

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE013015\
 Data File : BE089440.D
 Acq On : 30 Jan 2015 10:07
 Operator : TP/IZ
 Sample : SSTDICC010
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_E
 LabSampleId :
 SSTDICC010

Quant Time: Jan 31 04:45:58 2015
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIMPAH-BE013015.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Jan 31 04:33:09 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.59	152	87336	5.00	ng	0.00
2) Naphthalene-d8	12.50	136	367719	5.00	ng	0.00
6) Acenaphthene-d10	16.70	164	172073	5.00	ng	0.00
11) Phenanthrene-d10	19.99	188	302394	5.00	ng	0.00
16) Chrysene-d12	23.84	240	268070	5.00	ng	0.00
22) Perylene-d12	25.55	264	258704	5.00	ng	0.00

System Monitoring Compounds						
3) Nitrobenzene-d5	10.86	82	256096	13.49	ng	0.00
7) 2-Fluorobiphenyl	15.14	172	412051	10.54	ng	0.00
18) Terphenyl-d14	22.48	244	361148	10.40	ng	0.00

Target Compounds					Qvalue	
4) Naphthalene	12.55	128	784693	11.13	ng	99
5) 2-Methylnaphthalene	14.21	142	489868	11.14	ng	96
8) Acenaphthylene	16.35	152	2831420	11.67	ng	100
9) Acenaphthene	16.76	154	408169	10.61	ng	100
10) Fluorene	18.02	166	459740	11.44	ng	99
12) Pentachlorophenol	19.66	266	33691	9.22	ng	92
13) Phenanthrene	20.04	178	2564828	9.91	ng	100
14) Anthracene	20.12	178	2522870	10.67	ng	100
15) Fluoranthene	21.92	202	599446	11.65	ng	100
17) Pyrene	22.23	202	619712	9.23	ng	99
19) Benzo(a)anthracene	23.83	228	2156277	11.92	ng	99
20) Chrysene	23.88	228	2129972	9.38	ng	95
21) Indeno(1,2,3-cd)pyrene	27.06	276	2569366	20.38	ng	100
23) Benzo(b)fluoranthene	25.10	252	477427	15.78	ng	97
24) Benzo(k)fluoranthene	25.13	252	611168	11.66	ng	99
25) Benzo(a)pyrene	25.49	252	478406	15.56	ng	99
26) Dibenzo(a,h)anthracene	27.10	278	544436	21.30	ng	97
27) Benzo(g,h,i)perylene	27.52	276	2149928	14.36	ng	96

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



#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 9.59 min Scan# 1795

Delta R.T. -0.00 min

Lab File: BE089440.D

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SSTDIC010

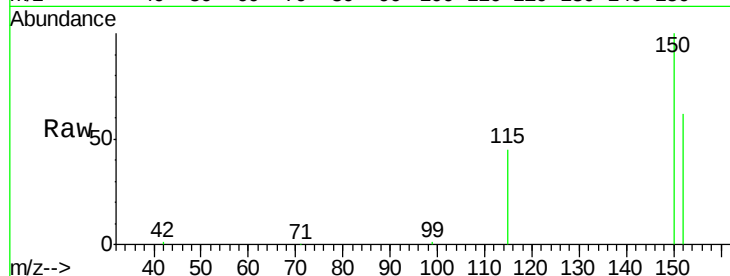
Tgt Ion:152 Resp: 87336

Ion Ratio Lower Upper

152 100

150 160.5 127.2 190.8

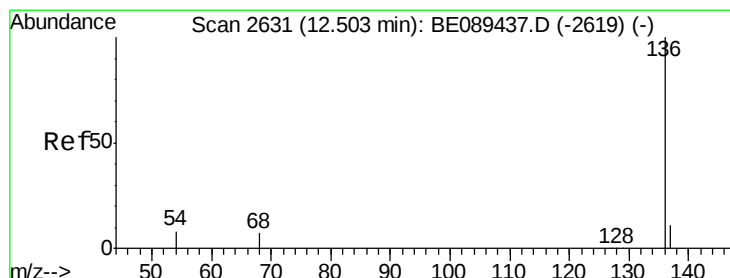
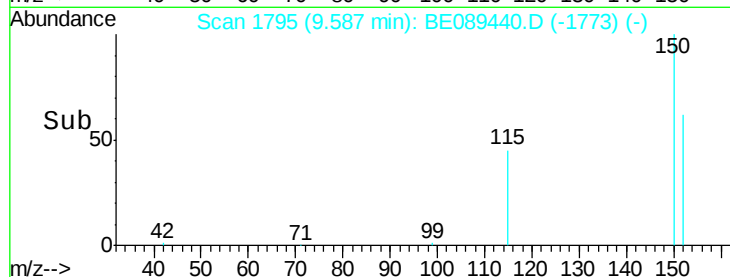
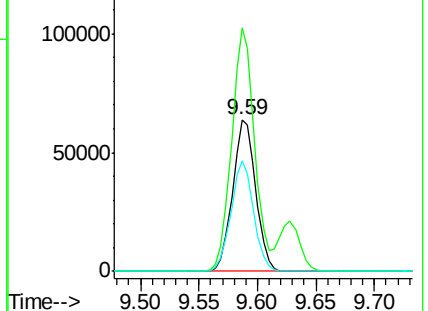
115 73.0 57.5 86.3



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

Naphthalene-d8

Concen: 5.00 ng

RT: 12.50 min Scan# 2631

Delta R.T. 0.00 min

Lab File: BE089440.D

Acq: 30 Jan 2015 10:07

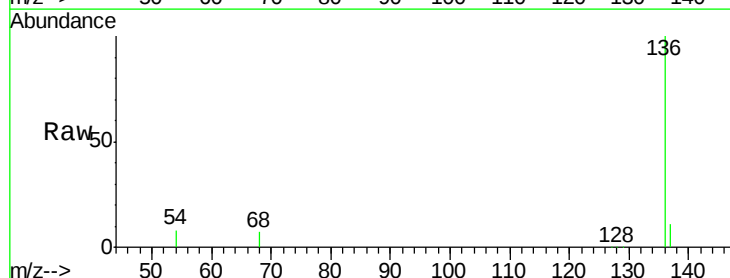
Tgt Ion:136 Resp: 367719

Ion Ratio Lower Upper

136 100

137 10.7 8.7 13.1

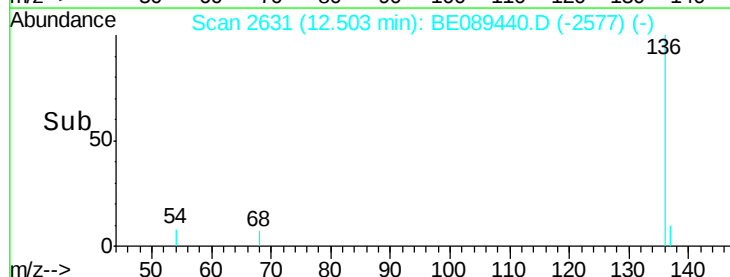
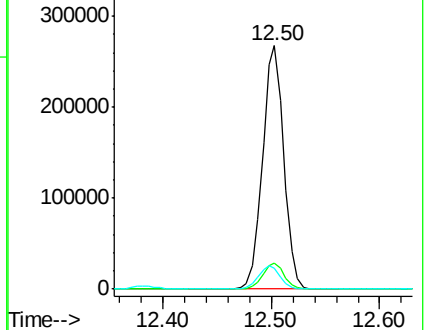
54 8.4 6.6 10.0



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





#3

Nitrobenzene-d5

Concen: 13.49 ng

RT: 10.86 min Scan# 2227

Delta R.T. 0.00 min

Lab File: BE089440.D

Acq: 30 Jan 2015 10:07

Instrument :

BNA_E

LabSampleId :

SSTDIC010

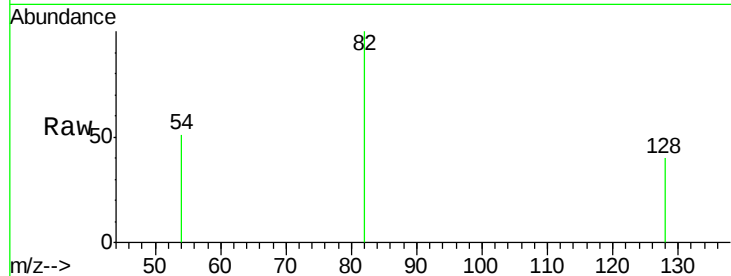
Tgt Ion: 82 Resp: 256096

Ion Ratio Lower Upper

82 100

128 39.9 31.2 46.8

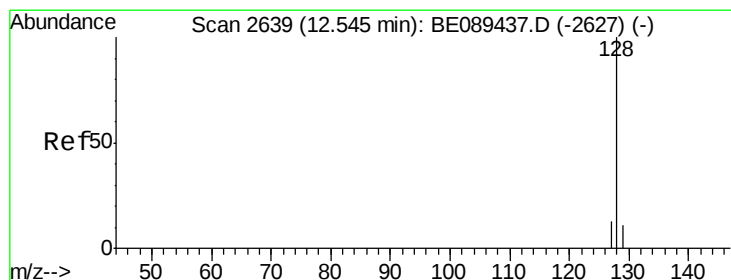
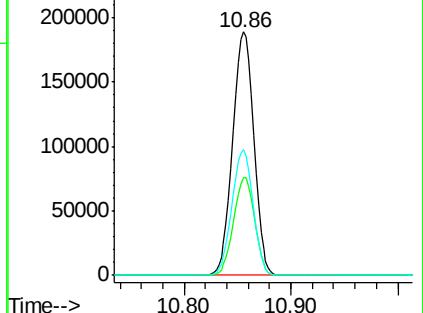
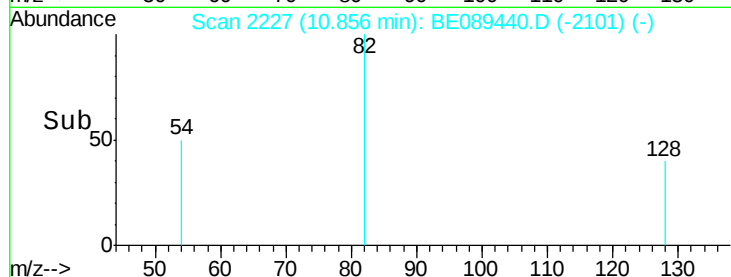
54 51.4 41.9 62.9



Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): BE0

Ion 54.00 (53.70 to 54.70): BE0



#4

Naphthalene

Concen: 11.13 ng

RT: 12.55 min Scan# 2640

Delta R.T. 0.01 min

Lab File: BE089440.D

Acq: 30 Jan 2015 10:07

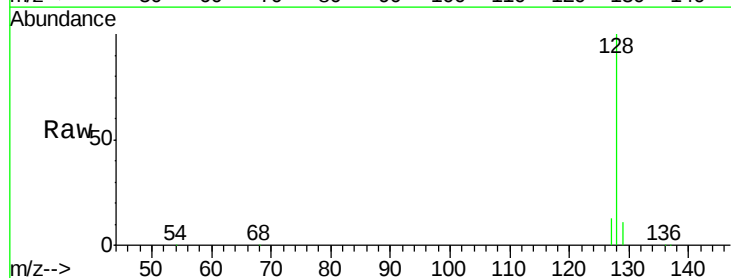
Tgt Ion: 128 Resp: 784693

Ion Ratio Lower Upper

128 100

129 11.1 8.8 13.2

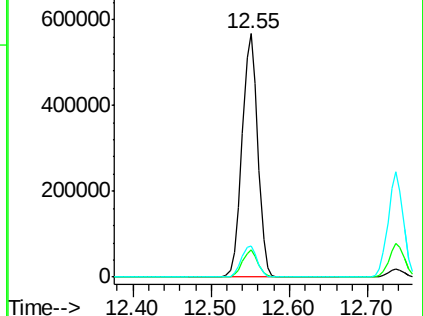
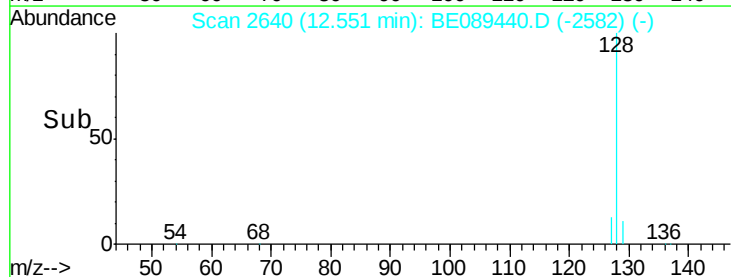
127 12.9 10.6 16.0



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E





#5

2-Methylnaphthalene

Concen: 11.14 ng

RT: 14.21 min Scan# 2977

Delta R.T. -0.00 min

Lab File: BE089440.D

Acq: 30 Jan 2015 10:07

Instrument :

BNA_E

LabSampleId :

SSTDIC010

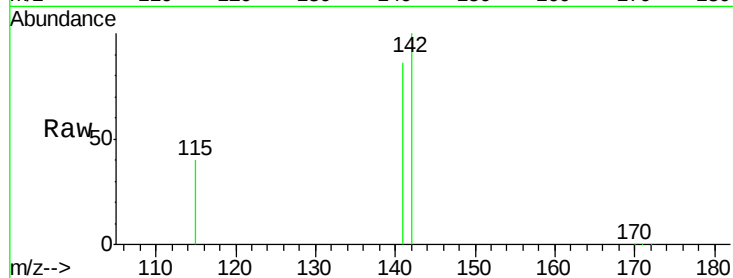
Tgt Ion:142 Resp: 489868

Ion Ratio Lower Upper

142 100

141 86.3 66.1 99.1

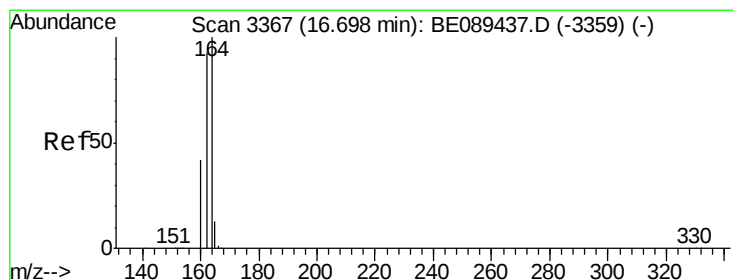
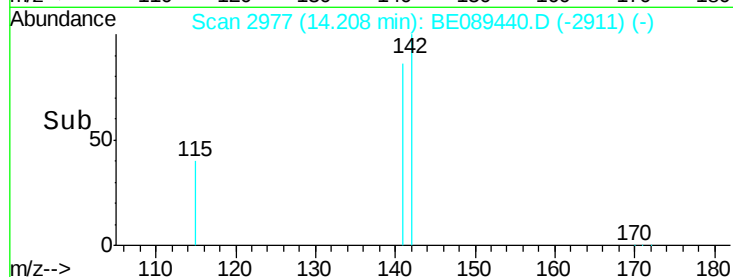
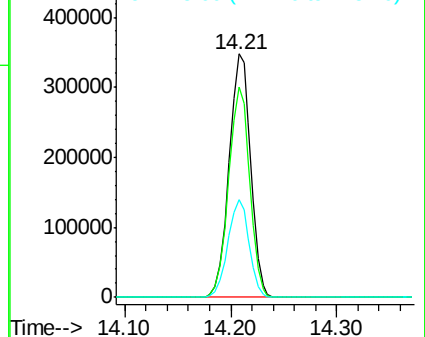
115 40.3 29.9 44.9



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E



#6

Acenaphthene-d10

Concen: 5.00 ng

RT: 16.70 min Scan# 3367

Delta R.T. 0.00 min

Lab File: BE089440.D

Acq: 30 Jan 2015 10:07

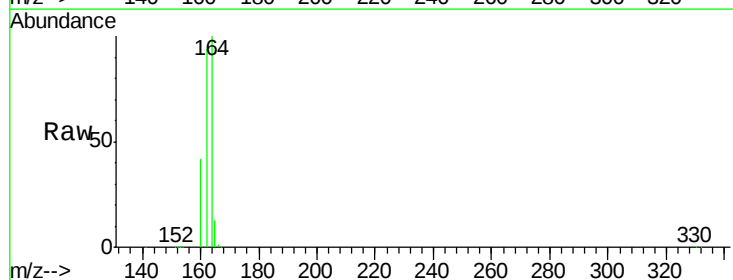
Tgt Ion:164 Resp: 172073

Ion Ratio Lower Upper

164 100

162 93.6 74.7 112.1

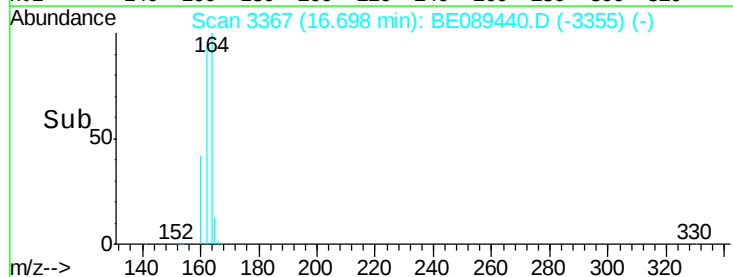
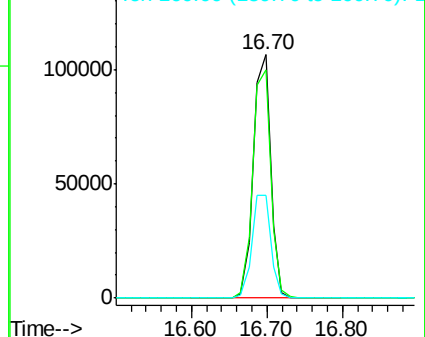
160 42.4 33.4 50.0



Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#7

2-Fluorobiphenyl

Concen: 10.54 ng

RT: 15.14 min Scan# 3181

Delta R.T. -0.00 min

Lab File: BE089440.D

Acq: 30 Jan 2015 10:07

Instrument :

BNA_E

LabSampleId :

SSTDIC010

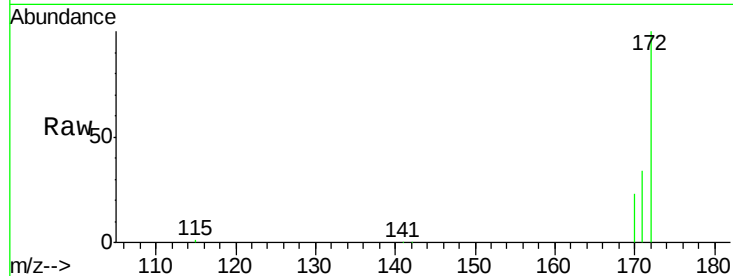
Tgt Ion:172 Resp: 412051

Ion Ratio Lower Upper

172 100

171 34.0 26.2 39.4

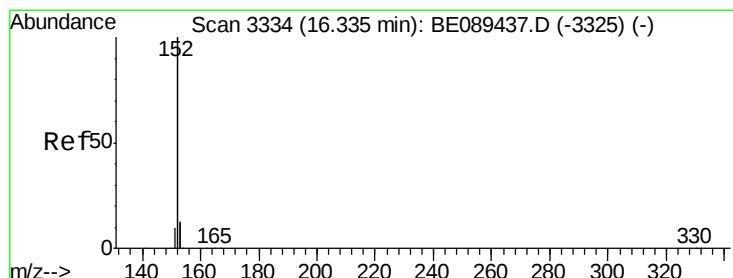
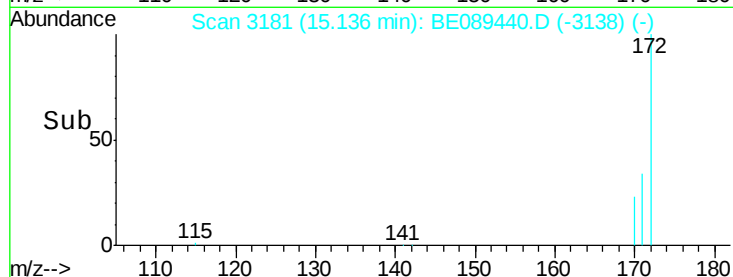
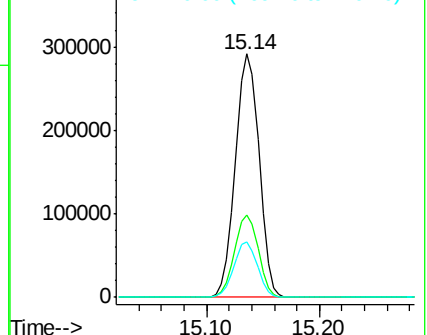
170 22.5 16.5 24.7



Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E



#8

Acenaphthylene

Concen: 11.67 ng

RT: 16.35 min Scan# 3335

Delta R.T. 0.01 min

Lab File: BE089440.D

Acq: 30 Jan 2015 10:07

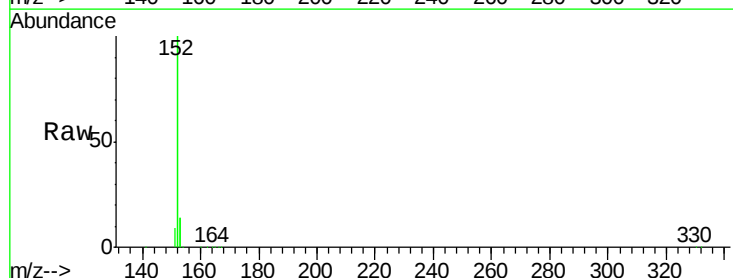
Tgt Ion:152 Resp: 2831420

Ion Ratio Lower Upper

152 100

151 4.9 3.9 5.9

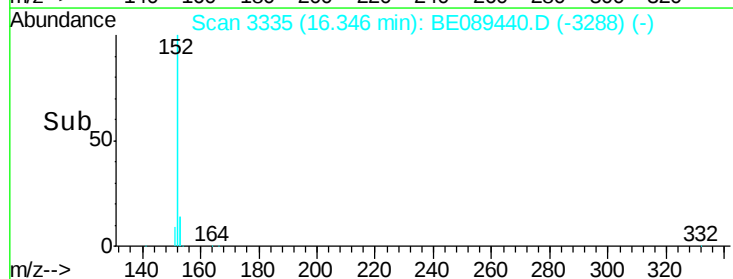
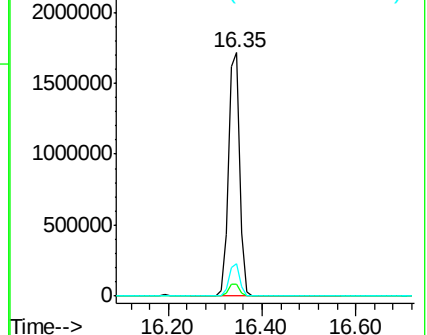
153 12.9 10.3 15.5



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#9

Acenaphthene

Concen: 10.61 ng

RT: 16.76 min Scan# 3373

Delta R.T. 0.00 min

Lab File: BE089440.D

Acq: 30 Jan 2015 10:07

Instrument :

BNA_E

LabSampleId :

SSTDIC010

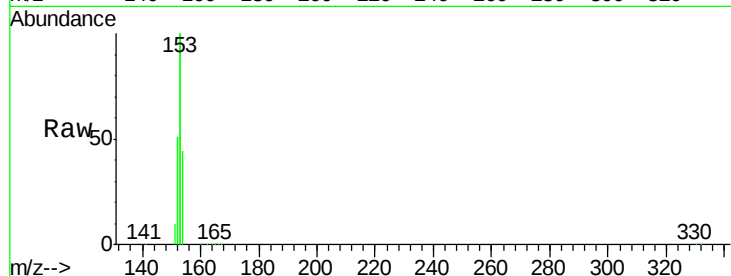
Tgt Ion:154 Resp: 408169

Ion Ratio Lower Upper

154 100

153 427.2 342.3 513.5

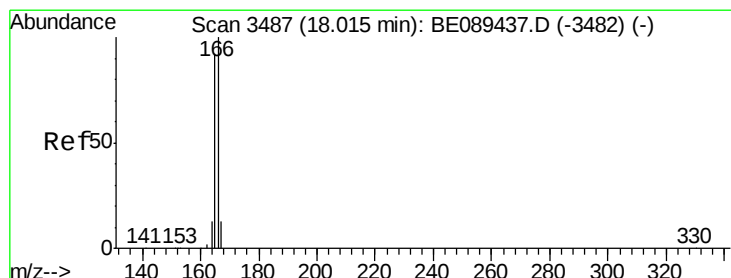
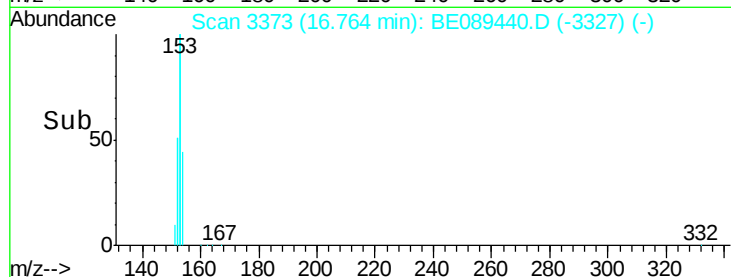
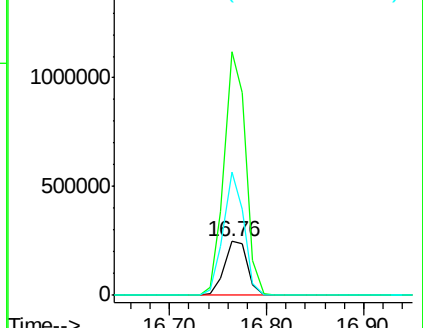
152 205.6 165.5 248.3



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#10

Fluorene

Concen: 11.44 ng

RT: 18.02 min Scan# 3487

Delta R.T. 0.00 min

Lab File: BE089440.D

Acq: 30 Jan 2015 10:07

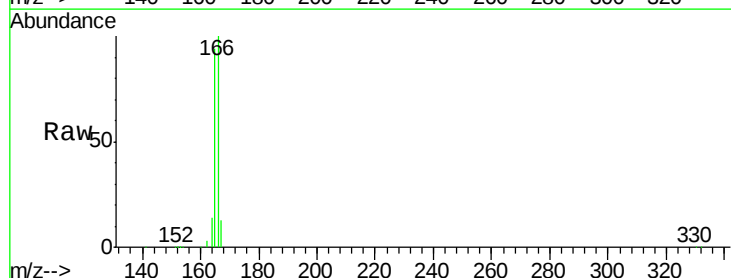
Tgt Ion:166 Resp: 459740

Ion Ratio Lower Upper

166 100

165 92.2 74.4 111.6

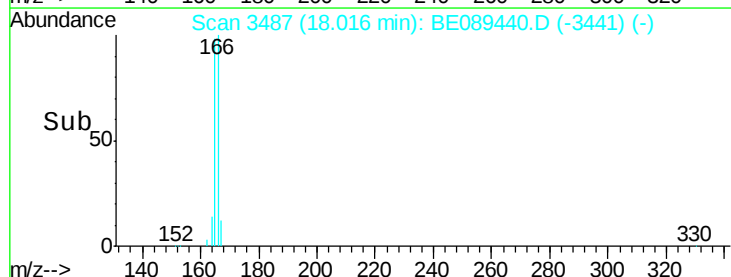
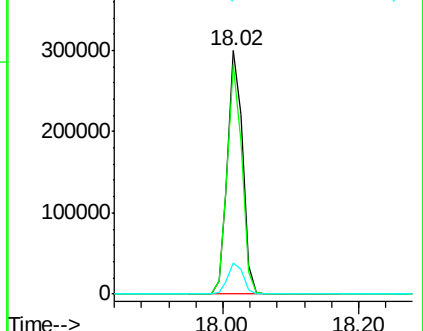
167 13.1 10.6 15.8

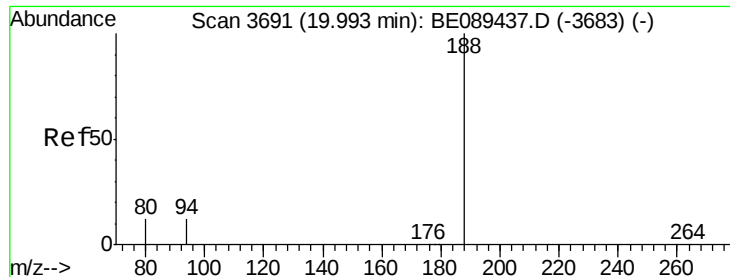


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

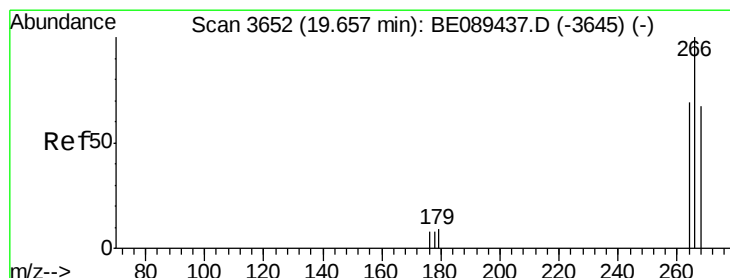
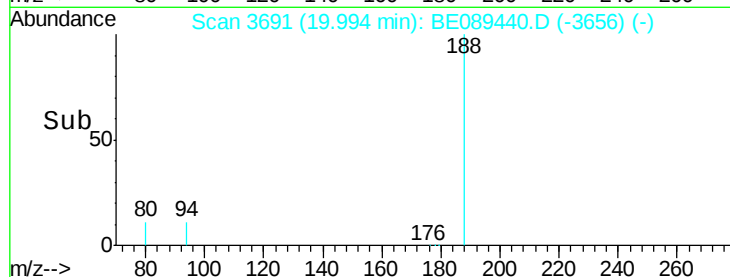
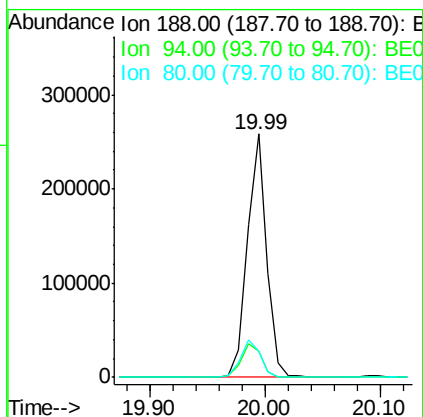
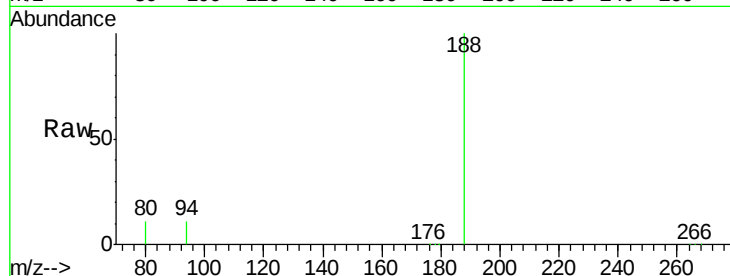




#11
Phenanthrene-d10
Concen: 5.00 ng
RT: 19.99 min Scan# 3691
Delta R.T. 0.00 min
Lab File: BE089440.D
Acq: 30 Jan 2015 10:07

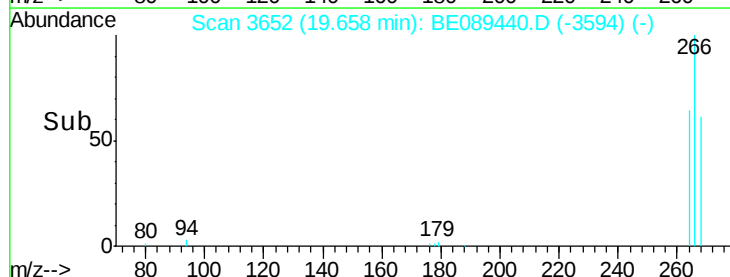
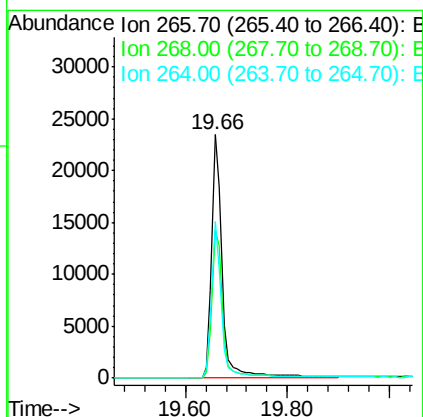
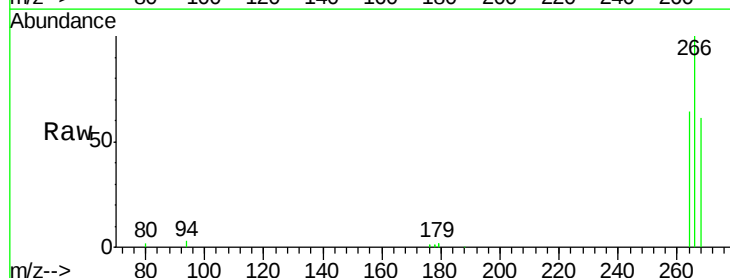
Instrument :
BNA_E
LabSampleId :
SSTDIC010

Tgt Ion:188 Resp: 302394
Ion Ratio Lower Upper
188 100
94 10.6 9.4 14.0
80 10.7 9.3 13.9



#12
Pentachlorophenol
Concen: 9.22 ng
RT: 19.66 min Scan# 3652
Delta R.T. 0.00 min
Lab File: BE089440.D
Acq: 30 Jan 2015 10:07

Tgt Ion:266 Resp: 33691
Ion Ratio Lower Upper
266 100
268 60.7 54.2 81.4
264 64.5 56.2 84.2

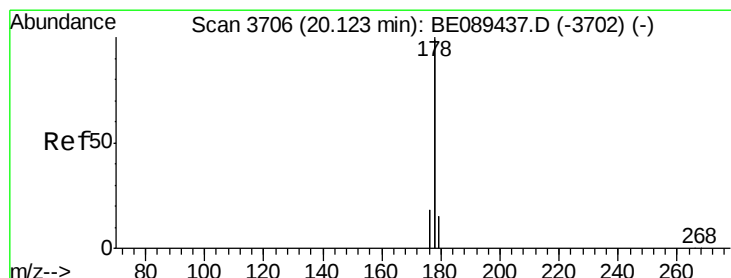
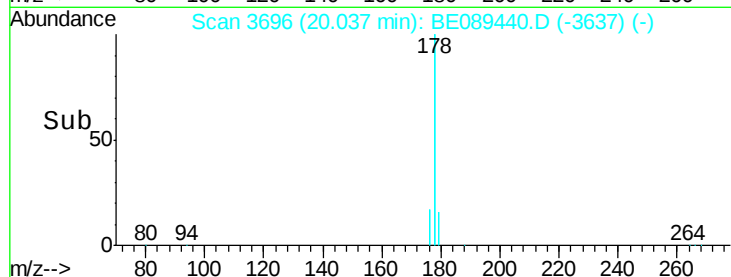
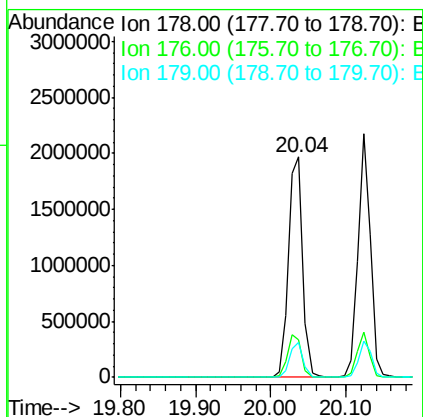
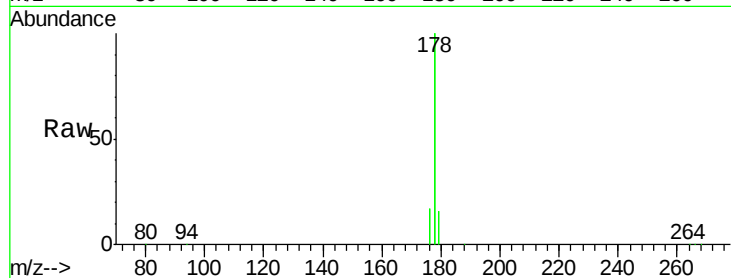




#13
Phenanthrene
Concen: 9.91 ng
RT: 20.04 min Scan# 3696
Delta R.T. 0.01 min
Lab File: BE089440.D
Acq: 30 Jan 2015 10:07

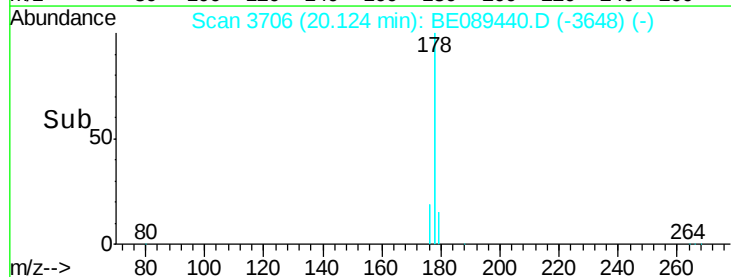
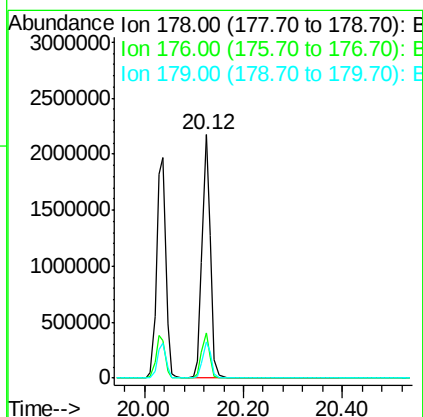
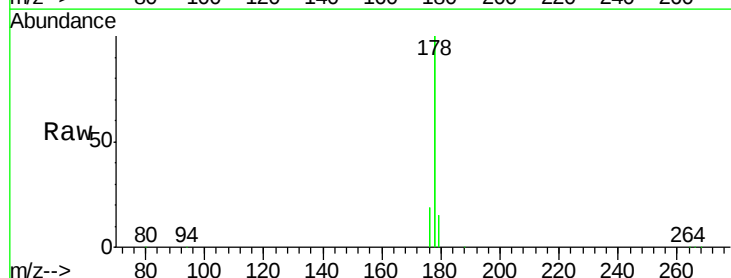
Instrument :
BNA_E
LabSampleId :
SSTDIC010

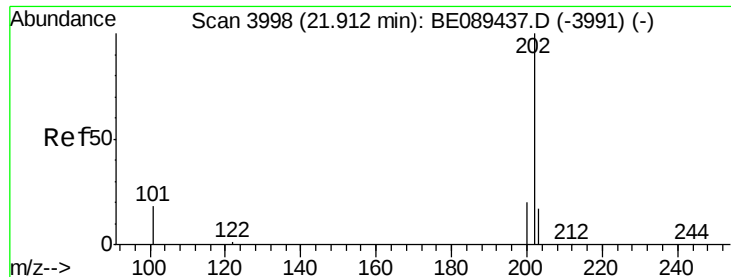
Tgt Ion:178 Resp: 2564828
Ion Ratio Lower Upper
178 100
176 19.0 15.1 22.7
179 15.3 12.3 18.5



#14
Anthracene
Concen: 10.67 ng
RT: 20.12 min Scan# 3706
Delta R.T. 0.00 min
Lab File: BE089440.D
Acq: 30 Jan 2015 10:07

Tgt Ion:178 Resp: 2522870
Ion Ratio Lower Upper
178 100
176 18.3 14.6 22.0
179 15.3 12.2 18.2

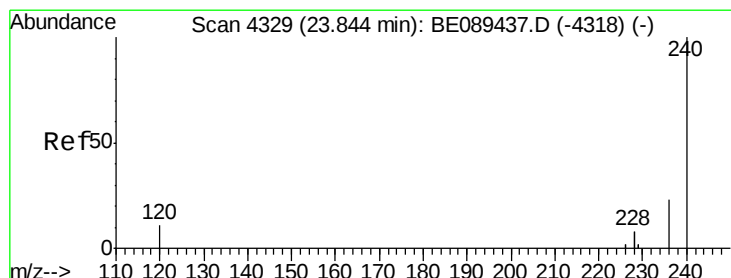
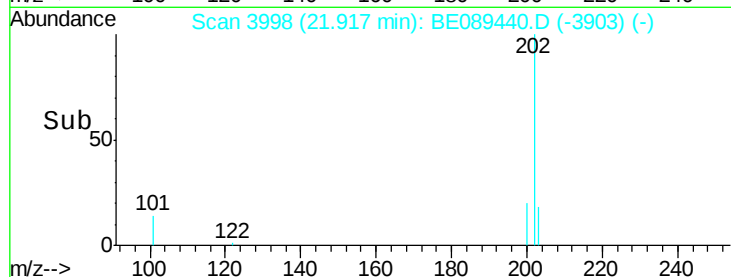
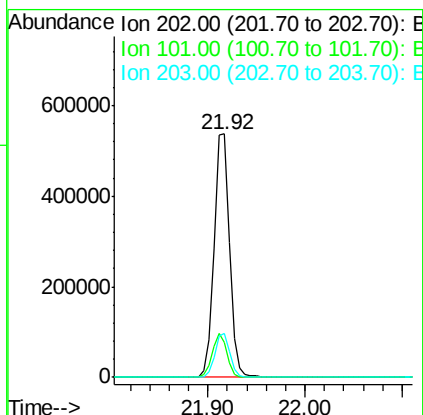
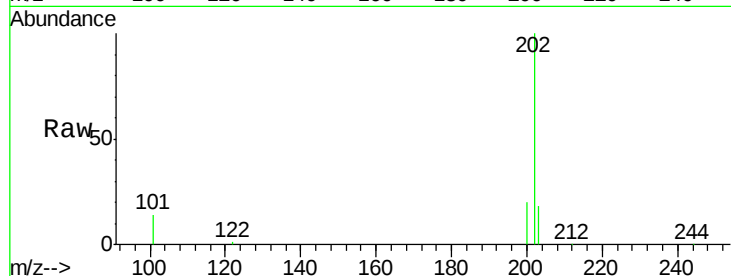




#15
 Fluoranthene
 Concen: 11.65 ng
 RT: 21.92 min Scan# 3998
 Delta R.T. 0.01 min
 Lab File: BE089440.D
 Acq: 30 Jan 2015 10:07

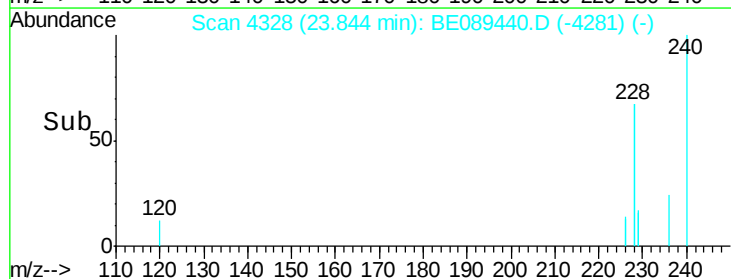
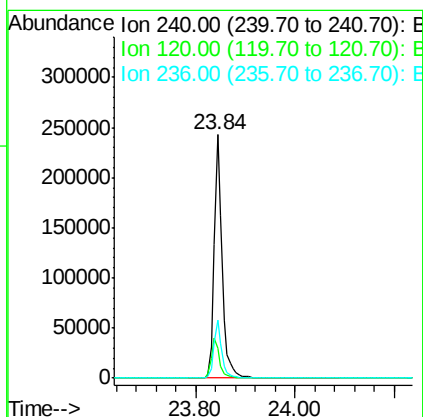
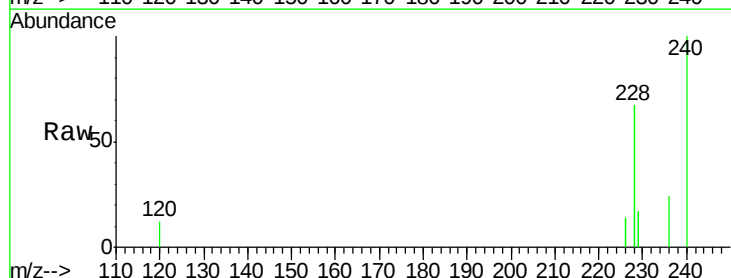
Instrument :
 BNA_E
 LabSampleId :
 SSTDICC010

Tgt Ion: 202 Resp: 599446
 Ion Ratio Lower Upper
 202 100
 101 16.9 13.6 20.4
 203 17.3 13.8 20.6



#16
 Chrysene-d12
 Concen: 5.00 ng
 RT: 23.84 min Scan# 4328
 Delta R.T. -0.00 min
 Lab File: BE089440.D
 Acq: 30 Jan 2015 10:07

Tgt Ion: 240 Resp: 268070
 Ion Ratio Lower Upper
 240 100
 120 12.4 8.6 13.0
 236 23.9 18.7 28.1

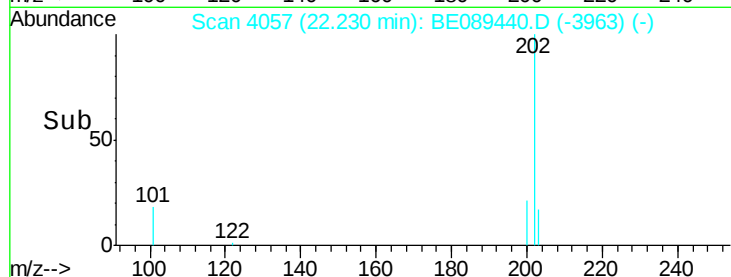
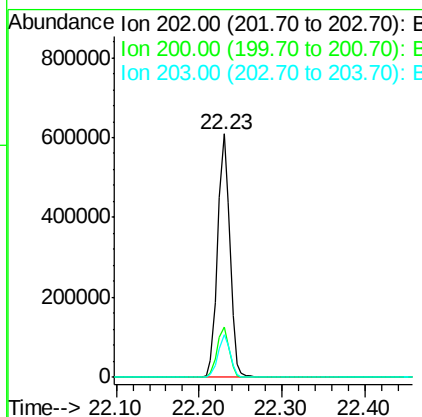
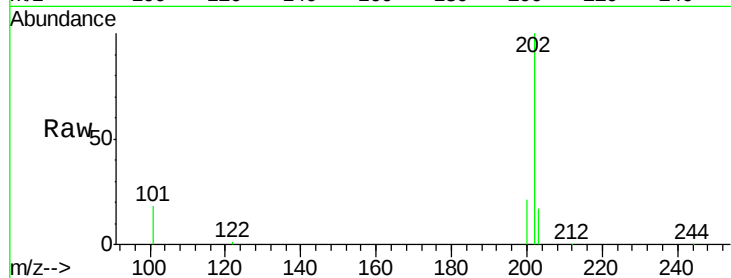




#17
 Pyrene
 Concen: 9.23 ng
 RT: 22.23 min Scan# 4057
 Delta R.T. -0.00 min
 Lab File: BE089440.D
 Acq: 30 Jan 2015 10:07

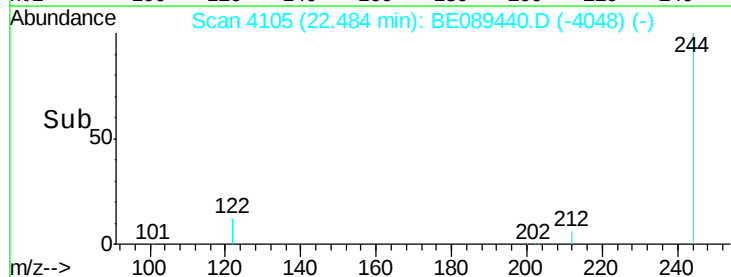
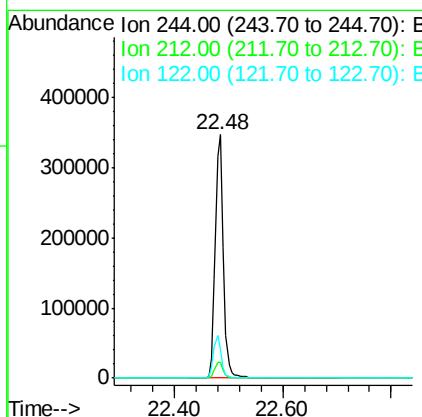
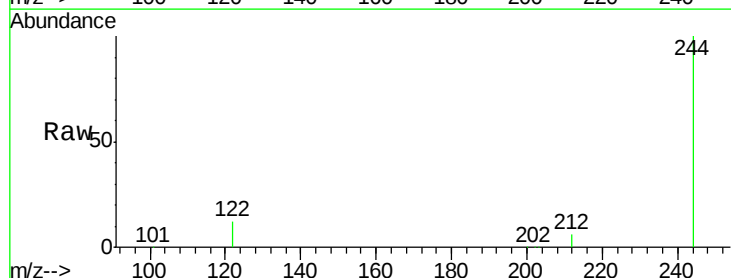
Instrument :
 BNA_E
 LabSampleId :
 SSTDICC010

Tgt Ion: 202 Resp: 619712
 Ion Ratio Lower Upper
 202 100
 200 20.7 16.2 24.4
 203 17.4 13.8 20.8



#18
 Terphenyl-d14
 Concen: 10.40 ng
 RT: 22.48 min Scan# 4105
 Delta R.T. -0.00 min
 Lab File: BE089440.D
 Acq: 30 Jan 2015 10:07

Tgt Ion: 244 Resp: 361148
 Ion Ratio Lower Upper
 244 100
 212 6.5 5.0 7.6
 122 11.6 10.2 15.4





#19

Benzo(a)anthracene

Concen: 11.92 ng

RT: 23.83 min Scan# 4326

Delta R.T. -0.00 min

Lab File: BE089440.D

Acq: 30 Jan 2015 10:07

Instrument :

BNA_E

LabSampleId :

SSTDICC010

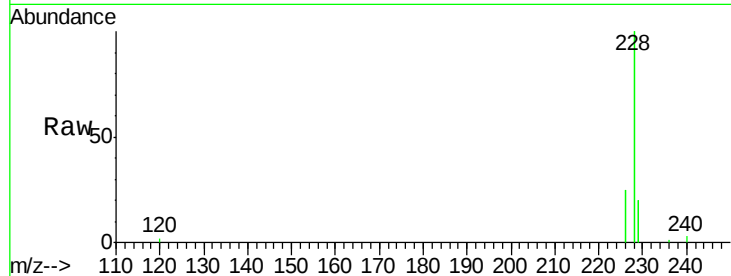
Tgt Ion:228 Resp: 2156277

Ion Ratio Lower Upper

228 100

226 24.7 20.0 30.0

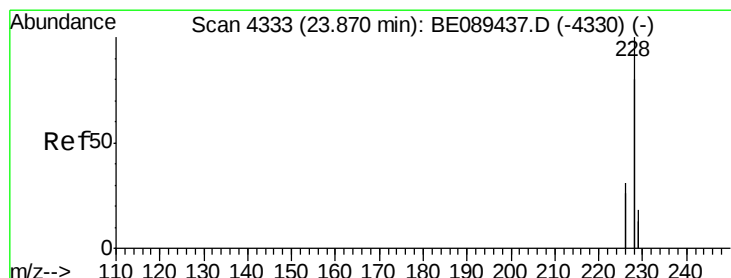
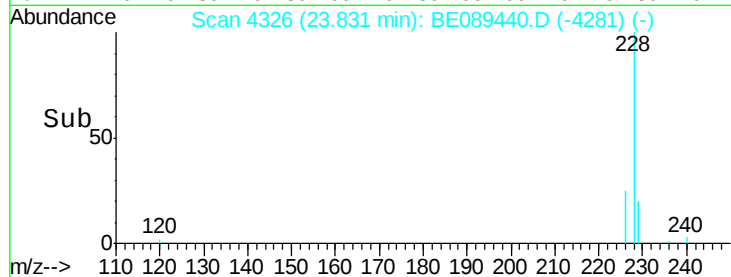
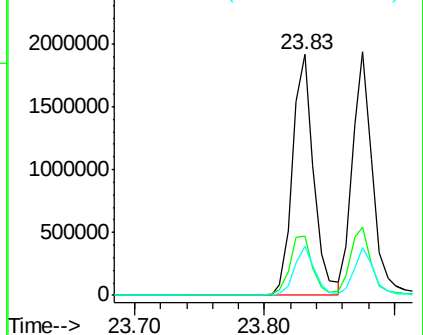
229 20.3 16.0 24.0



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#20

Chrysene

Concen: 9.38 ng

RT: 23.88 min Scan# 4333

Delta R.T. 0.01 min

Lab File: BE089440.D

Acq: 30 Jan 2015 10:07

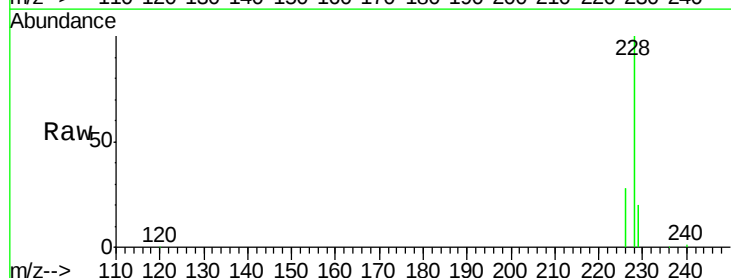
Tgt Ion:228 Resp: 2129972

Ion Ratio Lower Upper

228 100

226 27.8 24.5 36.7

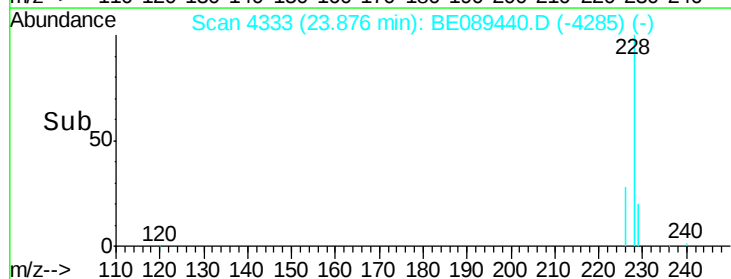
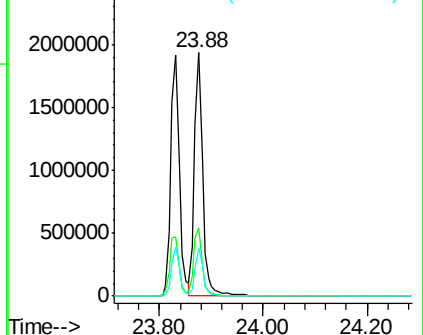
229 19.7 14.1 21.1



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#21

Indeno(1,2,3-cd)pyrene

Concen: 20.38 ng

RT: 27.06 min Scan# 4949

Delta R.T. -0.00 min

Lab File: BE089440.D

Acq: 30 Jan 2015 10:07

Instrument :

BNA_E

LabSampleId :

SSTDICC010

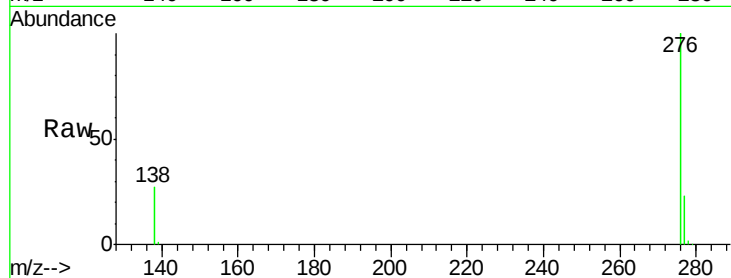
Tgt Ion:276 Resp: 2569366

Ion Ratio Lower Upper

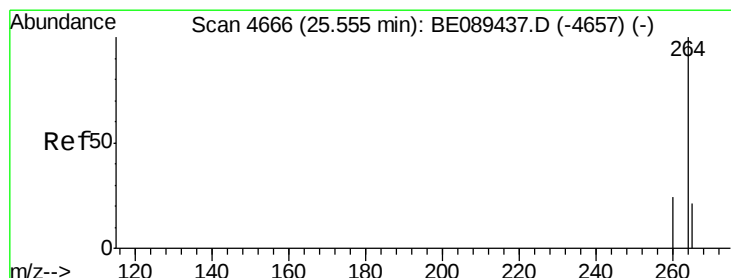
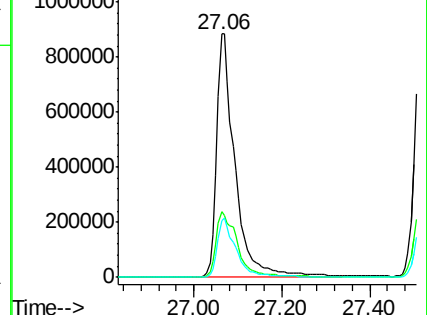
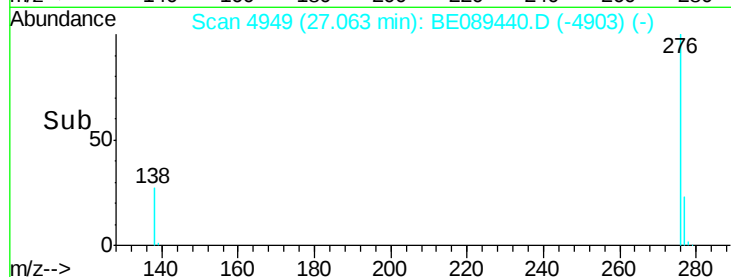
276 100

138 31.8 25.4 38.0

277 25.0 19.8 29.6



Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E



#22

Perylene-d12

Concen: 5.00 ng

RT: 25.55 min Scan# 4665

Delta R.T. -0.00 min

Lab File: BE089440.D

Acq: 30 Jan 2015 10:07

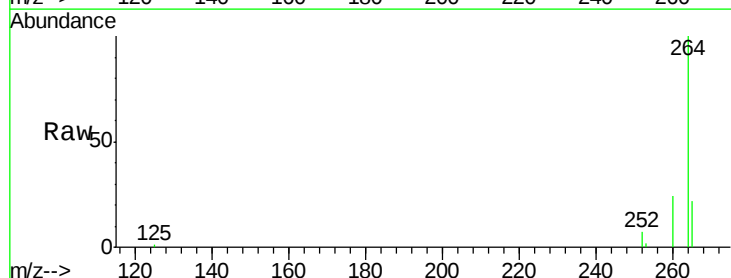
Tgt Ion:264 Resp: 258704

Ion Ratio Lower Upper

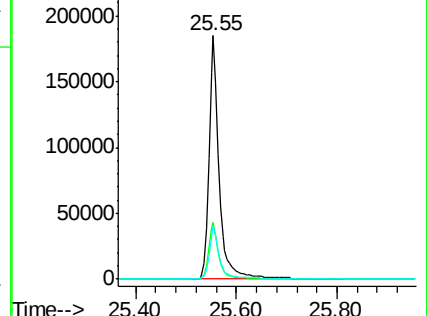
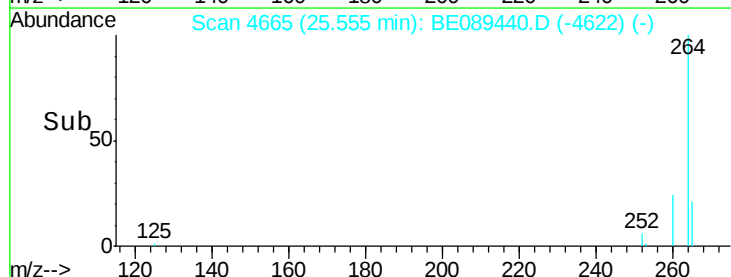
264 100

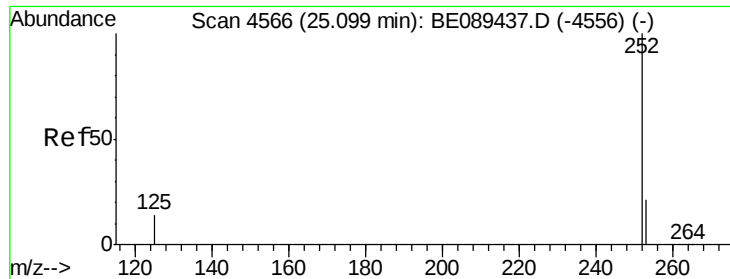
260 23.6 19.4 29.0

265 21.6 17.0 25.6



Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E





#23

Benzo(b)fluoranthene

Concen: 15.78 ng

RT: 25.10 min Scan# 4566

Delta R.T. 0.00 min

Lab File: BE089440.D

Acq: 30 Jan 2015 10:07

Instrument :

BNA_E

LabSampleId :

SSTDICC010

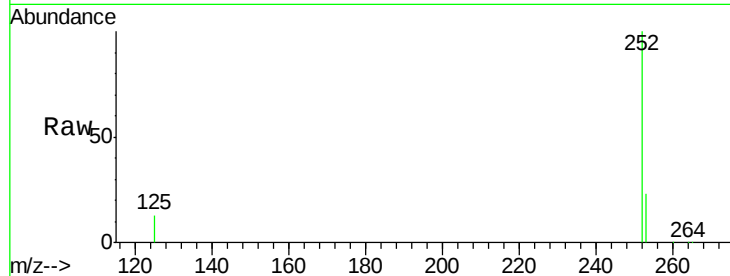
Tgt Ion:252 Resp: 477427

Ion Ratio Lower Upper

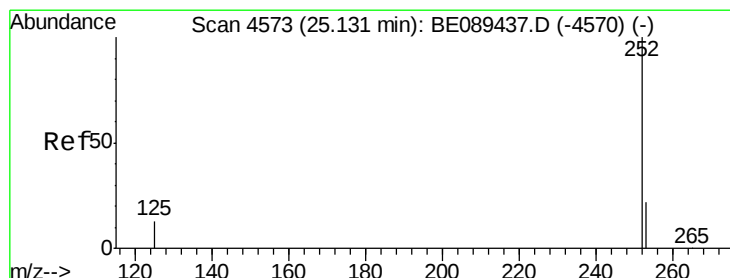
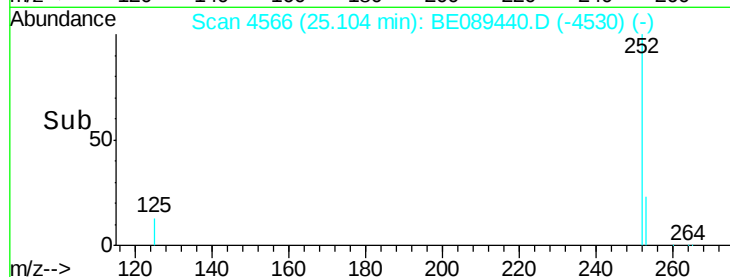
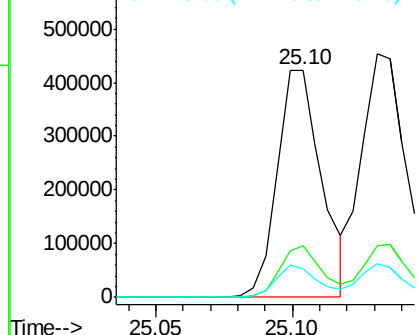
252 100

253 22.5 17.0 25.6

125 12.7 11.4 17.0



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



#24

Benzo(k)fluoranthene

Concen: 11.66 ng

RT: 25.13 min Scan# 4572

Delta R.T. -0.00 min

Lab File: BE089440.D

Acq: 30 Jan 2015 10:07

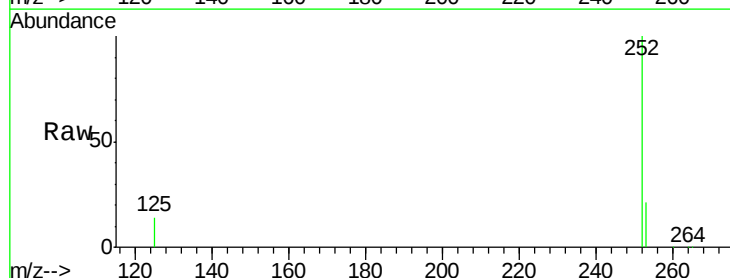
Tgt Ion:252 Resp: 611168

Ion Ratio Lower Upper

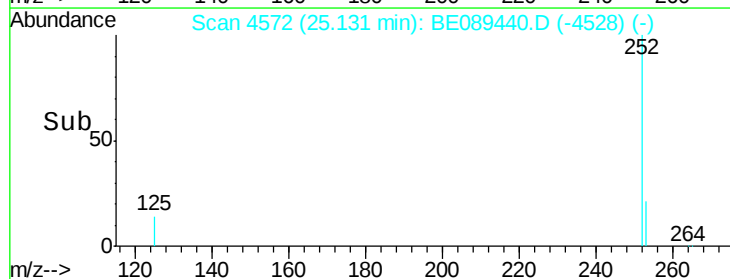
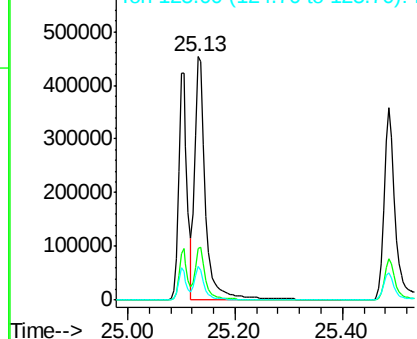
252 100

253 21.2 17.4 26.2

125 13.9 10.9 16.3



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(a)pyrene

Concen: 15.56 ng

RT: 25.49 min Scan# 4650

Delta R.T. -0.00 min

Lab File: BE089440.D

Acq: 30 Jan 2015 10:07

Instrument :

BNA_E

LabSampleId :

SSTDIC010

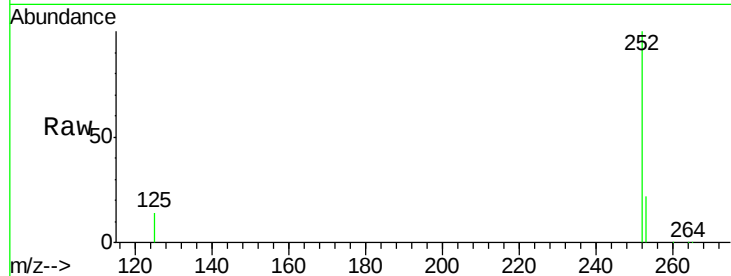
Tgt Ion: 252 Resp: 478406

Ion Ratio Lower Upper

252 100

253 21.6 17.3 25.9

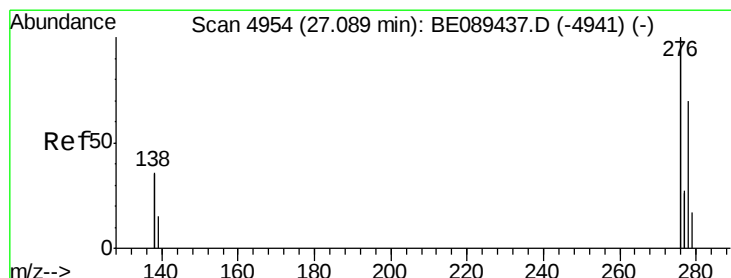
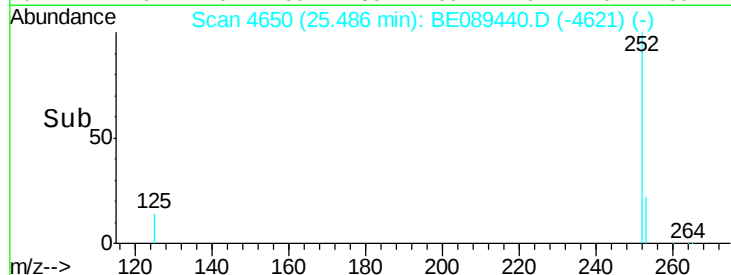
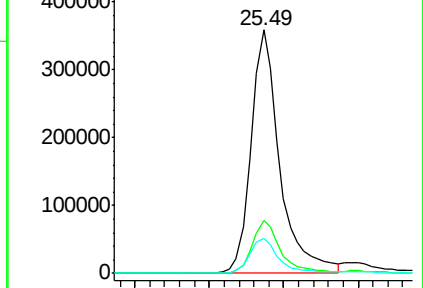
125 14.4 12.0 18.0



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#26

Dibenzo(a,h)anthracene

Concen: 21.30 ng

RT: 27.10 min Scan# 4954

Delta R.T. 0.01 min

Lab File: BE089440.D

Acq: 30 Jan 2015 10:07

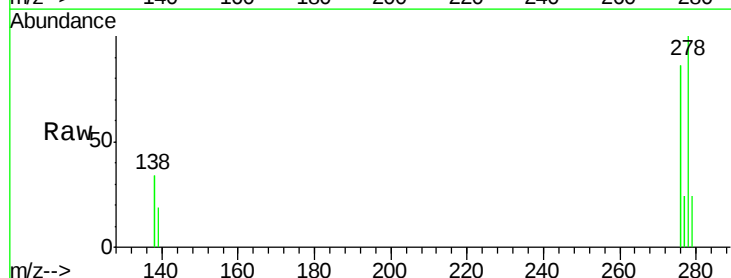
Tgt Ion: 278 Resp: 544436

Ion Ratio Lower Upper

278 100

139 18.7 17.0 25.4

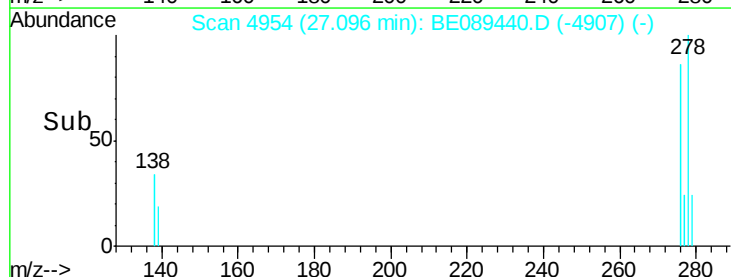
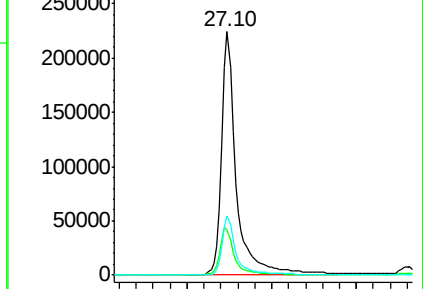
279 24.1 19.1 28.7



Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#27

Benzo(g,h,i)perylene

Concen: 14.36 ng

RT: 27.52 min Scan# 5019

Delta R.T. 0.01 min

Lab File: BE089440.D

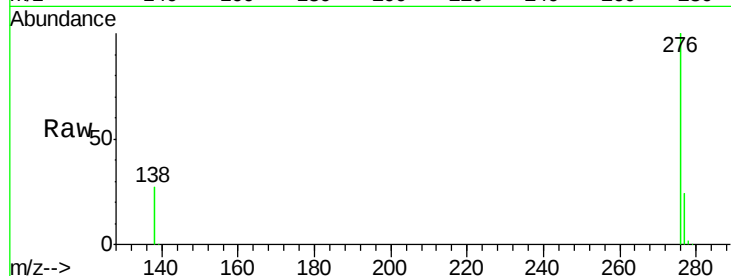
Acq: 30 Jan 2015 10:07

Instrument :

BNA_E

LabSampleId :

SSTDIC010



Tgt Ion:276 Resp: 2149928

Ion Ratio Lower Upper

276 100

277 23.7 18.4 27.6

138 26.5 23.7 35.5

