

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE020615\
 Data File : BE089545.D
 Acq On : 7 Feb 2015 4:11
 Operator : TP/IZ
 Sample : G1245-05
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 FB

Quant Time: Feb 07 06:11:48 2015
 Quant Method : Z:\HPCHEM1\BNA_E\methods\SIMPAH-BE020615.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Feb 07 04:07:57 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.42	152	34207	5.00	ng	0.00
2) Naphthalene-d8	12.33	136	132769	5.00	ng	0.00
6) Acenaphthene-d10	16.51	164	55936	5.00	ng	0.00
11) Phenanthrene-d10	19.84	188	107993	5.00	ng	0.00
16) Chrysene-d12	23.72	240	120401	5.00	ng	0.00
22) Perylene-d12	25.41	264	124034	5.00	ng	0.00

System Monitoring Compounds						
3) Nitrobenzene-d5	10.69	82	72805	8.26	ng	0.00
7) 2-Fluorobiphenyl	14.96	172	123063	8.25	ng	0.00
18) Terphenyl-d14	22.36	244	159239	10.03	ng	0.00

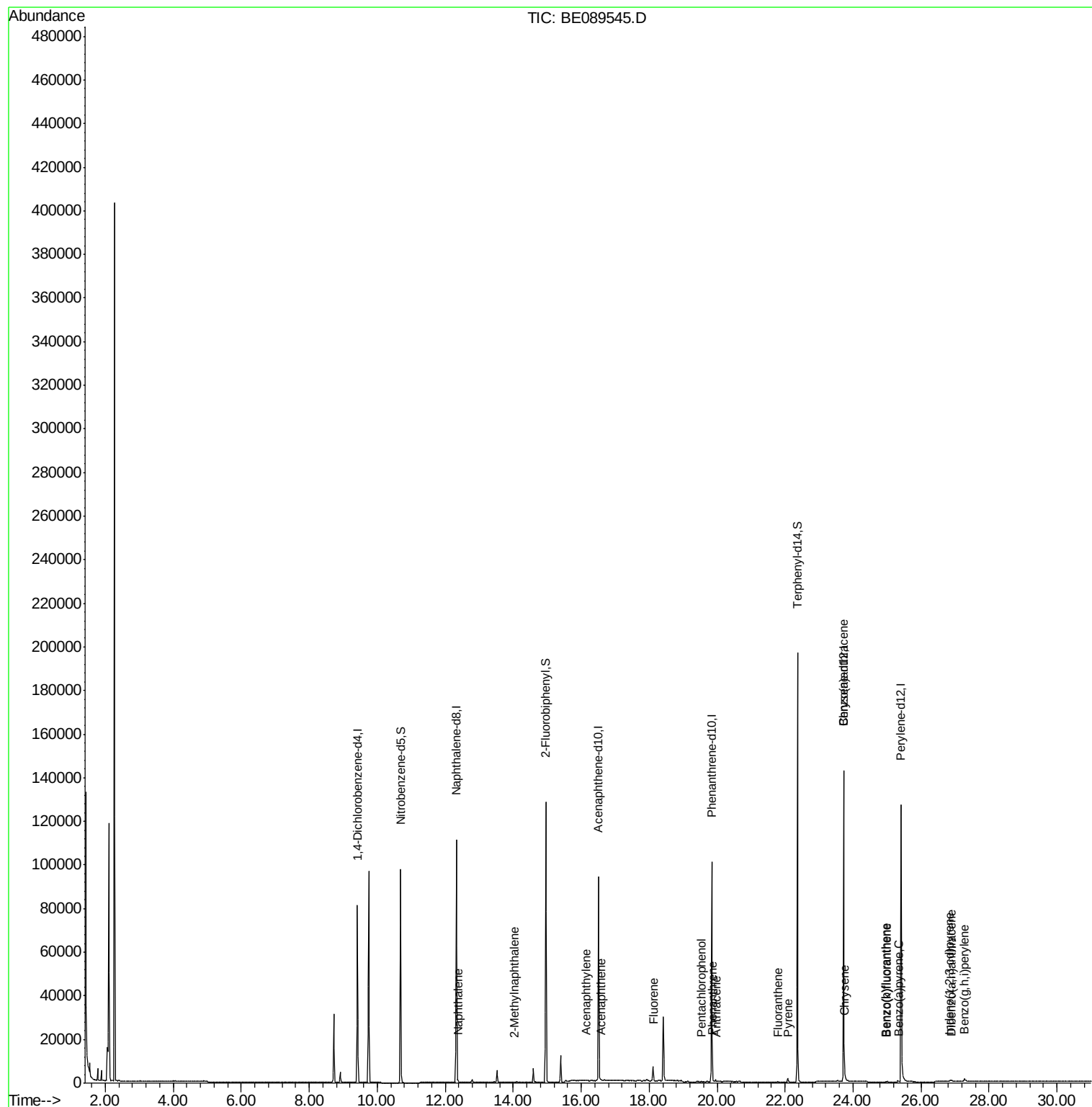
Target Compounds						Qvalue
4) Naphthalene	12.38	128	1400	0.05	ng	# 91
5) 2-Methylnaphthalene	14.03	142	97	0.01	ng	# 43
8) Acenaphthylene	16.16	152	456	0.00	ng	# 76
9) Acenaphthene	16.59	154	43	0.00	ng	# 1
10) Fluorene	18.12	166	7124	0.45	ng	# 22
12) Pentachlorophenol	19.53	266	8	0.54	ng	# 78
13) Phenanthrene	19.89	178	490	0.02	ng	# 95
14) Anthracene	19.98	178	148	0.01	ng	# 73
15) Fluoranthene	21.79	202	400	0.02	ng	# 87
17) Pyrene	22.10	202	363	0.01	ng	# 96
19) Benzo(a)anthracene	23.71	228	3077	0.03	ng	# 89
20) Chrysene	23.75	228	2809	0.03	ng	# 87
21) Indeno(1,2,3-cd)pyrene	26.85	276	1595	0.01	ng	# 78
23) Benzo(b)fluoranthene	24.97	252	353	0.01	ng	# 56
24) Benzo(k)fluoranthene	25.00	252	434	0.01	ng	# 64
25) Benzo(a)pyrene	25.34	252	323	0.01	ng	# 37
26) Dibenzo(a,h)anthracene	26.89	278	302	0.01	ng	# 38
27) Benzo(g,h,i)perylene	27.27	276	2557	0.02	ng	# 65

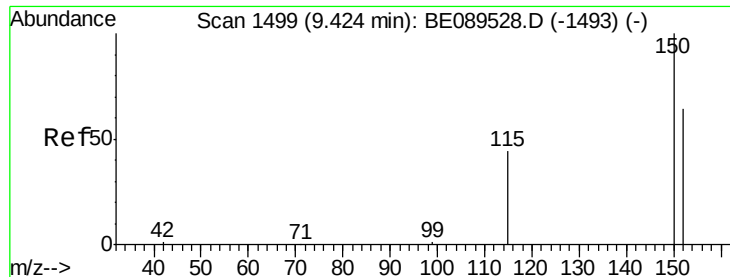
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 9.42 min Scan# 1498

Delta R.T. -0.00 min

Lab File: BE089545.D

Acq: 7 Feb 2015 4:11

Instrument :

BNA_E

ClientSampled :

FB

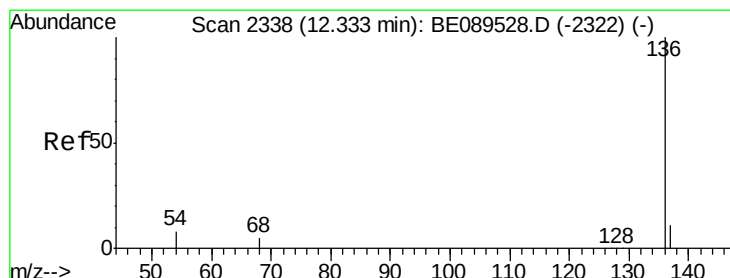
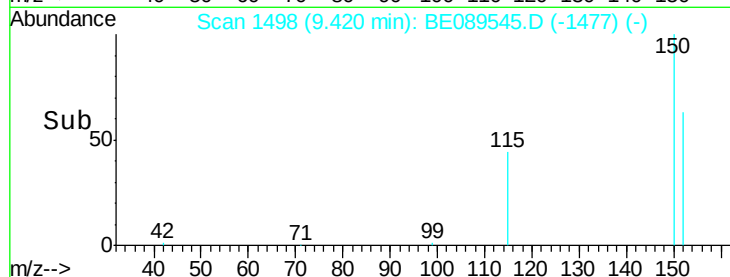
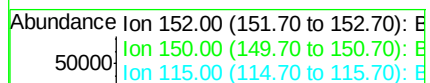
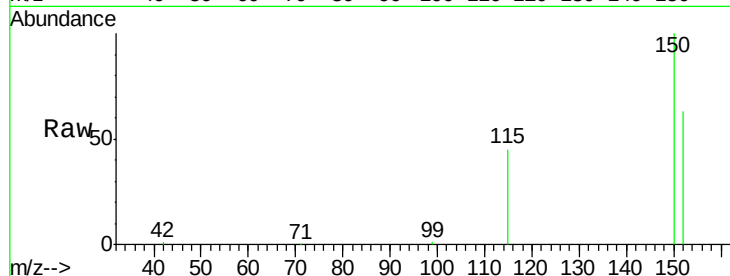
Tgt Ion:152 Resp: 34207

Ion Ratio Lower Upper

152 100

150 158.8 125.7 188.5

115 70.8 55.6 83.4



#2

Naphthalene-d8

Concen: 5.00 ng

RT: 12.33 min Scan# 2337

Delta R.T. -0.01 min

Lab File: BE089545.D

Acq: 7 Feb 2015 4:11

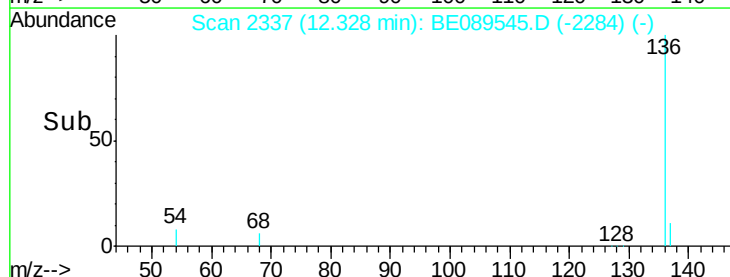
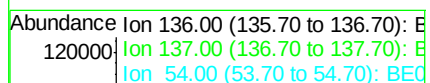
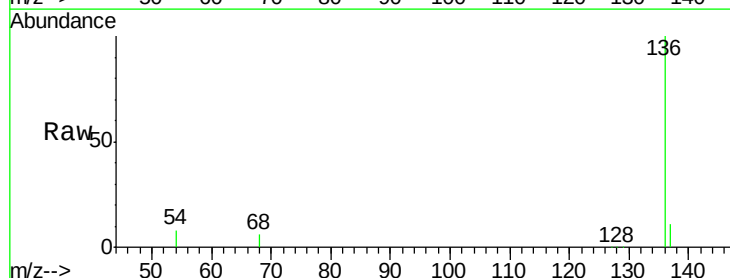
Tgt Ion:136 Resp: 132769

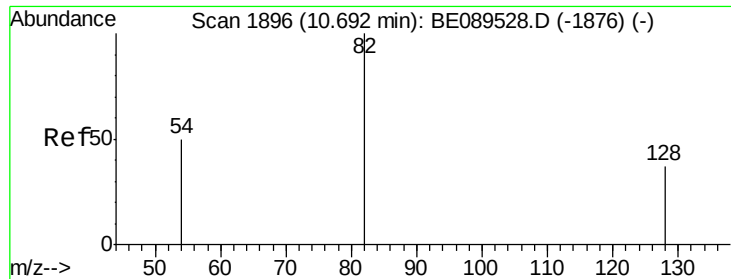
Ion Ratio Lower Upper

136 100

137 10.7 8.7 13.1

54 7.9 6.1 9.1





#3

Nitrobenzene-d5

Concen: 8.26 ng

RT: 10.69 min Scan# 1894

Delta R.T. -0.00 min

Lab File: BE089545.D

Acq: 7 Feb 2015 4:11

Instrument :

BNA_E

ClientSampleId :

FB

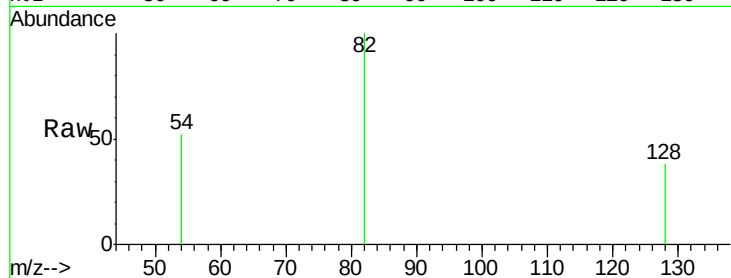
Tgt Ion: 82 Resp: 72805

Ion Ratio Lower Upper

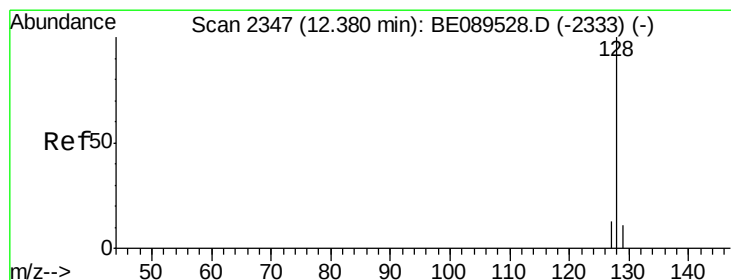
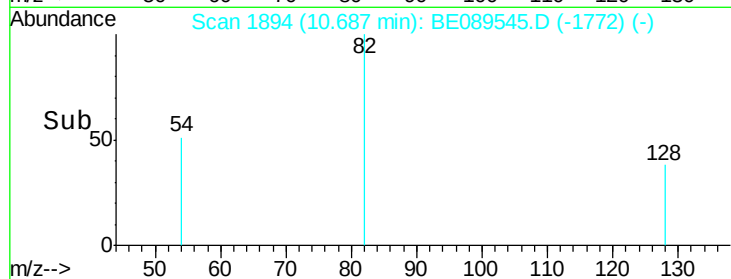
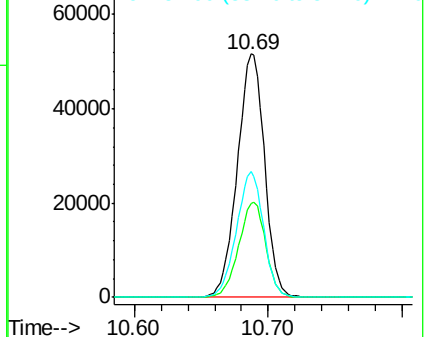
82 100

128 38.3 30.2 45.4

54 51.5 40.6 60.8



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



#4

Naphthalene

Concen: 0.05 ng

RT: 12.38 min Scan# 2346

Delta R.T. -0.01 min

Lab File: BE089545.D

Acq: 7 Feb 2015 4:11

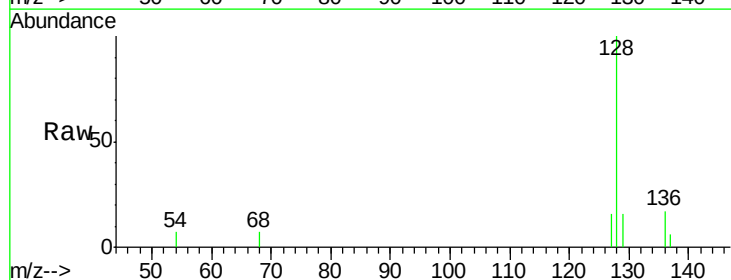
Tgt Ion: 128 Resp: 1400

Ion Ratio Lower Upper

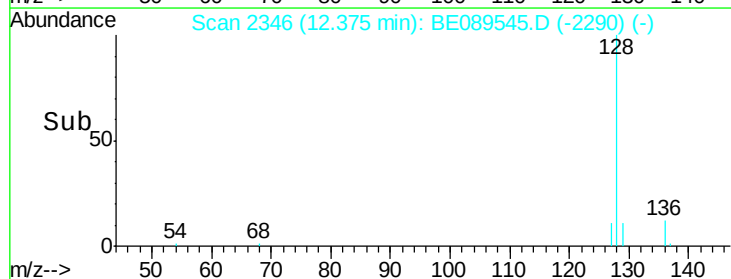
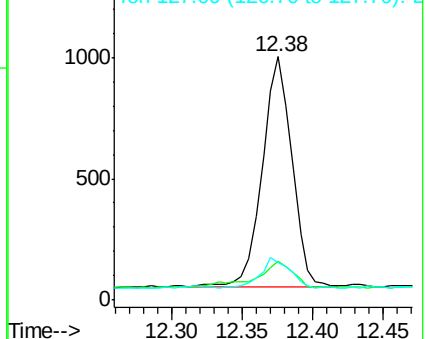
128 100

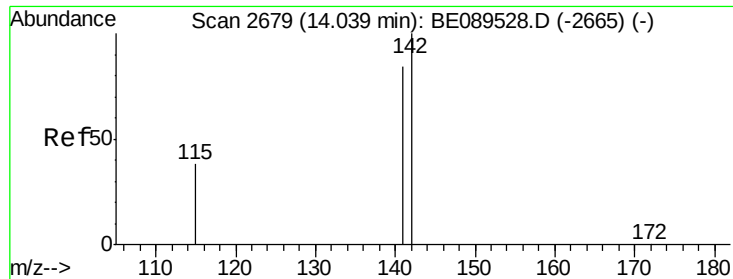
129 15.8 9.1 13.7#

127 15.6 10.5 15.7



Abundance Ion 128.00 (127.70 to 128.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 127.00 (126.70 to 127.70): E





#5

2-Methylnaphthalene

Concen: 0.01 ng

RT: 14.03 min Scan# 2678

Delta R.T. -0.00 min

Lab File: BE089545.D

Acq: 7 Feb 2015 4:11

Instrument :

BNA_E

ClientSampled :

FB

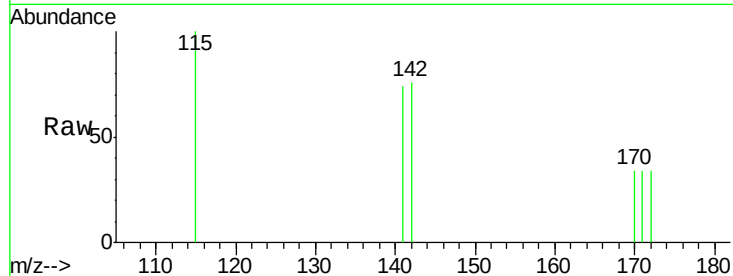
Tgt Ion:142 Resp: 97

Ion Ratio Lower Upper

142 100

141 96.3 67.0 100.6

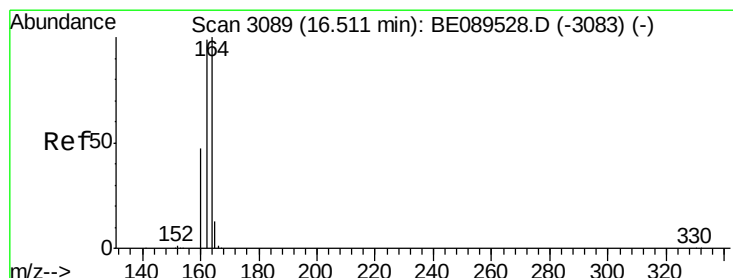
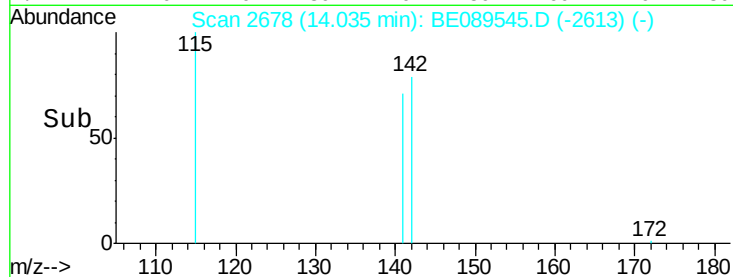
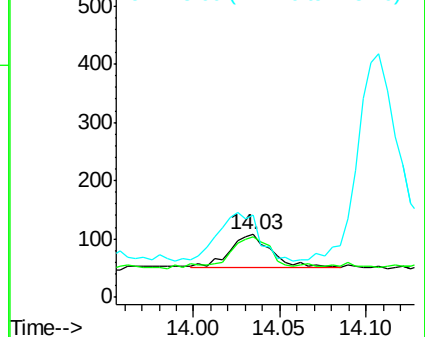
115 130.8 30.6 45.8#



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# 3089

Delta R.T. -0.00 min

Lab File: BE089545.D

Acq: 7 Feb 2015 4:11

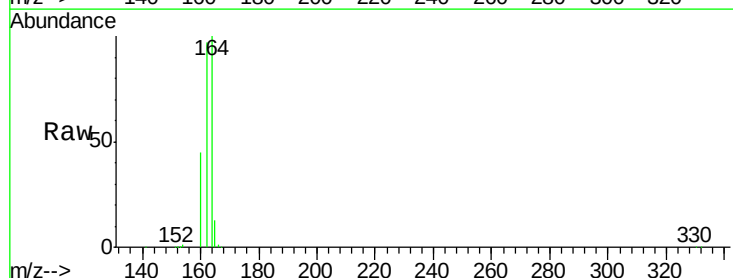
Tgt Ion:164 Resp: 55936

Ion Ratio Lower Upper

164 100

162 97.3 79.5 119.3

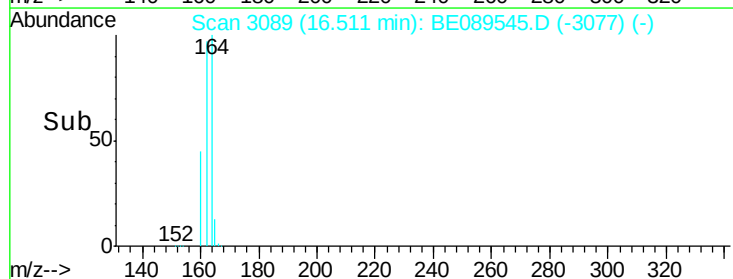
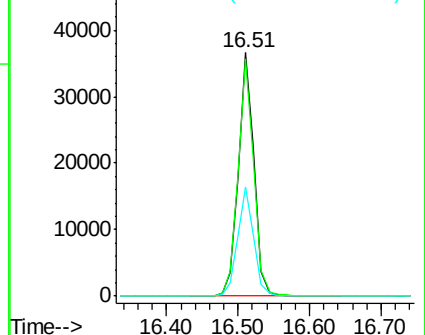
160 45.1 37.6 56.4

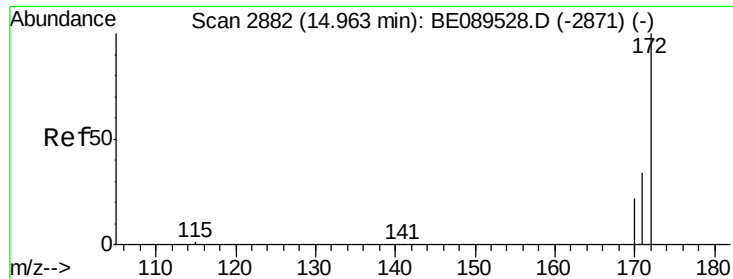


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#7

2-Fluorobiphenyl

Concen: 8.25 ng

RT: 14.96 min Scan# 2882

Delta R.T. -0.00 min

Lab File: BE089545.D

Acq: 7 Feb 2015 4:11

Instrument :

BNA_E

ClientSampleId :

FB

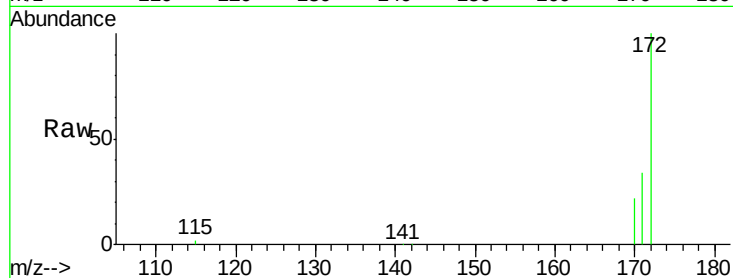
Tgt Ion:172 Resp: 123063

Ion Ratio Lower Upper

172 100

171 34.0 27.7 41.5

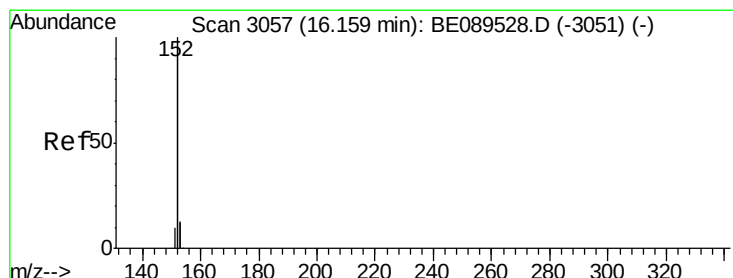
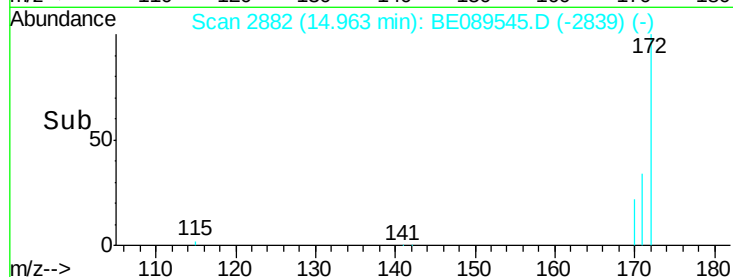
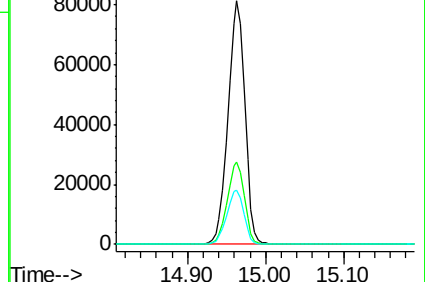
170 22.5 18.3 27.5



Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E



#8

Acenaphthylene

Concen: 0.00 ng

RT: 16.16 min Scan# 3057

Delta R.T. -0.00 min

Lab File: BE089545.D

Acq: 7 Feb 2015 4:11

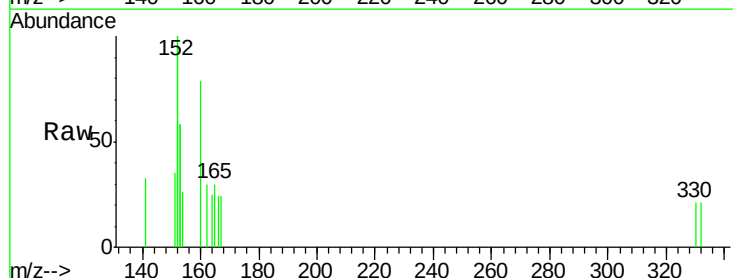
Tgt Ion:152 Resp: 456

Ion Ratio Lower Upper

152 100

151 8.1 4.0 6.0#

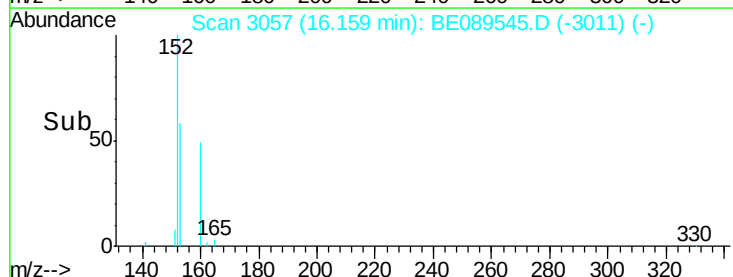
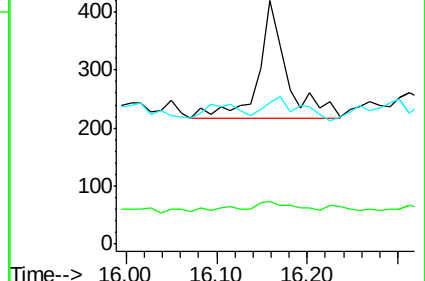
153 25.2 10.6 15.8#

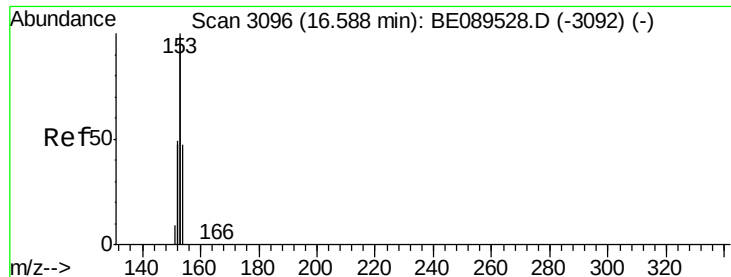


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#9

Acenaphthene

Concen: 0.00 ng

RT: 16.59 min Scan# 3096

Delta R.T. -0.00 min

Lab File: BE089545.D

Acq: 7 Feb 2015 4:11

Instrument :

BNA_E

ClientSampleId :

FB

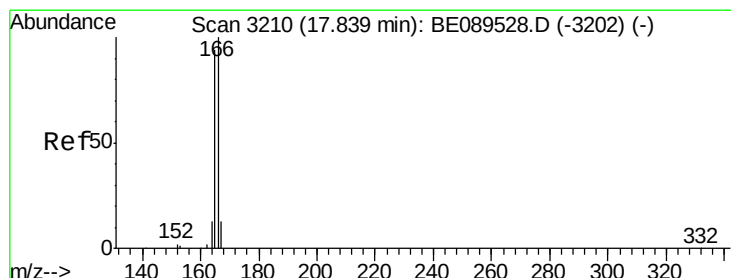
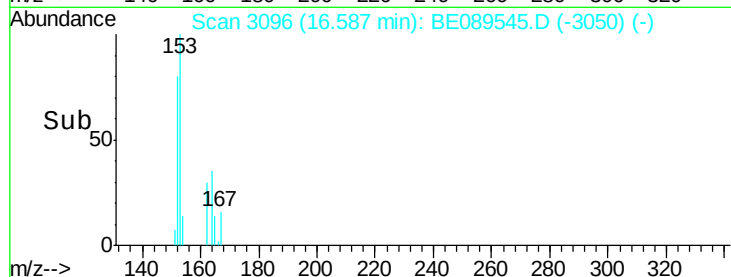
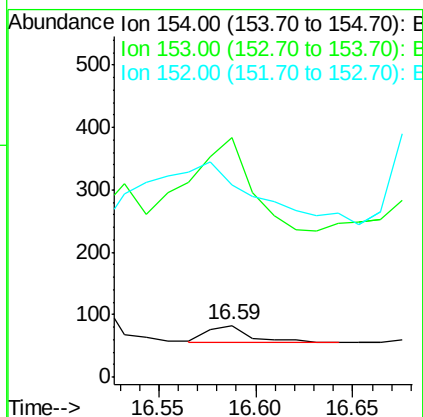
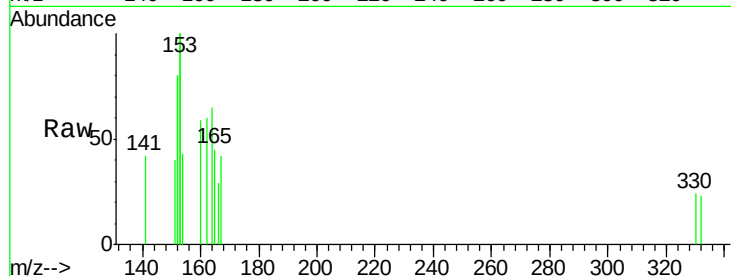
Tgt Ion:154 Resp: 43

Ion Ratio Lower Upper

154 100

153 762.8 340.8 511.2#

152 1351.2 165.5 248.3#



#10

Fluorene

Concen: 0.45 ng

RT: 18.12 min Scan# 3236

Delta R.T. 0.29 min

Lab File: BE089545.D

Acq: 7 Feb 2015 4:11

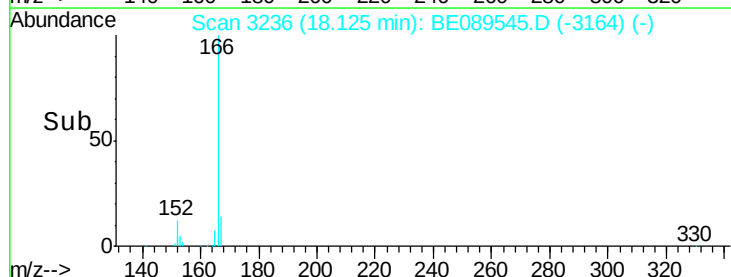
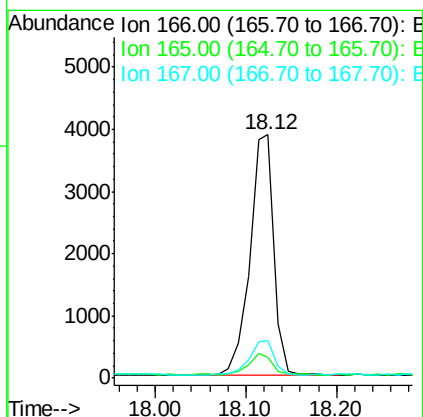
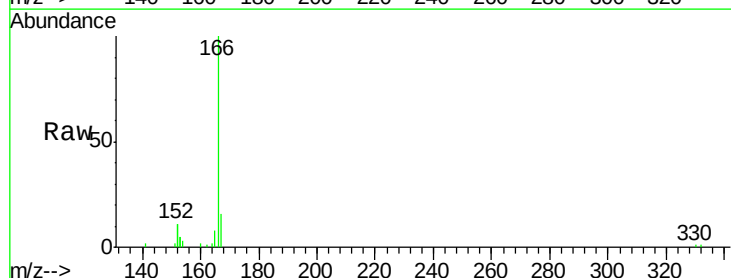
Tgt Ion:166 Resp: 7124

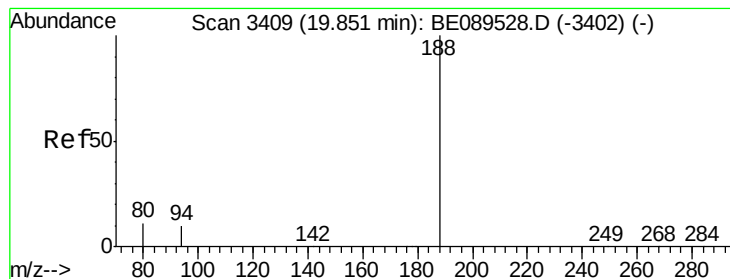
Ion Ratio Lower Upper

166 100

165 8.8 75.5 113.3#

167 14.7 10.9 16.3





#11

Phenanthrene-d10

Concen: 5.00 ng

RT: 19.84 min Scan# 3408

Delta R.T. -0.01 min

Lab File: BE089545.D

Acq: 7 Feb 2015 4:11

Instrument :

BNA_E

ClientSampleId :

FB

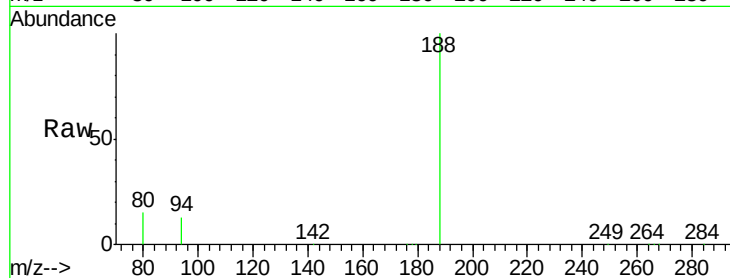
Tgt Ion:188 Resp: 107993

Ion Ratio Lower Upper

188 100

94 13.3 8.4 12.6#

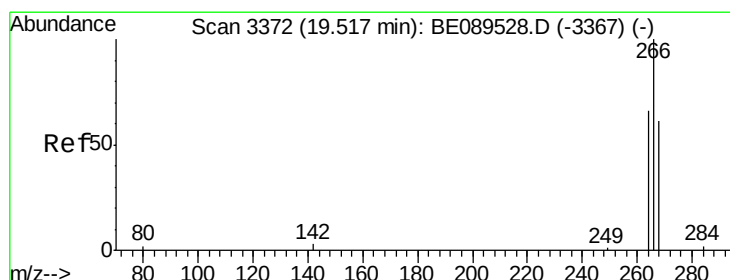
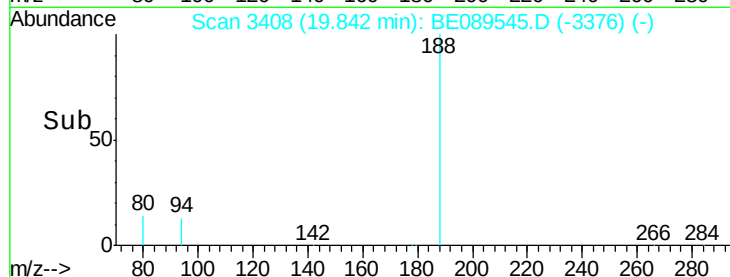
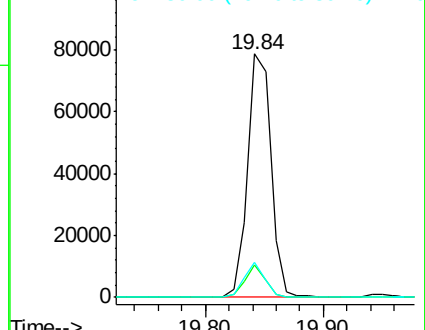
80 14.5 8.6 12.8#



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: 0.54 ng

RT: 19.53 min Scan# 3373

Delta R.T. 0.01 min

Lab File: BE089545.D

Acq: 7 Feb 2015 4:11

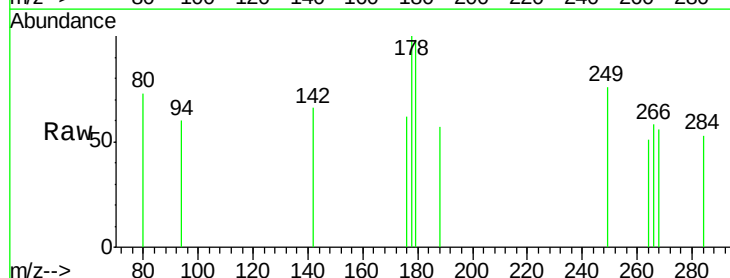
Tgt Ion:266 Resp: 8

Ion Ratio Lower Upper

266 100

268 96.2 57.9 86.9#

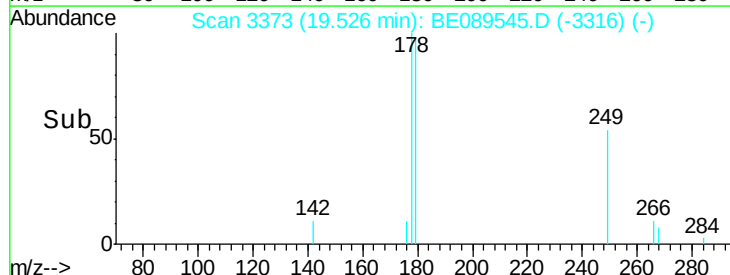
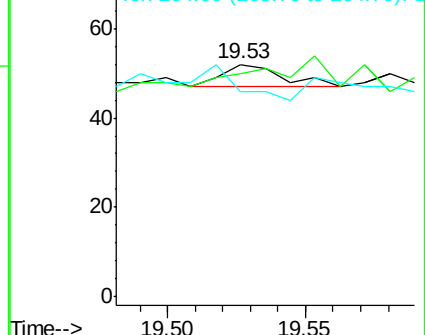
264 88.5 60.2 90.4

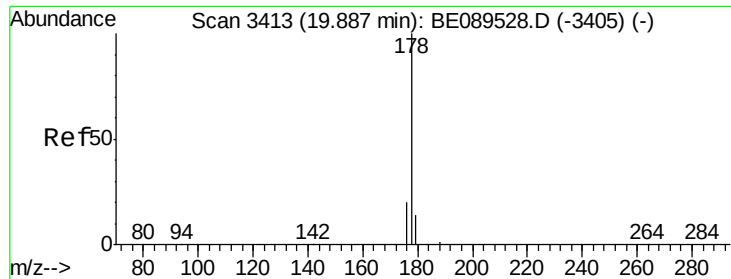


Abundance Ion 265.70 (265.40 to 266.40): E

Ion 268.00 (267.70 to 268.70): E

Ion 264.00 (263.70 to 264.70): E





#13

Phenanthrene

Concen: 0.02 ng

RT: 19.89 min Scan# 3413

Delta R.T. 0.00 min

Lab File: BE089545.D

Acq: 7 Feb 2015 4:11

Instrument :

BNA_E

ClientSampled :

FB

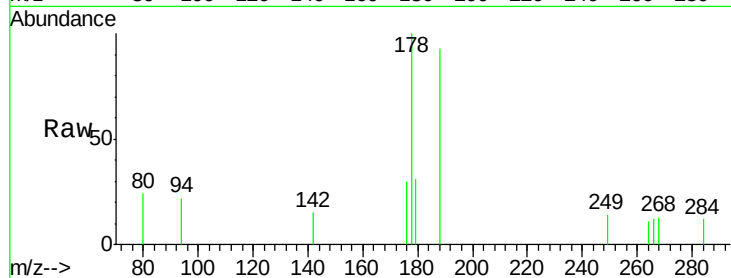
Tgt Ion:178 Resp: 490

Ion Ratio Lower Upper

178 100

176 19.6 15.4 23.0

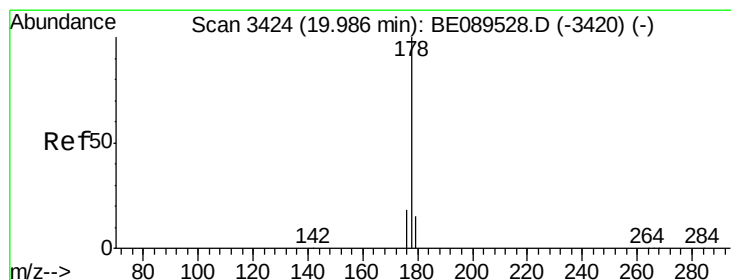
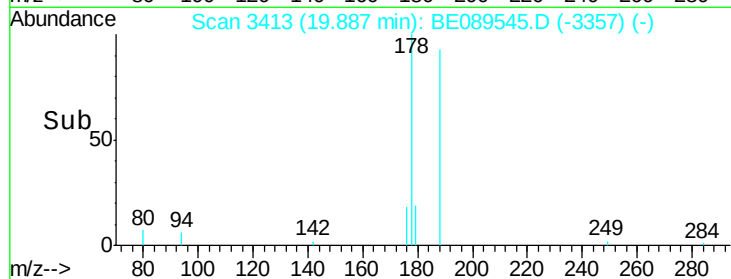
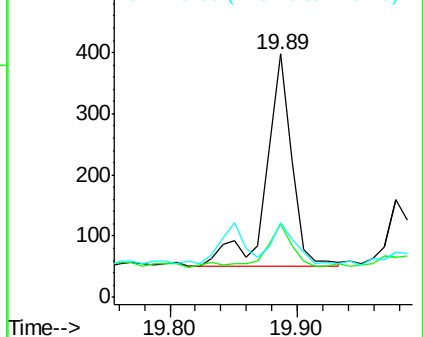
179 19.4 12.2 18.2#



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: 0.01 ng

RT: 19.98 min Scan# 3423

Delta R.T. -0.01 min

Lab File: BE089545.D

Acq: 7 Feb 2015 4:11

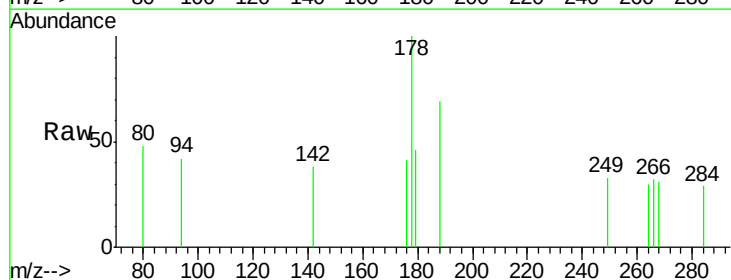
Tgt Ion:178 Resp: 148

Ion Ratio Lower Upper

178 100

176 25.7 14.5 21.7#

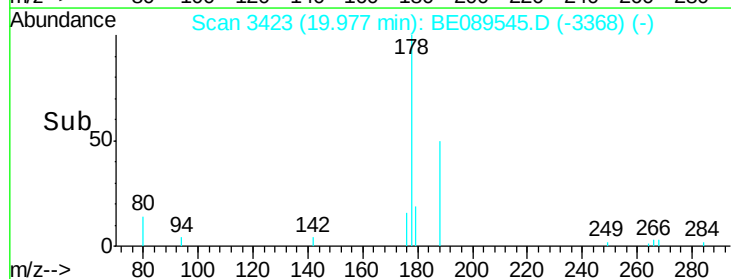
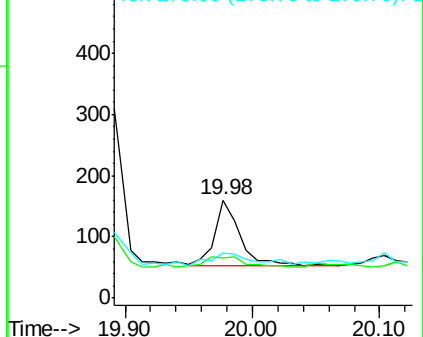
179 31.8 12.2 18.2#

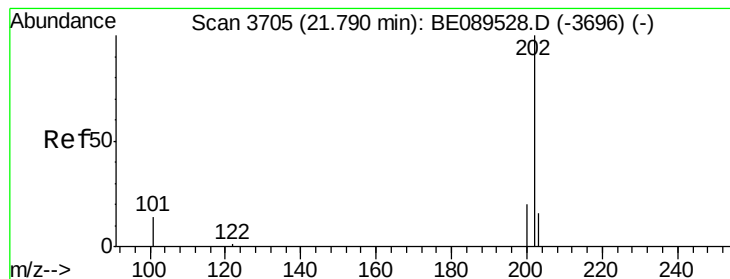


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#15

Fluoranthene

Concen: 0.02 ng

RT: 21.79 min Scan# 3705

Delta R.T. -0.00 min

Lab File: BE089545.D

Acq: 7 Feb 2015 4:11

Instrument :

BNA_E

ClientSampleId :

FB

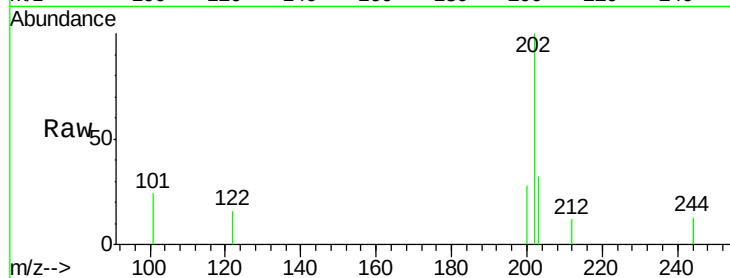
Tgt Ion:202 Resp: 400

Ion Ratio Lower Upper

202 100

101 18.5 11.6 17.4#

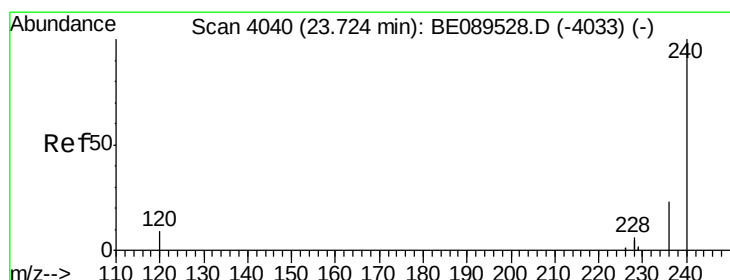
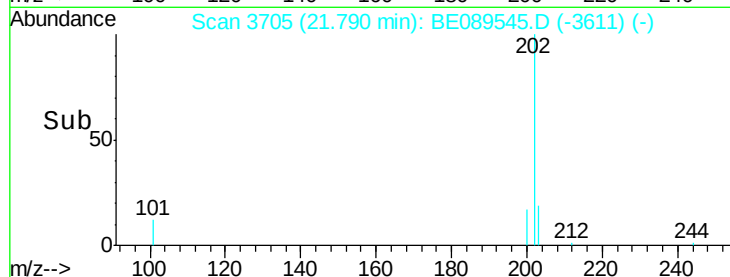
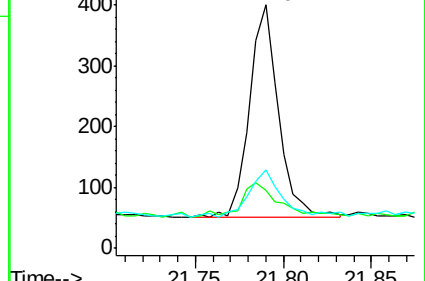
203 24.0 13.6 20.4#



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#16

Chrysene-d12

Concen: 5.00 ng

RT: 23.72 min Scan# 4039

Delta R.T. -0.01 min

Lab File: BE089545.D

Acq: 7 Feb 2015 4:11

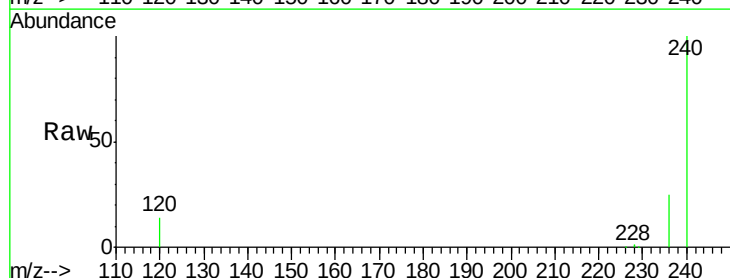
Tgt Ion:240 Resp: 120401

Ion Ratio Lower Upper

240 100

120 14.4 7.2 10.8#

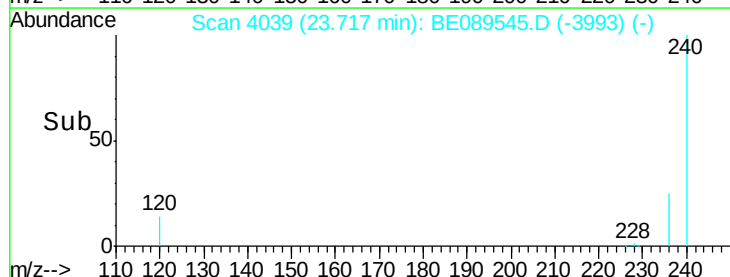
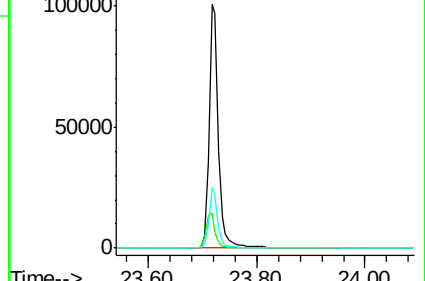
236 24.9 18.5 27.7

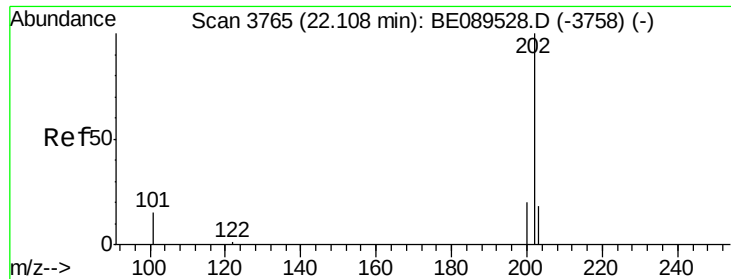


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



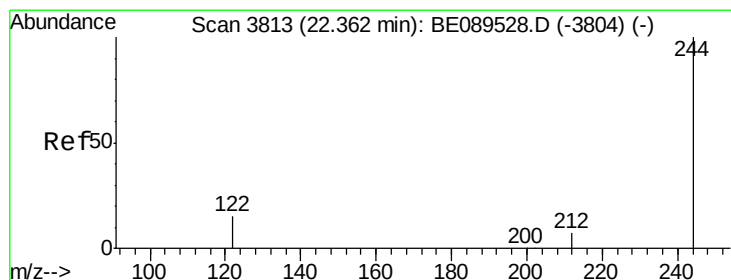
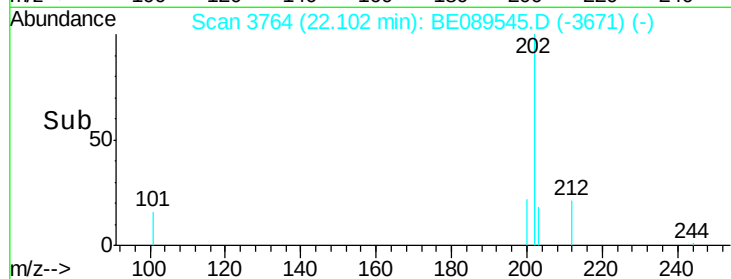
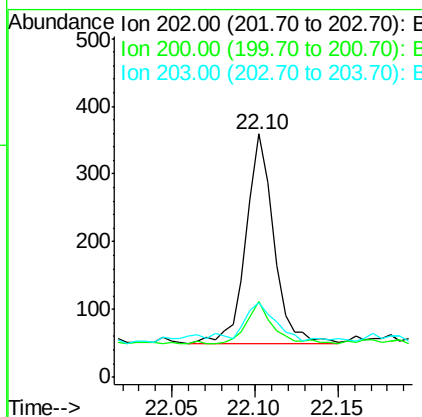
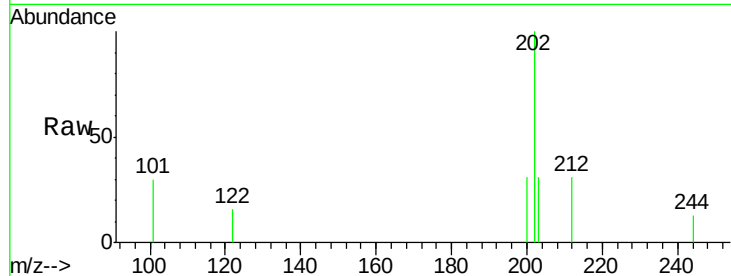


#17
Pyrene
 Concen: 0.01 ng
 RT: 22.10 min Scan# 3764
 Delta R.T. -0.01 min
 Lab File: BE089545.D
 Acq: 7 Feb 2015 4:11

Instrument :
 BNA_E
 ClientSampleId :
 FB

Tgt Ion: 202 Resp: 363

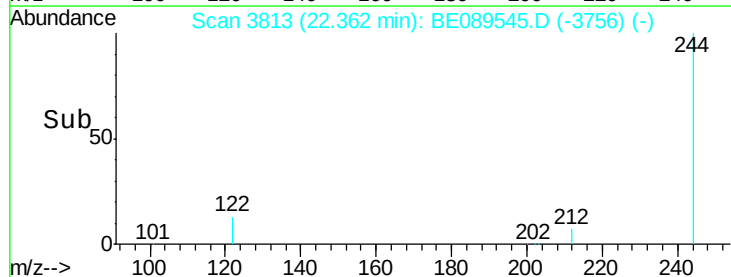
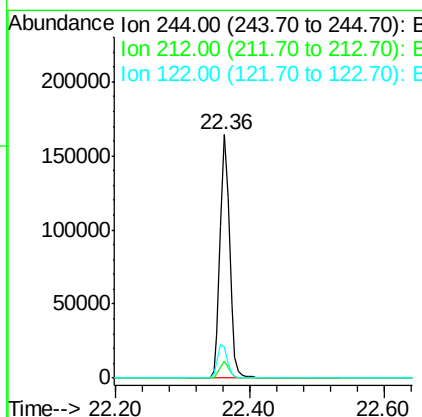
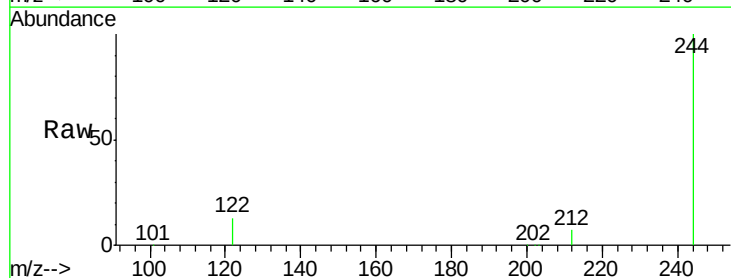
Ion	Ratio	Lower	Upper
202	100		
200	18.2	16.3	24.5
203	16.0	13.5	20.3

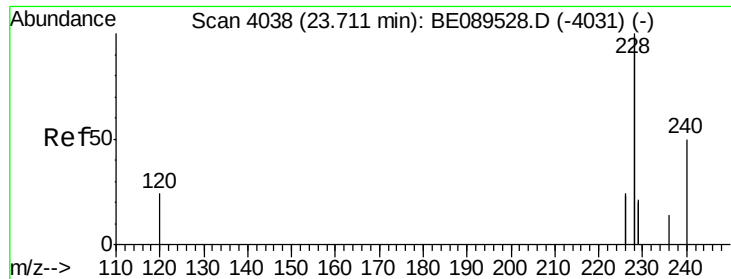


#18
Terphenyl-d14
 Concen: 10.03 ng
 RT: 22.36 min Scan# 3813
 Delta R.T. -0.00 min
 Lab File: BE089545.D
 Acq: 7 Feb 2015 4:11

Tgt Ion: 244 Resp: 159239

Ion	Ratio	Lower	Upper
244	100		
212	6.8	5.8	8.8
122	12.7	12.6	19.0





#19

Benzo(a)anthracene

Concen: 0.03 ng

RT: 23.71 min Scan# 4038

Delta R.T. -0.00 min

Lab File: BE089545.D

Acq: 7 Feb 2015 4:11

Instrument :

BNA_E

ClientSampleId :

FB

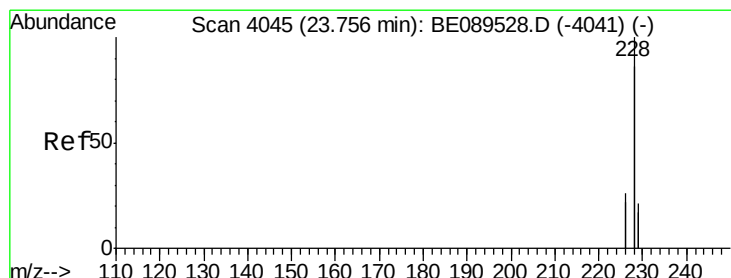
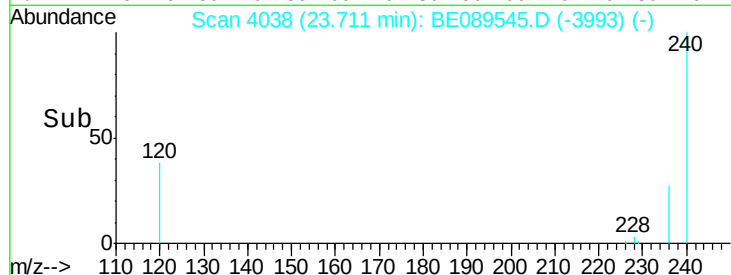
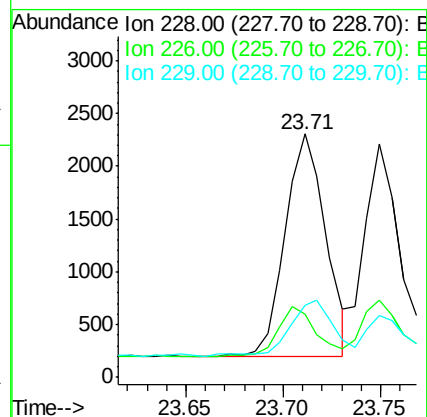
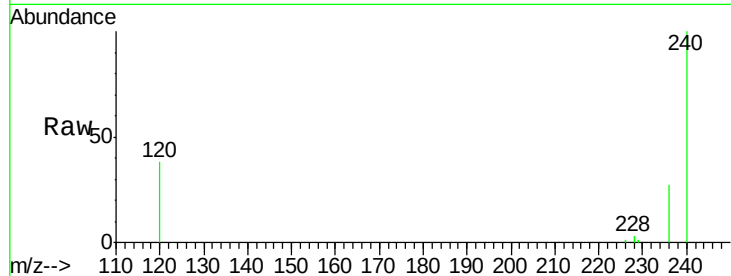
Tgt Ion:228 Resp: 3077

Ion Ratio Lower Upper

228 100

226 25.9 19.0 28.4

229 29.7 16.8 25.2#



#20

Chrysene

Concen: 0.03 ng

RT: 23.75 min Scan# 4044

Delta R.T. -0.01 min

Lab File: BE089545.D

Acq: 7 Feb 2015 4:11

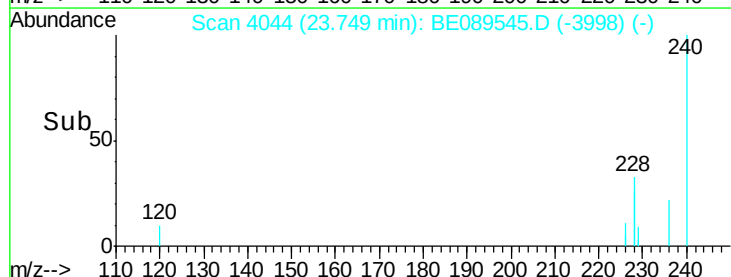
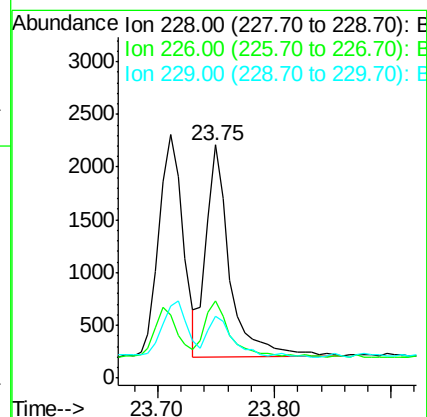
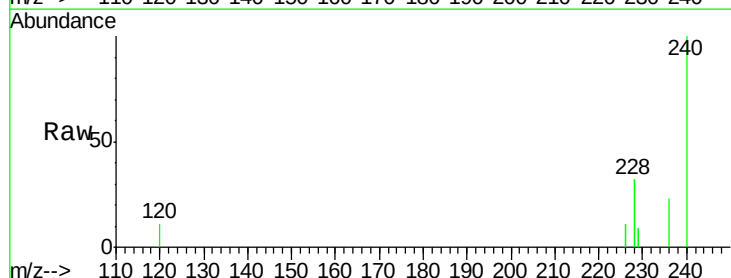
Tgt Ion:228 Resp: 2809

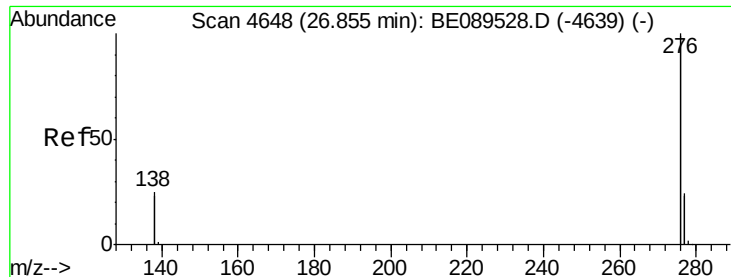
Ion Ratio Lower Upper

228 100

226 32.9 21.0 31.4#

229 26.7 16.7 25.1#





#21

Indeno(1,2,3-cd)pyrene

Concen: 0.01 ng

RT: 26.85 min Scan# 4647

Delta R.T. -0.01 min

Lab File: BE089545.D

Acq: 7 Feb 2015 4:11

Instrument :

BNA_E

ClientSampleId :

FB

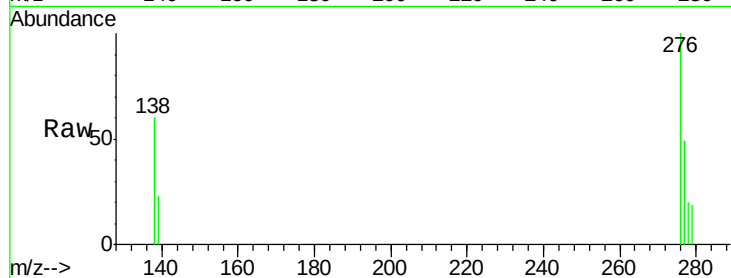
Tgt Ion: 276 Resp: 1595

Ion Ratio Lower Upper

276 100

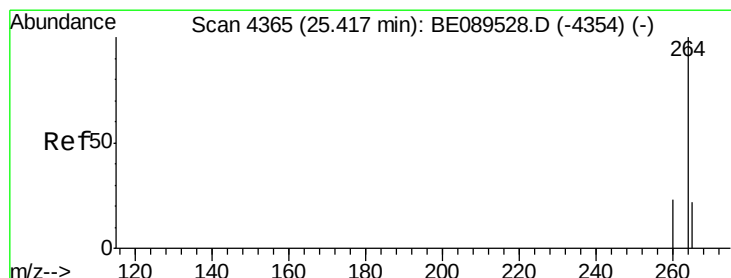
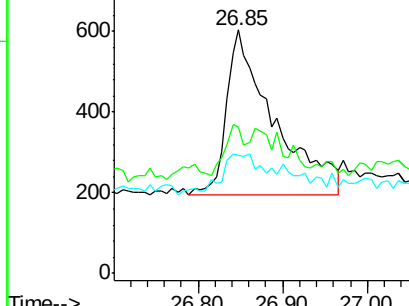
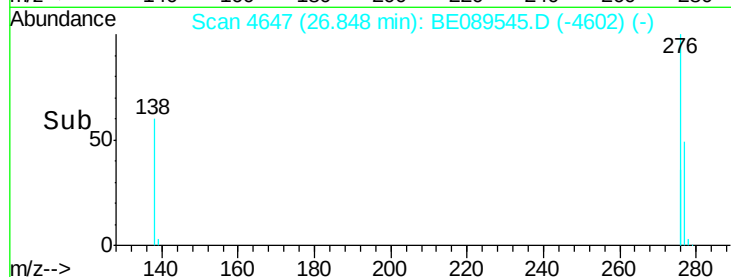
138 11.4 23.0 34.4#

277 20.2 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

26.85



#22

Perylene-d12

Concen: 5.00 ng

RT: 25.41 min Scan# 4364

Delta R.T. -0.01 min

Lab File: BE089545.D

Acq: 7 Feb 2015 4:11

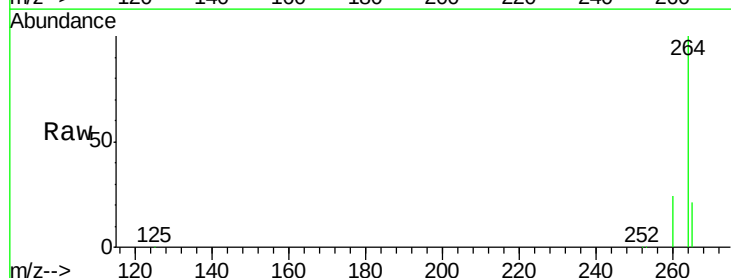
Tgt Ion: 264 Resp: 124034

Ion Ratio Lower Upper

264 100

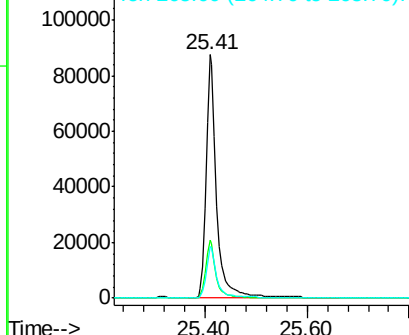
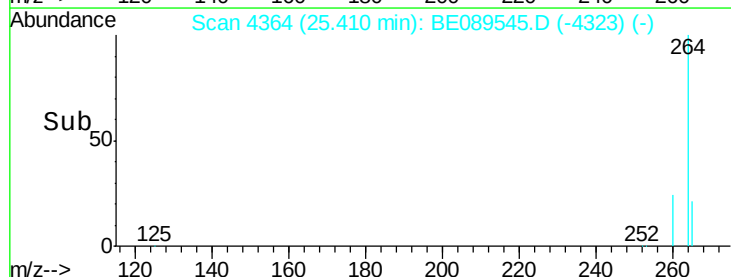
260 23.9 18.7 28.1

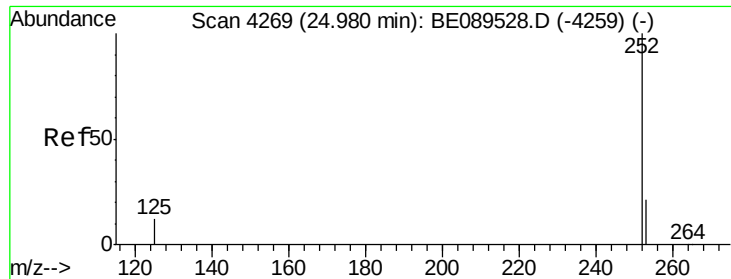
265 21.0 17.5 26.3



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

25.41

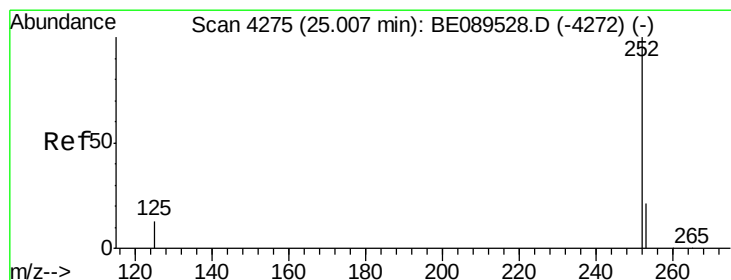
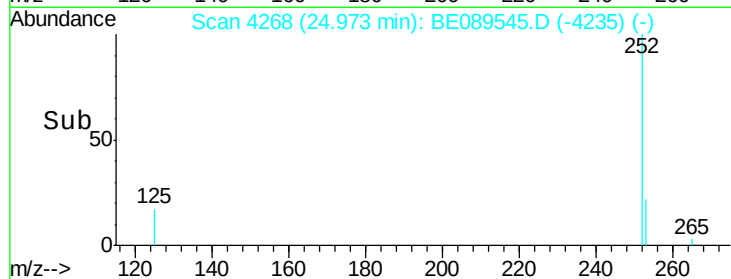
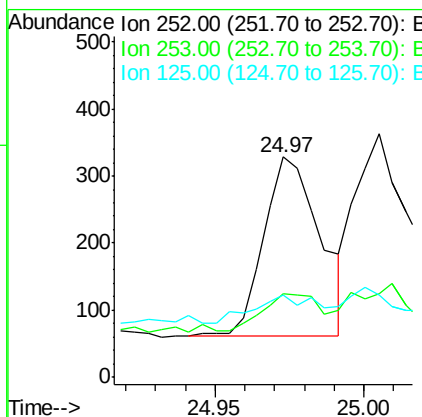
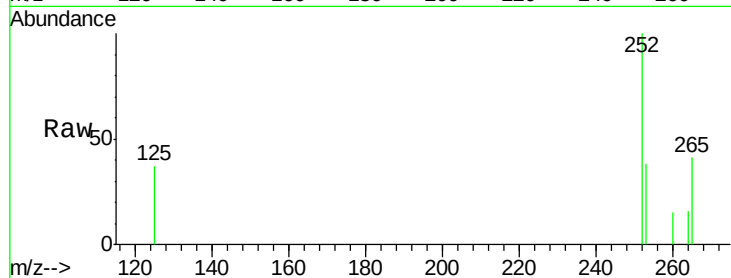




#23
Benzo(b)fluoranthene
Concen: 0.01 ng
RT: 24.97 min Scan# 4268
Delta R.T. -0.01 min
Lab File: BE089545.D
Acq: 7 Feb 2015 4:11

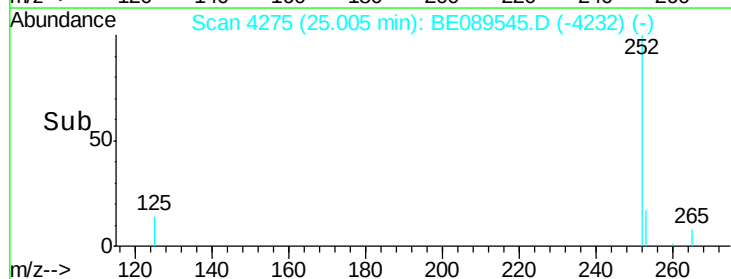
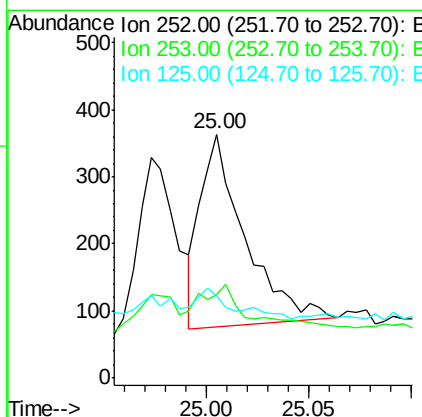
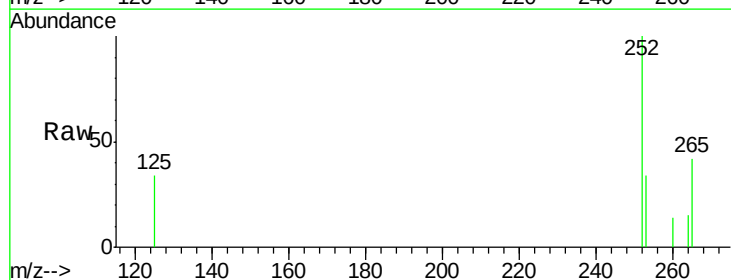
Instrument :
BNA_E
ClientSampleId :
FB

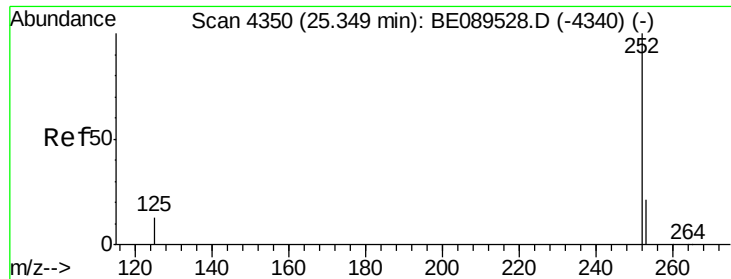
Tgt Ion: 252 Resp: 353
Ion Ratio Lower Upper
252 100
253 38.1 17.4 26.0#
125 37.2 10.4 15.6#



#24
Benzo(k)fluoranthene
Concen: 0.01 ng
RT: 25.00 min Scan# 4275
Delta R.T. -0.00 min
Lab File: BE089545.D
Acq: 7 Feb 2015 4:11

Tgt Ion: 252 Resp: 434
Ion Ratio Lower Upper
252 100
253 34.2 17.2 25.8#
125 33.6 10.6 15.8#





#25

Benzo(a)pyrene

Concen: 0.01 ng

RT: 25.34 min Scan# 4349

Delta R.T. -0.01 min

Lab File: BE089545.D

Acq: 7 Feb 2015 4:11

Instrument :

BNA_E

ClientSampled :

FB

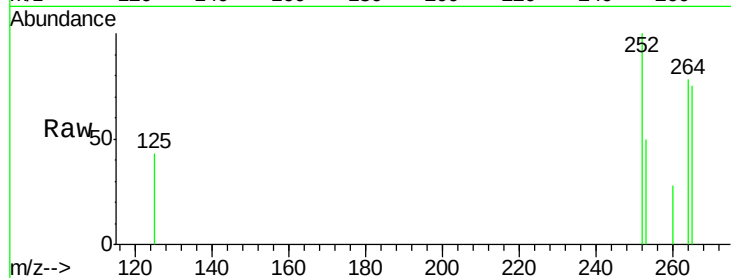
Tgt Ion: 252 Resp: 323

Ion Ratio Lower Upper

252 100

253 49.8 17.8 26.6#

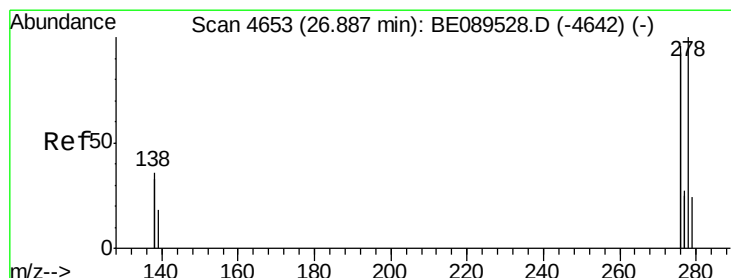
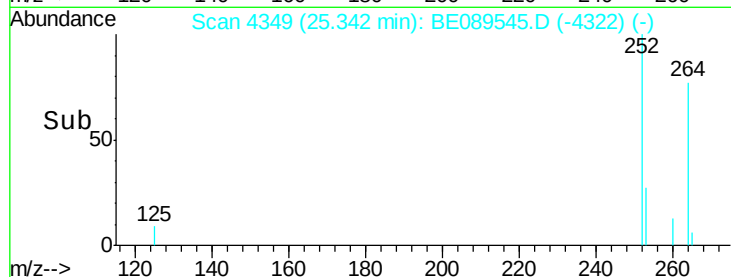
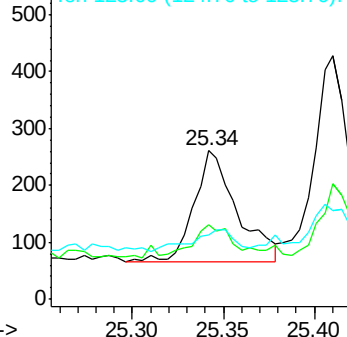
125 43.3 11.4 17.2#



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: 0.01 ng

RT: 26.89 min Scan# 4653

Delta R.T. -0.00 min

Lab File: BE089545.D

Acq: 7 Feb 2015 4:11

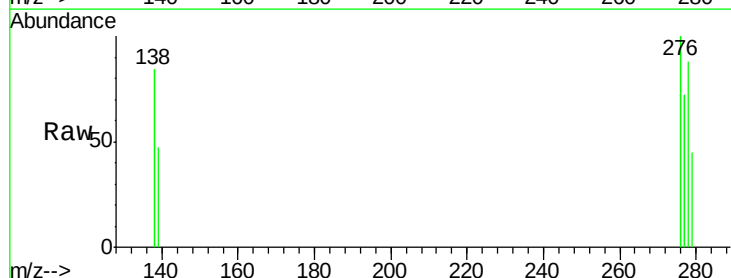
Tgt Ion: 278 Resp: 302

Ion Ratio Lower Upper

278 100

139 53.1 15.7 23.5#

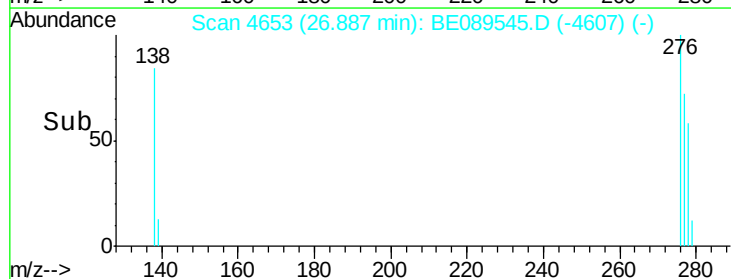
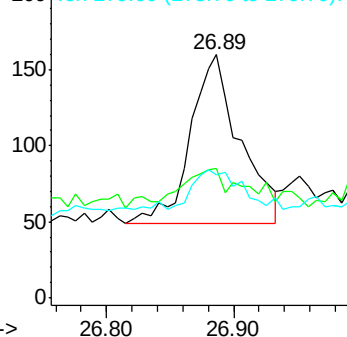
279 50.6 19.5 29.3#

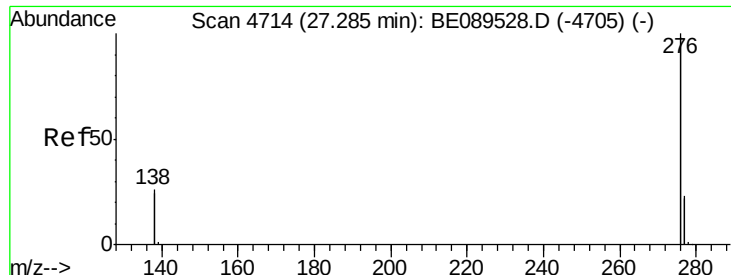


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#27

Benzo(g,h,i)perylene

Concen: 0.02 ng

RT: 27.27 min Scan# 4712

Delta R.T. -0.01 min

Lab File: BE089545.D

Acq: 7 Feb 2015 4:11

Instrument :

BNA_E

ClientSampleId :

FB

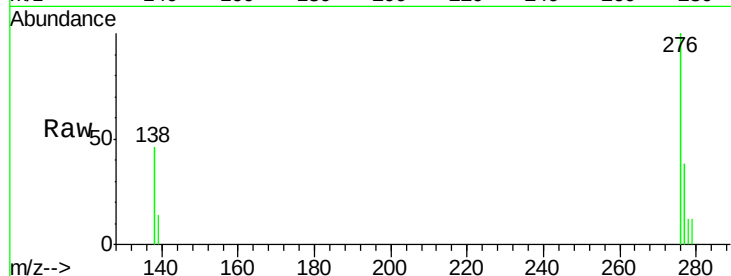
Tgt Ion: 276 Resp: 2557

Ion Ratio Lower Upper

276 100

277 38.3 18.6 27.8#

138 45.9 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

