

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE020615\
 Data File : BE089530.D
 Acq On : 6 Feb 2015 16:30
 Operator : TP/IZ
 Sample : SSTDICC005
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_E
 LabSampleId :
 SSTDICC005

Quant Time: Feb 07 03:35:48 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 03:25:41 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.43	152	39460	5.00	ng	0.00
2) Naphthalene-d8	12.33	136	151350	5.00	ng	0.00
6) Acenaphthene-d10	16.52	164	62947	5.00	ng	0.01
11) Phenanthrene-d10	19.85	188	115575	5.00	ng	0.00
16) Chrysene-d12	23.72	240	132908	5.00	ng	0.00
22) Perylene-d12	25.41	264	139956	5.00	ng	0.00

System Monitoring Compounds						
3) Nitrobenzene-d5	10.69	82	54158	5.05	ng	0.00
7) 2-Fluorobiphenyl	14.97	172	81720	4.13	ng	0.00
18) Terphenyl-d14	22.36	244	91335	3.85	ng	0.00

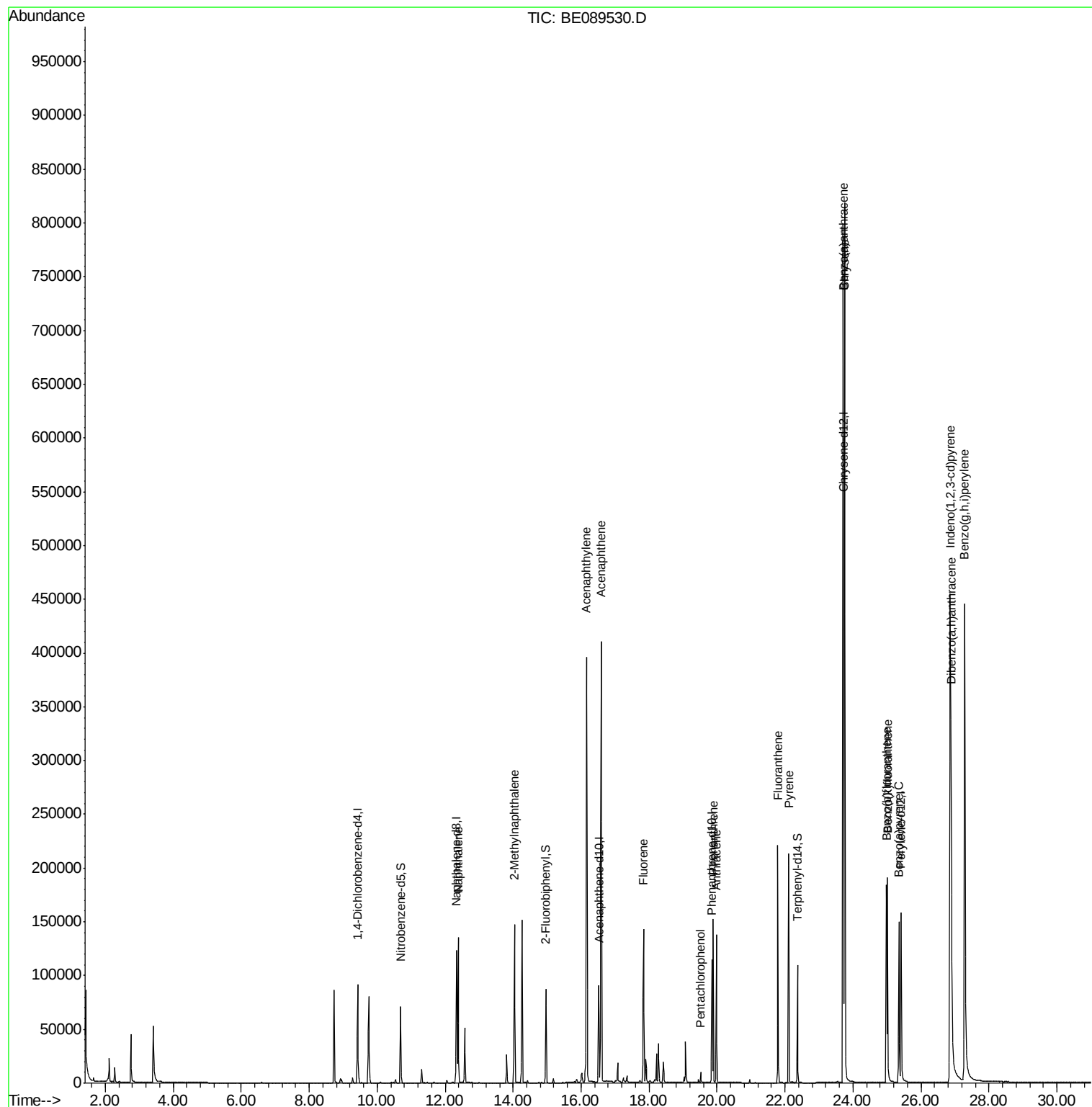
Target Compounds				Qvalue		
4) Naphthalene	12.38	128	166835	4.50	ng	99
5) 2-Methylnaphthalene	14.04	142	99029	4.19	ng	100
8) Acenaphthylene	16.16	152	563901	4.26	ng	99
9) Acenaphthene	16.59	154	82779	4.07	ng	98
10) Fluorene	17.84	166	92778	4.06	ng	98
12) Pentachlorophenol	19.52	266	5441	6.25	ng	89
13) Phenanthrene	19.89	178	140214	4.02	ng	99
14) Anthracene	19.99	178	134784	4.27	ng	100
15) Fluoranthene	21.79	202	143249	4.44	ng	99
17) Pyrene	22.11	202	151946	3.77	ng	99
19) Benzo(a)anthracene	23.71	228	602294	4.18	ng	98
20) Chrysene	23.75	228	588023	3.93	ng	97
21) Indeno(1,2,3-cd)pyrene	26.86	276	813235	4.88	ng	99
23) Benzo(b)fluoranthene	24.98	252	148422	4.79	ng	98
24) Benzo(k)fluoranthene	25.01	252	177618	3.99	ng	99
25) Benzo(a)pyrene	25.35	252	146408	4.51	ng	98
26) Dibenzo(a,h)anthracene	26.89	278	175910	4.86	ng	97
27) Benzo(g,h,i)perylene	27.29	276	677700	4.48	ng	100

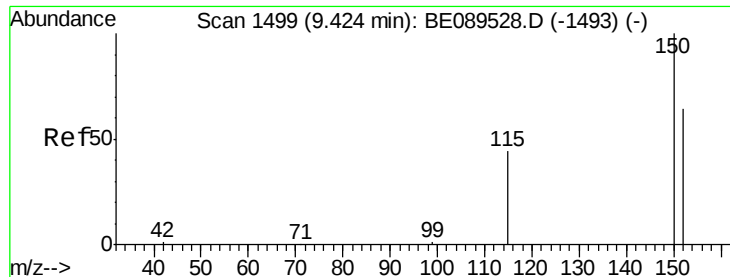
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 9.43 min Scan# 1498

Delta R.T. 0.00 min

Lab File: BE089530.D

Acq: 6 Feb 2015 16:30

Instrument :

BNA_E

LabSampleId :

SSTDICC005

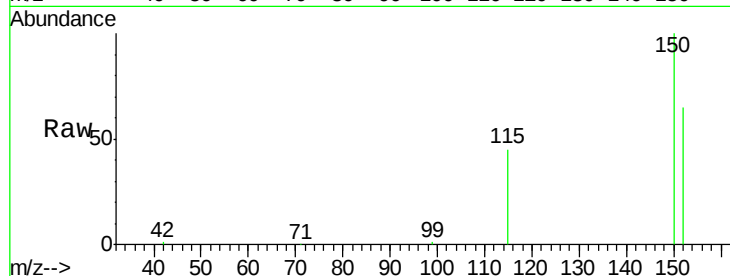
Tgt Ion:152 Resp: 39460

Ion Ratio Lower Upper

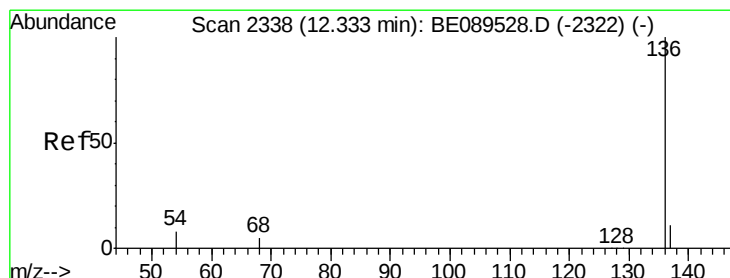
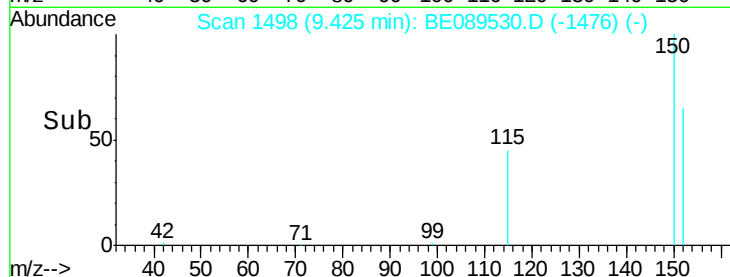
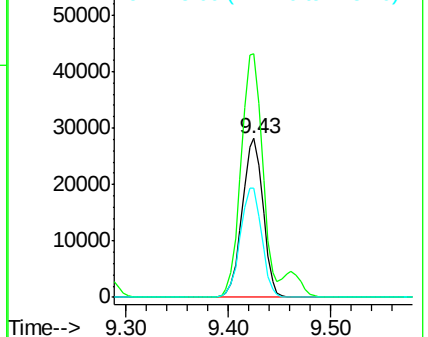
152 100

150 153.3 125.7 188.5

115 68.7 55.6 83.4



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: 12.33 min Scan# 2337

Delta R.T. 0.00 min

Lab File: BE089530.D

Acq: 6 Feb 2015 16:30

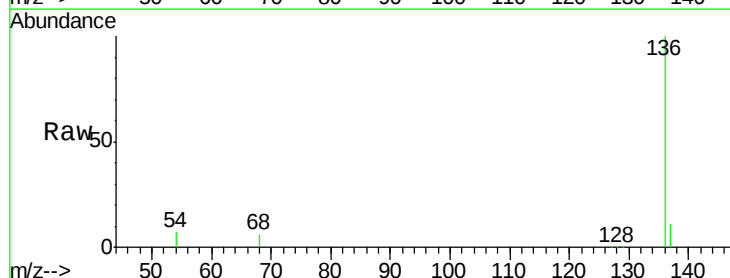
Tgt Ion:136 Resp: 151350

Ion Ratio Lower Upper

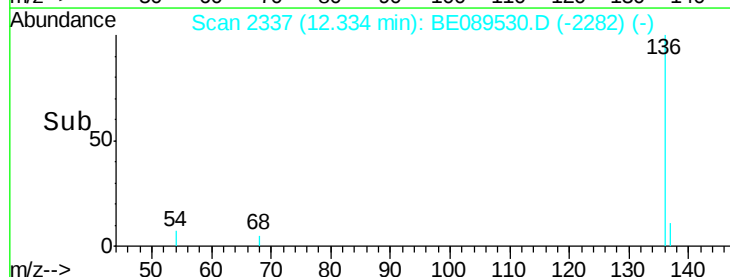
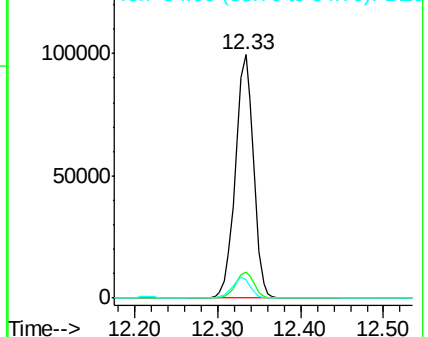
136 100

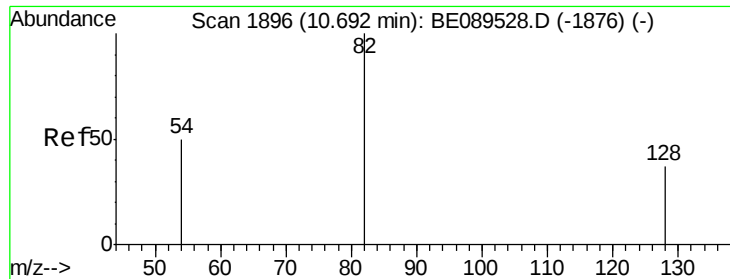
137 10.8 8.7 13.1

54 7.5 6.1 9.1



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: 5.05 ng

RT: 10.69 min Scan# 1895

Delta R.T. -0.00 min

Lab File: BE089530.D

Acq: 6 Feb 2015 16:30

Instrument :

BNA_E

LabSampleId :

SSTDIC005

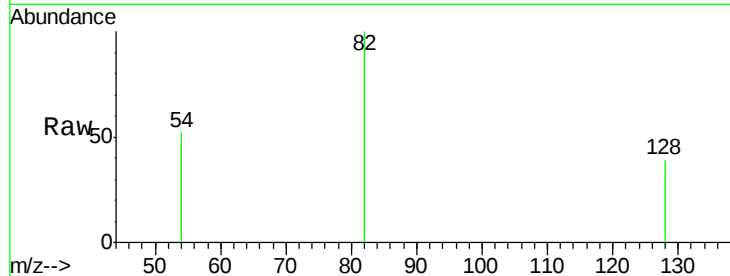
Tgt Ion: 82 Resp: 54158

Ion Ratio Lower Upper

82 100

128 39.2 30.2 45.4

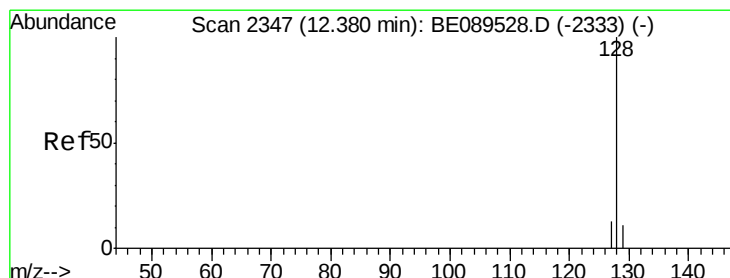
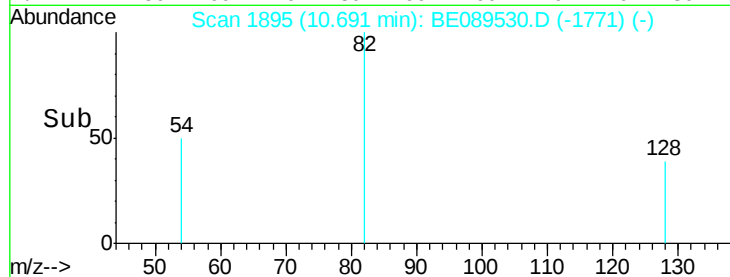
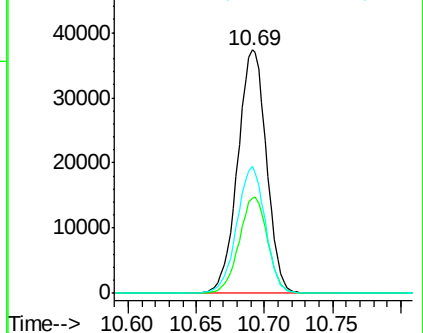
54 52.0 40.6 60.8



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: 4.50 ng

RT: 12.38 min Scan# 2346

Delta R.T. 0.00 min

Lab File: BE089530.D

Acq: 6 Feb 2015 16:30

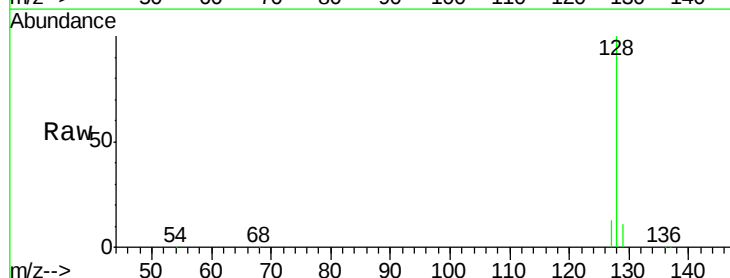
Tgt Ion: 128 Resp: 166835

Ion Ratio Lower Upper

128 100

129 11.0 9.1 13.7

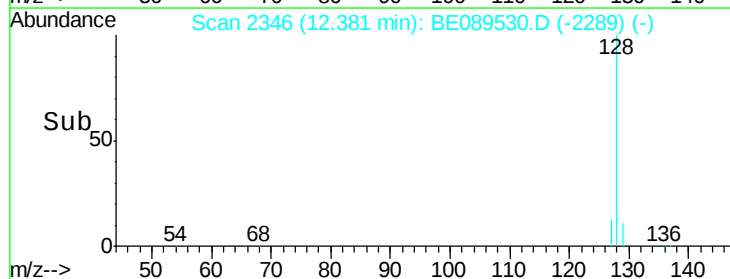
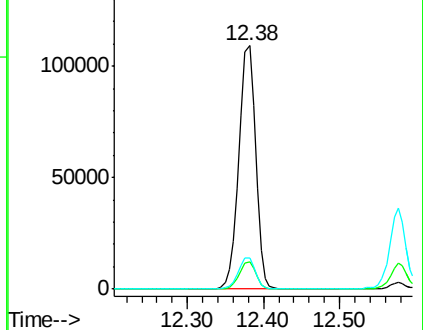
127 12.6 10.5 15.7



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: 4.19 ng

RT: 14.04 min Scan# 2678

Delta R.T. 0.00 min

Lab File: BE089530.D

Acq: 6 Feb 2015 16:30

Instrument :

BNA_E

LabSampleId :

SSTDIC005

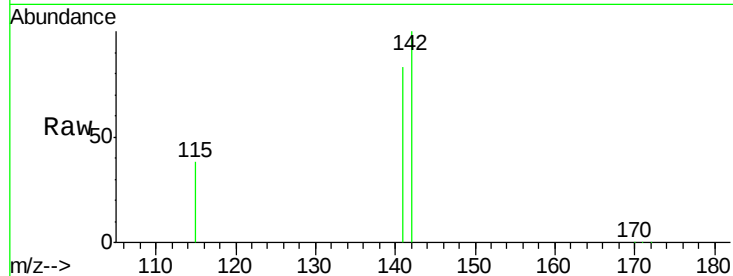
Tgt Ion:142 Resp: 99029

Ion Ratio Lower Upper

142 100

141 83.5 67.0 100.6

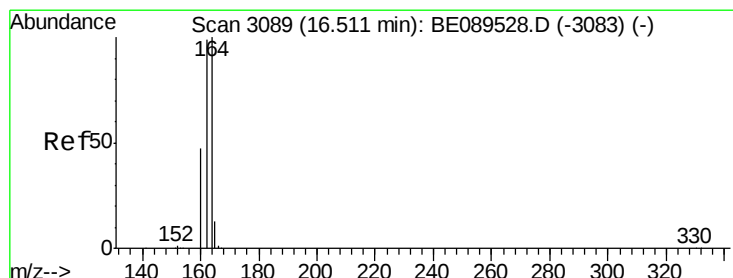
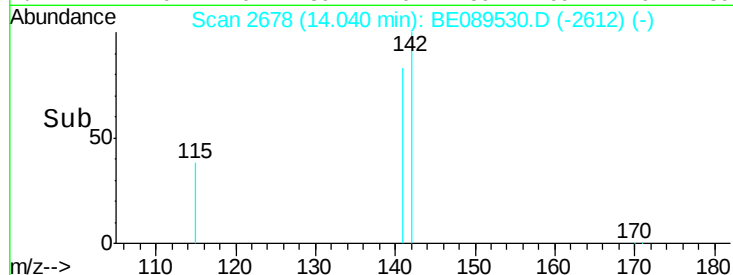
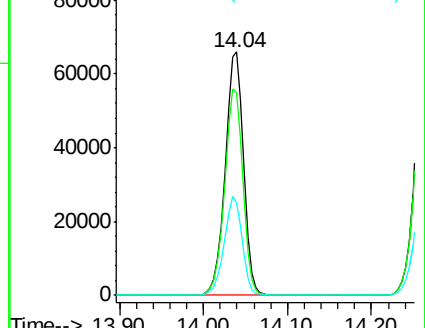
115 38.1 30.6 45.8



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: 16.52 min Scan# 3089

Delta R.T. 0.01 min

Lab File: BE089530.D

Acq: 6 Feb 2015 16:30

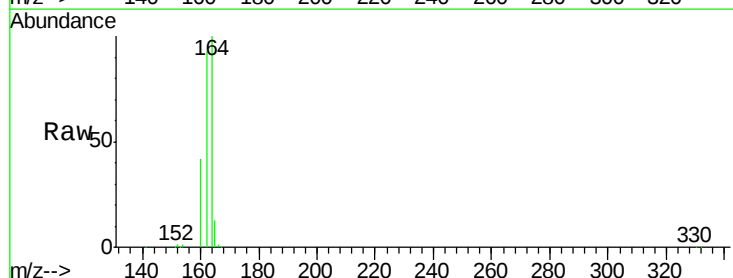
Tgt Ion:164 Resp: 62947

Ion Ratio Lower Upper

164 100

162 93.1 79.5 119.3

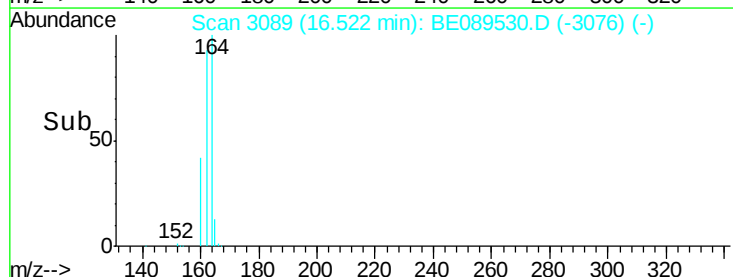
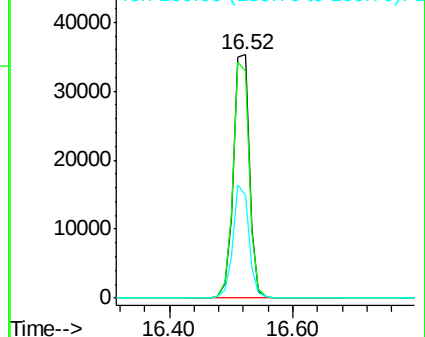
160 42.1 37.6 56.4



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: 4.13 ng

RT: 14.97 min Scan# 2882

Delta R.T. 0.00 min

Lab File: BE089530.D

Acq: 6 Feb 2015 16:30

Instrument :

BNA_E

LabSampleId :

SSTDIC005

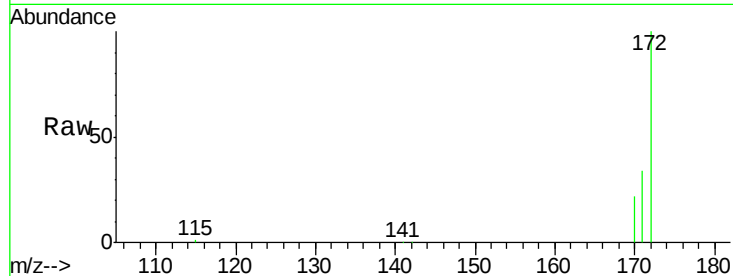
Tgt Ion:172 Resp: 81720

Ion Ratio Lower Upper

172 100

171 33.8 27.7 41.5

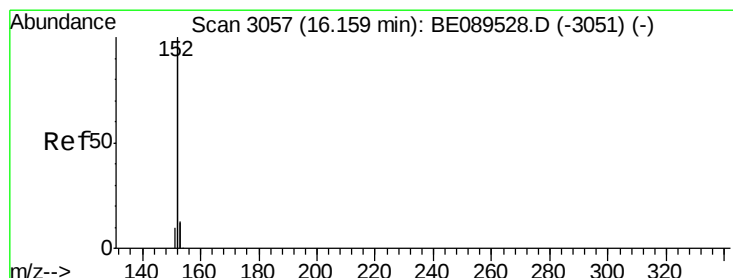
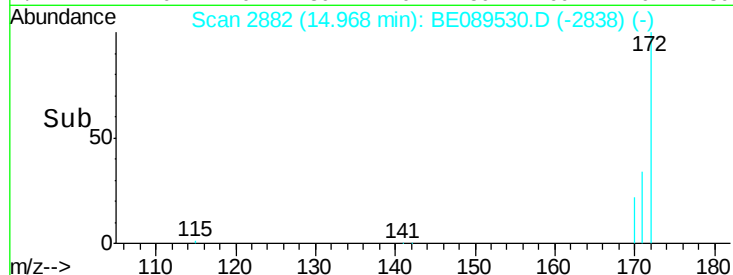
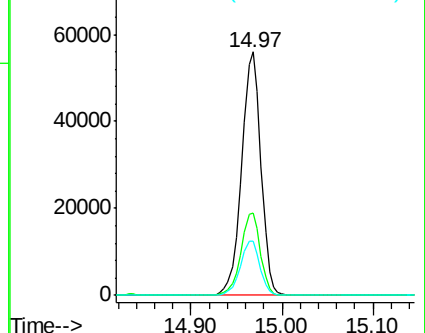
170 22.0 18.3 27.5



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: 4.26 ng

RT: 16.16 min Scan# 3056

Delta R.T. 0.00 min

Lab File: BE089530.D

Acq: 6 Feb 2015 16:30

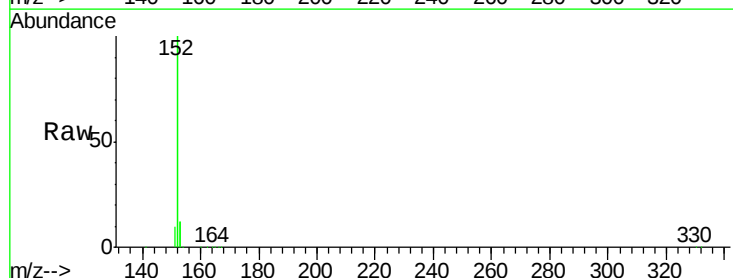
Tgt Ion:152 Resp: 563901

Ion Ratio Lower Upper

152 100

151 4.9 4.0 6.0

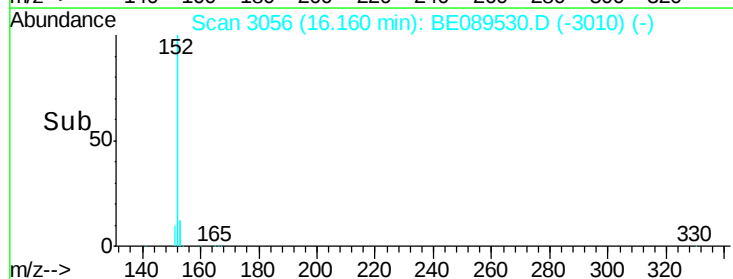
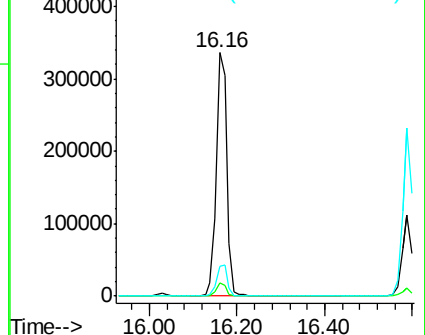
153 12.9 10.6 15.8

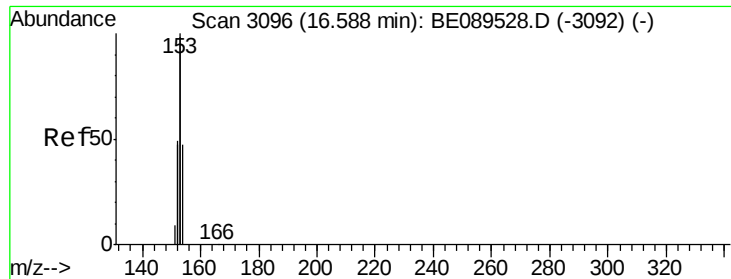


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#9

Acenaphthene

Concen: 4.07 ng

RT: 16.59 min Scan# 3095

Delta R.T. 0.00 min

Lab File: BE089530.D

Acq: 6 Feb 2015 16:30

Instrument :

BNA_E

LabSampleId :

SSTDIC005

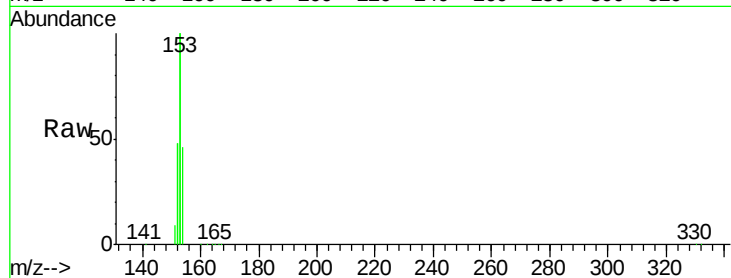
Tgt Ion:154 Resp: 82779

Ion Ratio Lower Upper

154 100

153 431.8 340.8 511.2

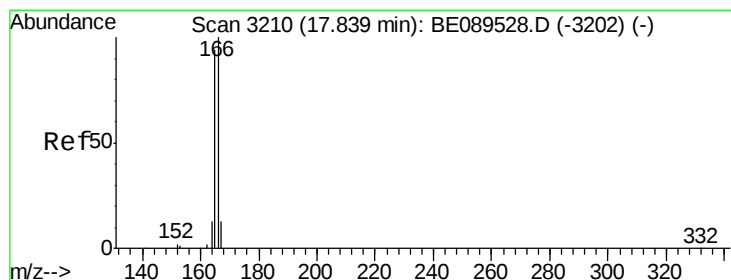
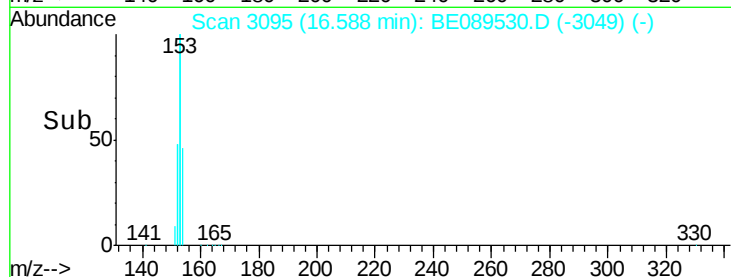
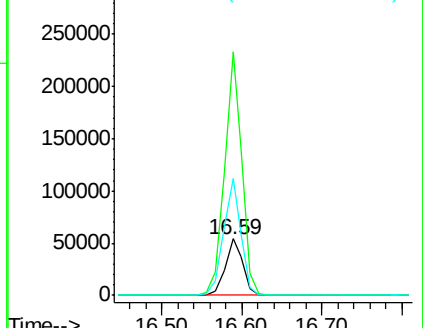
152 207.3 165.5 248.3



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: 4.06 ng

RT: 17.84 min Scan# 3209

Delta R.T. 0.00 min

Lab File: BE089530.D

Acq: 6 Feb 2015 16:30

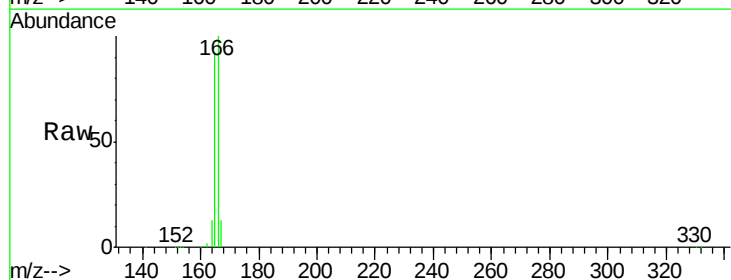
Tgt Ion:166 Resp: 92778

Ion Ratio Lower Upper

166 100

165 92.6 75.5 113.3

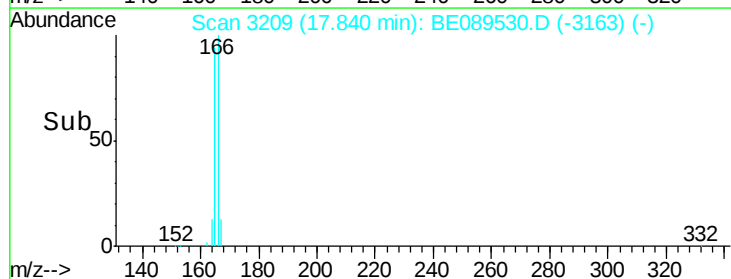
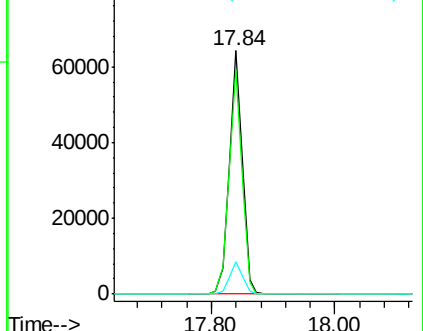
167 13.2 10.9 16.3

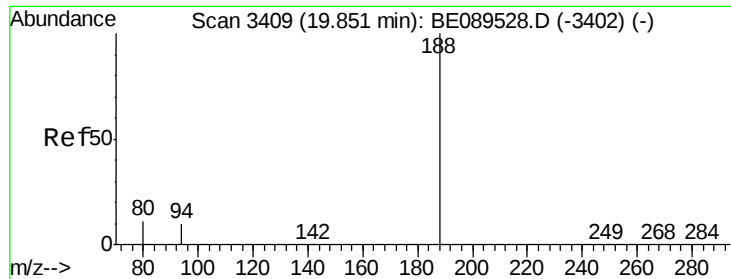


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

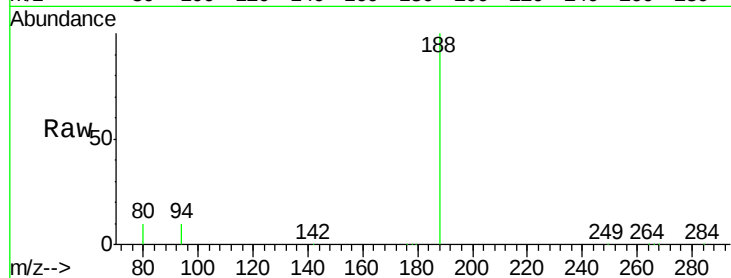




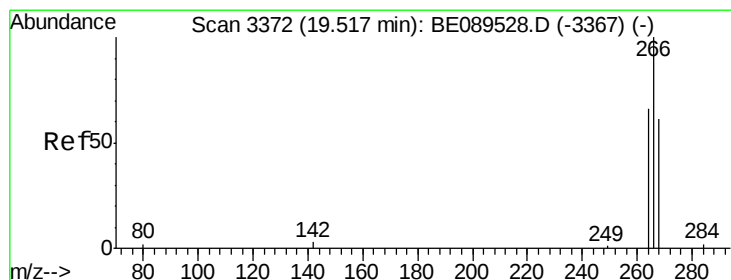
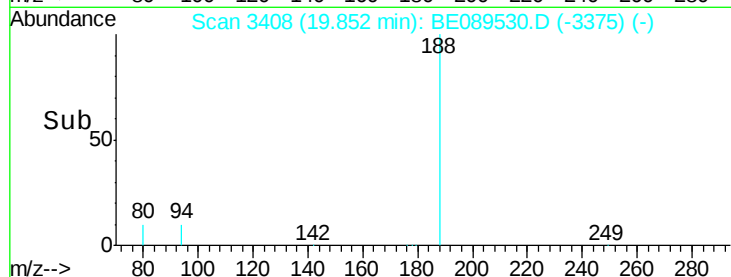
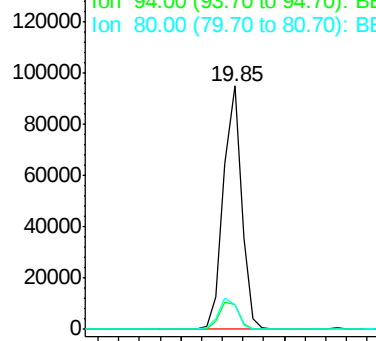
#11
Phenanthrene-d10
Concen: 5.00 ng
RT: 19.85 min Scan# 3408
Delta R.T. 0.00 min
Lab File: BE089530.D
Acq: 6 Feb 2015 16:30

Instrument :
BNA_E
LabSampleId :
SSTDIC005

Tgt Ion:188 Resp: 115575
Ion Ratio Lower Upper
188 100
94 10.0 8.4 12.6
80 10.3 8.6 12.8

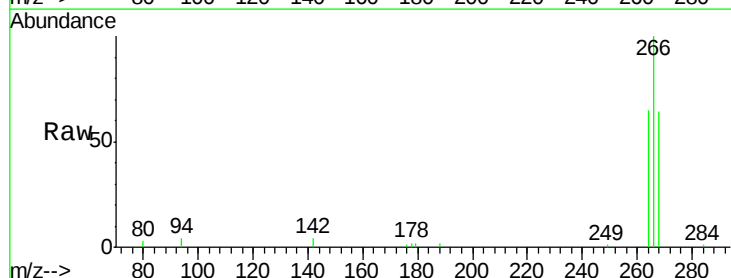


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BE0
Ion 80.00 (79.70 to 80.70): BE0

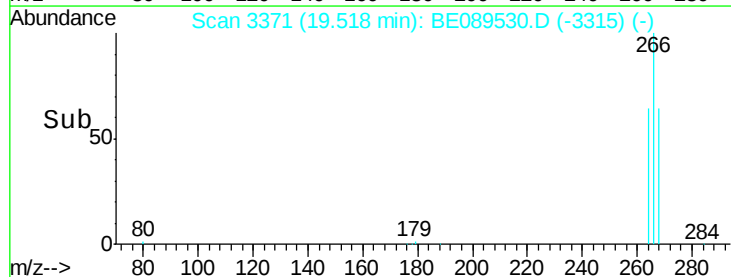
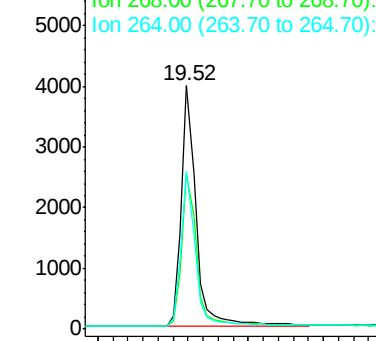


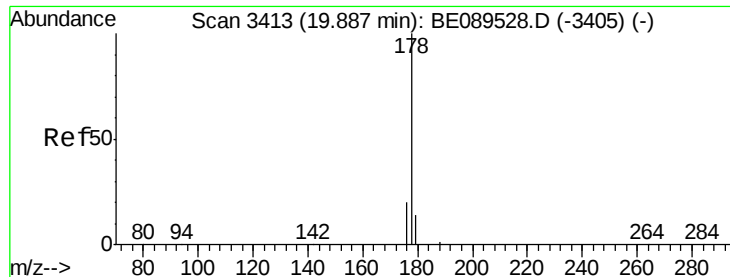
#12
Pentachlorophenol
Concen: 6.25 ng
RT: 19.52 min Scan# 3371
Delta R.T. 0.00 min
Lab File: BE089530.D
Acq: 6 Feb 2015 16:30

Tgt Ion:266 Resp: 5441
Ion Ratio Lower Upper
266 100
268 64.0 57.9 86.9
264 64.6 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: 4.02 ng

RT: 19.89 min Scan# 3412

Delta R.T. 0.00 min

Lab File: BE089530.D

Acq: 6 Feb 2015 16:30

Instrument :

BNA_E

LabSampleId :

SSTDICC005

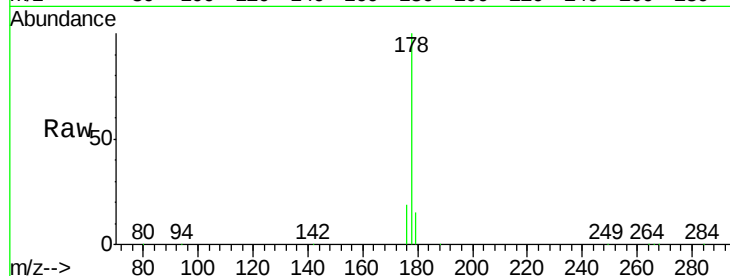
Tgt Ion:178 Resp: 140214

Ion Ratio Lower Upper

178 100

176 18.8 15.4 23.0

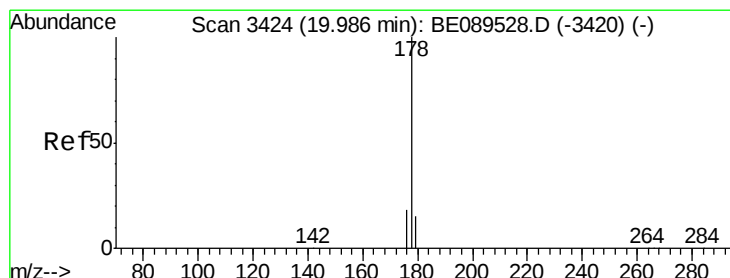
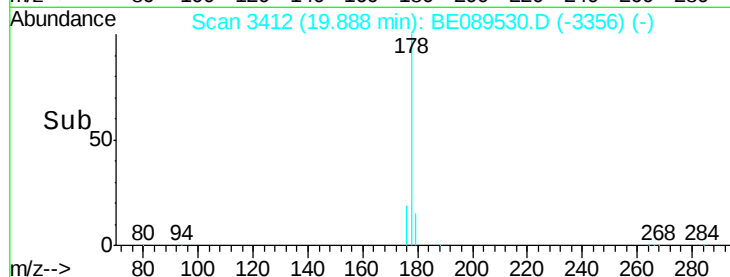
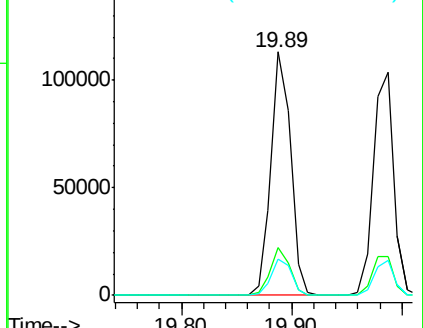
179 15.1 12.2 18.2



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: 4.27 ng

RT: 19.99 min Scan# 3423

Delta R.T. 0.00 min

Lab File: BE089530.D

Acq: 6 Feb 2015 16:30

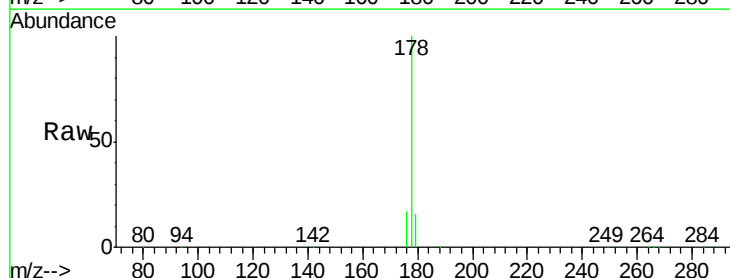
Tgt Ion:178 Resp: 134784

Ion Ratio Lower Upper

178 100

176 18.1 14.5 21.7

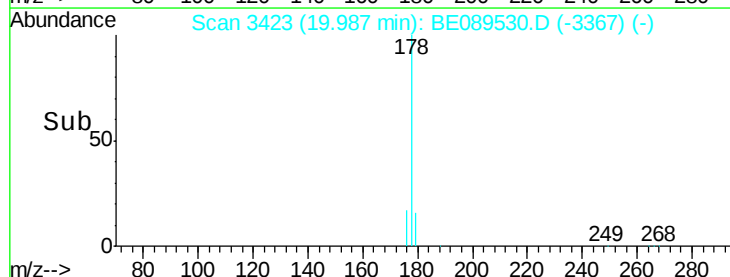
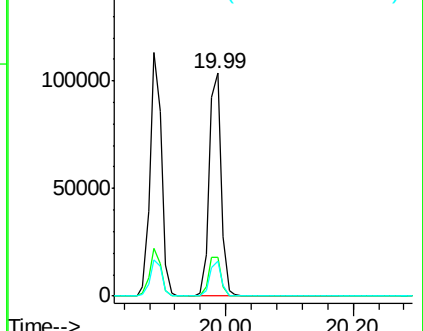
179 15.2 12.2 18.2

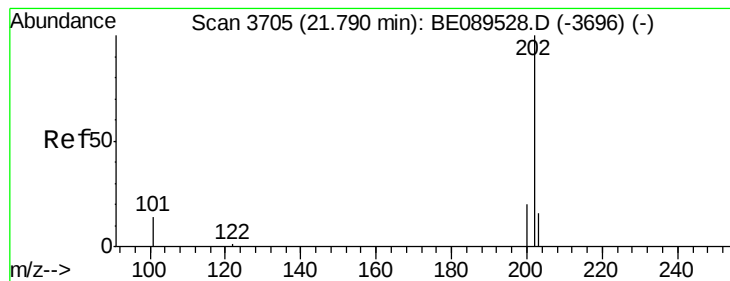


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#15

Fluoranthene

Concen: 4.44 ng

RT: 21.79 min Scan# 3704

Delta R.T. 0.00 min

Lab File: BE089530.D

Acq: 6 Feb 2015 16:30

Instrument :

BNA_E

LabSampleId :

SSTDIC005

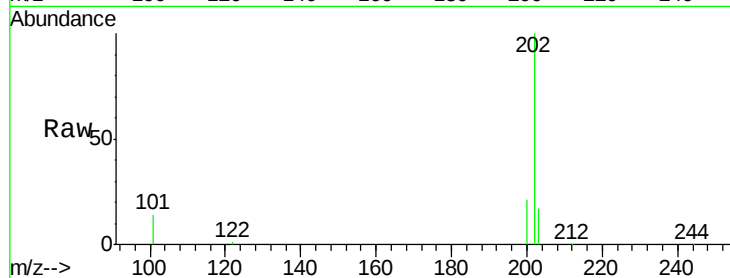
Tgt Ion:202 Resp: 143249

Ion Ratio Lower Upper

202 100

101 14.2 11.6 17.4

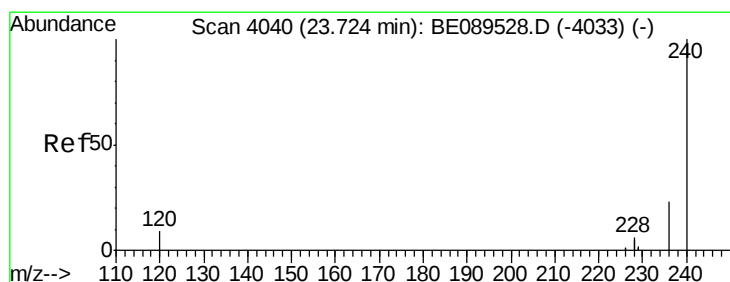
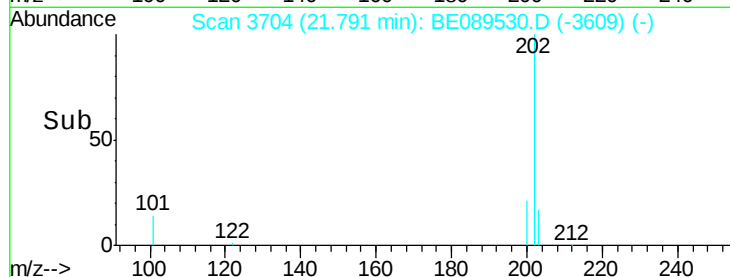
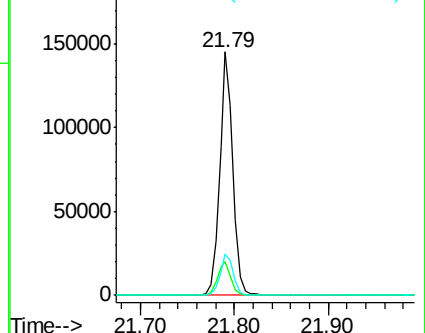
203 17.2 13.6 20.4



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. -0.00 min

Lab File: BE089530.D

Acq: 6 Feb 2015 16:30

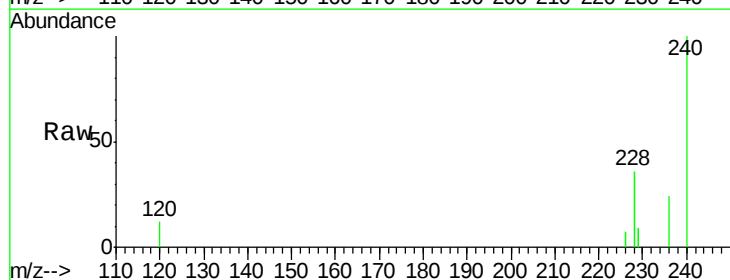
Tgt Ion:240 Resp: 132908

Ion Ratio Lower Upper

240 100

120 12.4 7.2 10.8#

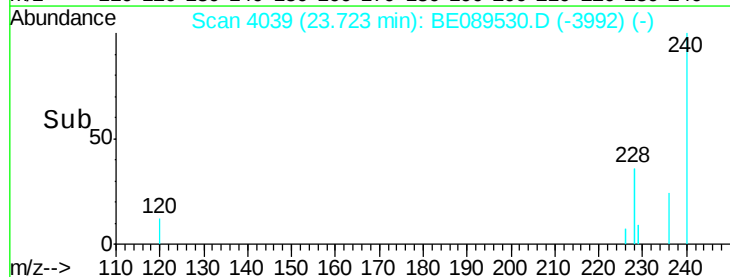
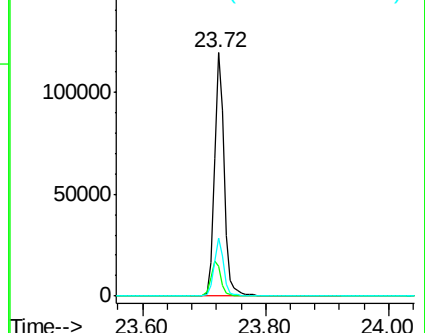
236 23.9 18.5 27.7

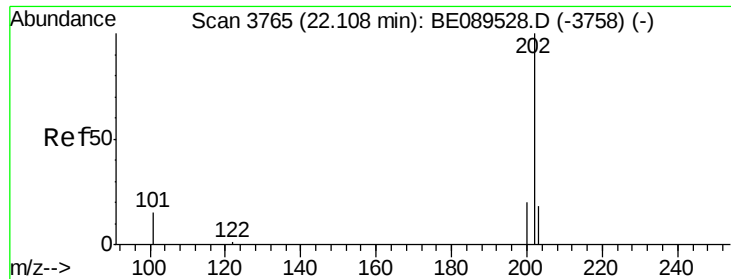


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

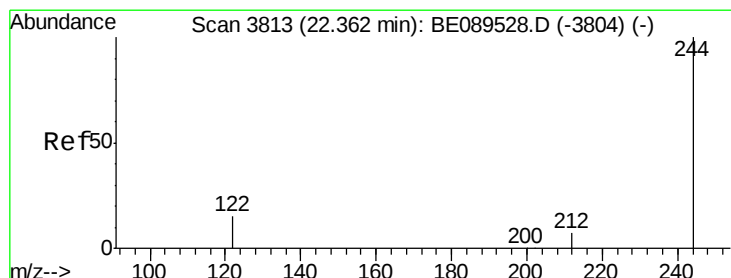
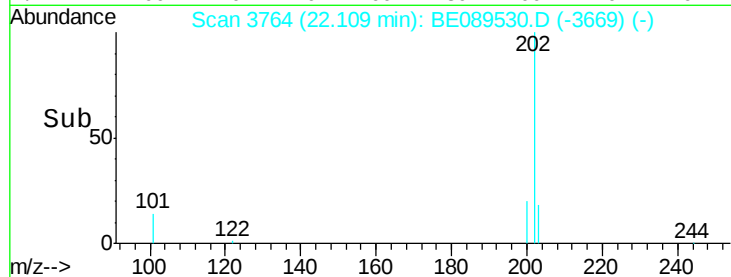
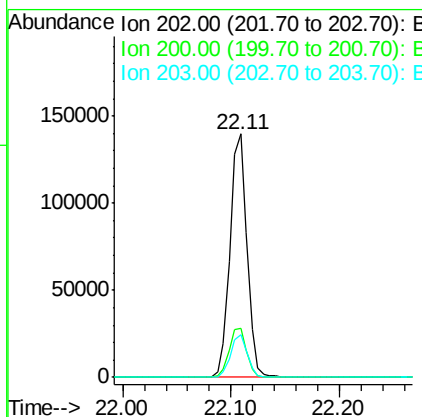
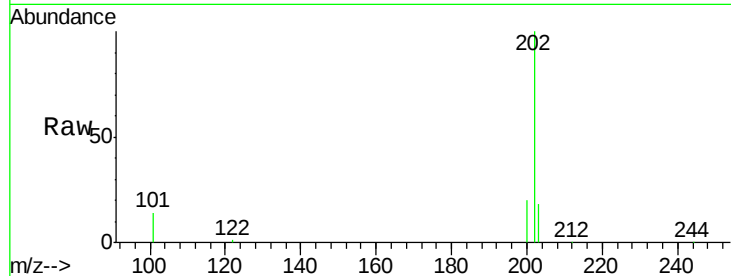




#17
 Pyrene
 Concen: 3.77 ng
 RT: 22.11 min Scan# 3764
 Delta R.T. 0.00 min
 Lab File: BE089530.D
 Acq: 6 Feb 2015 16:30

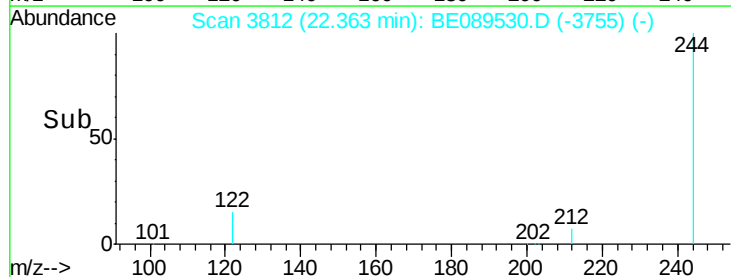
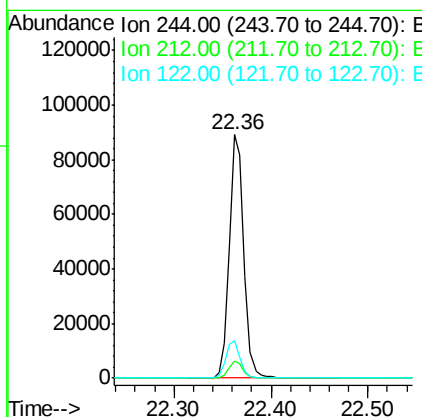
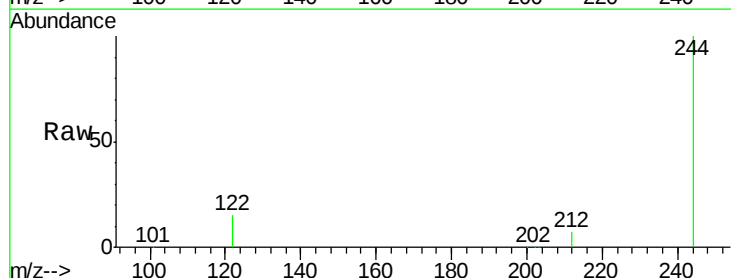
Instrument :
 BNA_E
 LabSampleId :
 SSTDICC005

Tgt Ion: 202 Resp: 151946
 Ion Ratio Lower Upper
 202 100
 200 20.6 16.3 24.5
 203 17.4 13.5 20.3



#18
 Terphenyl-d14
 Concen: 3.85 ng
 RT: 22.36 min Scan# 3812
 Delta R.T. 0.00 min
 Lab File: BE089530.D
 Acq: 6 Feb 2015 16:30

Tgt Ion: 244 Resp: 91335
 Ion Ratio Lower Upper
 244 100
 212 6.9 5.8 8.8
 122 15.2 12.6 19.0





#19

Benzo(a)anthracene

Concen: 4.18 ng

RT: 23.71 min Scan# 4037

Delta R.T. -0.00 min

Lab File: BE089530.D

Acq: 6 Feb 2015 16:30

Instrument :

BNA_E

LabSampleId :

SSTDIC005

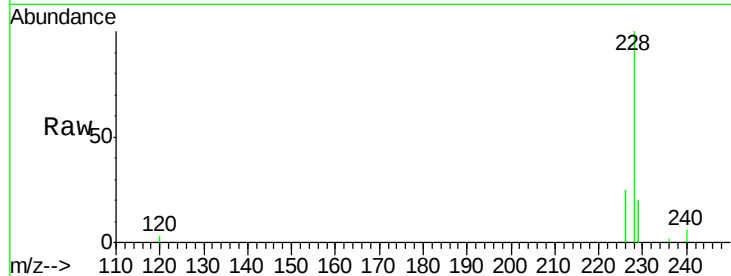
Tgt Ion:228 Resp: 602294

Ion Ratio Lower Upper

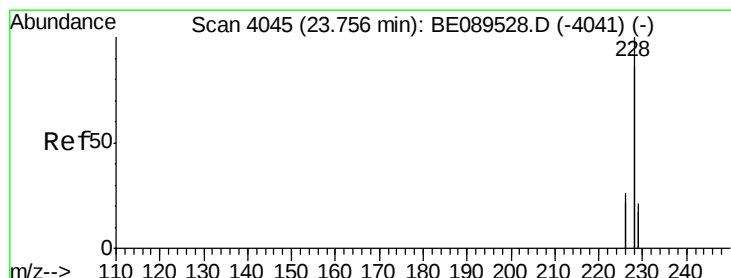
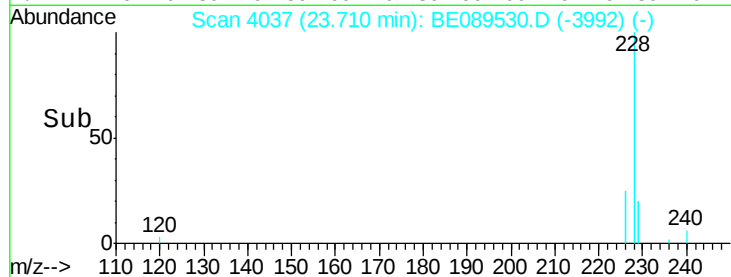
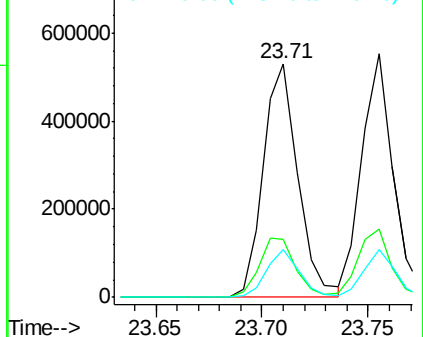
228 100

226 24.7 19.0 28.4

229 20.2 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: 3.93 ng

RT: 23.75 min Scan# 4044

Delta R.T. -0.00 min

Lab File: BE089530.D

Acq: 6 Feb 2015 16:30

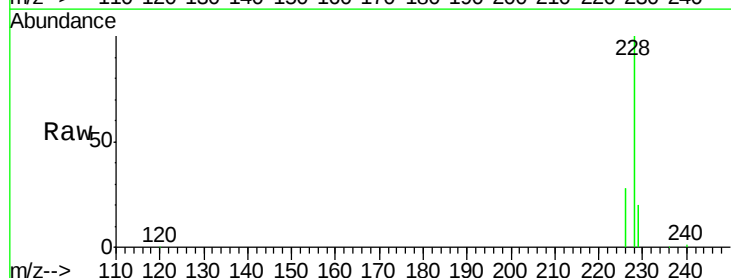
Tgt Ion:228 Resp: 588023

Ion Ratio Lower Upper

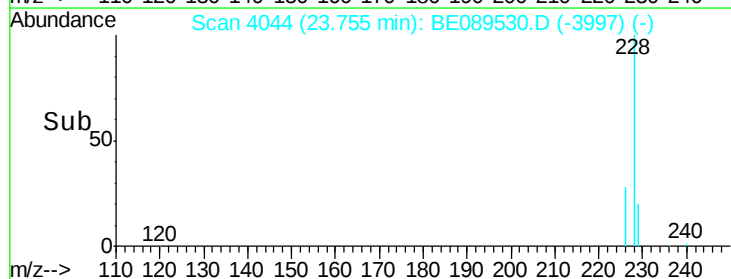
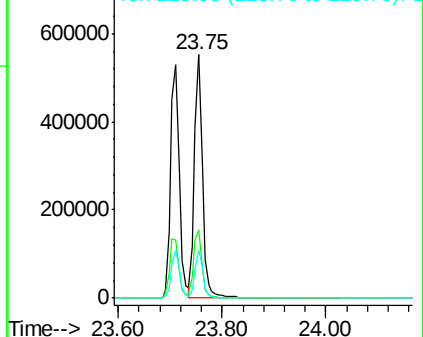
228 100

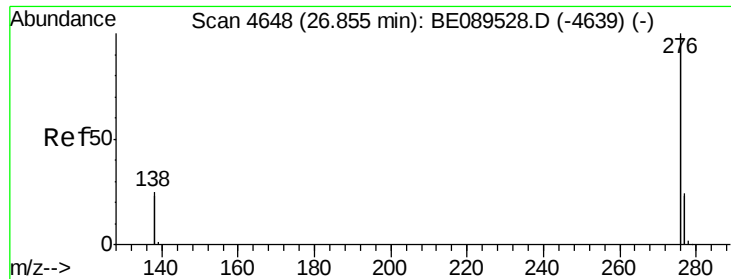
226 28.0 21.0 31.4

229 19.6 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: 4.88 ng

RT: 26.86 min Scan# 4648

Delta R.T. 0.01 min

Lab File: BE089530.D

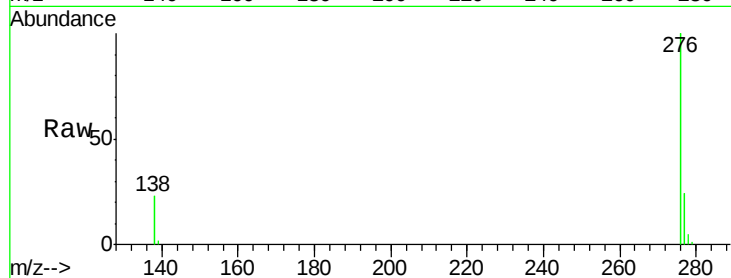
Acq: 6 Feb 2015 16:30

Instrument :

BNA_E

LabSampleId :

SSTDIC005



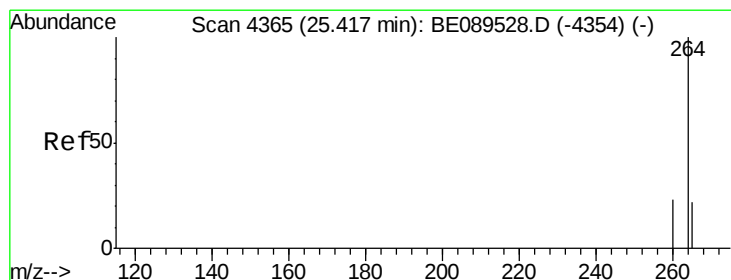
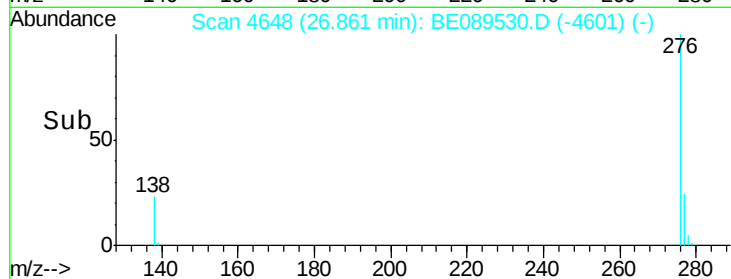
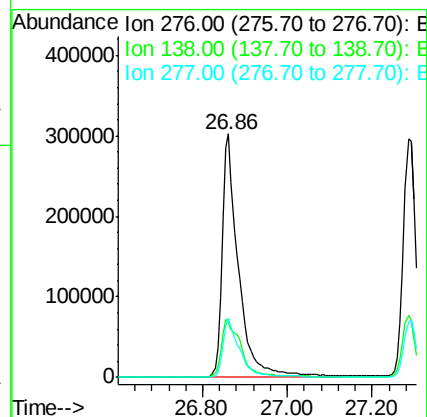
Tgt Ion:276 Resp: 813235

Ion Ratio Lower Upper

276 100

138 29.1 23.0 34.4

277 25.2 19.9 29.9



#22

Perylene-d12

Concen: 5.00 ng

RT: 25.41 min Scan# 4364

Delta R.T. -0.00 min

Lab File: BE089530.D

Acq: 6 Feb 2015 16:30

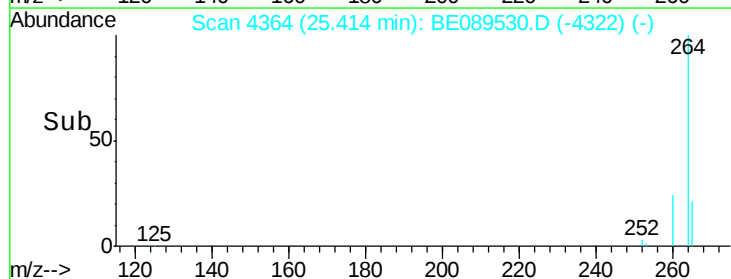
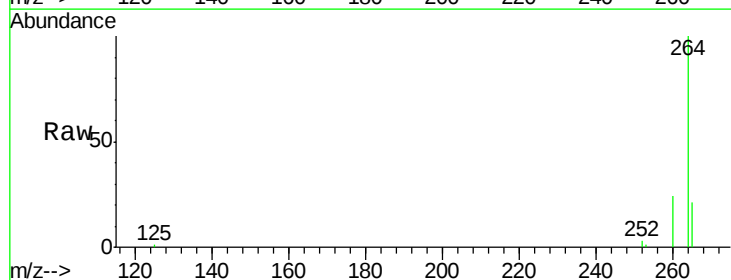
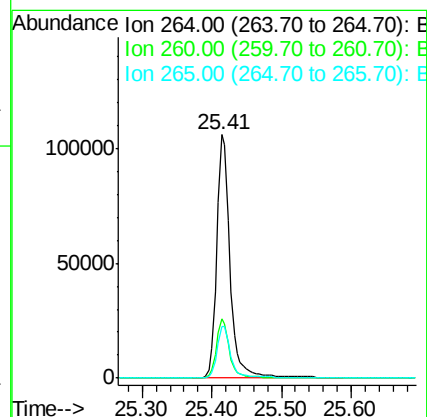
Tgt Ion:264 Resp: 139956

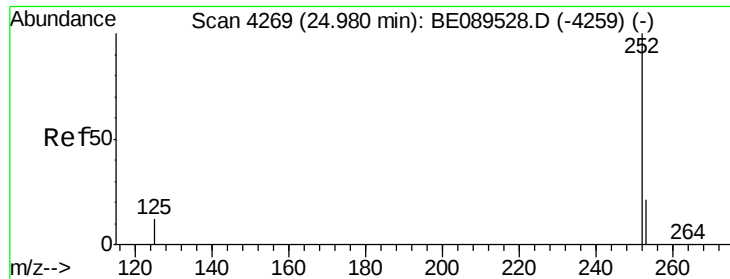
Ion Ratio Lower Upper

264 100

260 24.1 18.7 28.1

265 21.1 17.5 26.3





#23

Benzo(b)fluoranthene

Concen: 4.79 ng

RT: 24.98 min Scan# 4269

Delta R.T. 0.00 min

Lab File: BE089530.D

Acq: 6 Feb 2015 16:30

Instrument :

BNA_E

LabSampleId :

SSTDIC005

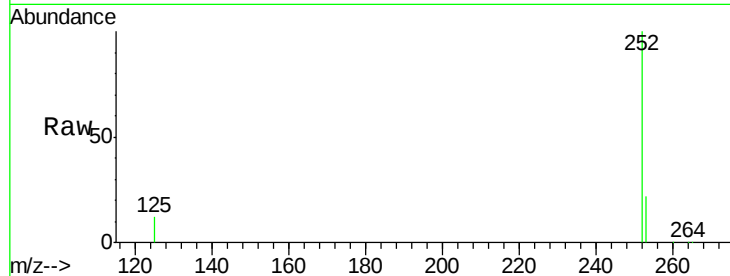
Tgt Ion:252 Resp: 148422

Ion Ratio Lower Upper

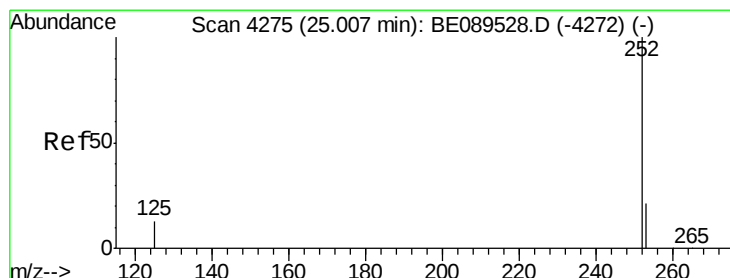
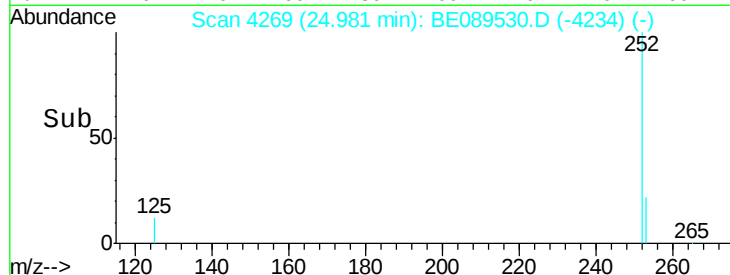
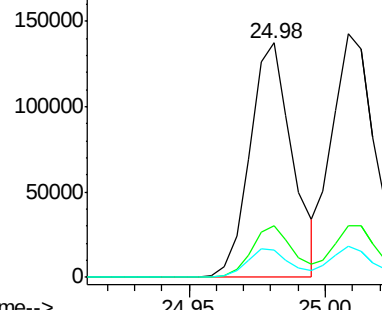
252 100

253 22.1 17.4 26.0

125 11.7 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: 3.99 ng

RT: 25.01 min Scan# 4275

Delta R.T. 0.00 min

Lab File: BE089530.D

Acq: 6 Feb 2015 16:30

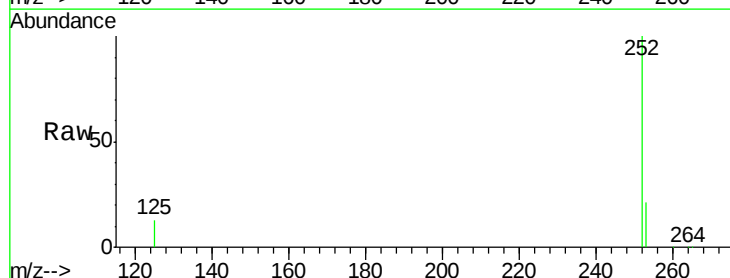
Tgt Ion:252 Resp: 177618

Ion Ratio Lower Upper

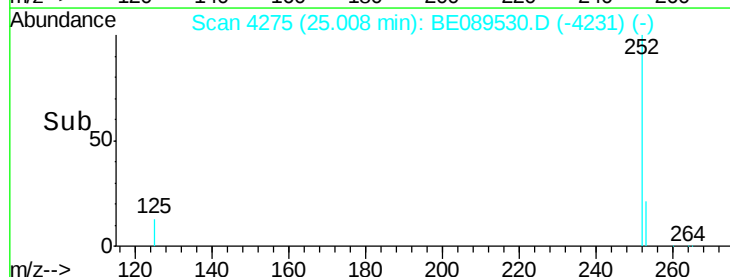
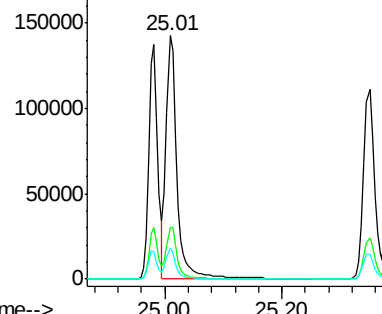
252 100

253 21.0 17.2 25.8

125 12.6 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: 4.51 ng

RT: 25.35 min Scan# 4350

Delta R.T. 0.00 min

Lab File: BE089530.D

Acq: 6 Feb 2015 16:30

Instrument :

BNA_E

LabSampleId :

SSTDIC005

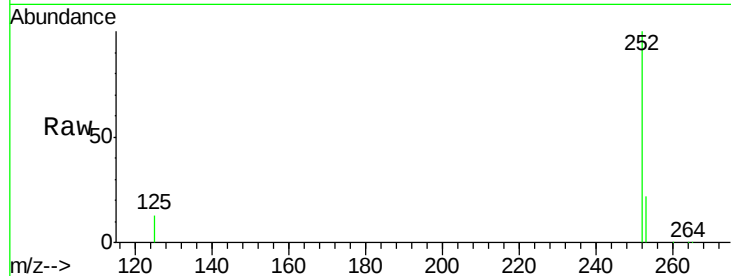
Tgt Ion:252 Resp: 146408

Ion Ratio Lower Upper

252 100

253 21.9 17.8 26.6

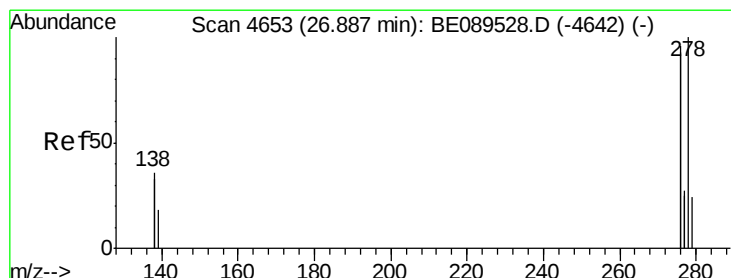
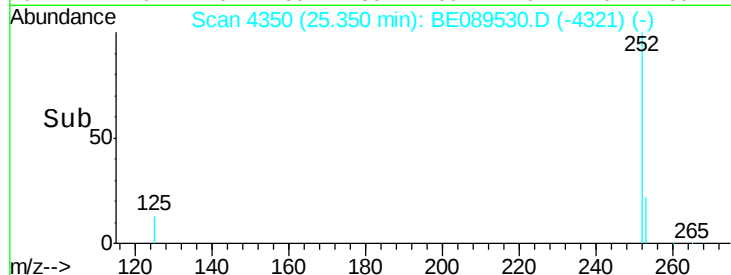
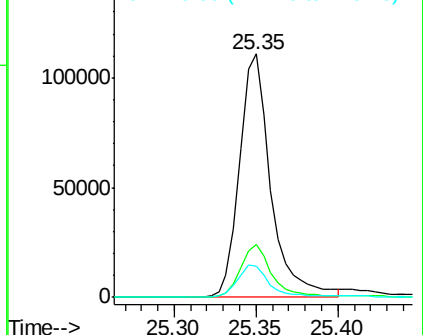
125 13.0 11.4 17.2



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: 4.86 ng

RT: 26.89 min Scan# 4652

Delta R.T. 0.00 min

Lab File: BE089530.D

Acq: 6 Feb 2015 16:30

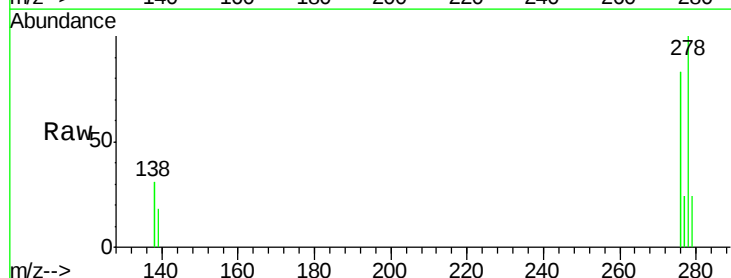
Tgt Ion:278 Resp: 175910

Ion Ratio Lower Upper

278 100

139 17.9 15.7 23.5

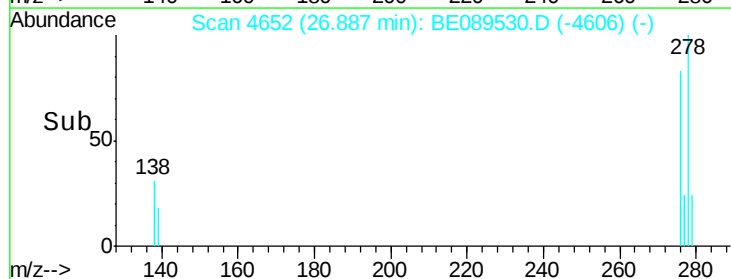
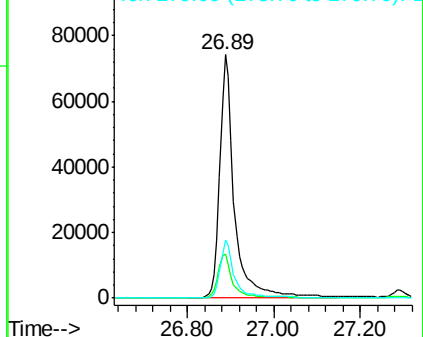
279 23.6 19.5 29.3



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: 4.48 ng

RT: 27.29 min Scan# 4713

Delta R.T. 0.00 min

Lab File: BE089530.D

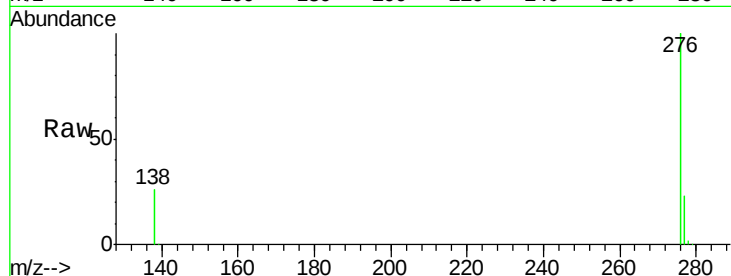
Acq: 6 Feb 2015 16:30

Instrument :

BNA_E

LabSampleId :

SSTDIC005



Tgt Ion: 276 Resp: 677700

Ion Ratio Lower Upper

276 100

277 23.0 18.6 27.8

138 26.0 20.9 31.3

