

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE020615\
 Data File : BE089529.D
 Acq On : 6 Feb 2015 15:48
 Operator : TP/IZ
 Sample : SSTDICC002
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_E
 LabSampleId :
 SSTDICC002

Quant Time: Feb 07 03:35:25 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	9.42	152	36332	5.00	ng	0.00
2) Naphthalene-d8	12.33	136	140451	5.00	ng	0.00
6) Acenaphthene-d10	16.51	164	57845	5.00	ng	0.00
11) Phenanthrene-d10	19.85	188	104885	5.00	ng	0.00
16) Chrysene-d12	23.72	240	119479	5.00	ng	0.00
22) Perylene-d12	25.42	264	128898	5.00	ng	0.00

System Monitoring Compounds						
3) Nitrobenzene-d5	10.69	82	19374	1.95	ng	0.00
7) 2-Fluorobiphenyl	14.97	172	31346	1.73	ng	0.00
18) Terphenyl-d14	22.36	244	32602	1.53	ng	0.00

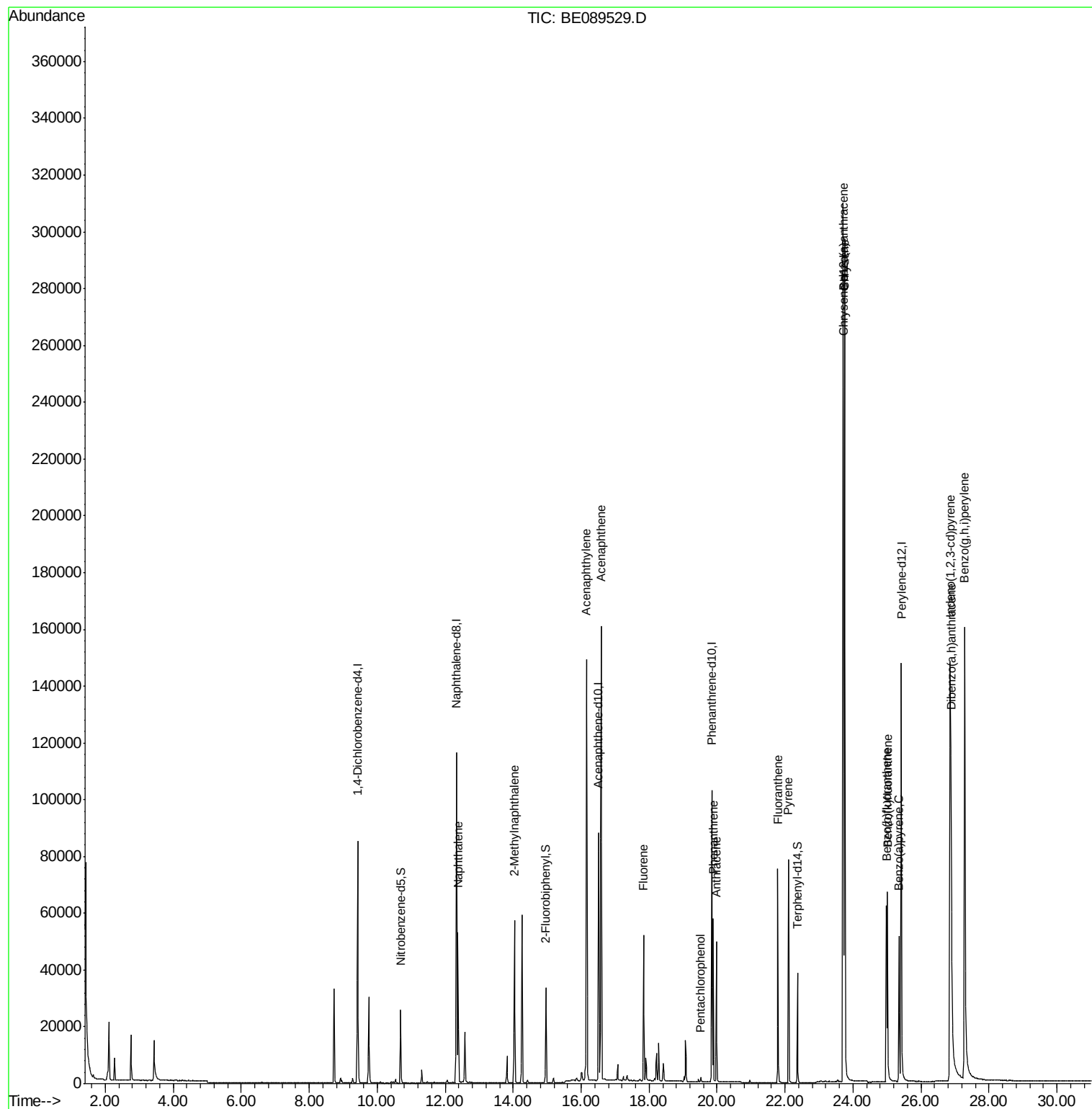
Target Compounds				Qvalue		
4) Naphthalene	12.38	128	64266	1.87	ng	99
5) 2-Methylnaphthalene	14.03	142	37553	1.71	ng	96
8) Acenaphthylene	16.16	152	209151	1.72	ng	99
9) Acenaphthene	16.59	154	31725	1.70	ng	99
10) Fluorene	17.84	166	34386	1.64	ng	99
12) Pentachlorophenol	19.52	266	1039	1.31	ng	89
13) Phenanthrene	19.89	178	53205	1.68	ng	99
14) Anthracene	19.99	178	48372	1.69	ng	100
15) Fluoranthene	21.79	202	51152	1.75	ng	100
17) Pyrene	22.11	202	54652	1.51	ng	99
19) Benzo(a)anthracene	23.71	228	218494	1.69	ng	99
20) Chrysene	23.75	228	223294	1.66	ng	98
21) Indeno(1,2,3-cd)pyrene	26.85	276	297395	1.99	ng	99
23) Benzo(b)fluoranthene	24.98	252	53388	1.87	ng	98
24) Benzo(k)fluoranthene	25.01	252	65645	1.60	ng	99
25) Benzo(a)pyrene	25.35	252	52509	1.76	ng	99
26) Dibenzo(a,h)anthracene	26.89	278	63982	1.92	ng	97
27) Benzo(g,h,i)perylene	27.28	276	251883	1.81	ng	99

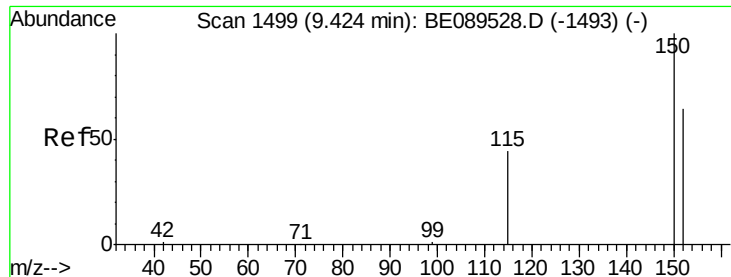
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 9.42 min Scan# 1499

Delta R.T. 0.00 min

Lab File: BE089529.D

Acq: 6 Feb 2015 15:48

Instrument :

BNA_E

LabSampleId :

SSTDICC002

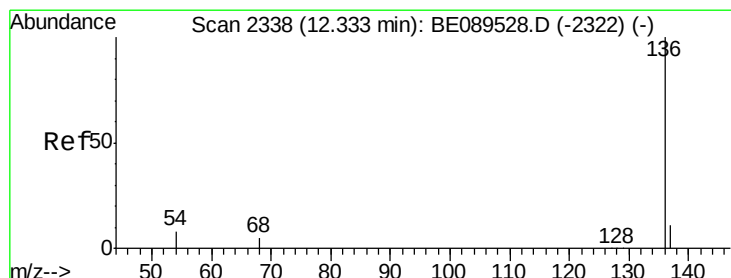
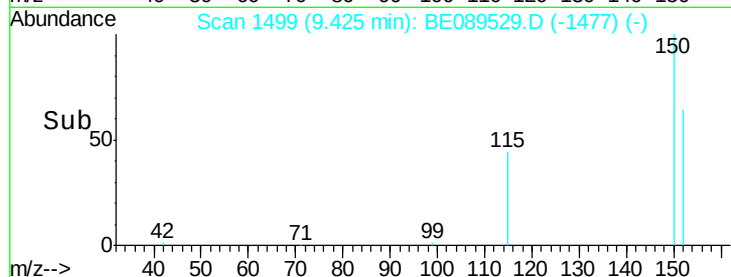
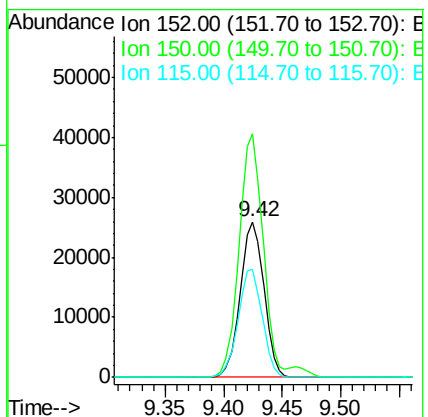
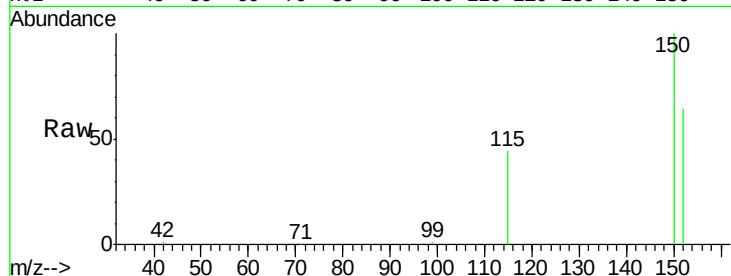
Tgt Ion:152 Resp: 36332

Ion Ratio Lower Upper

152 100

150 156.2 125.7 188.5

115 69.0 55.6 83.4



#2

Naphthalene-d8

Concen: 5.00 ng

RT: 12.33 min Scan# 2339

Delta R.T. 0.00 min

Lab File: BE089529.D

Acq: 6 Feb 2015 15:48

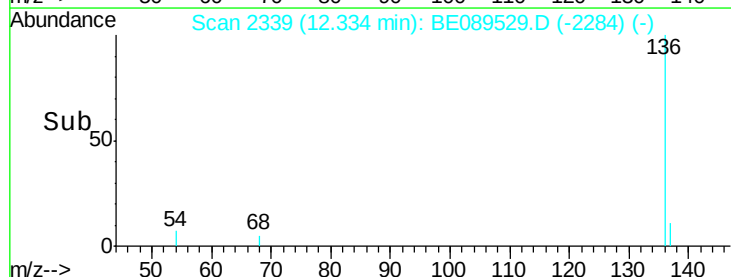
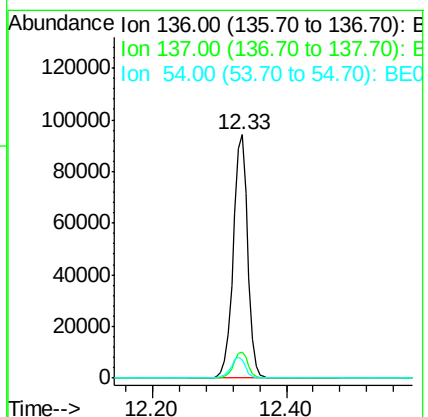
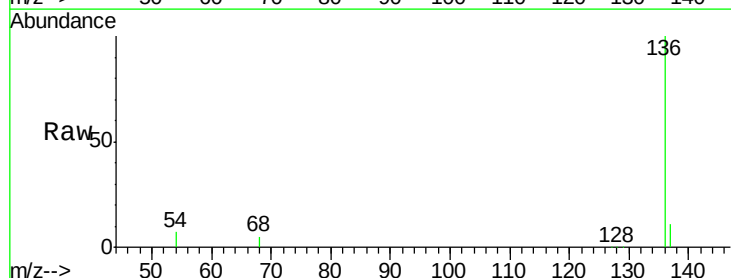
Tgt Ion:136 Resp: 140451

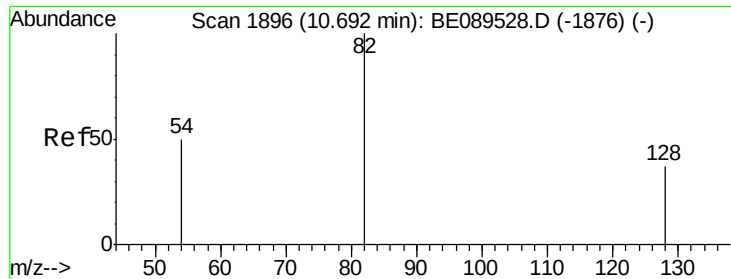
Ion Ratio Lower Upper

136 100

137 10.8 8.7 13.1

54 7.3 6.1 9.1





#3

Nitrobenzene-d5

Concen: 1.95 ng

RT: 10.69 min Scan# 1896

Delta R.T. -0.00 min

Lab File: BE089529.D

Acq: 6 Feb 2015 15:48

Instrument :

BNA_E

LabSampleId :

SSTDICC002

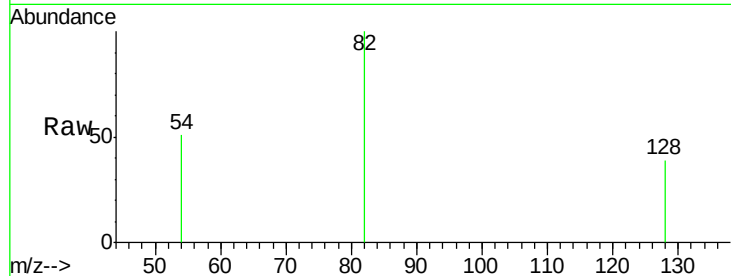
Tgt Ion: 82 Resp: 19374

Ion Ratio Lower Upper

82 100

128 38.6 30.2 45.4

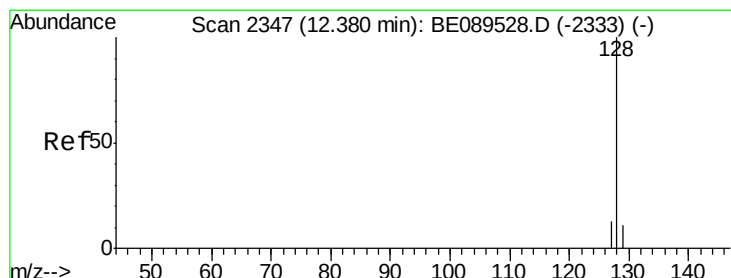
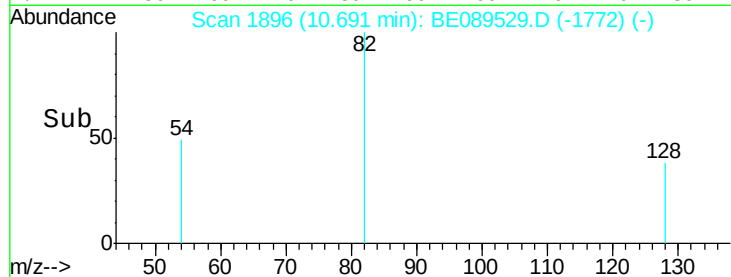
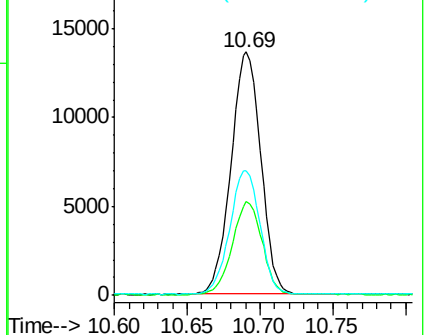
54 51.2 40.6 60.8



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: 1.87 ng

RT: 12.38 min Scan# 2347

Delta R.T. -0.00 min

Lab File: BE089529.D

Acq: 6 Feb 2015 15:48

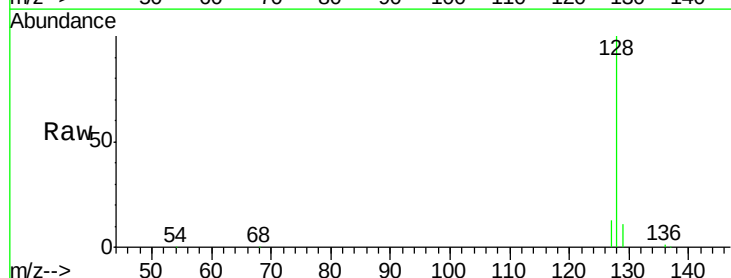
Tgt Ion: 128 Resp: 64266

Ion Ratio Lower Upper

128 100

129 11.0 9.1 13.7

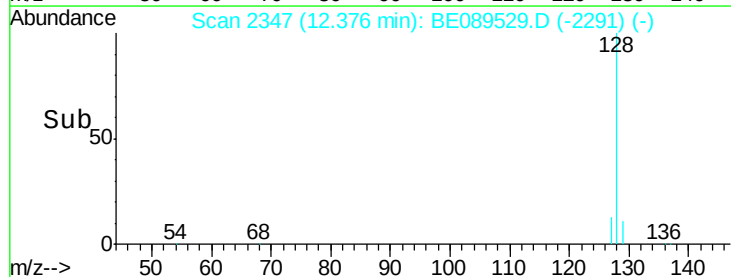
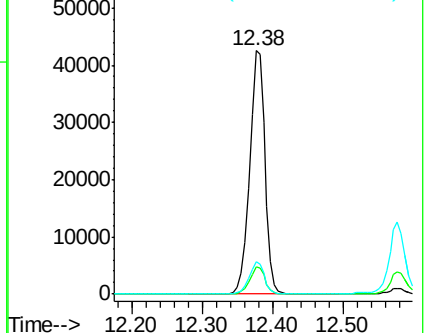
127 13.2 10.5 15.7

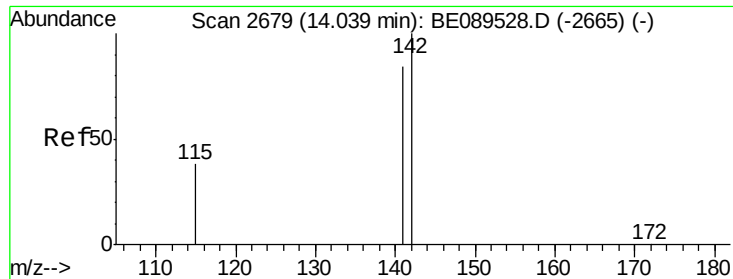


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E





#5

2-Methylnaphthalene

Concen: 1.71 ng

RT: 14.03 min Scan# 2679

Delta R.T. -0.00 min

Lab File: BE089529.D

Acq: 6 Feb 2015 15:48

Instrument :

BNA_E

LabSampleId :

SSTDICC002

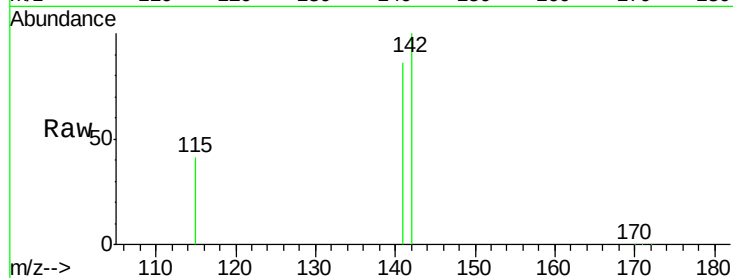
Tgt Ion:142 Resp: 37553

Ion Ratio Lower Upper

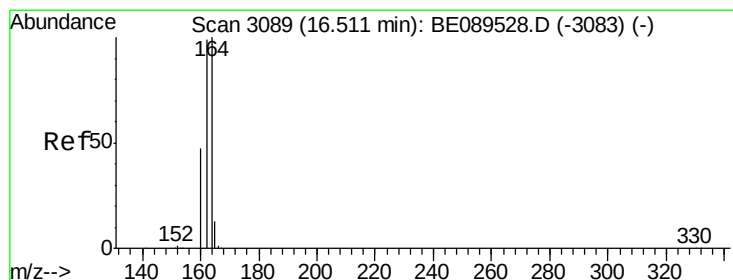
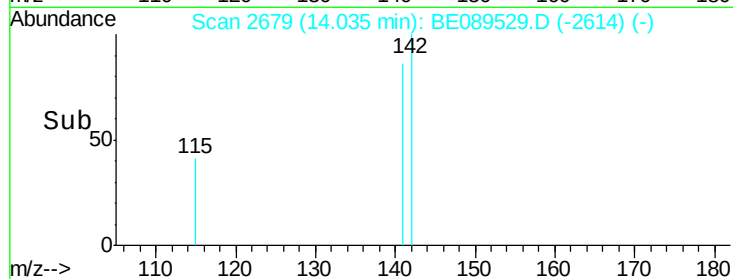
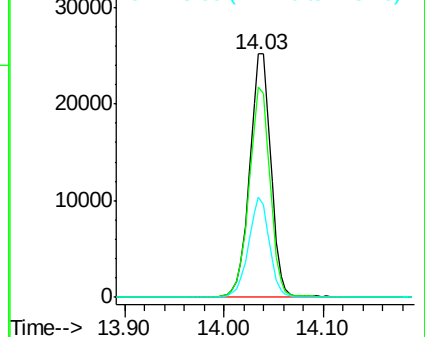
142 100

141 86.5 67.0 100.6

115 41.3 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# 3090

Delta R.T. 0.00 min

Lab File: BE089529.D

Acq: 6 Feb 2015 15:48

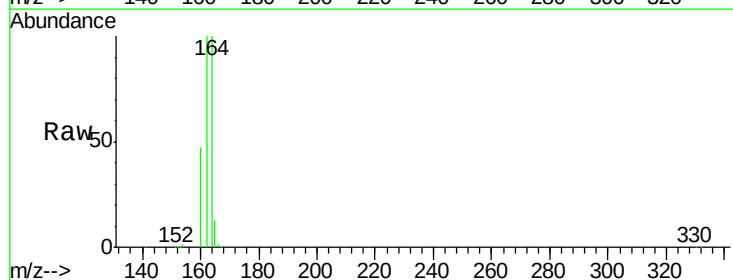
Tgt Ion:164 Resp: 57845

Ion Ratio Lower Upper

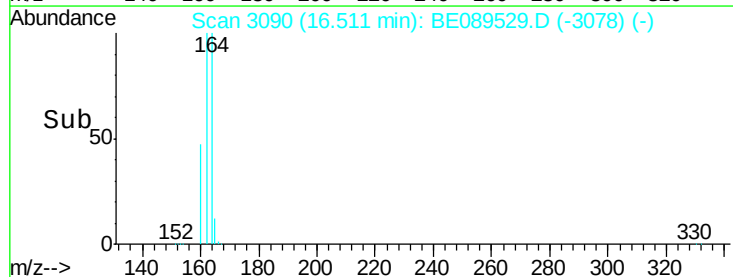
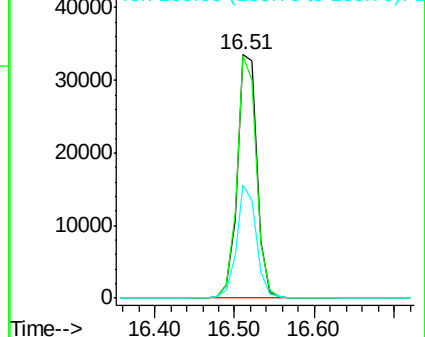
164 100

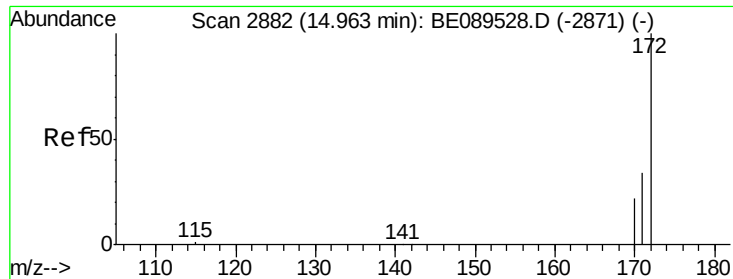
162 99.7 79.5 119.3

160 46.6 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: 1.73 ng

RT: 14.97 min Scan# 2884

Delta R.T. 0.00 min

Lab File: BE089529.D

Acq: 6 Feb 2015 15:48

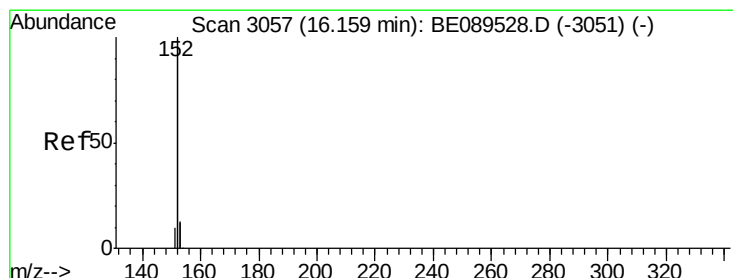
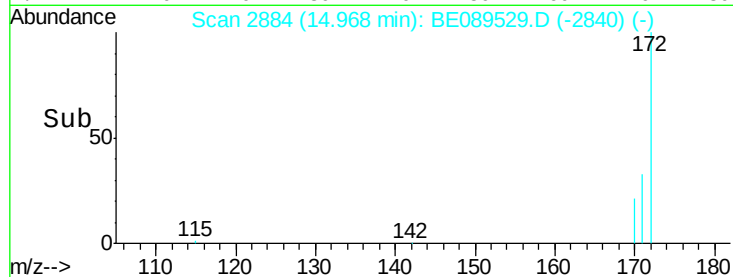
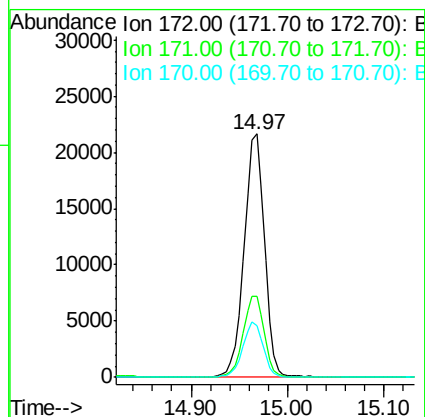
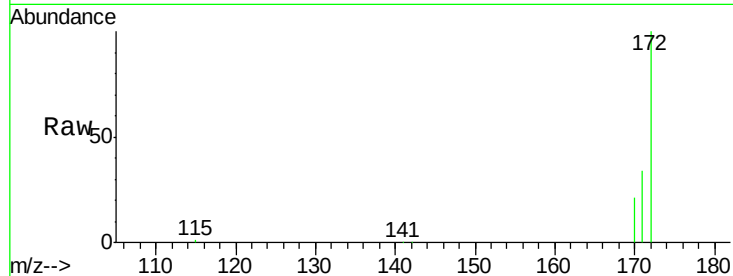
Instrument :

BNA_E

LabSampleId :

SSTDICC002

Tgt Ion:	172	Resp:	31346
Ion	Ratio	Lower	Upper
172	100		
171	33.6	27.7	41.5
170	21.3	18.3	27.5



#8

Acenaphthylene

Concen: 1.72 ng

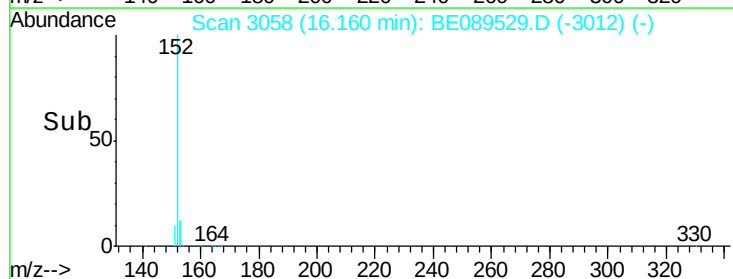
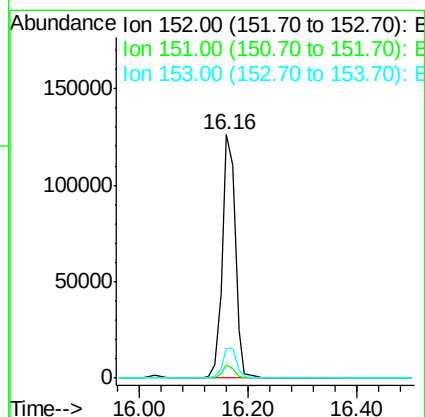
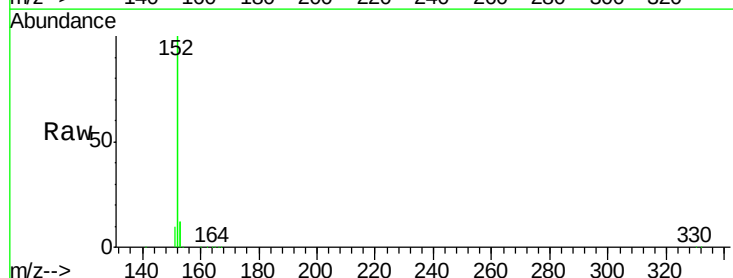
RT: 16.16 min Scan# 3058

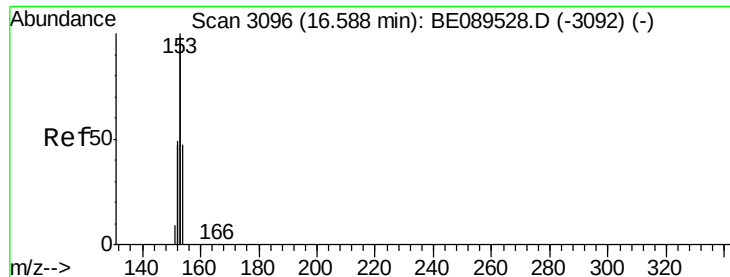
Delta R.T. 0.00 min

Lab File: BE089529.D

Acq: 6 Feb 2015 15:48

Tgt Ion:	152	Resp:	209151
Ion	Ratio	Lower	Upper
152	100		
151	4.9	4.0	6.0
153	12.9	10.6	15.8





#9

Acenaphthene

Concen: 1.70 ng

RT: 16.59 min Scan# 3097

Delta R.T. 0.00 min

Lab File: BE089529.D

Acq: 6 Feb 2015 15:48

Instrument :

BNA_E

LabSampleId :

SSTDICC002

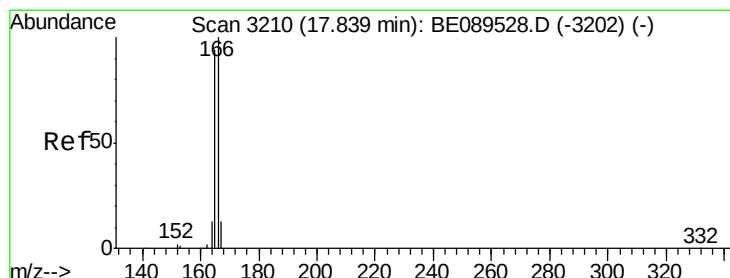
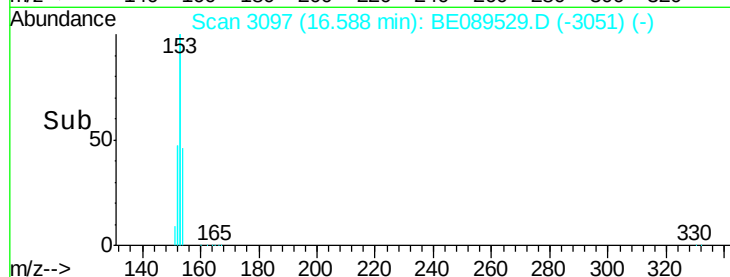
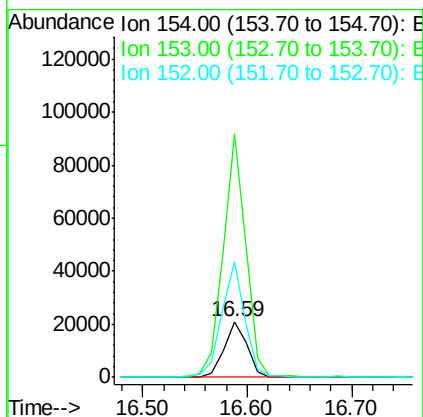
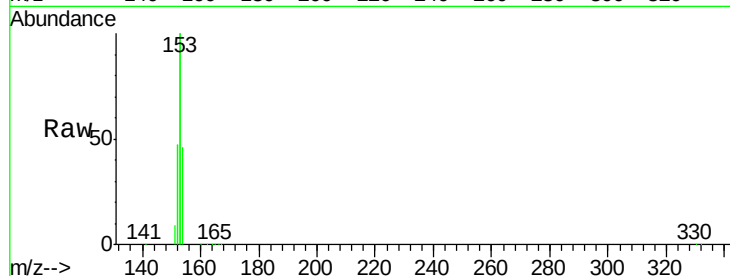
Tgt Ion:154 Resp: 31725

Ion Ratio Lower Upper

154 100

153 429.1 340.8 511.2

152 205.0 165.5 248.3



#10

Fluorene

Concen: 1.64 ng

RT: 17.84 min Scan# 3211

Delta R.T. 0.00 min

Lab File: BE089529.D

Acq: 6 Feb 2015 15:48

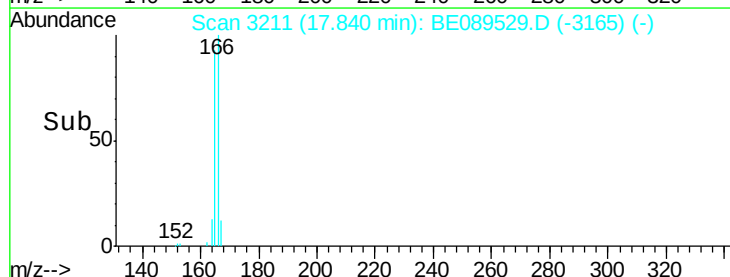
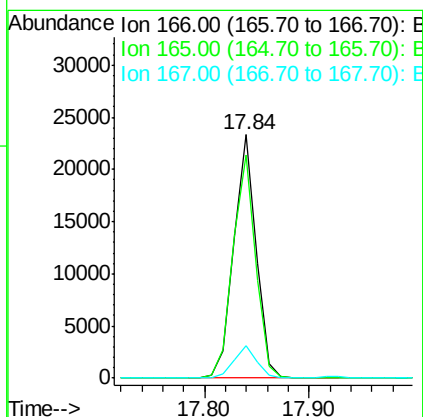
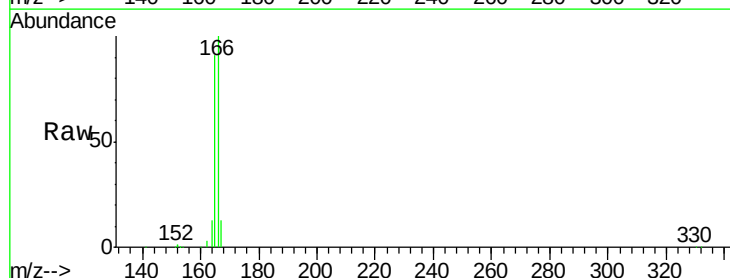
Tgt Ion:166 Resp: 34386

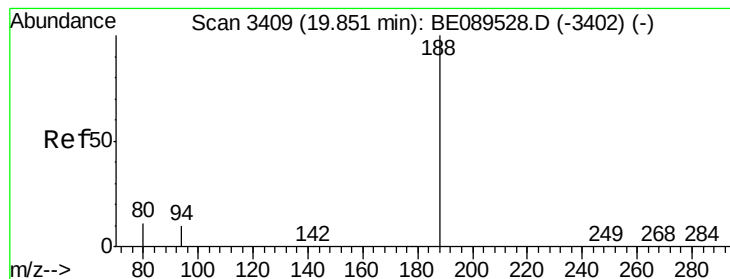
Ion Ratio Lower Upper

166 100

165 93.0 75.5 113.3

167 12.9 10.9 16.3





#11

Phenanthrene-d10

Concen: 5.00 ng

RT: 19.85 min Scan# 3410

Delta R.T. 0.00 min

Lab File: BE089529.D

Acq: 6 Feb 2015 15:48

Instrument :

BNA_E

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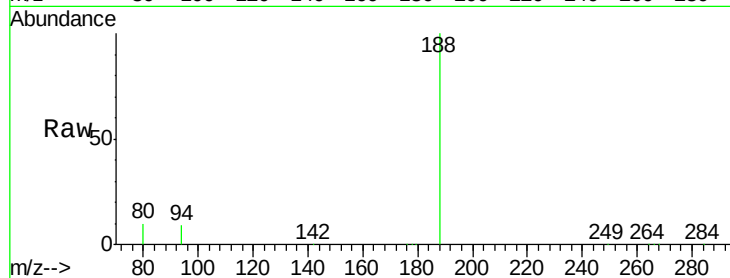
Tgt Ion:188 Resp: 104885

Ion Ratio Lower Upper

188 100

94 9.5 8.4 12.6

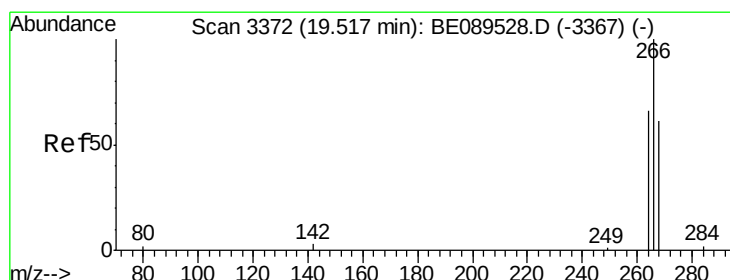
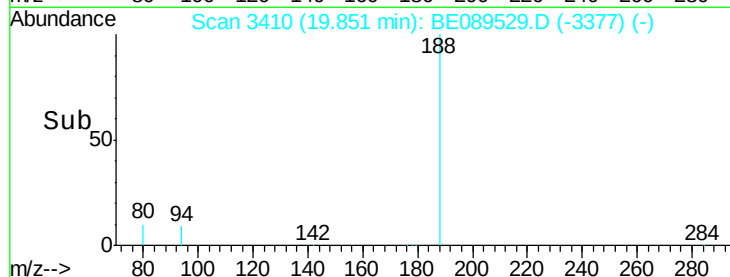
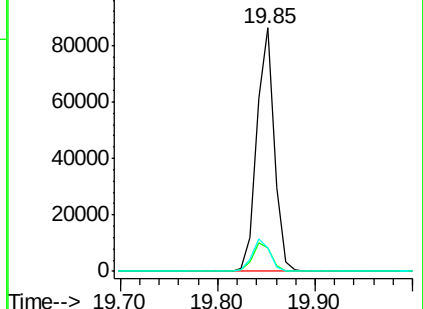
80 9.6 8.6 12.8



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: 1.31 ng

RT: 19.52 min Scan# 3373

Delta R.T. 0.00 min

Lab File: BE089529.D

Acq: 6 Feb 2015 15:48

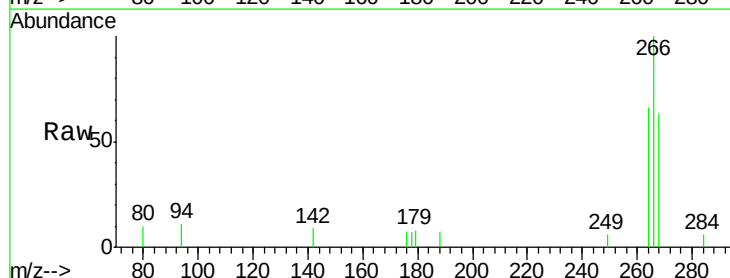
Tgt Ion:266 Resp: 1039

Ion Ratio Lower Upper

266 100

268 63.1 57.9 86.9

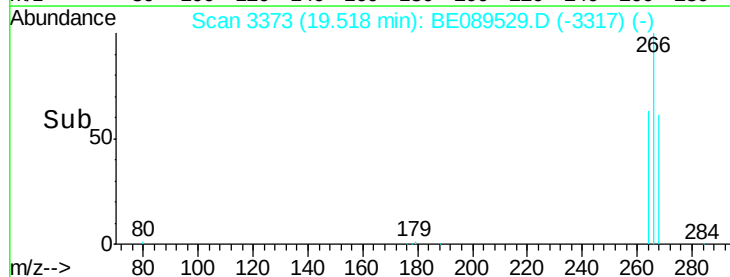
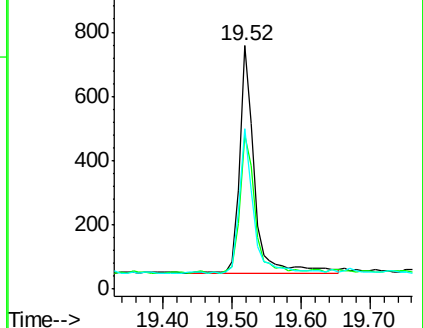
264 65.7 60.2 90.4

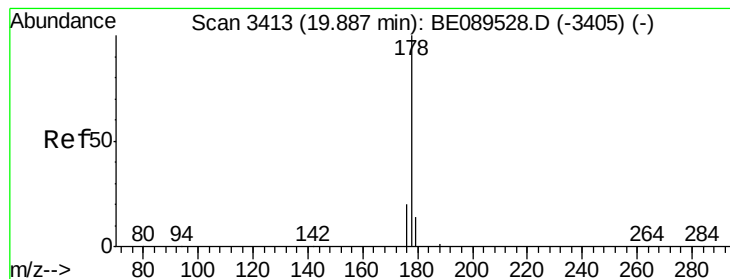


Abundance Ion 265.70 (265.40 to 266.40): E

Ion 268.00 (267.70 to 268.70): E

Ion 264.00 (263.70 to 264.70): E





#13

Phenanthrene

Concen: 1.68 ng

RT: 19.89 min Scan# 3414

Delta R.T. 0.00 min

Lab File: BE089529.D

Acq: 6 Feb 2015 15:48

Instrument :

BNA_E

LabSampleId :

SSTDICC002

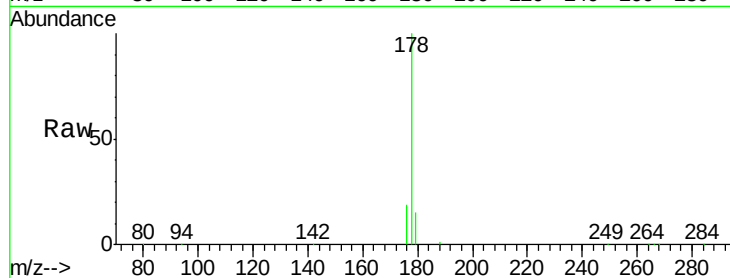
Tgt Ion:178 Resp: 53205

Ion Ratio Lower Upper

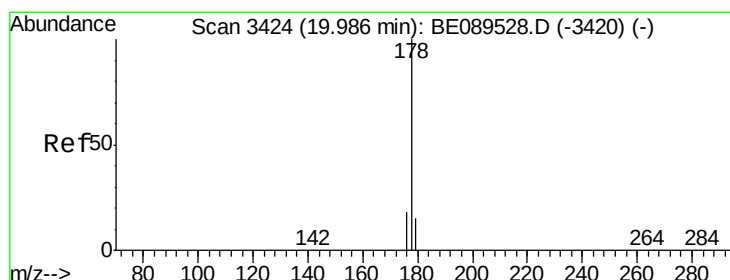
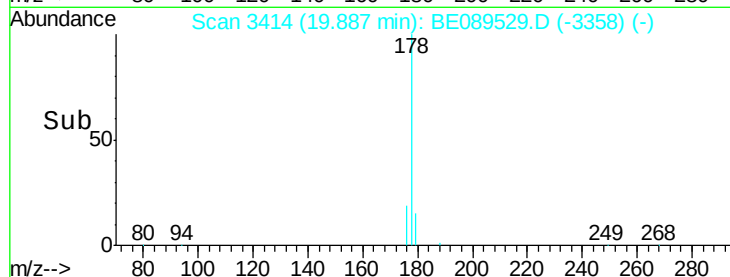
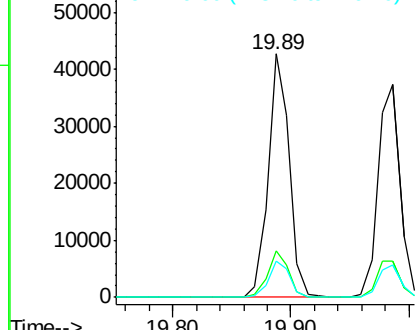
178 100

176 18.7 15.4 23.0

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



#14

Anthracene

Concen: 1.69 ng

RT: 19.99 min Scan# 3425

Delta R.T. 0.00 min

Lab File: BE089529.D

Acq: 6 Feb 2015 15:48

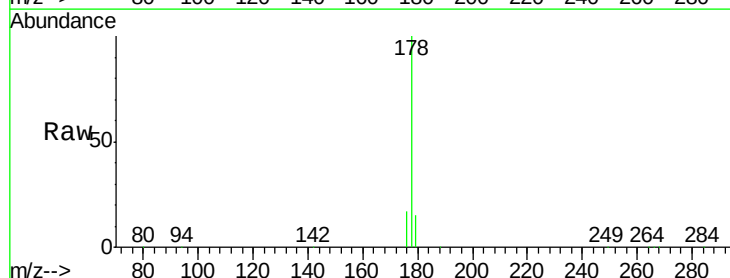
Tgt Ion:178 Resp: 48372

Ion Ratio Lower Upper

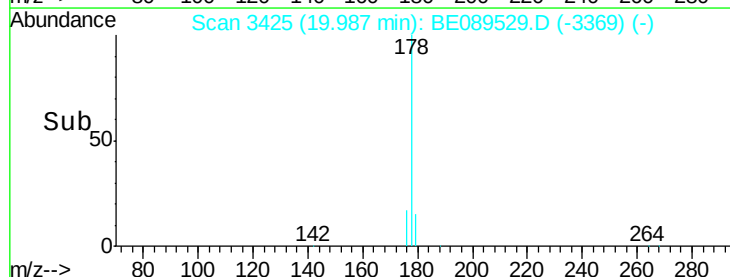
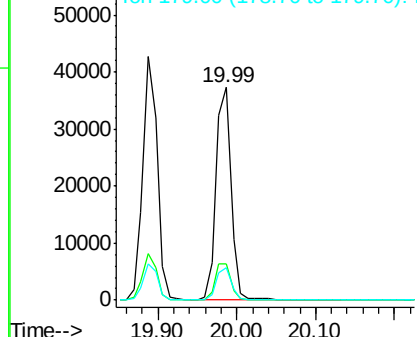
178 100

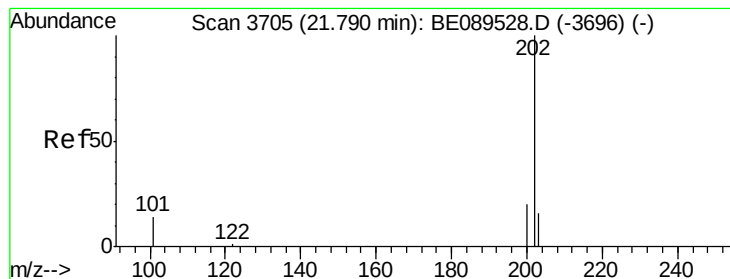
176 18.1 14.5 21.7

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: 1.75 ng

RT: 21.79 min Scan# 3706

Delta R.T. 0.00 min

Lab File: BE089529.D

Acq: 6 Feb 2015 15:48

Instrument :

BNA_E

LabSampleId :

SSTDICC002

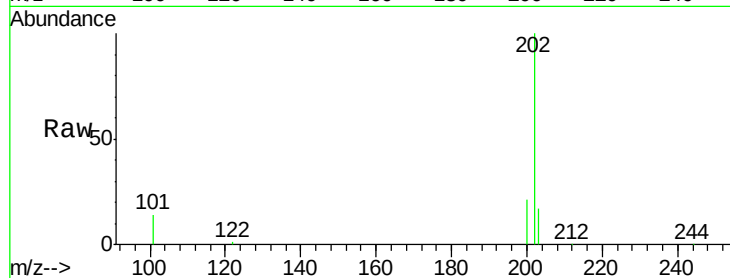
Tgt Ion:202 Resp: 51152

Ion Ratio Lower Upper

202 100

101 14.5 11.6 17.4

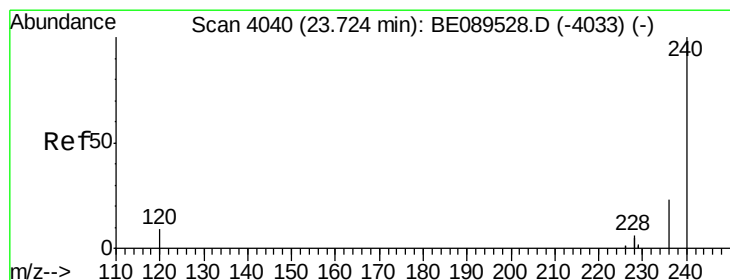
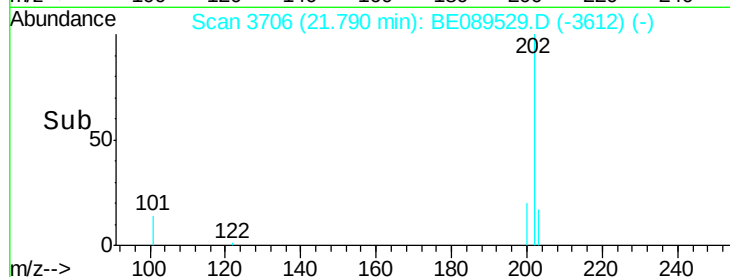
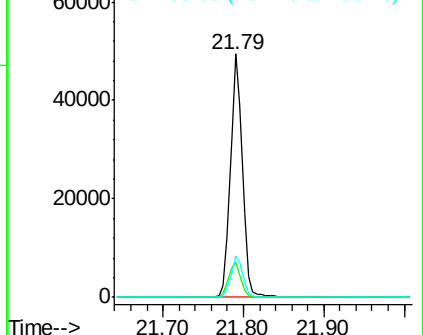
203 17.1 13.6 20.4



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# 4041

Delta R.T. -0.00 min

Lab File: BE089529.D

Acq: 6 Feb 2015 15:48

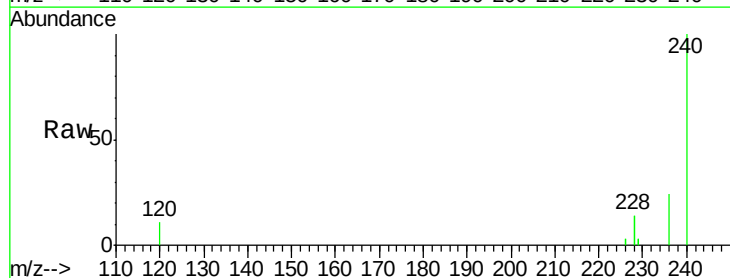
Tgt Ion:240 Resp: 119479

Ion Ratio Lower Upper

240 100

120 10.6 7.2 10.8

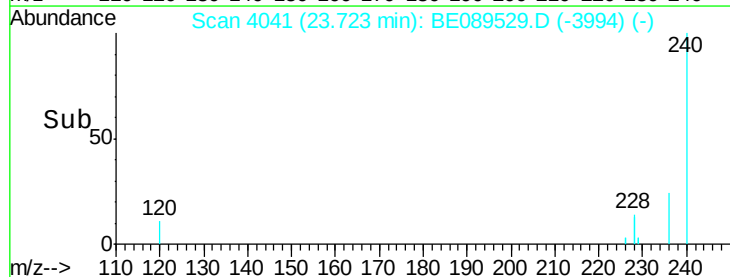
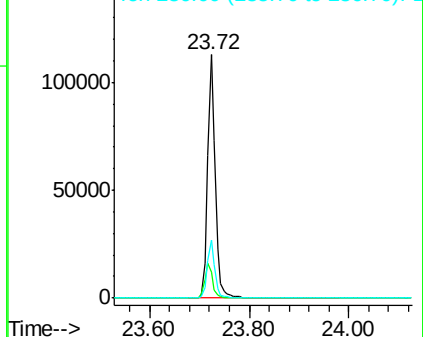
236 23.8 18.5 27.7

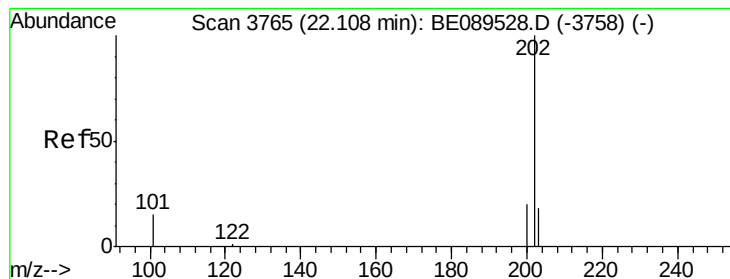


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#17

Pyrene

Concen: 1.51 ng

RT: 22.11 min Scan# 3766

Delta R.T. 0.00 min

Lab File: BE089529.D

Acq: 6 Feb 2015 15:48

Instrument :

BNA_E

LabSampleId :

SSTDICC002

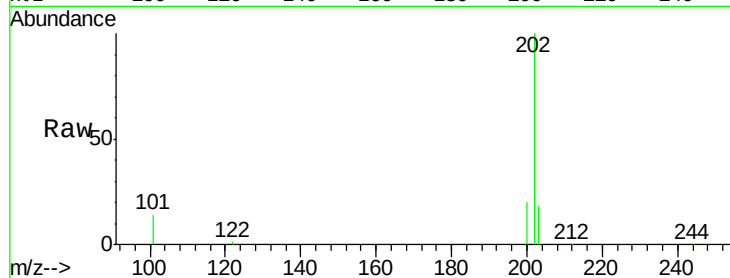
Tgt Ion:202 Resp: 54652

Ion Ratio Lower Upper

202 100

200 20.6 16.3 24.5

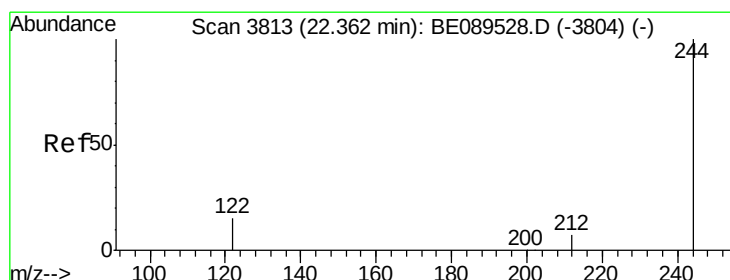
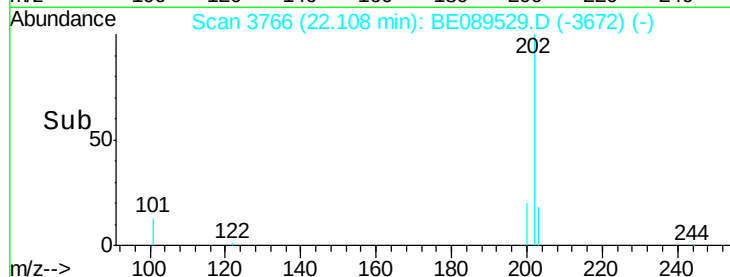
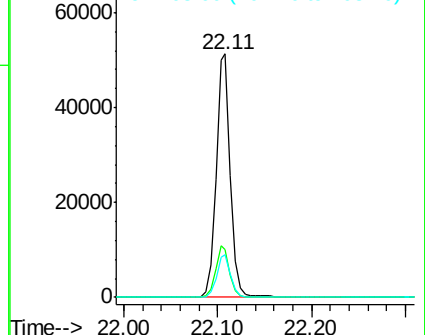
203 17.2 13.5 20.3



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: 1.53 ng

RT: 22.36 min Scan# 3814

Delta R.T. 0.00 min

Lab File: BE089529.D

Acq: 6 Feb 2015 15:48

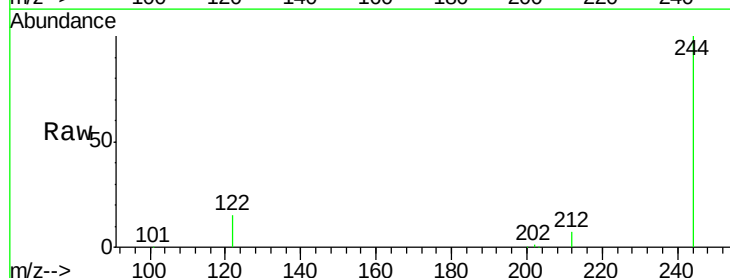
Tgt Ion:244 Resp: 32602

Ion Ratio Lower Upper

244 100

212 7.0 5.8 8.8

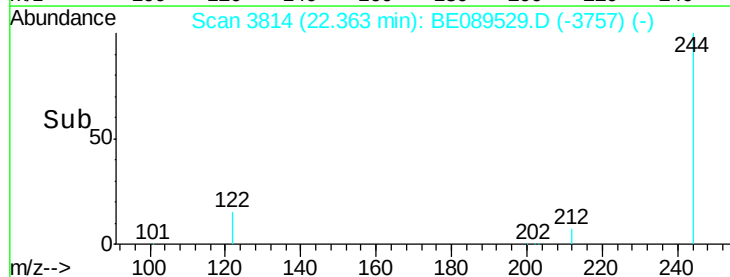
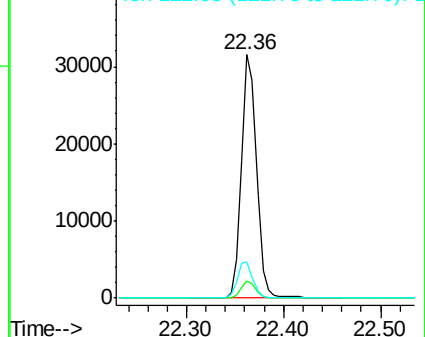
122 14.8 12.6 19.0

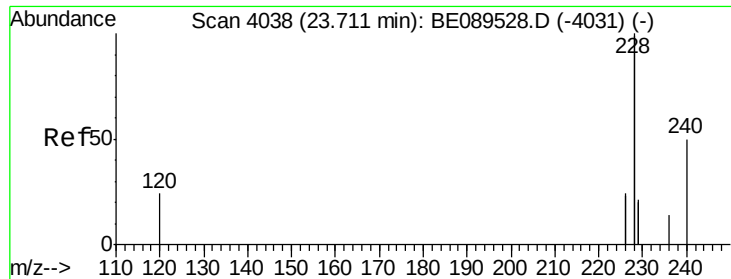


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#19

Benzo(a)anthracene

Concen: 1.69 ng

RT: 23.71 min Scan# 4039

Delta R.T. -0.00 min

Lab File: BE089529.D

Acq: 6 Feb 2015 15:48

Instrument :

BNA_E

LabSampleId :

SSTDICC002

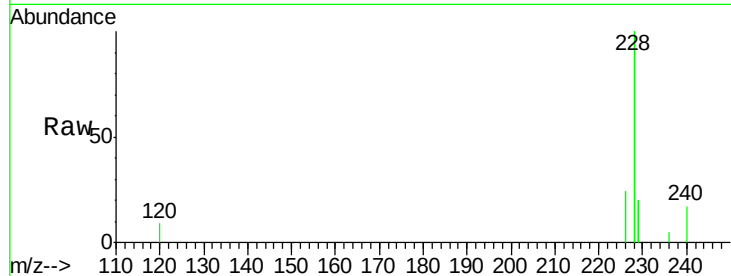
Tgt Ion:228 Resp: 218494

Ion Ratio Lower Upper

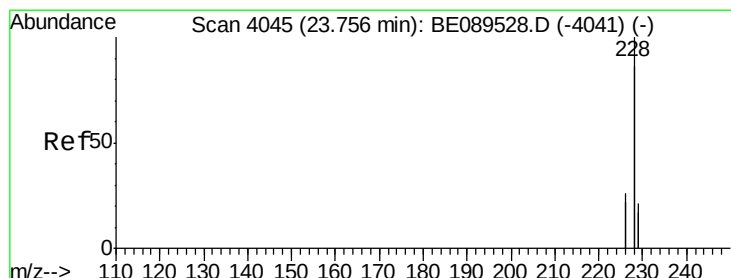
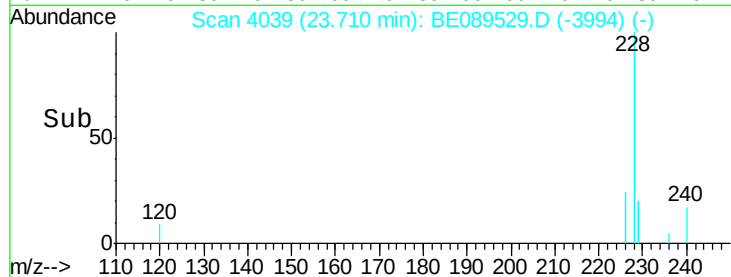
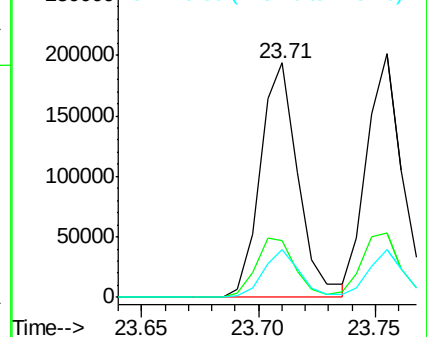
228 100

226 24.3 19.0 28.4

229 20.5 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: 1.66 ng

RT: 23.75 min Scan# 4046

Delta R.T. -0.00 min

Lab File: BE089529.D

Acq: 6 Feb 2015 15:48

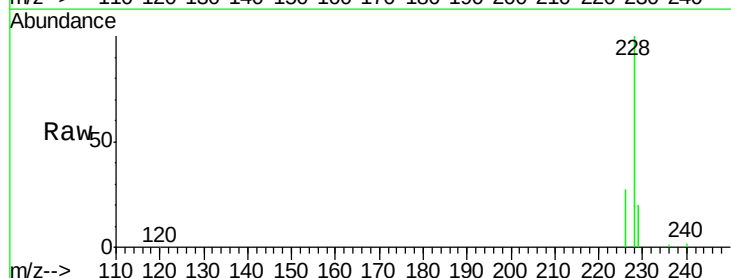
Tgt Ion:228 Resp: 223294

Ion Ratio Lower Upper

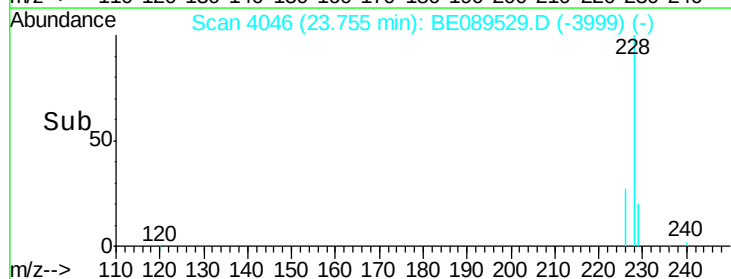
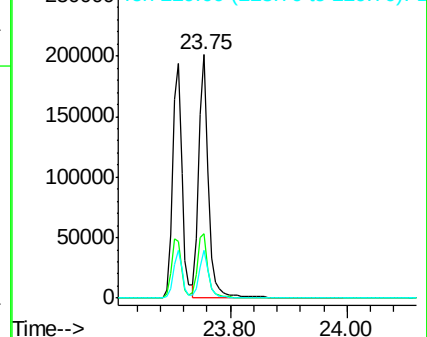
228 100

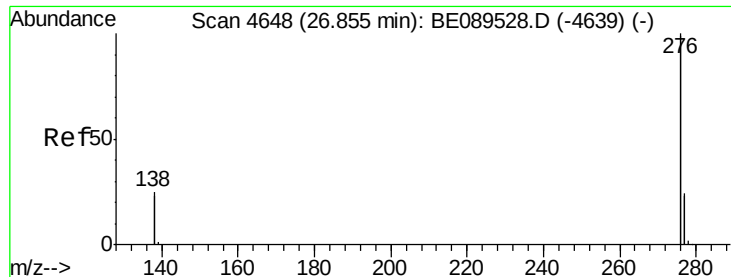
226 26.7 21.0 31.4

229 19.8 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: 1.99 ng

RT: 26.85 min Scan# 4649

Delta R.T. -0.00 min

Lab File: BE089529.D

Acq: 6 Feb 2015 15:48

Instrument :

BNA_E

LabSampleId :

SSTDICC002

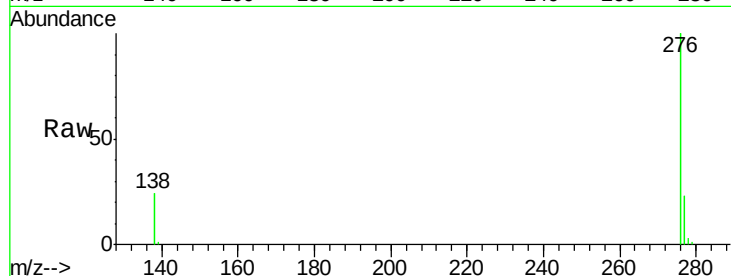
Tgt Ion:276 Resp: 297395

Ion Ratio Lower Upper

276 100

138 29.3 23.0 34.4

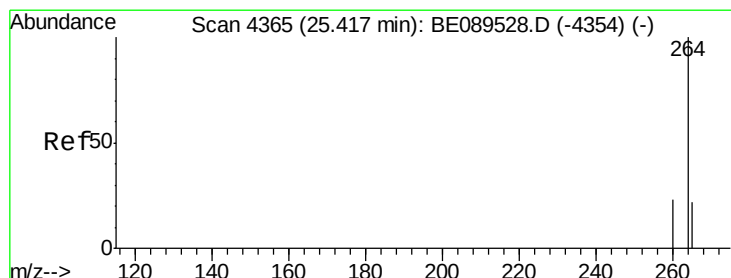
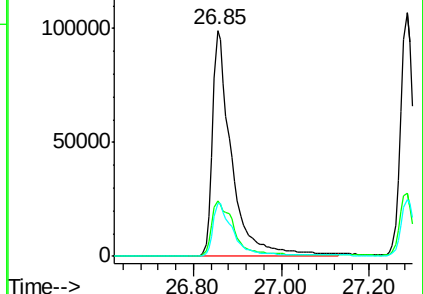
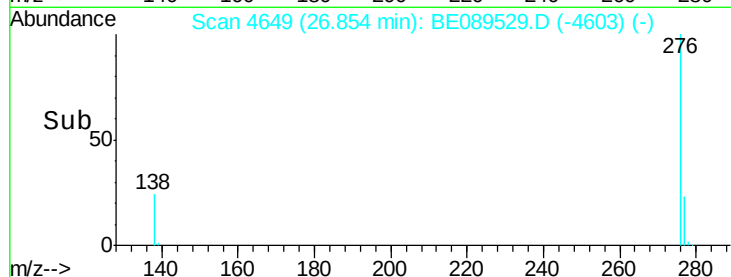
277 24.9 19.9 29.9



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: 25.42 min Scan# 4367

Delta R.T. 0.00 min

Lab File: BE089529.D

Acq: 6 Feb 2015 15:48

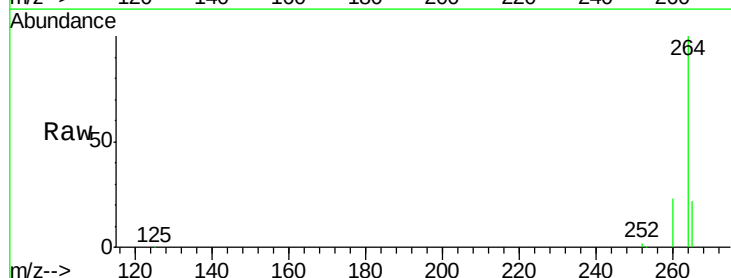
Tgt Ion:264 Resp: 128898

Ion Ratio Lower Upper

264 100

260 23.3 18.7 28.1

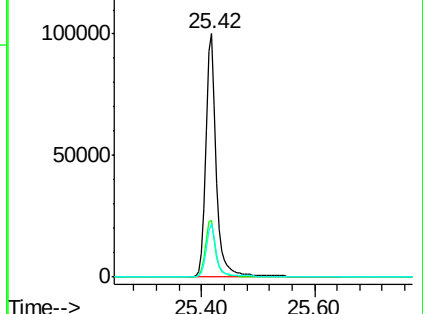
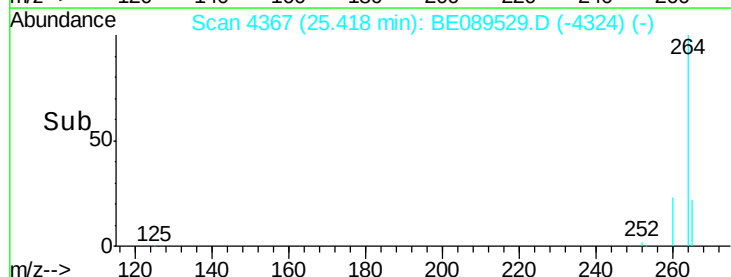
265 21.9 17.5 26.3

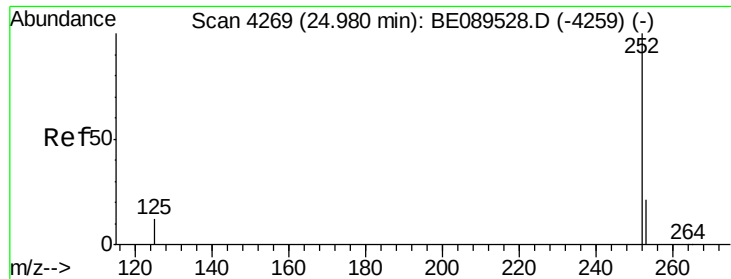


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

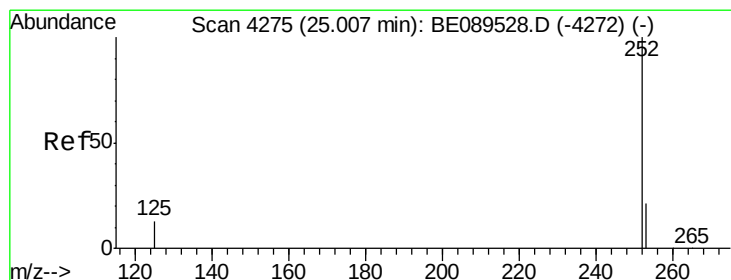
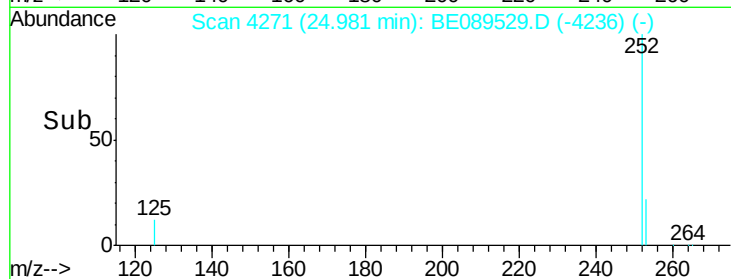
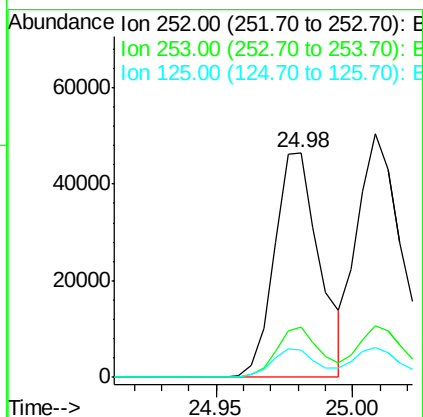
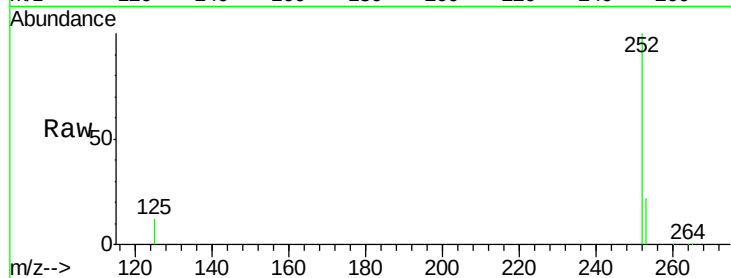




#23
Benzo(b)fluoranthene
Concen: 1.87 ng
RT: 24.98 min Scan# 4271
Delta R.T. 0.00 min
Lab File: BE089529.D
Acq: 6 Feb 2015 15:48

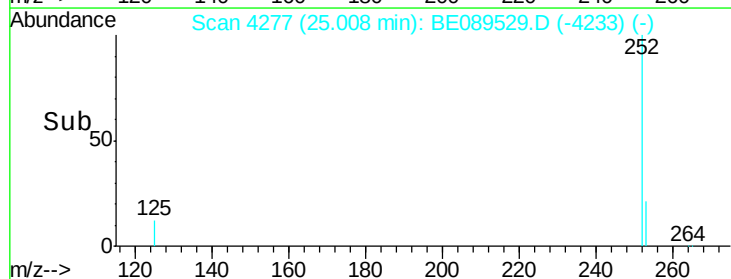
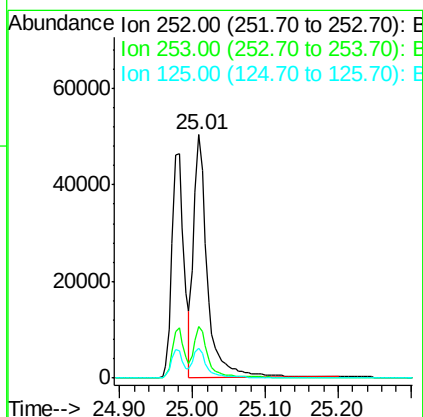
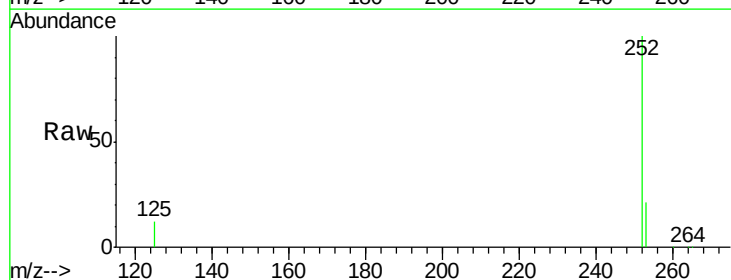
Instrument :
BNA_E
LabSampleId :
SSTDIC002

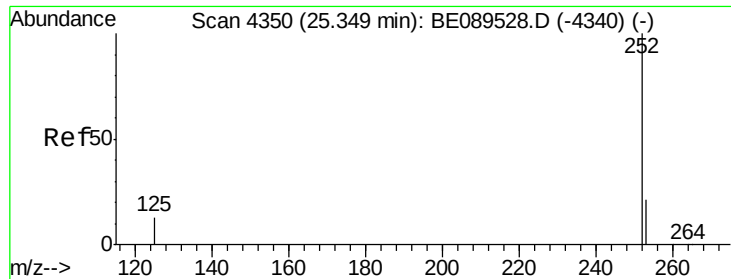
Tgt Ion:252 Resp: 53388
Ion Ratio Lower Upper
252 100
253 22.4 17.4 26.0
125 11.9 10.4 15.6



#24
Benzo(k)fluoranthene
Concen: 1.60 ng
RT: 25.01 min Scan# 4277
Delta R.T. 0.00 min
Lab File: BE089529.D
Acq: 6 Feb 2015 15:48

Tgt Ion:252 Resp: 65645
Ion Ratio Lower Upper
252 100
253 21.3 17.2 25.8
125 12.2 10.6 15.8





#25

Benzo(a)pyrene

Concen: 1.76 ng

RT: 25.35 min Scan# 4352

Delta R.T. 0.00 min

Lab File: BE089529.D

Acq: 6 Feb 2015 15:48

Instrument :

BNA_E

LabSampleId :

SSTDICC002

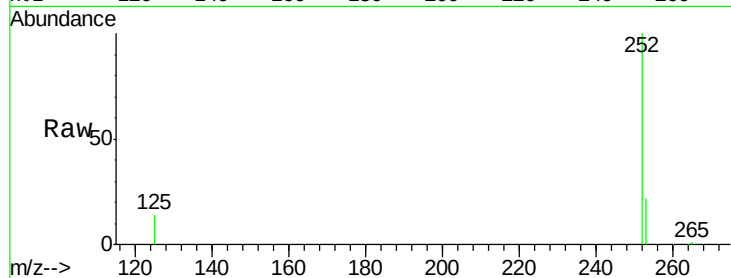
Tgt Ion:252 Resp: 52509

Ion Ratio Lower Upper

252 100

253 22.0 17.8 26.6

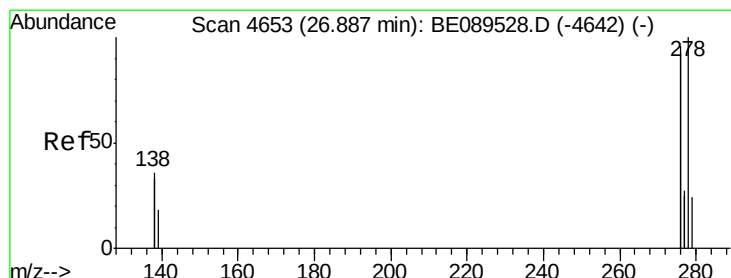
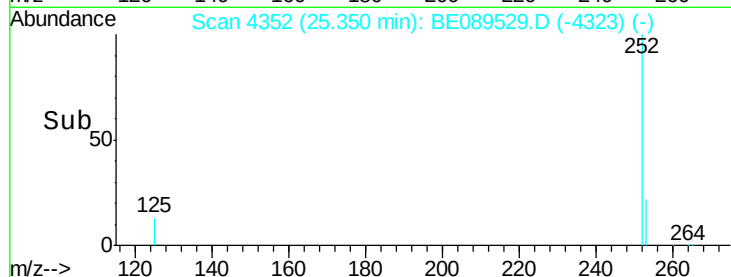
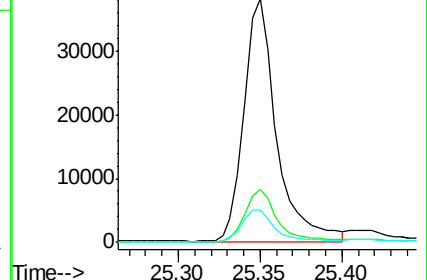
125 13.5 11.4 17.2



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: 1.92 ng

RT: 26.89 min Scan# 4654

Delta R.T. -0.00 min

Lab File: BE089529.D

Acq: 6 Feb 2015 15:48

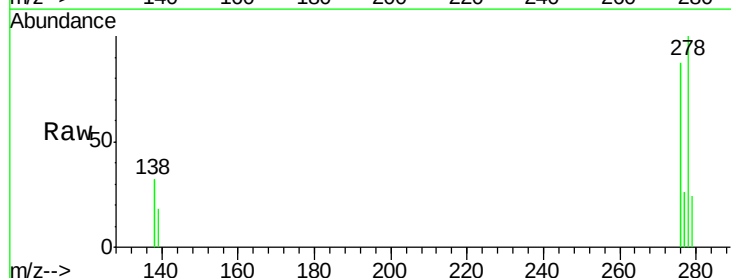
Tgt Ion:278 Resp: 63982

Ion Ratio Lower Upper

278 100

139 17.6 15.7 23.5

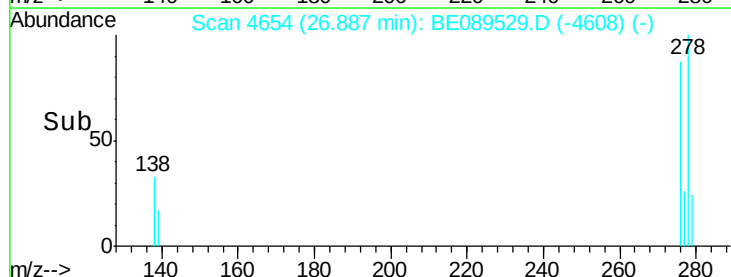
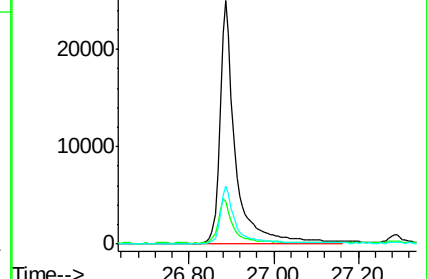
279 23.8 19.5 29.3

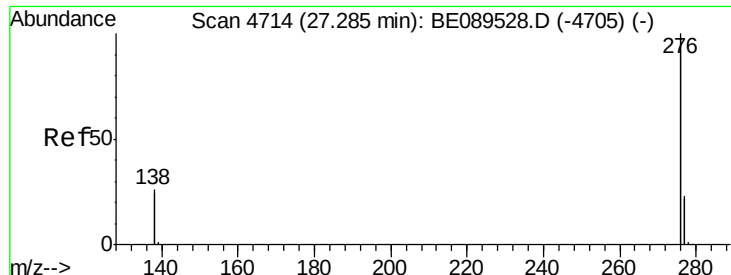


Abundance Ion 278.00 (277.70 to 278.70): E

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: 1.81 ng

RT: 27.28 min Scan# 4715

Delta R.T. -0.00 min

Lab File: BE089529.D

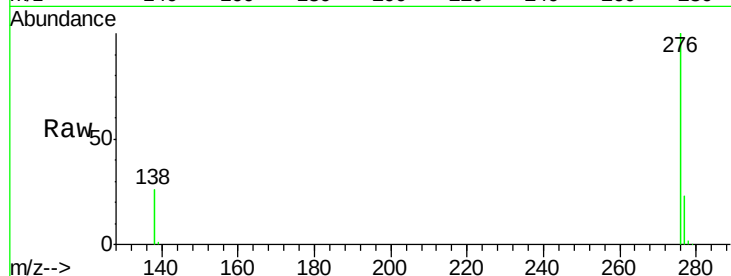
Acq: 6 Feb 2015 15:48

Instrument :

BNA_E

LabSampleId :

SSTDIC002



Tgt Ion: 276 Resp: 251883

Ion Ratio Lower Upper

276 100

277 23.4 18.6 27.8

138 25.7 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

