

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE013015\
 Data File : BE089458.D
 Acq On : 31 Jan 2015 5:45
 Operator : TP/IZ
 Sample : MDL-01-W
 Misc : MDL-WATER-0.1/0.2
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: Feb 02 00:31:57 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	65380	5.00	ng	0.00
2) Naphthalene-d8	12.50	136	268408	5.00	ng	0.00
6) Acenaphthene-d10	16.69	164	137810	5.00	ng	-0.01
11) Phenanthrene-d10	19.99	188	225557	5.00	ng	0.00
16) Chrysene-d12	23.84	240	191139	5.00	ng	0.00
22) Perylene-d12	25.55	264	163845	5.00	ng	0.00

System Monitoring Compounds						
3) Nitrobenzene-d5	10.85	82	175415	9.87	ng	0.00
7) 2-Fluorobiphenyl	15.13	172	292539	8.06	ng	0.00
18) Terphenyl-d14	22.48	244	272448	9.52	ng	0.00

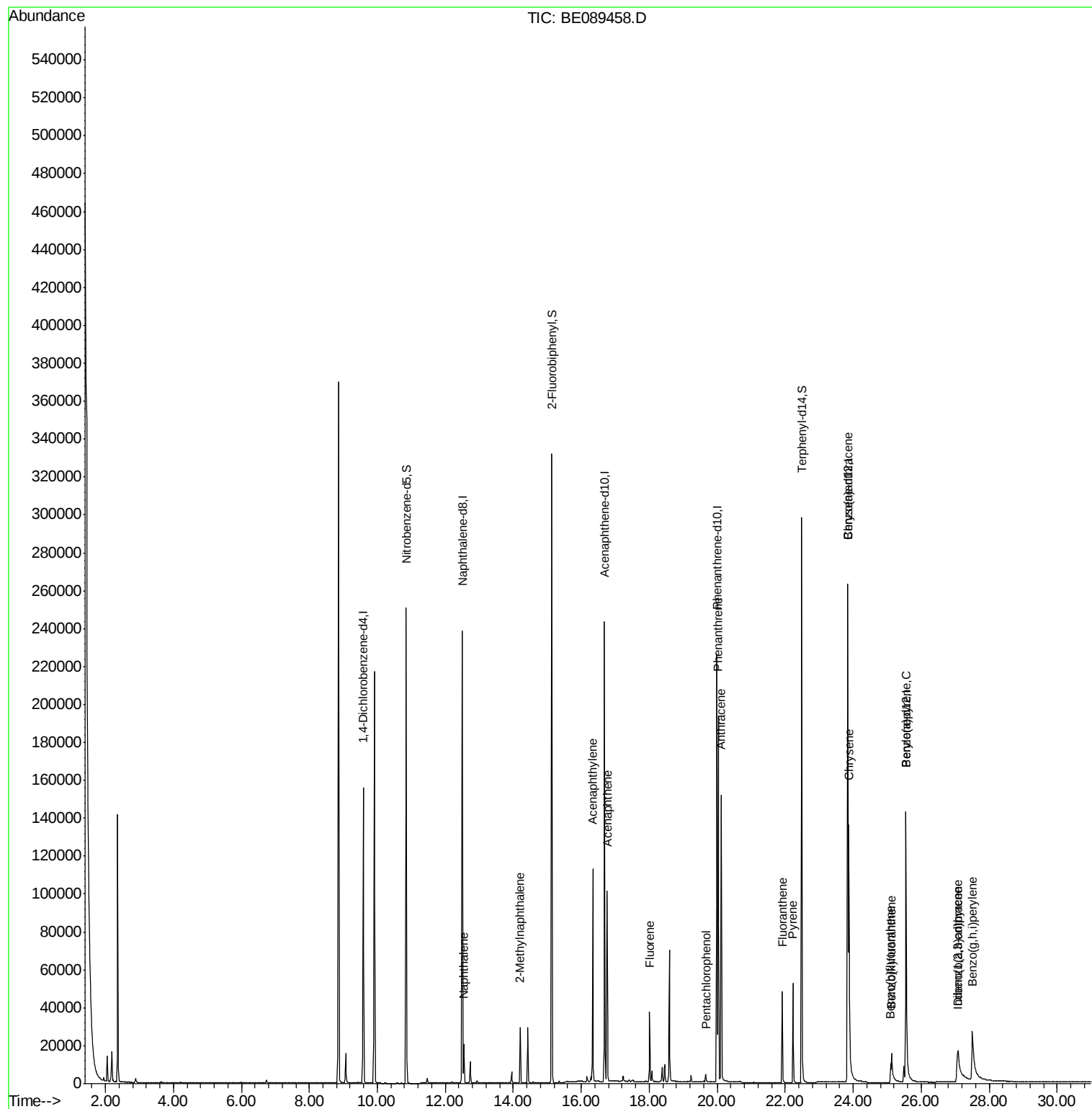
Target Compounds				Qvalue		
4) Naphthalene	12.54	128	23321	0.37	ng	100
5) 2-Methylnaphthalene	14.20	142	18958	0.50	ng	97
8) Acenaphthylene	16.33	152	136868	0.55	ng	100
9) Acenaphthene	16.76	154	21252	0.57	ng	100
10) Fluorene	18.01	166	26141	0.63	ng	99
12) Pentachlorophenol	19.66	266	2865	2.43	ng	92
13) Phenanthrene	20.03	178	167565	0.76	ng	100
14) Anthracene	20.12	178	152362	0.75	ng	98
15) Fluoranthene	21.91	202	35065	0.72	ng	99
17) Pyrene	22.23	202	37536	0.74	ng	100
19) Benzo(a)anthracene	23.83	228	102009	0.63	ng	100
20) Chrysene	23.87	228	145049	0.80	ng	97
21) Indeno(1,2,3-cd)pyrene	27.06	276	65785	0.42	ng	94
23) Benzo(b)fluoranthene	25.10	252	10370	0.53	ng	98
24) Benzo(k)fluoranthene	25.13	252	32565	0.78	ng	99
25) Benzo(a)pyrene	25.55	252	9391	0.43	ng	96
26) Dibenzo(a,h)anthracene	27.09	278	12269	0.49	ng	97
27) Benzo(g,h,i)perylene	27.51	276	77273	0.59	ng	99

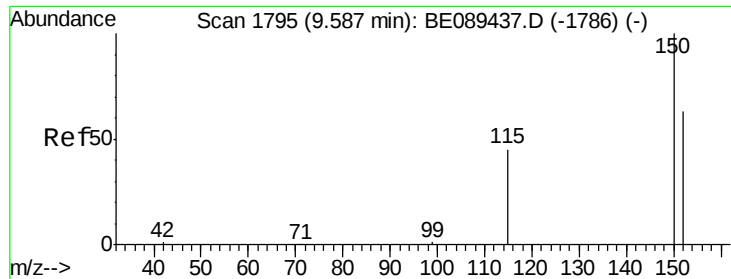
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 9.59 min Scan# 1795

Delta R.T. -0.00 min

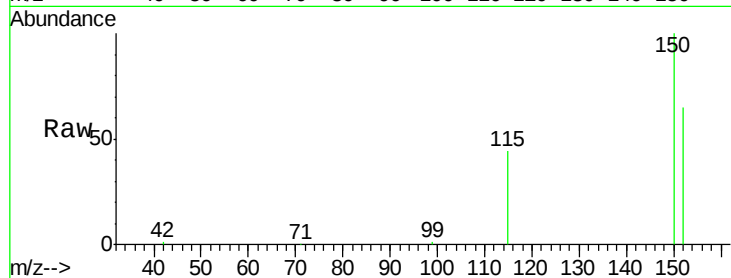
Lab File: BE089458.D

Acq: 31 Jan 2015 5:45

Instrument :

BNA_E

ClientSampleId :



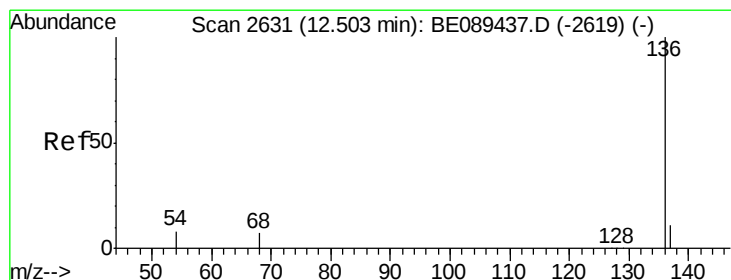
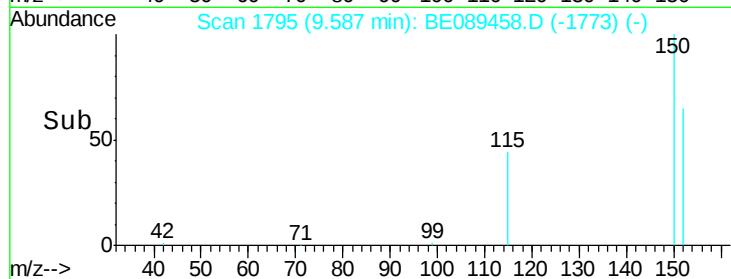
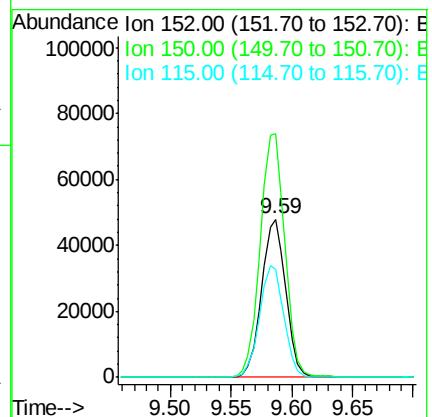
Tgt Ion:152 Resp: 65380

Ion Ratio Lower Upper

152 100

150 154.1 127.2 190.8

115 68.0 57.5 86.3



#2

Naphthalene-d8

Concen: 5.00 ng

RT: 12.50 min Scan# 2630

Delta R.T. -0.00 min

Lab File: BE089458.D

Acq: 31 Jan 2015 5:45

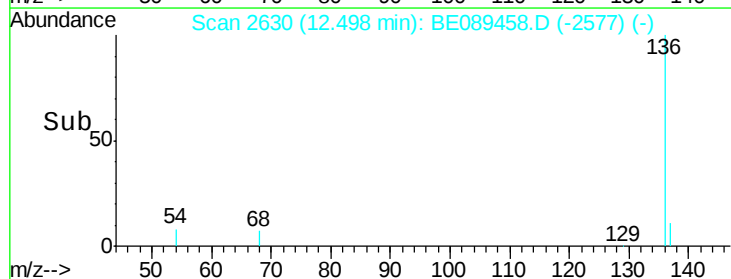
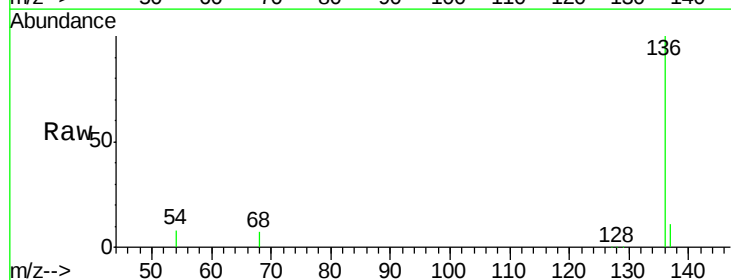
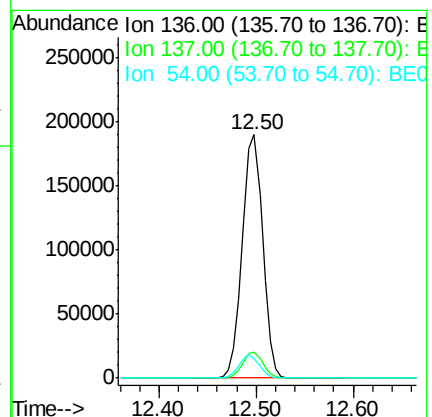
Tgt Ion:136 Resp: 268408

Ion Ratio Lower Upper

136 100

137 10.9 8.7 13.1

54 8.0 6.6 10.0





#3

Nitrobenzene-d5

Concen: 9.87 ng

RT: 10.85 min Scan# 2224

Delta R.T. -0.00 min

Lab File: BE089458.D

Acq: 31 Jan 2015 5:45

Instrument :

BNA_E

ClientSampleId :

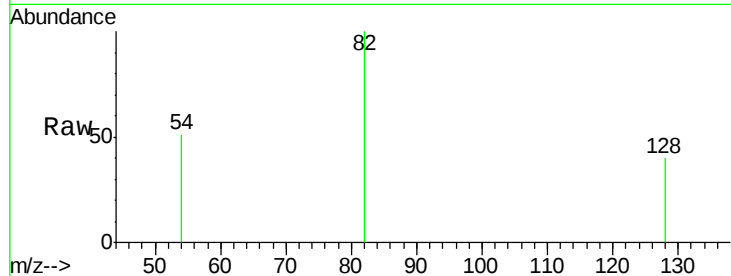
Tgt Ion: 82 Resp: 175415

Ion Ratio Lower Upper

82 100

128 40.5 31.2 46.8

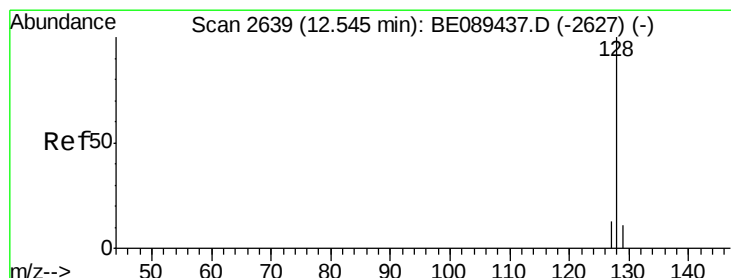
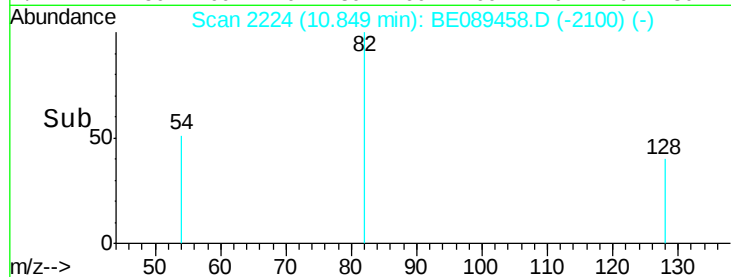
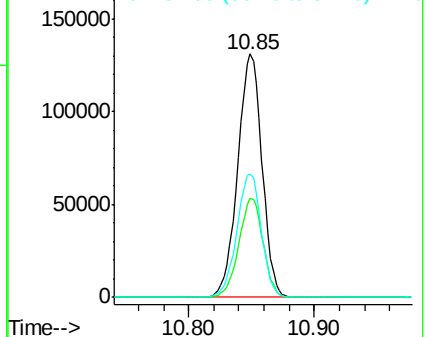
54 50.8 41.9 62.9



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: 0.37 ng

RT: 12.54 min Scan# 2638

Delta R.T. -0.00 min

Lab File: BE089458.D

Acq: 31 Jan 2015 5:45

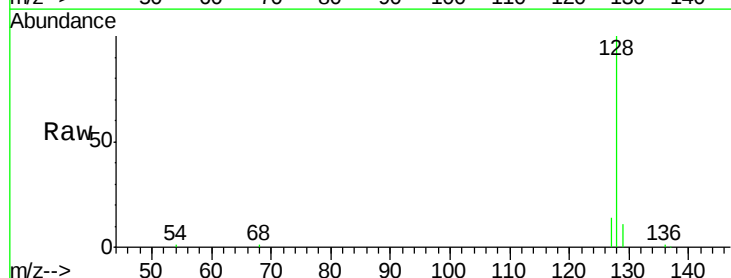
Tgt Ion: 128 Resp: 23321

Ion Ratio Lower Upper

128 100

129 11.0 8.8 13.2

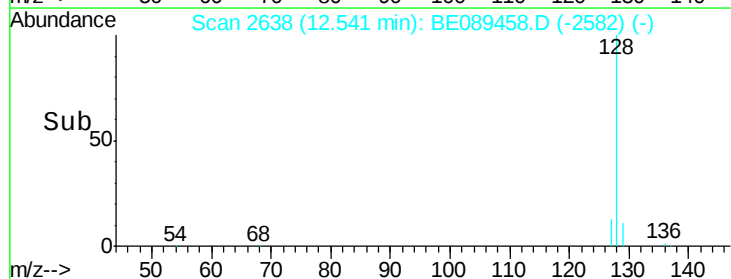
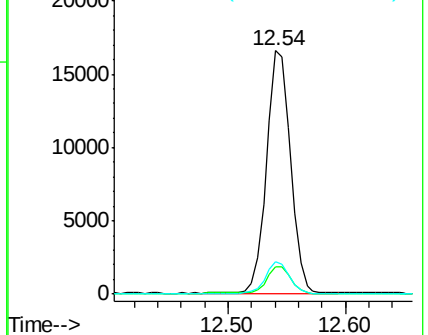
127 13.5 10.6 16.0



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: 0.50 ng

RT: 14.20 min Scan# 2976

Delta R.T. -0.01 min

Lab File: BE089458.D

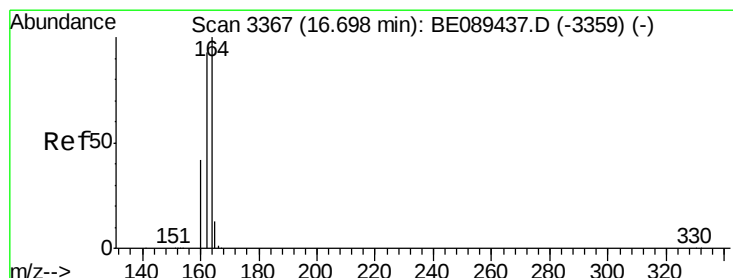
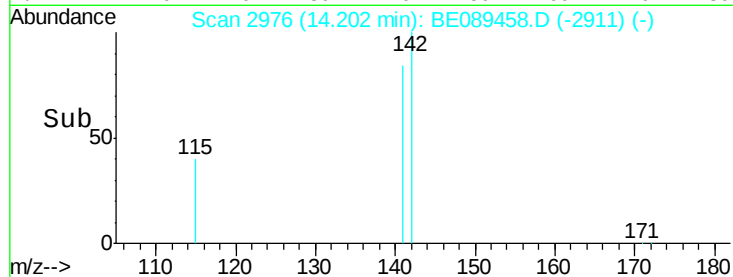
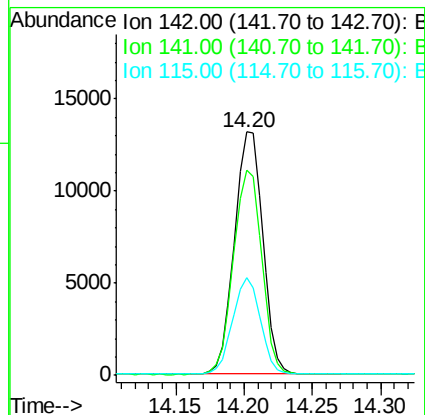
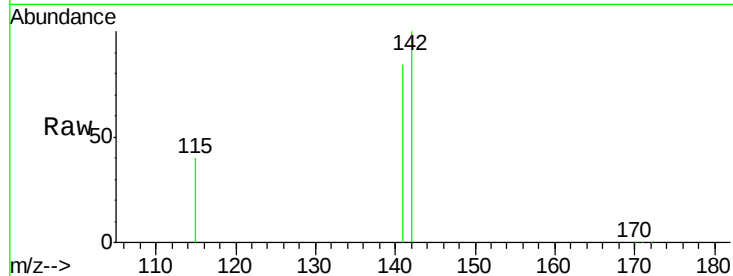
Acq: 31 Jan 2015 5:45

Instrument :

BNA_E

ClientSampleId :

Tgt Ion:	142	Resp:	18958
Ion Ratio	Lower	Upper	
142	100		
141	84.0	66.1	99.1
115	40.3	29.9	44.9



#6

Acenaphthene-d10

Concen: 5.00 ng

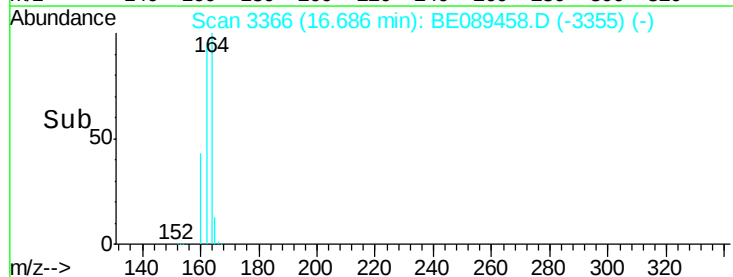
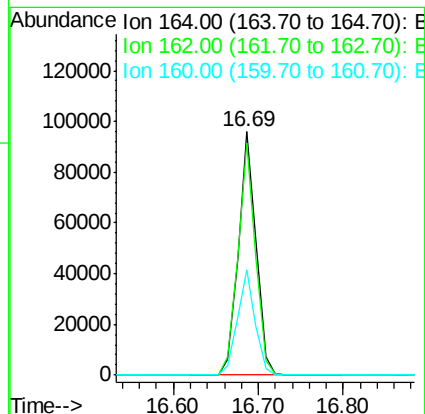
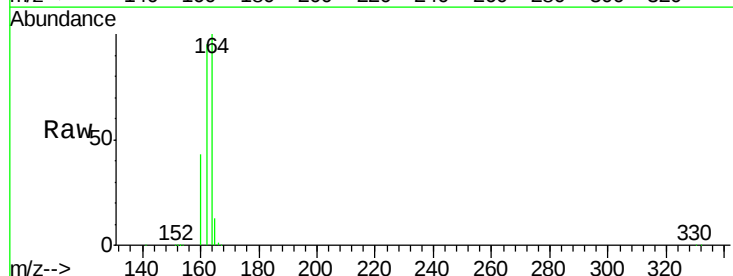
RT: 16.69 min Scan# 3366

Delta R.T. -0.01 min

Lab File: BE089458.D

Acq: 31 Jan 2015 5:45

Tgt Ion:	164	Resp:	137810
Ion Ratio	Lower	Upper	
164	100		
162	95.3	74.7	112.1
160	43.2	33.4	50.0





#7

2-Fluorobiphenyl

Concen: 8.06 ng

RT: 15.13 min Scan# 3180

Delta R.T. -0.01 min

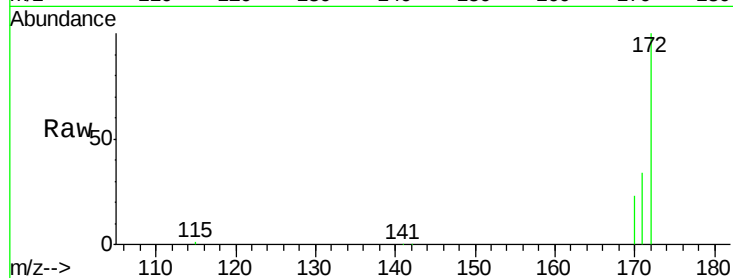
Lab File: BE089458.D

Acq: 31 Jan 2015 5:45

Instrument :

BNA_E

ClientSampleId :



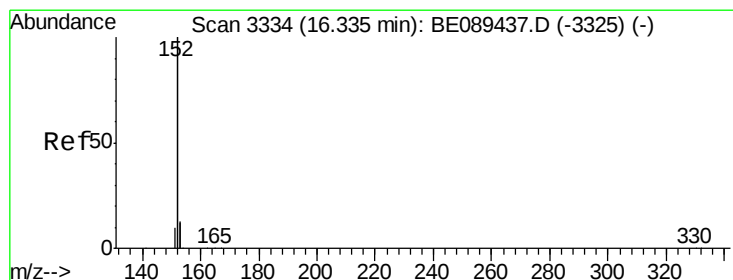
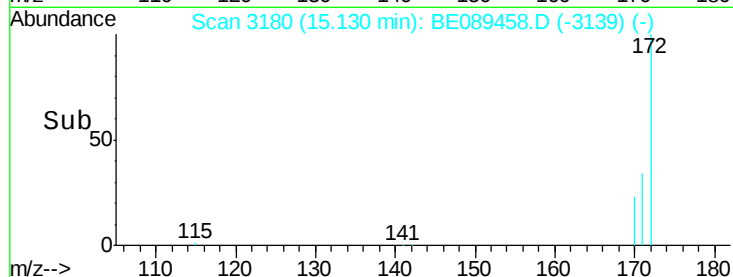
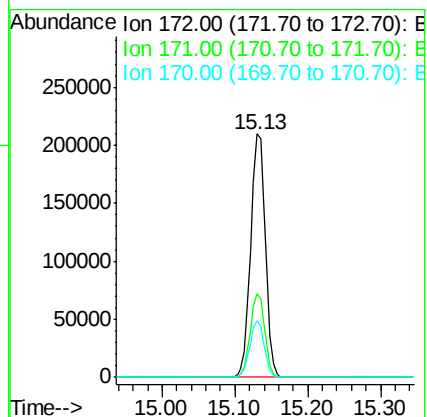
Tgt Ion:172 Resp: 292539

Ion Ratio Lower Upper

172 100

171 34.4 26.2 39.4

170 23.1 16.5 24.7



#8

Acenaphthylene

Concen: 0.55 ng

RT: 16.33 min Scan# 3334

Delta R.T. -0.00 min

Lab File: BE089458.D

Acq: 31 Jan 2015 5:45

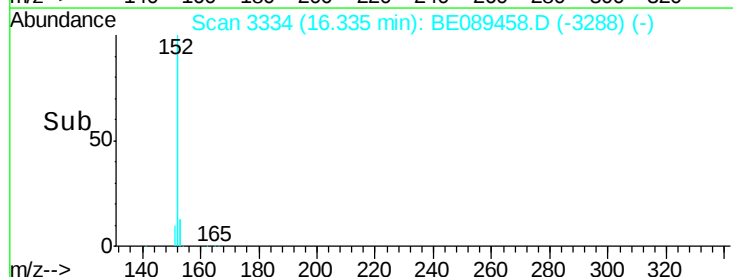
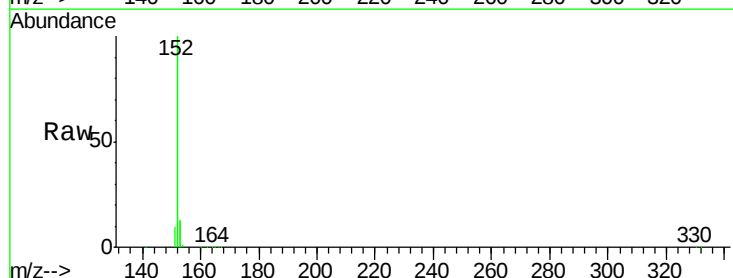
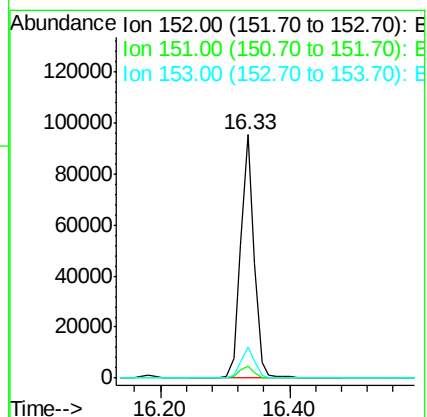
Tgt Ion:152 Resp: 136868

Ion Ratio Lower Upper

152 100

151 4.9 3.9 5.9

153 13.0 10.3 15.5





#9

Acenaphthene

Concen: 0.57 ng

RT: 16.76 min Scan# 3373

Delta R.T. -0.00 min

Lab File: BE089458.D

Acq: 31 Jan 2015 5:45

Instrument :

BNA_E

ClientSampleId :

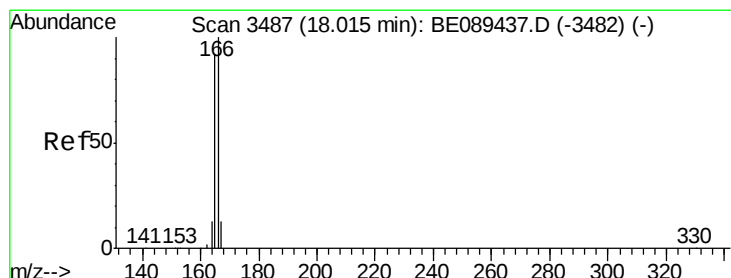
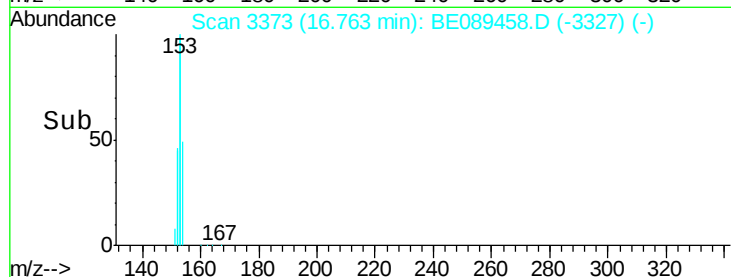
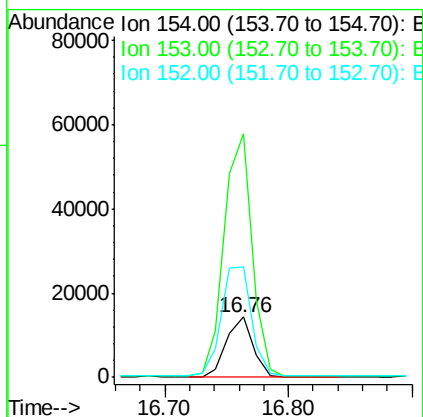
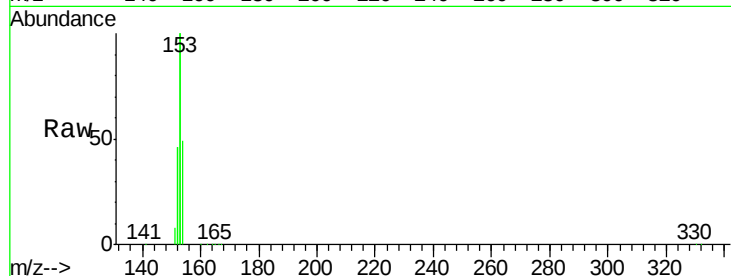
Tgt Ion:154 Resp: 21252

Ion Ratio Lower Upper

154 100

153 427.5 342.3 513.5

152 207.5 165.5 248.3



#10

Fluorene

Concen: 0.63 ng

RT: 18.01 min Scan# 3487

Delta R.T. -0.00 min

Lab File: BE089458.D

Acq: 31 Jan 2015 5:45

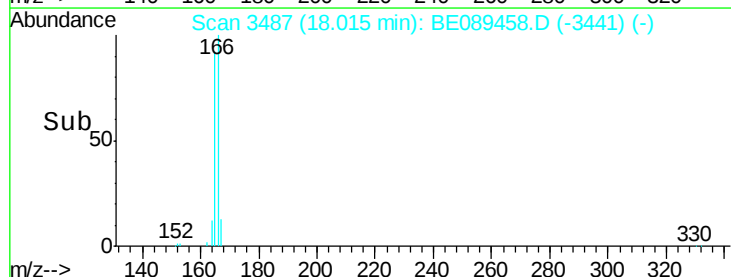
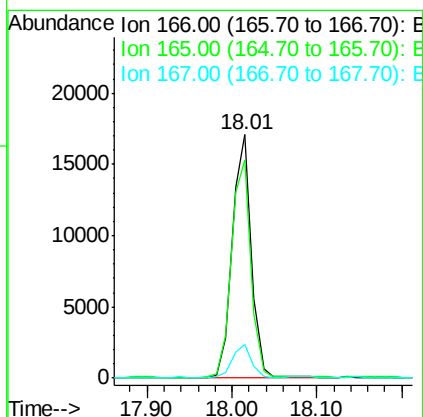
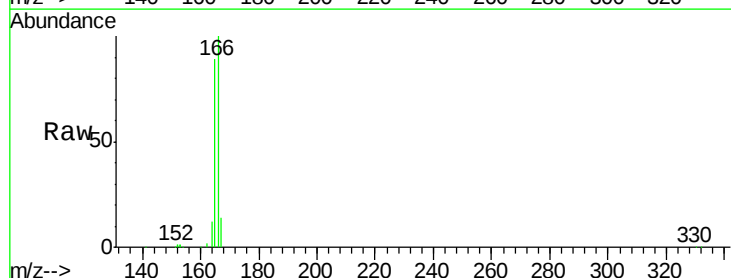
Tgt Ion:166 Resp: 26141

Ion Ratio Lower Upper

166 100

165 91.7 74.4 111.6

167 13.1 10.6 15.8

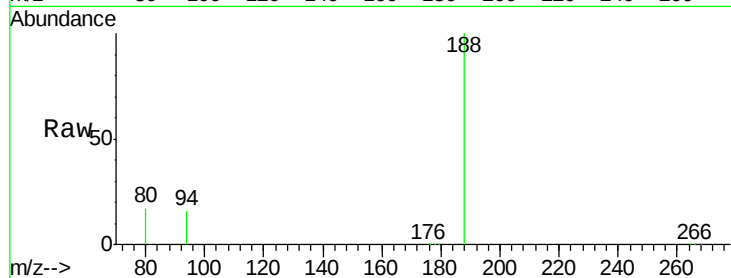




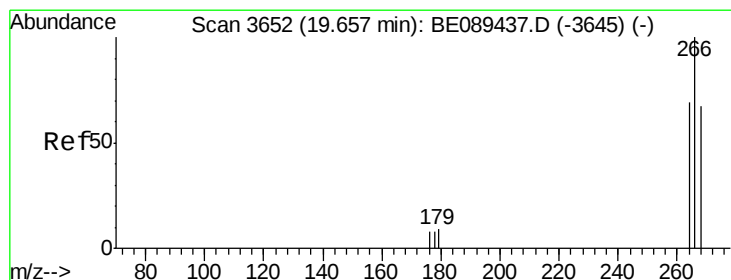
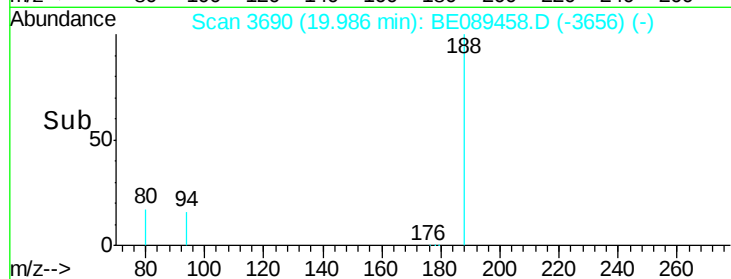
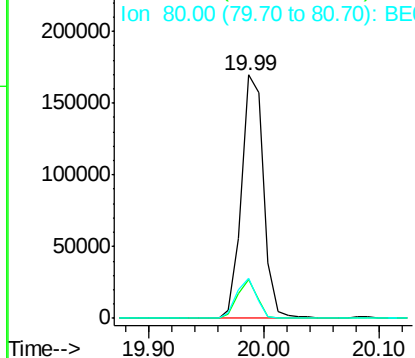
#11
Phenanthrene-d10
Concen: 5.00 ng
RT: 19.99 min Scan# 3690
Delta R.T. -0.01 min
Lab File: BE089458.D
Acq: 31 Jan 2015 5:45

Instrument :
BNA_E
ClientSampleId :

Tgt Ion:188 Resp: 225557
Ion Ratio Lower Upper
188 100
94 15.9 9.4 14.0#
80 16.6 9.3 13.9#

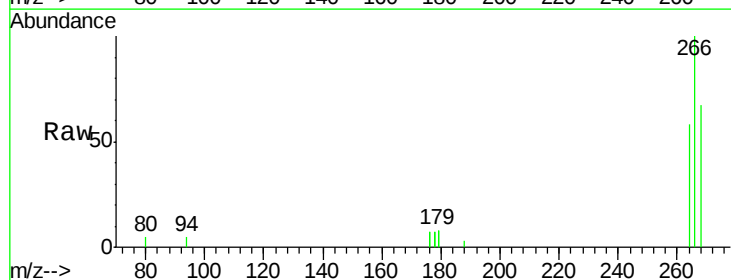


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BE0
Ion 80.00 (79.70 to 80.70): BE0

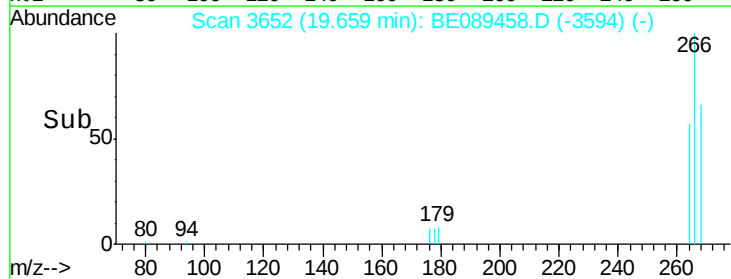
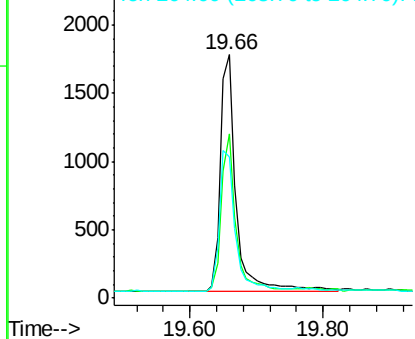


#12
Pentachlorophenol
Concen: 2.43 ng
RT: 19.66 min Scan# 3652
Delta R.T. 0.00 min
Lab File: BE089458.D
Acq: 31 Jan 2015 5:45

Tgt Ion:266 Resp: 2865
Ion Ratio Lower Upper
266 100
268 67.3 54.2 81.4
264 58.2 56.2 84.2



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: 0.76 ng

RT: 20.03 min Scan# 3695

Delta R.T. 0.00 min

Lab File: BE089458.D

Acq: 31 Jan 2015 5:45

Instrument :

BNA_E

ClientSampleId :

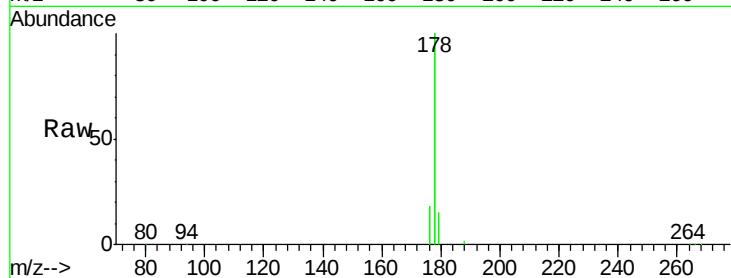
Tgt Ion:178 Resp: 167565

Ion Ratio Lower Upper

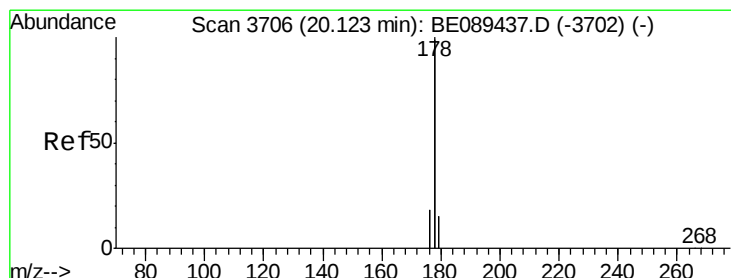
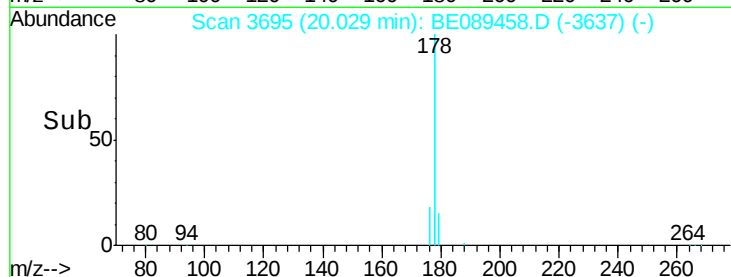
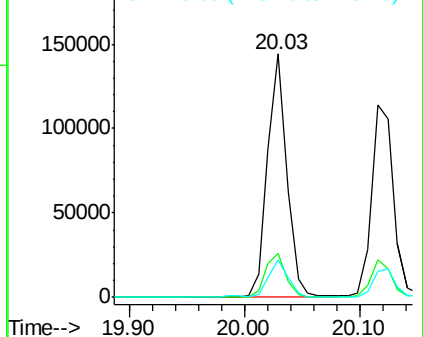
178 100

176 18.8 15.1 22.7

179 15.6 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: 0.75 ng

RT: 20.12 min Scan# 3705

Delta R.T. -0.01 min

Lab File: BE089458.D

Acq: 31 Jan 2015 5:45

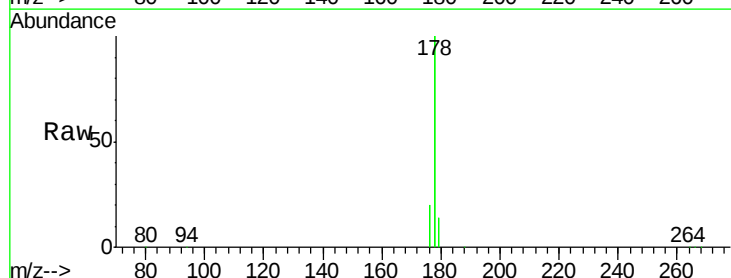
Tgt Ion:178 Resp: 152362

Ion Ratio Lower Upper

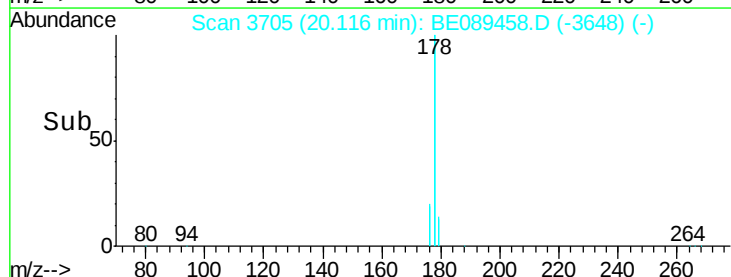
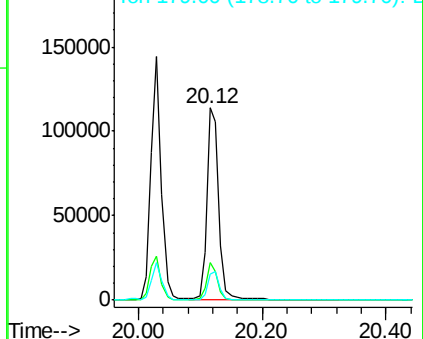
178 100

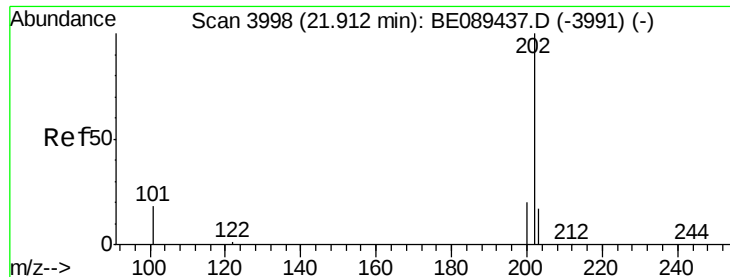
176 17.6 14.6 22.0

179 14.4 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

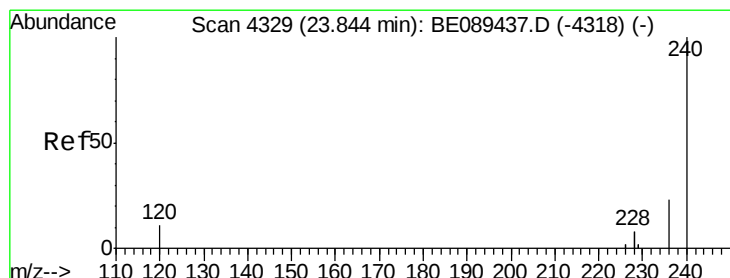
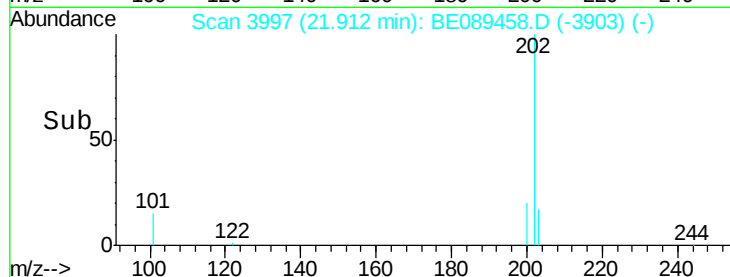
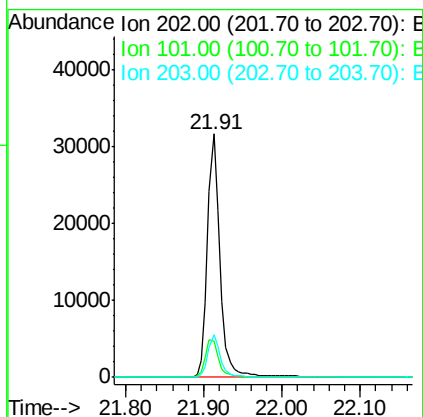
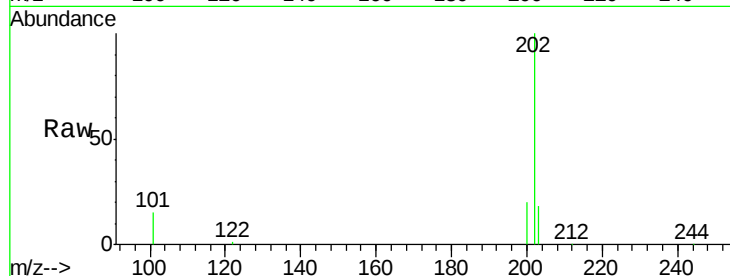




#15
 Fluoranthene
 Concen: 0.72 ng
 RT: 21.91 min Scan# 3997
 Delta R.T. 0.00 min
 Lab File: BE089458.D
 Acq: 31 Jan 2015 5:45

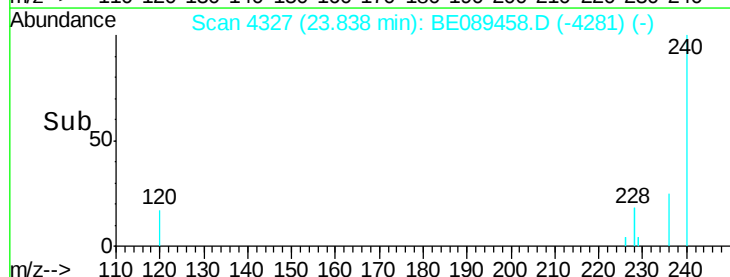
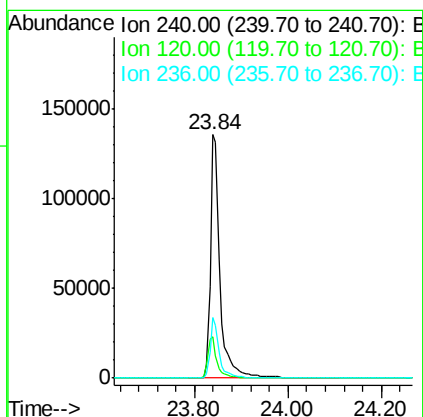
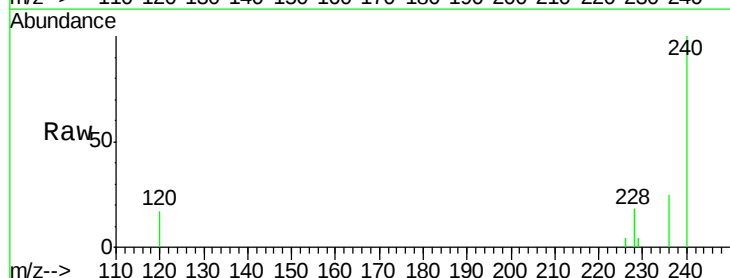
Instrument :
 BNA_E
 ClientSampleId :

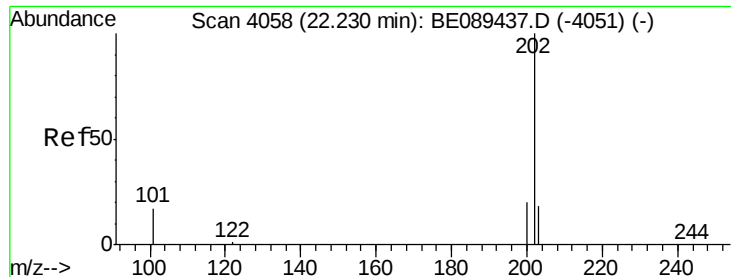
Tgt Ion: 202 Resp: 35065
 Ion Ratio Lower Upper
 202 100
 101 16.3 13.6 20.4
 203 17.1 13.8 20.6



#16
 Chrysene-d12
 Concen: 5.00 ng
 RT: 23.84 min Scan# 4327
 Delta R.T. -0.01 min
 Lab File: BE089458.D
 Acq: 31 Jan 2015 5:45

Tgt Ion: 240 Resp: 191139
 Ion Ratio Lower Upper
 240 100
 120 17.0 8.6 13.0#
 236 24.9 18.7 28.1

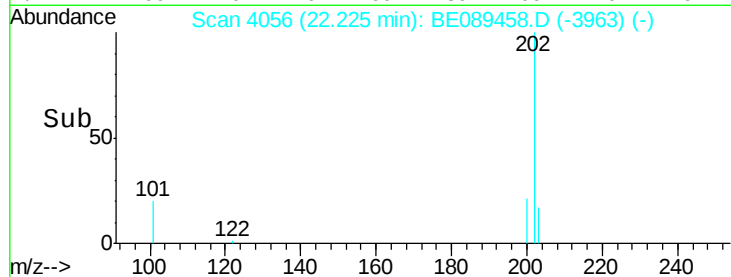
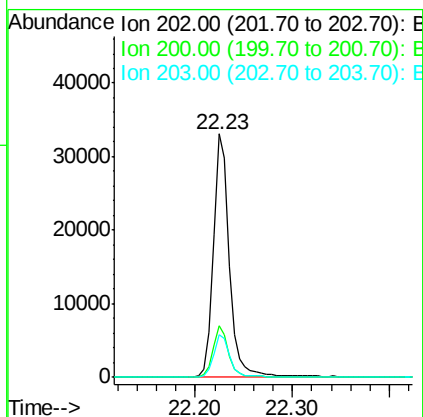
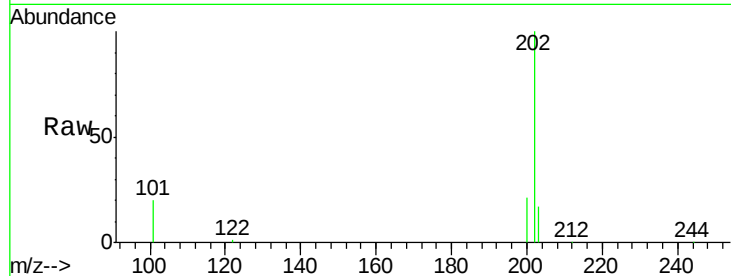




#17
 Pyrene
 Concen: 0.74 ng
 RT: 22.23 min Scan# 4056
 Delta R.T. -0.00 min
 Lab File: BE089458.D
 Acq: 31 Jan 2015 5:45

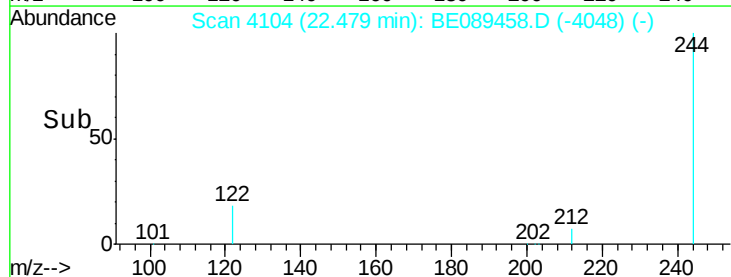
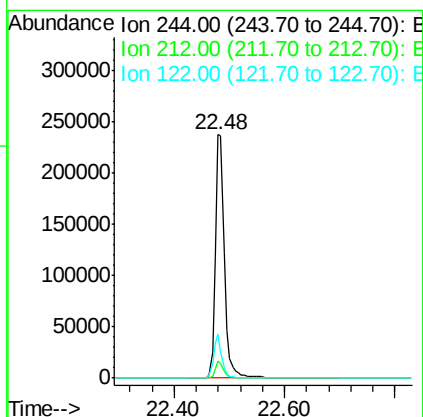
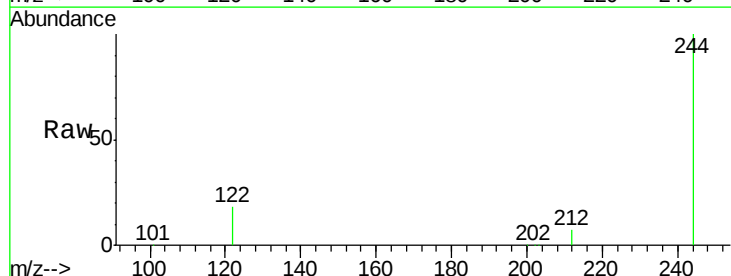
Instrument :
 BNA_E
 ClientSampleId :

Tgt Ion: 202 Resp: 37536
 Ion Ratio Lower Upper
 202 100
 200 20.4 16.2 24.4
 203 17.6 13.8 20.8



#18
 Terphenyl-d14
 Concen: 9.52 ng
 RT: 22.48 min Scan# 4104
 Delta R.T. -0.00 min
 Lab File: BE089458.D
 Acq: 31 Jan 2015 5:45

Tgt Ion: 244 Resp: 272448
 Ion Ratio Lower Upper
 244 100
 212 7.0 5.0 7.6
 122 17.9 10.2 15.4#





#19

Benzo(a)anthracene

Concen: 0.63 ng

RT: 23.83 min Scan# 4326

Delta R.T. 0.00 min

Lab File: BE089458.D

Acq: 31 Jan 2015 5:45

Instrument :

BNA_E

ClientSampleId :

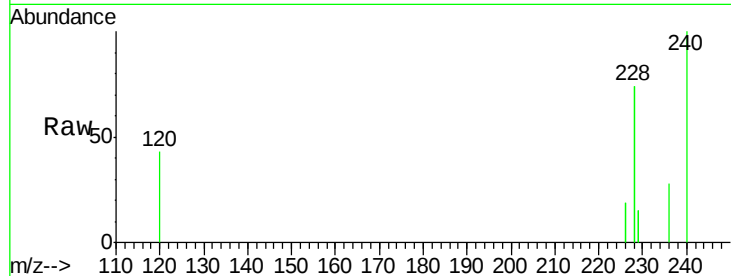
Tgt Ion:228 Resp: 102009

Ion Ratio Lower Upper

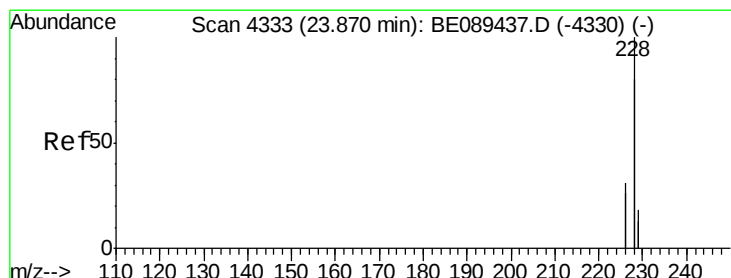
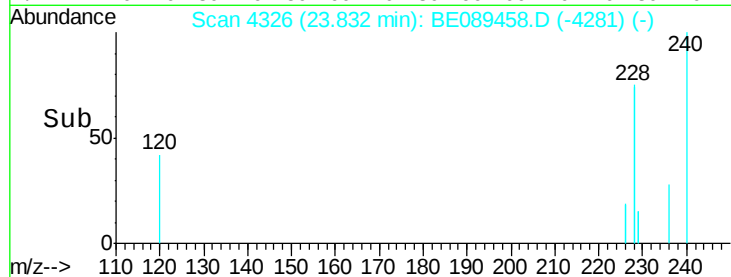
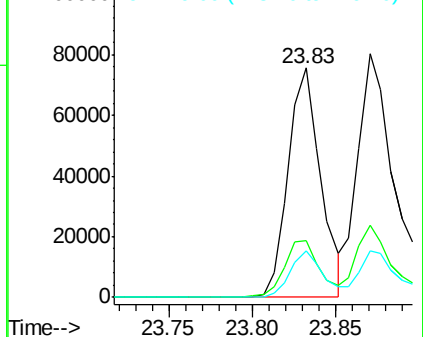
228 100

226 24.9 20.0 30.0

229 20.3 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: 0.80 ng

RT: 23.87 min Scan# 4332

Delta R.T. 0.00 min

Lab File: BE089458.D

Acq: 31 Jan 2015 5:45

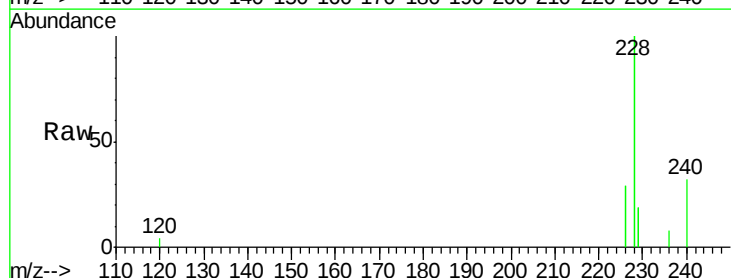
Tgt Ion:228 Resp: 145049

Ion Ratio Lower Upper

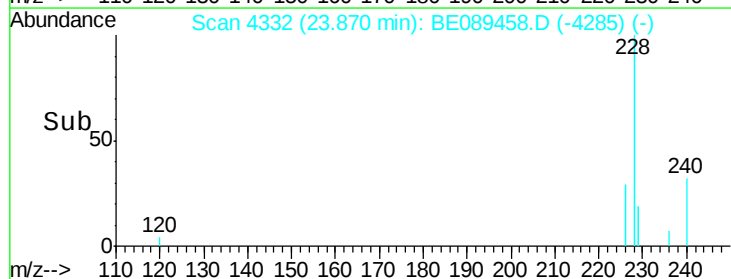
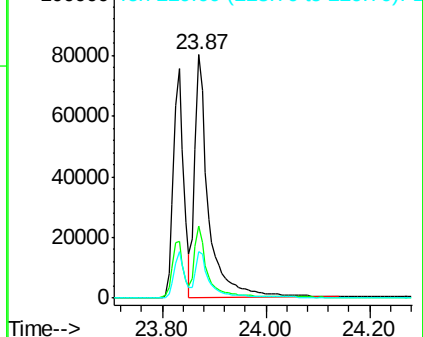
228 100

226 29.5 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

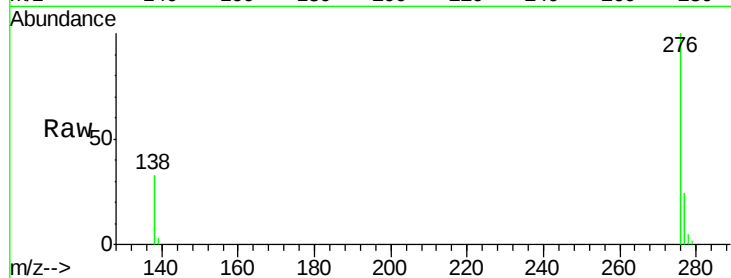




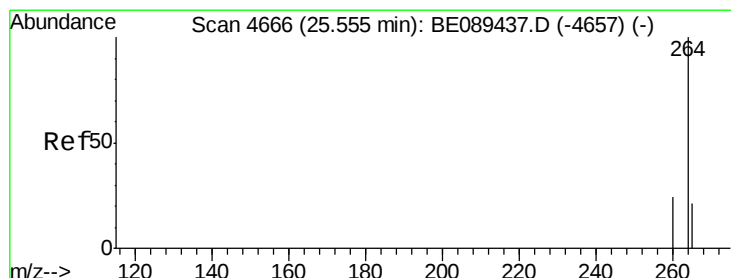
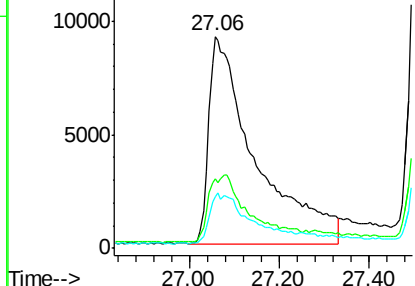
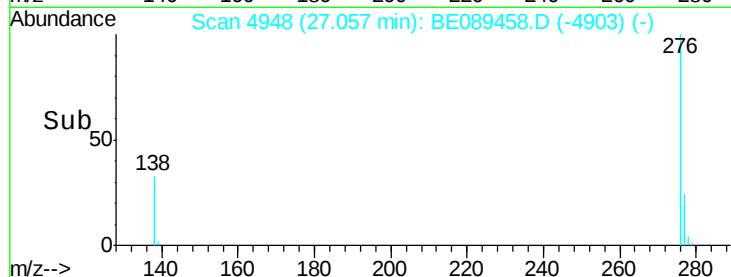
#21
 Indeno(1,2,3-cd)pyrene
 Concen: 0.42 ng
 RT: 27.06 min Scan# 4948
 Delta R.T. -0.01 min
 Lab File: BE089458.D
 Acq: 31 Jan 2015 5:45

Instrument :
 BNA_E
 ClientSampleId :

Tgt Ion: 276 Resp: 65785
 Ion Ratio Lower Upper
 276 100
 138 28.8 25.4 38.0
 277 21.6 19.8 29.6

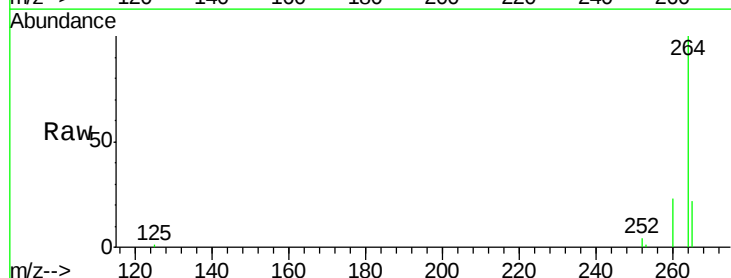


Abundance Ion 276.00 (275.70 to 276.70): E
 Ion 138.00 (137.70 to 138.70): E
 Ion 277.00 (276.70 to 277.70): E

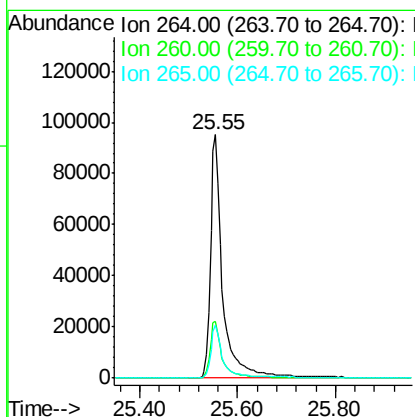
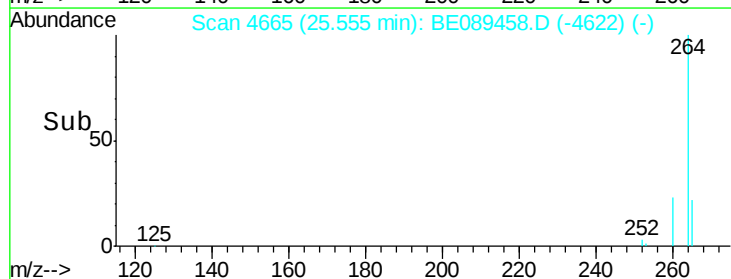


#22
 Perylene-d12
 Concen: 5.00 ng
 RT: 25.55 min Scan# 4665
 Delta R.T. 0.00 min
 Lab File: BE089458.D
 Acq: 31 Jan 2015 5:45

Tgt Ion: 264 Resp: 163845
 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: 0.53 ng

RT: 25.10 min Scan# 4565

Delta R.T. 0.00 min

Lab File: BE089458.D

Acq: 31 Jan 2015 5:45

Instrument :

BNA_E

ClientSampleId :

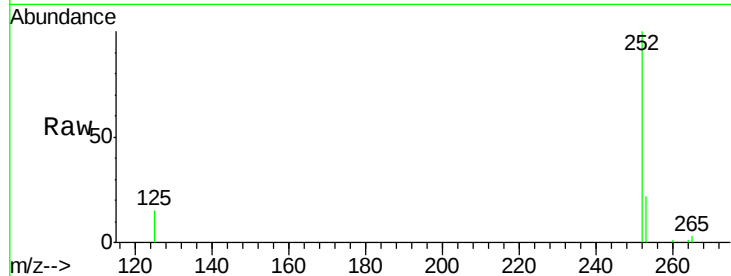
Tgt Ion:252 Resp: 10370

Ion Ratio Lower Upper

252 100

253 22.2 17.0 25.6

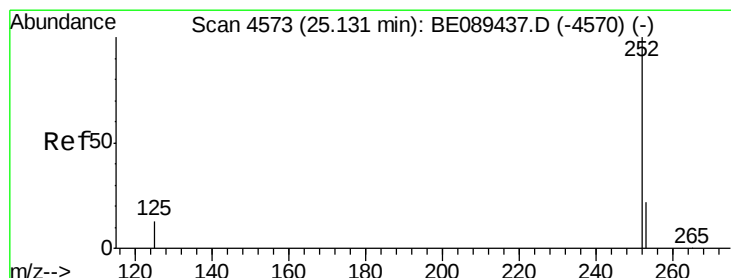
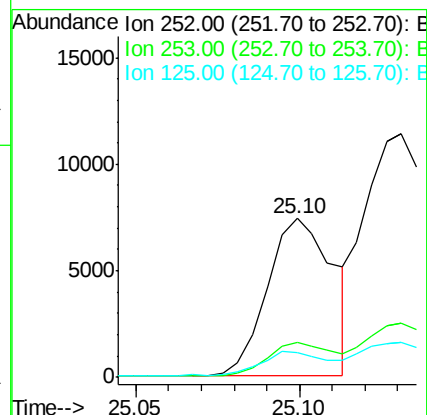
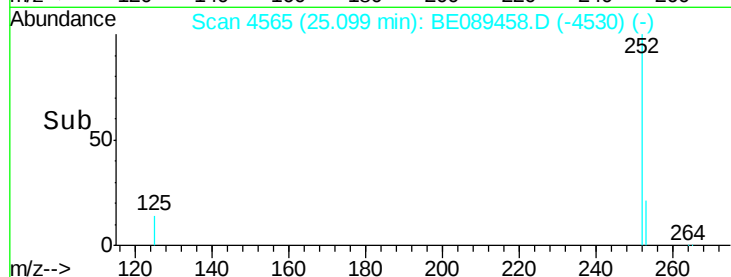
125 15.5 11.4 17.0



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#24

Benzo(k)fluoranthene

Concen: 0.78 ng

RT: 25.13 min Scan# 4572

Delta R.T. 0.00 min

Lab File: BE089458.D

Acq: 31 Jan 2015 5:45

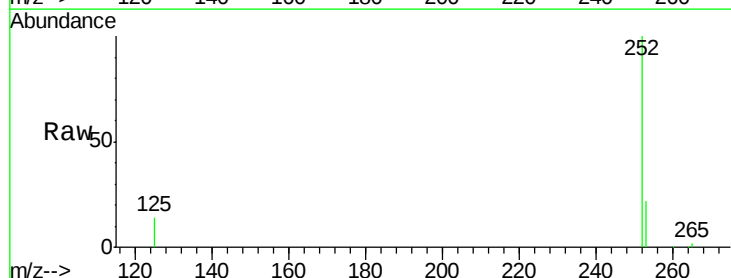
Tgt Ion:252 Resp: 32565

Ion Ratio Lower Upper

252 100

253 22.3 17.4 26.2

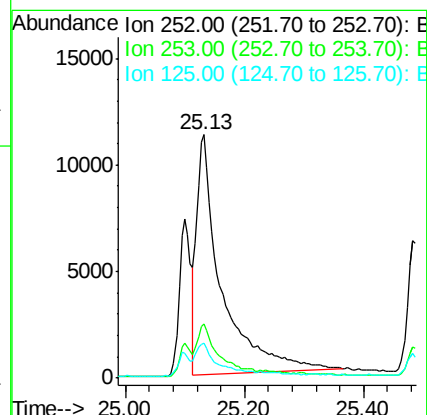
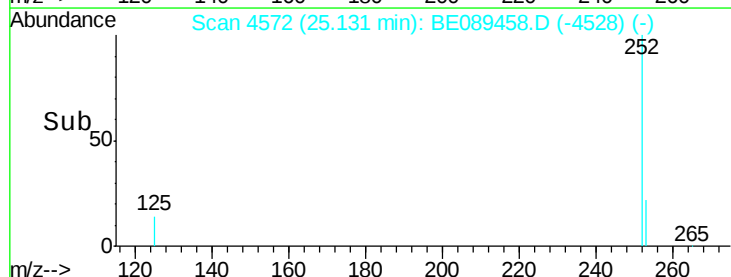
125 14.4 10.9 16.3



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#25

Benzo(a)pyrene

Concen: 0.43 ng

RT: 25.55 min Scan# 4664

Delta R.T. 0.06 min

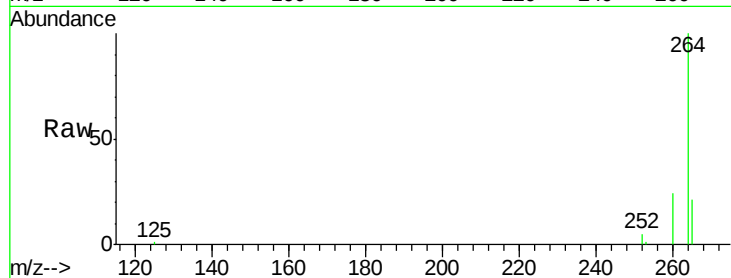
Lab File: BE089458.D

Acq: 31 Jan 2015 5:45

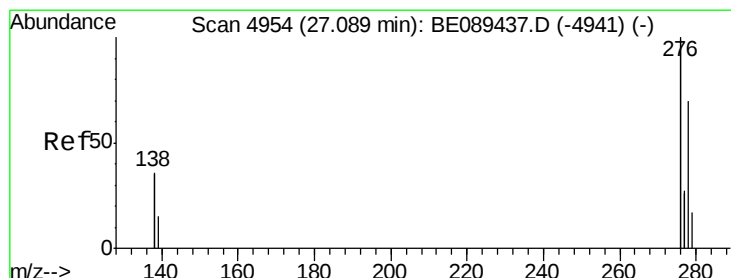
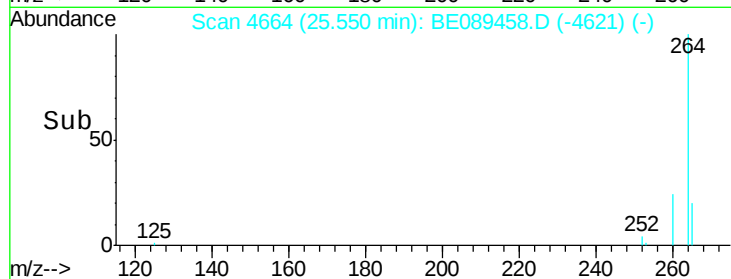
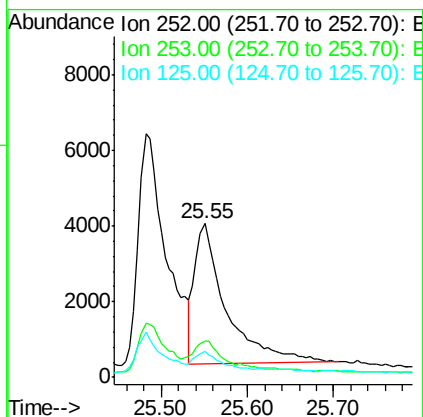
Instrument :

BNA_E

ClientSampleId :



Tgt Ion:	252	Resp:	9391
Ion	Ratio	Lower	Upper
252	100		
253	23.8	17.3	25.9
125	16.8	12.0	18.0



#26

Dibenzo(a,h)anthracene

Concen: 0.49 ng

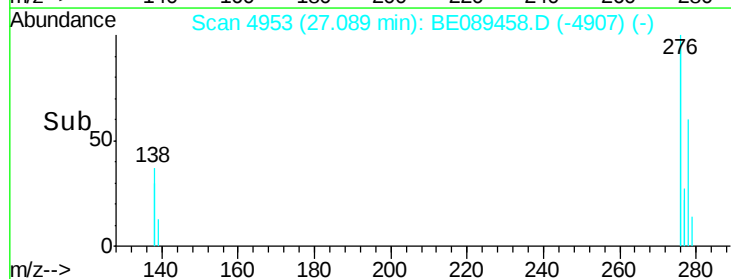
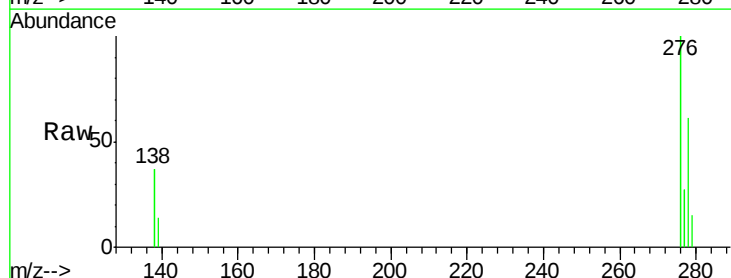
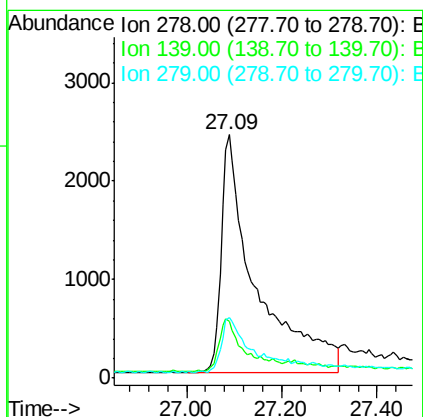
RT: 27.09 min Scan# 4953

Delta R.T. 0.00 min

Lab File: BE089458.D

Acq: 31 Jan 2015 5:45

Tgt Ion:	278	Resp:	12269
Ion	Ratio	Lower	Upper
278	100		
139	23.1	17.0	25.4
279	25.1	19.1	28.7





#27

Benzo(g,h,i)perylene

Concen: 0.59 ng

RT: 27.51 min Scan# 5017

Delta R.T. 0.00 min

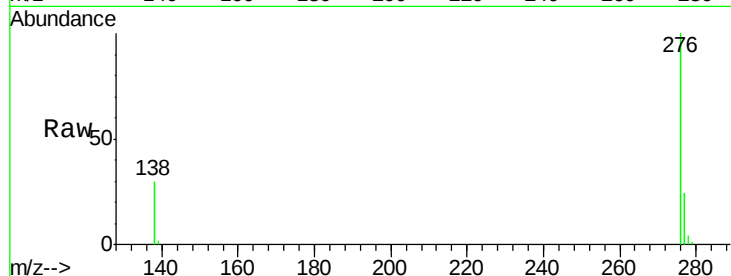
Lab File: BE089458.D

Acq: 31 Jan 2015 5:45

Instrument :

BNA_E

ClientSampleId :



Tgt Ion: 276 Resp: 77273

Ion Ratio Lower Upper

276 100

277 23.6 18.4 27.6

138 30.0 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

