

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE021815\
 Data File : BE089610.D
 Acq On : 18 Feb 2015 1:34
 Operator : TP/IZ
 Sample : SSTDICC0.2
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_E
 LabSampleId :
 SSTDICC0.2

Quant Time: Feb 18 05:39:04 2015
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIMPAH-BE021815.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Feb 18 05:28:48 2015
 Response via : Initial Calibration

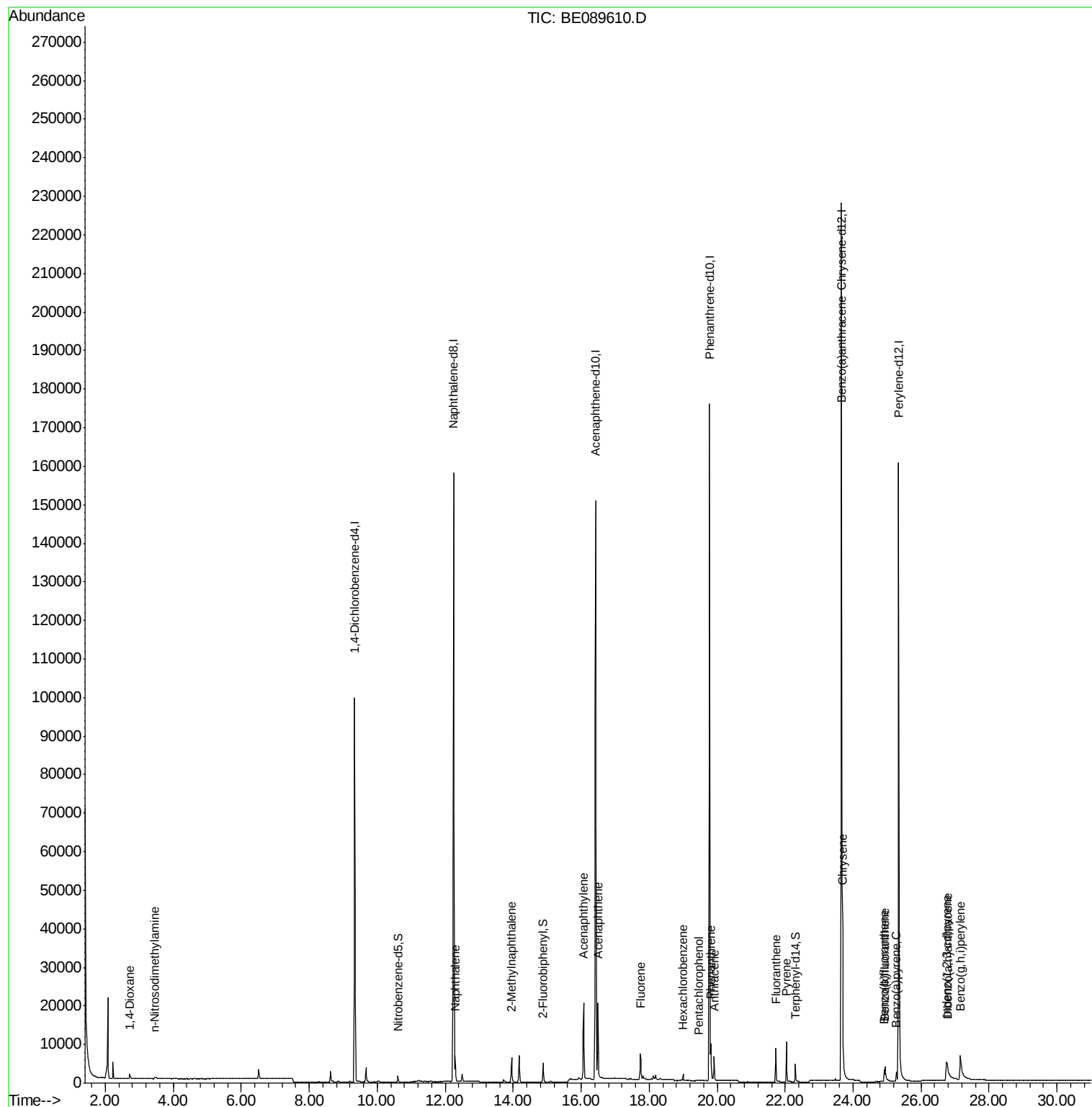
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.34	152	46301	5.00	ng	0.00
4) Naphthalene-d8	12.25	136	186162	5.00	ng	0.00
8) Acenaphthene-d10	16.43	164	90961	5.00	ng	0.00
13) Phenanthrene-d10	19.77	188	180750	5.00	ng	0.00
19) Chrysene-d12	23.66	240	174625	5.00	ng	0.00
25) Perylene-d12	25.34	264	150719	5.00	ng	0.00
System Monitoring Compounds						
5) Nitrobenzene-d5	10.61	82	1356	0.16	ng	0.00
9) 2-Fluorobiphenyl	14.88	172	4703	0.17	ng	0.00
21) Terphenyl-d14	22.30	244	4655	0.15	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.71	88	1066	0.17	ng	98
3) n-Nitrosodimethylamine	3.45	42	953	0.16	ng	# 82
6) Naphthalene	12.29	128	8159	0.18	ng	98
7) 2-Methylnaphthalene	13.95	142	4728	0.16	ng	99
10) Acenaphthylene	16.07	152	26114	0.15	ng	100
11) Acenaphthene	16.50	154	4564	0.16	ng	98
12) Fluorene	17.74	166	5079	0.16	ng	99
14) Hexachlorobenzene	19.00	284	1468	0.16	ng	# 92
15) Pentachlorophenol	19.45	266	215	0.08	ng	88
16) Phenanthrene	19.82	178	8572	0.16	ng	98
17) Anthracene	19.91	178	6416	0.15	ng	99
18) Fluoranthene	21.72	202	7149	0.16	ng	100
20) Pyrene	22.04	202	7767	0.14	ng	100
22) Benzo(a)anthracene	23.65	228	27270	0.15	ng	99
23) Chrysene	23.69	228	33521	0.16	ng	99
24) Indeno(1,2,3-cd)pyrene	26.75	276	16597	0.11	ng	99
26) Benzo(b)fluoranthene	24.91	252	3106	0.10	ng	97
27) Benzo(k)fluoranthene	24.94	252	7300	0.15	ng	96
28) Benzo(a)pyrene	25.27	252	3206	0.11	ng	# 94
29) Dibenzo(a,h)anthracene	26.77	278	3099	0.11	ng	# 88
30) Benzo(g,h,i)perylene	27.16	276	16852	0.12	ng	95

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

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 9.34 min Scan# 1300

Delta R.T. 0.00 min

Lab File: BE089610.D

Acq: 18 Feb 2015 1:34

Instrument :

BNA_E

LabSampleId :

SSTDIC0.2

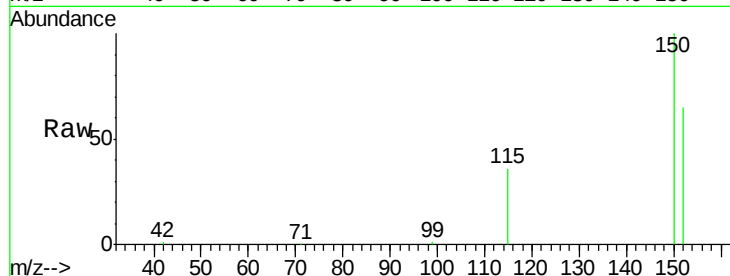
Tgt Ion: 152 Resp: 46301

Ion Ratio Lower Upper

152 100

150 153.1 122.4 183.6

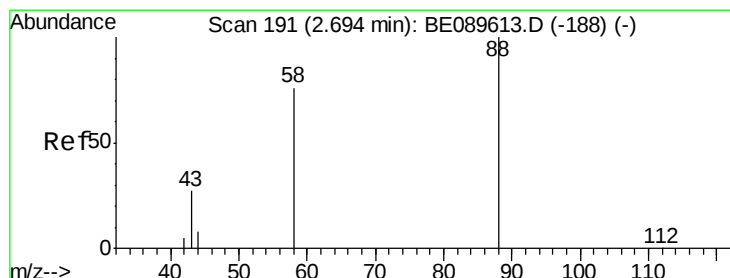
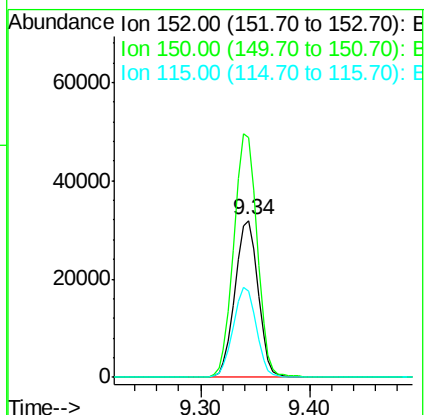
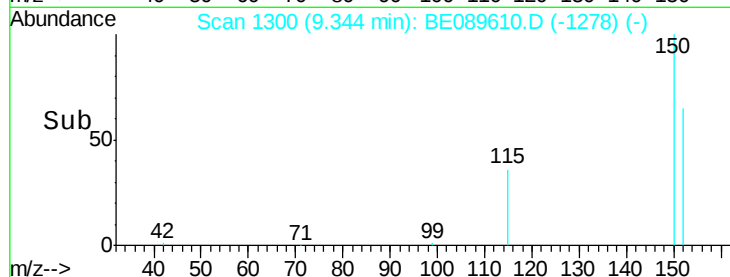
115 55.2 44.2 66.2



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: 0.17 ng

RT: 2.71 min Scan# 194

Delta R.T. 0.02 min

Lab File: BE089610.D

Acq: 18 Feb 2015 1:34

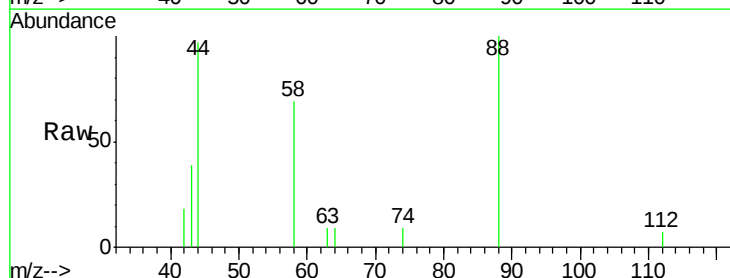
Tgt Ion: 88 Resp: 1066

Ion Ratio Lower Upper

88 100

58 69.4 54.6 81.8

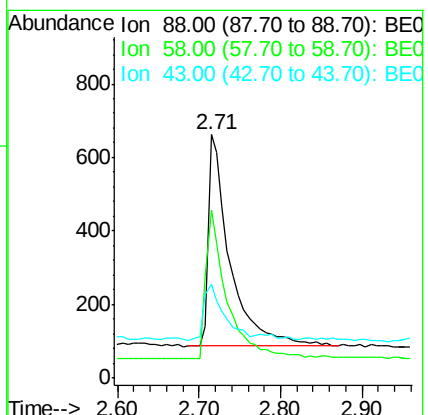
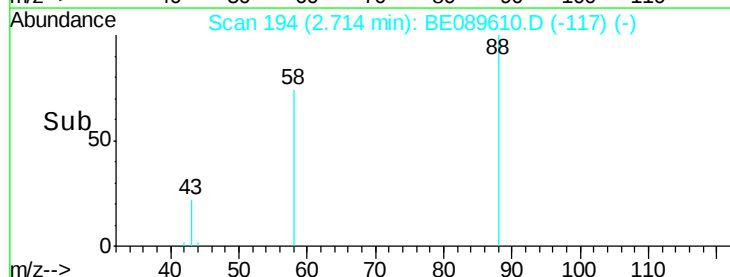
43 24.8 20.6 30.8

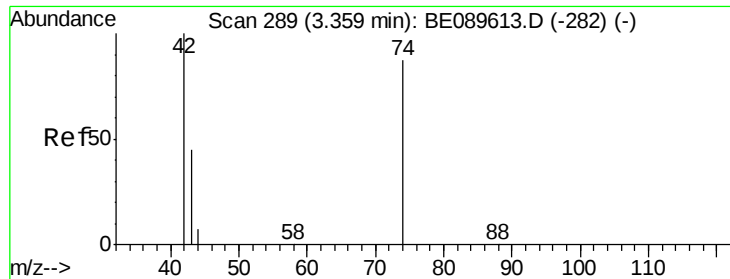


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0



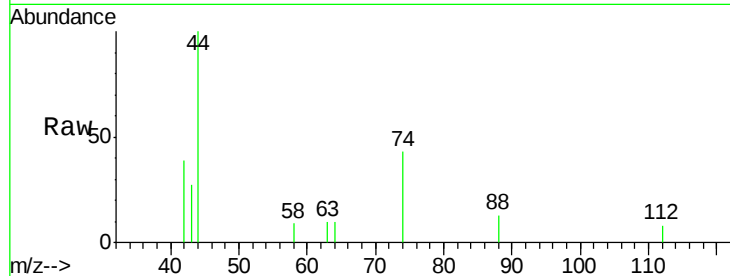


#3

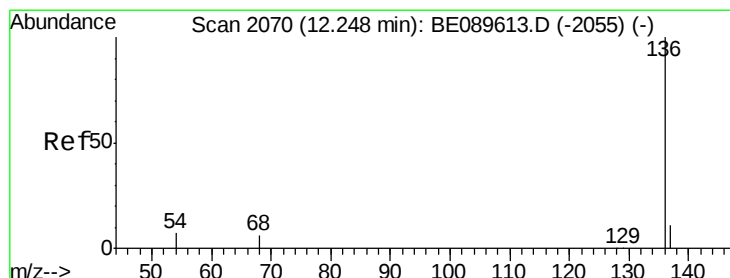
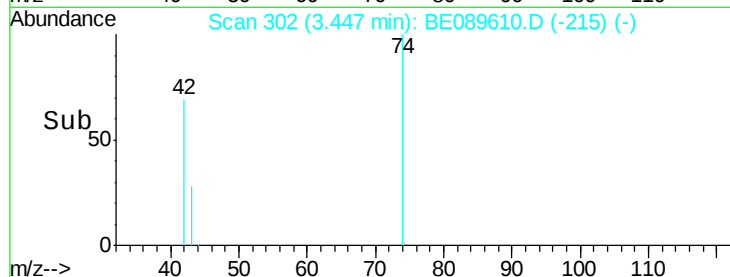
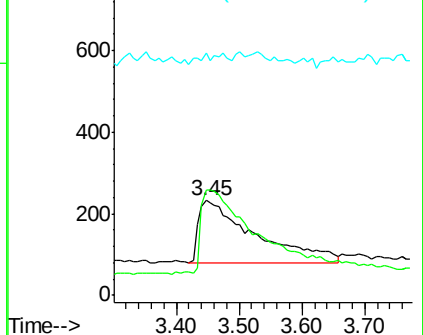
n-Nitrosodimethylamine
Concen: 0.16 ng
RT: 3.45 min Scan# 302
Delta R.T. 0.09 min
Lab File: BE089610.D
Acq: 18 Feb 2015 1:34

Instrument :
BNA_E
LabSampleId :
SSTDIC0.2

Tgt Ion: 42 Resp: 953
Ion Ratio Lower Upper
42 100
74 128.5 121.4 182.0
44 3.3 4.5 6.7#



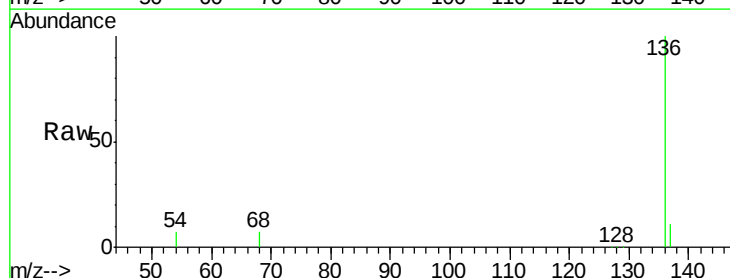
Abundance Ion 42.00 (41.70 to 42.70): BE0
Ion 74.00 (73.70 to 74.70): BE0
Ion 44.00 (43.70 to 44.70): BE0



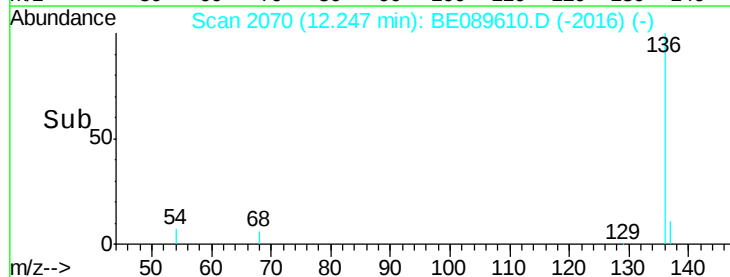
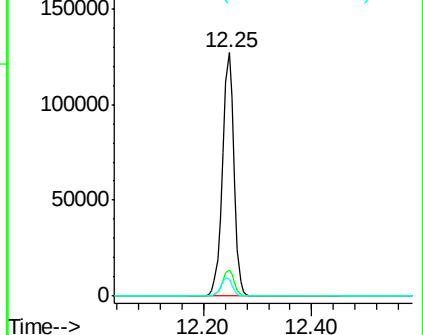
#4

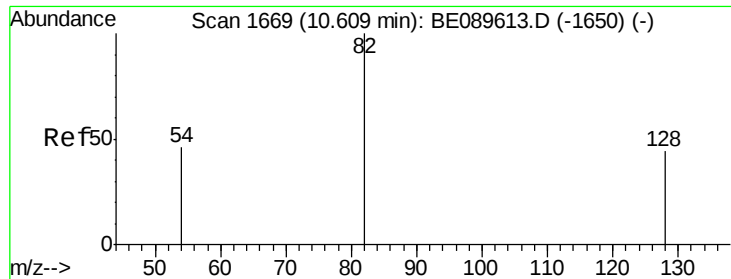
Naphthalene-d8
Concen: 5.00 ng
RT: 12.25 min Scan# 2070
Delta R.T. -0.00 min
Lab File: BE089610.D
Acq: 18 Feb 2015 1:34

Tgt Ion: 136 Resp: 186162
Ion Ratio Lower Upper
136 100
137 10.9 8.9 13.3
54 7.0 5.3 7.9



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





#5

Nitrobenzene-d5

Concen: 0.16 ng

RT: 10.61 min Scan# 1670

Delta R.T. 0.00 min

Lab File: BE089610.D

Acq: 18 Feb 2015 1:34

Instrument :

BNA_E

LabSampleId :

SSTDIC0.2

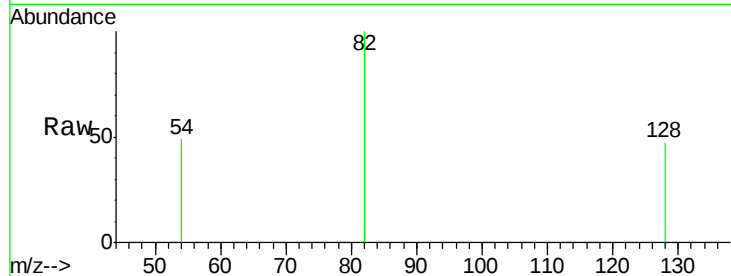
Tgt Ion: 82 Resp: 1356

Ion Ratio Lower Upper

82 100

128 47.0 35.5 53.3

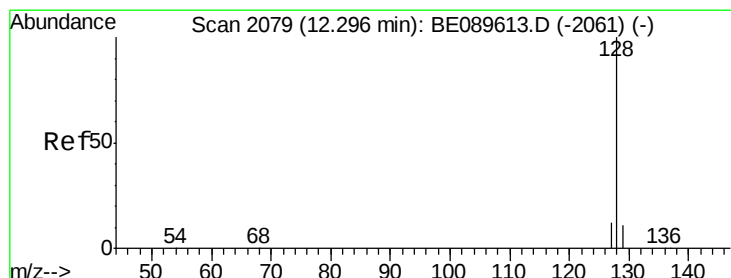
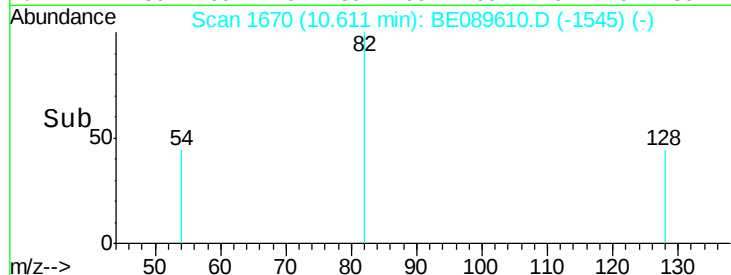
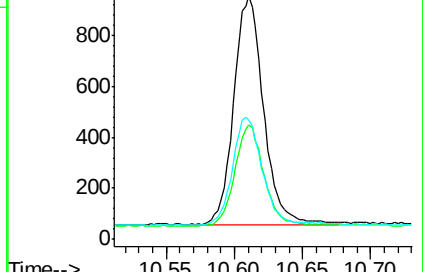
54 49.1 37.5 56.3



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



#6

Naphthalene

Concen: 0.18 ng

RT: 12.29 min Scan# 2079

Delta R.T. -0.00 min

Lab File: BE089610.D

Acq: 18 Feb 2015 1:34

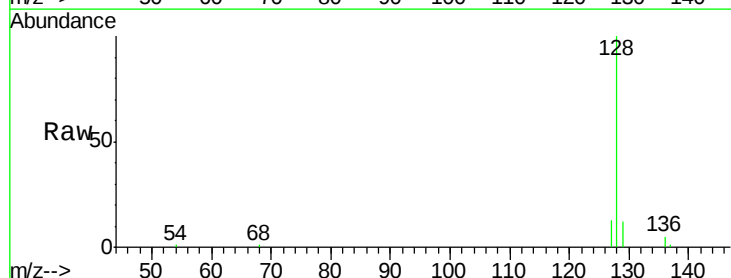
Tgt Ion: 128 Resp: 8159

Ion Ratio Lower Upper

128 100

129 12.1 8.9 13.3

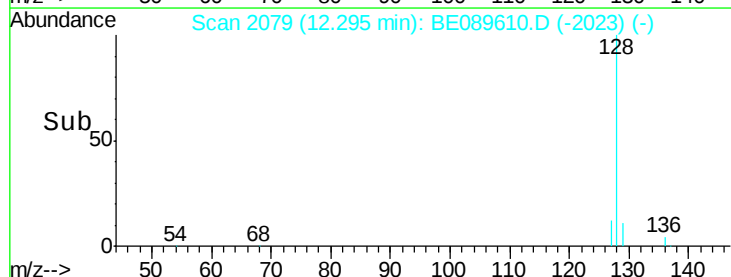
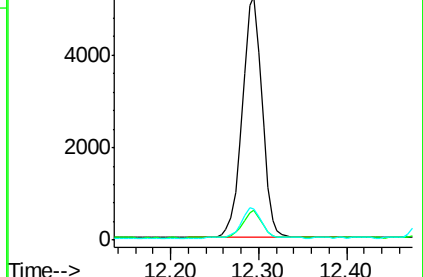
127 13.0 9.8 14.8



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





#7

2-Methylnaphthalene

Concen: 0.16 ng

RT: 13.95 min Scan# 2418

Delta R.T. 0.00 min

Lab File: BE089610.D

Acq: 18 Feb 2015 1:34

Instrument :

BNA_E

LabSampleId :

SSTDIC0.2

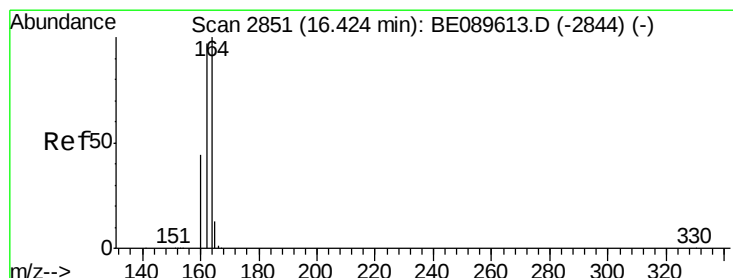
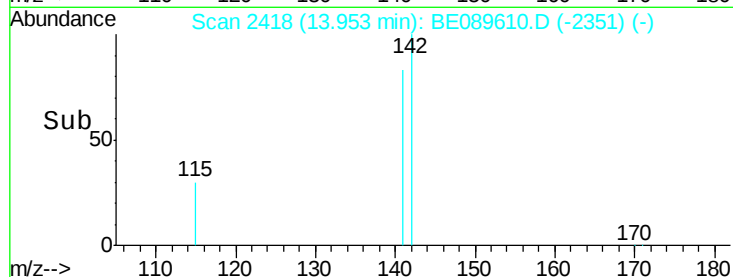
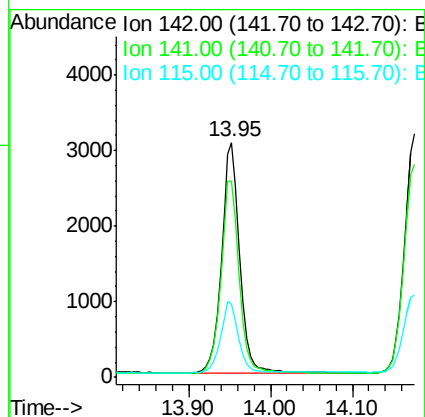
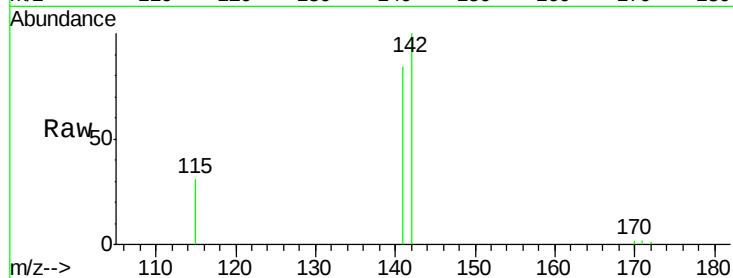
Tgt Ion:142 Resp: 4728

Ion Ratio Lower Upper

142 100

141 83.7 68.3 102.5

115 31.3 25.1 37.7



#8

Acenaphthene-d10

Concen: 5.00 ng

RT: 16.43 min Scan# 2852

Delta R.T. 0.00 min

Lab File: BE089610.D

Acq: 18 Feb 2015 1:34

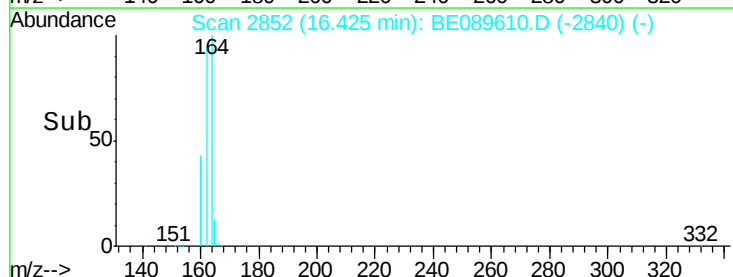
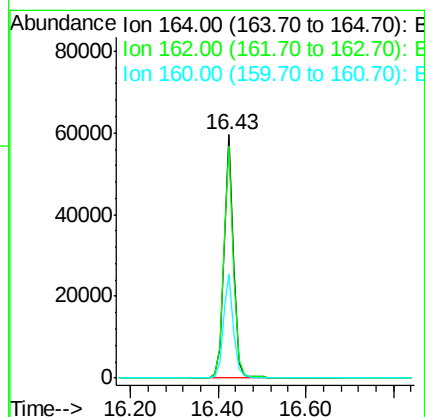
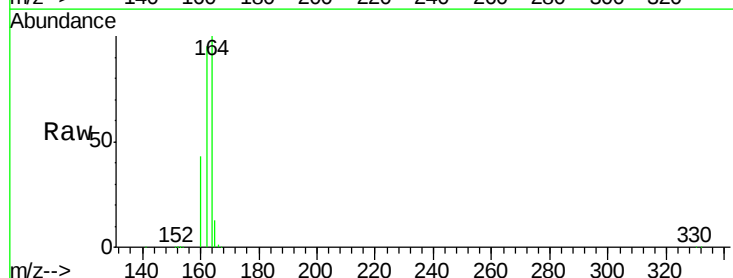
Tgt Ion:164 Resp: 90961

Ion Ratio Lower Upper

164 100

162 95.2 77.5 116.3

160 42.8 35.5 53.3





#9

2-Fluorobiphenyl

Concen: 0.17 ng

RT: 14.88 min Scan# 2622

Delta R.T. -0.00 min

Lab File: BE089610.D

Acq: 18 Feb 2015 1:34

Instrument :

BNA_E

LabSampleId :

SSTDIC0.2

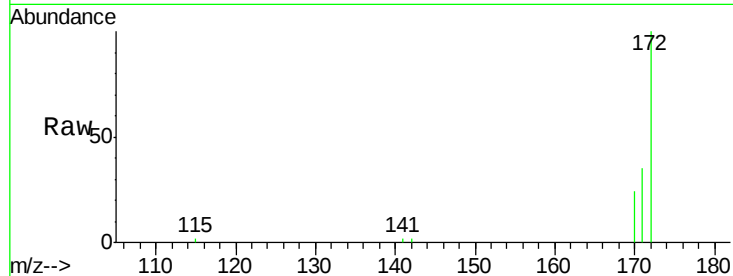
Tgt Ion:172 Resp: 4703

Ion Ratio Lower Upper

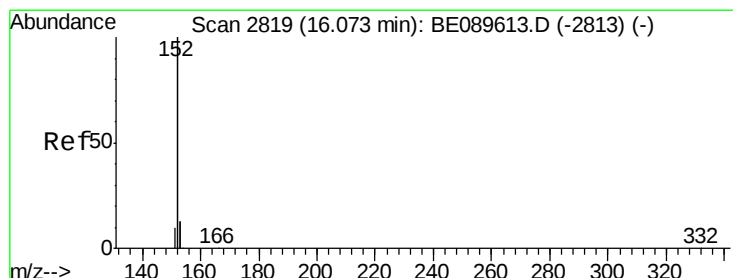
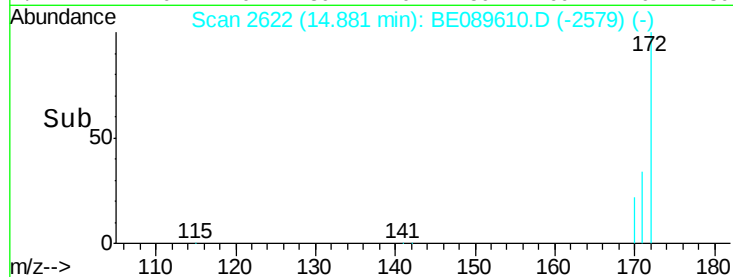
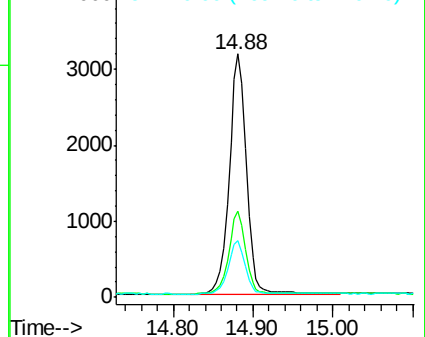
172 100

171 35.4 26.9 40.3

170 23.5 17.4 26.0



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



#10

Acenaphthylene

Concen: 0.15 ng

RT: 16.07 min Scan# 2820

Delta R.T. 0.00 min

Lab File: BE089610.D

Acq: 18 Feb 2015 1:34

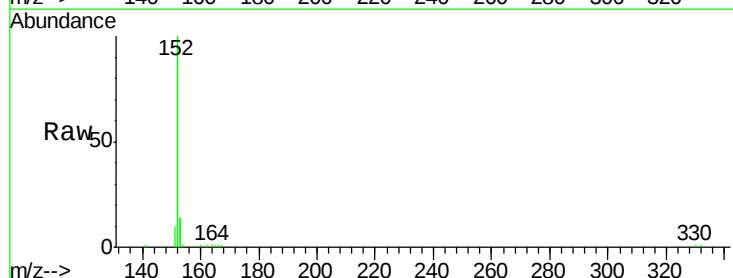
Tgt Ion:152 Resp: 26114

Ion Ratio Lower Upper

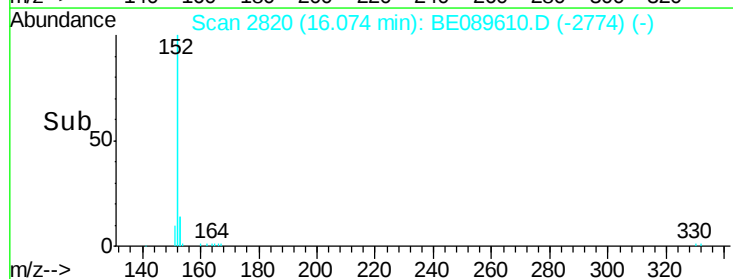
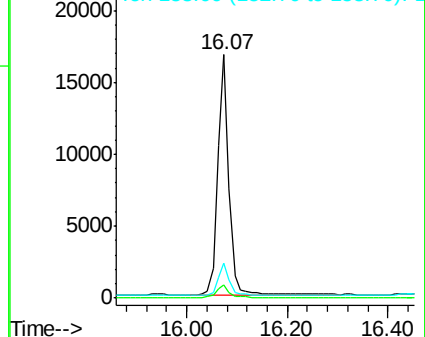
152 100

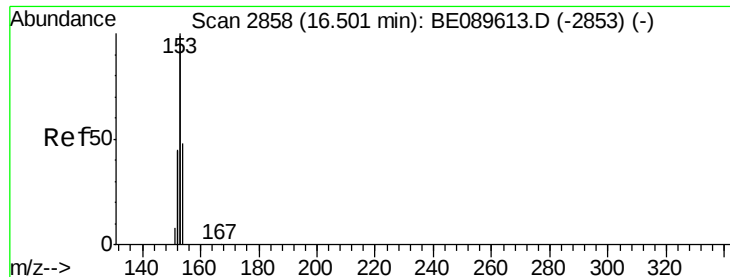
151 4.9 3.9 5.9

153 13.1 10.5 15.7



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





#11

Acenaphthene

Concen: 0.16 ng

RT: 16.50 min Scan# 2859

Delta R.T. 0.00 min

Lab File: BE089610.D

Acq: 18 Feb 2015 1:34

Instrument :

BNA_E

LabSampleId :

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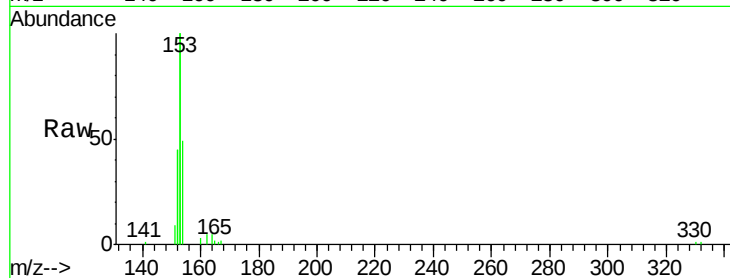
Tgt Ion:154 Resp: 4564

Ion Ratio Lower Upper

154 100

153 438.1 348.9 523.3

152 216.0 166.6 249.8



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

15000

10000

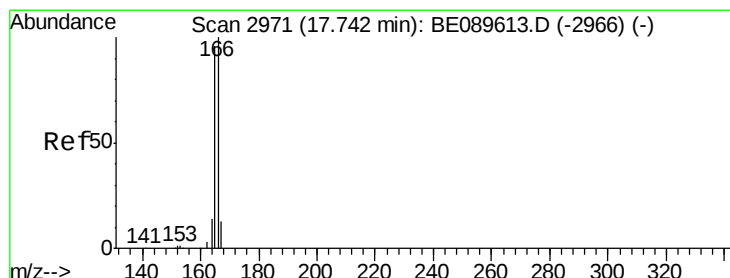
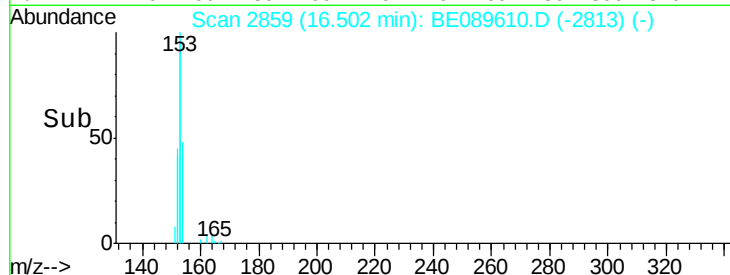
5000

0

16.50

Time-->

16.40 16.50 16.60 16.70



#12

Fluorene

Concen: 0.16 ng

RT: 17.74 min Scan# 2972

Delta R.T. 0.00 min

Lab File: BE089610.D

Acq: 18 Feb 2015 1:34

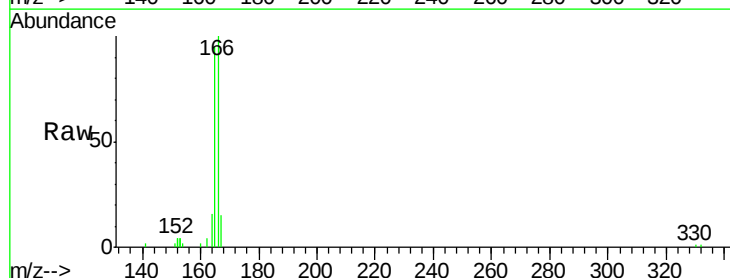
Tgt Ion:166 Resp: 5079

Ion Ratio Lower Upper

166 100

165 92.1 74.7 112.1

167 13.1 10.5 15.7



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

4000

3000

2000

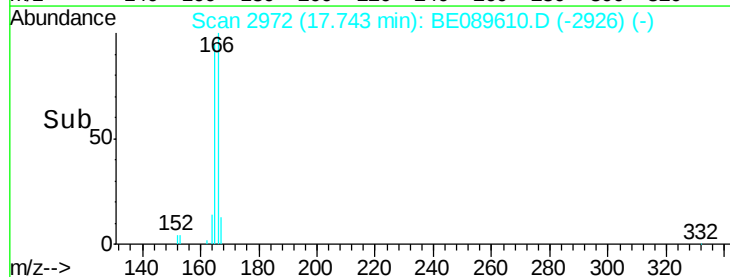
1000

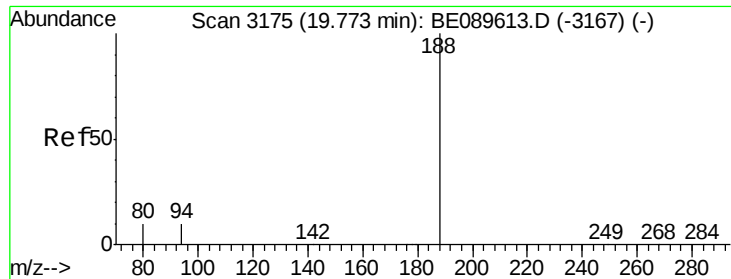
0

17.74

Time-->

17.60 17.80 18.00





#13

Phenanthrene-d10

Concen: 5.00 ng

RT: 19.77 min Scan# 3176

Delta R.T. -0.00 min

Lab File: BE089610.D

Acq: 18 Feb 2015 1:34

Instrument :

BNA_E

LabSampleId :

SSTDIC0.2

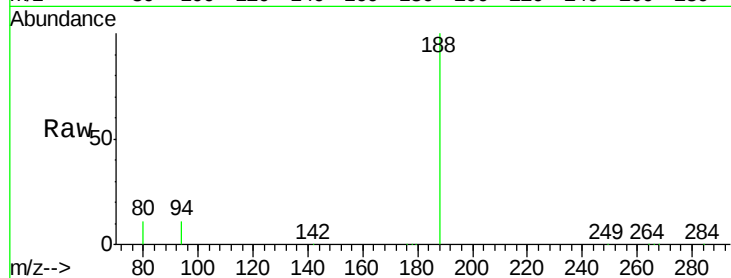
Tgt Ion:188 Resp: 180750

Ion Ratio Lower Upper

188 100

94 11.2 8.2 12.4

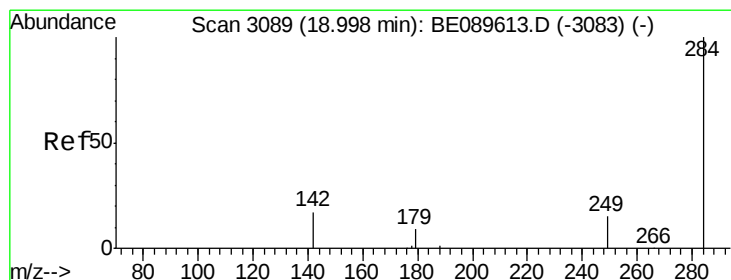
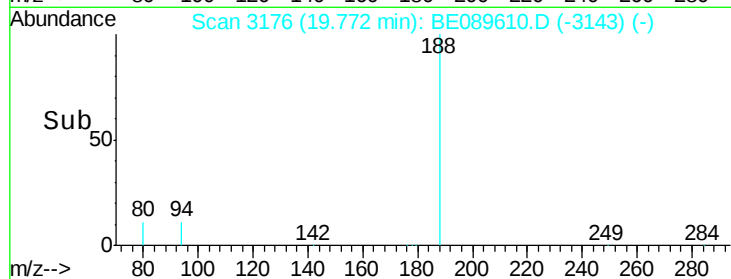
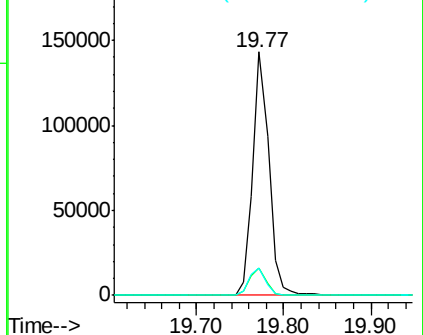
80 11.1 8.1 12.1



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



#14

Hexachlorobenzene

Concen: 0.16 ng

RT: 19.00 min Scan# 3090

Delta R.T. -0.00 min

Lab File: BE089610.D

Acq: 18 Feb 2015 1:34

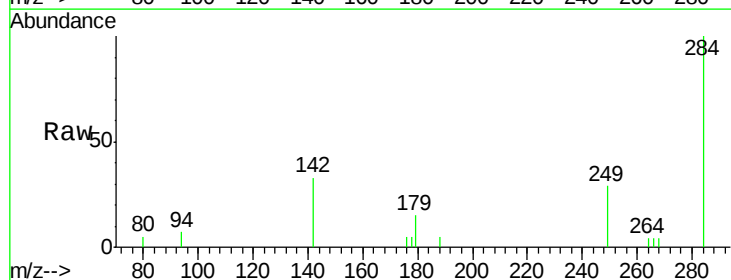
Tgt Ion:284 Resp: 1468

Ion Ratio Lower Upper

284 100

142 48.6 32.3 48.5#

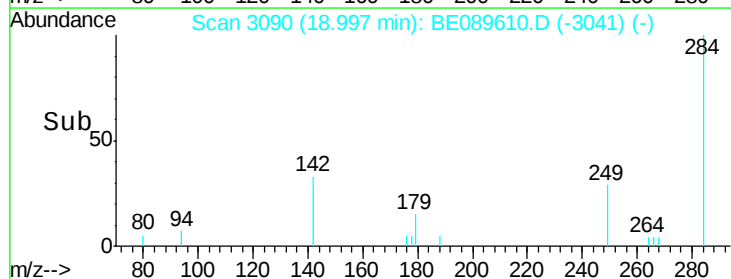
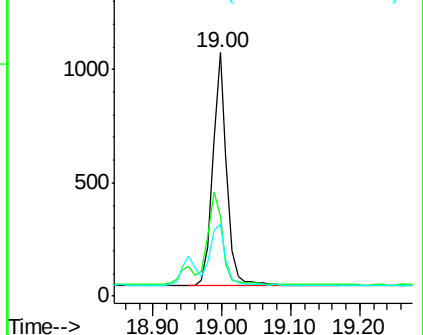
249 28.6 22.3 33.5



Abundance Ion 283.80 (283.50 to 284.50): E

Ion 142.00 (141.70 to 142.70): E

Ion 249.00 (248.70 to 249.70): E

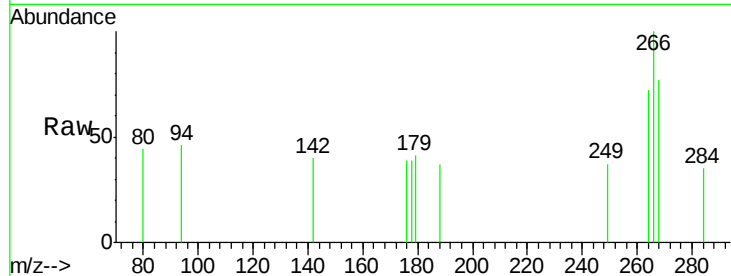




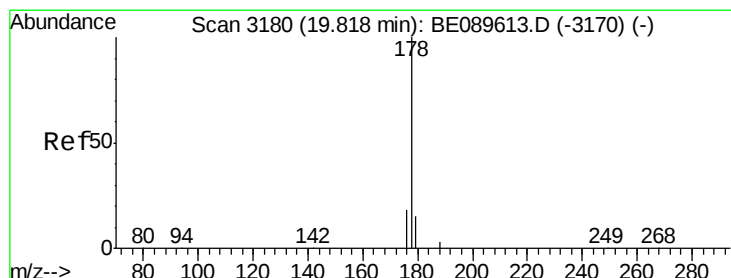
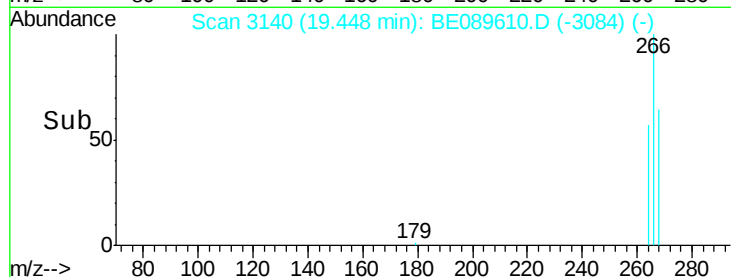
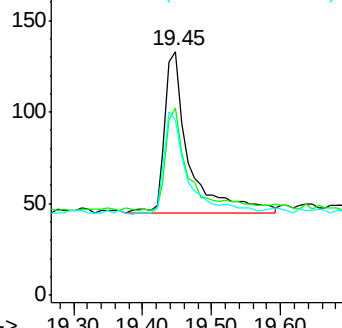
#15
 Pentachlorophenol
 Concen: 0.08 ng
 RT: 19.45 min Scan# 3140
 Delta R.T. 0.01 min
 Lab File: BE089610.D
 Acq: 18 Feb 2015 1:34

Instrument :
 BNA_E
 LabSampleId :
 SSTDICC0.2

Tgt Ion: 266 Resp: 215
 Ion Ratio Lower Upper
 266 100
 268 76.7 52.6 79.0
 264 72.2 51.8 77.8

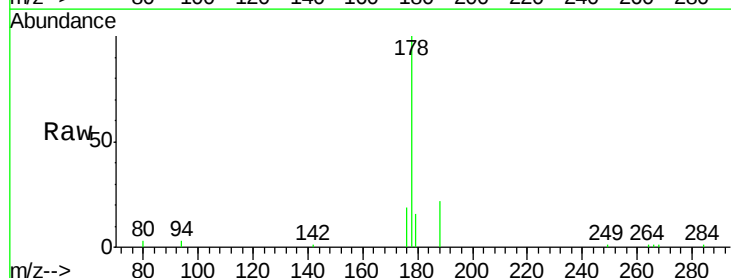


Abundance Ion 265.70 (265.40 to 266.40): E
 Ion 268.00 (267.70 to 268.70): E
 Ion 264.00 (263.70 to 264.70): E

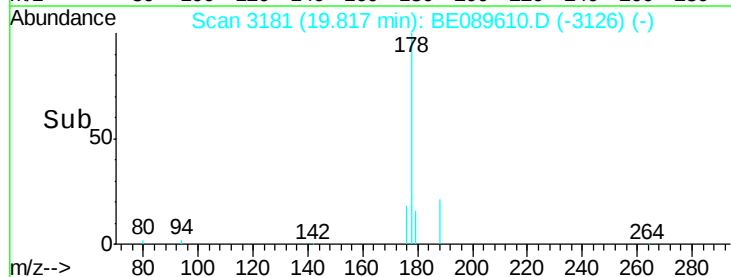
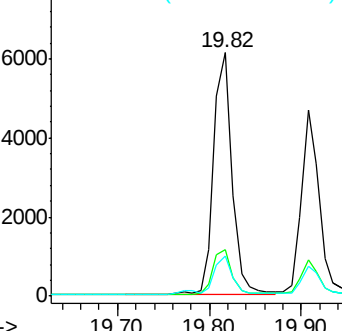


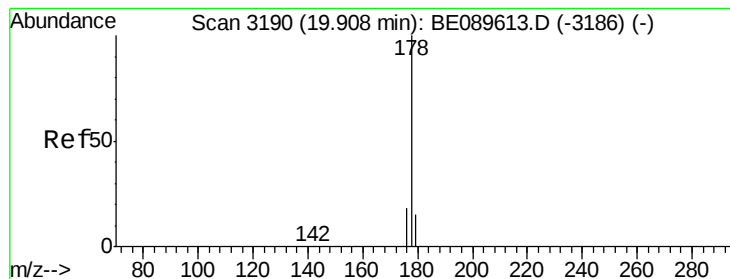
#16
 Phenanthrene
 Concen: 0.16 ng
 RT: 19.82 min Scan# 3181
 Delta R.T. -0.00 min
 Lab File: BE089610.D
 Acq: 18 Feb 2015 1:34

Tgt Ion: 178 Resp: 8572
 Ion Ratio Lower Upper
 178 100
 176 18.8 15.1 22.7
 179 16.7 12.3 18.5



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





#17

Anthracene

Concen: 0.15 ng

RT: 19.91 min Scan# 3191

Delta R.T. -0.00 min

Lab File: BE089610.D

Acq: 18 Feb 2015 1:34

Instrument :

BNA_E

LabSampleId :

SSTDIC0.2

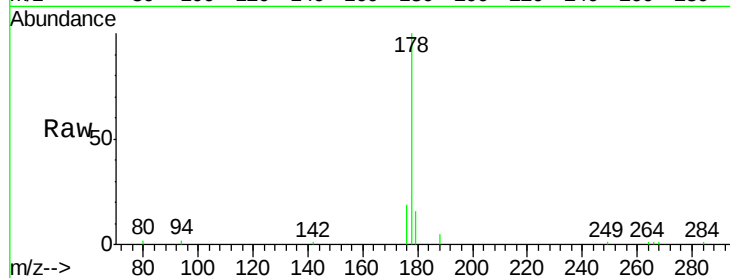
Tgt Ion:178 Resp: 6416

Ion Ratio Lower Upper

178 100

176 18.1 14.6 22.0

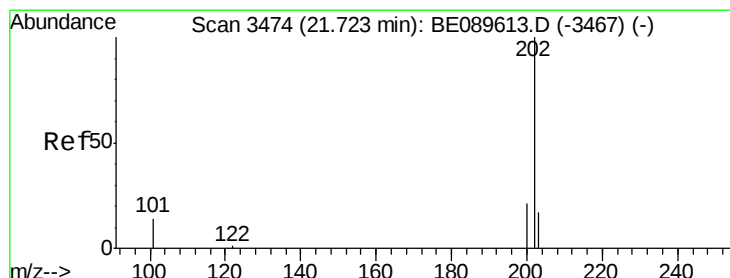
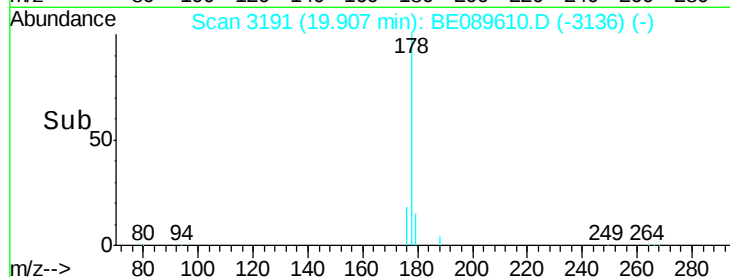
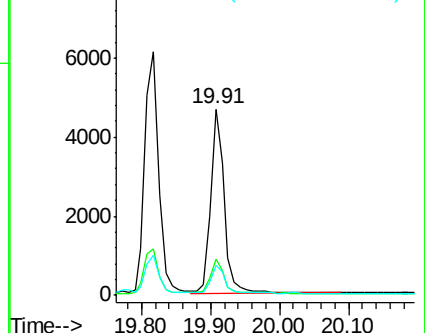
179 15.0 12.3 18.5



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



#18

Fluoranthene

Concen: 0.16 ng

RT: 21.72 min Scan# 3476

Delta R.T. 0.00 min

Lab File: BE089610.D

Acq: 18 Feb 2015 1:34

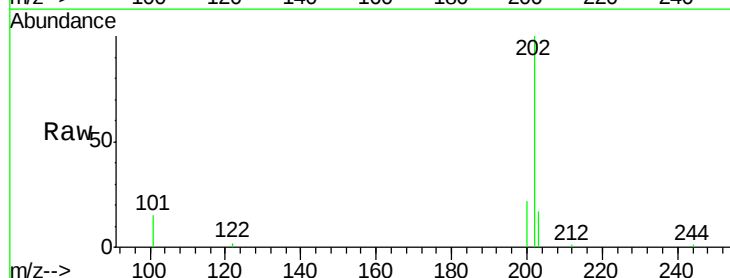
Tgt Ion:202 Resp: 7149

Ion Ratio Lower Upper

202 100

101 13.2 10.4 15.6

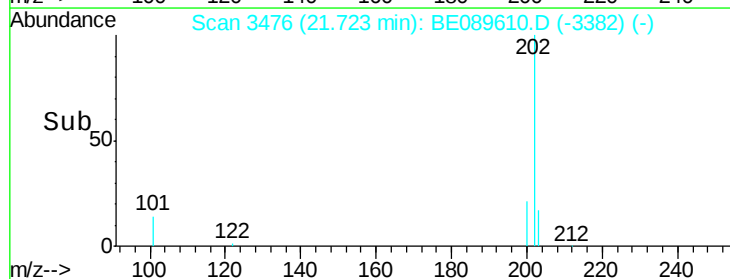
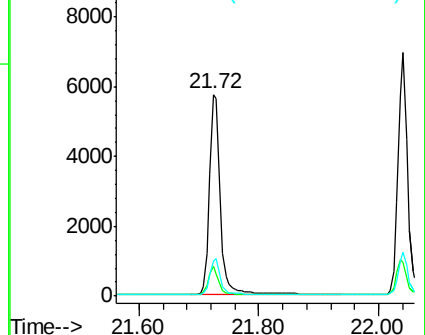
203 17.3 13.9 20.9

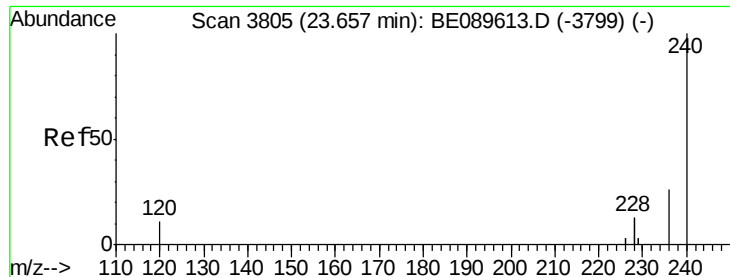


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#19

Chrysene-d12

Concen: 5.00 ng

RT: 23.66 min Scan# 3807

Delta R.T. 0.00 min

Lab File: BE089610.D

Acq: 18 Feb 2015 1:34

Instrument :

BNA_E

LabSampleId :

SSTDIC0.2

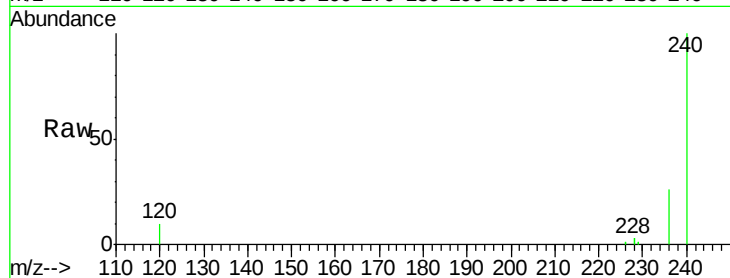
Tgt Ion:240 Resp: 174625

Ion Ratio Lower Upper

240 100

120 10.1 9.0 13.4

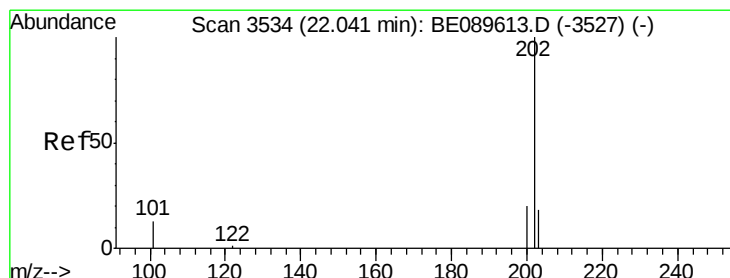
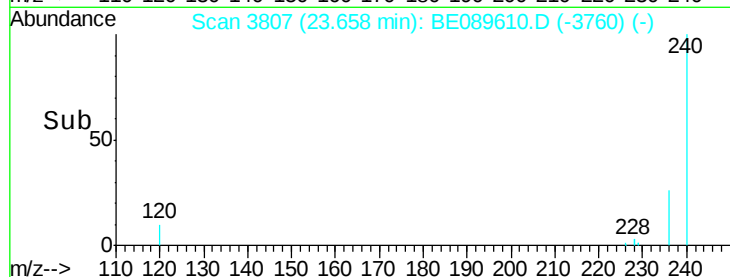
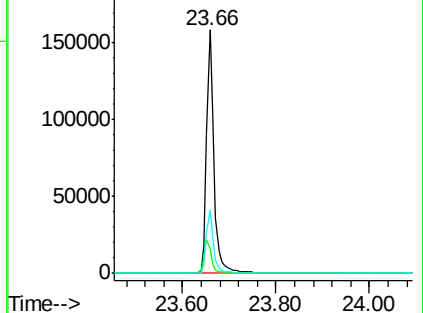
236 25.8 21.0 31.6



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



#20

Pyrene

Concen: 0.14 ng

RT: 22.04 min Scan# 3536

Delta R.T. 0.00 min

Lab File: BE089610.D

Acq: 18 Feb 2015 1:34

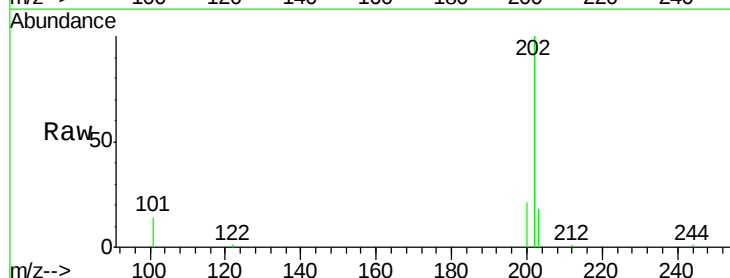
Tgt Ion:202 Resp: 7767

Ion Ratio Lower Upper

202 100

200 20.4 16.3 24.5

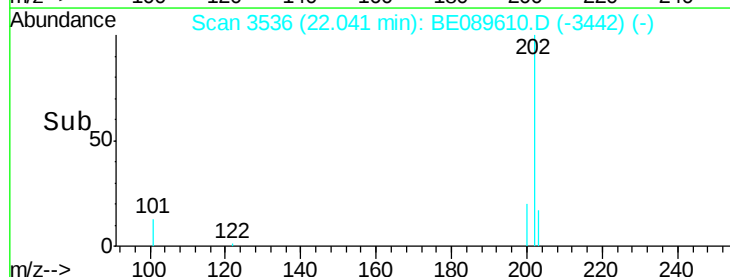
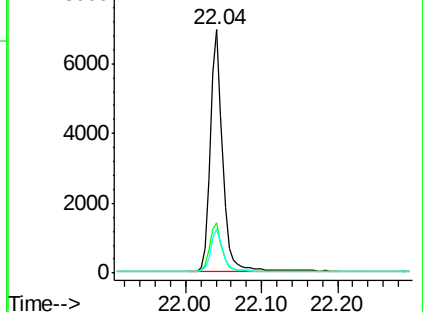
203 17.2 13.8 20.8



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





#21

Terphenyl-d14

Concen: 0.15 ng

RT: 22.30 min Scan# 3585

Delta R.T. 0.00 min

Lab File: BE089610.D

Acq: 18 Feb 2015 1:34

Instrument :

BNA_E

LabSampleId :

SSTDIC0.2

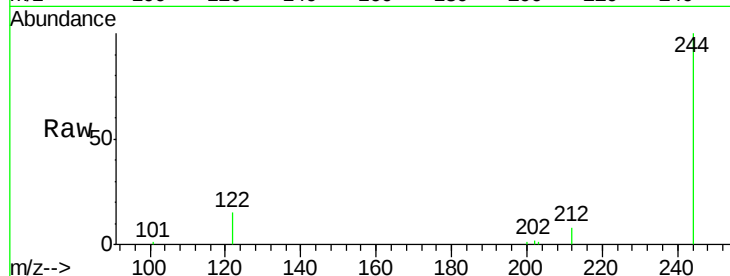
Tgt Ion:244 Resp: 4655

Ion Ratio Lower Upper

244 100

212 8.4 5.8 8.8

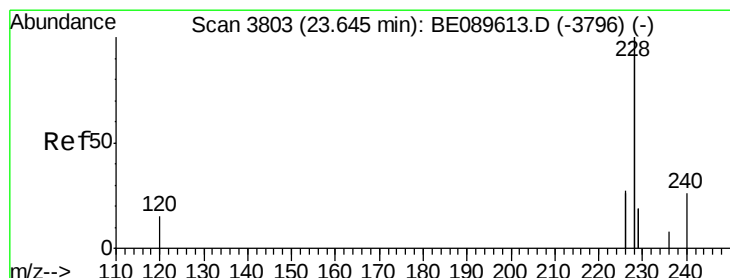
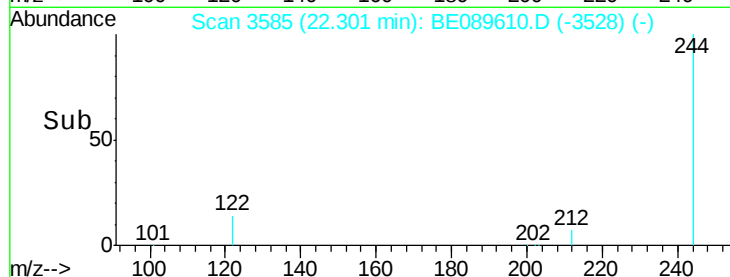
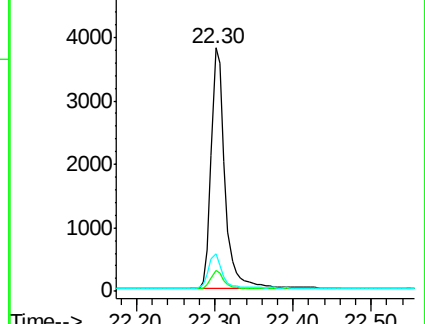
122 15.2 11.8 17.8



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



#22

Benzo(a)anthracene

Concen: 0.15 ng

RT: 23.65 min Scan# 3805

Delta R.T. 0.00 min

Lab File: BE089610.D

Acq: 18 Feb 2015 1:34

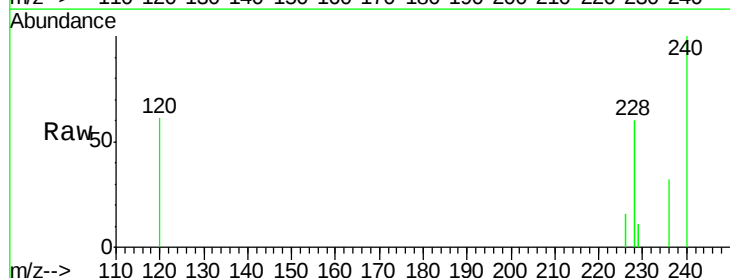
Tgt Ion:228 Resp: 27270

Ion Ratio Lower Upper

228 100

226 27.5 21.2 31.8

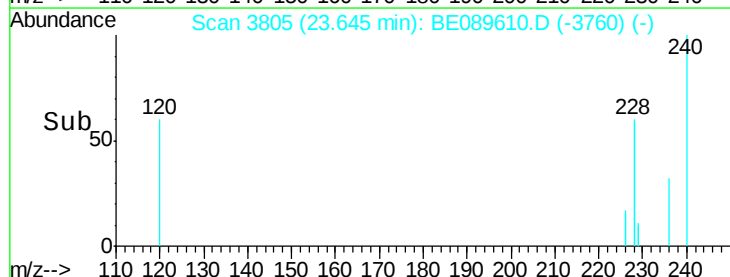
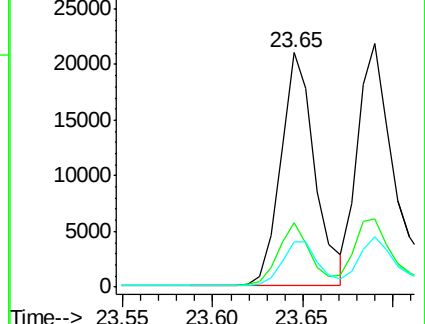
229 19.1 15.2 22.8



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





#23

Chrysene

Concen: 0.16 ng

RT: 23.69 min Scan# 3812

Delta R.T. 0.00 min

Lab File: BE089610.D

Acq: 18 Feb 2015 1:34

Instrument :

BNA_E

LabSampleId :

SSTDIC0.2

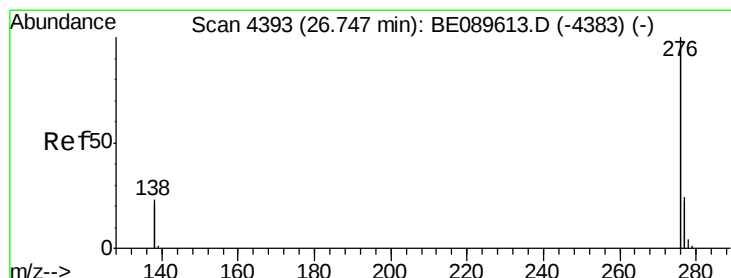
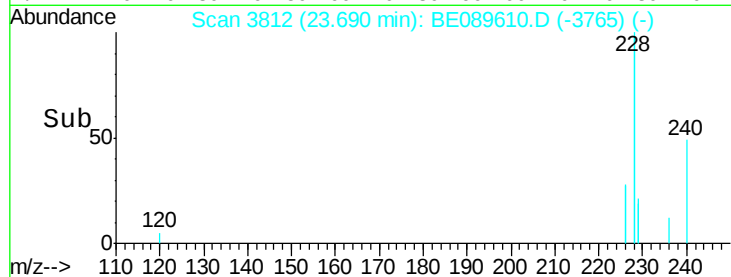
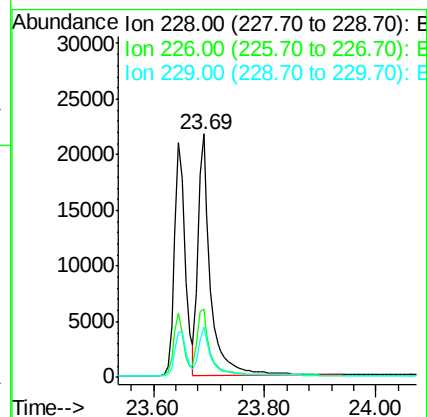
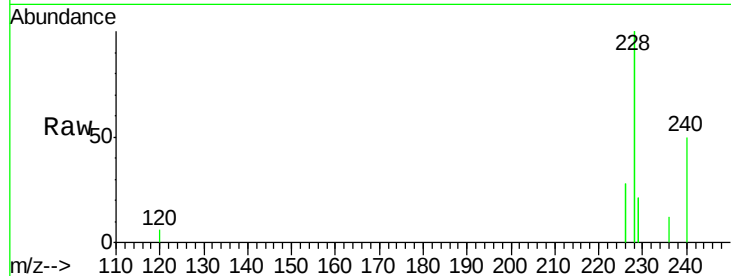
Tgt Ion:228 Resp: 33521

Ion Ratio Lower Upper

228 100

226 28.2 22.2 33.4

229 20.7 16.0 24.0



#24

Indeno(1,2,3-cd)pyrene

Concen: 0.11 ng

RT: 26.75 min Scan# 4395

Delta R.T. 0.00 min

Lab File: BE089610.D

Acq: 18 Feb 2015 1:34

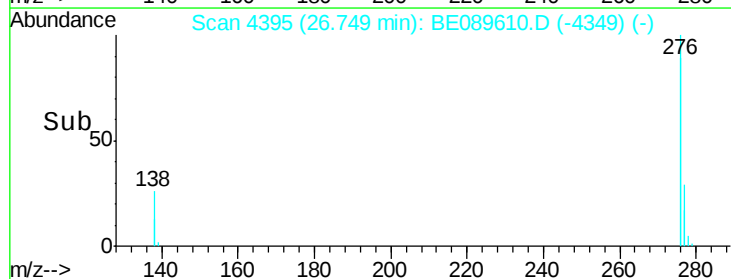
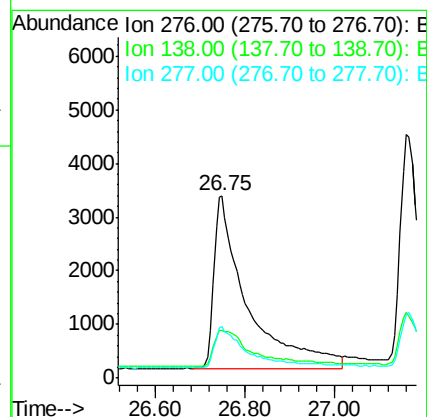
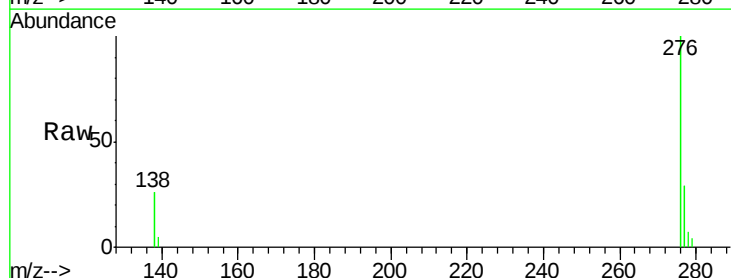
Tgt Ion:276 Resp: 16597

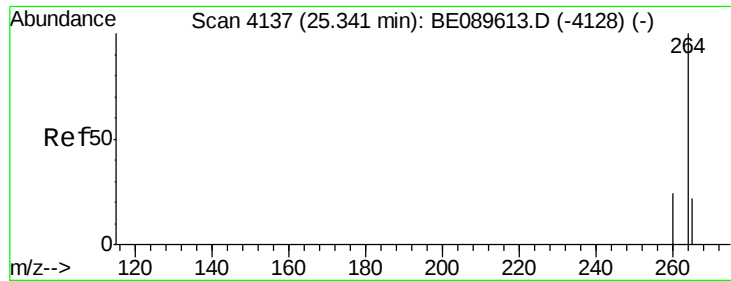
Ion Ratio Lower Upper

276 100

138 25.8 21.4 32.2

277 24.6 19.9 29.9

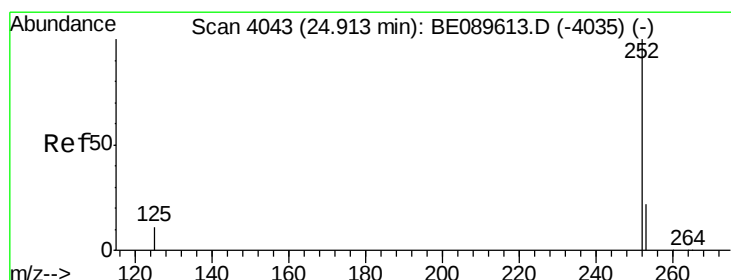
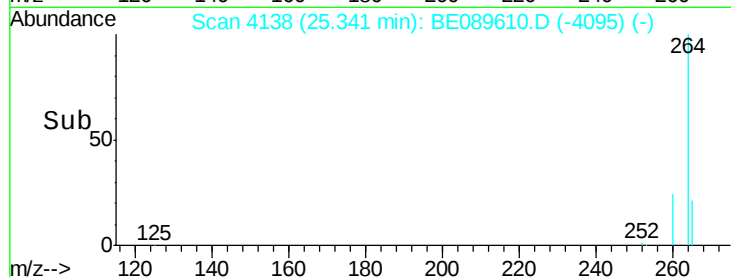
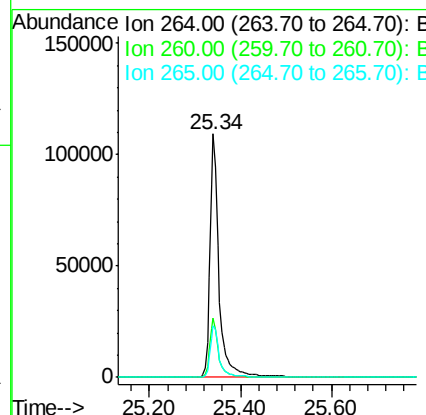
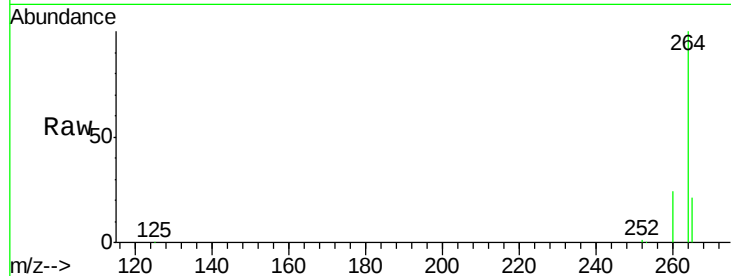




#25
Perylene-d12
Concen: 5.00 ng
RT: 25.34 min Scan# 4138
Delta R.T. -0.00 min
Lab File: BE089610.D
Acq: 18 Feb 2015 1:34

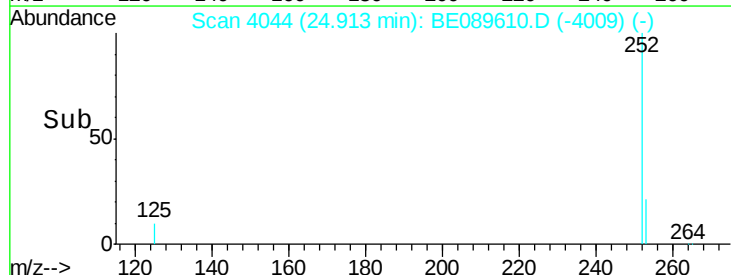
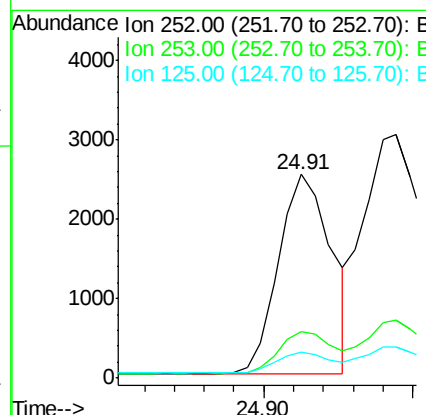
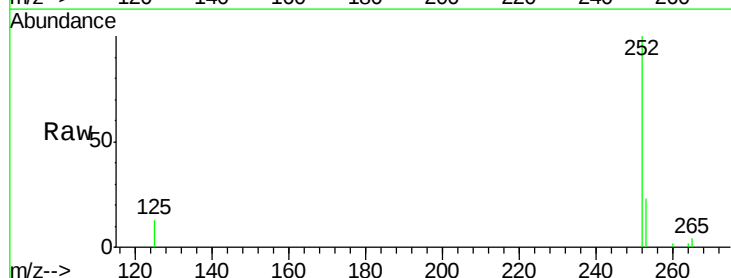
Instrument :
BNA_E
LabSampleId :
SSTDIC0.2

Tgt Ion: 264 Resp: 150719
Ion Ratio Lower Upper
264 100
260 24.3 19.0 28.6
265 21.4 17.4 26.0



#26
Benzo(b)fluoranthene
Concen: 0.10 ng
RT: 24.91 min Scan# 4044
Delta R.T. -0.00 min
Lab File: BE089610.D
Acq: 18 Feb 2015 1:34

Tgt Ion: 252 Resp: 3106
Ion Ratio Lower Upper
252 100
253 23.1 17.6 26.4
125 12.8 8.8 13.2





#27

Benzo(k)fluoranthene

Concen: 0.15 ng

RT: 24.94 min Scan# 4051

Delta R.T. -0.00 min

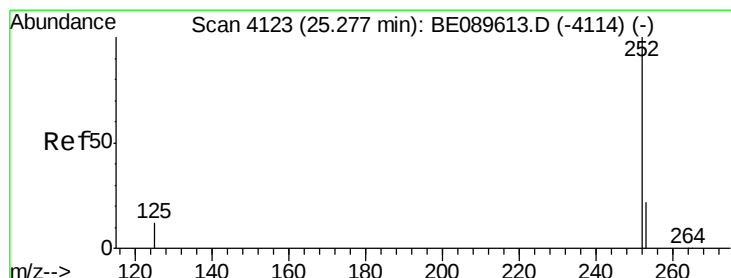
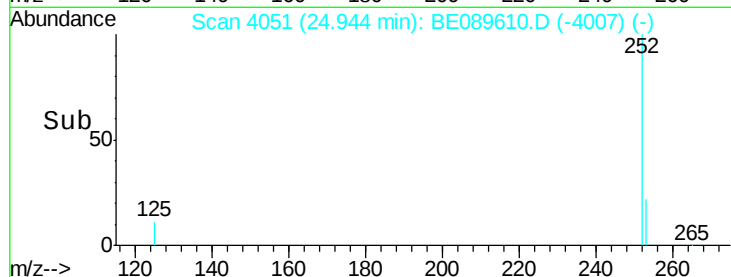
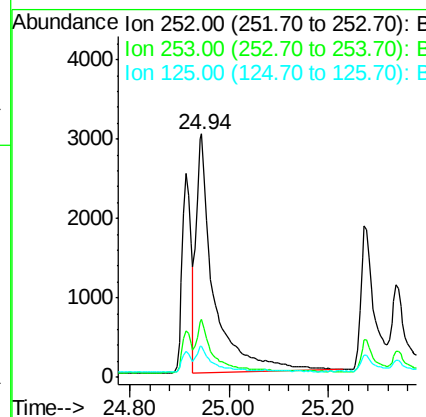
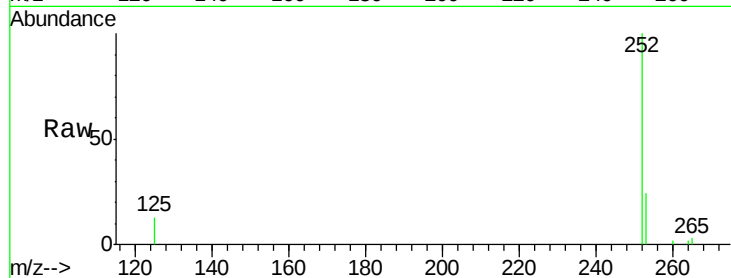
Lab File: BE089610.D

Acq: 18 Feb 2015 1:34

Instrument :
BNA_E
LabSampleId :
SSTDIC0.2

Tgt Ion:252 Resp: 7300

Ion	Ratio	Lower	Upper
252	100		
253	23.7	17.7	26.5
125	12.5	8.8	13.2



#28

Benzo(a)pyrene

Concen: 0.11 ng

RT: 25.27 min Scan# 4123

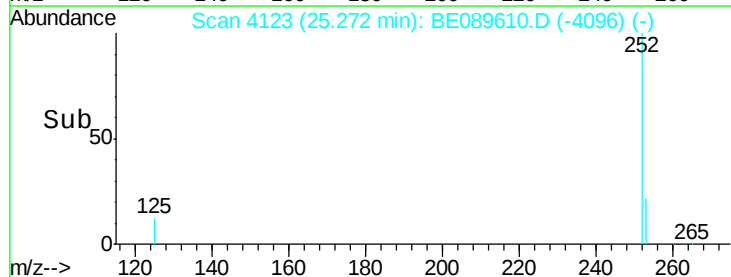
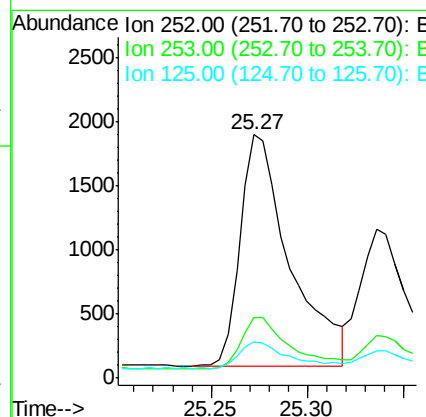
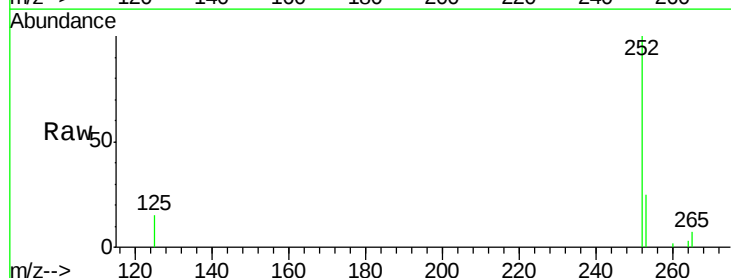
Delta R.T. -0.00 min

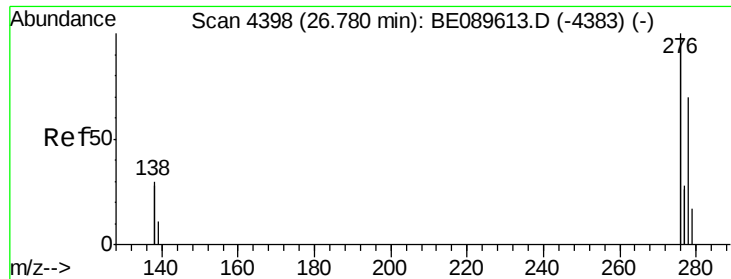
Lab File: BE089610.D

Acq: 18 Feb 2015 1:34

Tgt Ion:252 Resp: 3206

Ion	Ratio	Lower	Upper
252	100		
253	24.7	18.1	27.1
125	15.1	9.6	14.4#





#29

Dibenzo(a,h)anthracene

Concen: 0.11 ng

RT: 26.77 min Scan# 4399

Delta R.T. -0.01 min

Lab File: BE089610.D

Acq: 18 Feb 2015 1:34

Instrument :

BNA_E

LabSampleId :

SSTDIC0.2

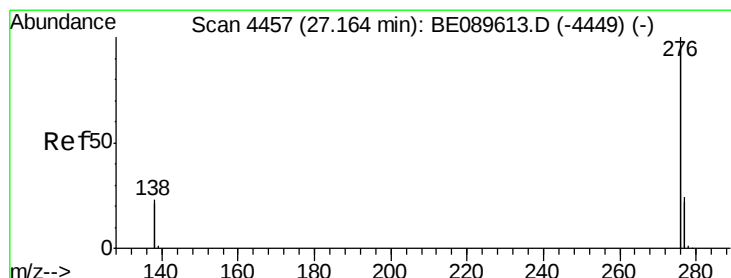
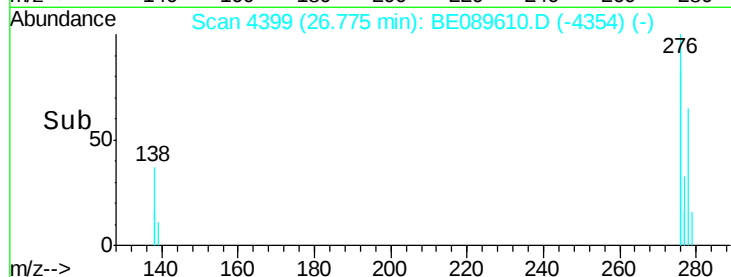
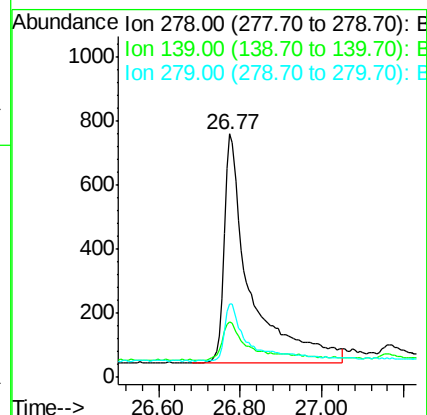
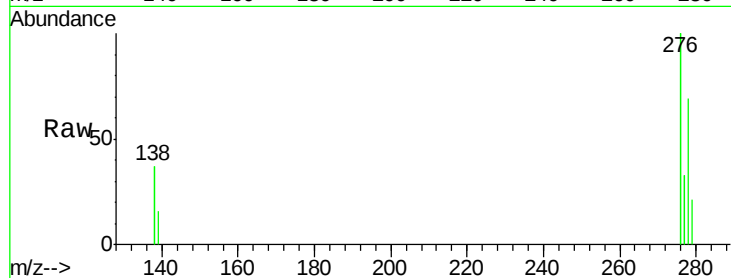
Tgt Ion: 278 Resp: 3099

Ion Ratio Lower Upper

278 100

139 22.8 13.7 20.5#

279 30.3 19.7 29.5#



#30

Benzo(g,h,i)perylene

Concen: 0.12 ng

RT: 27.16 min Scan# 4458

Delta R.T. -0.01 min

Lab File: BE089610.D

Acq: 18 Feb 2015 1:34

Tgt Ion: 276 Resp: 16852

Ion Ratio Lower Upper

276 100

277 25.7 19.1 28.7

138 26.8 18.7 28.1

