

Data Path : Z:\HPCHEM1\BNA_E\Data\BE013015\
 Data File : BE089445.D
 Acq On : 30 Jan 2015 19:22
 Operator : TP/IZ
 Sample : PB81495BS
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 PB81495BS

Quant Time: Feb 02 00:09:43 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

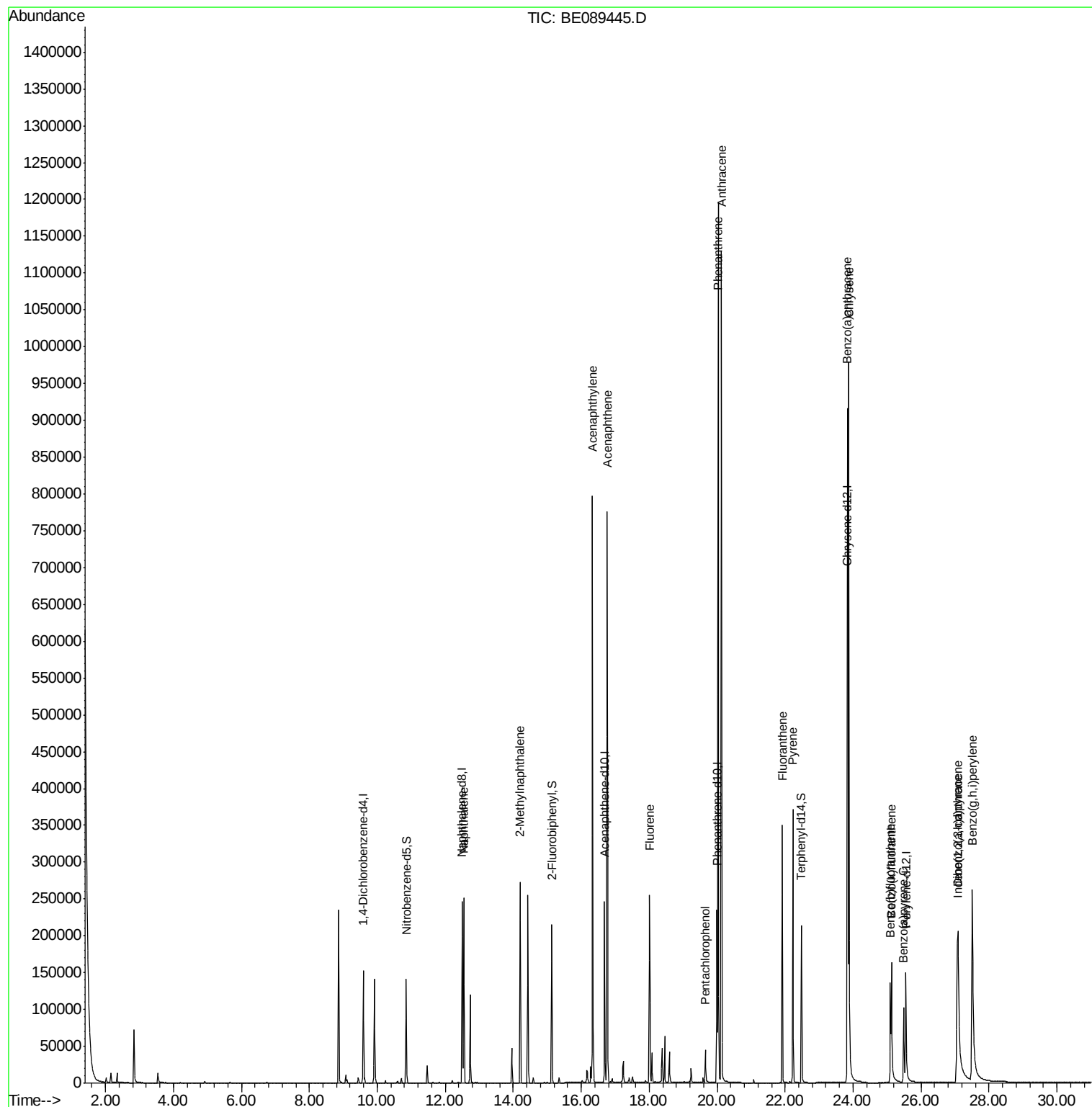
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.59	152	61554	5.00	ng	0.00
2) Naphthalene-d8	12.50	136	262028	5.00	ng	0.00
6) Acenaphthene-d10	16.69	164	142879	5.00	ng	-0.01
11) Phenanthrene-d10	19.99	188	247249	5.00	ng	0.00
16) Chrysene-d12	23.84	240	208080	5.00	ng	0.00
22) Perylene-d12	25.55	264	157668	5.00	ng	0.00
System Monitoring Compounds						
3) Nitrobenzene-d5	10.85	82	95986	5.53	ng	0.00
7) 2-Fluorobiphenyl	15.13	172	188901	5.02	ng	0.00
18) Terphenyl-d14	22.48	244	192177	6.17	ng	0.00
Target Compounds						Qvalue
4) Naphthalene	12.55	128	277977	4.52	ng	100
5) 2-Methylnaphthalene	14.21	142	168692	4.54	ng	99
8) Acenaphthylene	16.34	152	982341	3.82	ng	100
9) Acenaphthene	16.76	154	146236	3.79	ng	100
10) Fluorene	18.02	166	170393	3.97	ng	98
12) Pentachlorophenol	19.66	266	25016	9.46	ng	93
13) Phenanthrene	20.03	178	1017150	4.19	ng	100
14) Anthracene	20.12	178	1006892	4.54	ng	99
15) Fluoranthene	21.91	202	235588	4.44	ng	99
17) Pyrene	22.23	202	254974	4.62	ng	99
19) Benzo(a)anthracene	23.83	228	745876	4.26	ng	94
20) Chrysene	23.87	228	873581	4.42	ng	99
21) Indeno(1,2,3-cd)pyrene	27.06	276	569200	3.30	ng	100
23) Benzo(b)fluoranthene	25.10	252	113342	4.07	ng	99
24) Benzo(k)fluoranthene	25.13	252	213401	5.31	ng	99
25) Benzo(a)pyrene	25.49	252	124958	4.40	ng	99
26) Dibenzo(a,h)anthracene	27.09	278	120420	3.76	ng	99
27) Benzo(g,h,i)perylene	27.51	276	533570	4.23	ng	96

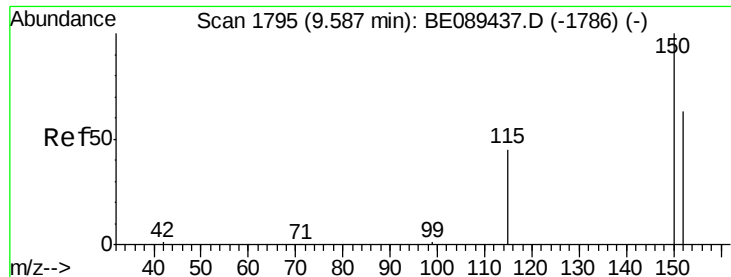
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: BE089445.D

Acq: 30 Jan 2015 19:22

Instrument :

BNA_E

ClientSampleId :

PB81495BS

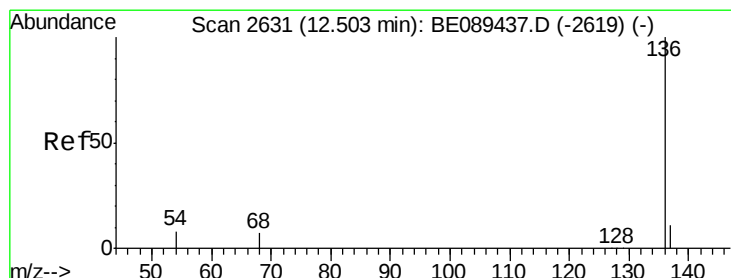
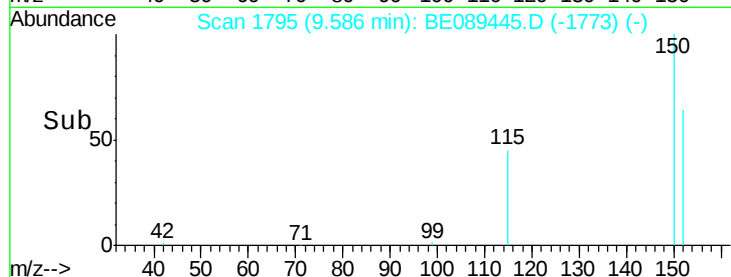
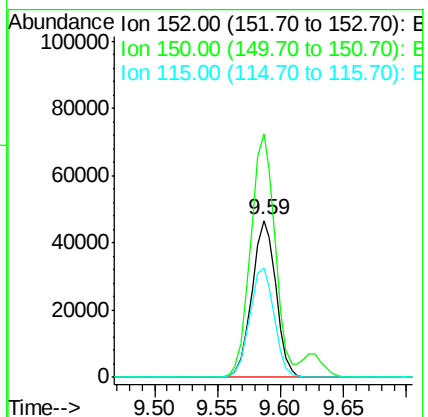
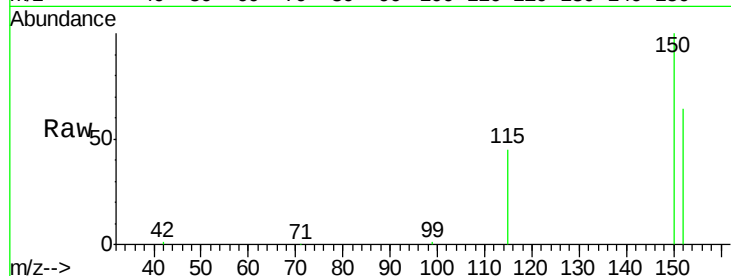
Tgt Ion:152 Resp: 61554

Ion Ratio Lower Upper

152 100

150 155.3 127.2 190.8

115 69.5 57.5 86.3



#2

Naphthalene-d8

Concen: 5.00 ng

RT: 12.50 min Scan# 2629

Delta R.T. -0.00 min

Lab File: BE089445.D

Acq: 30 Jan 2015 19:22

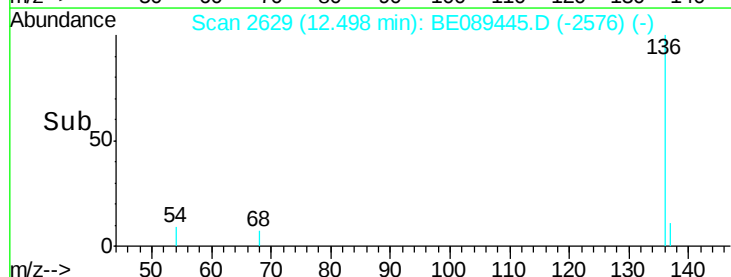
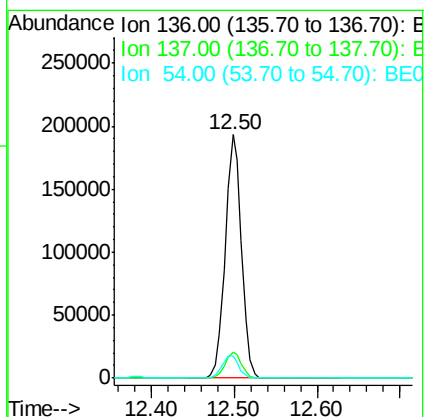
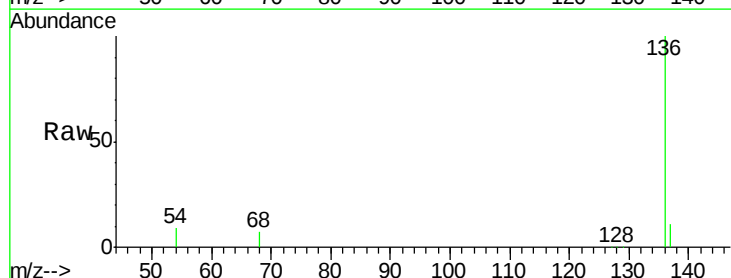
Tgt Ion:136 Resp: 262028

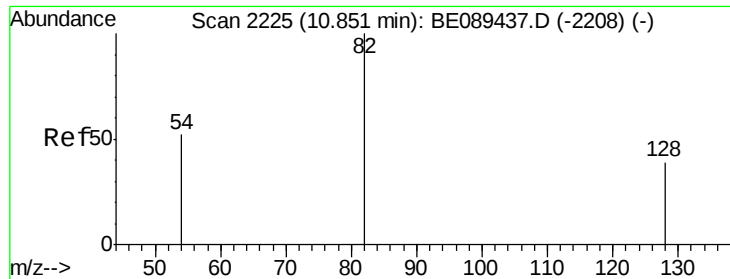
Ion Ratio Lower Upper

136 100

137 10.7 8.7 13.1

54 9.3 6.6 10.0

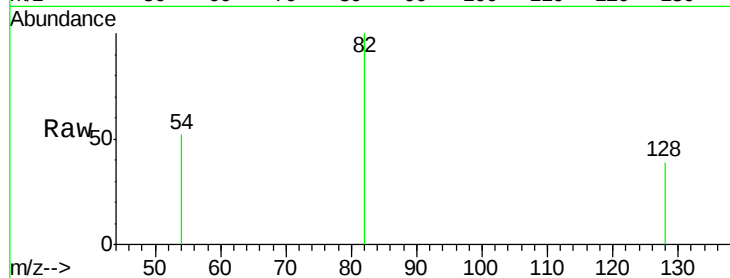




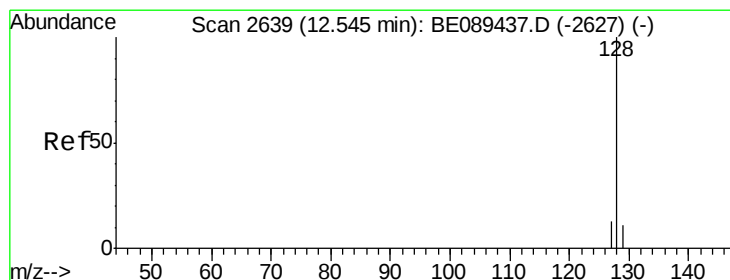
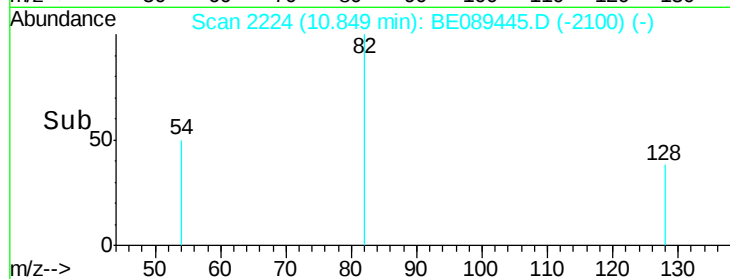
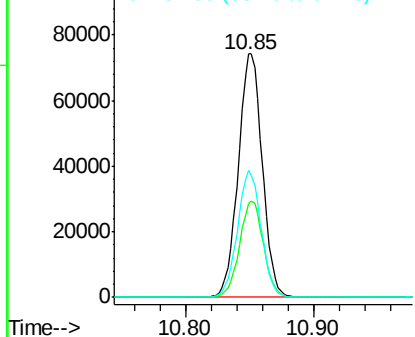
#3
 Nitrobenzene-d5
 Concen: 5.53 ng
 RT: 10.85 min Scan# 2224
 Delta R.T. -0.00 min
 Lab File: BE089445.D
 Acq: 30 Jan 2015 19:22

Instrument :
 BNA_E
 ClientSampleId :
 PB81495BS

Tgt Ion: 82 Resp: 95986
 Ion Ratio Lower Upper
 82 100
 128 38.5 31.2 46.8
 54 52.2 41.9 62.9

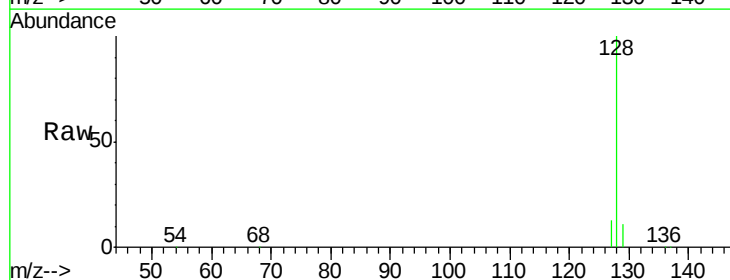


Abundance Ion 82.00 (81.70 to 82.70): BE0
 Ion 128.00 (127.70 to 128.70): BE0
 Ion 54.00 (53.70 to 54.70): BE0

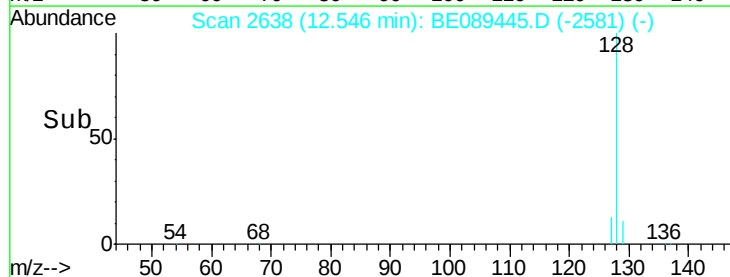
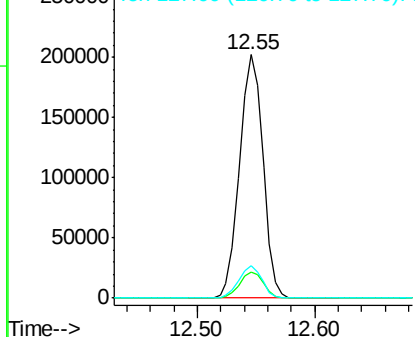


#4
 Naphthalene
 Concen: 4.52 ng
 RT: 12.55 min Scan# 2638
 Delta R.T. 0.00 min
 Lab File: BE089445.D
 Acq: 30 Jan 2015 19:22

Tgt Ion: 128 Resp: 277977
 Ion Ratio Lower Upper
 128 100
 129 10.9 8.8 13.2
 127 13.1 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: 4.54 ng

RT: 14.21 min Scan# 2976

Delta R.T. -0.00 min

Lab File: BE089445.D

Acq: 30 Jan 2015 19:22

Instrument :

BNA_E

ClientSampleId :

PB81495BS

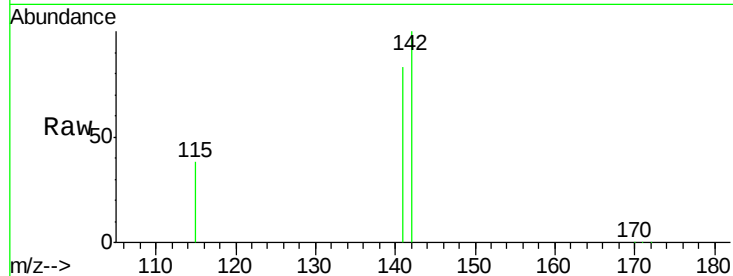
Tgt Ion:142 Resp: 168692

Ion Ratio Lower Upper

142 100

141 83.4 66.1 99.1

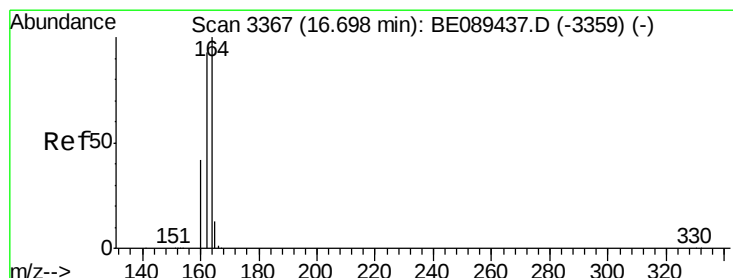
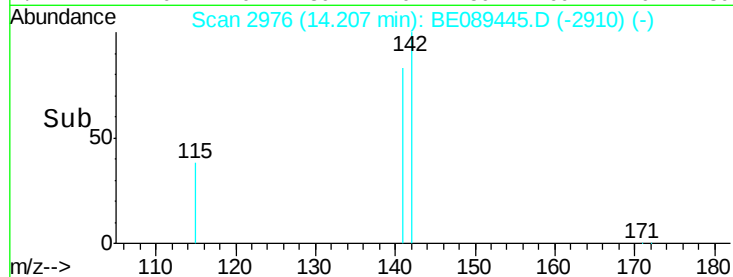
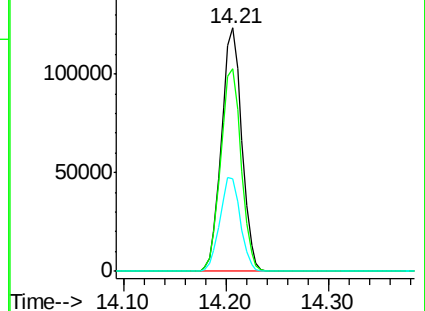
115 38.0 29.9 44.9



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# 3365

Delta R.T. -0.01 min

Lab File: BE089445.D

Acq: 30 Jan 2015 19:22

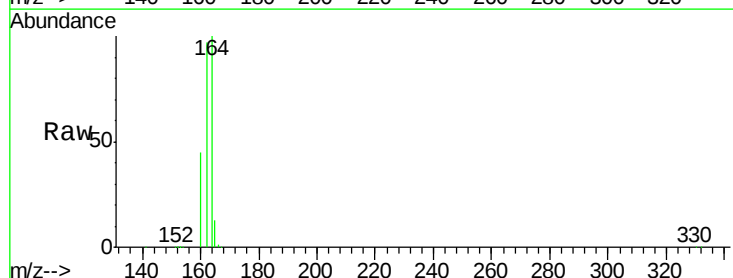
Tgt Ion:164 Resp: 142879

Ion Ratio Lower Upper

164 100

162 96.6 74.7 112.1

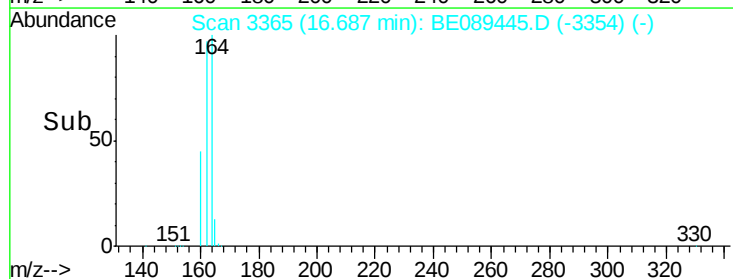
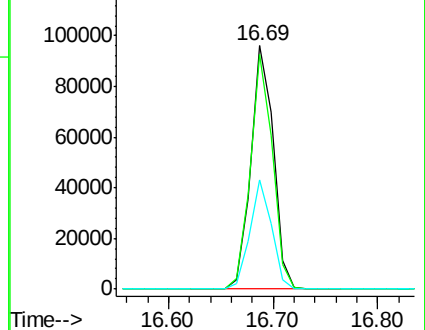
160 44.8 33.4 50.0



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: 5.02 ng

RT: 15.13 min Scan# 3180

Delta R.T. -0.00 min

Lab File: BE089445.D

Acq: 30 Jan 2015 19:22

Instrument :

BNA_E

ClientSampleId :

PB81495BS

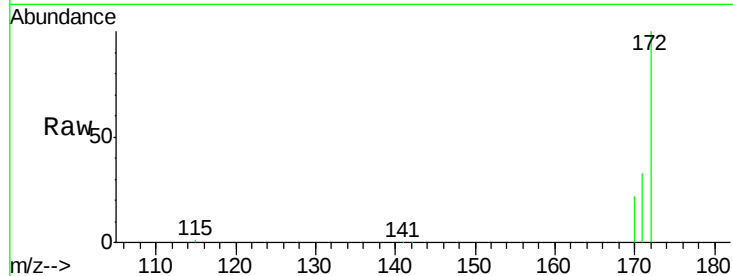
Tgt Ion:172 Resp: 188901

Ion Ratio Lower Upper

172 100

171 33.3 26.2 39.4

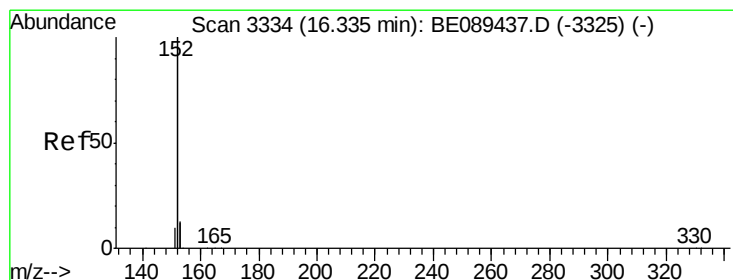
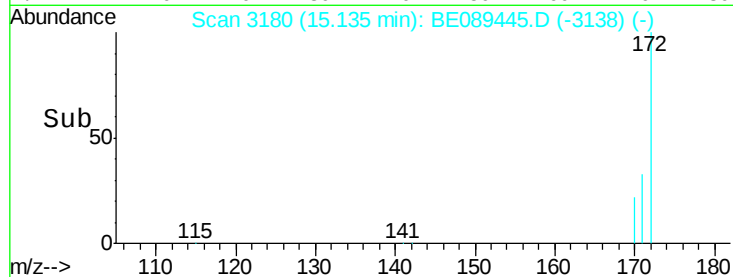
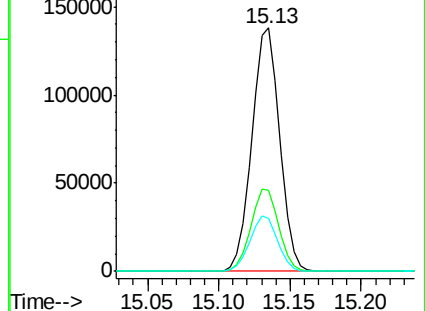
170 21.9 16.5 24.7



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: 3.82 ng

RT: 16.34 min Scan# 3333

Delta R.T. 0.00 min

Lab File: BE089445.D

Acq: 30 Jan 2015 19:22

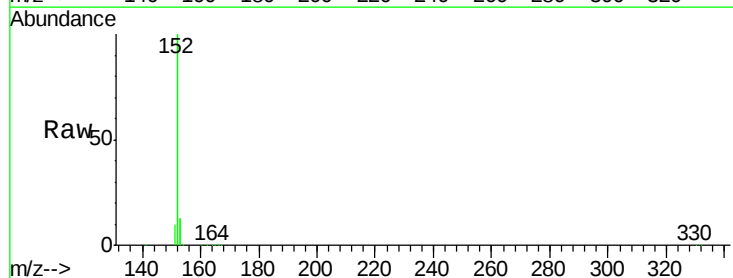
Tgt Ion:152 Resp: 982341

Ion Ratio Lower Upper

152 100

151 4.9 3.9 5.9

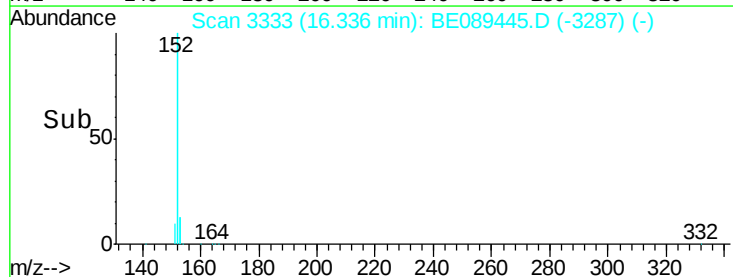
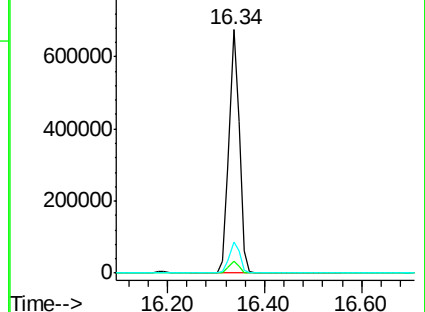
153 12.9 10.3 15.5



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#9

Acenaphthene

Concen: 3.79 ng

RT: 16.76 min Scan# 3372

Delta R.T. 0.00 min

Lab File: BE089445.D

Acq: 30 Jan 2015 19:22

Instrument :

BNA_E

ClientSampleId :

PB81495BS

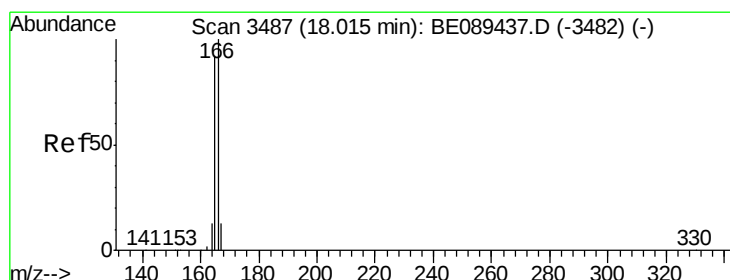
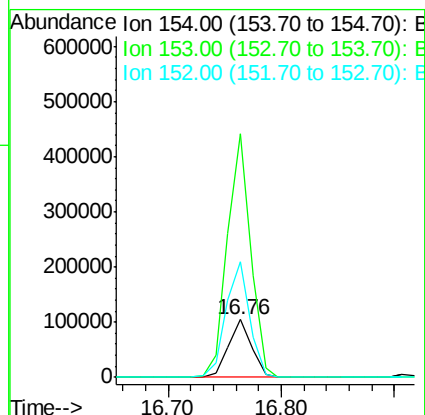
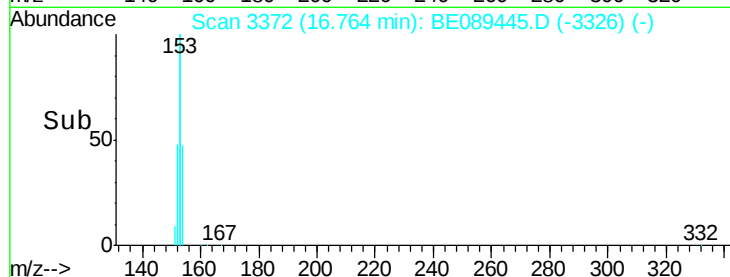
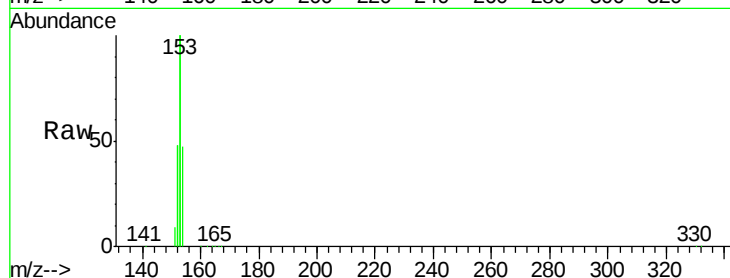
Tgt Ion:154 Resp: 146236

Ion Ratio Lower Upper

154 100

153 426.9 342.3 513.5

152 205.9 165.5 248.3



#10

Fluorene

Concen: 3.97 ng

RT: 18.02 min Scan# 3486

Delta R.T. 0.00 min

Lab File: BE089445.D

Acq: 30 Jan 2015 19:22

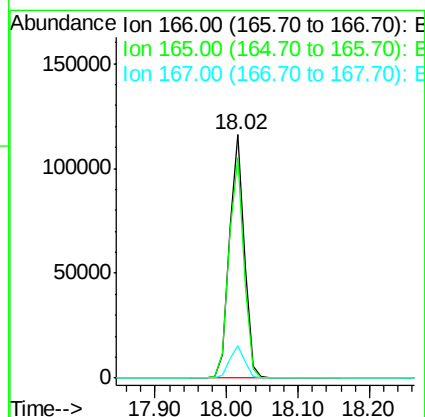
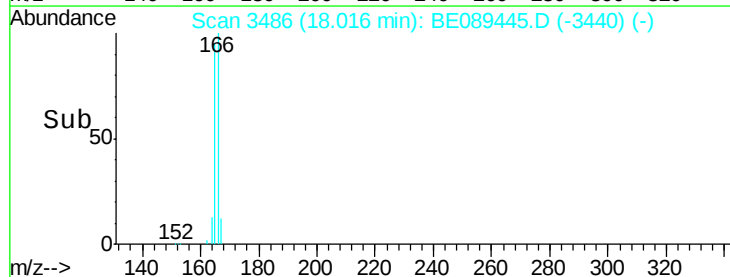
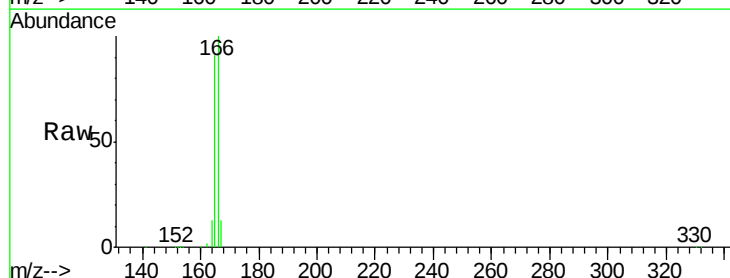
Tgt Ion:166 Resp: 170393

Ion Ratio Lower Upper

166 100

165 91.3 74.4 111.6

167 13.2 10.6 15.8

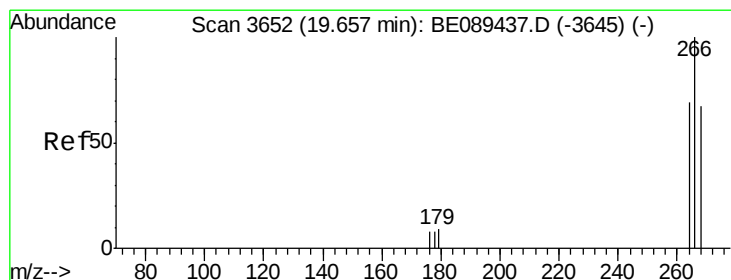
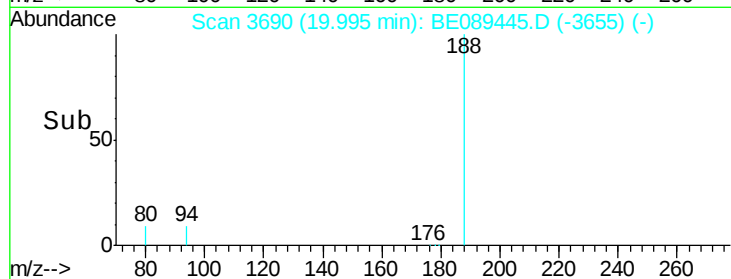
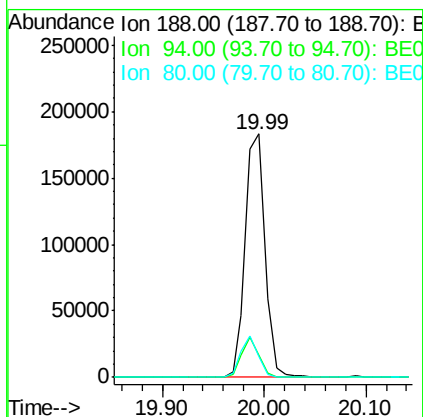
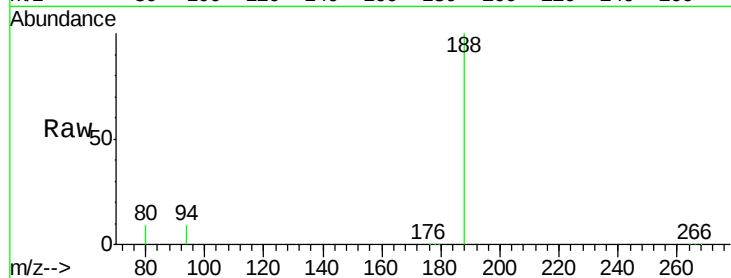




#11
 Phenanthrene-d10
 Concen: 5.00 ng
 RT: 19.99 min Scan# 3690
 Delta R.T. 0.00 min
 Lab File: BE089445.D
 Acq: 30 Jan 2015 19:22

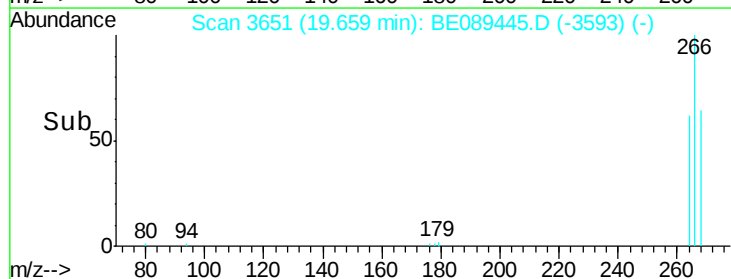
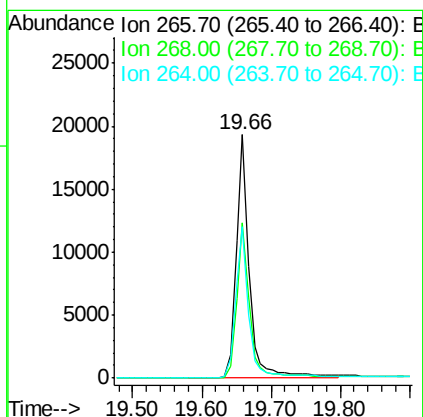
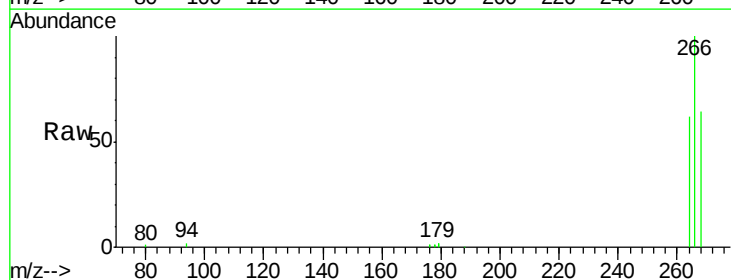
Instrument :
 BNA_E
 ClientSampleId :
 PB81495BS

Tgt Ion:188 Resp: 247249
 Ion Ratio Lower Upper
 188 100
 94 8.9 9.4 14.0#
 80 8.8 9.3 13.9#



#12
 Pentachlorophenol
 Concen: 9.46 ng
 RT: 19.66 min Scan# 3651
 Delta R.T. 0.00 min
 Lab File: BE089445.D
 Acq: 30 Jan 2015 19:22

Tgt Ion:266 Resp: 25016
 Ion Ratio Lower Upper
 266 100
 268 64.0 54.2 81.4
 264 62.5 56.2 84.2





#13

Phenanthrene

Concen: 4.19 ng

RT: 20.03 min Scan# 3694

Delta R.T. 0.00 min

Lab File: BE089445.D

Acq: 30 Jan 2015 19:22

Instrument :

BNA_E

ClientSampleId :

PB81495BS

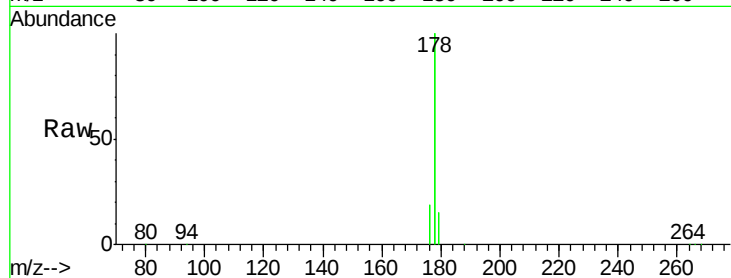
Tgt Ion:178 Resp: 1017150

Ion Ratio Lower Upper

178 100

176 19.0 15.1 22.7

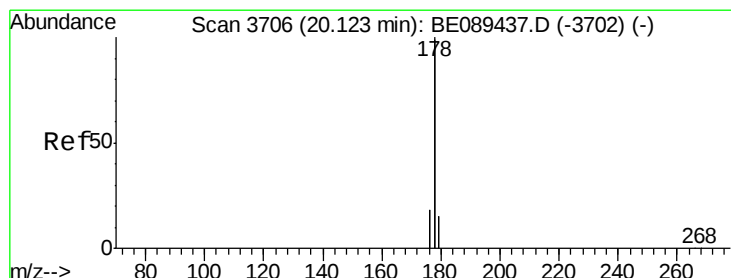
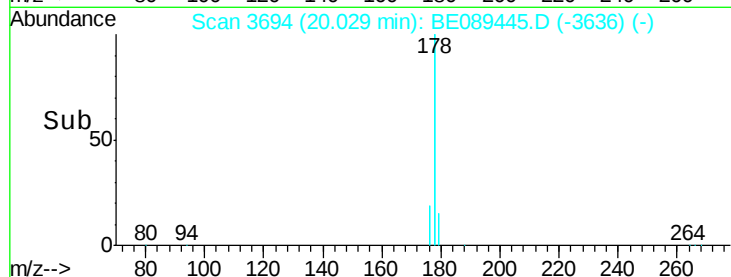
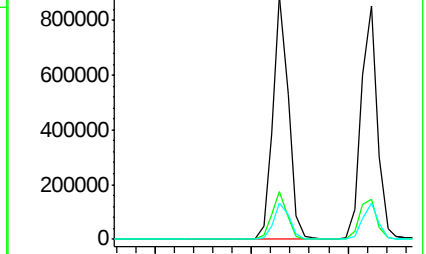
179 15.2 12.3 18.5



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: 4.54 ng

RT: 20.12 min Scan# 3705

Delta R.T. 0.00 min

Lab File: BE089445.D

Acq: 30 Jan 2015 19:22

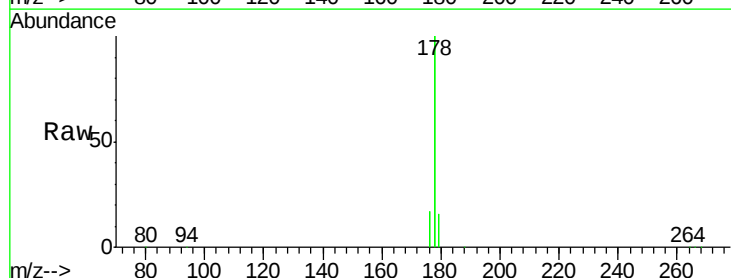
Tgt Ion:178 Resp: 1006892

Ion Ratio Lower Upper

178 100

176 18.1 14.6 22.0

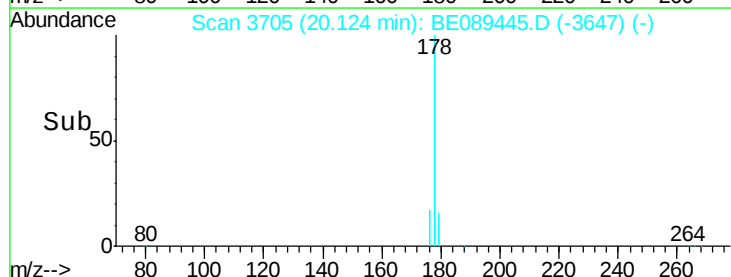
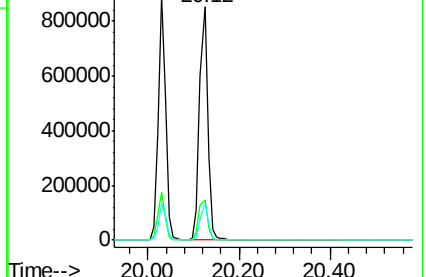
179 14.8 12.2 18.2

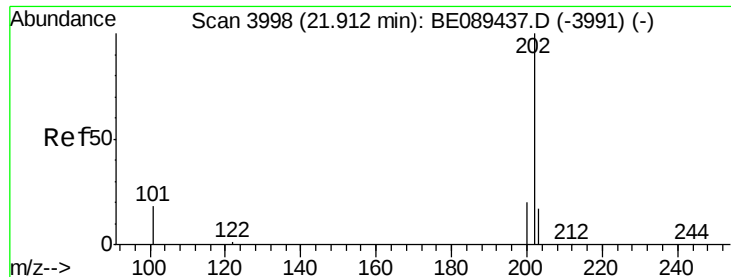


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

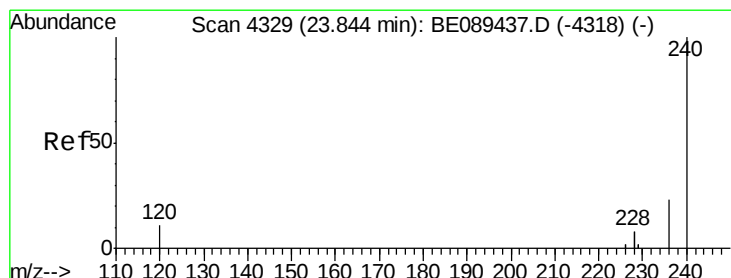
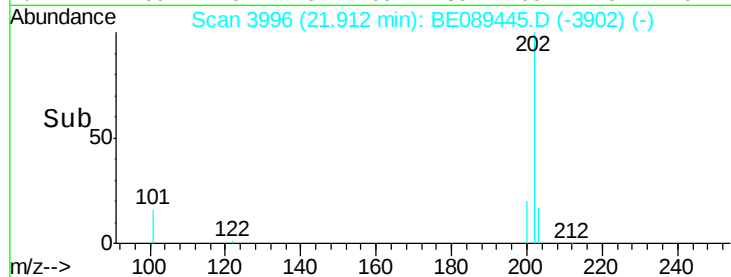
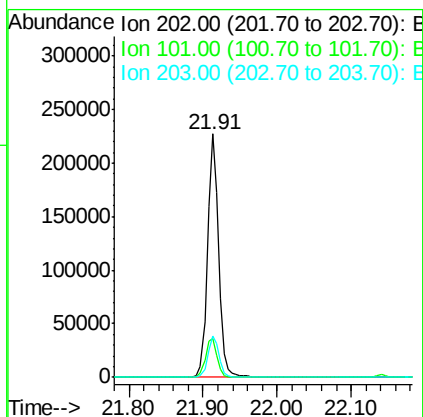
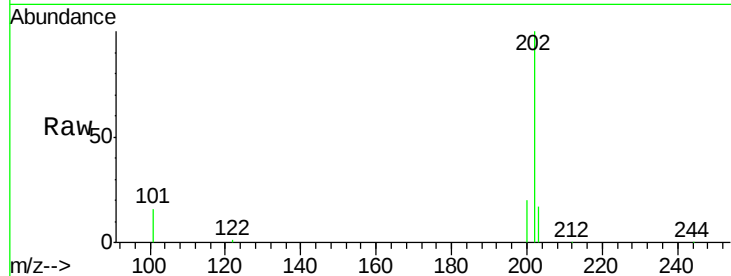




#15
 Fluoranthene
 Concen: 4.44 ng
 RT: 21.91 min Scan# 3996
 Delta R.T. 0.00 min
 Lab File: BE089445.D
 Acq: 30 Jan 2015 19:22

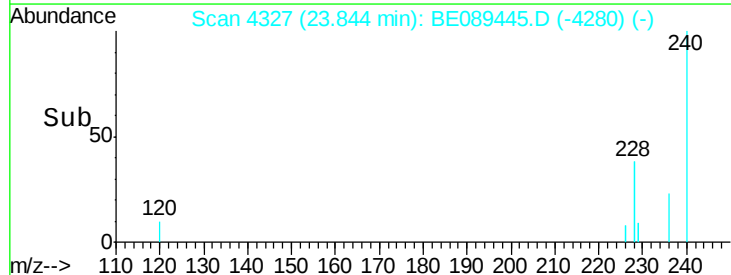
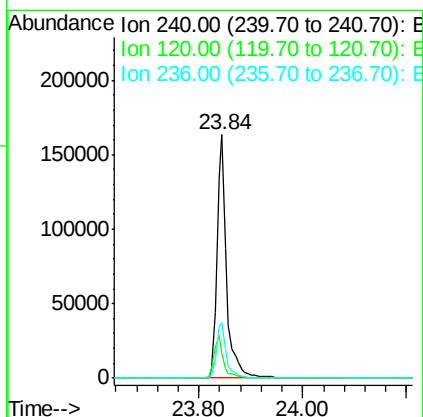
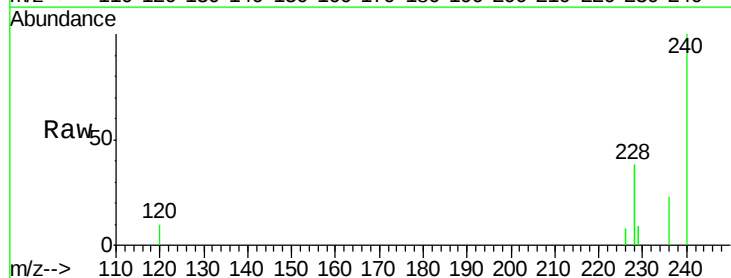
Instrument :
 BNA_E
 ClientSampleId :
 PB81495BS

Tgt Ion: 202 Resp: 235588
 Ion Ratio Lower Upper
 202 100
 101 16.6 13.6 20.4
 203 17.1 13.8 20.6



#16
 Chrysene-d12
 Concen: 5.00 ng
 RT: 23.84 min Scan# 4327
 Delta R.T. 0.00 min
 Lab File: BE089445.D
 Acq: 30 Jan 2015 19:22

Tgt Ion: 240 Resp: 208080
 Ion Ratio Lower Upper
 240 100
 120 10.1 8.6 13.0
 236 23.0 18.7 28.1

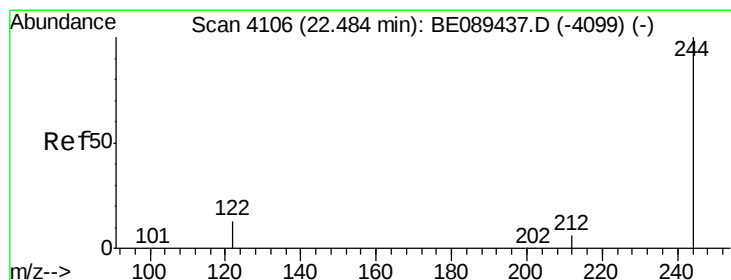
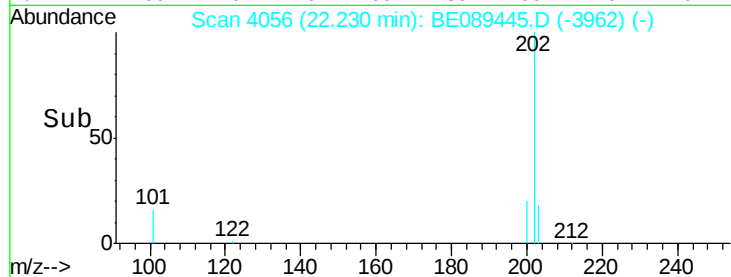
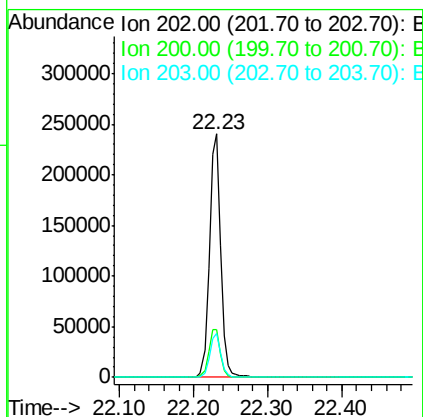
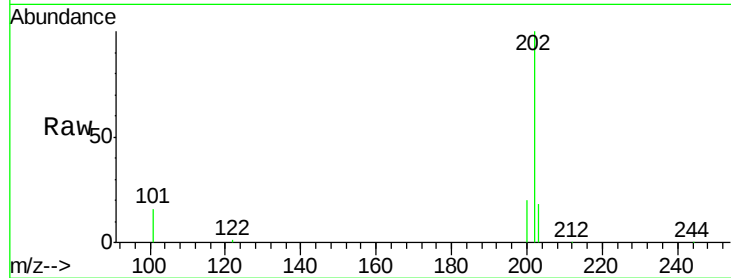




#17
 Pyrene
 Concen: 4.62 ng
 RT: 22.23 min Scan# 4056
 Delta R.T. 0.00 min
 Lab File: BE089445.D
 Acq: 30 Jan 2015 19:22

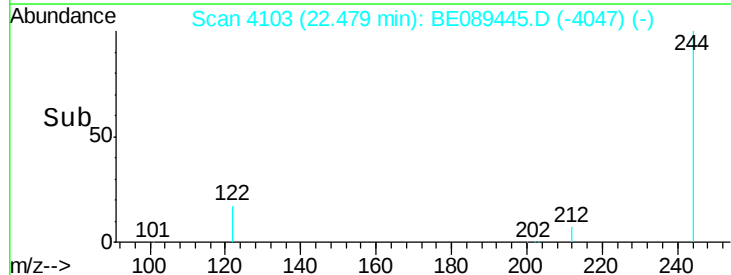
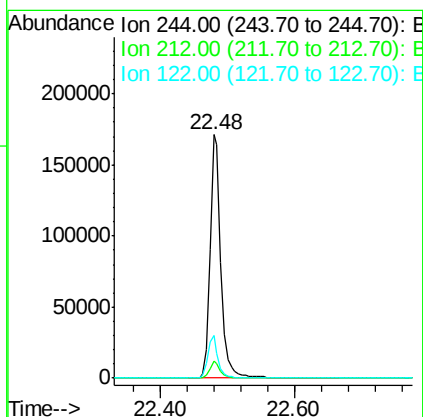
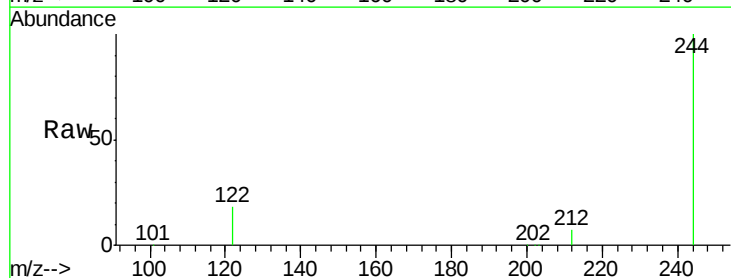
Instrument :
 BNA_E
 ClientSampleId :
 PB81495BS

Tgt Ion: 202 Resp: 254974
 Ion Ratio Lower Upper
 202 100
 200 20.4 16.2 24.4
 203 17.7 13.8 20.8



#18
 Terphenyl-d14
 Concen: 6.17 ng
 RT: 22.48 min Scan# 4103
 Delta R.T. -0.00 min
 Lab File: BE089445.D
 Acq: 30 Jan 2015 19:22

Tgt Ion: 244 Resp: 192177
 Ion Ratio Lower Upper
 244 100
 212 6.9 5.0 7.6
 122 17.5 10.2 15.4#





#19

Benzo(a)anthracene

Concen: 4.26 ng

RT: 23.83 min Scan# 4324

Delta R.T. -0.01 min

Lab File: BE089445.D

Acq: 30 Jan 2015 19:22

Instrument :

BNA_E

ClientSampleId :

PB81495BS

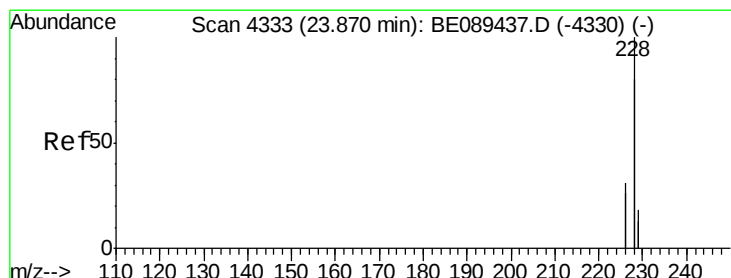
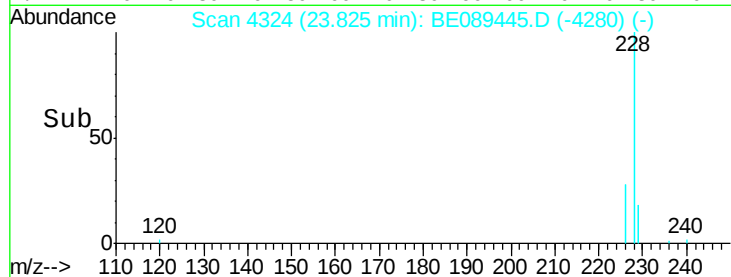
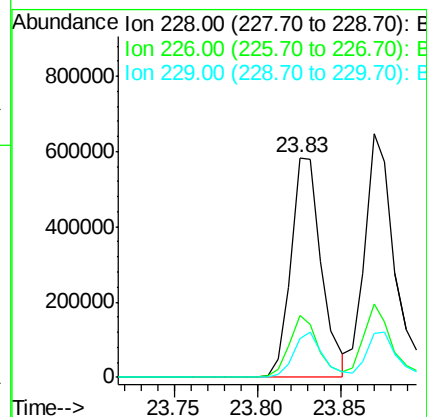
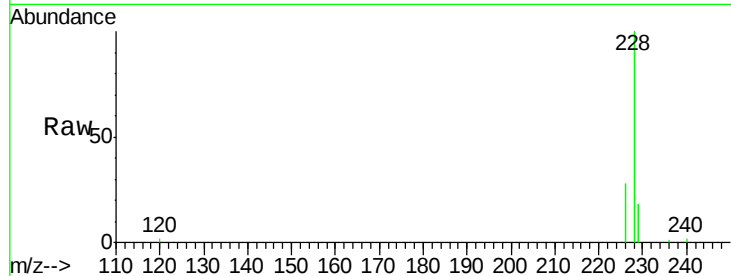
Tgt Ion:228 Resp: 745876

Ion Ratio Lower Upper

228 100

226 28.4 20.0 30.0

229 17.6 16.0 24.0



#20

Chrysene

Concen: 4.42 ng

RT: 23.87 min Scan# 4331

Delta R.T. 0.00 min

Lab File: BE089445.D

Acq: 30 Jan 2015 19:22

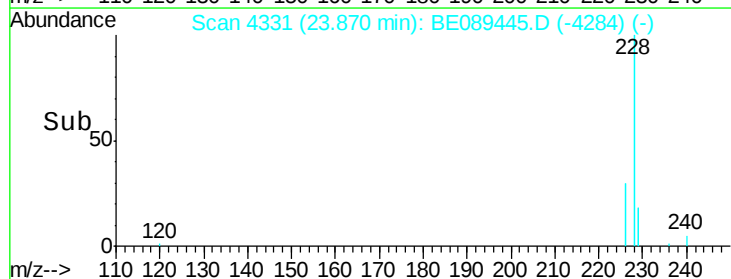
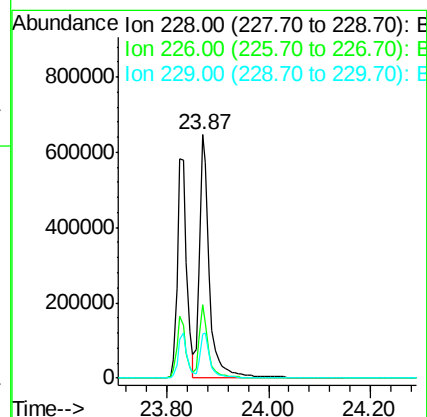
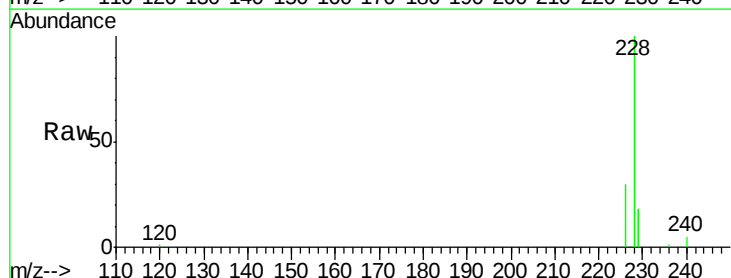
Tgt Ion:228 Resp: 873581

Ion Ratio Lower Upper

228 100

226 30.2 24.5 36.7

229 18.0 14.1 21.1





#21

Indeno(1,2,3-cd)pyrene

Concen: 3.30 ng

RT: 27.06 min Scan# 4948

Delta R.T. 0.00 min

Lab File: BE089445.D

Acq: 30 Jan 2015 19:22

Instrument :

BNA_E

ClientSampleId :

PB81495BS

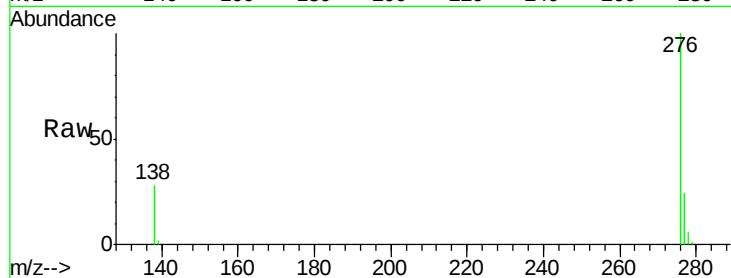
Tgt Ion:276 Resp: 569200

Ion Ratio Lower Upper

276 100

138 31.8 25.4 38.0

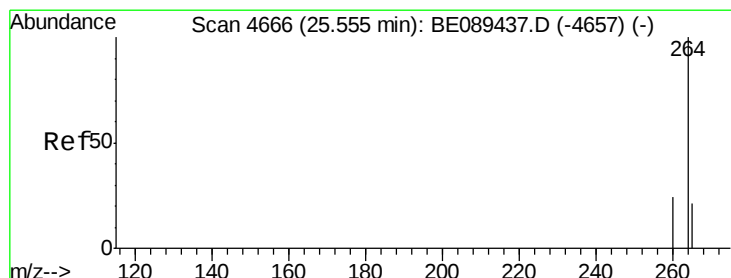
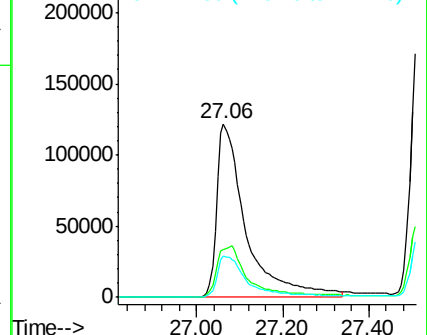
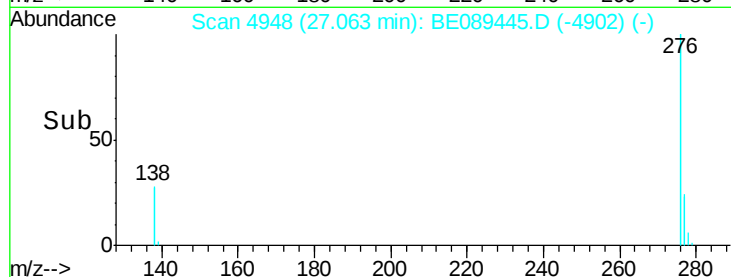
277 24.7 19.8 29.6



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#22

Perylene-d12

Concen: 5.00 ng

RT: 25.55 min Scan# 4664

Delta R.T. 0.00 min

Lab File: BE089445.D

Acq: 30 Jan 2015 19:22

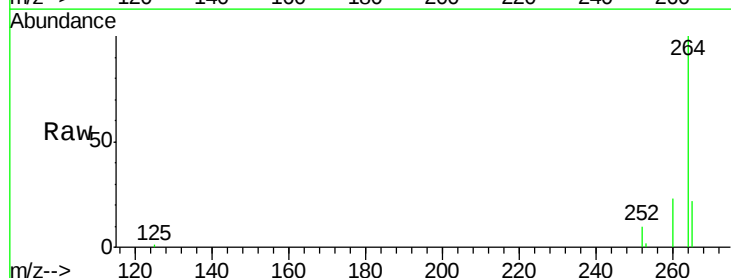
Tgt Ion:264 Resp: 157668

Ion Ratio Lower Upper

264 100

260 23.4 19.4 29.0

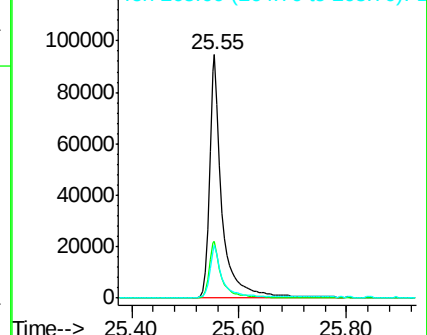
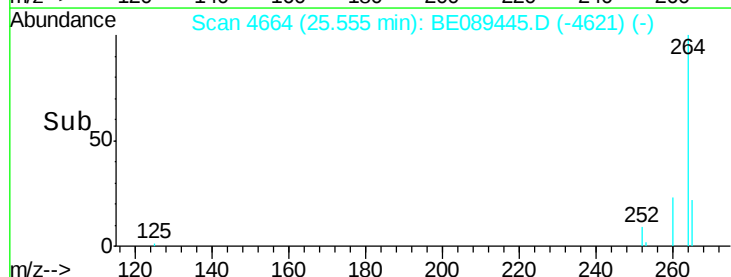
265 21.9 17.0 25.6



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: 4.07 ng

RT: 25.10 min Scan# 4564

Delta R.T. 0.00 min

Lab File: BE089445.D

Acq: 30 Jan 2015 19:22

Instrument :

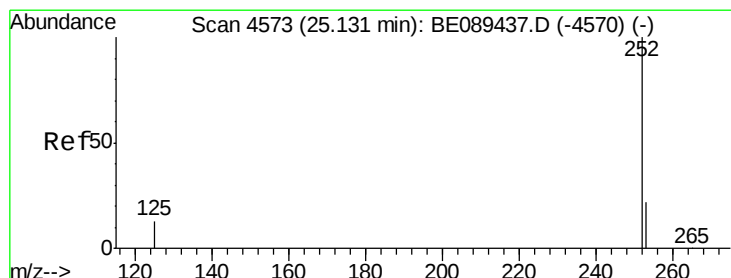
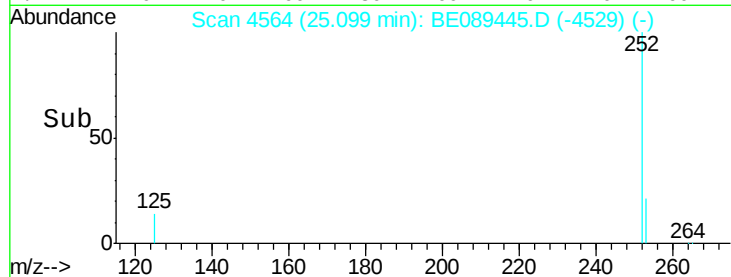
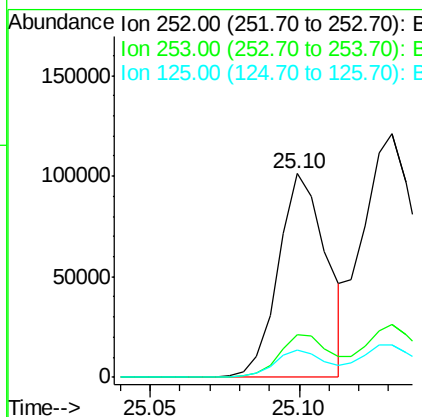
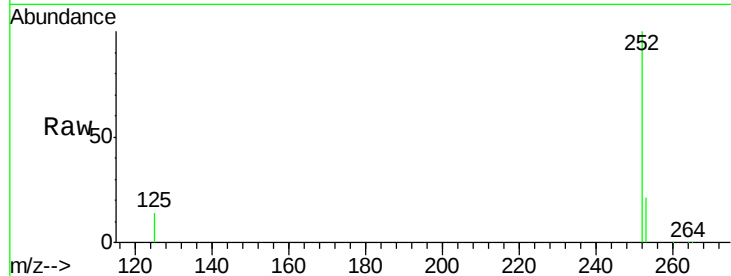
BNA_E

ClientSampleId :

PB81495BS

Tgt Ion:252 Resp: 113342

Ion	Ratio	Lower	Upper
252	100		
253	21.1	17.0	25.6
125	13.7	11.4	17.0



#24

Benzo(k)fluoranthene

Concen: 5.31 ng

RT: 25.13 min Scan# 4571

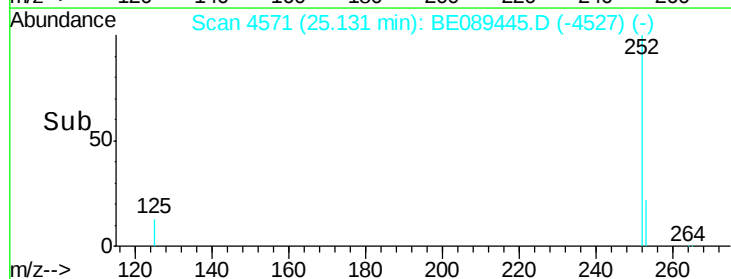
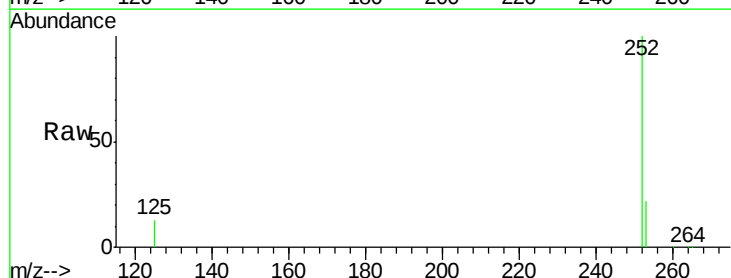
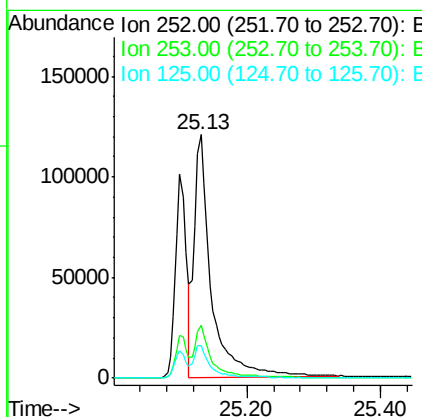
Delta R.T. 0.00 min

Lab File: BE089445.D

Acq: 30 Jan 2015 19:22

Tgt Ion:252 Resp: 213401

Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.4	26.2
125	13.1	10.9	16.3





#25

Benzo(a)pyrene

Concen: 4.40 ng

RT: 25.49 min Scan# 4649

Delta R.T. 0.00 min

Lab File: BE089445.D

Acq: 30 Jan 2015 19:22

Instrument :

BNA_E

ClientSampleId :

PB81495BS

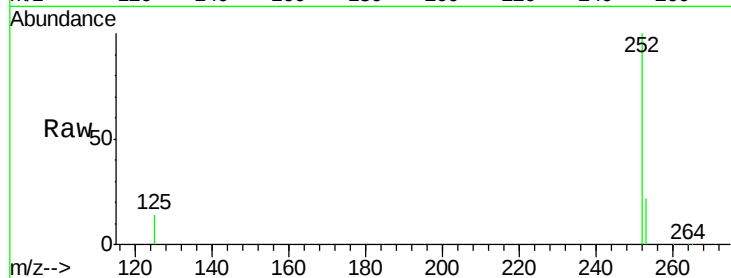
Tgt Ion:252 Resp: 124958

Ion Ratio Lower Upper

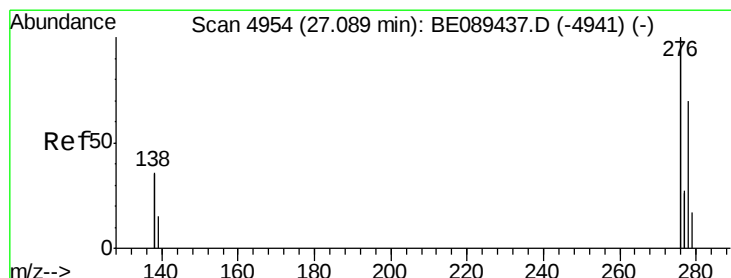
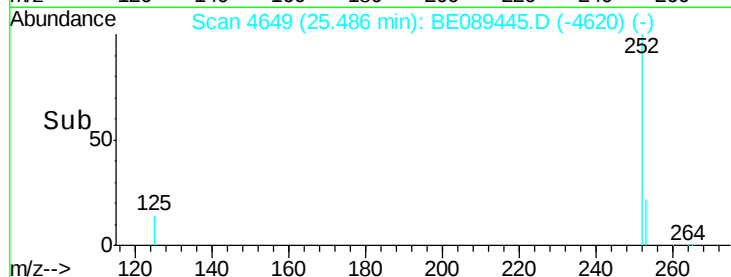
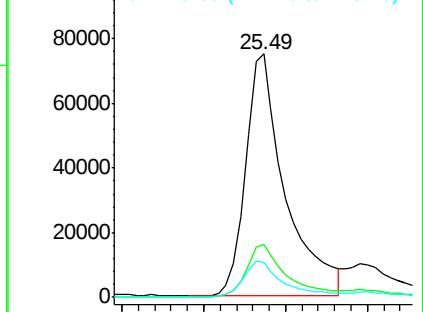
252 100

253 21.8 17.3 25.9

125 14.1 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: 3.76 ng

RT: 27.09 min Scan# 4952

Delta R.T. 0.00 min

Lab File: BE089445.D

Acq: 30 Jan 2015 19:22

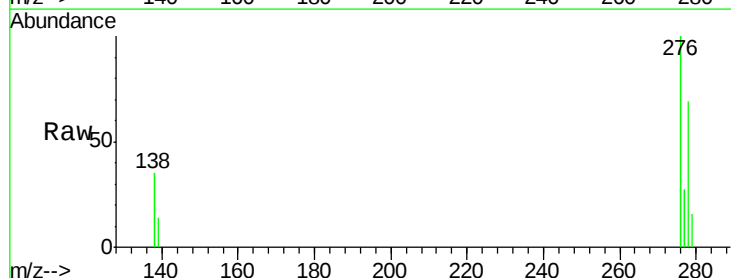
Tgt Ion:278 Resp: 120420

Ion Ratio Lower Upper

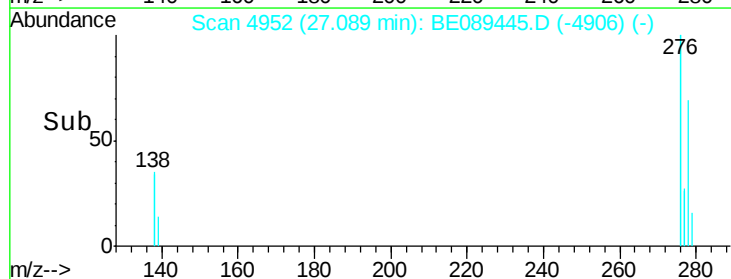
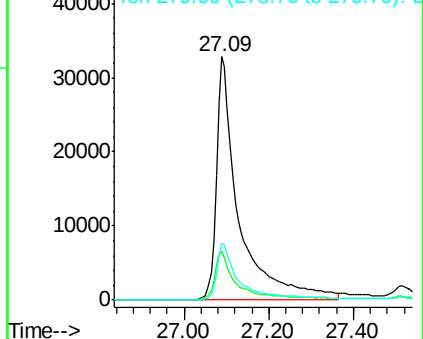
278 100

139 20.1 17.0 25.4

279 23.6 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: 4.23 ng

RT: 27.51 min Scan# 5017

Delta R.T. 0.01 min

Lab File: BE089445.D

Acq: 30 Jan 2015 19:22

Instrument :

BNA_E

ClientSampleId :

PB81495BS

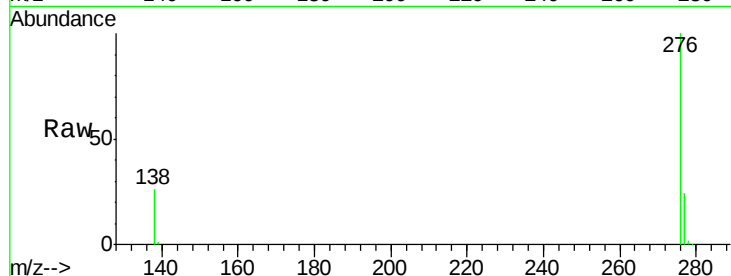
Tgt Ion: 276 Resp: 533570

Ion Ratio Lower Upper

276 100

277 23.6 18.4 27.6

138 26.4 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

