

Data Path : Z:\HPCHEM1\BNA E\DATA\BE020515\
 Data File : BE089508.D
 Acq On : 5 Feb 2015 18:16
 Operator : TP/IZ
 Sample : SSTDICV001
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 ICVBE020515

Quant Time: Feb 06 12:51:13 2015
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\SIMPAH-BE020515.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Feb 06 12:30:39 2015
 Response via : Initial Calibration

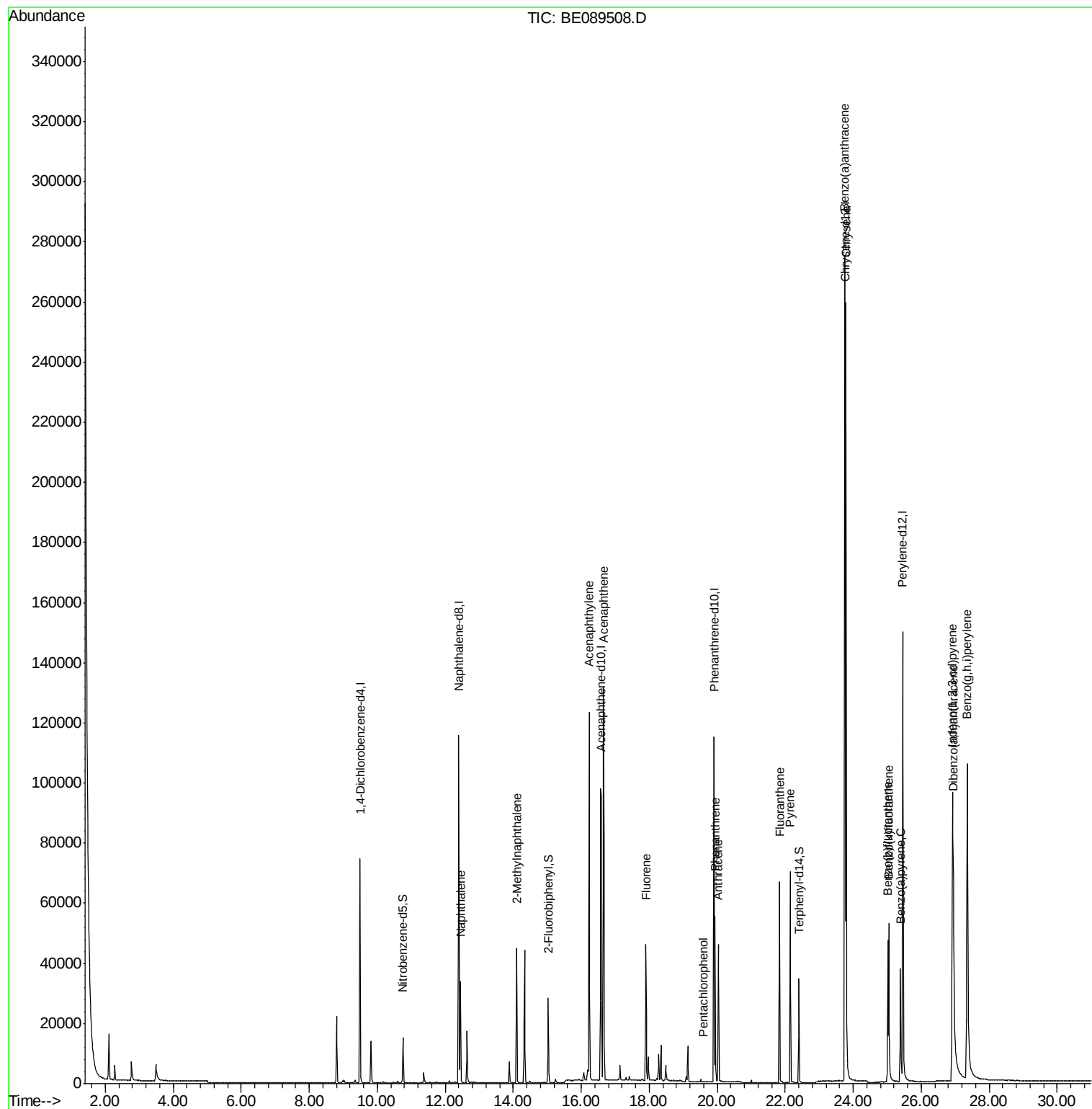
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.49	152	30185	5.00	ng	0.00
2) Naphthalene-d8	12.40	136	129266	5.00	ng	0.00
6) Acenaphthene-d10	16.59	164	63342	5.00	ng	0.00
11) Phenanthrene-d10	19.91	188	122482	5.00	ng	0.00
16) Chrysene-d12	23.76	240	136802	5.00	ng	0.00
22) Perylene-d12	25.46	264	136624	5.00	ng	0.00
System Monitoring Compounds						
3) Nitrobenzene-d5	10.76	82	10766	1.09	ng	0.00
7) 2-Fluorobiphenyl	15.03	172	24297	1.22	ng	0.00
18) Terphenyl-d14	22.41	244	30027	1.26	ng	0.00
Target Compounds						Ovalue
4) Naphthalene	12.45	128	36800	1.13	ng	99
5) 2-Methylnaphthalene	14.10	142	26323	1.23	ng	96
8) Acenaphthylene	16.24	152	168225	1.24	ng	100
9) Acenaphthene	16.65	154	25203	1.21	ng	99
10) Fluorene	17.91	166	29140	1.12	ng	99
12) Pentachlorophenol	19.58	266	74	0.06	ng	# 80
13) Phenanthrene	19.94	178	46257	1.24	ng	100
14) Anthracene	20.03	178	42407	1.12	ng	100
15) Fluoranthene	21.83	202	45831	1.13	ng	99
17) Pyrene	22.15	202	48907	1.25	ng	99
19) Benzo(a)anthracene	23.75	228	187758	1.13	ng	99
20) Chrysene	23.79	228	193282	1.16	ng	99
21) Indeno(1,2,3-cd)pyrene	26.92	276	217119	1.14	ng	97
23) Benzo(b)fluoranthene	25.02	252	41766	1.10	ng	98
24) Benzo(k)fluoranthene	25.05	252	55958	1.28	ng	98
25) Benzo(a)pyrene	25.39	252	40677	1.09	ng	99
26) Dibenzo(a,h)anthracene	26.95	278	46208	1.14	ng	100
27) Benzo(a,h,i)perylene	27.36	276	182417	1.16	ng	96

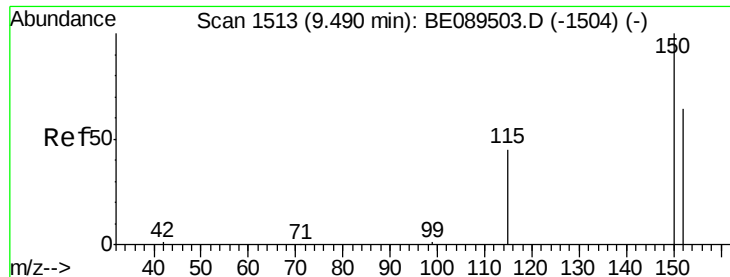
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA E\DATA\BE020515\
Data File : BE089508.D
Acq On : 5 Feb 2015 18:16
Operator : TP/IZ
Sample : SSTDICV001
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
ICVBE020515

Quant Time: Feb 06 12:51:13 2015
Quant Method : Z:\HPCHEM1\BNA E\METHODS\SIMPAH-BE020515.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 06 12:30:39 2015
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 9.49 min Scan# 1513

Delta R.T. -0.00 min

Lab File: BE089508.D

Acq: 5 Feb 2015 18:16

Instrument :

BNA_E

ClientSampleId :

ICVBE020515

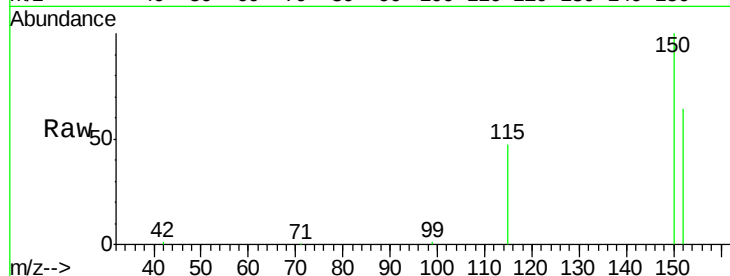
Tot Ion:152 Resp: 30185

Ion Ratio Lower Upper

152 100

150 157.2 125.0 187.6

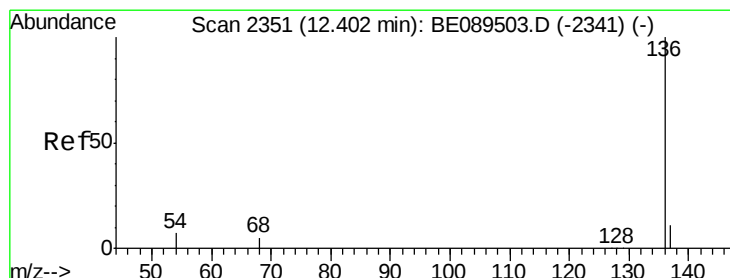
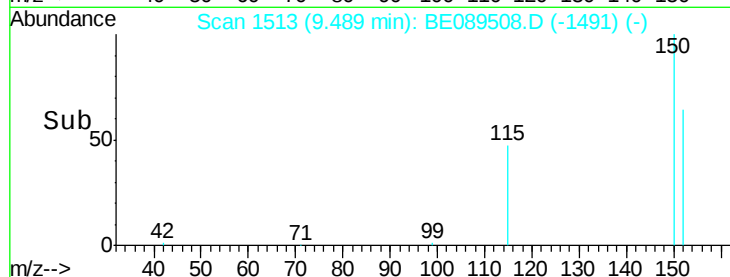
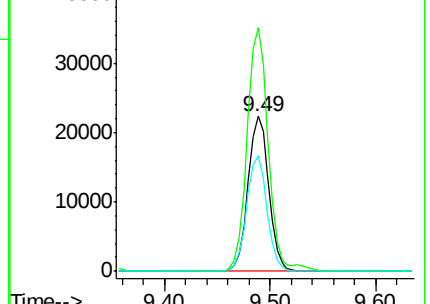
115 74.3 56.6 85.0



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: 12.40 min Scan# 2351

Delta R.T. -0.00 min

Lab File: BE089508.D

Acq: 5 Feb 2015 18:16

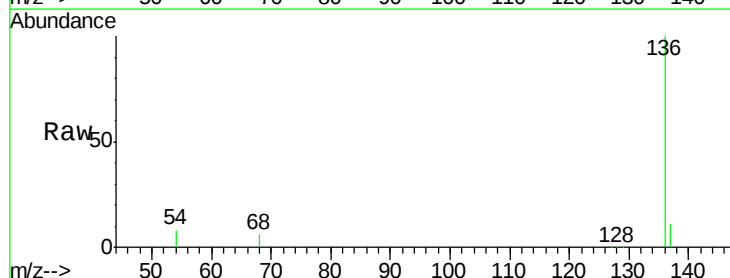
Tgt Ion:136 Resp: 129266

Ion Ratio Lower Upper

136 100

137 10.9 8.6 12.8

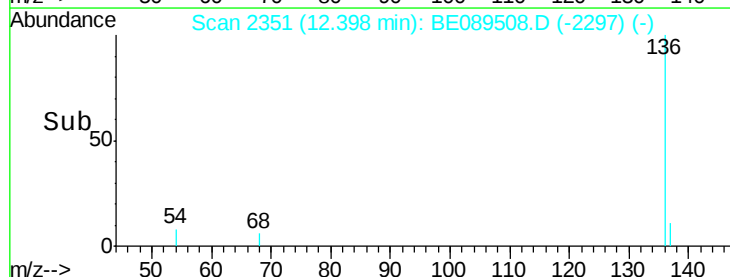
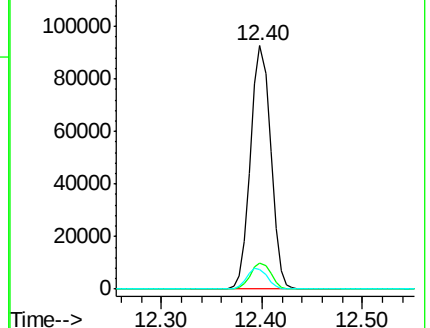
54 8.1 6.0 9.0

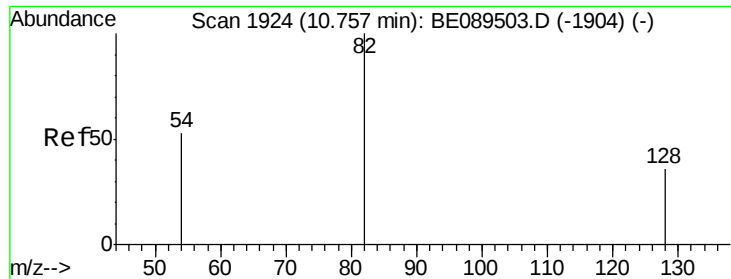


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0





#3

Nitrobenzene-d5

Concen: 1.09 ng

RT: 10.76 min Scan# 1924

Delta R.T. -0.00 min

Lab File: BE089508.D

Acq: 5 Feb 2015 18:16

Instrument :

BNA_E

ClientSampleId :

ICVBE020515

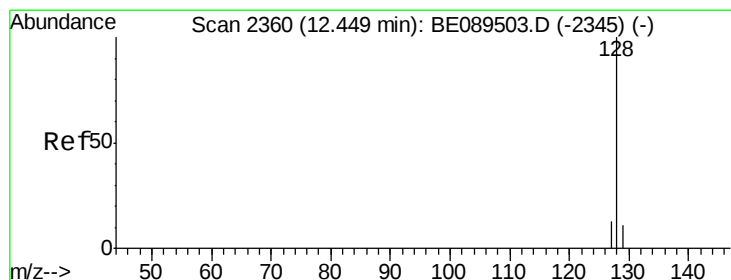
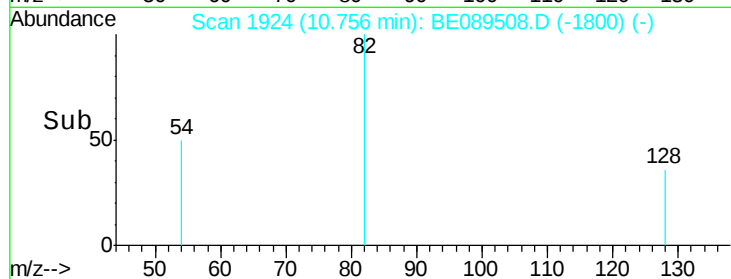
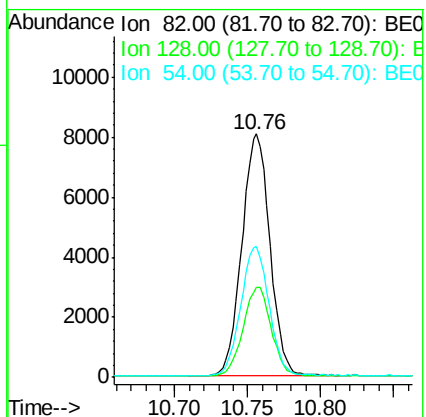
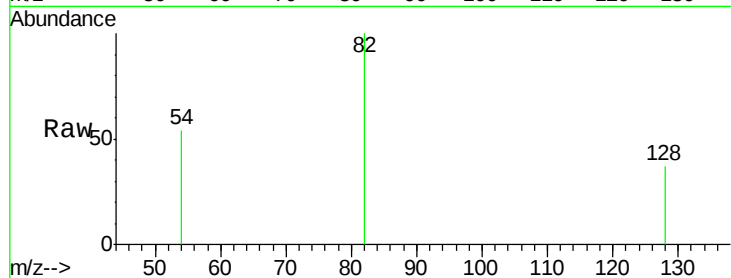
Tot Ion: 82 Resp: 10766

Ion Ratio Lower Upper

82 100

128 36.8 29.3 43.9

54 53.6 42.6 64.0



#4

Naphthalene

Concen: 1.13 ng

RT: 12.45 min Scan# 2360

Delta R.T. -0.00 min

Lab File: BE089508.D

Acq: 5 Feb 2015 18:16

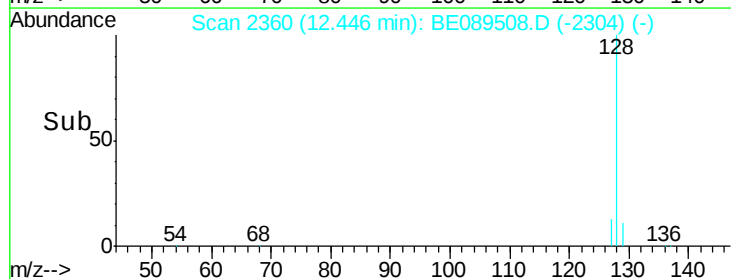
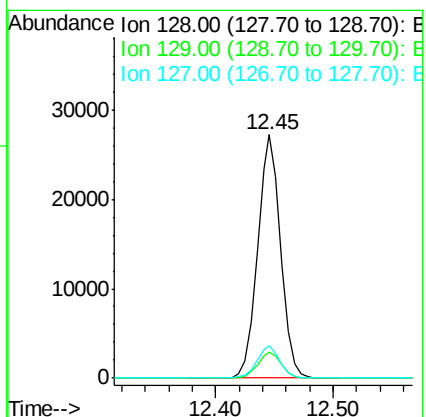
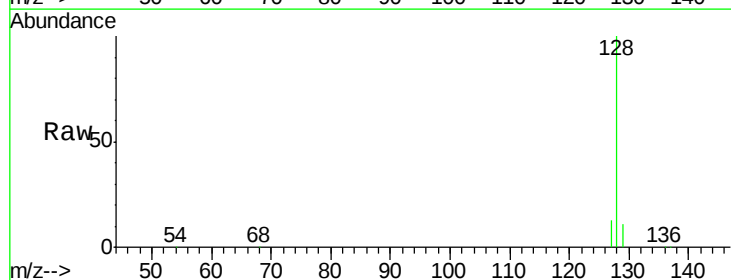
Tgt Ion: 128 Resp: 36800

Ion Ratio Lower Upper

128 100

129 10.7 8.8 13.2

127 13.4 10.3 15.5





#5

2-Methylnaphthalene

Concen: 1.23 ng

RT: 14.10 min Scan# 2694

Delta R.T. -0.00 min

Lab File: BE089508.D

Acq: 5 Feb 2015 18:16

Instrument :

BNA_E

ClientSampleId :

ICVBE020515

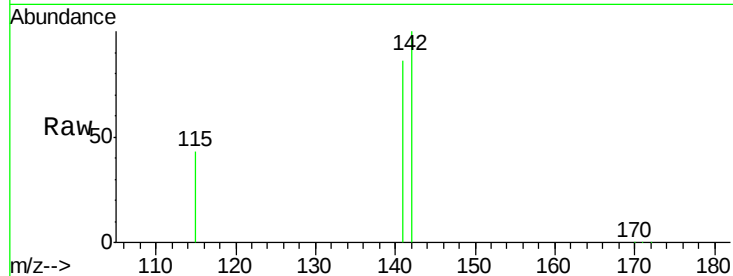
Tot Ion:142 Resp: 26323

Ion Ratio Lower Upper

142 100

141 85.6 66.3 99.5

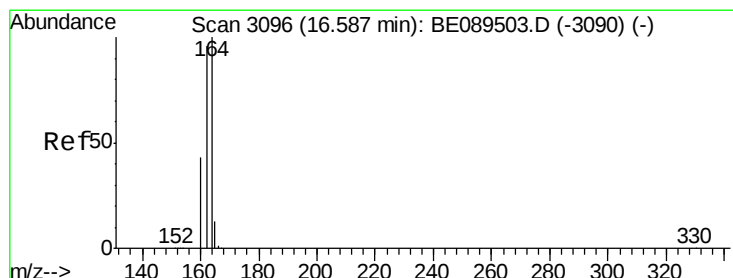
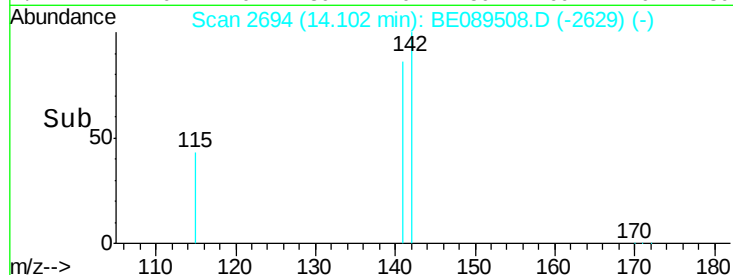
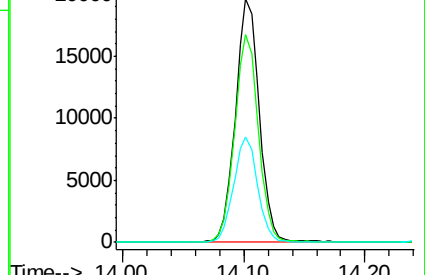
115 43.1 31.1 46.7



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: 16.59 min Scan# 3097

Delta R.T. 0.00 min

Lab File: BE089508.D

Acq: 5 Feb 2015 18:16

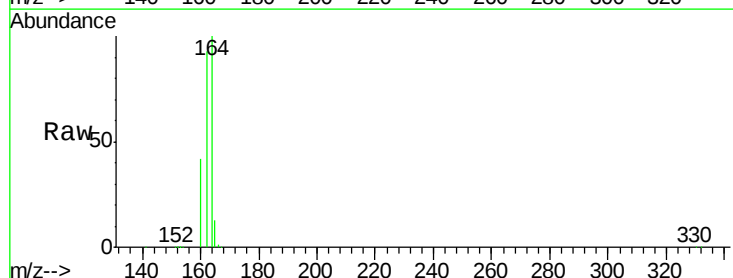
Tgt Ion:164 Resp: 63342

Ion Ratio Lower Upper

164 100

162 93.1 76.6 115.0

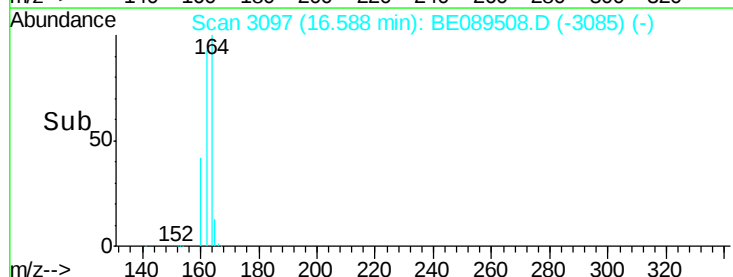
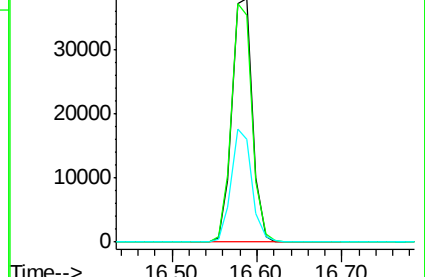
160 42.2 34.6 52.0



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: 1.22 ng

RT: 15.03 min Scan# 2898

Delta R.T. -0.00 min

Lab File: BE089508.D

Acq: 5 Feb 2015 18:16

Instrument :

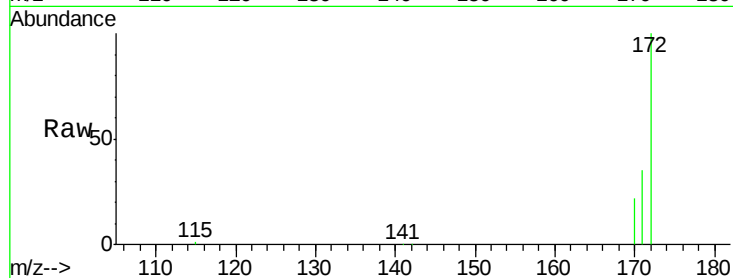
BNA_E

ClientSampleId :

ICVBE020515

Tot Ion:172 Resp: 24297

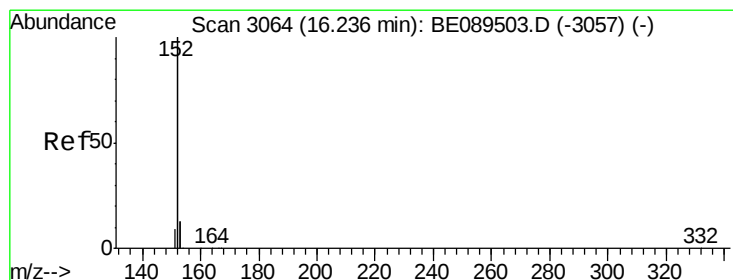
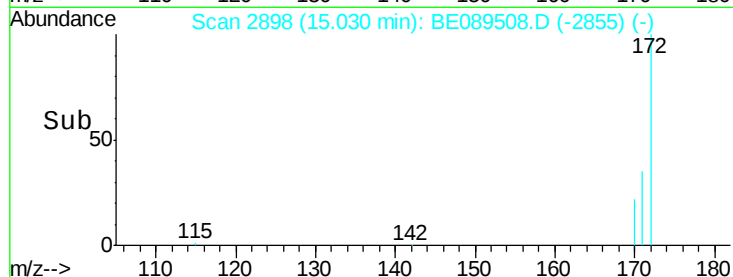
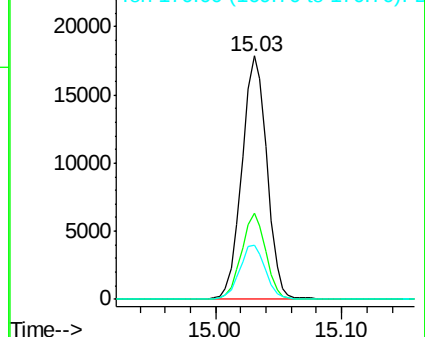
Ion	Ratio	Lower	Upper
172	100		
171	35.2	27.4	41.0
170	22.4	18.4	27.6



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: 1.24 ng

RT: 16.24 min Scan# 3065

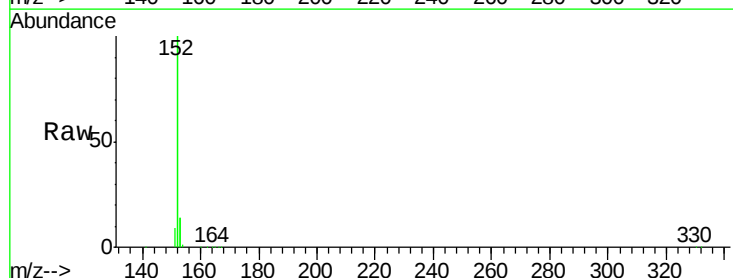
Delta R.T. 0.00 min

Lab File: BE089508.D

Acq: 5 Feb 2015 18:16

Tgt Ion:152 Resp: 168225

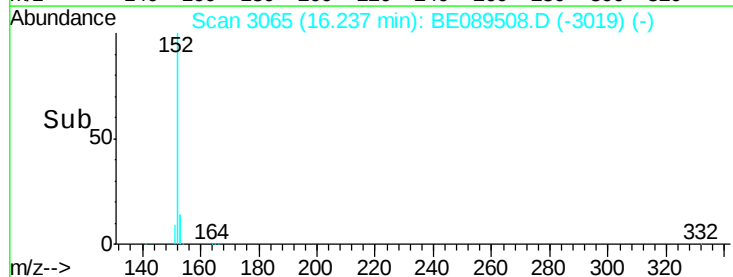
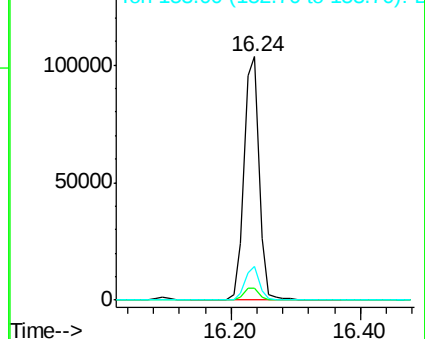
Ion	Ratio	Lower	Upper
152	100		
151	4.9	3.9	5.9
153	13.1	10.4	15.6

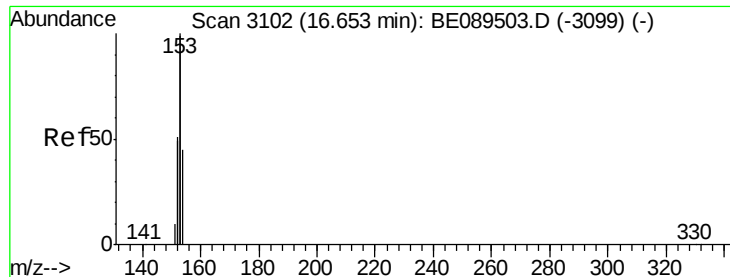


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#9

Acenaphthene

Concen: 1.21 ng

RT: 16.65 min Scan# 3103

Delta R.T. 0.00 min

Lab File: BE089508.D

Acq: 5 Feb 2015 18:16

Instrument :

BNA_E

ClientSampleId :

ICVBE020515

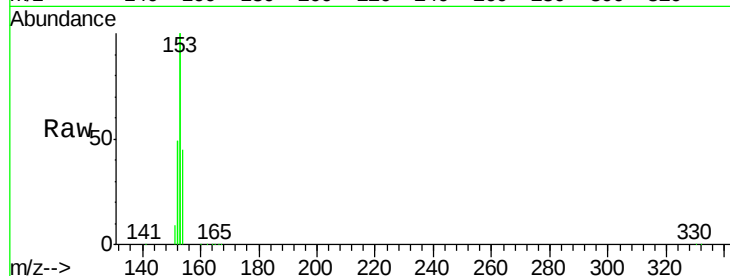
Tot Ion:154 Resp: 25203

Ion Ratio Lower Upper

154 100

153 430.8 341.5 512.3

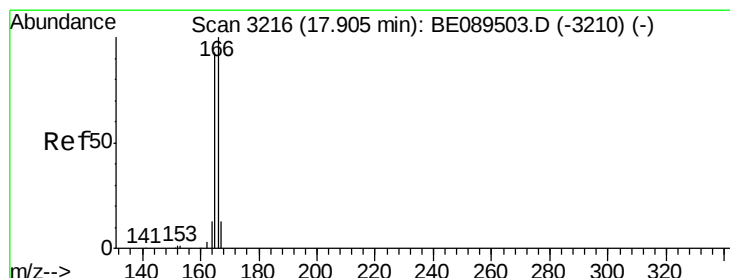
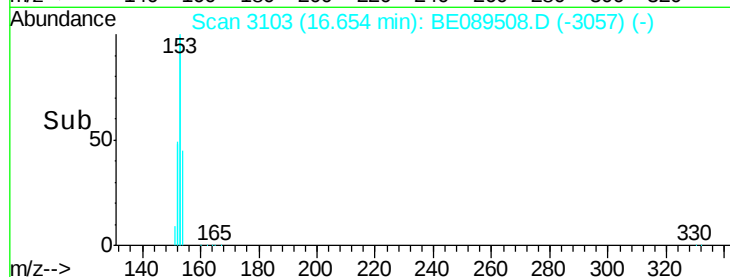
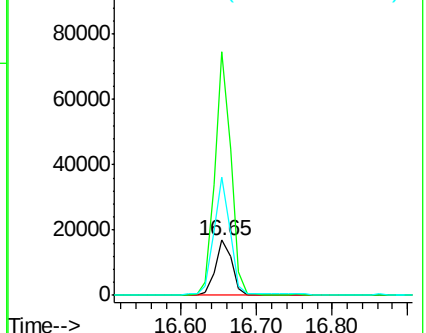
152 209.9 166.6 249.8



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: 1.12 ng

RT: 17.91 min Scan# 3217

Delta R.T. 0.00 min

Lab File: BE089508.D

Acq: 5 Feb 2015 18:16

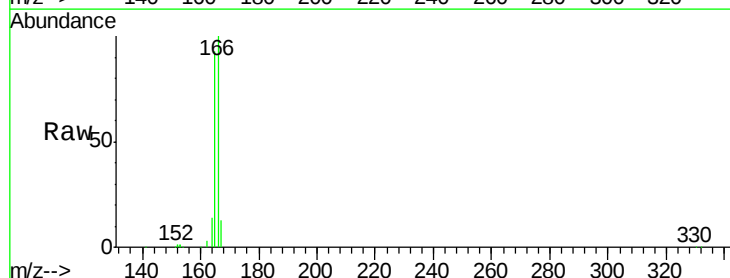
Tgt Ion:166 Resp: 29140

Ion Ratio Lower Upper

166 100

165 92.7 73.6 110.4

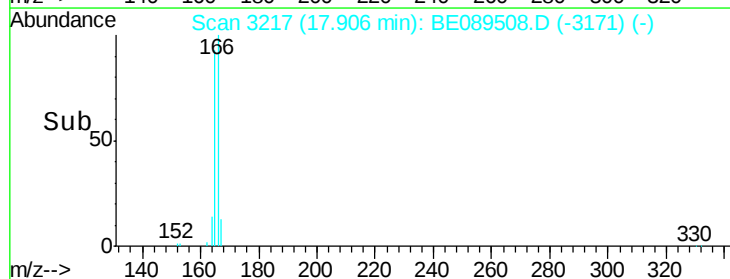
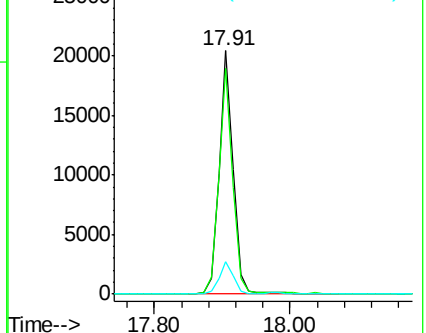
167 13.3 10.6 15.8

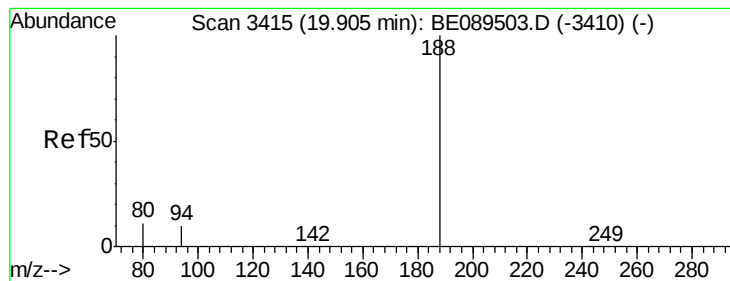


Abundance Ion 166.00 (165.70 to 166.70): E

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: 19.91 min Scan# 3416

Delta R.T. 0.00 min

Lab File: BE089508.D

Acq: 5 Feb 2015 18:16

Instrument :

BNA_E

ClientSampleId :

ICVBE020515

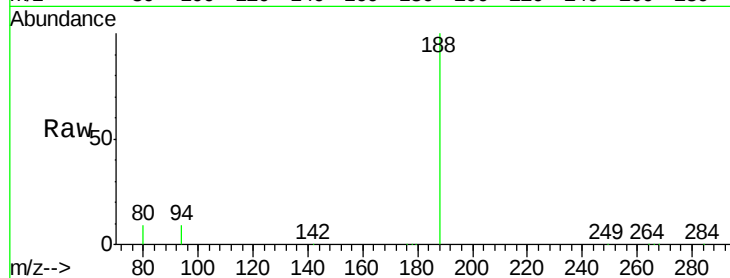
Tot Ion:188 Resp: 122482

Ion Ratio Lower Upper

188 100

94 8.7 8.2 12.4

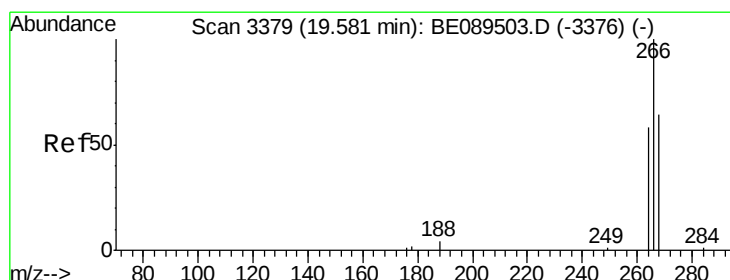
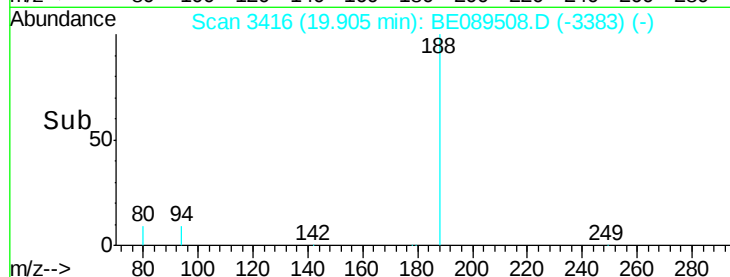
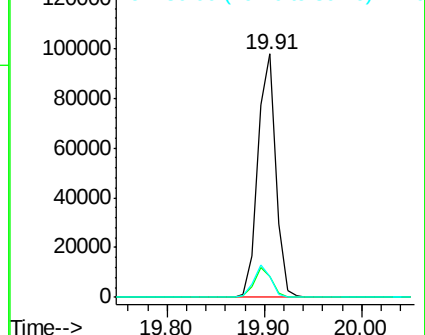
80 8.6 8.7 13.1#



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0



#12

Pentachlorophenol

Concen: 0.06 ng

RT: 19.58 min Scan# 3380

Delta R.T. 0.00 min

Lab File: BE089508.D

Acq: 5 Feb 2015 18:16

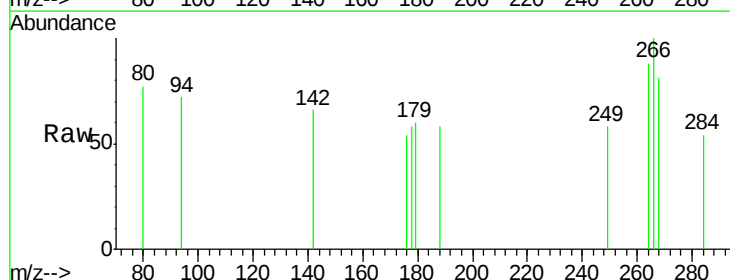
Tgt Ion:266 Resp: 74

Ion Ratio Lower Upper

266 100

268 81.1 56.7 85.1

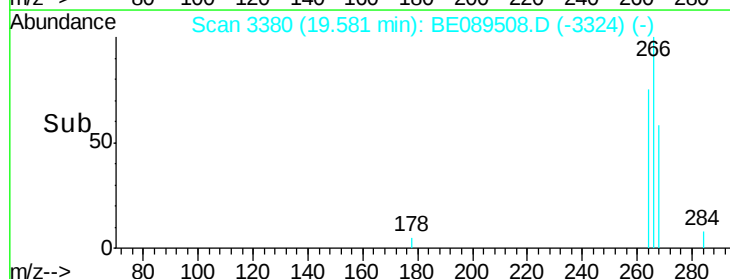
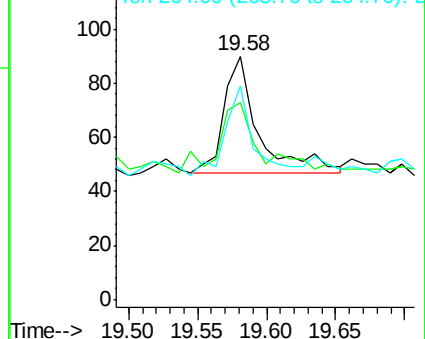
264 87.8 51.9 77.9#

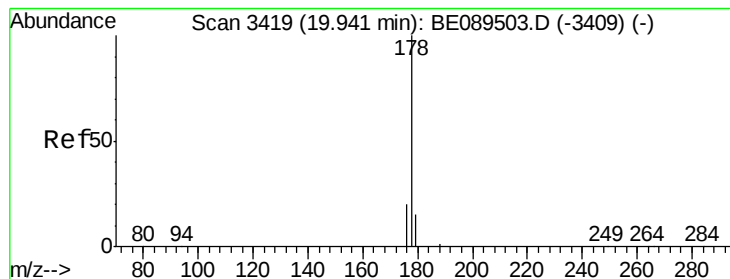


Abundance Ion 265.70 (265.40 to 266.40): E

Ion 268.00 (267.70 to 268.70): E

Ion 264.00 (263.70 to 264.70): E





#13

Phenanthrene

Concen: 1.24 ng

RT: 19.94 min Scan# 3420

Delta R.T. 0.00 min

Lab File: BE089508.D

Acq: 5 Feb 2015 18:16

Instrument :

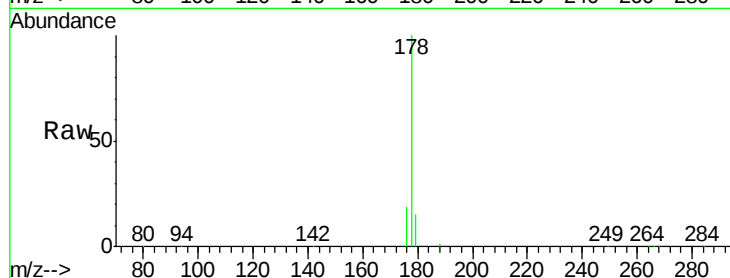
BNA_E

ClientSampleId :

ICVBE020515

Tot Ion:178 Resp: 46257

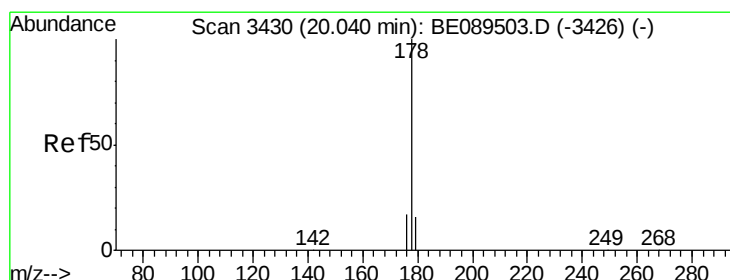
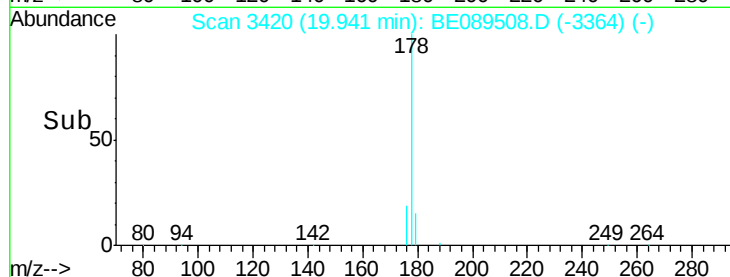
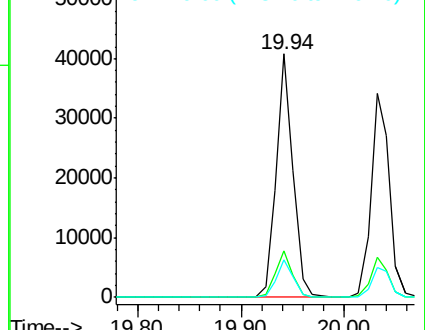
Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.4	23.0
179	15.4	12.4	18.6



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: 1.12 ng

RT: 20.03 min Scan# 3430

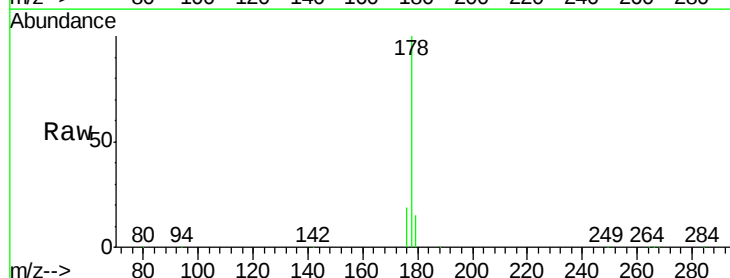
Delta R.T. -0.01 min

Lab File: BE089508.D

Acq: 5 Feb 2015 18:16

Tgt Ion:178 Resp: 42407

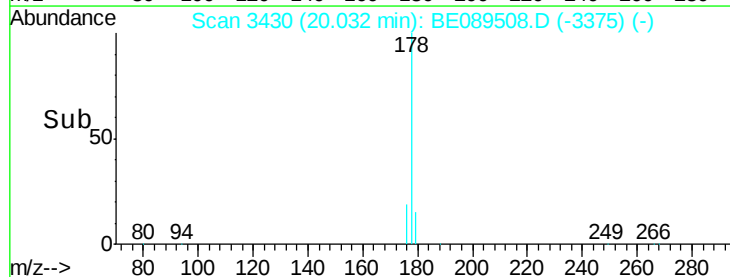
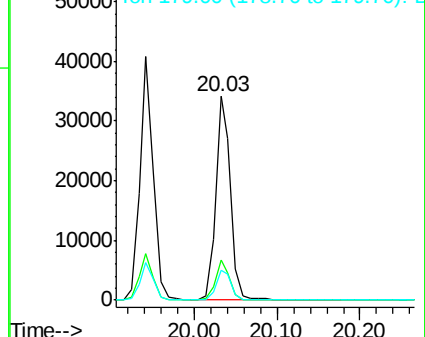
Ion	Ratio	Lower	Upper
178	100		
176	18.6	14.6	22.0
179	15.2	12.1	18.1

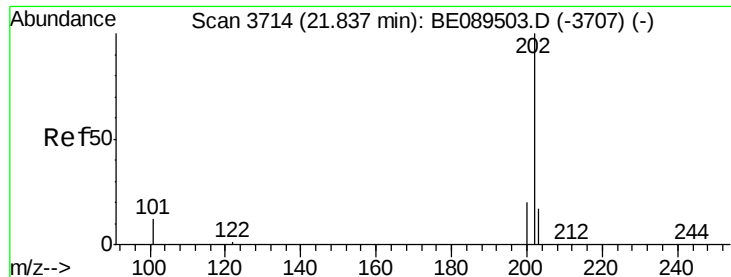


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

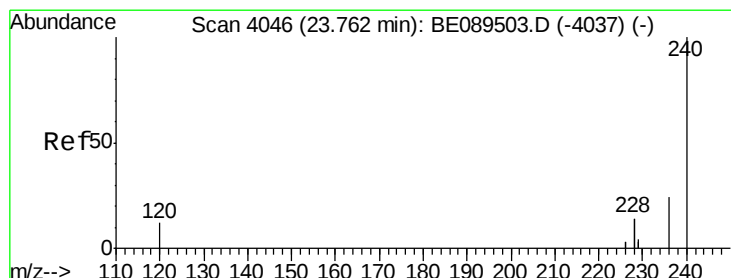
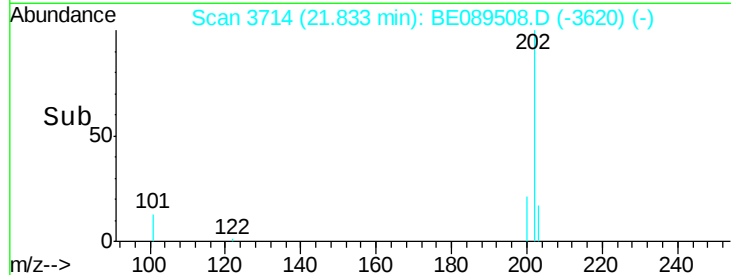
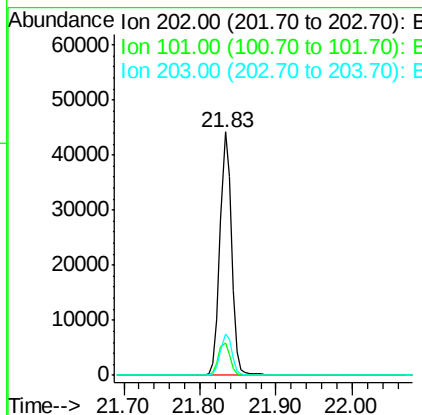
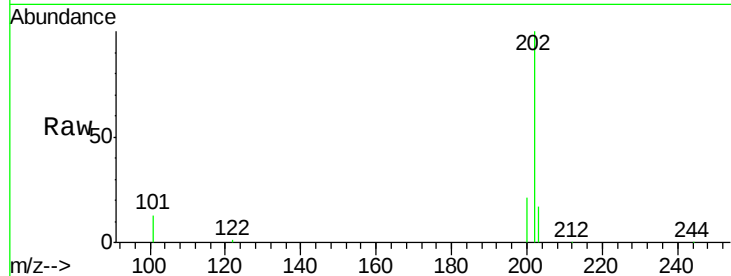




#15
 Fluoranthene
 Concen: 1.13 ng
 RT: 21.83 min Scan# 3714
 Delta R.T. -0.00 min
 Lab File: BE089508.D
 Acq: 5 Feb 2015 18:16

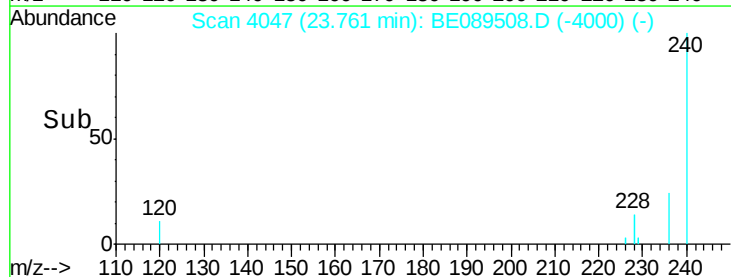
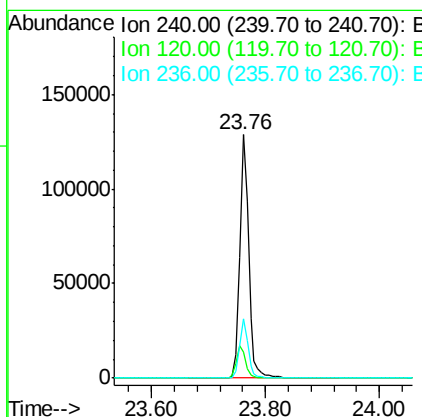
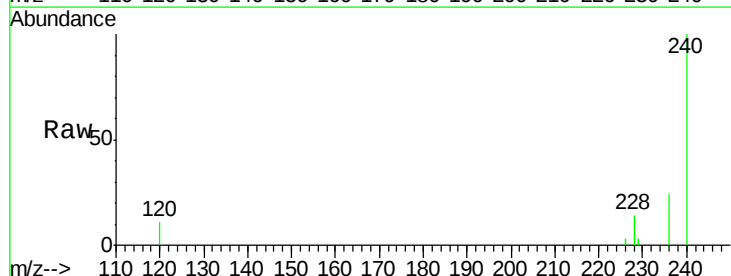
Instrument :
 BNA_E
 ClientSampleId :
 ICVBE020515

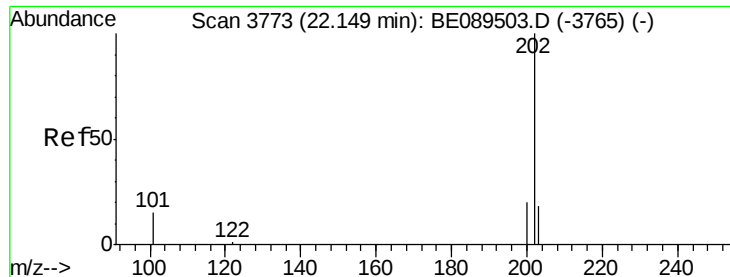
Tot Ion:202 Resp: 45831
 Ion Ratio Lower Upper
 202 100
 101 13.4 11.3 16.9
 203 17.2 13.8 20.6



#16
 Chrysene-d12
 Concen: 5.00 ng
 RT: 23.76 min Scan# 4047
 Delta R.T. -0.00 min
 Lab File: BE089508.D
 Acq: 5 Feb 2015 18:16

Tgt Ion:240 Resp: 136802
 Ion Ratio Lower Upper
 240 100
 120 10.8 9.6 14.4
 236 24.4 19.4 29.2

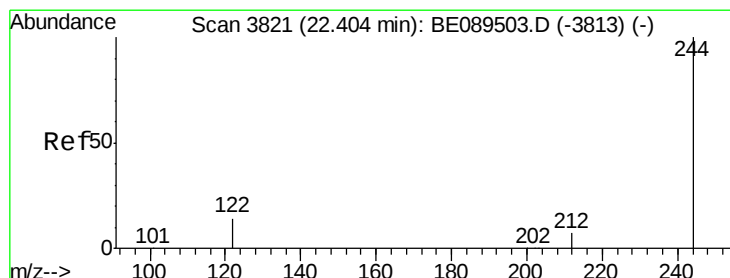
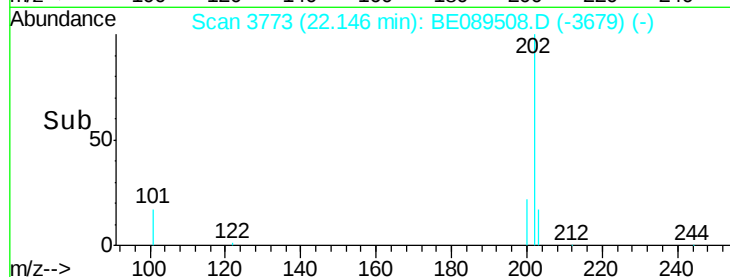
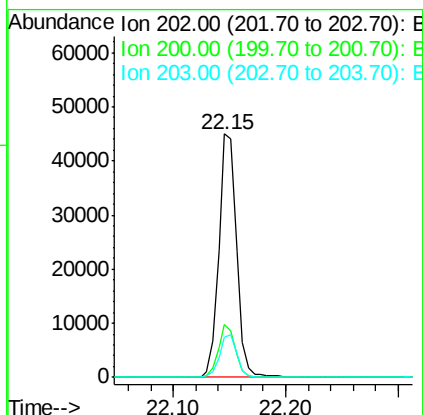
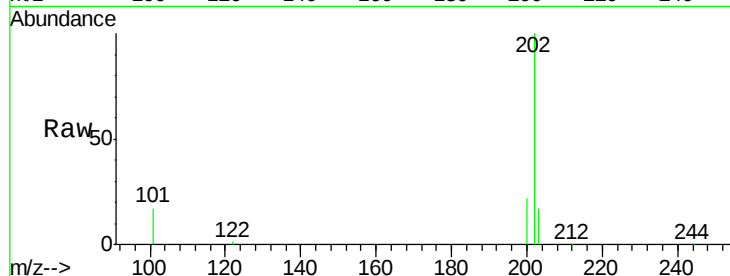




#17
Pvrene
Concen: 1.25 ng
RT: 22.15 min Scan# 3773
Delta R.T. -0.00 min
Lab File: BE089508.D
Acq: 5 Feb 2015 18:16

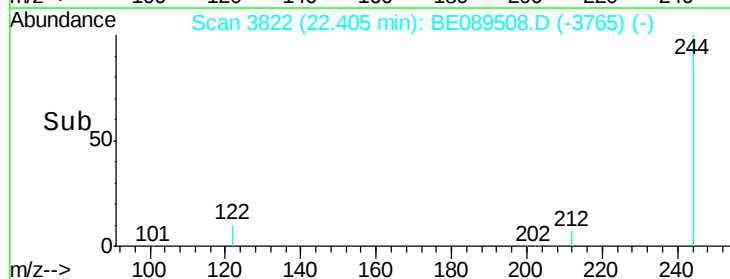
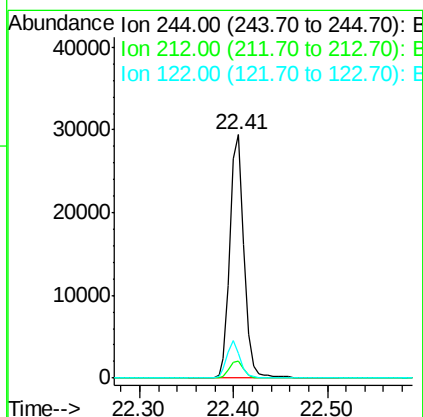
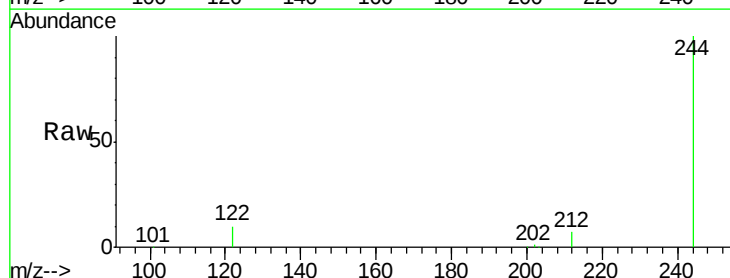
Instrument :
BNA_E
ClientSampleId :
ICVBE020515

Tot Ion:202 Resp: 48907
Ion Ratio Lower Upper
202 100
200 20.7 16.5 24.7
203 17.1 14.0 21.0



#18
Terphenyl-d14
Concen: 1.26 ng
RT: 22.41 min Scan# 3822
Delta R.T. 0.00 min
Lab File: BE089508.D
Acq: 5 Feb 2015 18:16

Tgt Ion:244 Resp: 30027
Ion Ratio Lower Upper
244 100
212 7.0 5.5 8.3
122 10.0 11.1 16.7#





#19

Benzo(a)anthracene

Concen: 1.13 ng

RT: 23.75 min Scan# 4045

Delta R.T. 0.00 min

Lab File: BE089508.D

Acq: 5 Feb 2015 18:16

Instrument :

BNA_E

ClientSampleId :

ICVBE020515

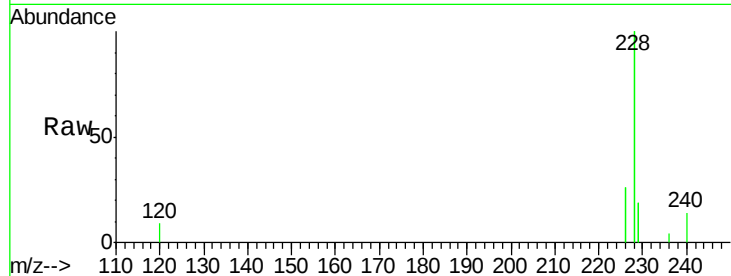
Tot Ion:228 Resp: 187758

Ion Ratio Lower Upper

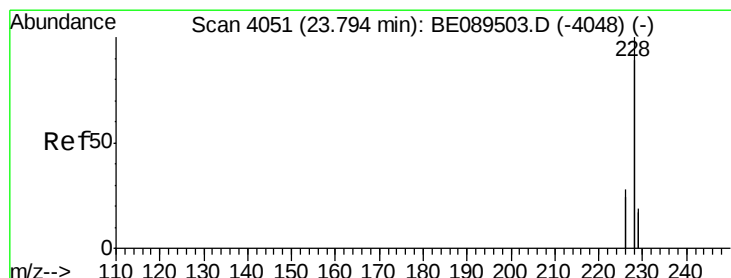
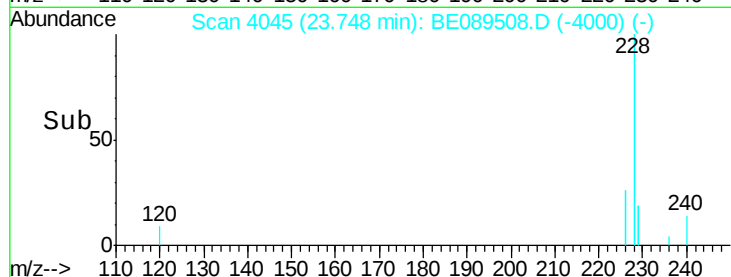
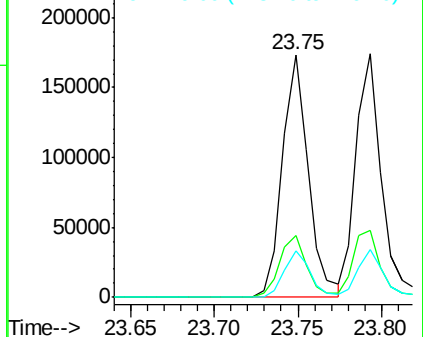
228 100

226 25.8 21.0 31.6

229 19.4 15.5 23.3



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: 1.16 ng

RT: 23.79 min Scan# 4052

Delta R.T. 0.00 min

Lab File: BE089508.D

Acq: 5 Feb 2015 18:16

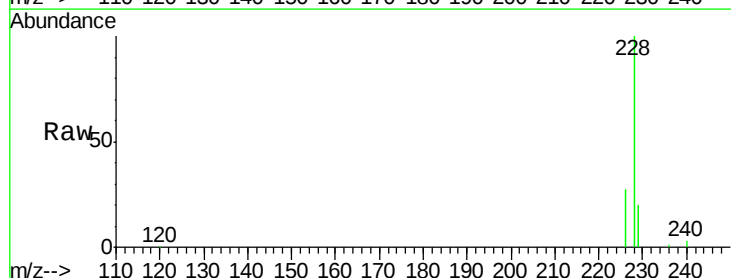
Tgt Ion:228 Resp: 193282

Ion Ratio Lower Upper

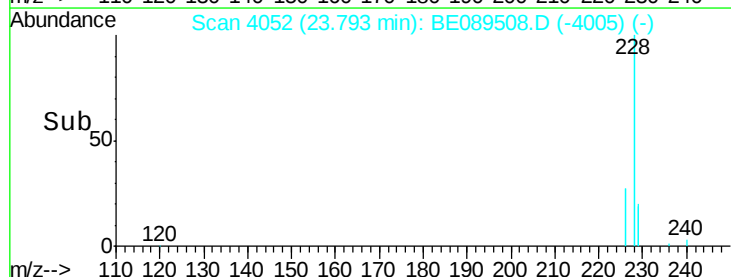
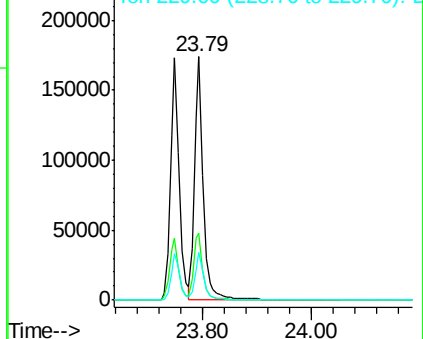
228 100

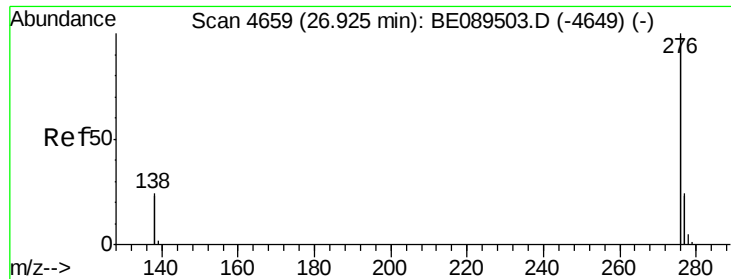
226 27.3 22.3 33.5

229 19.7 15.4 23.0



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

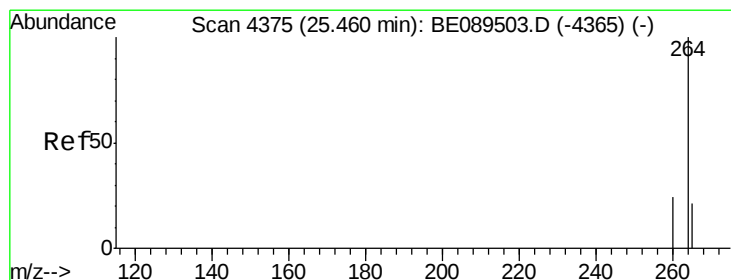
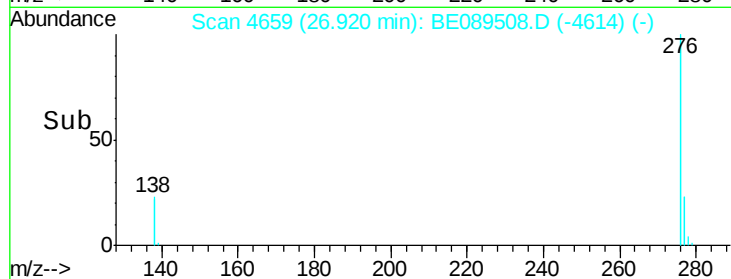
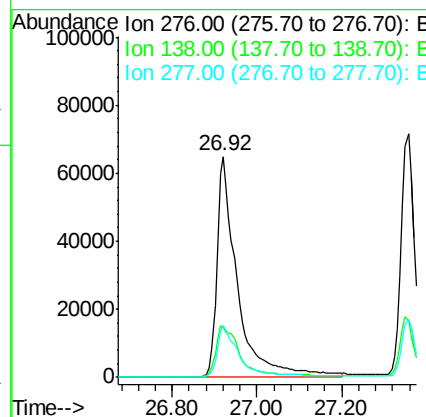
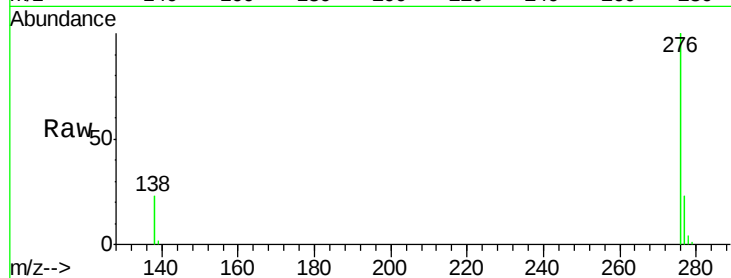




#21
Indeno(1,2,3-cd)pyrene
Concen: 1.14 ng
RT: 26.92 min Scan# 4659
Delta R.T. -0.00 min
Lab File: BE089508.D
Acq: 5 Feb 2015 18:16

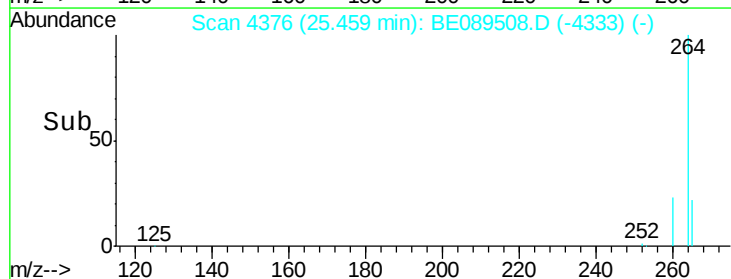
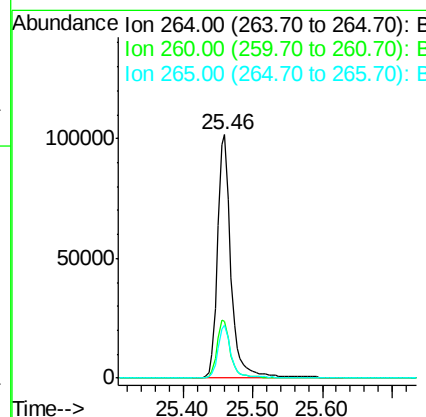
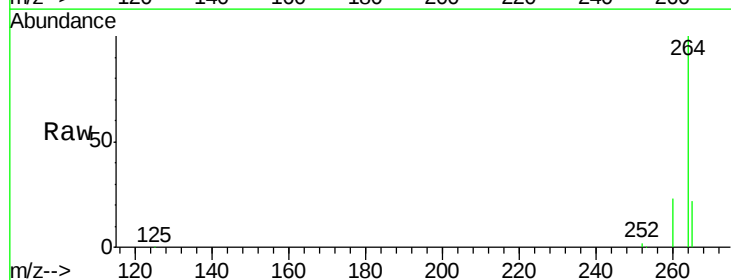
Instrument :
BNA_E
ClientSampleId :
ICVBE020515

Tot Ion:276 Resp: 217119
Ion Ratio Lower Upper
276 100
138 26.1 23.2 34.8
277 24.6 19.8 29.6



#22
Perylene-d12
Concen: 5.00 ng
RT: 25.46 min Scan# 4376
Delta R.T. -0.00 min
Lab File: BE089508.D
Acq: 5 Feb 2015 18:16

Tgt Ion:264 Resp: 136624
Ion Ratio Lower Upper
264 100
260 23.5 19.0 28.6
265 21.7 17.0 25.6





#23

Benzo(b)fluoranthene

Concen: 1.10 ng

RT: 25.02 min Scan# 4279

Delta R.T. -0.00 min

Lab File: BE089508.D

Acq: 5 Feb 2015 18:16

Instrument :

BNA_E

ClientSampleId :

ICVBE020515

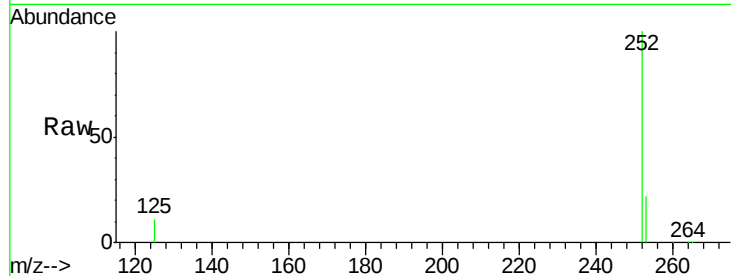
Tot Ion:252 Resp: 41766

Ion Ratio Lower Upper

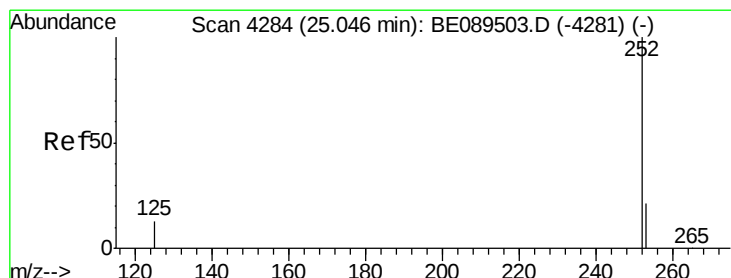
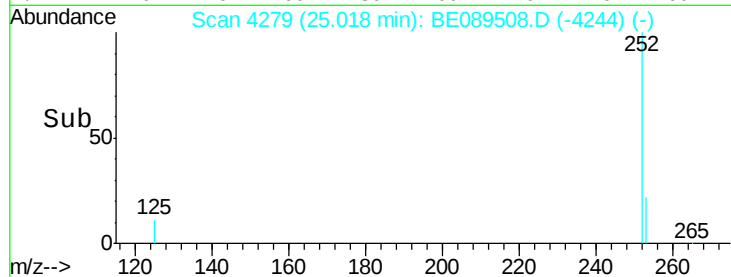
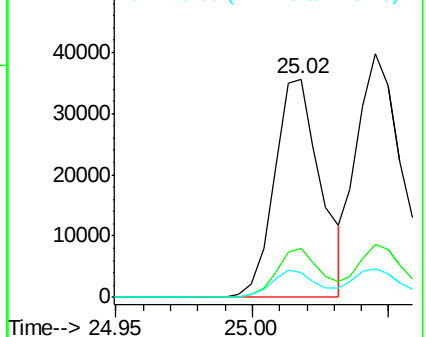
252 100

253 22.3 17.4 26.0

125 11.2 9.6 14.4



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: 1.28 ng

RT: 25.05 min Scan# 4285

Delta R.T. -0.00 min

Lab File: BE089508.D

Acq: 5 Feb 2015 18:16

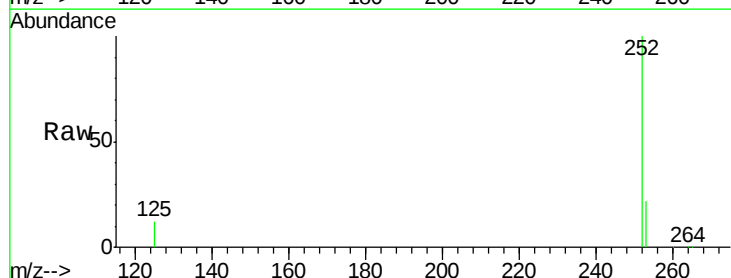
Tgt Ion:252 Resp: 55958

Ion Ratio Lower Upper

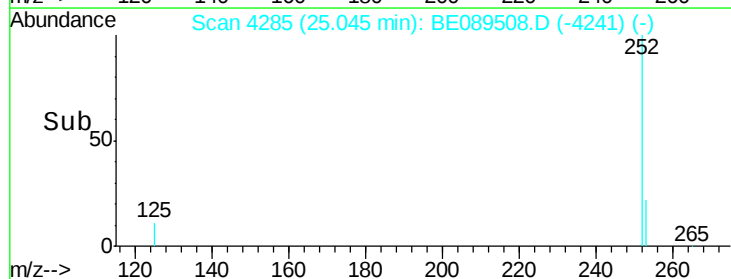
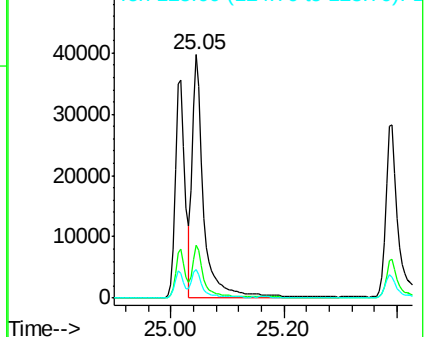
252 100

253 21.8 17.0 25.6

125 11.6 10.2 15.4



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

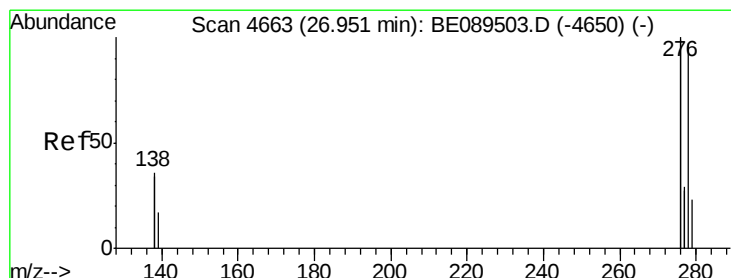
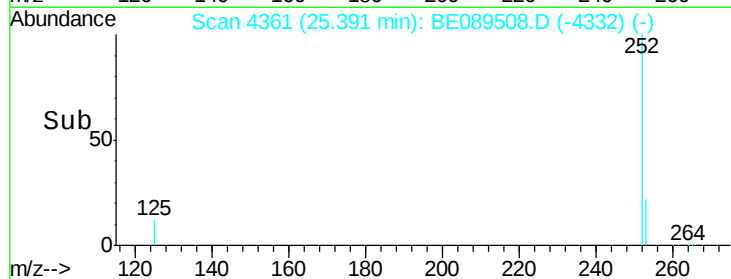
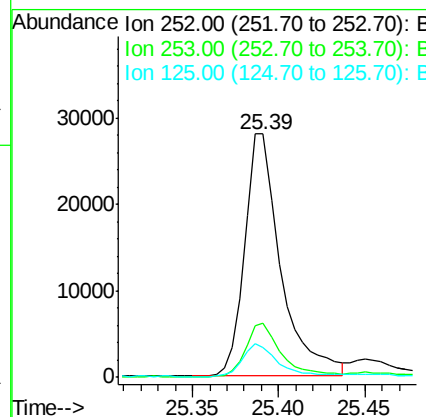
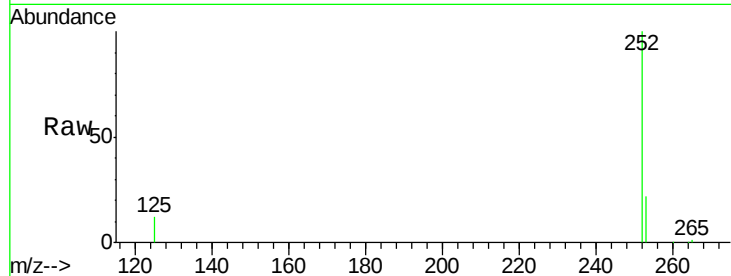




#25
Benzo(a)pyrene
Concen: 1.09 ng
RT: 25.39 min Scan# 4361
Delta R.T. 0.00 min
Lab File: BE089508.D
Acq: 5 Feb 2015 18:16

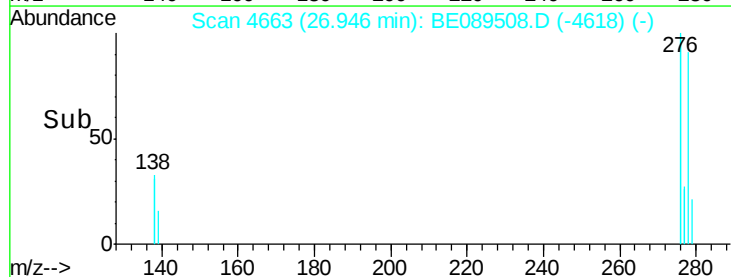
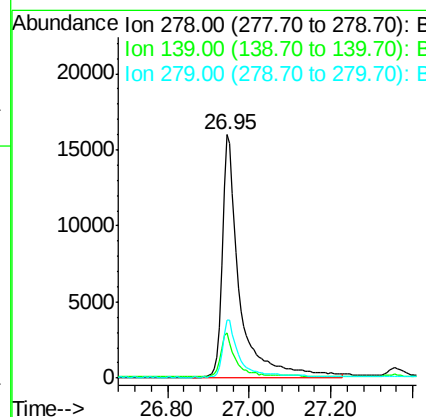
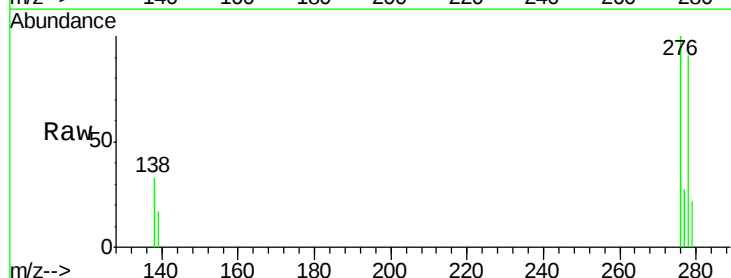
Instrument :
BNA_E
ClientSampleId :
ICVBE020515

Tot Ion:252 Resp: 40677
Ion Ratio Lower Upper
252 100
253 22.4 17.8 26.6
125 12.4 10.7 16.1



#26
Dibenzo(a,h)anthracene
Concen: 1.14 ng
RT: 26.95 min Scan# 4663
Delta R.T. -0.00 min
Lab File: BE089508.D
Acq: 5 Feb 2015 18:16

Tgt Ion:278 Resp: 46208
Ion Ratio Lower Upper
278 100
139 18.4 14.6 22.0
279 23.8 19.0 28.4





#27

Benzo(a,h,i)perylene

Concen: 1.16 ng

RT: 27.36 min Scan# 4726

Delta R.T. 0.00 min

Lab File: BE089508.D

Acq: 5 Feb 2015 18:16

Instrument :

BNA_E

ClientSampleId :

ICVBE020515

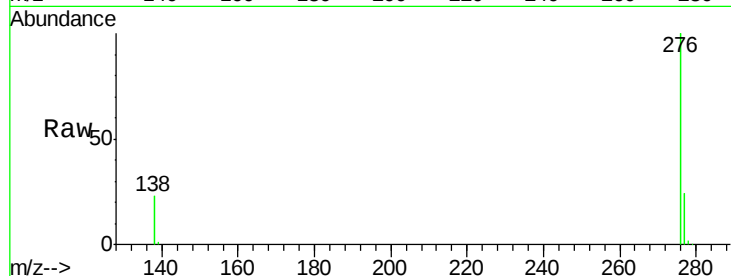
Tot Ion: 276 Resp: 182417

Ion Ratio Lower Upper

276 100

277 24.1 18.6 28.0

138 23.2 20.8 31.2



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

