

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE020615\
 Data File : BE089556.D
 Acq On : 7 Feb 2015 11:21
 Operator : TP/IZ
 Sample : MDL-05-W
 Misc : MDL-WATER-0.1/0.2
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 BNA_E
 LabSampleId :
 SSTDICCC001

Quant Time: Feb 09 00:16:49 2015
 Quant Method : Z:\HPCHEM1\BNA_E\methods\SIMPAH-BE020615.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Feb 07 04:07:57 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.42	152	47137	5.00	ng	0.00
2) Naphthalene-d8	12.33	136	181491	5.00	ng	0.00
6) Acenaphthene-d10	16.51	164	84866	5.00	ng	0.00
11) Phenanthrene-d10	19.84	188	145950	5.00	ng	0.00
16) Chrysene-d12	23.72	240	166074	5.00	ng	0.00
22) Perylene-d12	25.41	264	174280	5.00	ng	0.00

System Monitoring Compounds						
3) Nitrobenzene-d5	10.69	82	96615	8.02	ng	0.00
7) 2-Fluorobiphenyl	14.96	172	150639	6.65	ng	0.00
18) Terphenyl-d14	22.36	244	172732	7.88	ng	0.00

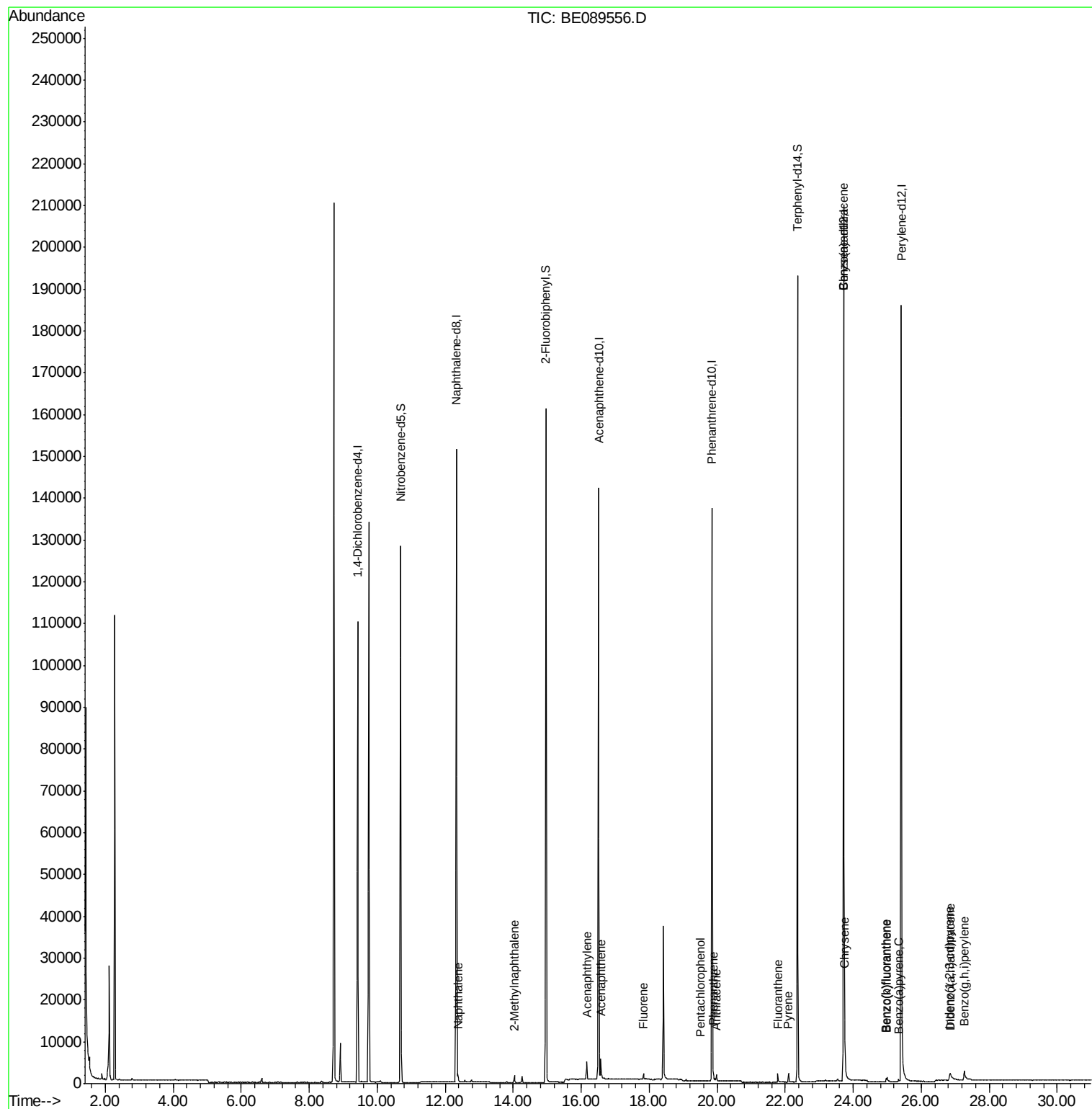
Target Compounds						Qvalue
4) Naphthalene	12.37	128	2216	0.05	ng	95
5) 2-Methylnaphthalene	14.03	142	1101	0.05	ng	95
8) Acenaphthylene	16.16	152	5723	0.04	ng	98
9) Acenaphthene	16.59	154	1036	0.05	ng	85
10) Fluorene	17.83	166	1020	0.04	ng	95
12) Pentachlorophenol	19.51	266	9	0.54	ng	# 70
13) Phenanthrene	19.89	178	1940	0.05	ng	97
14) Anthracene	19.98	178	1315	0.04	ng	97
15) Fluoranthene	21.79	202	1480	0.04	ng	99
17) Pyrene	22.10	202	1560	0.04	ng	99
19) Benzo(a)anthracene	23.71	228	7428	0.05	ng	95
20) Chrysene	23.75	228	8316	0.06	ng	# 91
21) Indeno(1,2,3-cd)pyrene	26.84	276	4662	0.02	ng	# 91
23) Benzo(b)fluoranthene	24.97	252	902	0.03	ng	# 84
24) Benzo(k)fluoranthene	25.00	252	1613	0.04	ng	# 82
25) Benzo(a)pyrene	25.34	252	887	0.03	ng	# 78
26) Dibenzo(a,h)anthracene	26.87	278	768	0.02	ng	# 57
27) Benzo(g,h,i)perylene	27.27	276	4845	0.03	ng	# 86

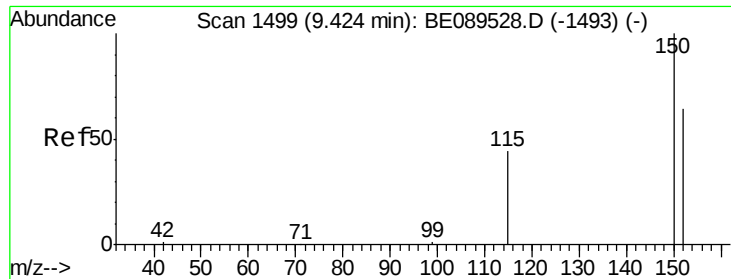
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 9.42 min Scan# 1498

Delta R.T. -0.00 min

Lab File: BE089556.D

Acq: 7 Feb 2015 11:21

Instrument :

BNA_E

LabSampleId :

SSTDICCC001

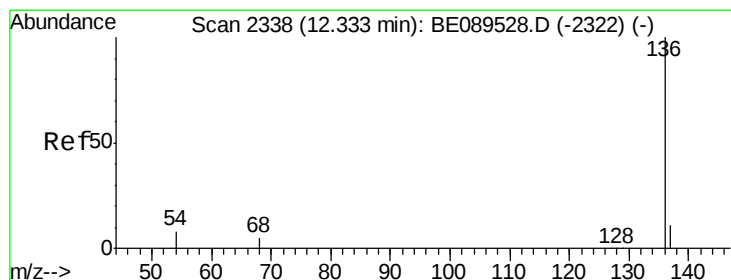
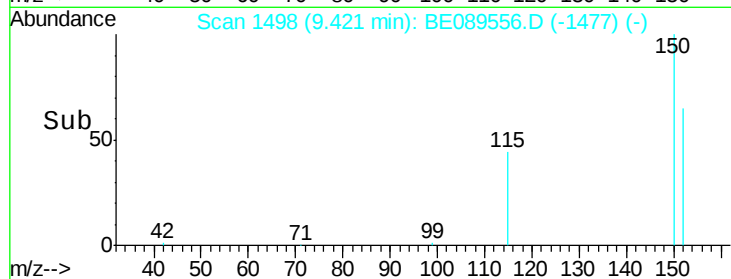
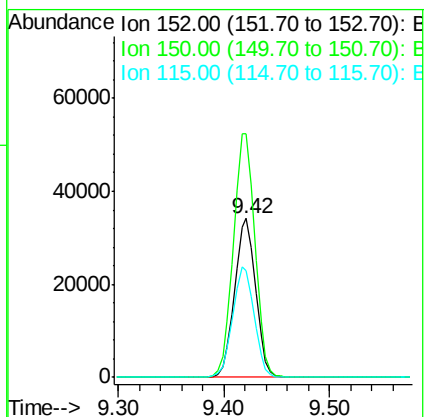
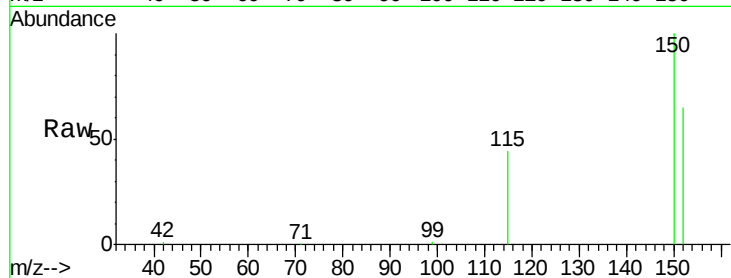
Tgt Ion:152 Resp: 47137

Ion Ratio Lower Upper

152 100

150 153.2 125.7 188.5

115 67.1 55.6 83.4



#2

Naphthalene-d8

Concen: 5.00 ng

RT: 12.33 min Scan# 2337

Delta R.T. -0.01 min

Lab File: BE089556.D

Acq: 7 Feb 2015 11:21

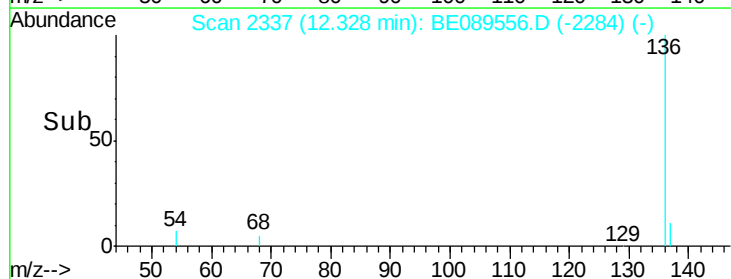
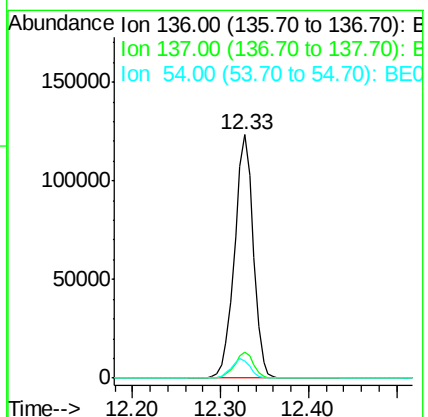
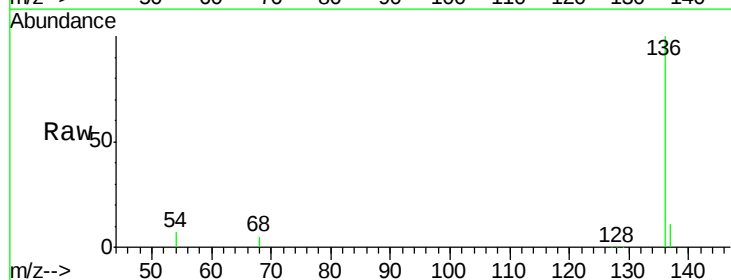
Tgt Ion:136 Resp: 181491

Ion Ratio Lower Upper

136 100

137 10.7 8.7 13.1

54 7.2 6.1 9.1





#3

Nitrobenzene-d5

Concen: 8.02 ng

RT: 10.69 min Scan# 1894

Delta R.T. -0.00 min

Lab File: BE089556.D

Acq: 7 Feb 2015 11:21

Instrument :

BNA_E

LabSampleId :

SSTDICCC001

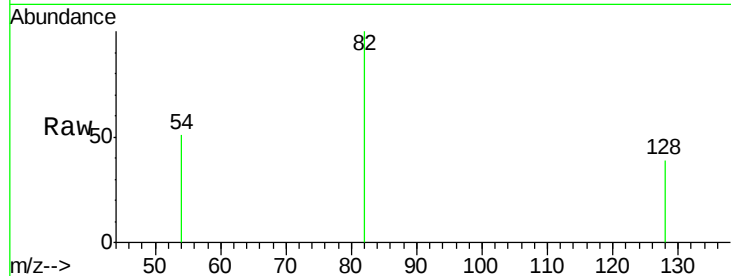
Tgt Ion: 82 Resp: 96615

Ion Ratio Lower Upper

82 100

128 39.4 30.2 45.4

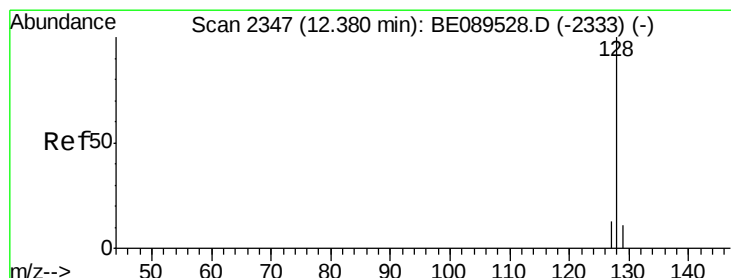
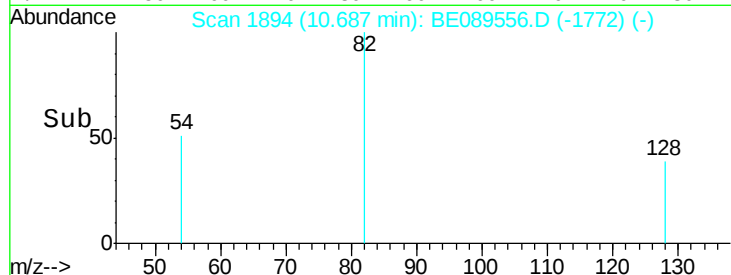
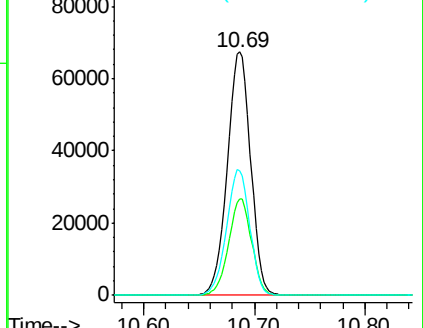
54 51.4 40.6 60.8



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: 0.05 ng

RT: 12.37 min Scan# 2345

Delta R.T. -0.01 min

Lab File: BE089556.D

Acq: 7 Feb 2015 11:21

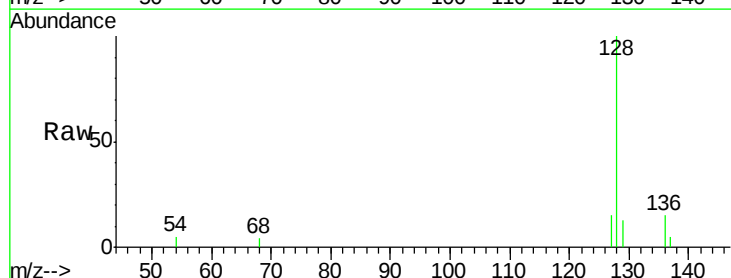
Tgt Ion: 128 Resp: 2216

Ion Ratio Lower Upper

128 100

129 13.2 9.1 13.7

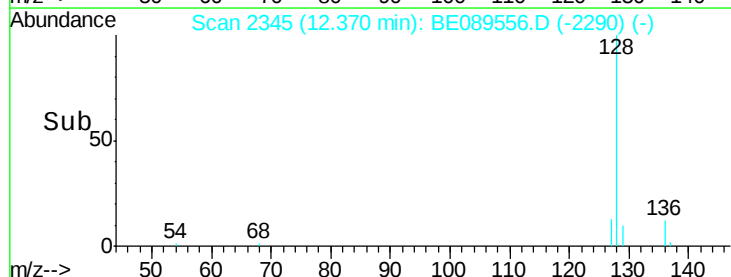
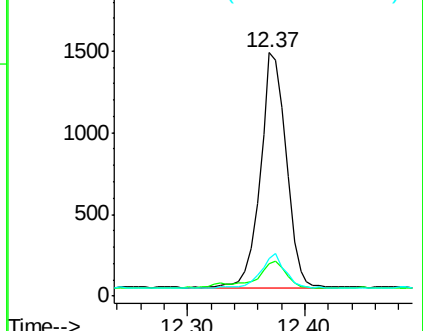
127 15.4 10.5 15.7



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: 0.05 ng

RT: 14.03 min Scan# 2678

Delta R.T. -0.01 min

Lab File: BE089556.D

Acq: 7 Feb 2015 11:21

Instrument :

BNA_E

LabSampleId :

SSTDICCC001

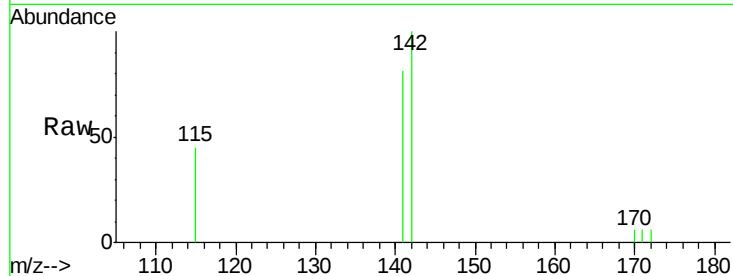
Tgt Ion:142 Resp: 1101

Ion Ratio Lower Upper

142 100

141 81.4 67.0 100.6

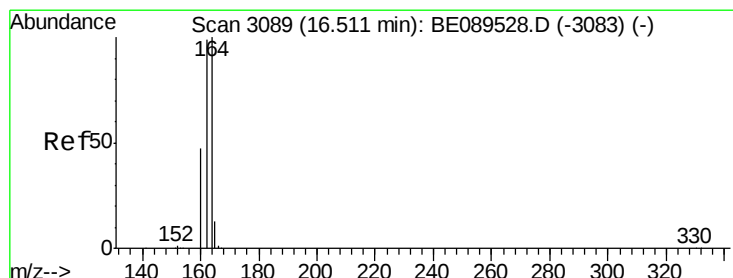
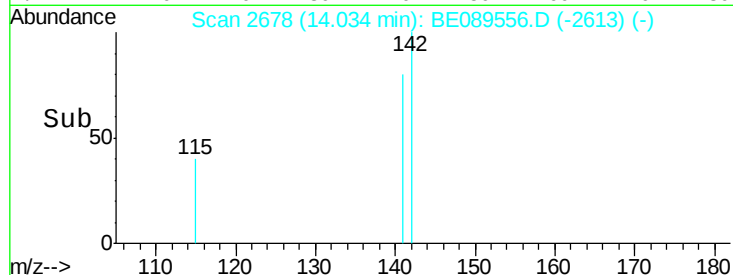
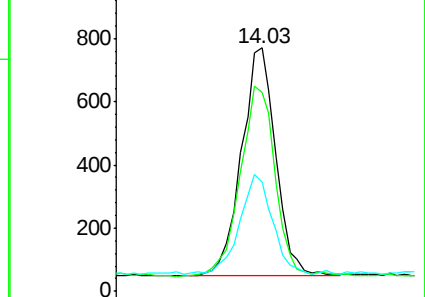
115 44.9 30.6 45.8



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: 16.51 min Scan# 3089

Delta R.T. 0.00 min

Lab File: BE089556.D

Acq: 7 Feb 2015 11:21

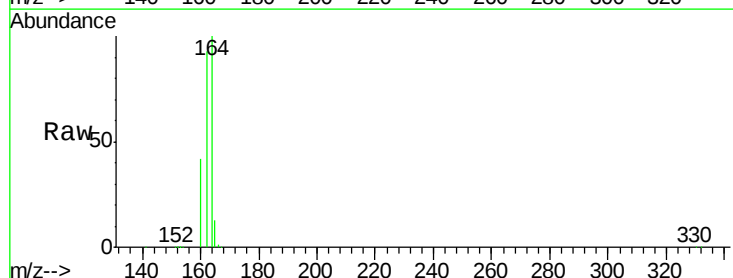
Tgt Ion:164 Resp: 84866

Ion Ratio Lower Upper

164 100

162 93.2 79.5 119.3

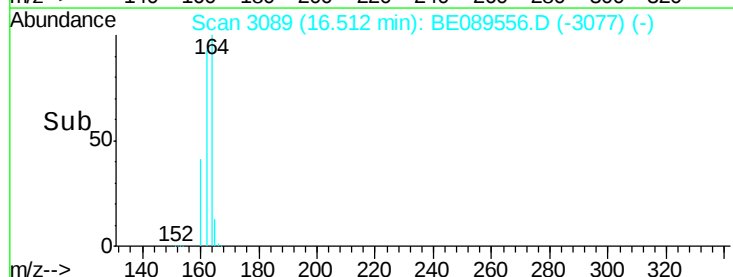
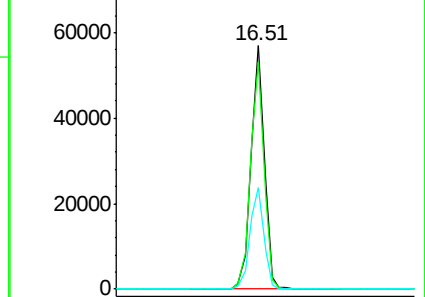
160 41.5 37.6 56.4



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: 6.65 ng

RT: 14.96 min Scan# 2882

Delta R.T. -0.00 min

Lab File: BE089556.D

Acq: 7 Feb 2015 11:21

Instrument :

BNA_E

LabSampleId :

SSTDICCC001

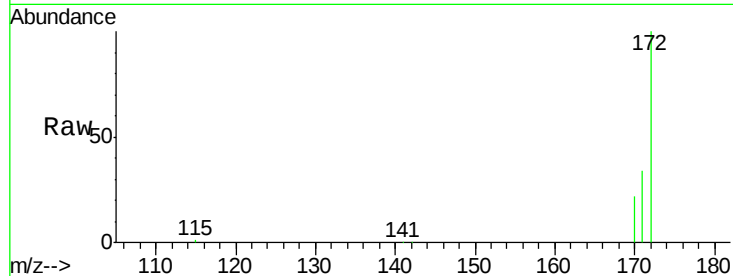
Tgt Ion:172 Resp: 150639

Ion Ratio Lower Upper

172 100

171 33.8 27.7 41.5

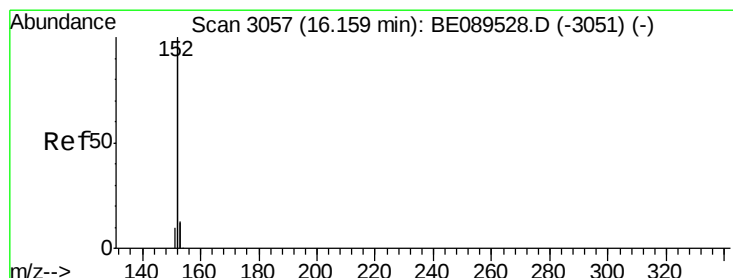
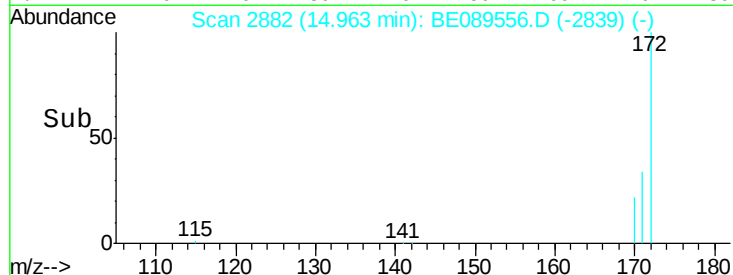
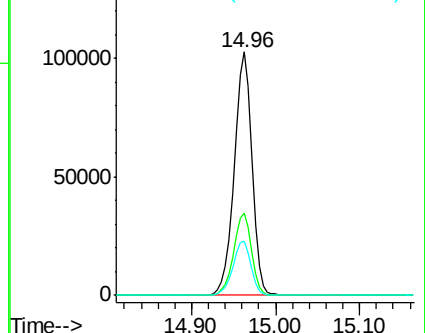
170 22.4 18.3 27.5



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: 0.04 ng

RT: 16.16 min Scan# 3057

Delta R.T. 0.00 min

Lab File: BE089556.D

Acq: 7 Feb 2015 11:21

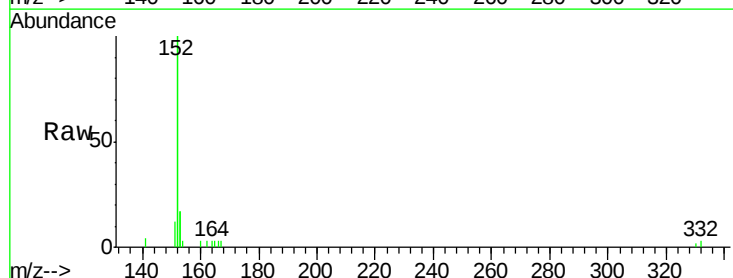
Tgt Ion:152 Resp: 5723

Ion Ratio Lower Upper

152 100

151 4.9 4.0 6.0

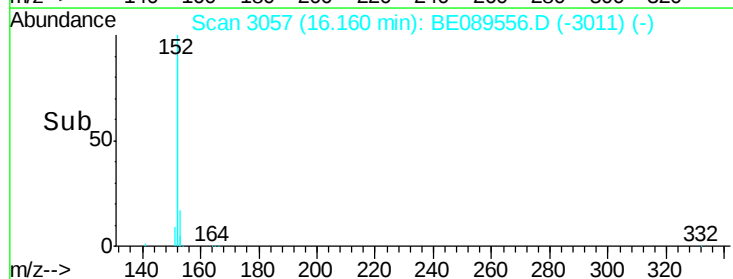
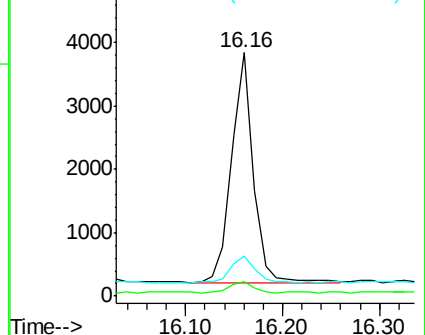
153 14.1 10.6 15.8

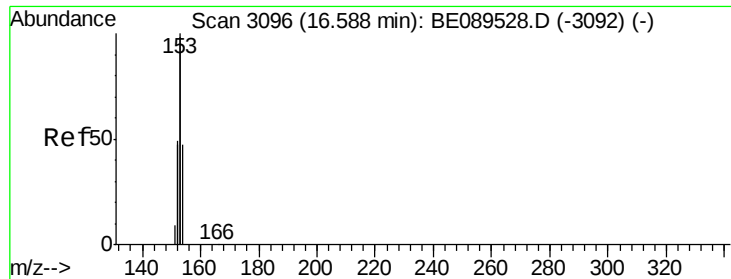


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#9

Acenaphthene

Concen: 0.05 ng

RT: 16.59 min Scan# 3096

Delta R.T. 0.00 min

Lab File: BE089556.D

Acq: 7 Feb 2015 11:21

Instrument :

BNA_E

LabSampleId :

SSTDICCC001

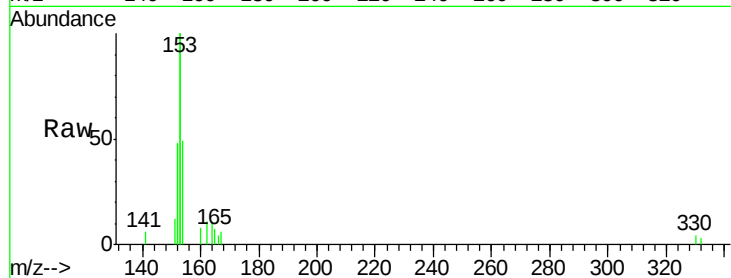
Tgt Ion:154 Resp: 1036

Ion Ratio Lower Upper

154 100

153 452.4 340.8 511.2

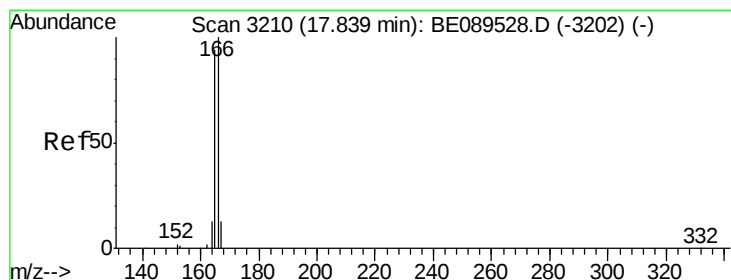
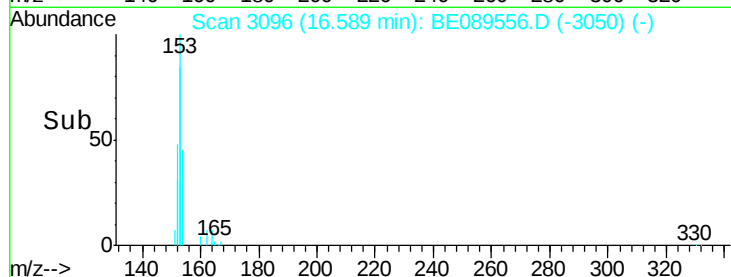
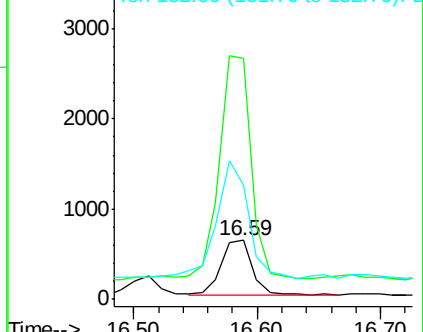
152 242.5 165.5 248.3



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: 0.04 ng

RT: 17.83 min Scan# 3209

Delta R.T. -0.01 min

Lab File: BE089556.D

Acq: 7 Feb 2015 11:21

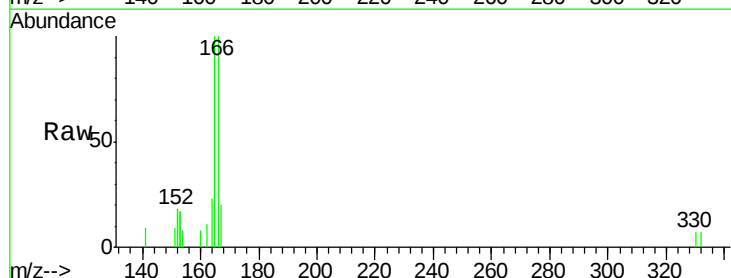
Tgt Ion:166 Resp: 1020

Ion Ratio Lower Upper

166 100

165 99.6 75.5 113.3

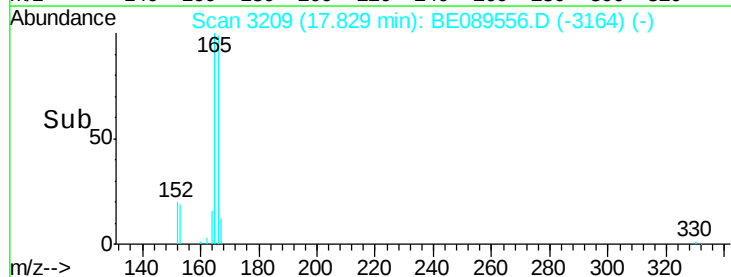
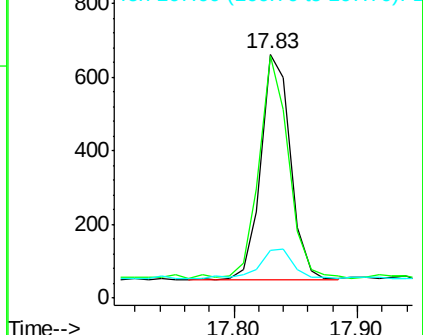
167 14.9 10.9 16.3

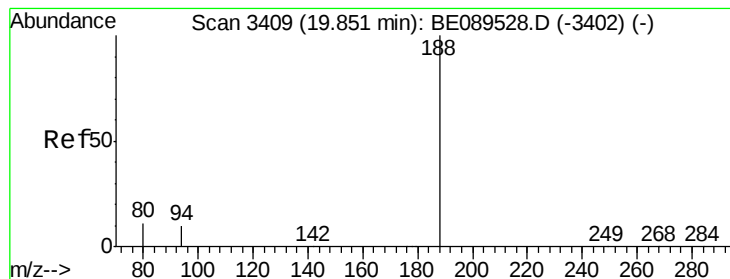


Abundance Ion 166.00 (165.70 to 166.70): E

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: 19.84 min Scan# 3408

Delta R.T. -0.01 min

Lab File: BE089556.D

Acq: 7 Feb 2015 11:21

Instrument :

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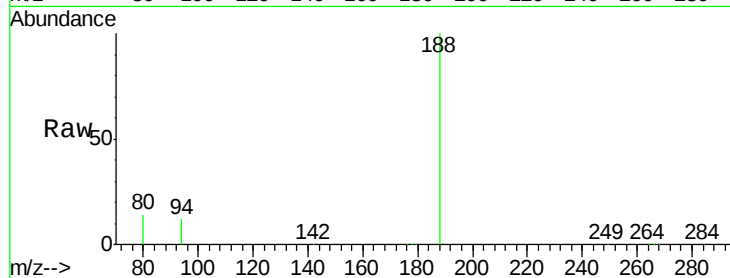
Tgt Ion:188 Resp: 145950

Ion Ratio Lower Upper

188 100

94 12.3 8.4 12.6

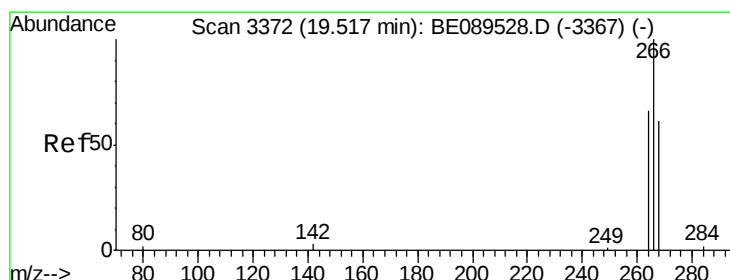
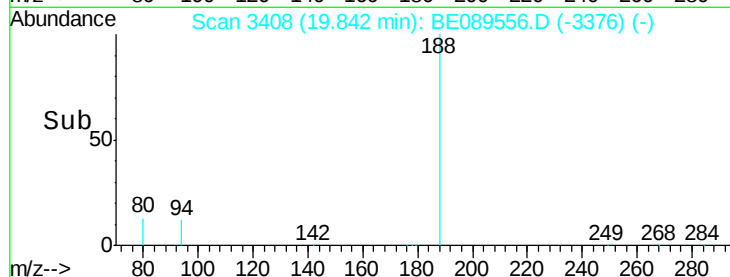
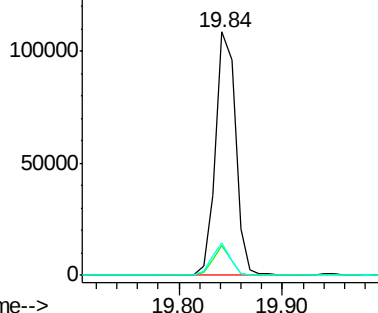
80 13.5 8.6 12.8#



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



#12

Pentachlorophenol

Concen: 0.54 ng

RT: 19.51 min Scan# 3371

Delta R.T. -0.01 min

Lab File: BE089556.D

Acq: 7 Feb 2015 11:21

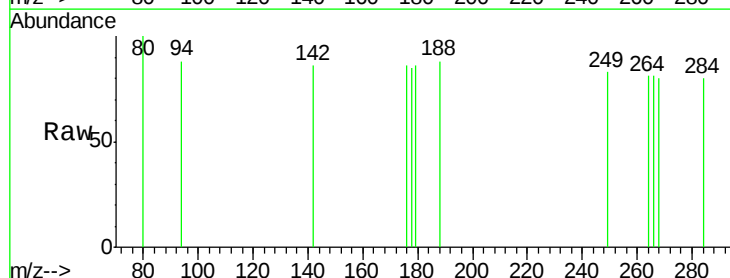
Tgt Ion:266 Resp: 9

Ion Ratio Lower Upper

266 100

268 97.9 57.9 86.9#

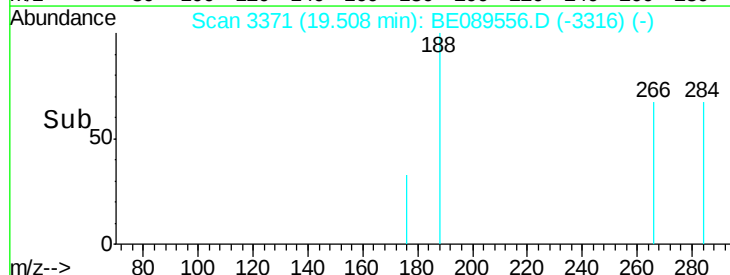
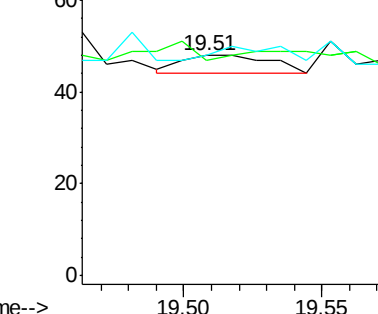
264 100.0 60.2 90.4#

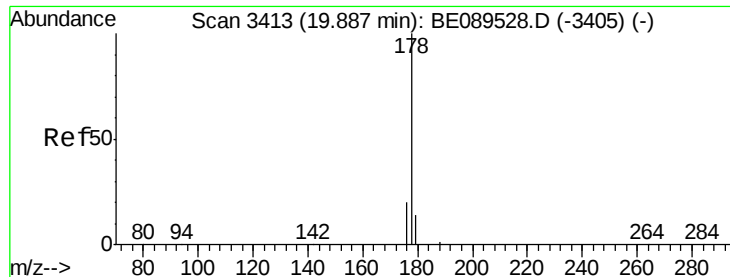


Abundance Ion 265.70 (265.40 to 266.40): E

Ion 268.00 (267.70 to 268.70): E

Ion 264.00 (263.70 to 264.70): E





#13

Phenanthrene

Concen: 0.05 ng

RT: 19.89 min Scan# 3413

Delta R.T. 0.00 min

Lab File: BE089556.D

Acq: 7 Feb 2015 11:21

Instrument :

BNA_E

LabSampleId :

SSTDICCC001

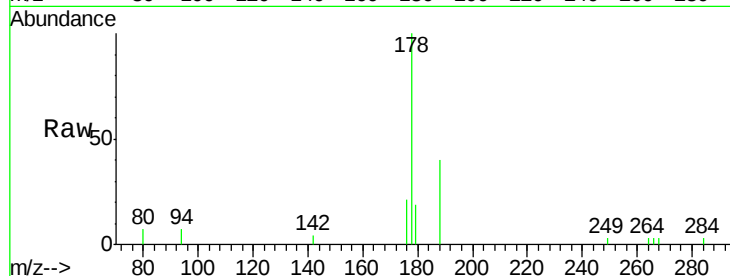
Tgt Ion:178 Resp: 1940

Ion Ratio Lower Upper

178 100

176 20.2 15.4 23.0

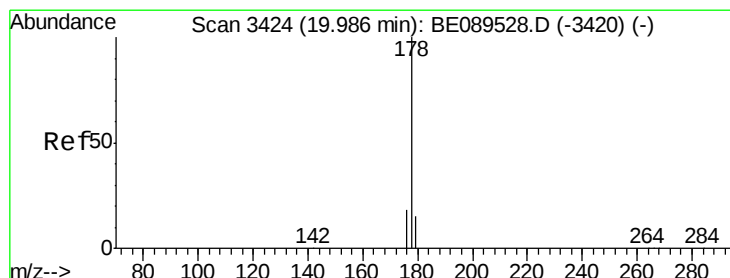
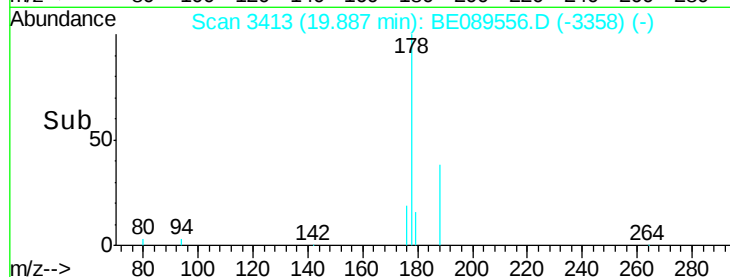
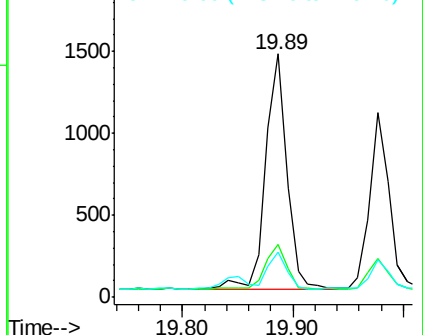
179 13.7 12.2 18.2



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



#14

Anthracene

Concen: 0.04 ng

RT: 19.98 min Scan# 3423

Delta R.T. -0.01 min

Lab File: BE089556.D

Acq: 7 Feb 2015 11:21

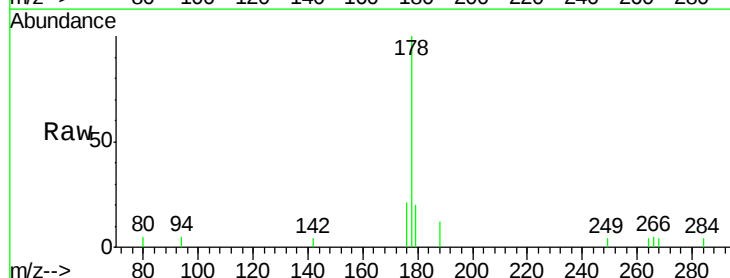
Tgt Ion:178 Resp: 1315

Ion Ratio Lower Upper

178 100

176 18.4 14.5 21.7

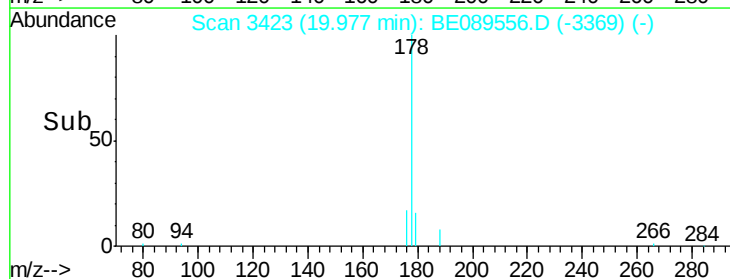
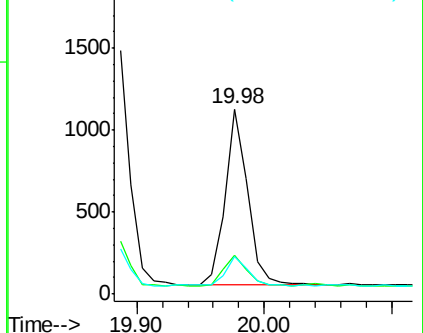
179 17.3 12.2 18.2



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

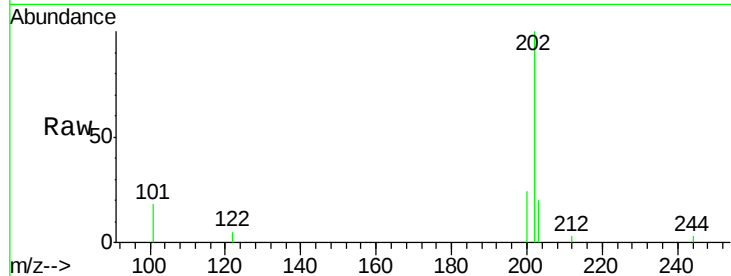




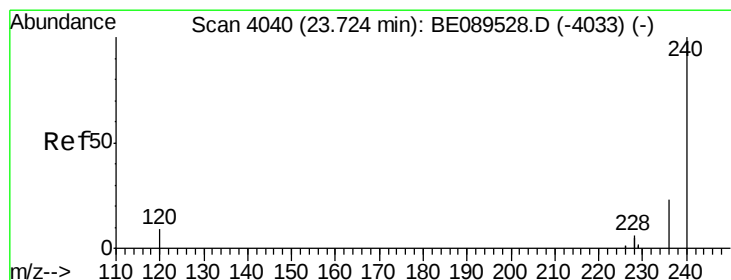
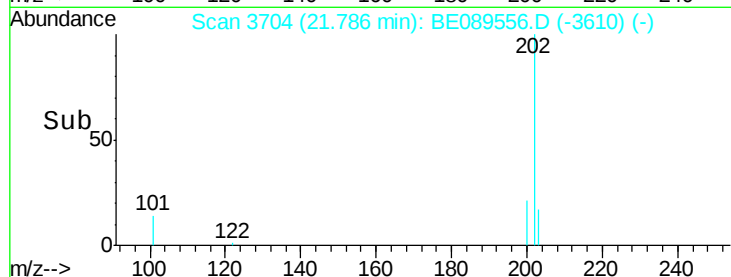
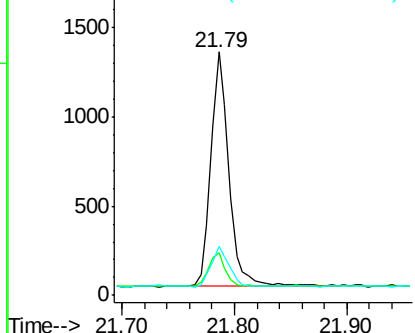
#15
 Fluoranthene
 Concen: 0.04 ng
 RT: 21.79 min Scan# 3704
 Delta R.T. -0.00 min
 Lab File: BE089556.D
 Acq: 7 Feb 2015 11:21

Instrument :
 BNA_E
 LabSampleId :
 SSTDICC001

Tgt Ion: 202 Resp: 1480
 Ion Ratio Lower Upper
 202 100
 101 13.8 11.6 17.4
 203 17.2 13.6 20.4

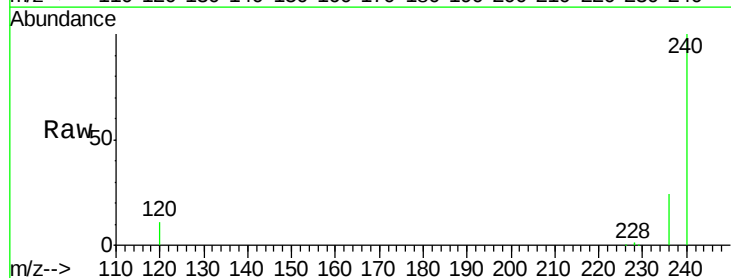


Abundance Ion 202.00 (201.70 to 202.70): E
 Ion 101.00 (100.70 to 101.70): E
 Ion 203.00 (202.70 to 203.70): E

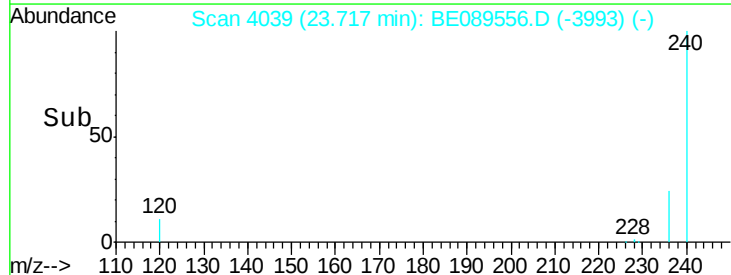
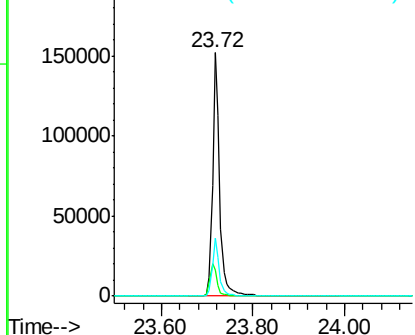


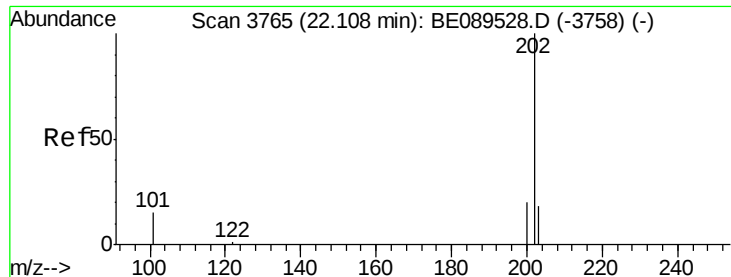
#16
 Chrysene-d12
 Concen: 5.00 ng
 RT: 23.72 min Scan# 4039
 Delta R.T. -0.01 min
 Lab File: BE089556.D
 Acq: 7 Feb 2015 11:21

Tgt Ion: 240 Resp: 166074
 Ion Ratio Lower Upper
 240 100
 120 10.8 7.2 10.8#
 236 24.1 18.5 27.7



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





#17

Pyrene

Concen: 0.04 ng

RT: 22.10 min Scan# 3764

Delta R.T. -0.00 min

Lab File: BE089556.D

Acq: 7 Feb 2015 11:21

Instrument :

BNA_E

LabSampleId :

SSTDICCC001

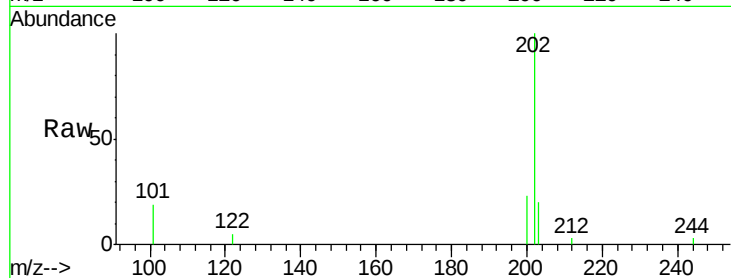
Tgt Ion:202 Resp: 1560

Ion Ratio Lower Upper

202 100

200 21.3 16.3 24.5

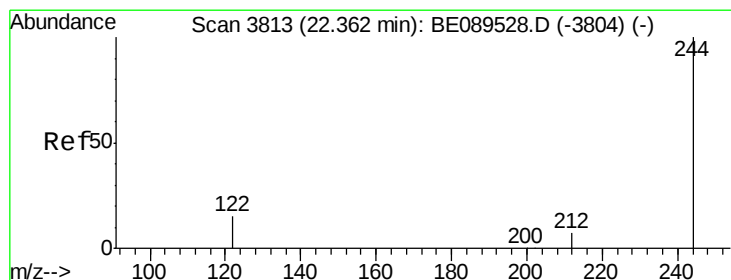
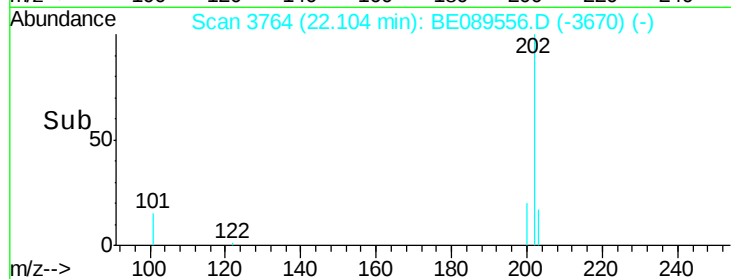
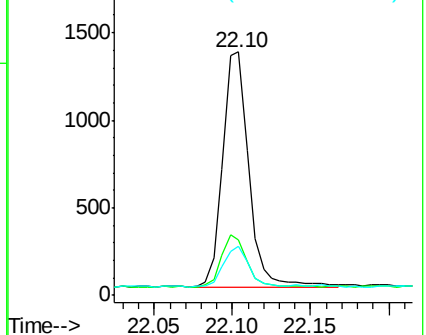
203 17.2 13.5 20.3



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



#18

Terphenyl-d14

Concen: 7.88 ng

RT: 22.36 min Scan# 3813

Delta R.T. 0.00 min

Lab File: BE089556.D

Acq: 7 Feb 2015 11:21

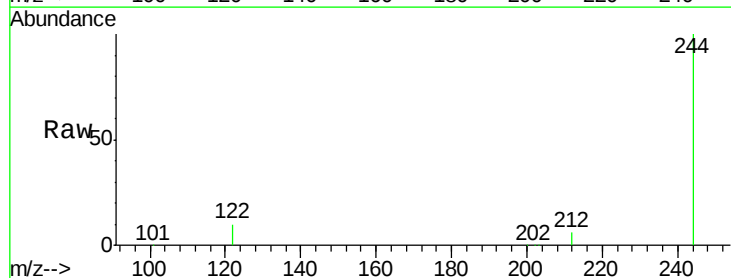
Tgt Ion:244 Resp: 172732

Ion Ratio Lower Upper

244 100

212 6.5 5.8 8.8

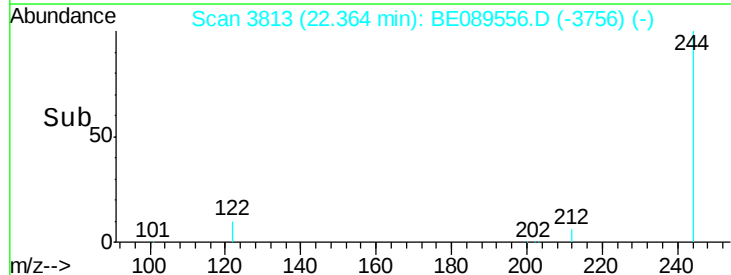
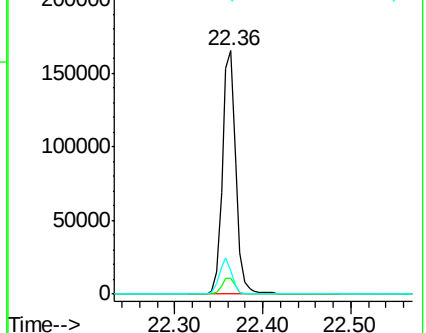
122 9.7 12.6 19.0#

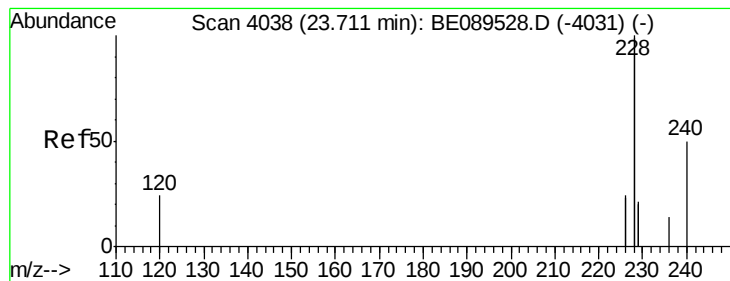


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#19

Benzo(a)anthracene

Concen: 0.05 ng

RT: 23.71 min Scan# 4038

Delta R.T. -0.00 min

Lab File: BE089556.D

Acq: 7 Feb 2015 11:21

Instrument :

BNA_E

LabSampleId :

SSTDICCC001

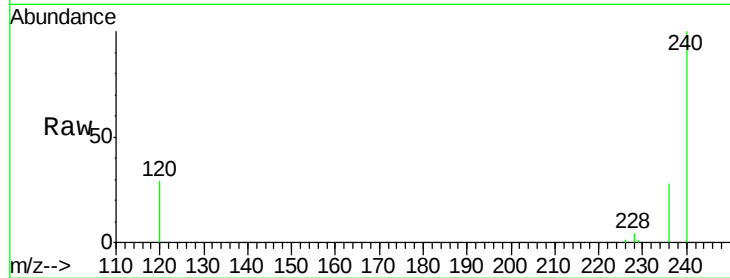
Tgt Ion:228 Resp: 7428

Ion Ratio Lower Upper

228 100

226 22.8 19.0 28.4

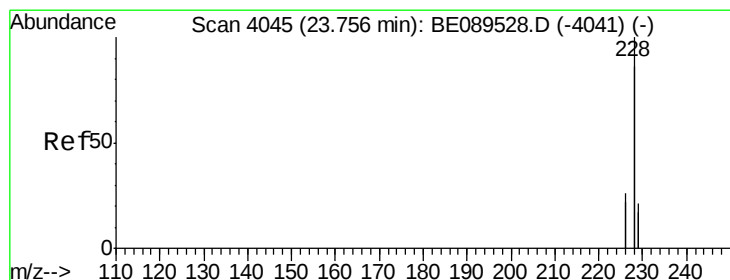
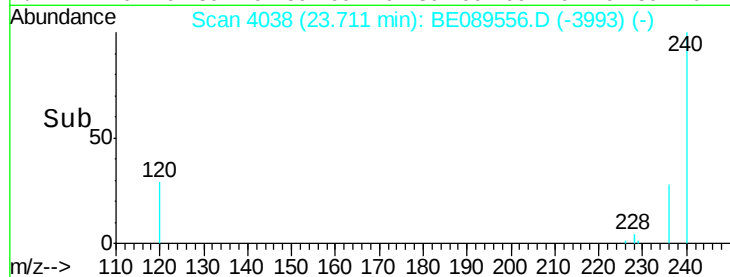
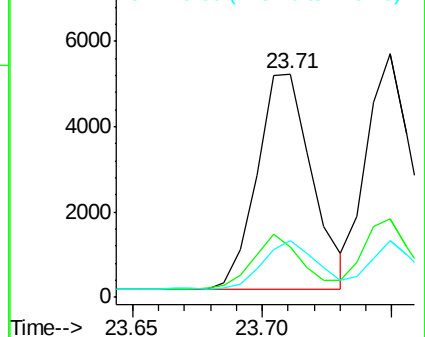
229 25.2 16.8 25.2



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: 0.06 ng

RT: 23.75 min Scan# 4044

Delta R.T. -0.01 min

Lab File: BE089556.D

Acq: 7 Feb 2015 11:21

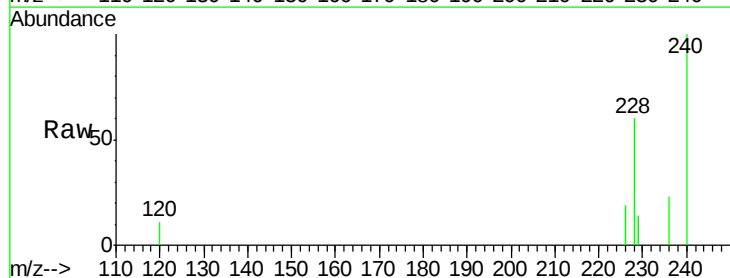
Tgt Ion:228 Resp: 8316

Ion Ratio Lower Upper

228 100

226 32.2 21.0 31.4#

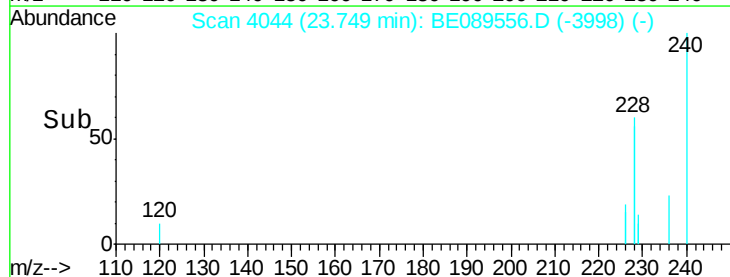
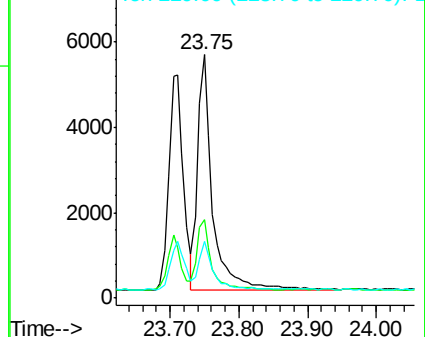
229 23.6 16.7 25.1

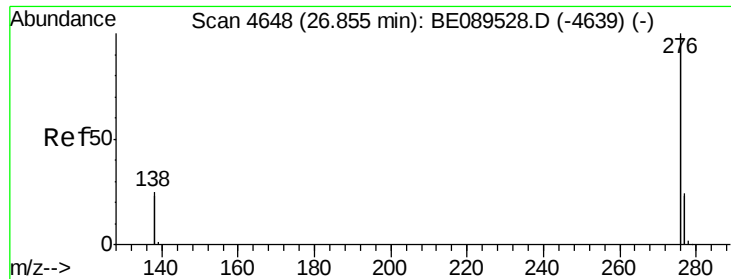


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

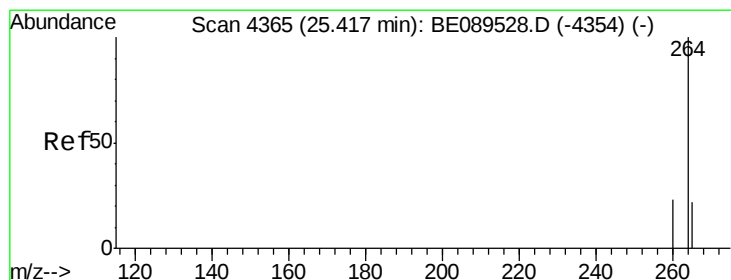
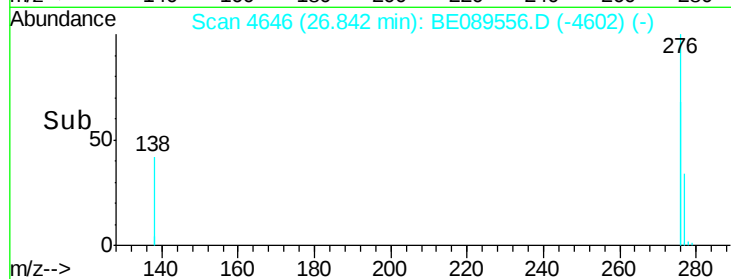
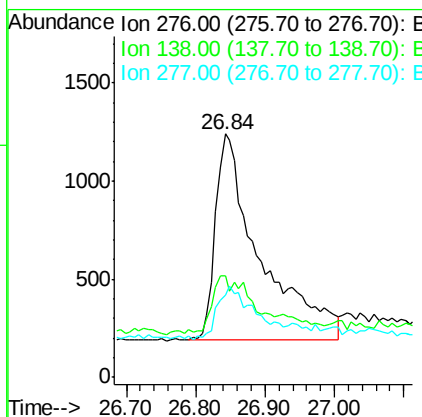
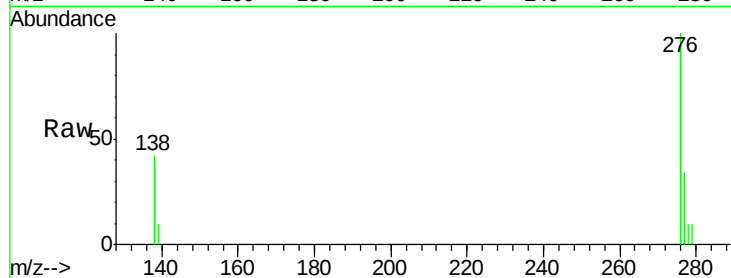




#21
 Indeno(1,2,3-cd)pyrene
 Concen: 0.02 ng
 RT: 26.84 min Scan# 4646
 Delta R.T. -0.01 min
 Lab File: BE089556.D
 Acq: 7 Feb 2015 11:21

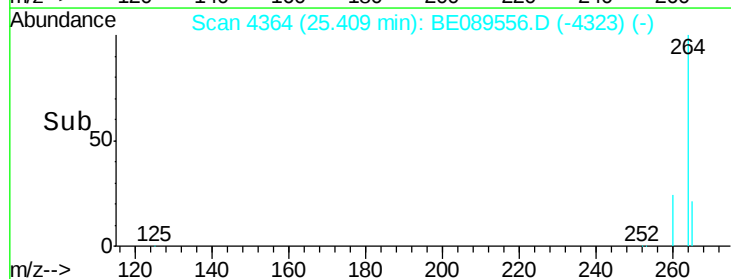
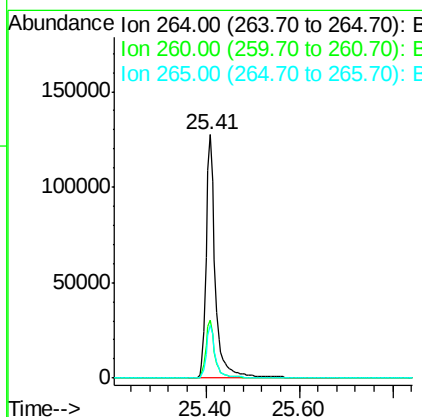
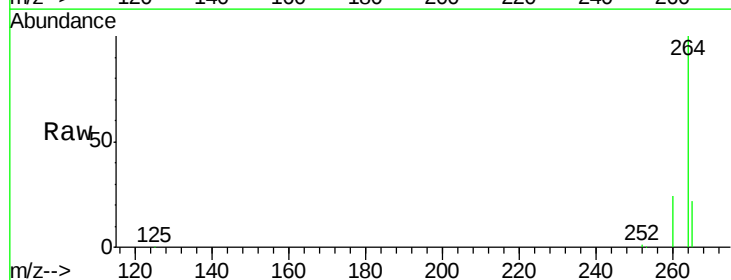
Instrument :
 BNA_E
 LabSampleId :
 SSTDICC001

Tgt Ion: 276 Resp: 4662
 Ion Ratio Lower Upper
 276 100
 138 22.9 23.0 34.4#
 277 21.6 19.9 29.9



#22
 Perylene-d12
 Concen: 5.00 ng
 RT: 25.41 min Scan# 4364
 Delta R.T. -0.01 min
 Lab File: BE089556.D
 Acq: 7 Feb 2015 11:21

Tgt Ion: 264 Resp: 174280
 Ion Ratio Lower Upper
 264 100
 260 23.6 18.7 28.1
 265 21.6 17.5 26.3





#23

Benzo(b)fluoranthene

Concen: 0.03 ng

RT: 24.97 min Scan# 4268

Delta R.T. -0.01 min

Lab File: BE089556.D

Acq: 7 Feb 2015 11:21

Instrument :

BNA_E

LabSampleId :

SSTDICCC001

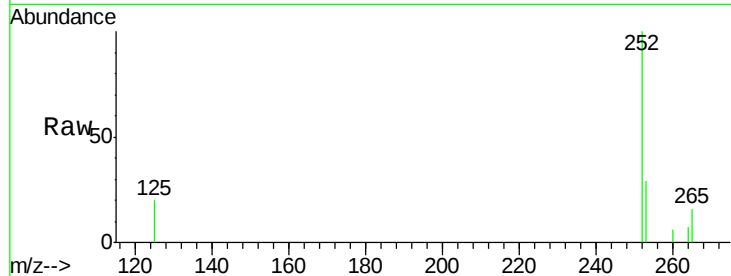
Tgt Ion:252 Resp: 902

Ion Ratio Lower Upper

252 100

253 28.6 17.4 26.0#

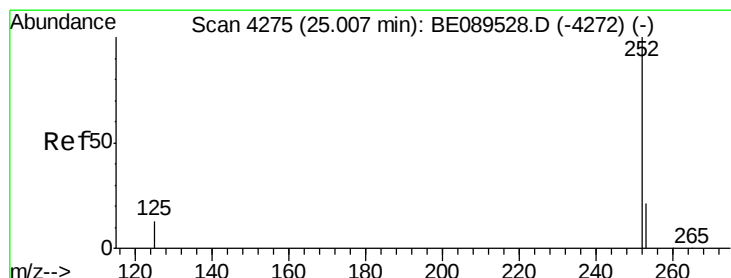
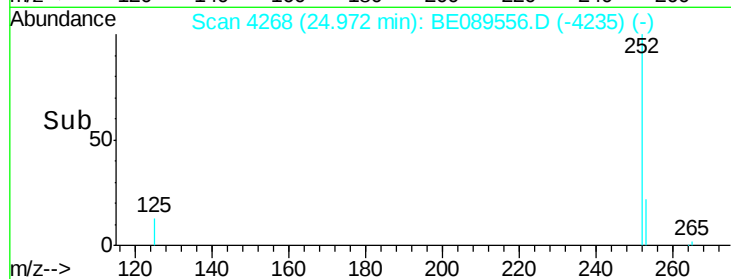
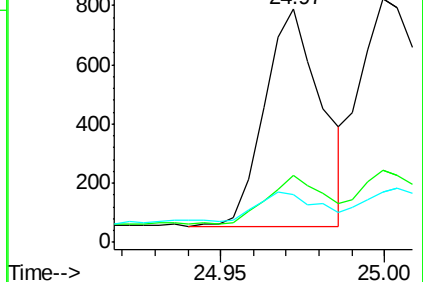
125 20.3 10.4 15.6#



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: 0.04 ng

RT: 25.00 min Scan# 4274

Delta R.T. -0.01 min

Lab File: BE089556.D

Acq: 7 Feb 2015 11:21

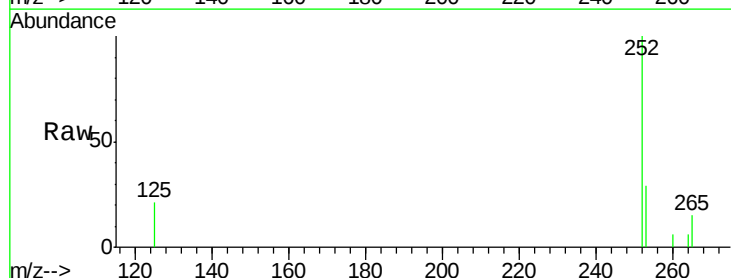
Tgt Ion:252 Resp: 1613

Ion Ratio Lower Upper

252 100

253 29.4 17.2 25.8#

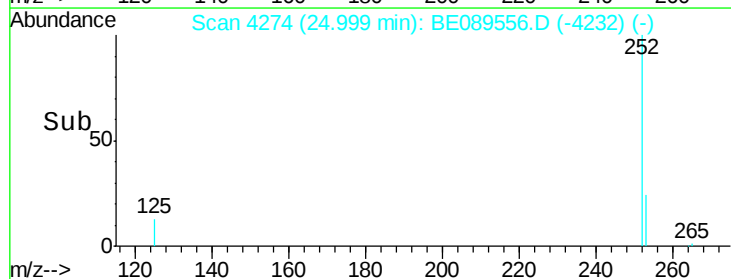
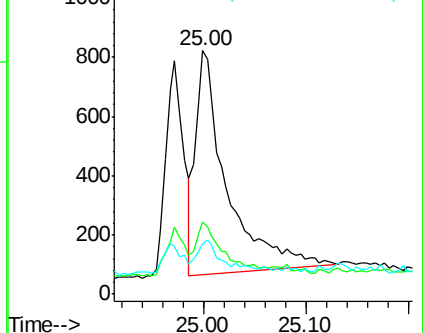
125 20.8 10.6 15.8#



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: 0.03 ng

RT: 25.34 min Scan# 4348

Delta R.T. -0.01 min

Lab File: BE089556.D

Acq: 7 Feb 2015 11:21

Instrument :

BNA_E

LabSampleId :

SSTDICCC001

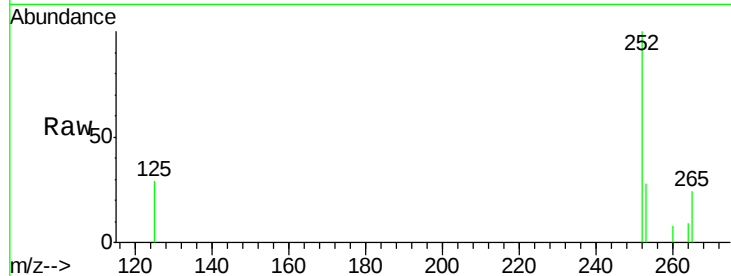
Tgt Ion: 252 Resp: 887

Ion Ratio Lower Upper

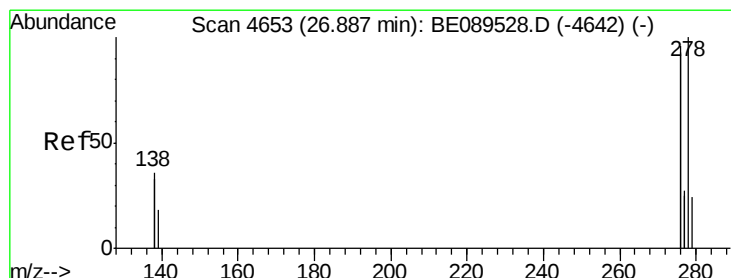
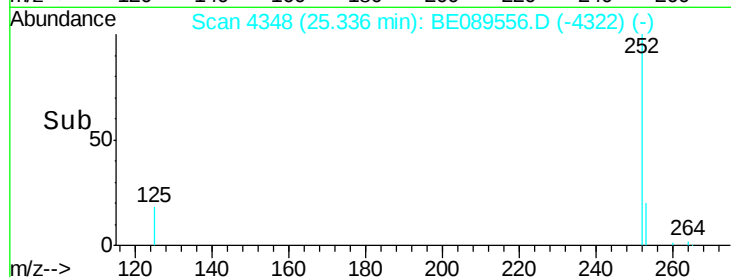
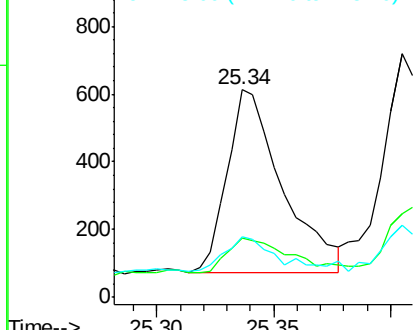
252 100

253 28.2 17.8 26.6#

125 29.2 11.4 17.2#



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



#26

Dibenzo(a,h)anthracene

Concen: 0.02 ng

RT: 26.87 min Scan# 4651

Delta R.T. -0.01 min

Lab File: BE089556.D

Acq: 7 Feb 2015 11:21

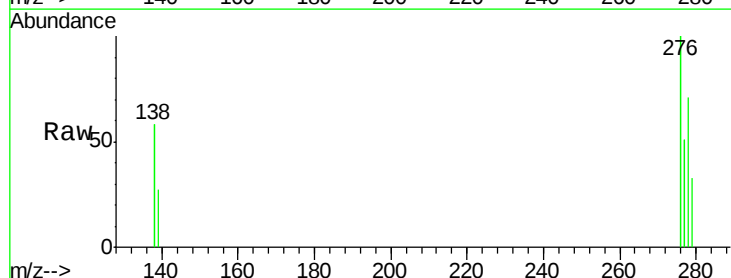
Tgt Ion: 278 Resp: 768

Ion Ratio Lower Upper

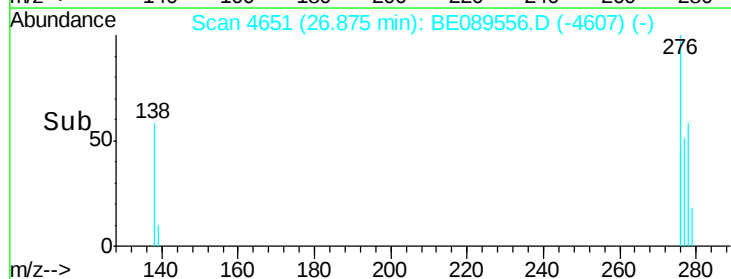
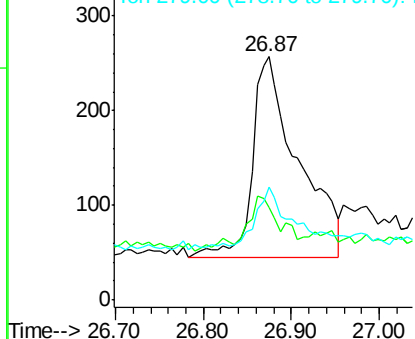
278 100

139 38.1 15.7 23.5#

279 46.3 19.5 29.3#



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: 0.03 ng

RT: 27.27 min Scan# 4712

Delta R.T. -0.01 min

Lab File: BE089556.D

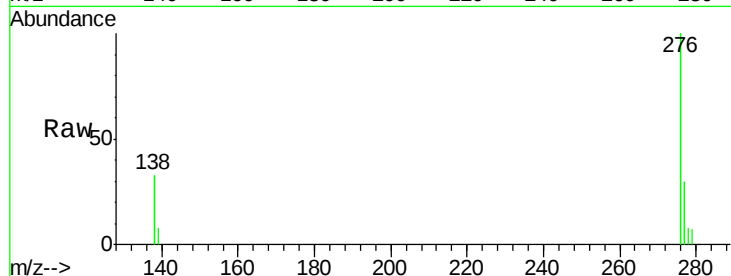
Acq: 7 Feb 2015 11:21

Instrument :

BNA_E

LabSampleId :

SSTDICCC001



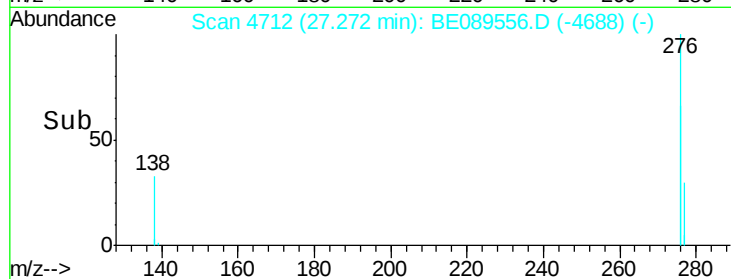
Tgt Ion: 276 Resp: 4845

Ion Ratio Lower Upper

276 100

277 30.0 18.6 27.8#

138 33.5 20.9 31.3#



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

