

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE013015\
 Data File : BE089485.D
 Acq On : 1 Feb 2015 3:11
 Operator : TP/IZ
 Sample : SSTDCCC001
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: Feb 02 04:08:11 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	9.58	152	80597	5.00	ng	0.00
2) Naphthalene-d8	12.49	136	320344	5.00	ng	0.00
6) Acenaphthene-d10	16.69	164	137983	5.00	ng	-0.01
11) Phenanthrene-d10	19.99	188	252576	5.00	ng	0.00
16) Chrysene-d12	23.84	240	211238	5.00	ng	0.00
22) Perylene-d12	25.55	264	172859	5.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
3) Nitrobenzene-d5	10.84	82	24725	1.17	ng	0.00
7) 2-Fluorobiphenyl	15.13	172	37249	1.02	ng	0.00
18) Terphenyl-d14	22.48	244	32626	1.03	ng	0.00

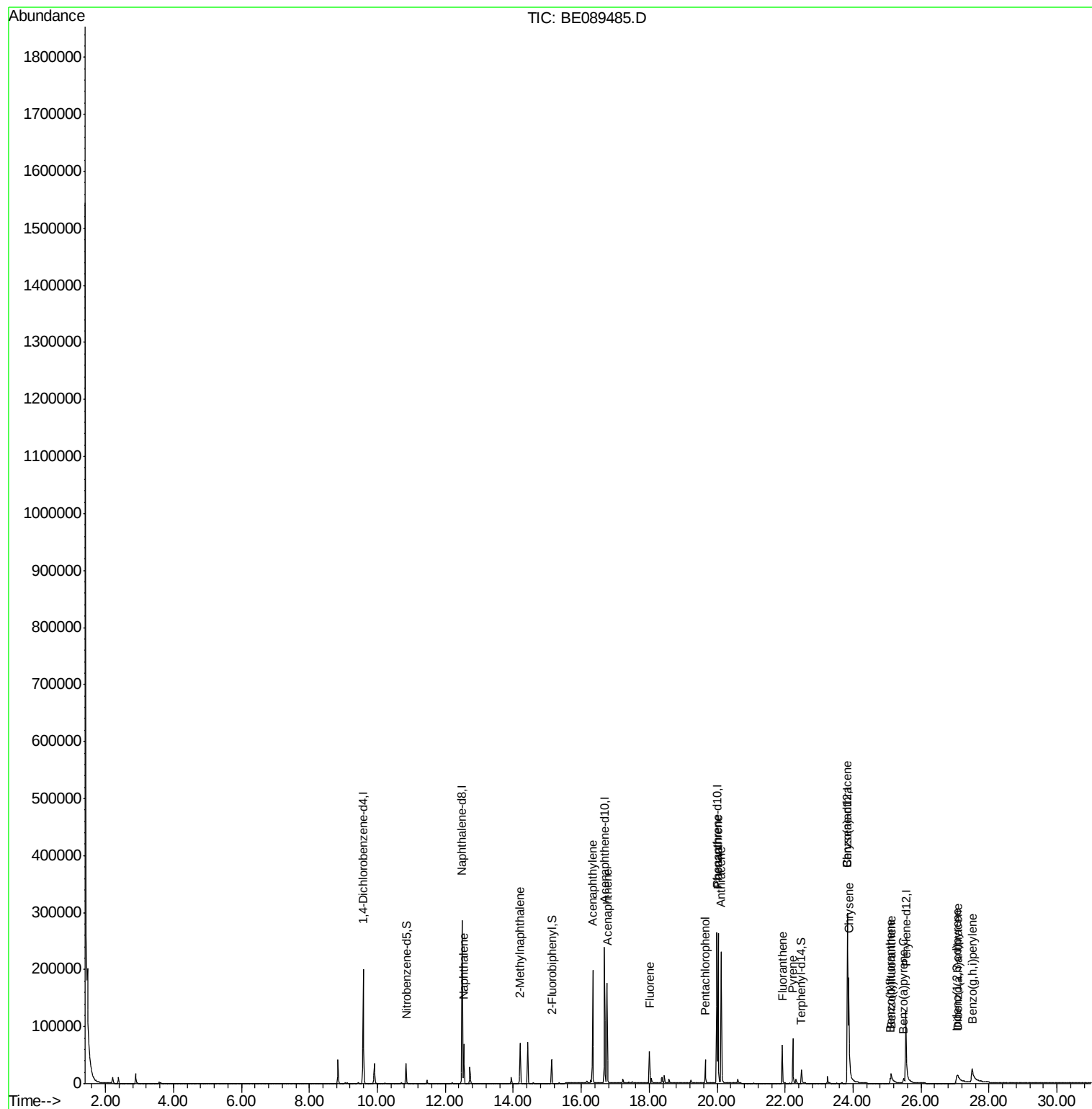
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Naphthalene	12.54	128	74986	1.00	ng	99
5) 2-Methylnaphthalene	14.20	142	44160	0.97	ng	98
8) Acenaphthylene	16.34	152	249442	1.01	ng	100
9) Acenaphthene	16.76	154	38083	1.02	ng	99
10) Fluorene	18.02	166	41630	1.00	ng	99
12) Pentachlorophenol	19.65	266	24126	9.15	ng	93
13) Phenanthrene	20.03	178	250981	1.01	ng	100
14) Anthracene	20.12	178	226330	1.00	ng	99
15) Fluoranthene	21.91	202	54015	1.00	ng	99
17) Pyrene	22.22	202	59197	1.06	ng	99
19) Benzo(a)anthracene	23.83	228	143463	0.81	ng	99
20) Chrysene	23.87	228	217252	1.08	ng	96
21) Indeno(1,2,3-cd)pyrene	27.05	276	67747	0.39	ng	94
23) Benzo(b)fluoranthene	25.09	252	9791	0.49	ng	95
24) Benzo(k)fluoranthene	25.13	252	45813	1.04	ng	98
25) Benzo(a)pyrene	25.48	252	14832	0.58	ng	97
26) Dibenzo(a,h)anthracene	27.08	278	12214	0.47	ng	95
27) Benzo(g,h,i)perylene	27.51	276	91741	0.66	ng	99

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

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 9.58 min Scan# 1794

Delta R.T. -0.00 min

Lab File: BE089485.D

Acq: 1 Feb 2015 3:11

Instrument :

BNA_E

ClientSampleId :

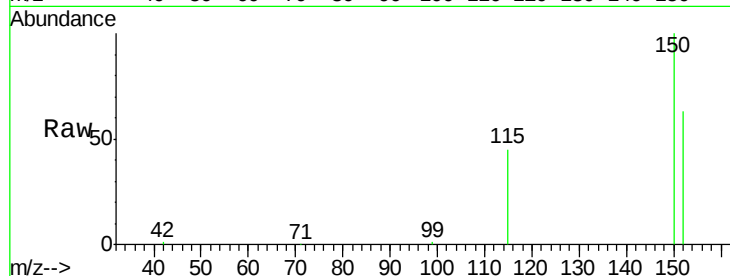
Tgt Ion:152 Resp: 80597

Ion Ratio Lower Upper

152 100

150 158.3 127.2 190.8

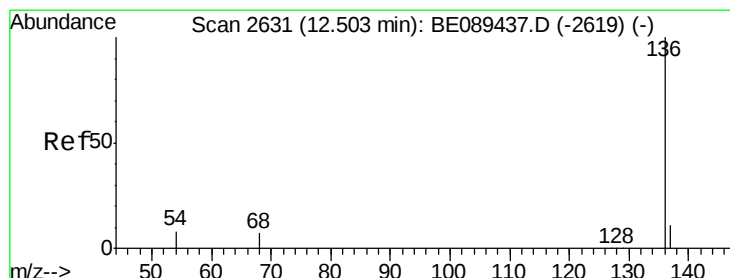
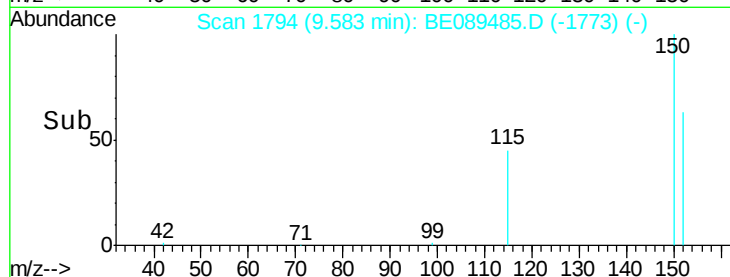
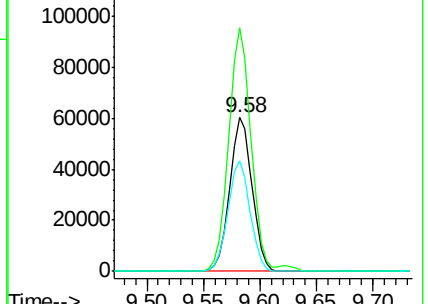
115 72.0 57.5 86.3



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: 12.49 min Scan# 2629

Delta R.T. -0.01 min

Lab File: BE089485.D

Acq: 1 Feb 2015 3:11

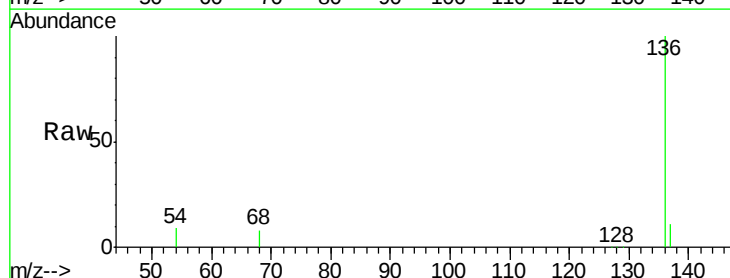
Tgt Ion:136 Resp: 320344

Ion Ratio Lower Upper

136 100

137 10.8 8.7 13.1

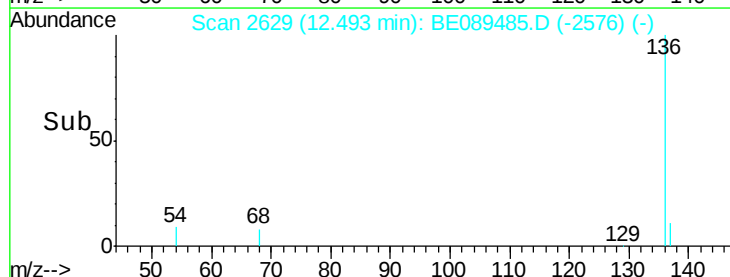
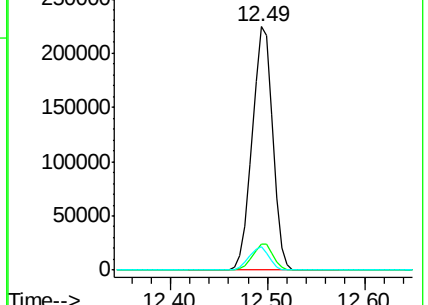
54 9.4 6.6 10.0



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: 1.17 ng

RT: 10.84 min Scan# 2222

Delta R.T. -0.01 min

Lab File: BE089485.D

Acq: 1 Feb 2015 3:11

Instrument :

BNA_E

ClientSampleId :

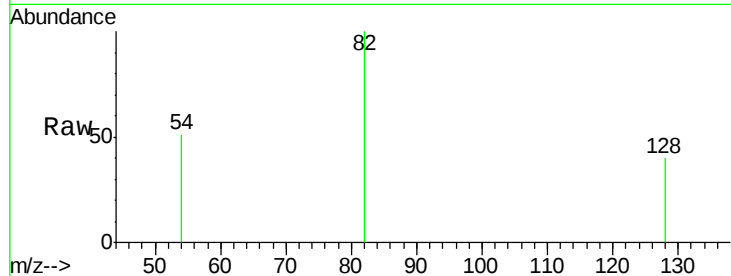
Tgt Ion: 82 Resp: 24725

Ion Ratio Lower Upper

82 100

128 40.2 31.2 46.8

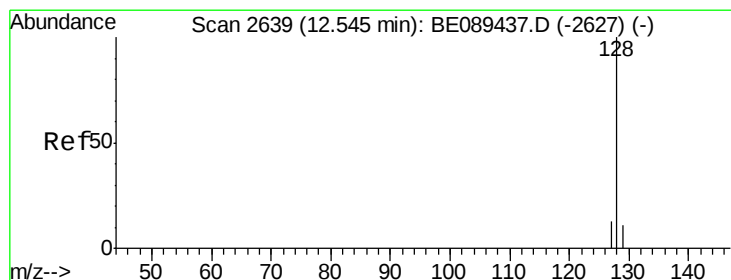
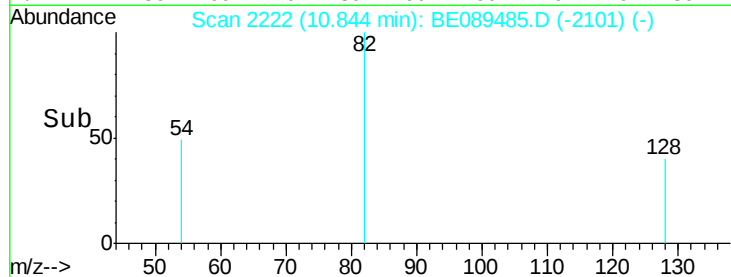
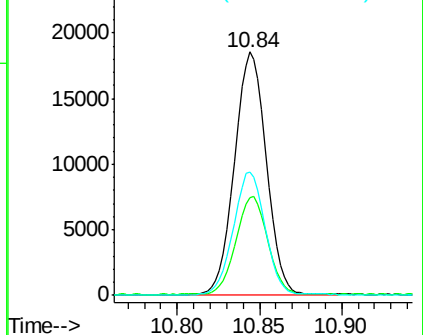
54 50.6 41.9 62.9



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: 1.00 ng

RT: 12.54 min Scan# 2638

Delta R.T. -0.00 min

Lab File: BE089485.D

Acq: 1 Feb 2015 3:11

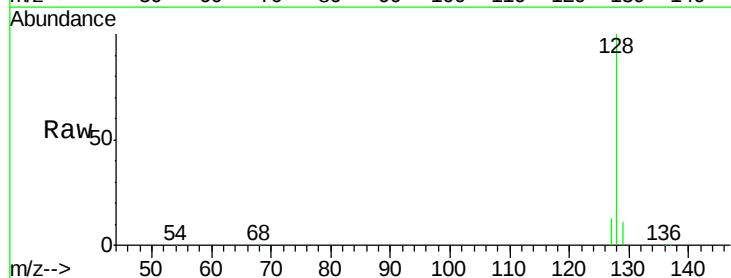
Tgt Ion: 128 Resp: 74986

Ion Ratio Lower Upper

128 100

129 10.7 8.8 13.2

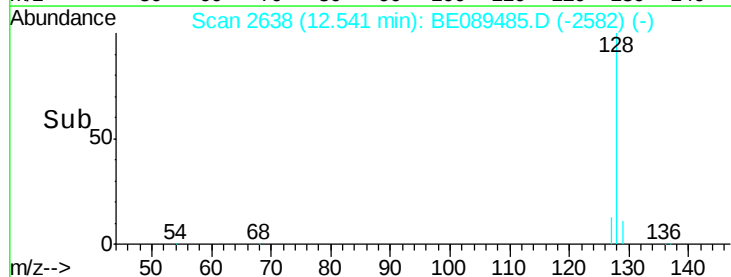
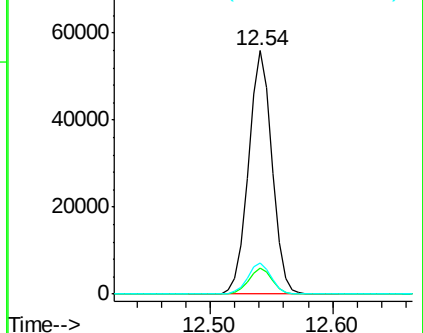
127 12.7 10.6 16.0



Abundance Ion 128.00 (127.70 to 128.70): BE0

Ion 129.00 (128.70 to 129.70): BE0

Ion 127.00 (126.70 to 127.70): BE0





#5

2-Methylnaphthalene

Concen: 0.97 ng

RT: 14.20 min Scan# 2976

Delta R.T. -0.01 min

Lab File: BE089485.D

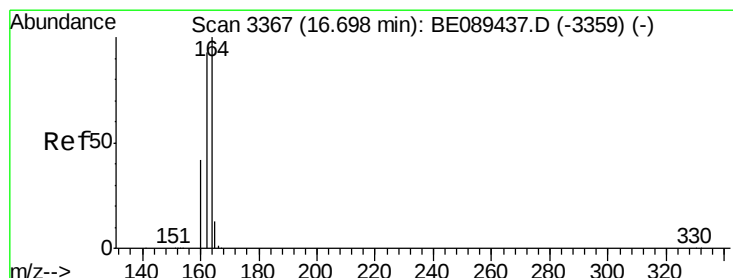
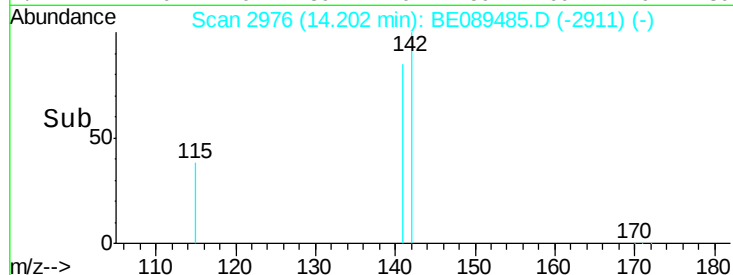
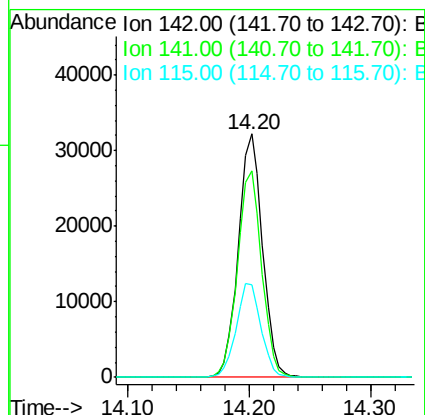
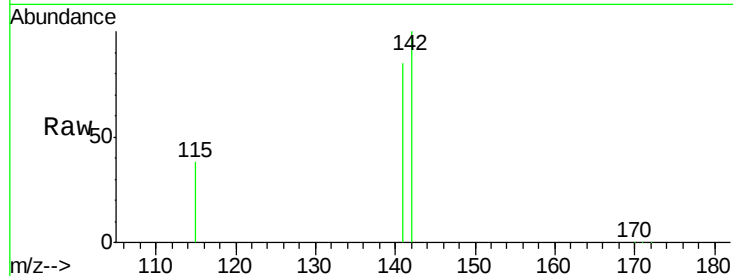
Acq: 1 Feb 2015 3:11

Instrument :

BNA_E

ClientSampleId :

Tgt Ion:	142	Resp:	44160
Ion Ratio	Lower	Upper	
142	100		
141	84.8	66.1	99.1
115	38.2	29.9	44.9



#6

Acenaphthene-d10

Concen: 5.00 ng

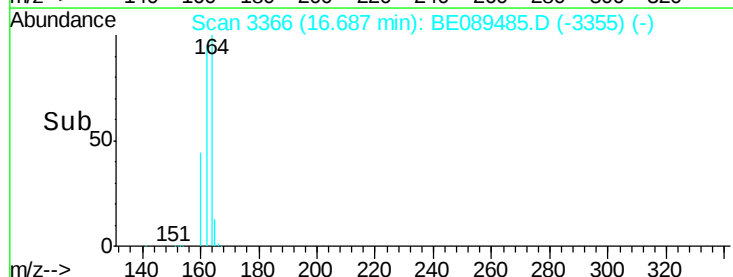
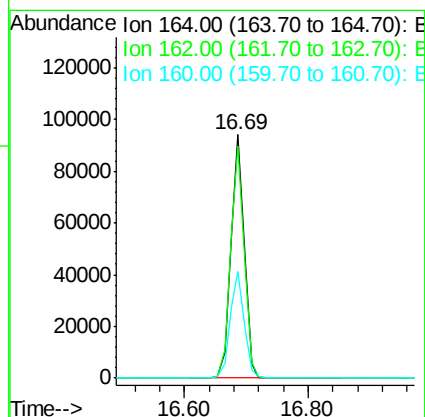
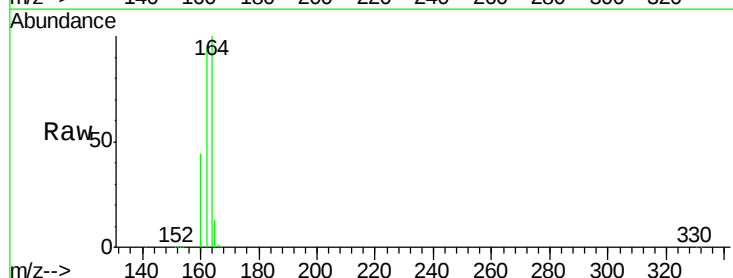
RT: 16.69 min Scan# 3366

Delta R.T. -0.01 min

Lab File: BE089485.D

Acq: 1 Feb 2015 3:11

Tgt Ion:	164	Resp:	137983
Ion Ratio	Lower	Upper	
164	100		
162	95.3	74.7	112.1
160	43.7	33.4	50.0





#7

2-Fluorobiphenyl

Concen: 1.02 ng

RT: 15.13 min Scan# 3180

Delta R.T. -0.01 min

Lab File: BE089485.D

Acq: 1 Feb 2015 3:11

Instrument :

BNA_E

ClientSampleId :

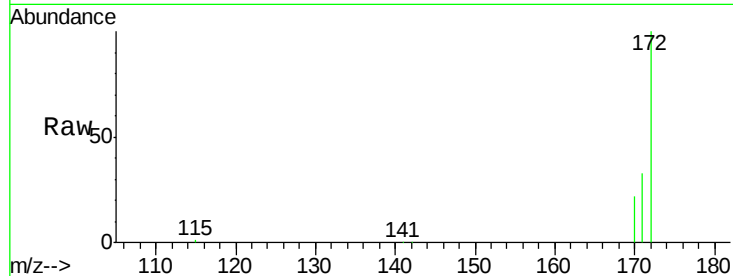
Tgt Ion:172 Resp: 37249

Ion Ratio Lower Upper

172 100

171 33.3 26.2 39.4

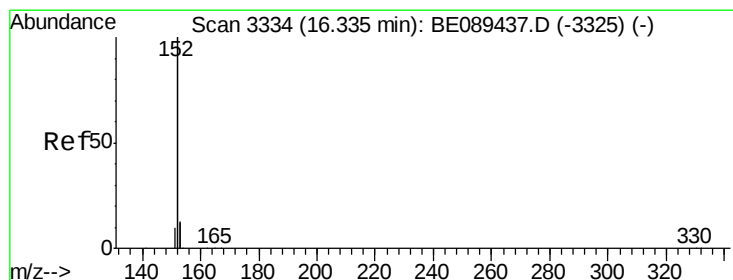
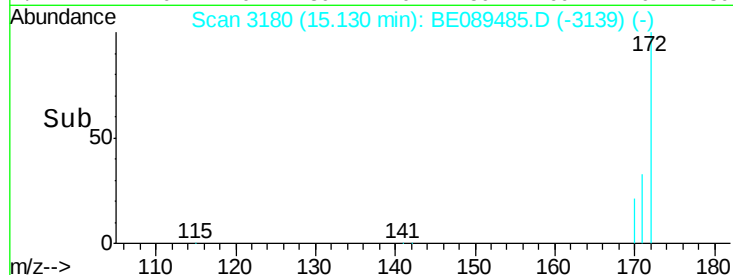
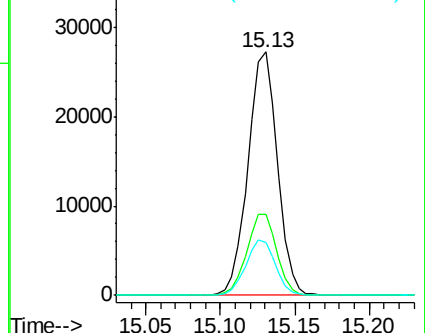
170 21.6 16.5 24.7



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: 1.01 ng

RT: 16.34 min Scan# 3334

Delta R.T. 0.00 min

Lab File: BE089485.D

Acq: 1 Feb 2015 3:11

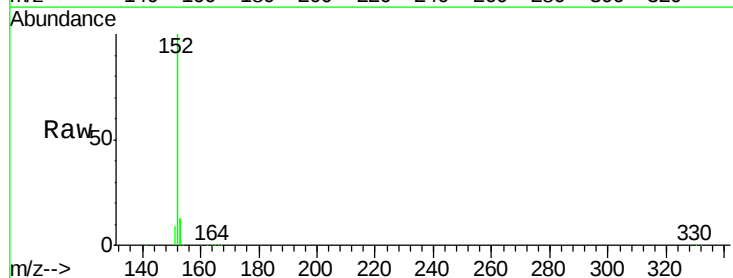
Tgt Ion:152 Resp: 249442

Ion Ratio Lower Upper

152 100

151 4.8 3.9 5.9

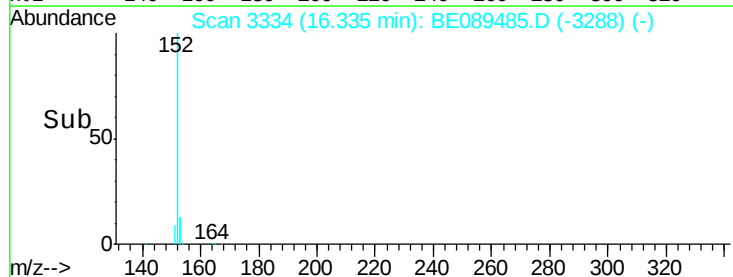
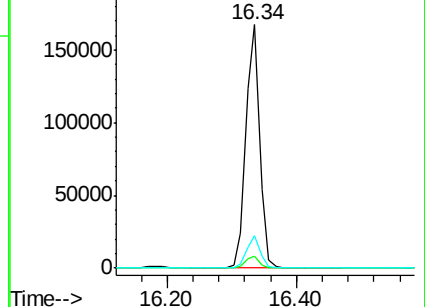
153 12.8 10.3 15.5



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: 1.02 ng

RT: 16.76 min Scan# 3373

Delta R.T. 0.00 min

Lab File: BE089485.D

Acq: 1 Feb 2015 3:11

Instrument :

BNA_E

ClientSampleId :

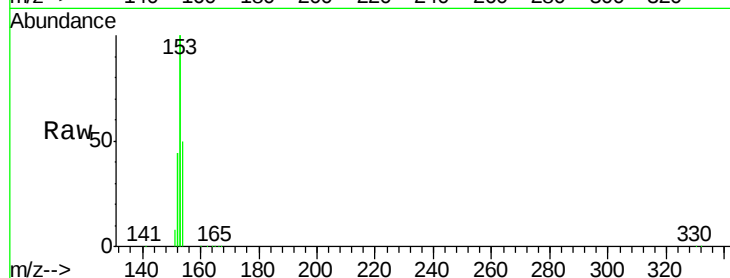
Tgt Ion:154 Resp: 38083

Ion Ratio Lower Upper

154 100

153 425.6 342.3 513.5

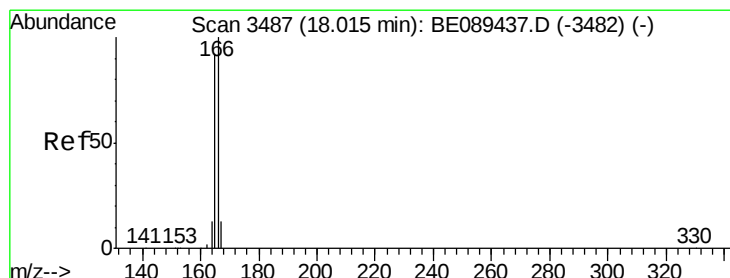
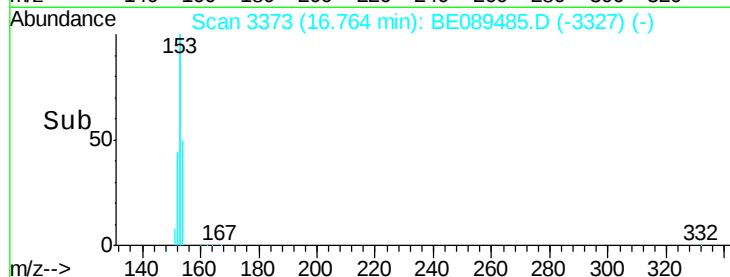
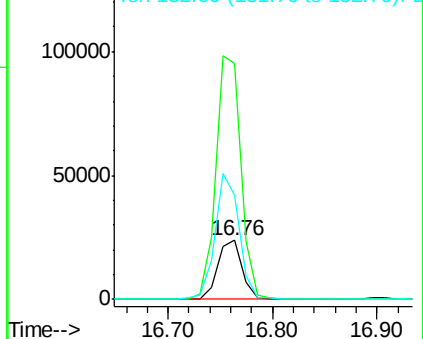
152 206.9 165.5 248.3



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: 1.00 ng

RT: 18.02 min Scan# 3487

Delta R.T. 0.00 min

Lab File: BE089485.D

Acq: 1 Feb 2015 3:11

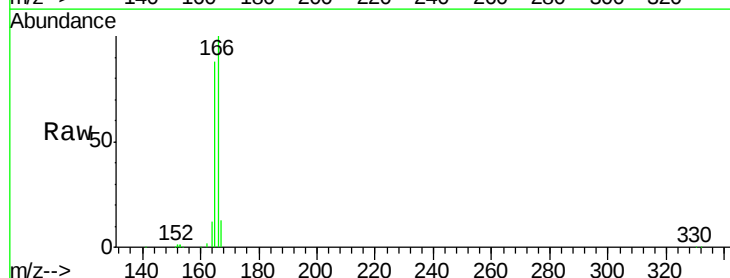
Tgt Ion:166 Resp: 41630

Ion Ratio Lower Upper

166 100

165 92.0 74.4 111.6

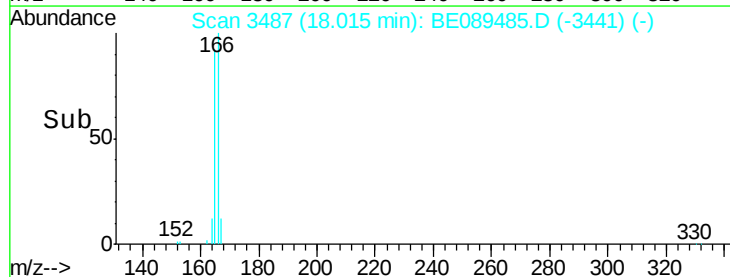
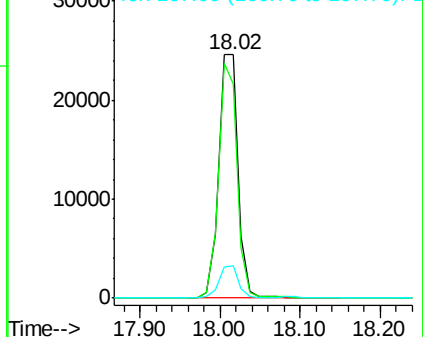
167 13.0 10.6 15.8

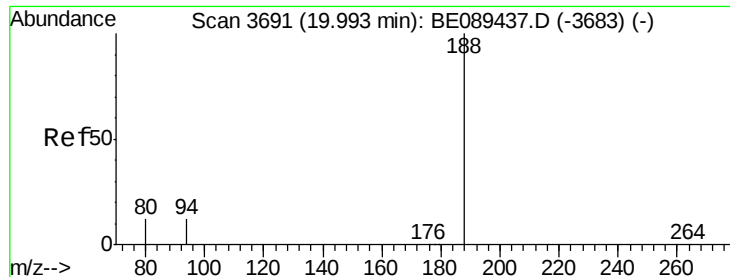


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

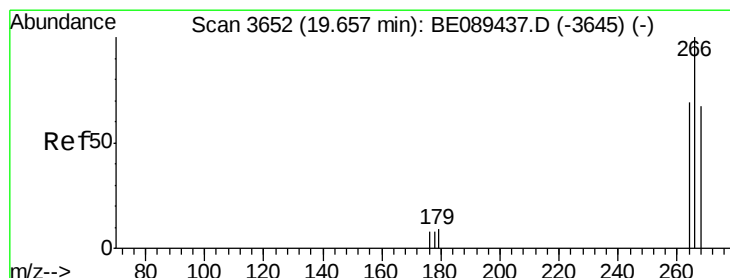
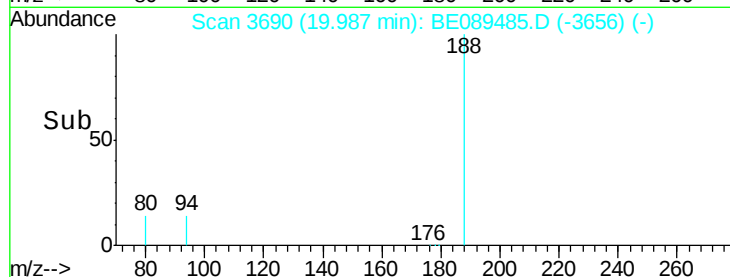
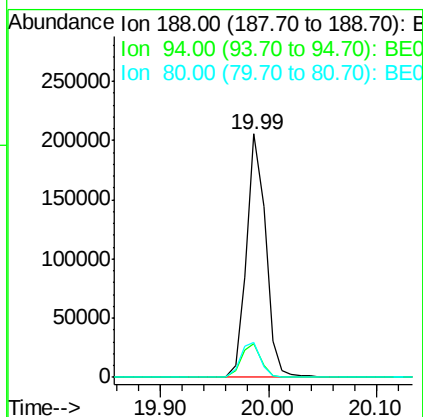
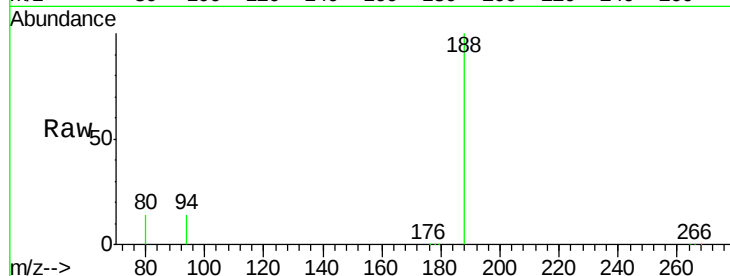




#11
Phenanthrene-d10
Concen: 5.00 ng
RT: 19.99 min Scan# 3690
Delta R.T. -0.01 min
Lab File: BE089485.D
Acq: 1 Feb 2015 3:11

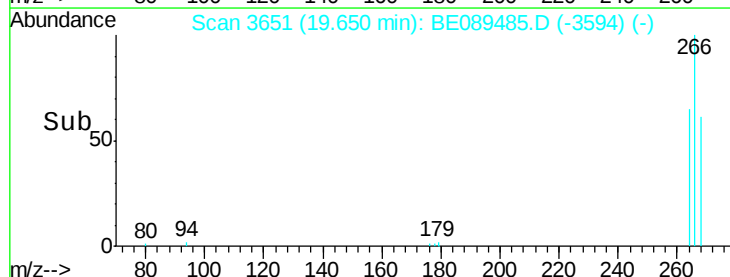
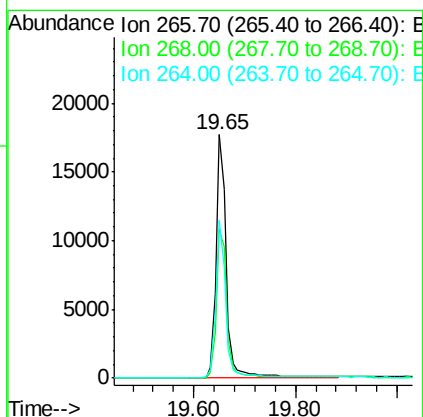
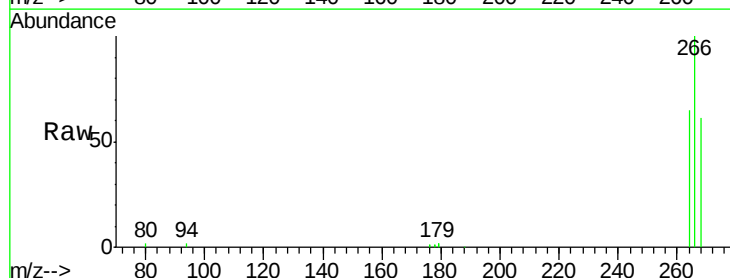
Instrument :
BNA_E
ClientSampled :

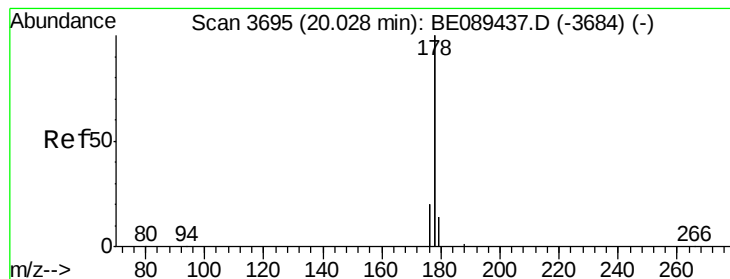
Tgt Ion:188 Resp: 252576
Ion Ratio Lower Upper
188 100
94 13.8 9.4 14.0
80 14.1 9.3 13.9#



#12
Pentachlorophenol
Concen: 9.15 ng
RT: 19.65 min Scan# 3651
Delta R.T. -0.01 min
Lab File: BE089485.D
Acq: 1 Feb 2015 3:11

Tgt Ion:266 Resp: 24126
Ion Ratio Lower Upper
266 100
268 61.3 54.2 81.4
264 64.6 56.2 84.2





#13

Phenanthrene

Concen: 1.01 ng

RT: 20.03 min Scan# 3695

Delta R.T. 0.00 min

Lab File: BE089485.D

Acq: 1 Feb 2015 3:11

Instrument :

BNA_E

ClientSampleId :

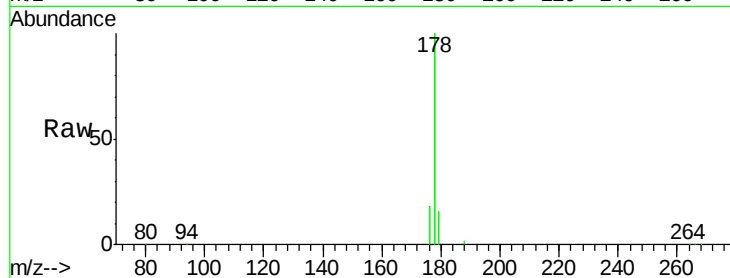
Tgt Ion:178 Resp: 250981

Ion Ratio Lower Upper

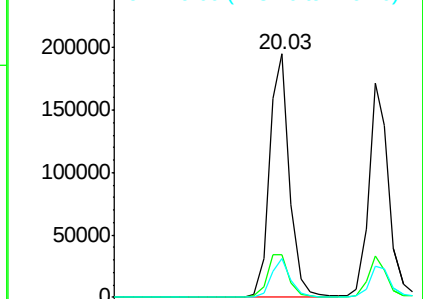
178 100

176 18.9 15.1 22.7

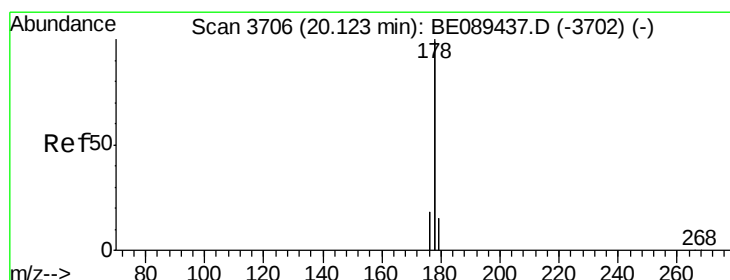
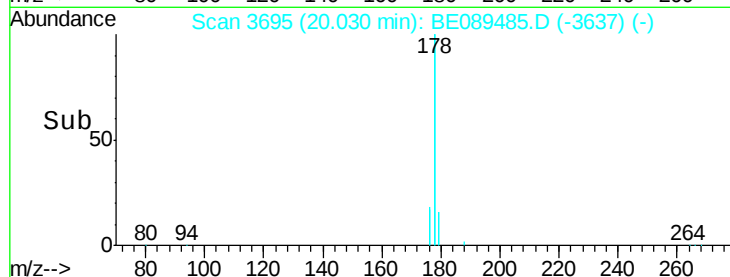
179 15.3 12.3 18.5



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



Time--> 19.90 20.00 20.10



#14

Anthracene

Concen: 1.00 ng

RT: 20.12 min Scan# 3705

Delta R.T. -0.01 min

Lab File: BE089485.D

Acq: 1 Feb 2015 3:11

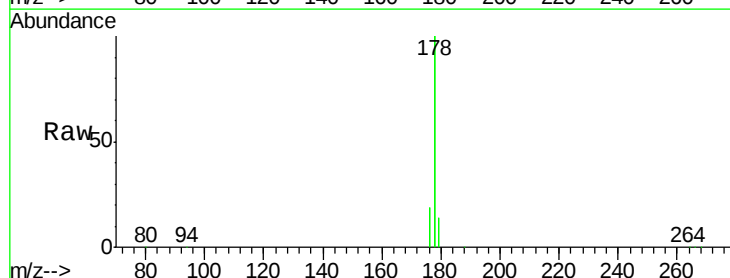
Tgt Ion:178 Resp: 226330

Ion Ratio Lower Upper

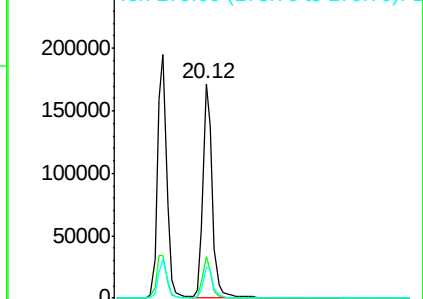
178 100

176 17.9 14.6 22.0

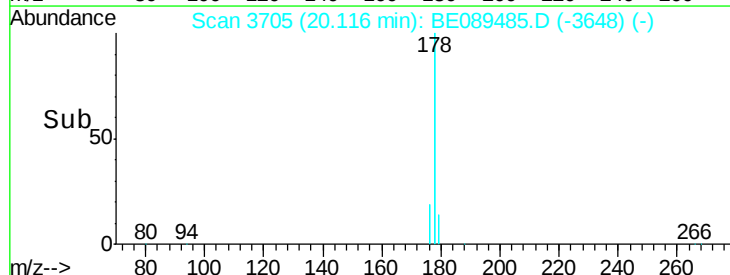
179 15.4 12.2 18.2

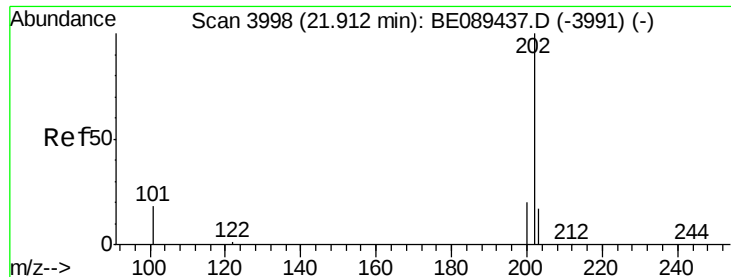


Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E



Time--> 20.00 20.20 20.40

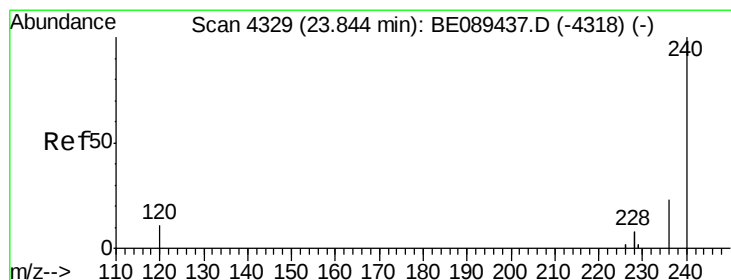
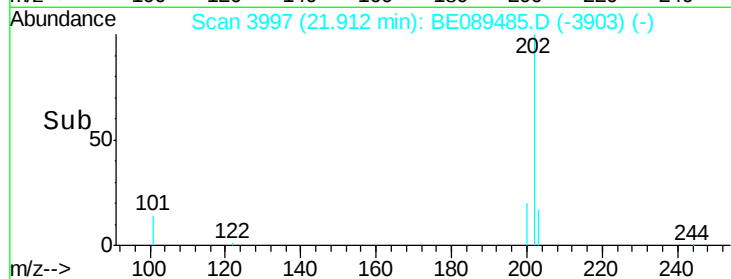
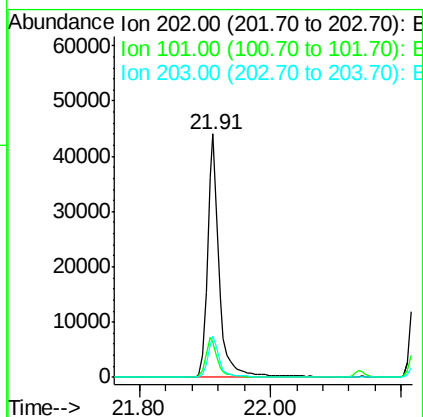
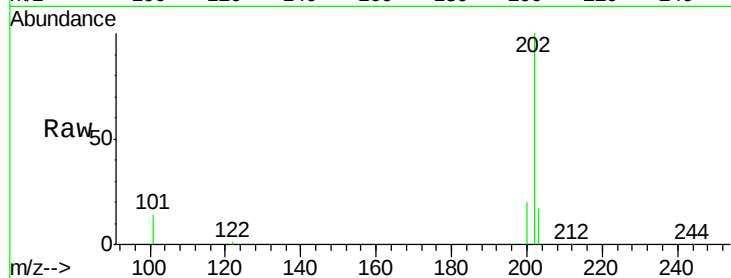




#15
 Fluoranthene
 Concen: 1.00 ng
 RT: 21.91 min Scan# 3997
 Delta R.T. 0.00 min
 Lab File: BE089485.D
 Acq: 1 Feb 2015 3:11

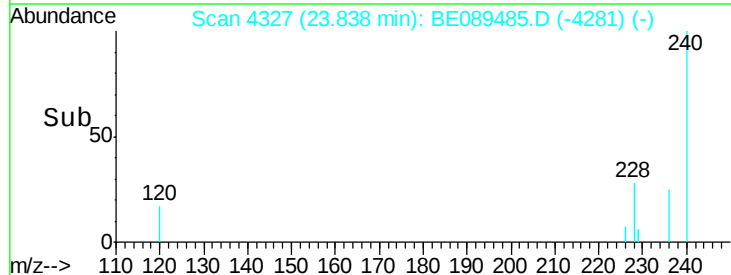
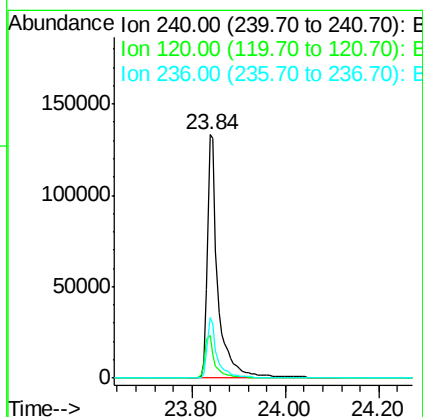
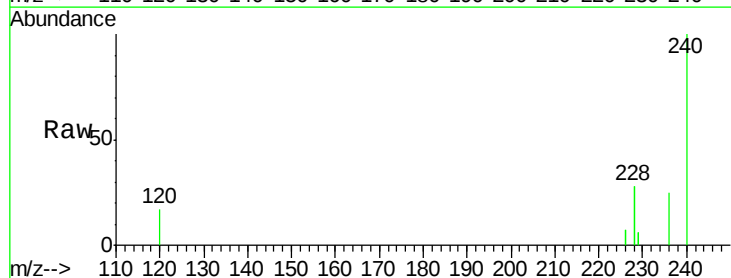
Instrument :
 BNA_E
 ClientSampleId :

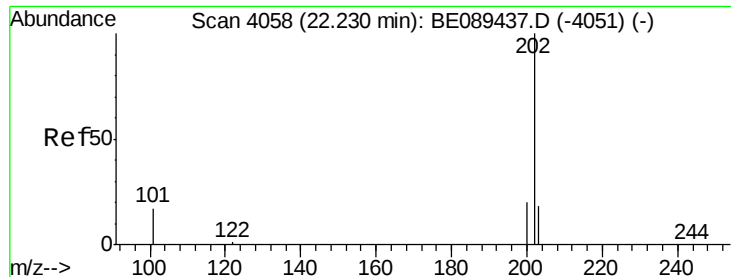
Tgt Ion: 202 Resp: 54015
 Ion Ratio Lower Upper
 202 100
 101 16.6 13.6 20.4
 203 16.6 13.8 20.6



#16
 Chrysene-d12
 Concen: 5.00 ng
 RT: 23.84 min Scan# 4327
 Delta R.T. -0.01 min
 Lab File: BE089485.D
 Acq: 1 Feb 2015 3:11

Tgt Ion: 240 Resp: 211238
 Ion Ratio Lower Upper
 240 100
 120 17.5 8.6 13.0#
 236 25.0 18.7 28.1

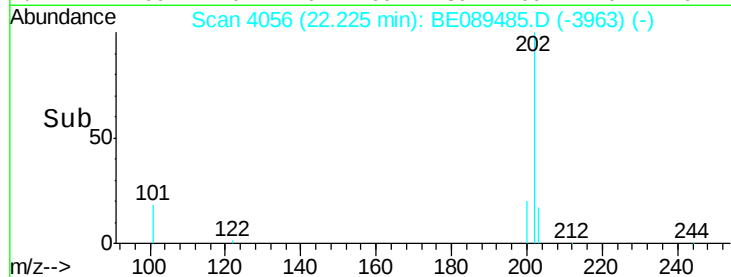
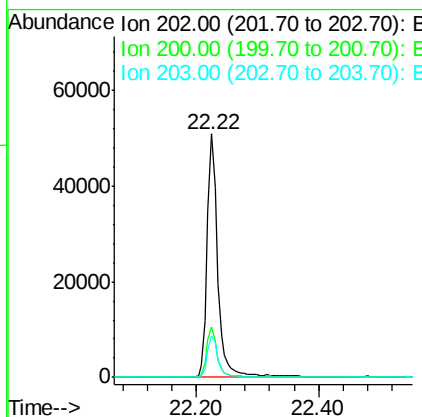
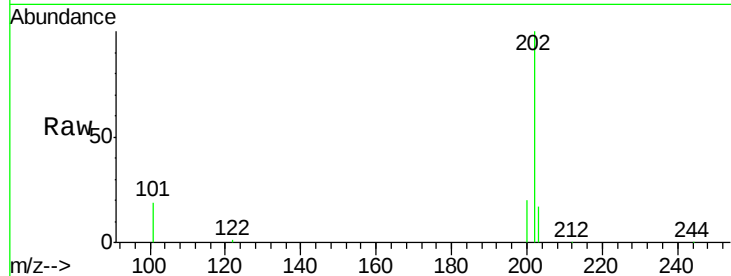




#17
 Pyrene
 Concen: 1.06 ng
 RT: 22.22 min Scan# 4056
 Delta R.T. -0.01 min
 Lab File: BE089485.D
 Acq: 1 Feb 2015 3:11

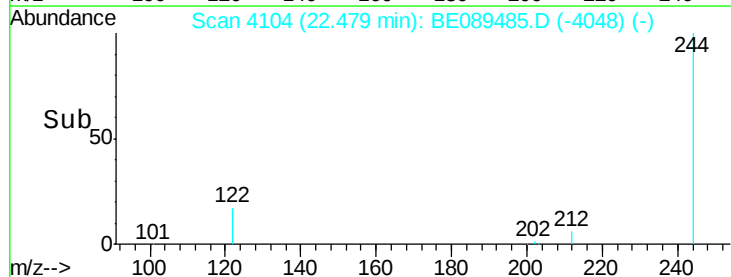
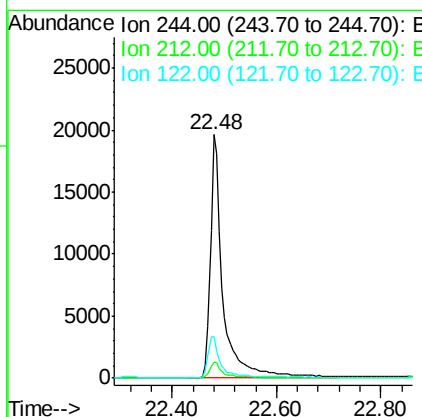
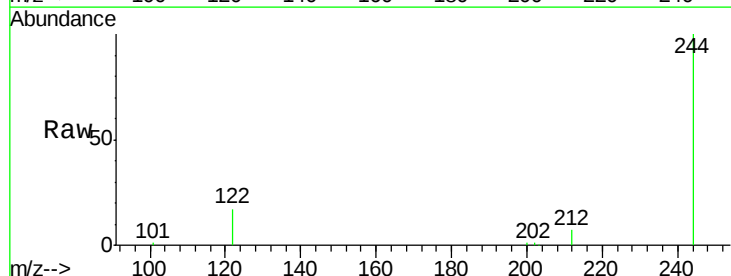
Instrument :
 BNA_E
 ClientSampleId :

Tgt Ion:202 Resp: 59197
 Ion Ratio Lower Upper
 202 100
 200 20.1 16.2 24.4
 203 16.9 13.8 20.8



#18
 Terphenyl-d14
 Concen: 1.03 ng
 RT: 22.48 min Scan# 4104
 Delta R.T. -0.01 min
 Lab File: BE089485.D
 Acq: 1 Feb 2015 3:11

Tgt Ion:244 Resp: 32626
 Ion Ratio Lower Upper
 244 100
 212 6.7 5.0 7.6
 122 16.9 10.2 15.4#





#19

Benzo(a)anthracene

Concen: 0.81 ng

RT: 23.83 min Scan# 4326

Delta R.T. 0.00 min

Lab File: BE089485.D

Acq: 1 Feb 2015 3:11

Instrument :

BNA_E

ClientSampleId :

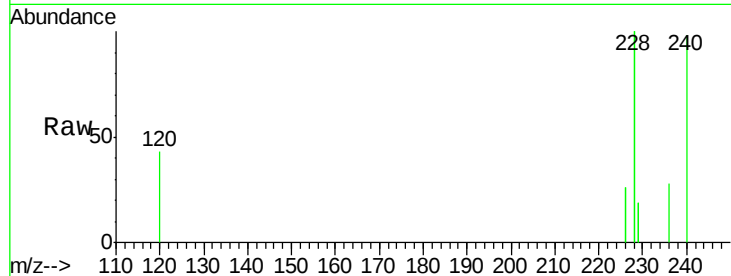
Tgt Ion:228 Resp: 143463

Ion Ratio Lower Upper

228 100

226 25.6 20.0 30.0

229 19.3 16.0 24.0

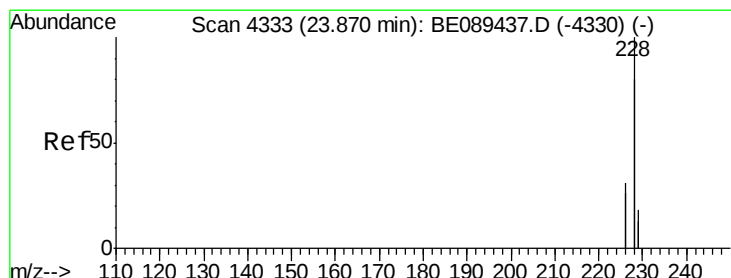
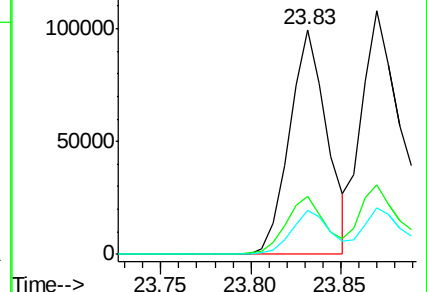
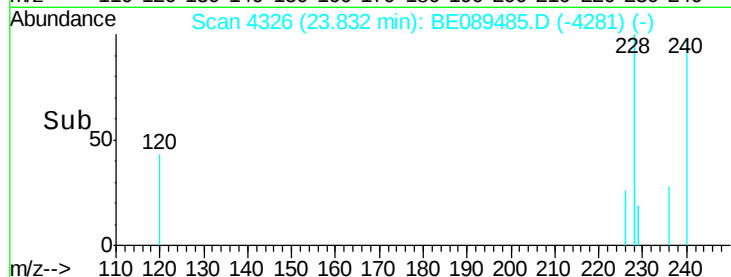


Abundance

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: 1.08 ng

RT: 23.87 min Scan# 4332

Delta R.T. 0.00 min

Lab File: BE089485.D

Acq: 1 Feb 2015 3:11

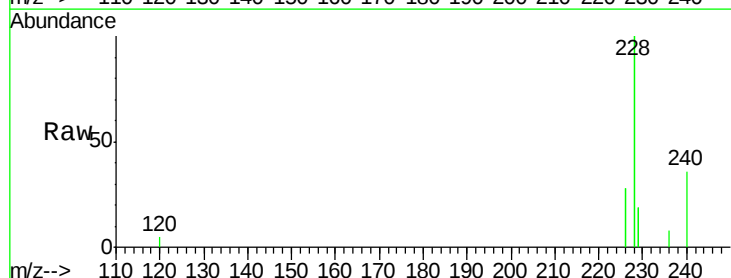
Tgt Ion:228 Resp: 217252

Ion Ratio Lower Upper

228 100

226 28.4 24.5 36.7

229 19.1 14.1 21.1

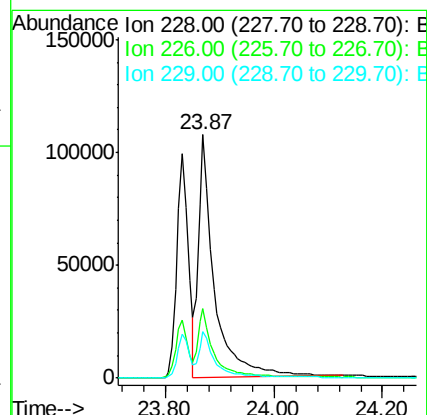
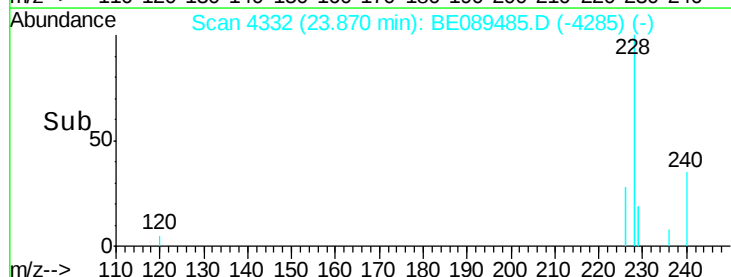


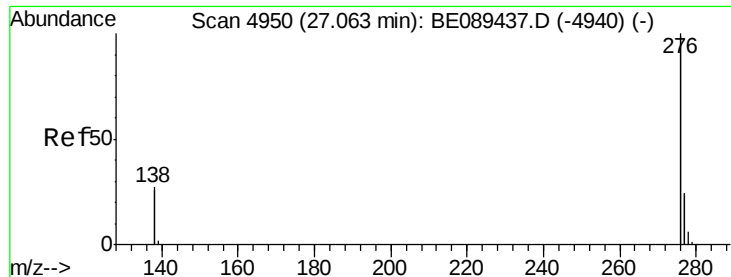
Abundance

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: 0.39 ng

RT: 27.05 min Scan# 4947

Delta R.T. -0.01 min

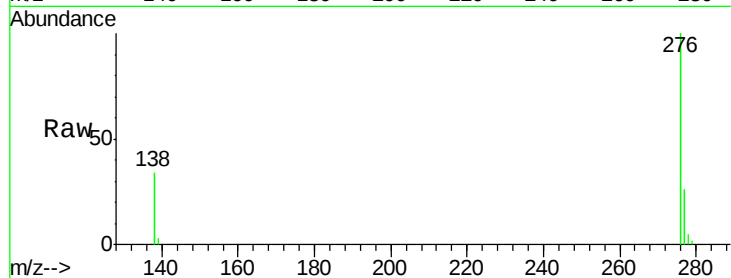
Lab File: BE089485.D

Acq: 1 Feb 2015 3:11

Instrument :

BNA_E

ClientSampleId :



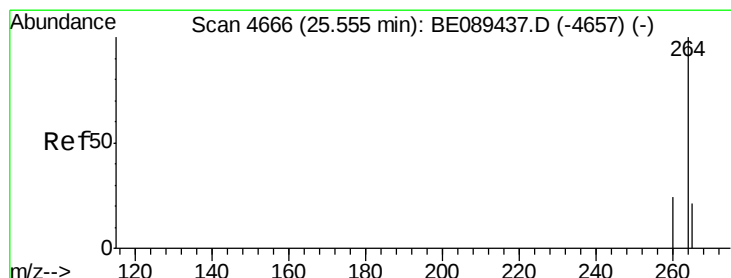
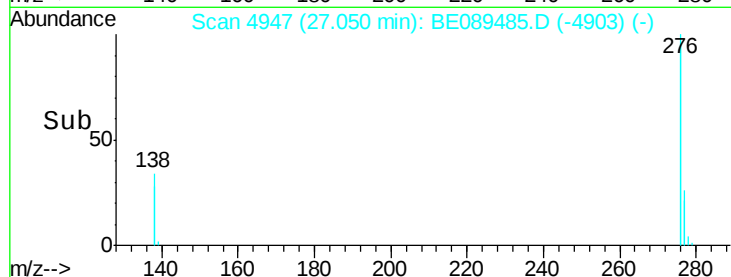
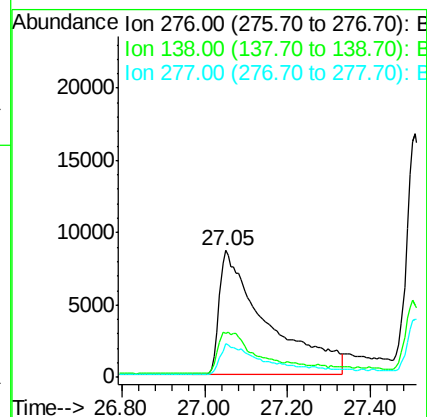
Tgt Ion:276 Resp: 67747

Ion Ratio Lower Upper

276 100

138 29.3 25.4 38.0

277 20.4 19.8 29.6



#22

Perylene-d12

Concen: 5.00 ng

RT: 25.55 min Scan# 4665

Delta R.T. 0.00 min

Lab File: BE089485.D

Acq: 1 Feb 2015 3:11

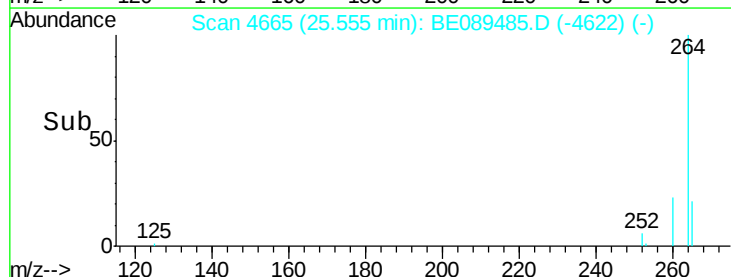
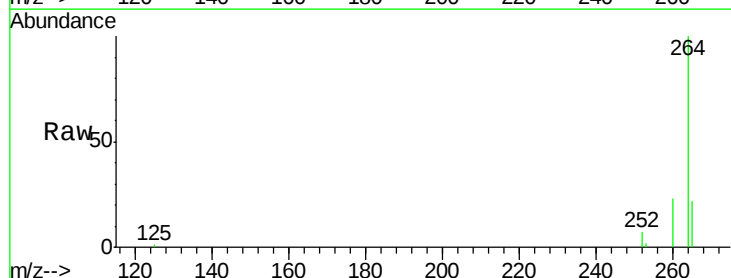
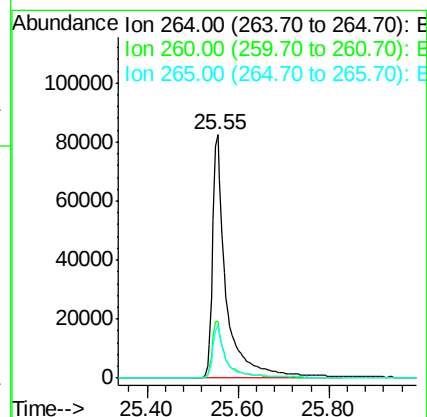
Tgt Ion:264 Resp: 172859

Ion Ratio Lower Upper

264 100

260 23.4 19.4 29.0

265 21.5 17.0 25.6





#23

Benzo(b)fluoranthene

Concen: 0.49 ng

RT: 25.09 min Scan# 4564

Delta R.T. -0.00 min

Lab File: BE089485.D

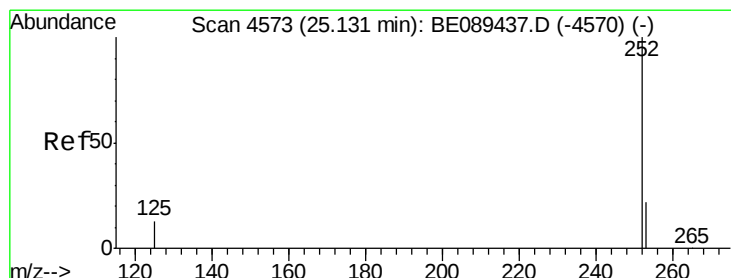
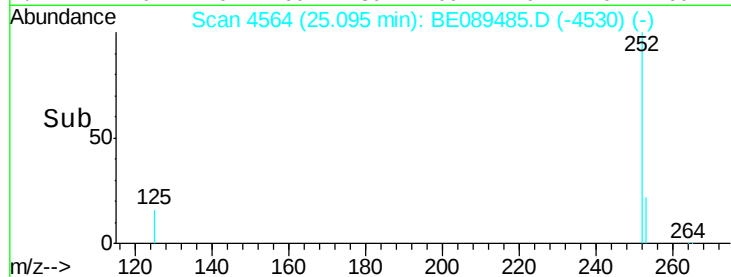
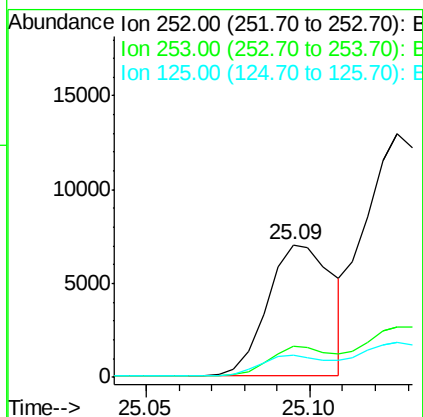
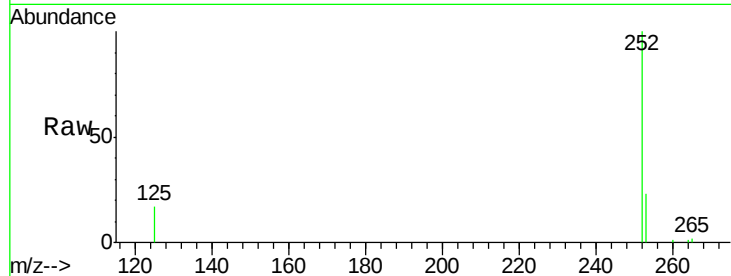
Acq: 1 Feb 2015 3:11

Instrument :

BNA_E

ClientSampleId :

Tgt Ion:	252	Resp:	9791
Ion Ratio	Lower	Upper	
252	100		
253	23.0	17.0	25.6
125	16.9	11.4	17.0



#24

Benzo(k)fluoranthene

Concen: 1.04 ng

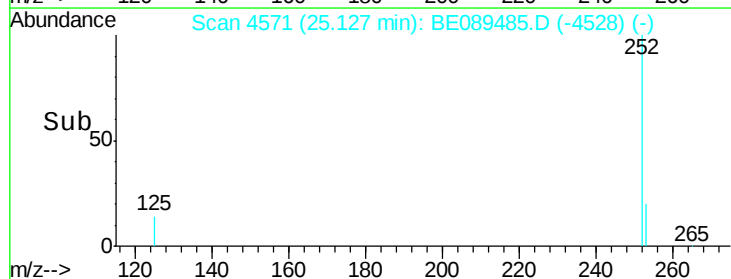
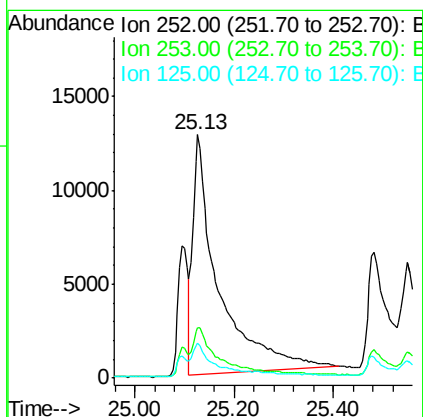
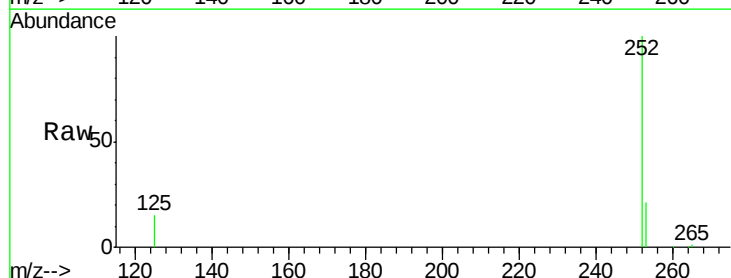
RT: 25.13 min Scan# 4571

Delta R.T. -0.00 min

Lab File: BE089485.D

Acq: 1 Feb 2015 3:11

Tgt Ion:	252	Resp:	45813
Ion Ratio	Lower	Upper	
252	100		
253	20.7	17.4	26.2
125	14.6	10.9	16.3





#25

Benzo(a)pyrene

Concen: 0.58 ng

RT: 25.48 min Scan# 4649

Delta R.T. -0.00 min

Lab File: BE089485.D

Acq: 1 Feb 2015 3:11

Instrument :

BNA_E

ClientSampleId :

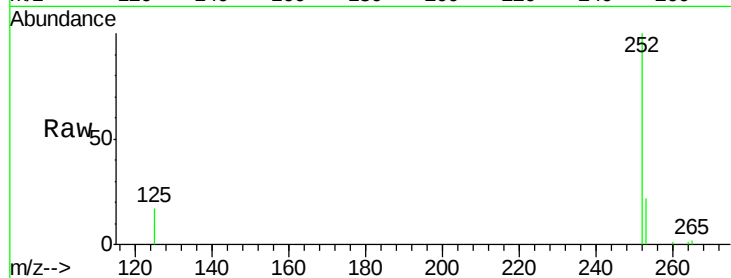
Tgt Ion:252 Resp: 14832

Ion Ratio Lower Upper

252 100

253 22.3 17.3 25.9

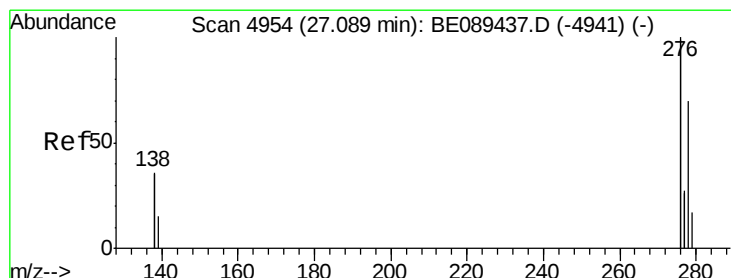
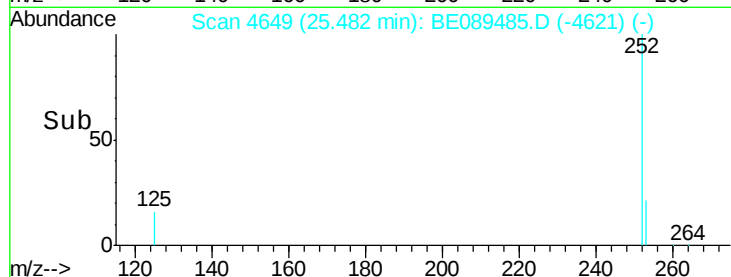
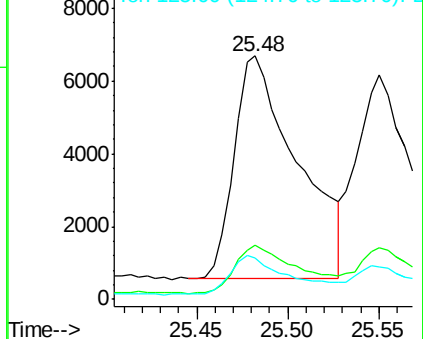
125 17.1 12.0 18.0



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: 0.47 ng

RT: 27.08 min Scan# 4952

Delta R.T. -0.01 min

Lab File: BE089485.D

Acq: 1 Feb 2015 3:11

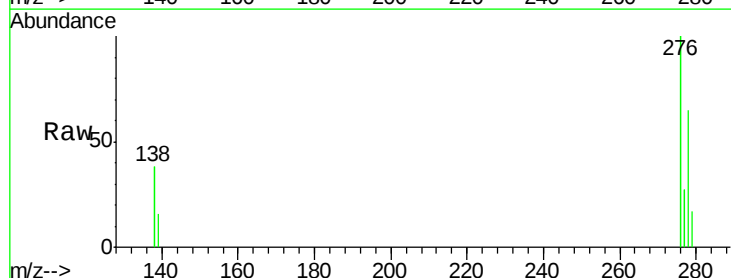
Tgt Ion:278 Resp: 12214

Ion Ratio Lower Upper

278 100

139 24.6 17.0 25.4

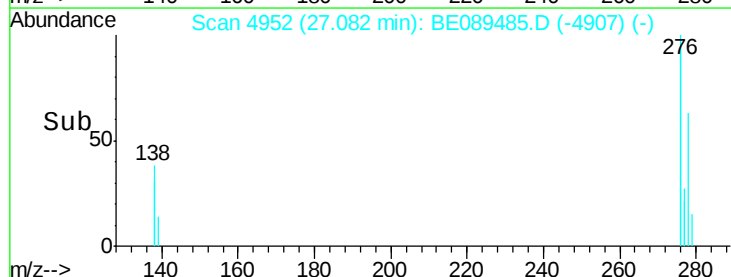
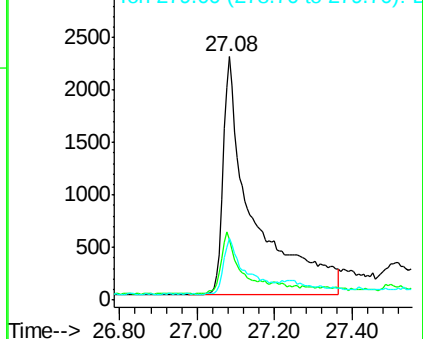
279 25.6 19.1 28.7

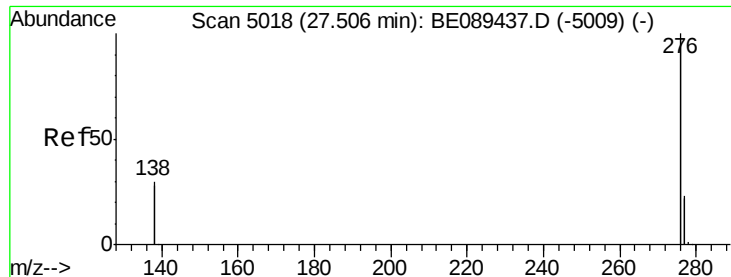


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E

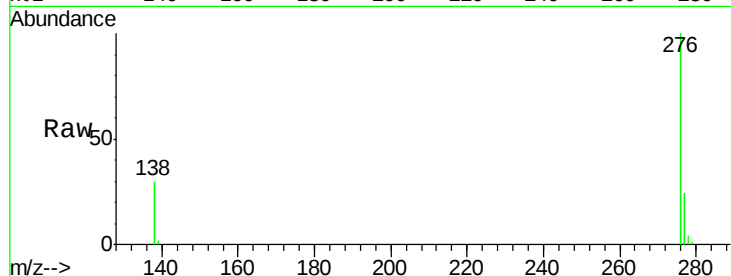




#27
 Benzo(g,h,i)perylene
 Concen: 0.66 ng
 RT: 27.51 min Scan# 5017
 Delta R.T. -0.00 min
 Lab File: BE089485.D
 Acq: 1 Feb 2015 3:11

Instrument :
 BNA_E
 ClientSampleId :

Tgt Ion: 276 Resp: 91741
 Ion Ratio Lower Upper
 276 100
 277 23.9 18.4 27.6
 138 29.8 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

