

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE013015\
 Data File : BE089446.D
 Acq On : 30 Jan 2015 20:01
 Operator : TP/IZ
 Sample : PB81495BSD
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 PB81495BSD

Quant Time: Feb 02 00:10:49 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 05:05:18 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.59	152	66092	5.00	ng	0.00
2) Naphthalene-d8	12.50	136	277368	5.00	ng	0.00
6) Acenaphthene-d10	16.69	164	136136	5.00	ng	-0.01
11) Phenanthrene-d10	19.99	188	209991	5.00	ng	0.00
16) Chrysene-d12	23.85	240	168647	5.00	ng	0.00
22) Perylene-d12	25.56	264	144970	5.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
3) Nitrobenzene-d5	10.85	82	111533	6.07	ng	0.00
7) 2-Fluorobiphenyl	15.13	172	201208	5.61	ng	0.00
18) Terphenyl-d14	22.48	244	158273	6.27	ng	0.00

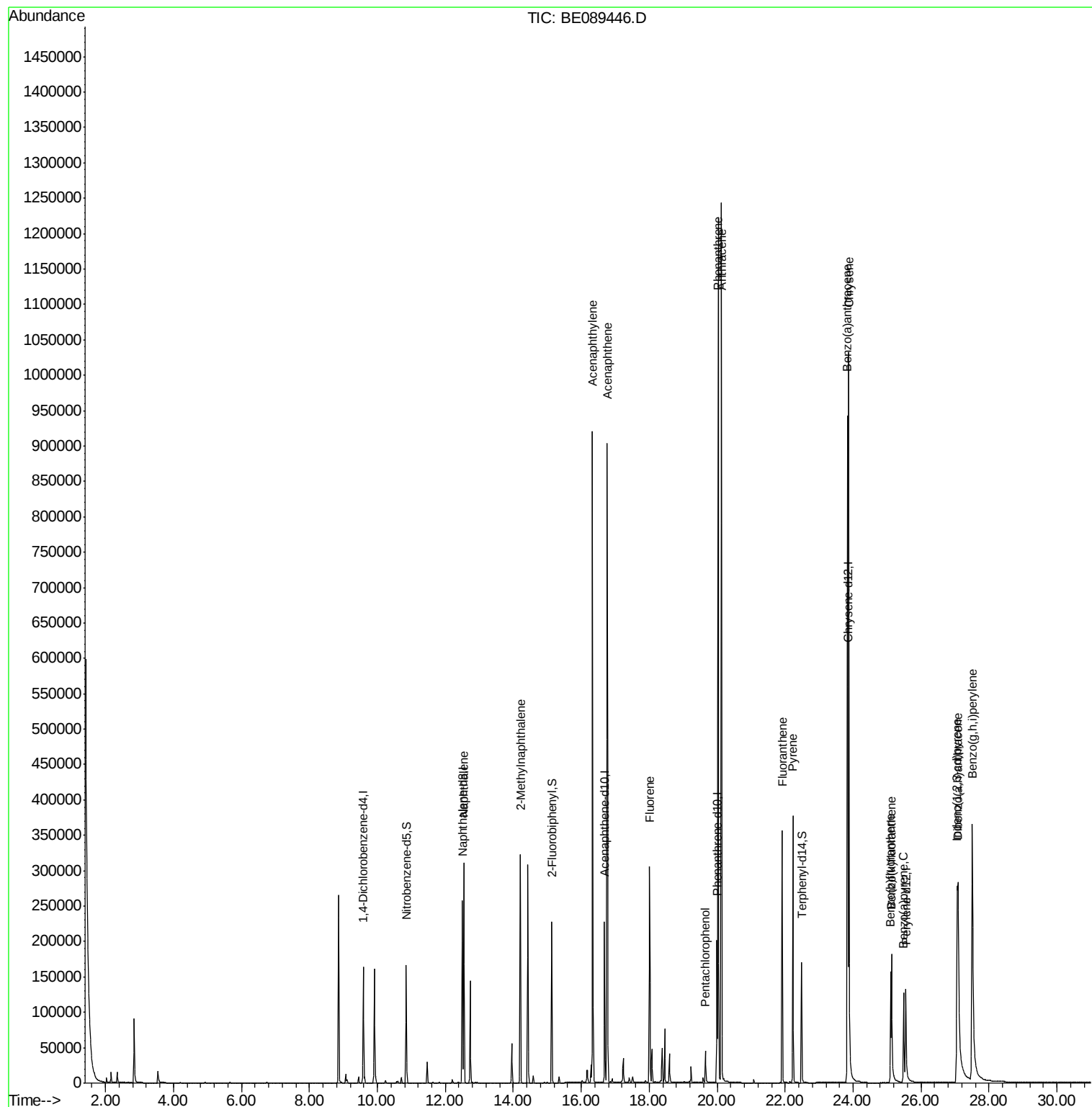
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Naphthalene	12.54	128	334462	5.14	ng	99
5) 2-Methylnaphthalene	14.21	142	203375	5.17	ng	99
8) Acenaphthylene	16.33	152	1154979	4.72	ng	100
9) Acenaphthene	16.76	154	169943	4.62	ng	99
10) Fluorene	18.01	166	192664	4.71	ng	100
12) Pentachlorophenol	19.66	266	25616	10.52	ng	95
13) Phenanthrene	20.03	178	1092425	5.29	ng	100
14) Anthracene	20.12	178	1073933	5.70	ng	100
15) Fluoranthene	21.91	202	241176	5.35	ng	99
17) Pyrene	22.23	202	258870	5.79	ng	99
19) Benzo(a)anthracene	23.83	228	763571	5.38	ng	95
20) Chrysene	23.87	228	883641	5.52	ng	98
21) Indeno(1,2,3-cd)pyrene	27.06	276	756065	5.41	ng	100
23) Benzo(b)fluoranthene	25.10	252	134657	5.21	ng	98
24) Benzo(k)fluoranthene	25.13	252	235828	6.39	ng	99
25) Benzo(a)pyrene	25.48	252	148272	5.65	ng	99
26) Dibenzo(a,h)anthracene	27.10	278	162079	5.44	ng	97
27) Benzo(g,h,i)perylene	27.51	276	700122	6.04	ng	96

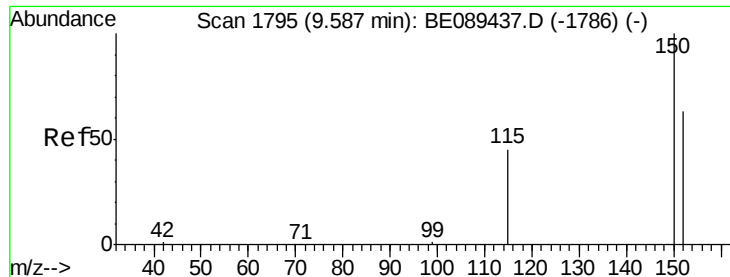
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 9.59 min Scan# 1795

Delta R.T. -0.00 min

Lab File: BE089446.D

Acq: 30 Jan 2015 20:01

Instrument :

BNA_E

ClientSampleId :

PB81495BSD

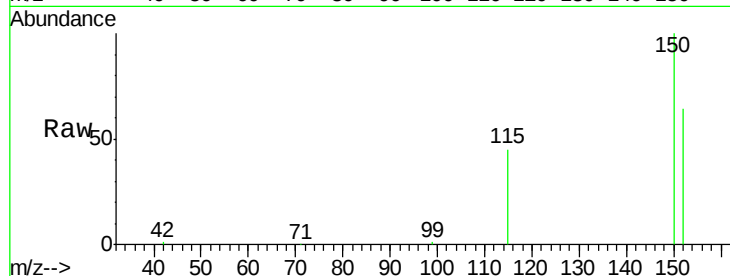
Tgt Ion:152 Resp: 66092

Ion Ratio Lower Upper

152 100

150 156.7 127.2 190.8

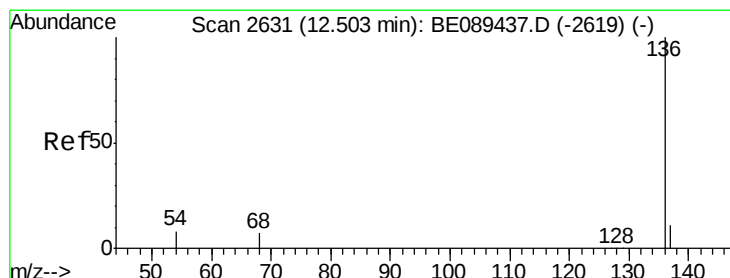
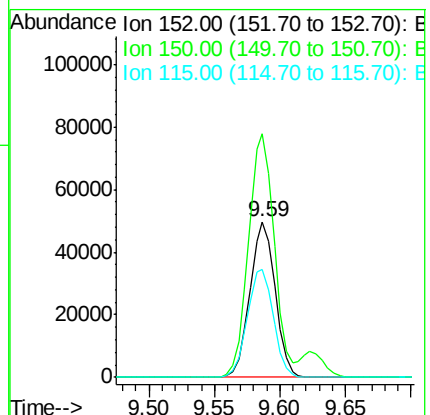
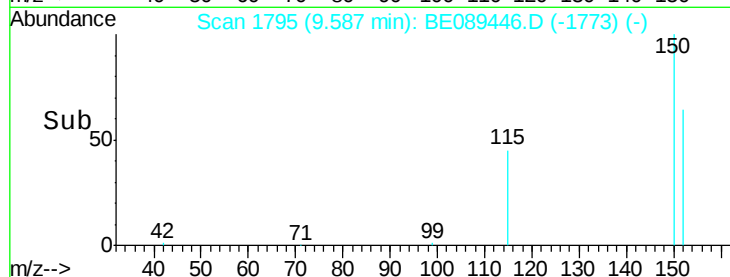
115 69.8 57.5 86.3



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# 2630

Delta R.T. -0.01 min

Lab File: BE089446.D

Acq: 30 Jan 2015 20:01

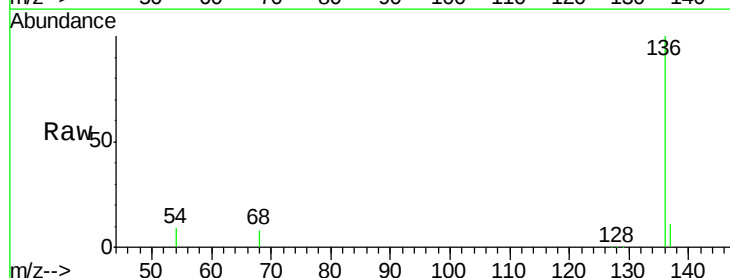
Tgt Ion:136 Resp: 277368

Ion Ratio Lower Upper

136 100

137 10.9 8.7 13.1

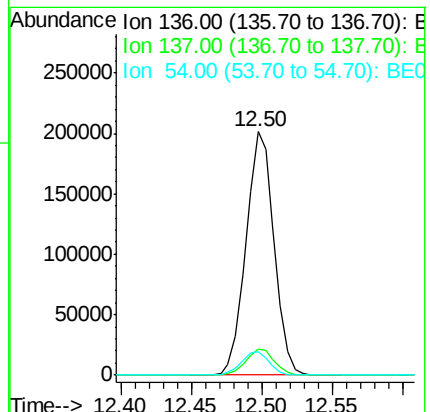
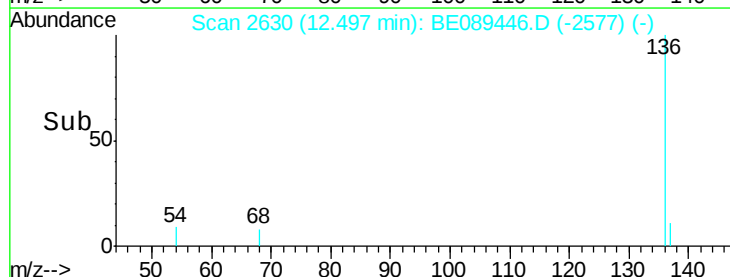
54 9.4 6.6 10.0

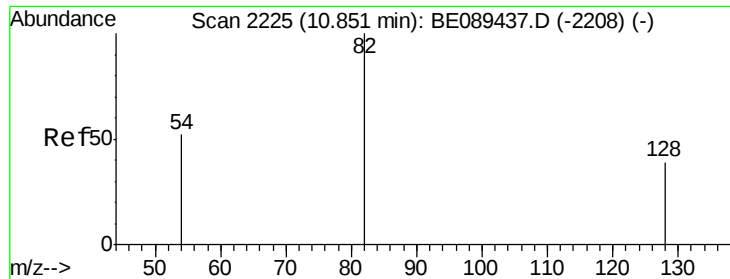


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0





#3

Nitrobenzene-d5

Concen: 6.07 ng

RT: 10.85 min Scan# 2225

Delta R.T. -0.00 min

Lab File: BE089446.D

Acq: 30 Jan 2015 20:01

Instrument :

BNA_E

ClientSampleId :

PB81495BSD

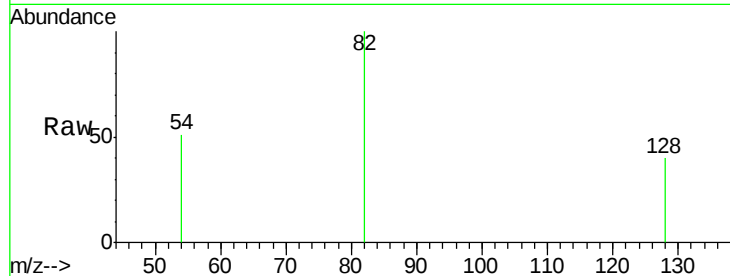
Tgt Ion: 82 Resp: 111533

Ion Ratio Lower Upper

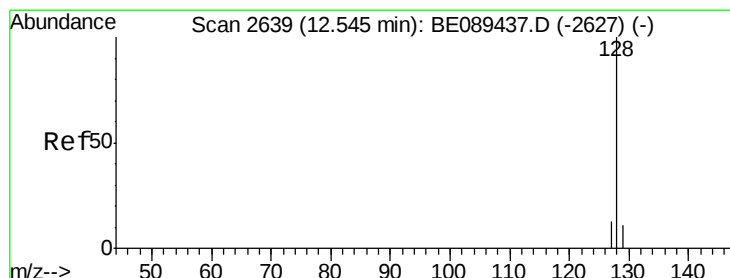
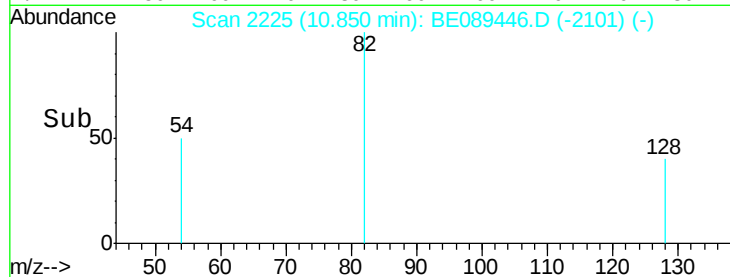
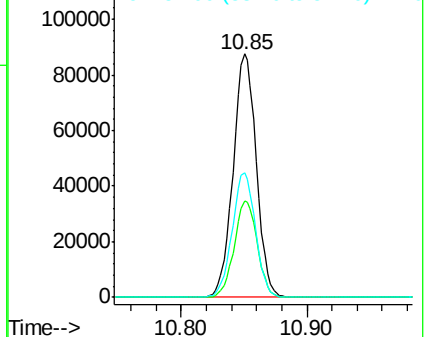
82 100

128 39.6 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: 5.14 ng

RT: 12.54 min Scan# 2639

Delta R.T. -0.00 min

Lab File: BE089446.D

Acq: 30 Jan 2015 20:01

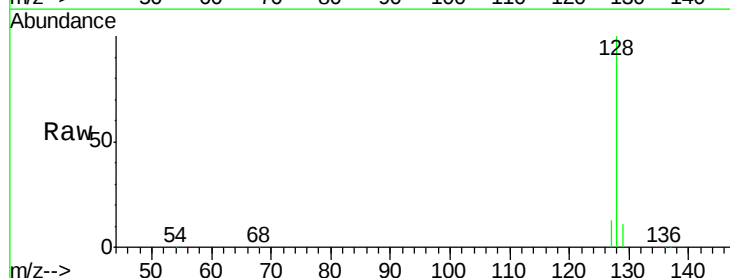
Tgt Ion: 128 Resp: 334462

Ion Ratio Lower Upper

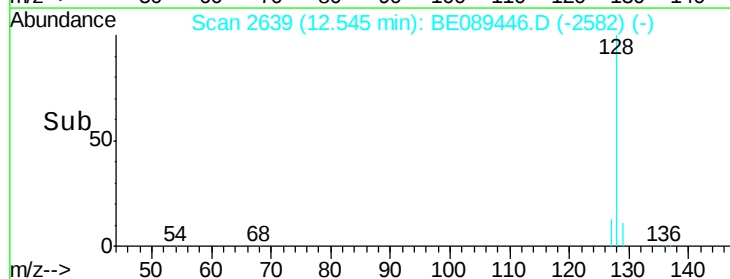
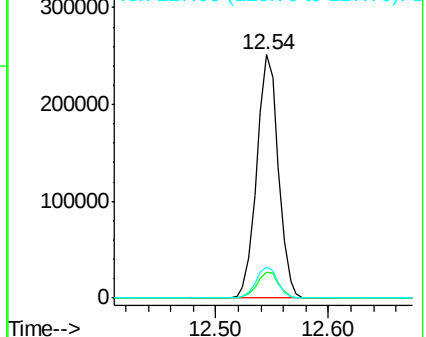
128 100

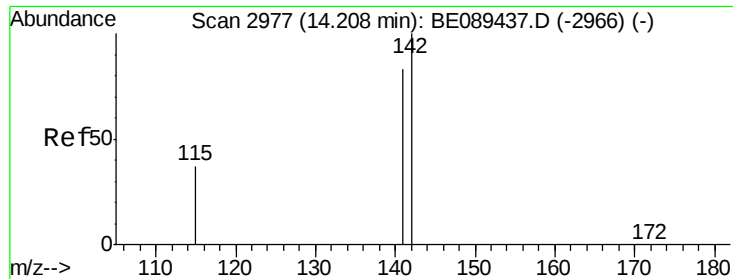
129 10.9 8.8 13.2

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: 5.17 ng

RT: 14.21 min Scan# 2977

Delta R.T. -0.00 min

Lab File: BE089446.D

Acq: 30 Jan 2015 20:01

Instrument :

BNA_E

ClientSampleId :

PB81495BSD

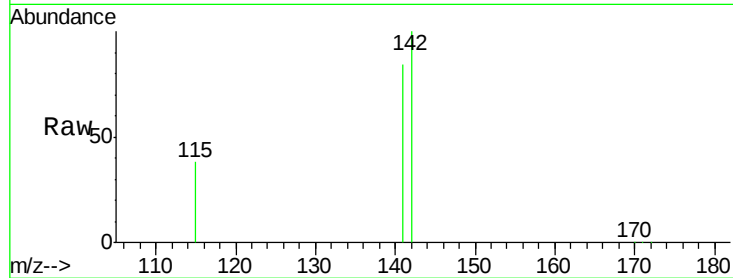
Tgt Ion:142 Resp: 203375

Ion Ratio Lower Upper

142 100

141 83.6 66.1 99.1

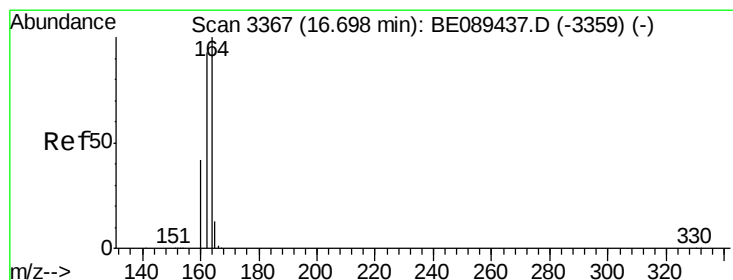
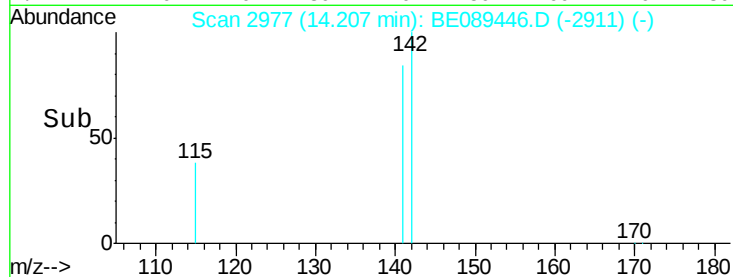
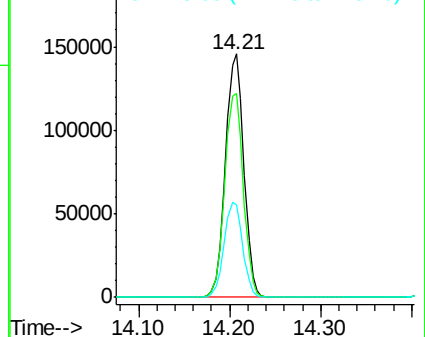
115 38.0 29.9 44.9



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: 16.69 min Scan# 3366

Delta R.T. -0.01 min

Lab File: BE089446.D

Acq: 30 Jan 2015 20:01

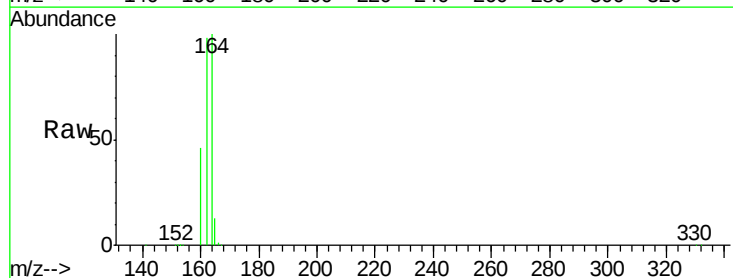
Tgt Ion:164 Resp: 136136

Ion Ratio Lower Upper

164 100

162 98.4 74.7 112.1

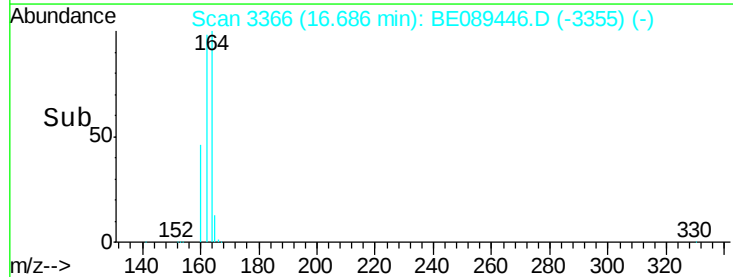
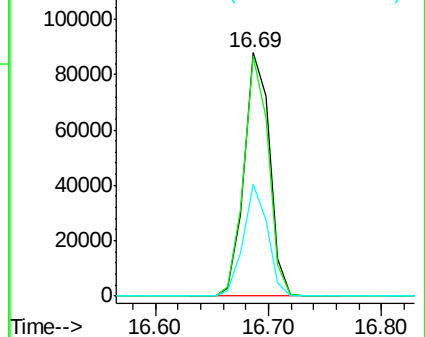
160 45.9 33.4 50.0

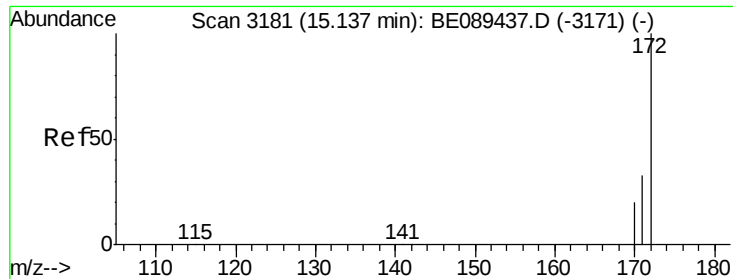


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#7

2-Fluorobiphenyl

Concen: 5.61 ng

RT: 15.13 min Scan# 3180

Delta R.T. -0.01 min

Lab File: BE089446.D

Acq: 30 Jan 2015 20:01

Instrument :

BNA_E

ClientSampleId :

PB81495BSD

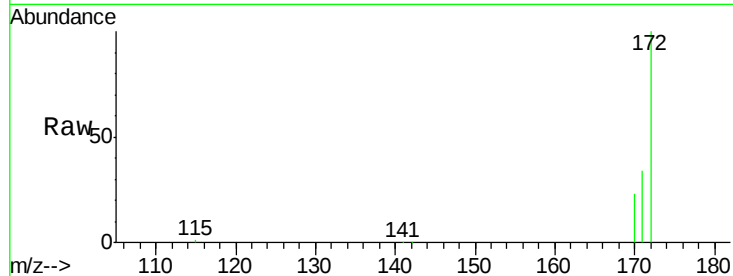
Tgt Ion:172 Resp: 201208

Ion Ratio Lower Upper

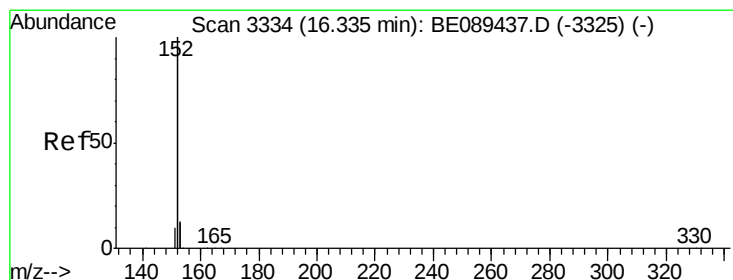
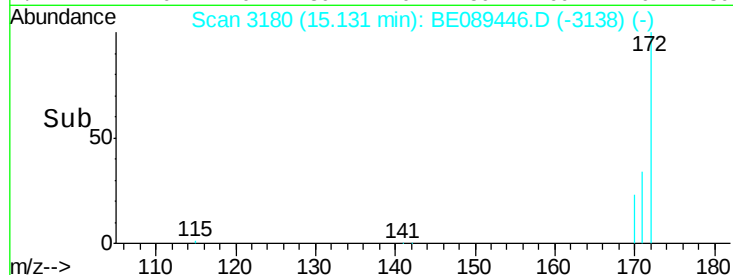
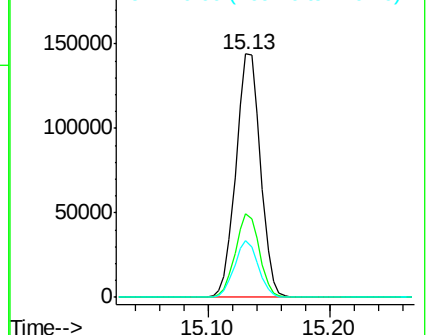
172 100

171 34.2 26.2 39.4

170 23.1 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: 4.72 ng

RT: 16.33 min Scan# 3334

Delta R.T. -0.00 min

Lab File: BE089446.D

Acq: 30 Jan 2015 20:01

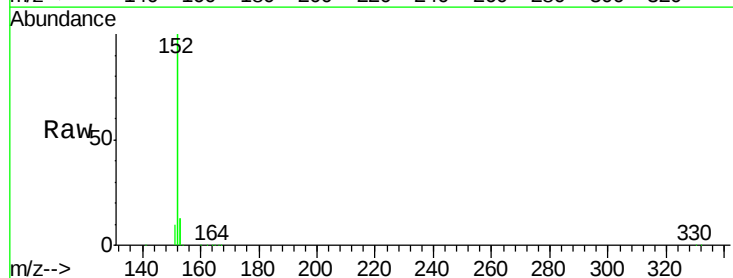
Tgt Ion:152 Resp: 1154979

Ion Ratio Lower Upper

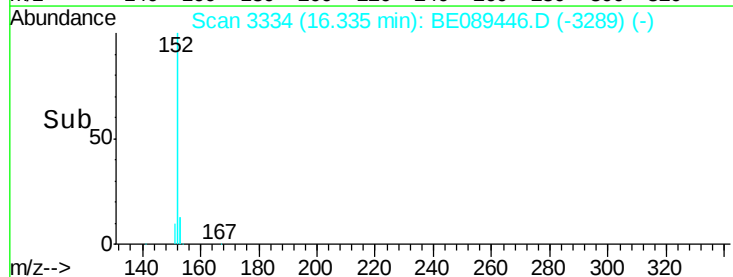
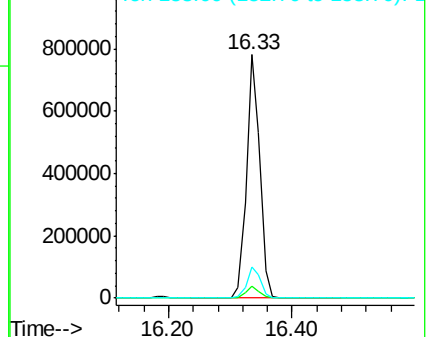
152 100

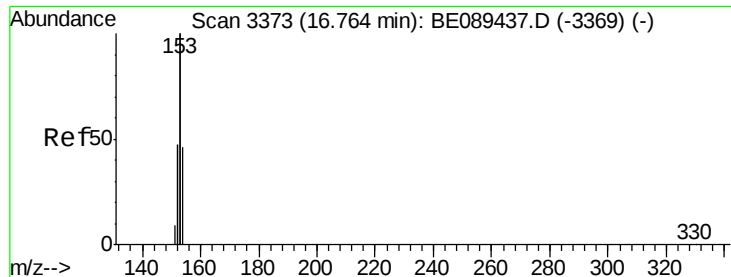
151 4.9 3.9 5.9

153 13.0 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: 4.62 ng

RT: 16.76 min Scan# 3373

Delta R.T. -0.00 min

Lab File: BE089446.D

Acq: 30 Jan 2015 20:01

Instrument :

BNA_E

ClientSampleId :

PB81495BSD

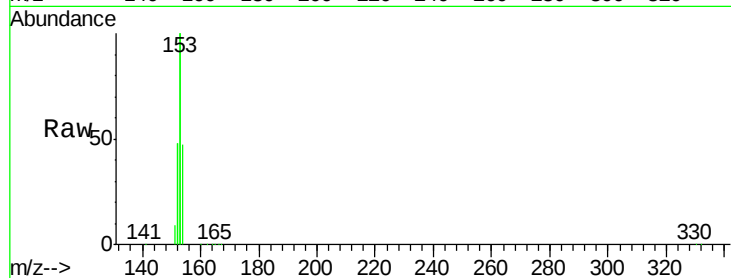
Tgt Ion:154 Resp: 169943

Ion Ratio Lower Upper

154 100

153 428.8 342.3 513.5

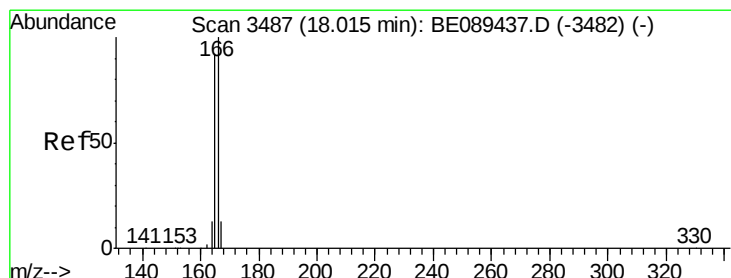
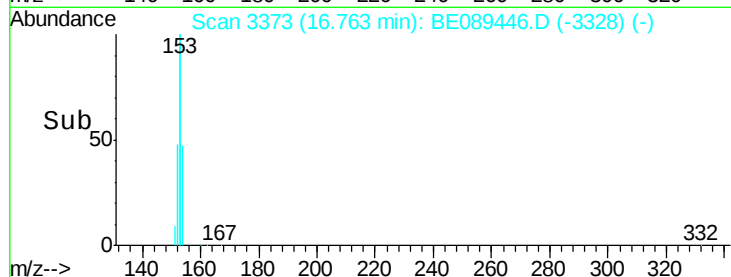
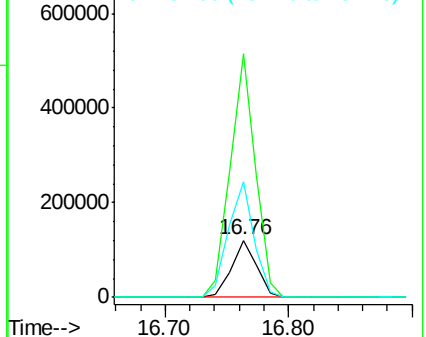
152 208.2 165.5 248.3



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: 4.71 ng

RT: 18.01 min Scan# 3487

Delta R.T. -0.00 min

Lab File: BE089446.D

Acq: 30 Jan 2015 20:01

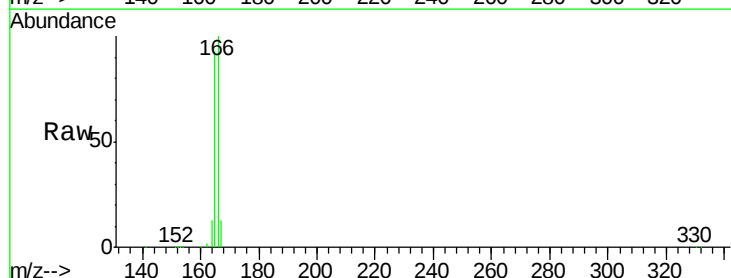
Tgt Ion:166 Resp: 192664

Ion Ratio Lower Upper

166 100

165 93.2 74.4 111.6

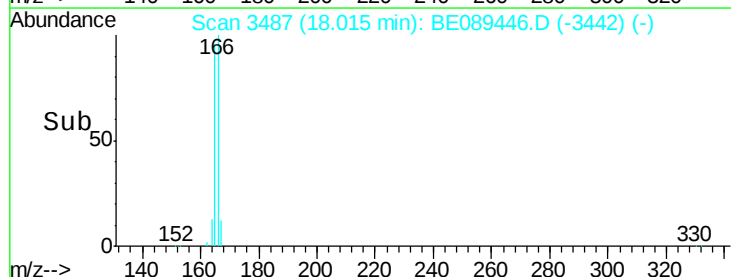
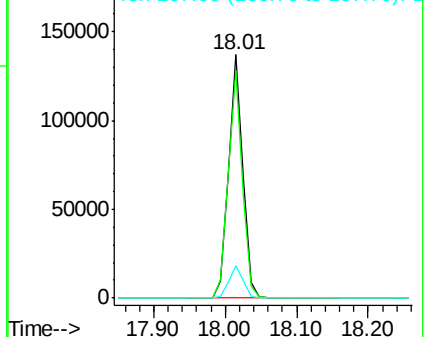
167 13.2 10.6 15.8

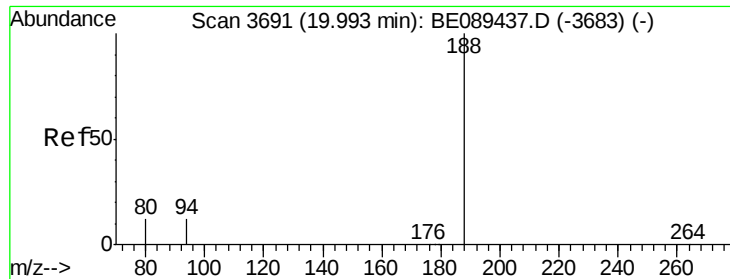


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

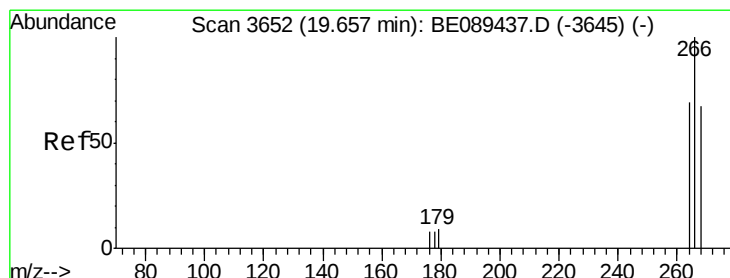
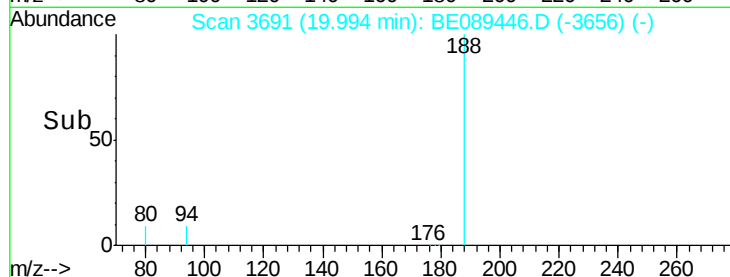
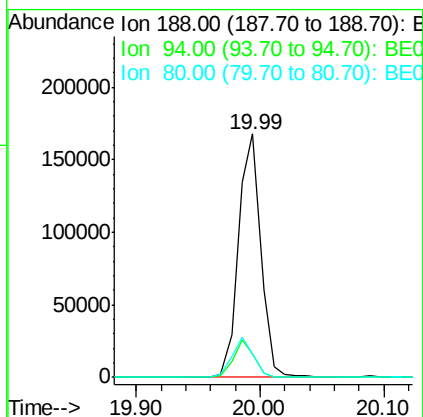
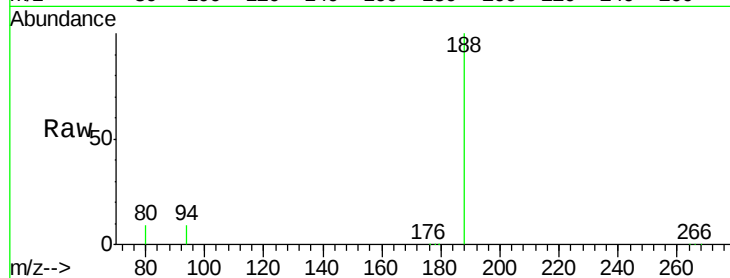




#11
Phenanthrene-d10
Concen: 5.00 ng
RT: 19.99 min Scan# 3691
Delta R.T. 0.00 min
Lab File: BE089446.D
Acq: 30 Jan 2015 20:01

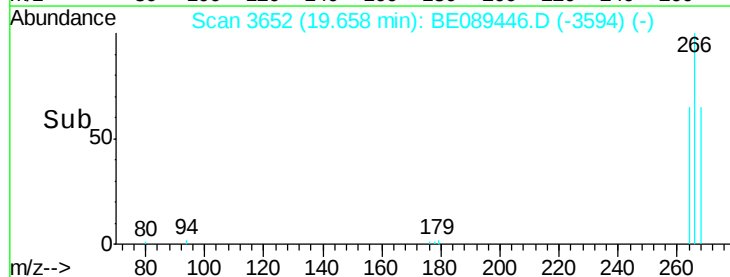
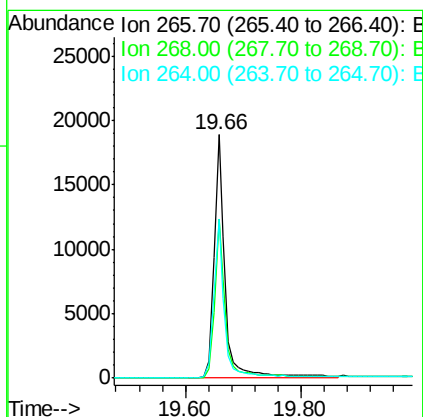
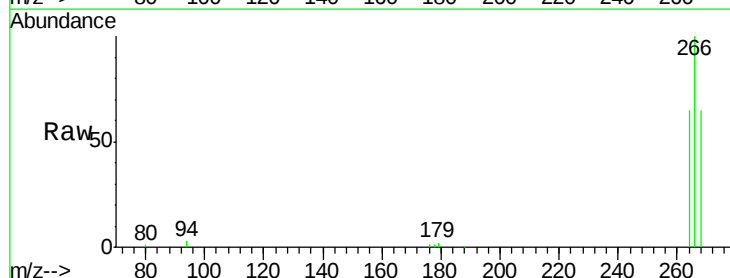
Instrument :
BNA_E
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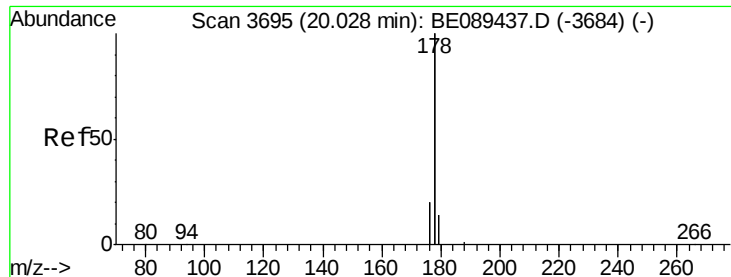
Tgt Ion:188 Resp: 209991
Ion Ratio Lower Upper
188 100
94 9.5 9.4 14.0
80 9.4 9.3 13.9



#12
Pentachlorophenol
Concen: 10.52 ng
RT: 19.66 min Scan# 3652
Delta R.T. 0.00 min
Lab File: BE089446.D
Acq: 30 Jan 2015 20:01

Tgt Ion:266 Resp: 25616
Ion Ratio Lower Upper
266 100
268 65.2 54.2 81.4
264 65.3 56.2 84.2





#13

Phenanthrene

Concen: 5.29 ng

RT: 20.03 min Scan# 3695

Delta R.T. 0.00 min

Lab File: BE089446.D

Acq: 30 Jan 2015 20:01

Instrument :

BNA_E

ClientSampleId :

PB81495BSD

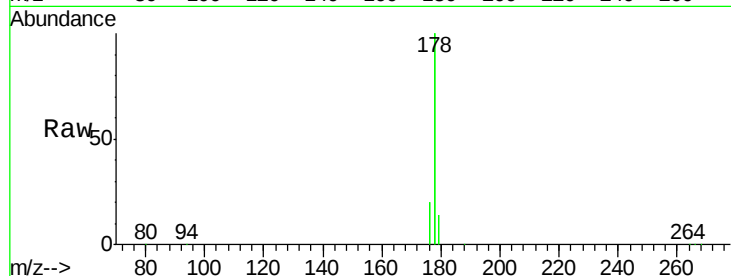
Tgt Ion:178 Resp: 1092425

Ion Ratio Lower Upper

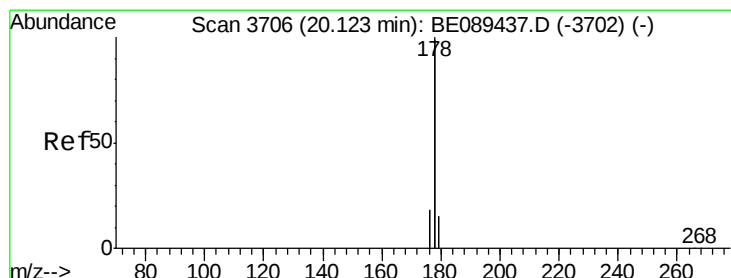
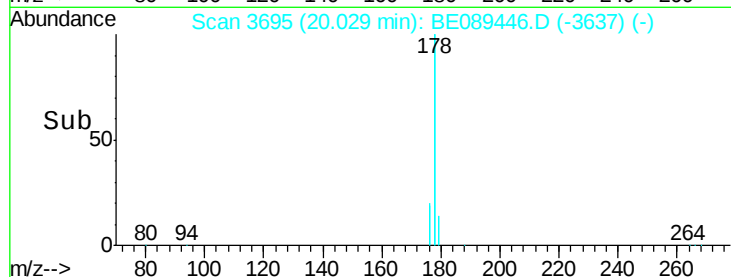
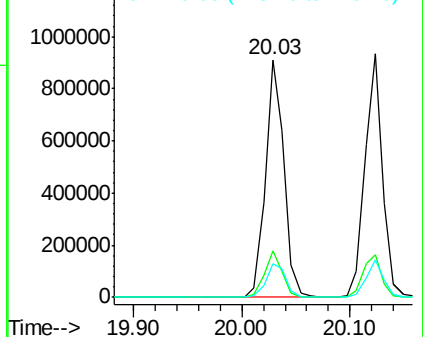
178 100

176 18.8 15.1 22.7

179 15.2 12.3 18.5



Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E



#14

Anthracene

Concen: 5.70 ng

RT: 20.12 min Scan# 3706

Delta R.T. 0.00 min

Lab File: BE089446.D

Acq: 30 Jan 2015 20:01

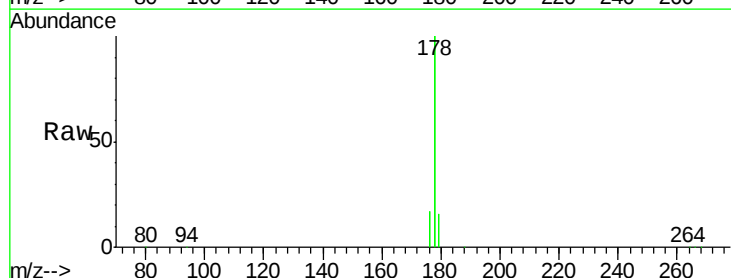
Tgt Ion:178 Resp: 1073933

Ion Ratio Lower Upper

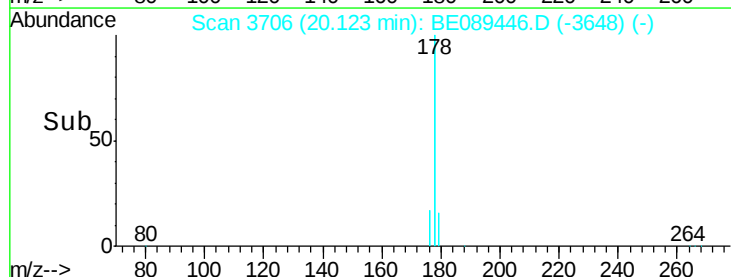
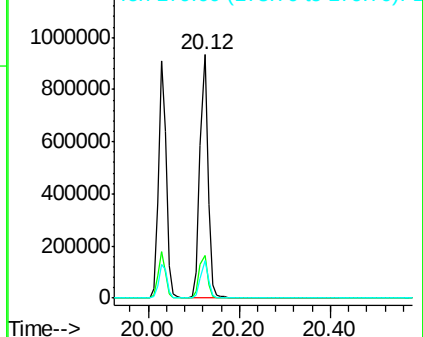
178 100

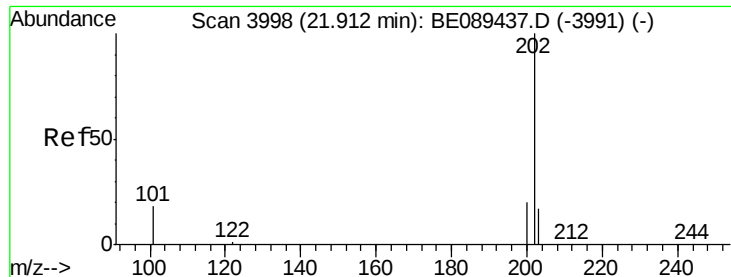
176 18.3 14.6 22.0

179 15.0 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

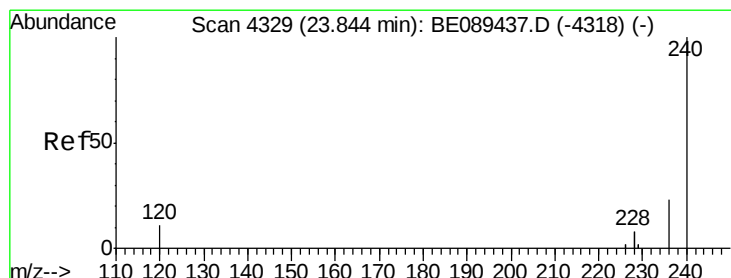
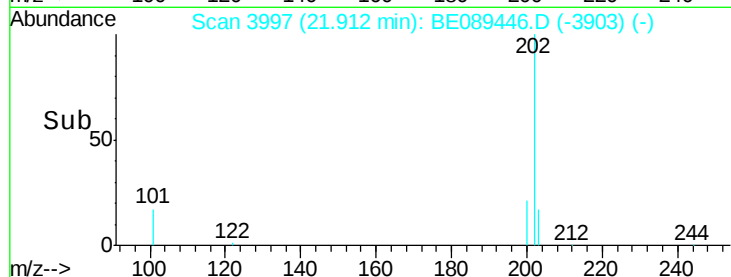
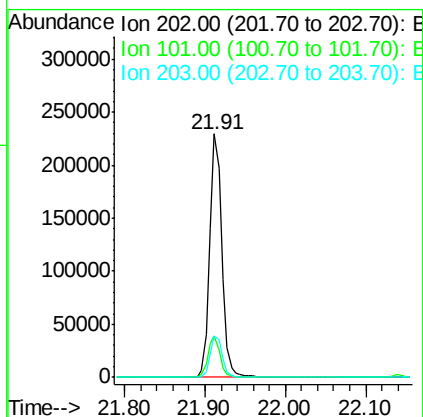
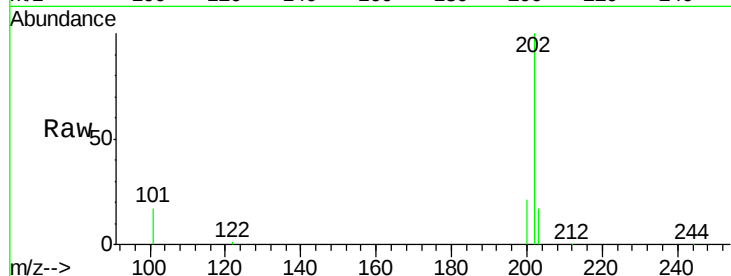




#15
 Fluoranthene
 Concen: 5.35 ng
 RT: 21.91 min Scan# 3997
 Delta R.T. -0.00 min
 Lab File: BE089446.D
 Acq: 30 Jan 2015 20:01

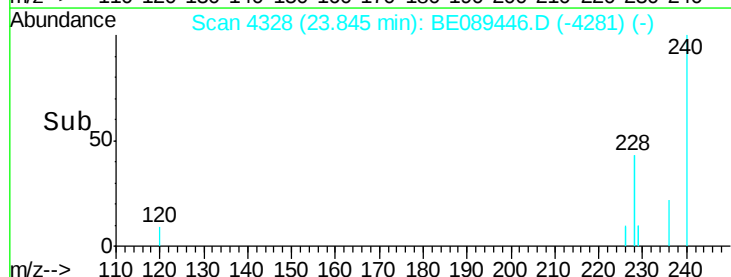
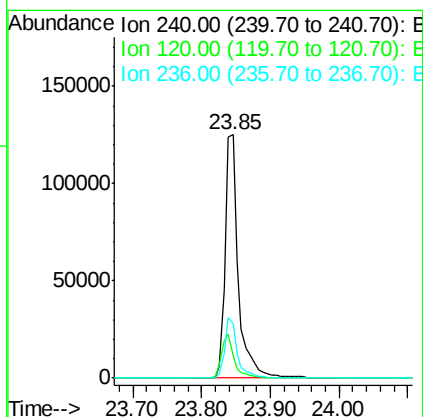
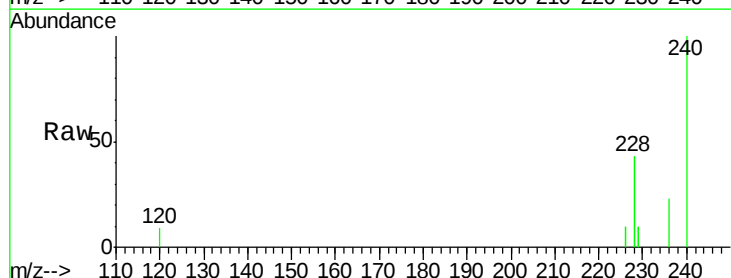
Instrument :
 BNA_E
 ClientSampleId :
 PB81495BSD

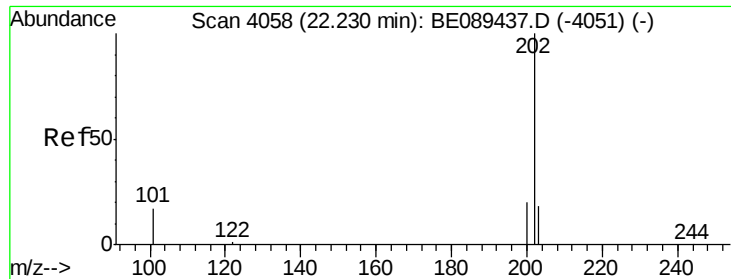
Tgt Ion: 202 Resp: 241176
 Ion Ratio Lower Upper
 202 100
 101 16.5 13.6 20.4
 203 17.2 13.8 20.6



#16
 Chrysene-d12
 Concen: 5.00 ng
 RT: 23.85 min Scan# 4328
 Delta R.T. 0.00 min
 Lab File: BE089446.D
 Acq: 30 Jan 2015 20:01

Tgt Ion: 240 Resp: 168647
 Ion Ratio Lower Upper
 240 100
 120 9.2 8.6 13.0
 236 22.5 18.7 28.1

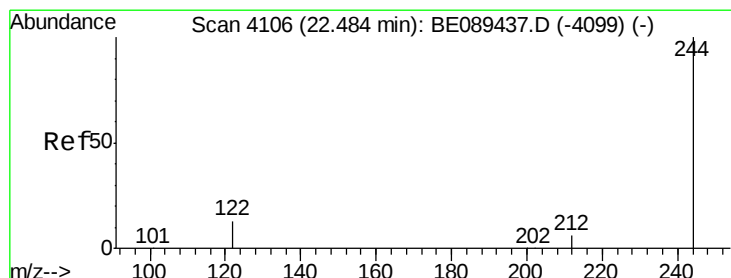
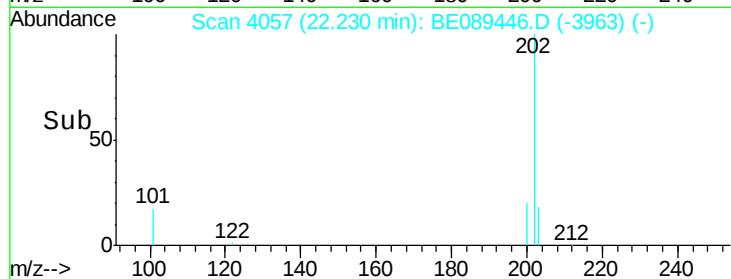
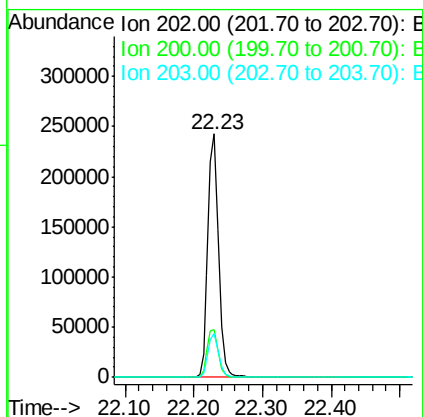
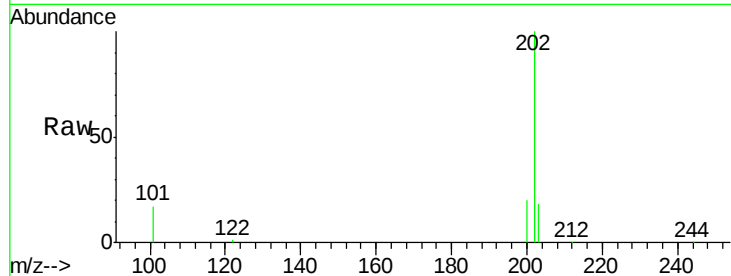




#17
 Pyrene
 Concen: 5.79 ng
 RT: 22.23 min Scan# 4057
 Delta R.T. -0.00 min
 Lab File: BE089446.D
 Acq: 30 Jan 2015 20:01

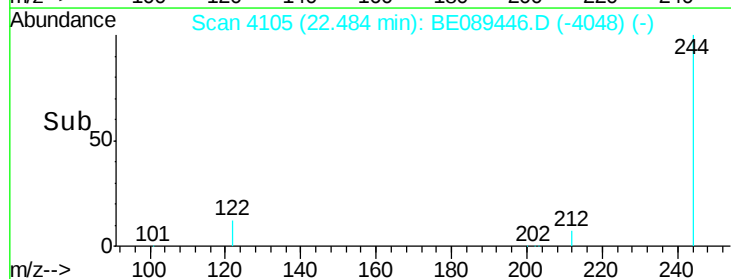
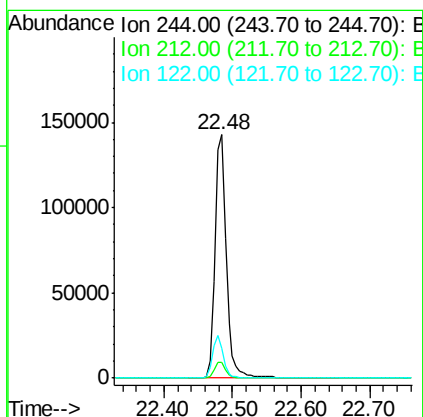
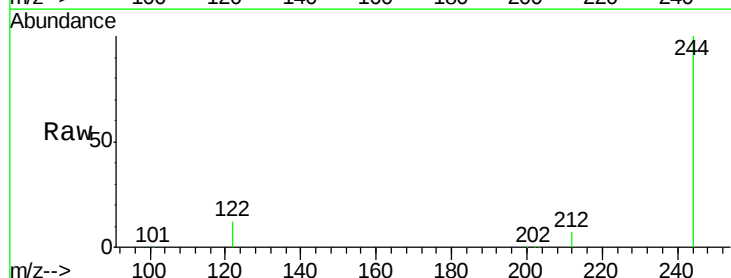
Instrument :
 BNA_E
 ClientSampleId :
 PB81495BSD

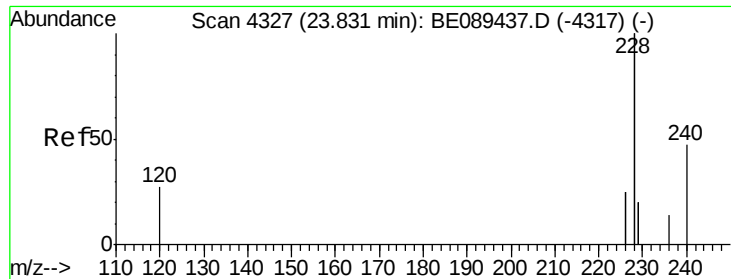
Tgt Ion: 202 Resp: 258870
 Ion Ratio Lower Upper
 202 100
 200 20.5 16.2 24.4
 203 17.8 13.8 20.8



#18
 Terphenyl-d14
 Concen: 6.27 ng
 RT: 22.48 min Scan# 4105
 Delta R.T. -0.00 min
 Lab File: BE089446.D
 Acq: 30 Jan 2015 20:01

Tgt Ion: 244 Resp: 158273
 Ion Ratio Lower Upper
 244 100
 212 6.6 5.0 7.6
 122 12.2 10.2 15.4





#19

Benzo(a)anthracene

Concen: 5.38 ng

RT: 23.83 min Scan# 4325

Delta R.T. -0.01 min

Lab File: BE089446.D

Acq: 30 Jan 2015 20:01

Instrument :

BNA_E

ClientSampleId :

PB81495BSD

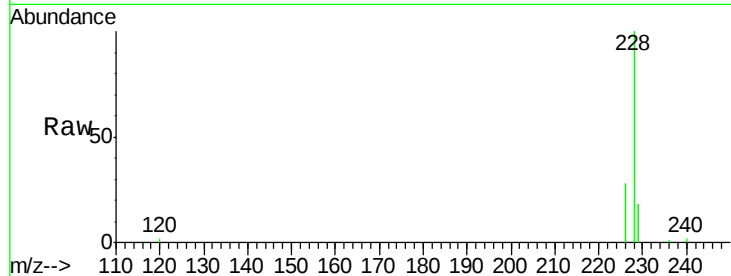
Tgt Ion:228 Resp: 763571

Ion Ratio Lower Upper

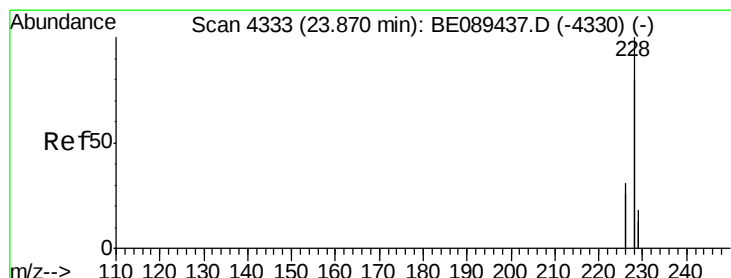
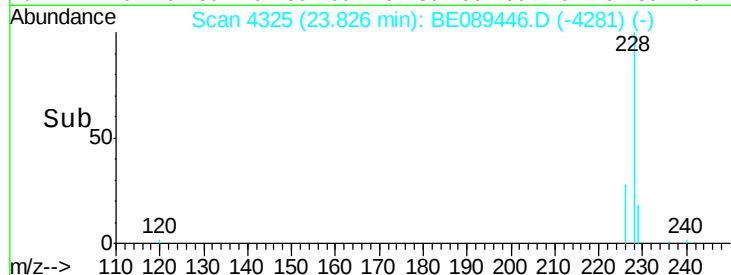
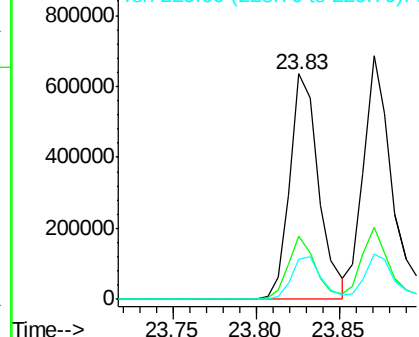
228 100

226 28.0 20.0 30.0

229 17.9 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: 5.52 ng

RT: 23.87 min Scan# 4332

Delta R.T. 0.00 min

Lab File: BE089446.D

Acq: 30 Jan 2015 20:01

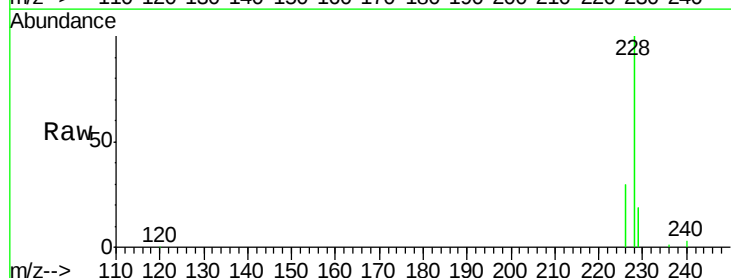
Tgt Ion:228 Resp: 883641

Ion Ratio Lower Upper

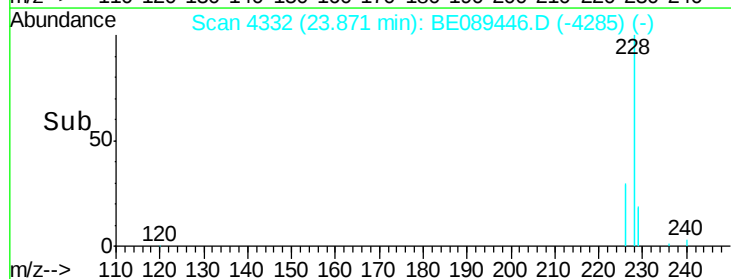
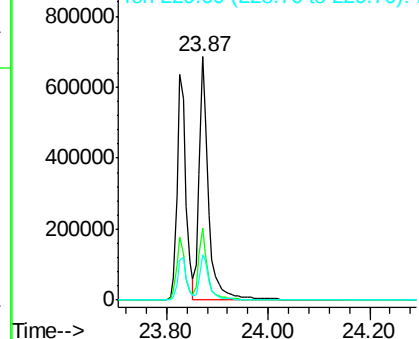
228 100

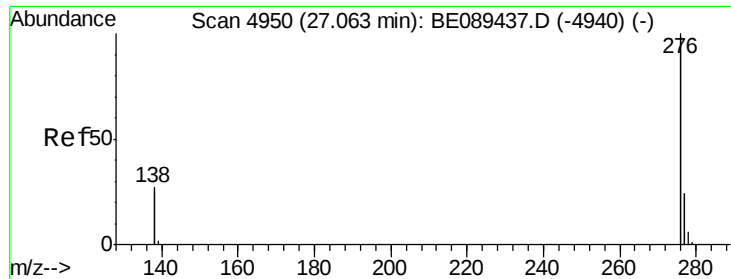
226 29.6 24.5 36.7

229 18.5 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: 5.41 ng

RT: 27.06 min Scan# 4949

Delta R.T. -0.00 min

Lab File: BE089446.D

Acq: 30 Jan 2015 20:01

Instrument :

BNA_E

ClientSampleId :

PB81495BSD

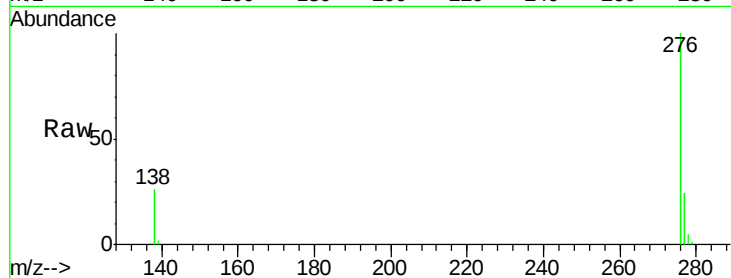
Tgt Ion:276 Resp: 756065

Ion Ratio Lower Upper

276 100

138 31.6 25.4 38.0

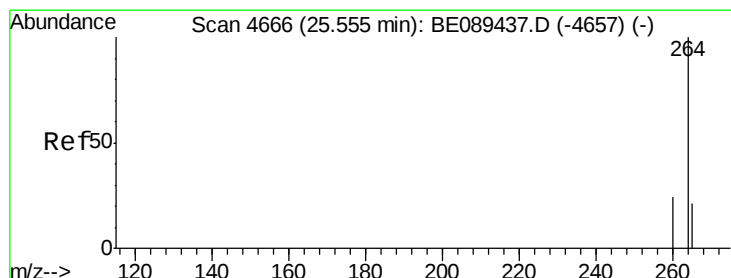
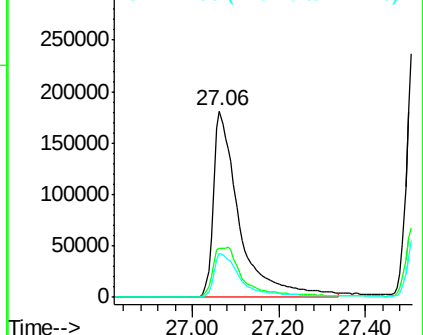
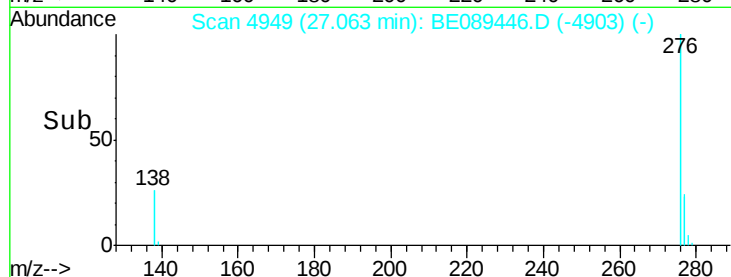
277 24.8 19.8 29.6



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: 25.56 min Scan# 4665

Delta R.T. 0.00 min

Lab File: BE089446.D

Acq: 30 Jan 2015 20:01

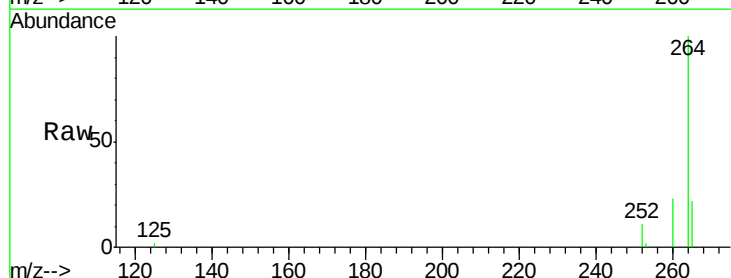
Tgt Ion:264 Resp: 144970

Ion Ratio Lower Upper

264 100

260 23.1 19.4 29.0

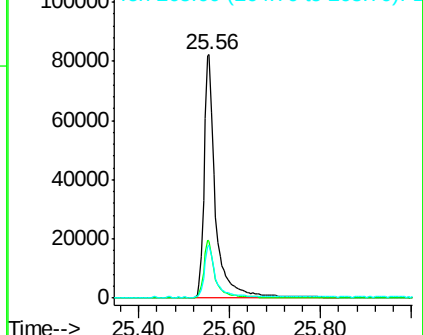
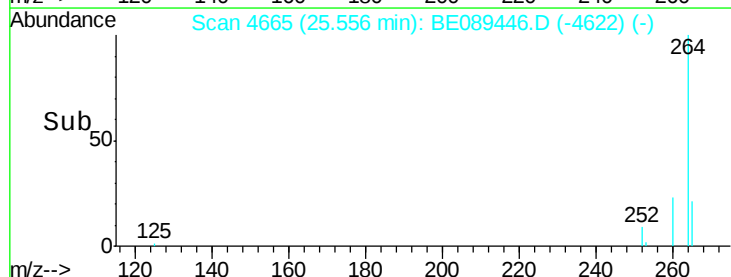
265 21.7 17.0 25.6

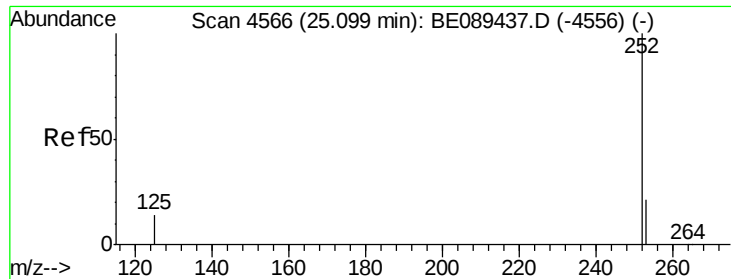


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#23

Benzo(b)fluoranthene

Concen: 5.21 ng

RT: 25.10 min Scan# 4565

Delta R.T. 0.00 min

Lab File: BE089446.D

Acq: 30 Jan 2015 20:01

Instrument :

BNA_E

ClientSampleId :

PB81495BSD

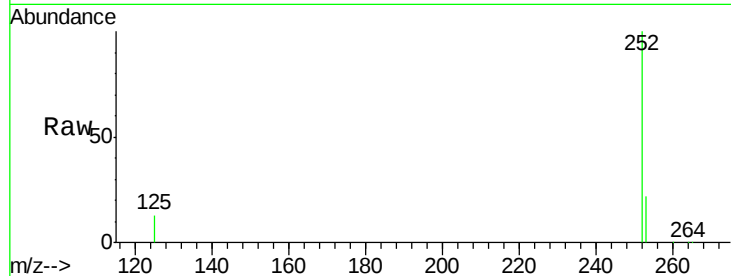
Tgt Ion:252 Resp: 134657

Ion Ratio Lower Upper

252 100

253 21.9 17.0 25.6

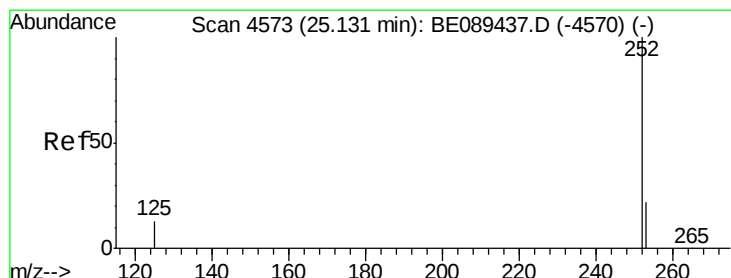
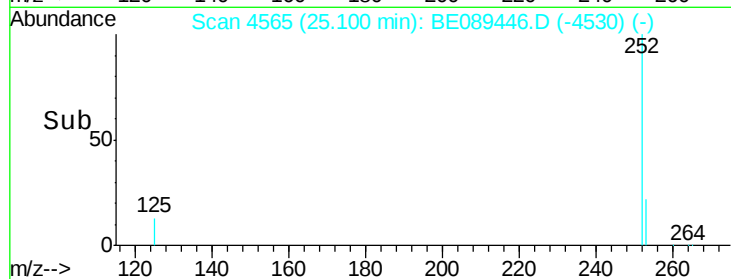
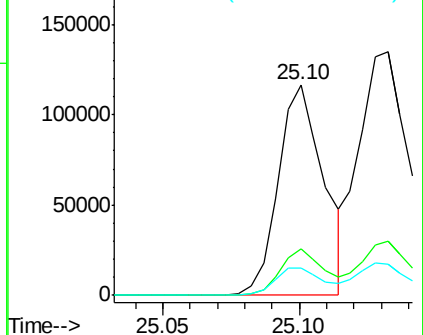
125 12.9 11.4 17.0



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: 6.39 ng

RT: 25.13 min Scan# 4572

Delta R.T. 0.00 min

Lab File: BE089446.D

Acq: 30 Jan 2015 20:01

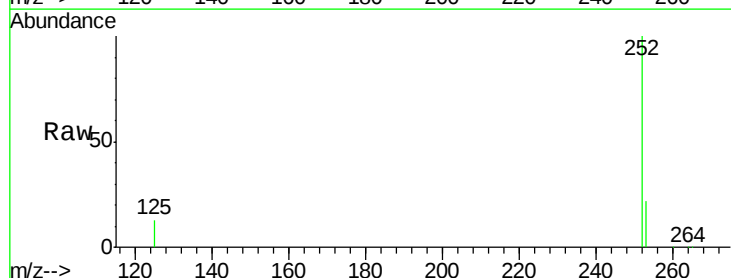
Tgt Ion:252 Resp: 235828

Ion Ratio Lower Upper

252 100

253 22.0 17.4 26.2

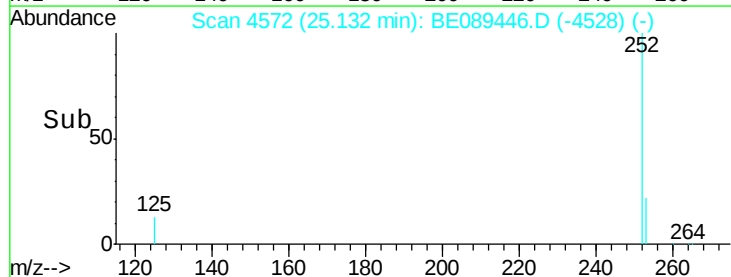
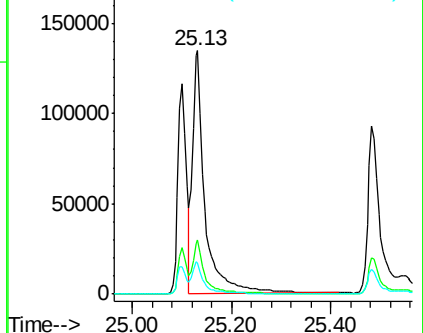
125 12.6 10.9 16.3

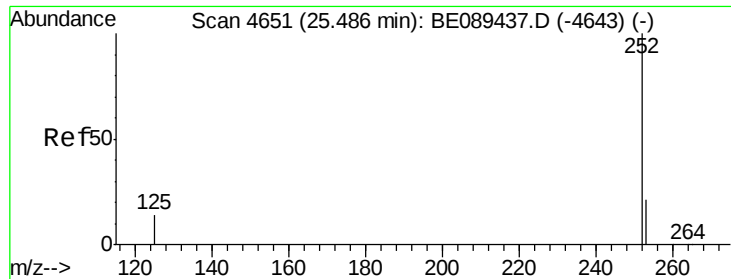


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#25

Benzo(a)pyrene

Concen: 5.65 ng

RT: 25.48 min Scan# 4649

Delta R.T. -0.00 min

Lab File: BE089446.D

Acq: 30 Jan 2015 20:01

Instrument :

BNA_E

ClientSampleId :

PB81495BSD

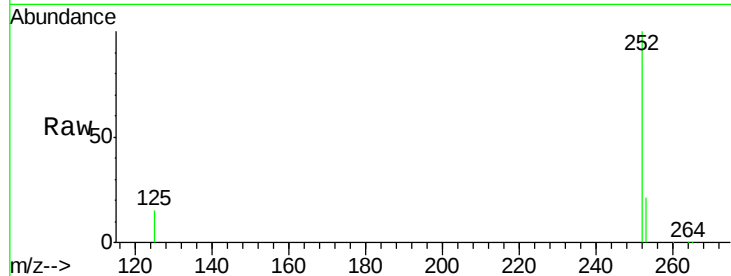
Tgt Ion: 252 Resp: 148272

Ion Ratio Lower Upper

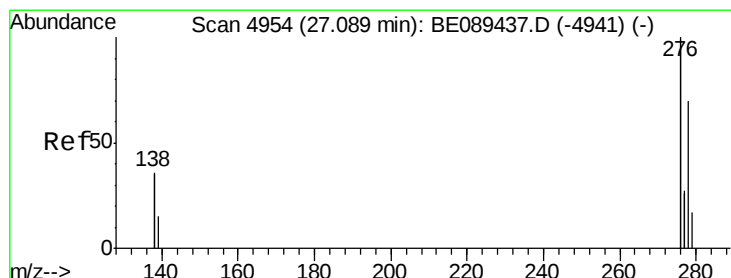
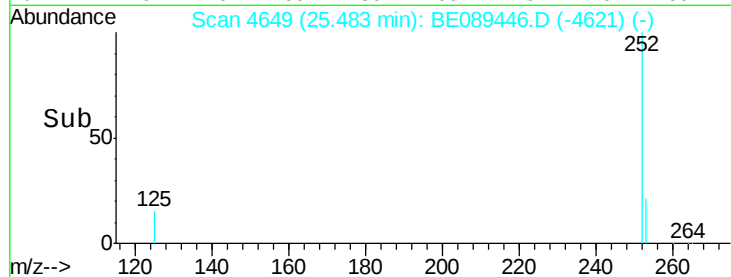
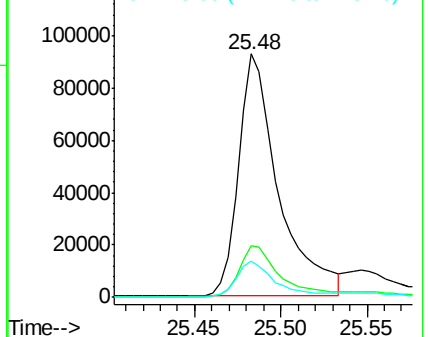
252 100

253 21.2 17.3 25.9

125 15.1 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: 5.44 ng

RT: 27.10 min Scan# 4954

Delta R.T. 0.01 min

Lab File: BE089446.D

Acq: 30 Jan 2015 20:01

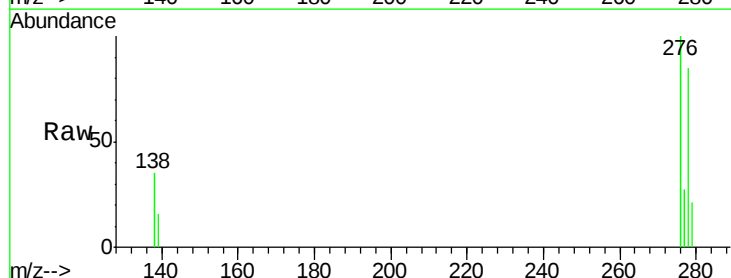
Tgt Ion: 278 Resp: 162079

Ion Ratio Lower Upper

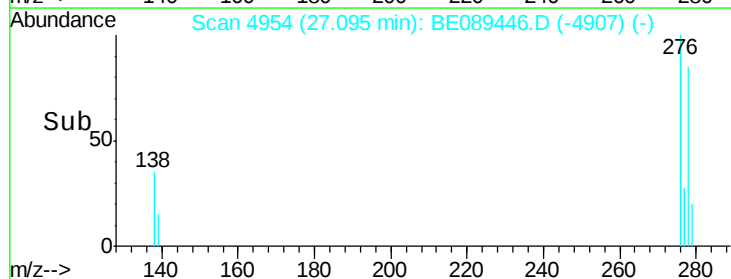
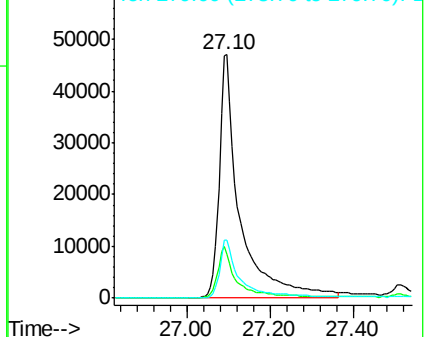
278 100

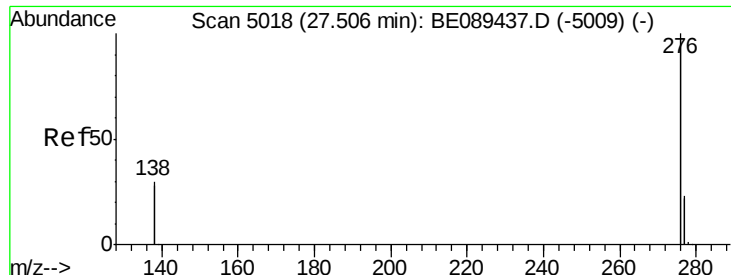
139 18.2 17.0 25.4

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: 6.04 ng

RT: 27.51 min Scan# 5018

Delta R.T. 0.01 min

Lab File: BE089446.D

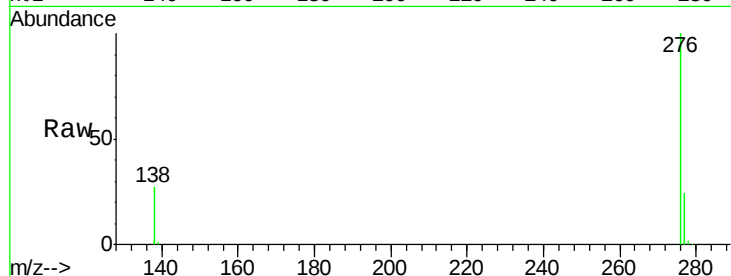
Acq: 30 Jan 2015 20:01

Instrument :

BNA_E

ClientSampleId :

PB81495BSD



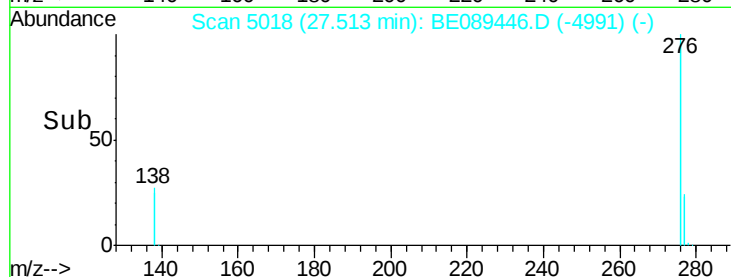
Tgt Ion: 276 Resp: 700122

Ion Ratio Lower Upper

276 100

277 24.1 18.4 27.6

138 26.7 23.7 35.5



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

