

Data Path : Z:\HPCHEM1\BNA_E\Data\BE010715\
 Data File : BE089347.D
 Acq On : 8 Jan 2015 1:58
 Operator : TP/IZ
 Sample : G1001-06
 Misc : LOQ-WATER-1.0PPM-SIM
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: Jan 08 15:38:19 2015
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIM-PAH-BASE-BE010715.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jan 08 15:21:44 2015
 Response via : Initial Calibration

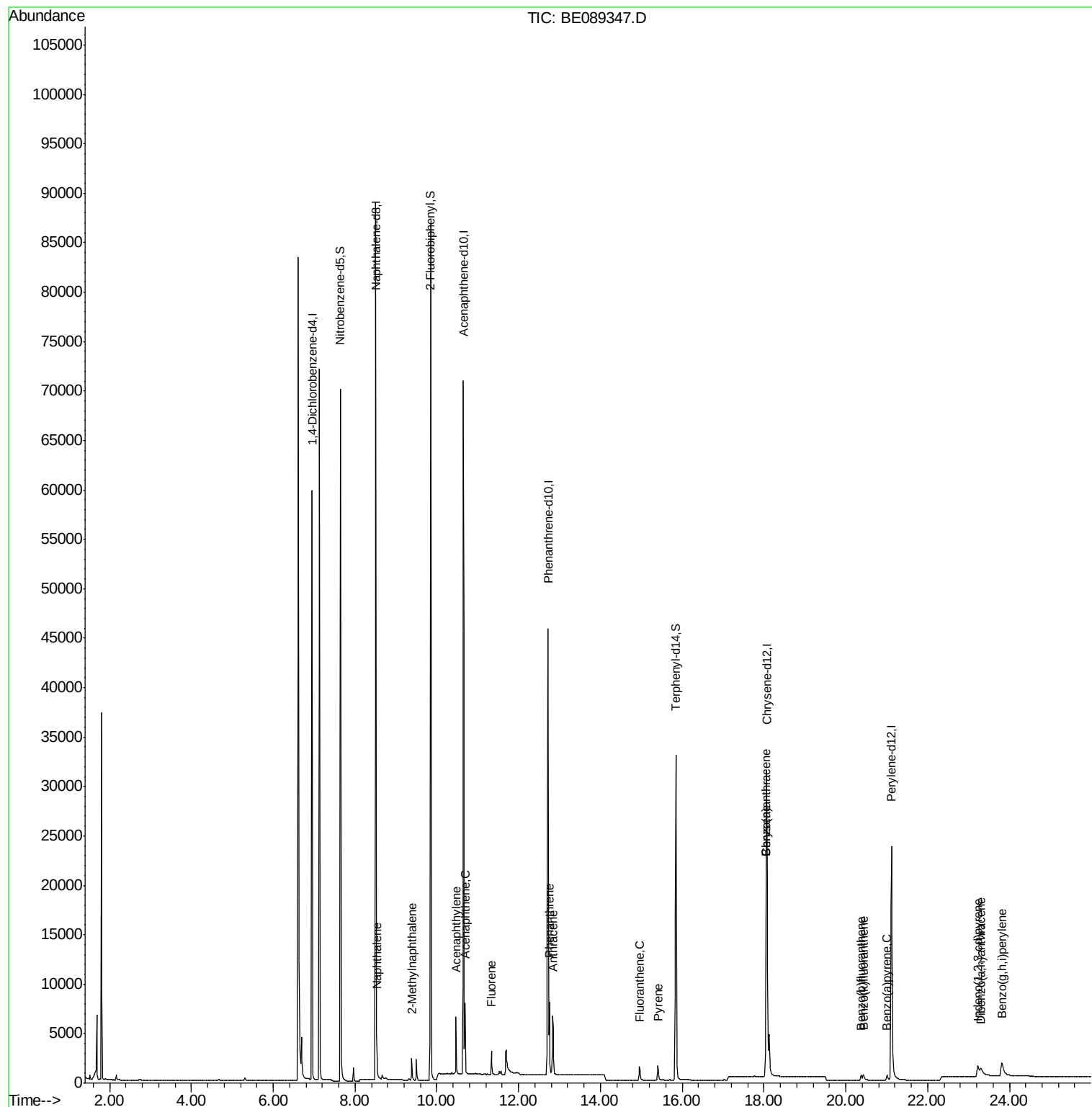
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.95	152	19389	5.00	ng	0.00
2) Naphthalene-d8	8.51	136	73931	5.00	ng	0.00
6) Acenaphthene-d10	10.65	164	34040	5.00	ng	0.00
11) Phenanthrene-d10	12.72	188	51330	5.00	ng	0.00
15) Chrysene-d12	18.06	240	39203	5.00	ng	0.00
21) Perylene-d12	21.12	264	36028	5.00	ng	0.00
System Monitoring Compounds						
3) Nitrobenzene-d5	7.64	82	36460	7.09	ng	0.00
7) 2-Fluorobiphenyl	9.85	172	58707	6.32	ng	0.00
17) Terphenyl-d14	15.85	244	44666	6.44	ng	0.00
Target Compounds						Qvalue
4) Naphthalene	8.53	128	2152	0.13	ng	95
5) 2-Methylnaphthalene	9.39	142	1284	0.12	ng	97
8) Acenaphthylene	10.47	152	7072	0.12	ng	# 95
9) Acenaphthene	10.69	154	1231	0.14	ng	97
10) Fluorene	11.34	166	1175	0.12	ng	99
12) Phenanthrene	12.75	178	7037	0.13	ng	95
13) Anthracene	12.84	178	6472	0.13	ng	93
14) Fluoranthene	14.96	202	1526	0.13	ng	93
16) Pyrene	15.41	202	1583	0.12	ng	# 93
18) Benzo(a)anthracene	18.05	228	5460	0.14	ng	93
19) Chrysene	18.05	228	5460	0.14	ng	97
20) Indeno(1,2,3-cd)pyrene	23.23	276	4594	0.12	ng	# 79
22) Benzo(b)fluoranthene	20.37	252	928	0.12	ng	# 84
23) Benzo(k)fluoranthene	20.43	252	1339	0.14	ng	# 83
24) Benzo(a)pyrene	21.01	252	974	0.13	ng	# 84
25) Dibenzo(a,h)anthracene	23.31	278	793	0.11	ng	# 67
26) Benzo(g,h,i)perylene	23.82	276	4364	0.12	ng	# 79

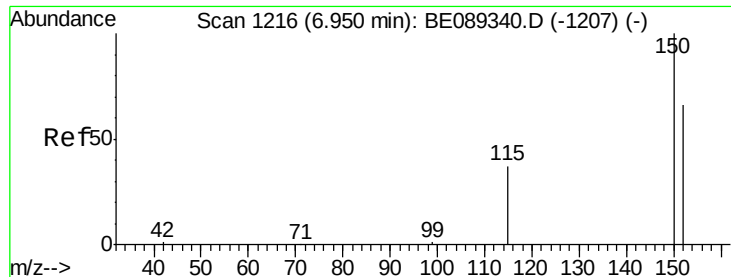
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 6.95 min Scan# 1216

Delta R.T. -0.00 min

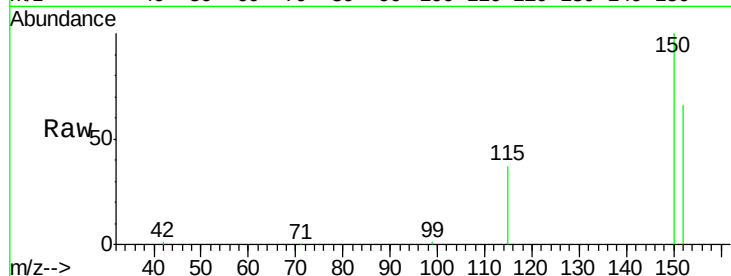
Lab File: BE089347.D

Acq: 8 Jan 2015 1:58

Instrument :

BNA_E

ClientSampleId :



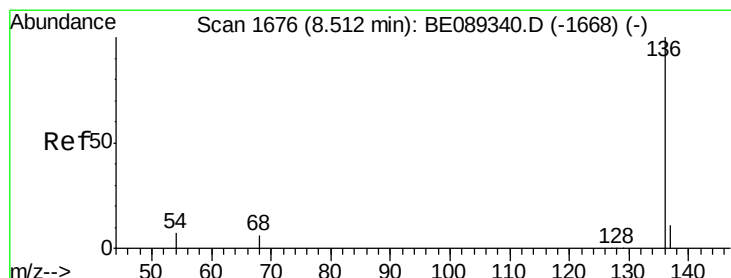
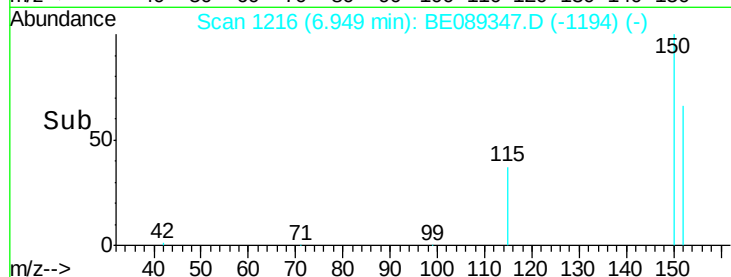
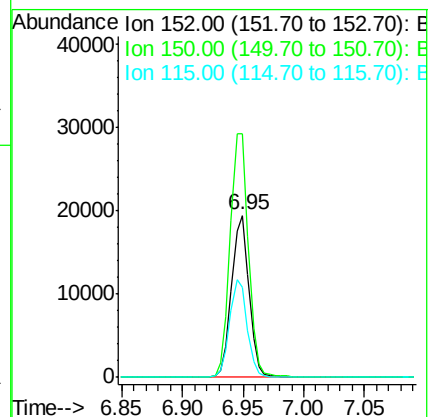
Tgt Ion:152 Resp: 19389

Ion Ratio Lower Upper

152 100

150 150.6 121.5 182.3

115 55.5 45.2 67.8



#2

Naphthalene-d8

Concen: 5.00 ng

RT: 8.51 min Scan# 1676

Delta R.T. -0.00 min

Lab File: BE089347.D

Acq: 8 Jan 2015 1:58

Tgt Ion:136 Resp: 73931

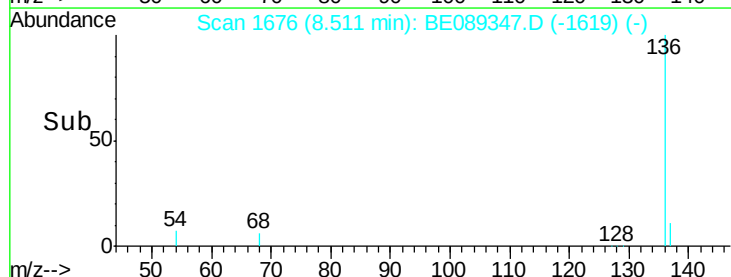
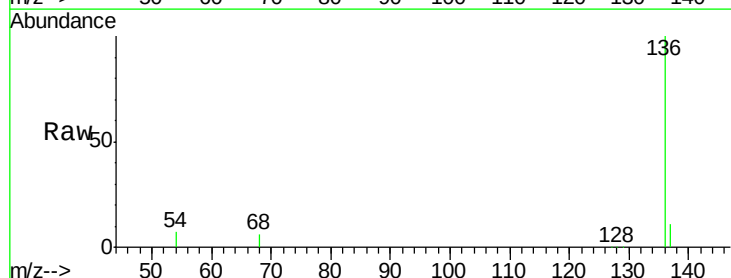
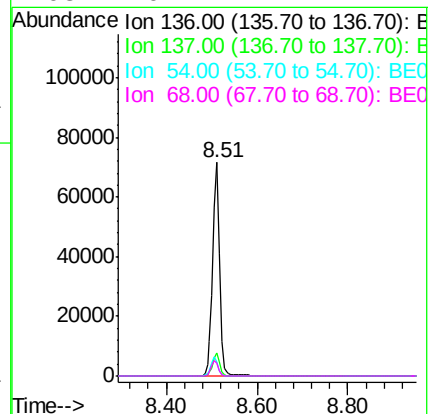
Ion Ratio Lower Upper

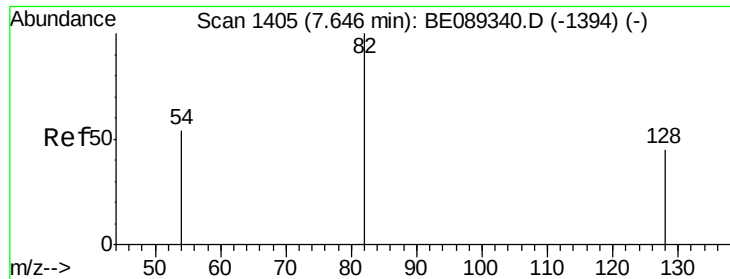
136 100

137 11.0 9.0 13.4

54 6.8 5.4 8.0

68 6.2 4.7 7.1





#3

Nitrobenzene-d5

Concen: 7.09 ng

RT: 7.64 min Scan# 1404

Delta R.T. -0.00 min

Lab File: BE089347.D

Acq: 8 Jan 2015 1:58

Instrument :

BNA_E

ClientSampleId :

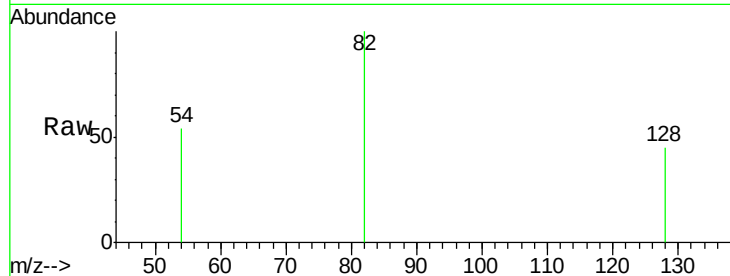
Tgt Ion: 82 Resp: 36460

Ion Ratio Lower Upper

82 100

128 45.5 36.5 54.7

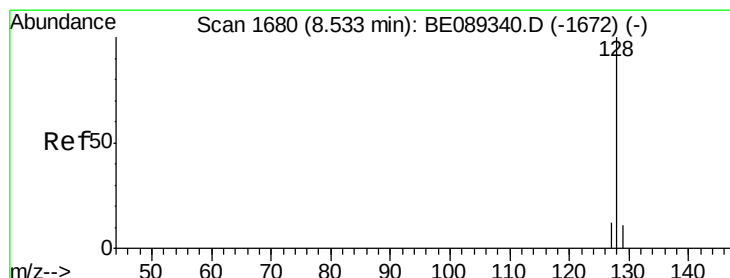
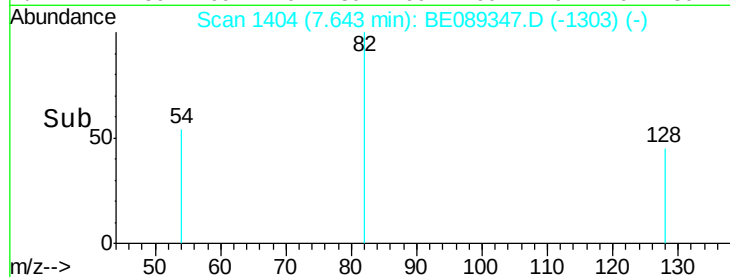
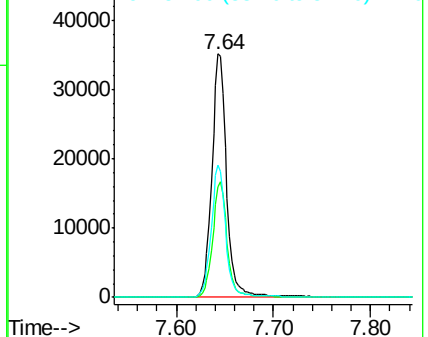
54 54.2 43.5 65.3



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: 0.13 ng

RT: 8.53 min Scan# 1680

Delta R.T. -0.00 min

Lab File: BE089347.D

Acq: 8 Jan 2015 1:58

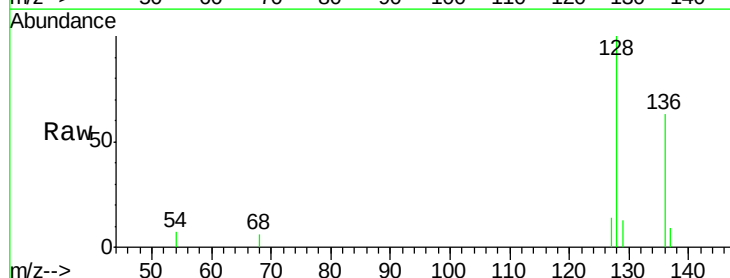
Tgt Ion: 128 Resp: 2152

Ion Ratio Lower Upper

128 100

129 12.8 8.8 13.2

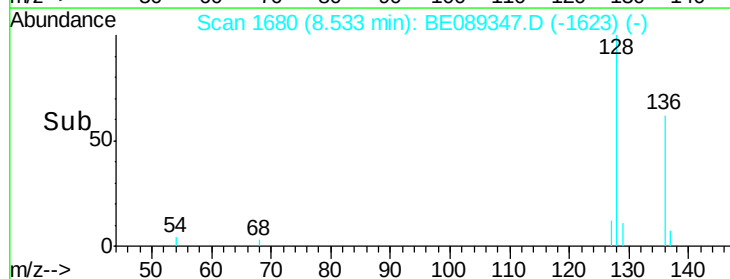
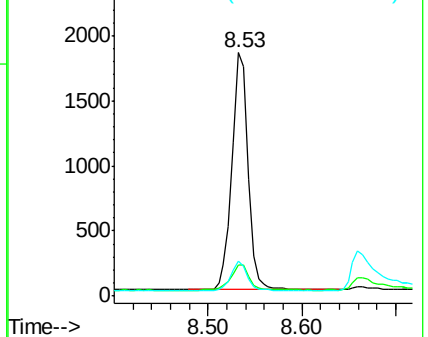
127 14.4 10.0 15.0

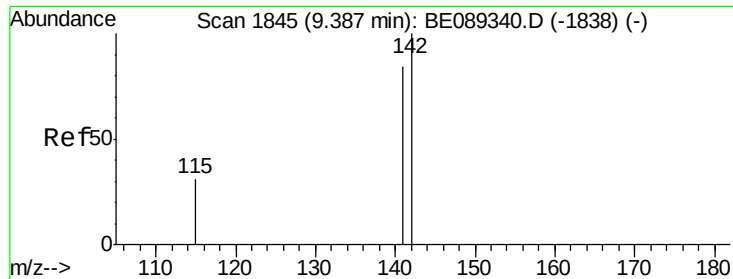


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E

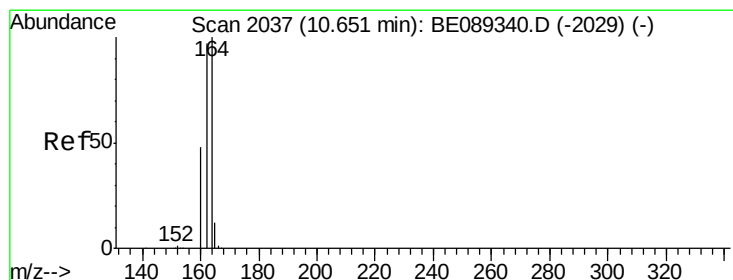
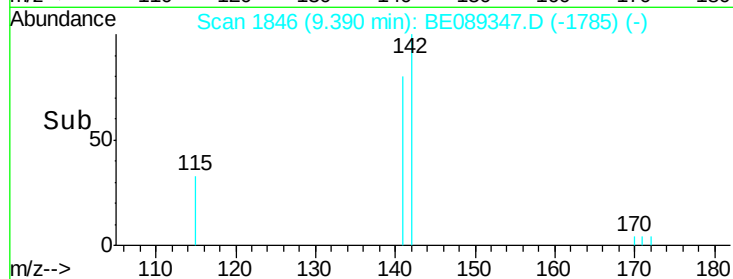
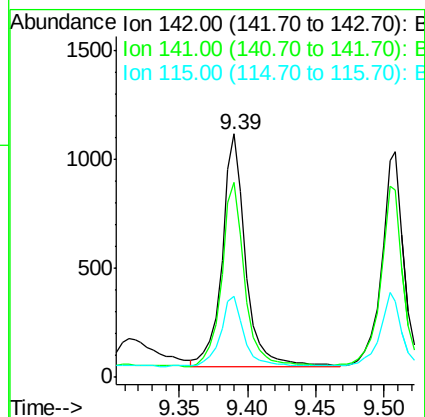
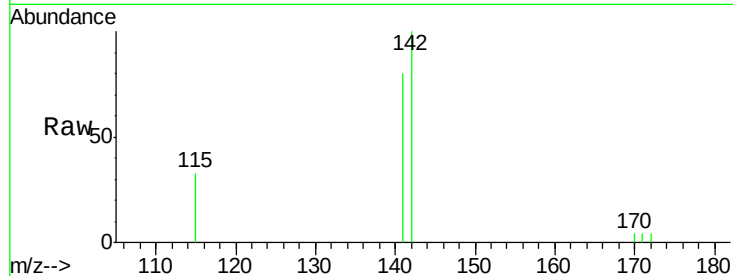




#5
2-Methylnaphthalene
Concen: 0.12 ng
RT: 9.39 min Scan# 1846
Delta R.T. 0.00 min
Lab File: BE089347.D
Acq: 8 Jan 2015 1:58

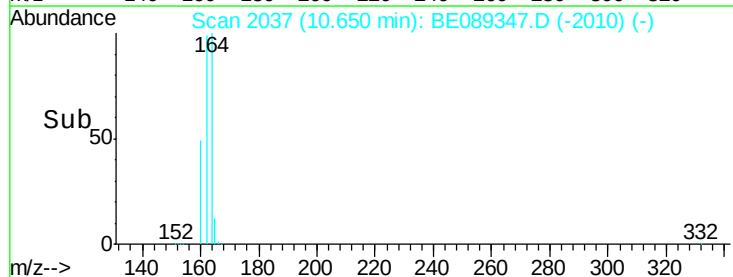
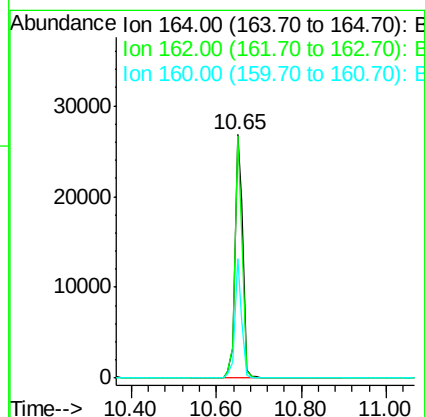
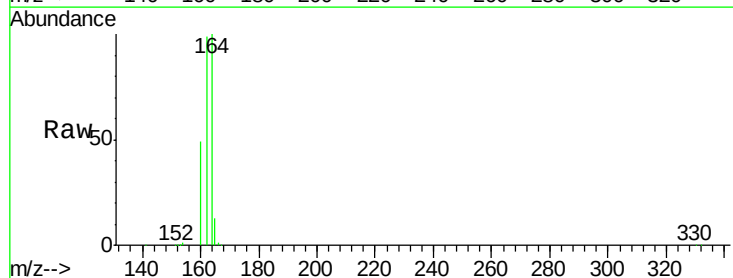
Instrument :
BNA_E
ClientSampled :

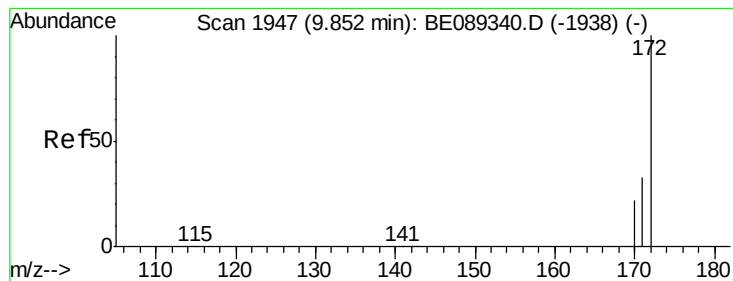
Tgt Ion:142 Resp: 1284
Ion Ratio Lower Upper
142 100
141 79.9 66.3 99.5
115 33.2 25.2 37.8



#6
Acenaphthene-d10
Concen: 5.00 ng
RT: 10.65 min Scan# 2037
Delta R.T. -0.00 min
Lab File: BE089347.D
Acq: 8 Jan 2015 1:58

Tgt Ion:164 Resp: 34040
Ion Ratio Lower Upper
164 100
162 99.4 77.4 116.2
160 48.9 38.2 57.4





#7

2-Fluorobiphenyl

Concen: 6.32 ng

RT: 9.85 min Scan# 1947

Delta R.T. -0.00 min

Lab File: BE089347.D

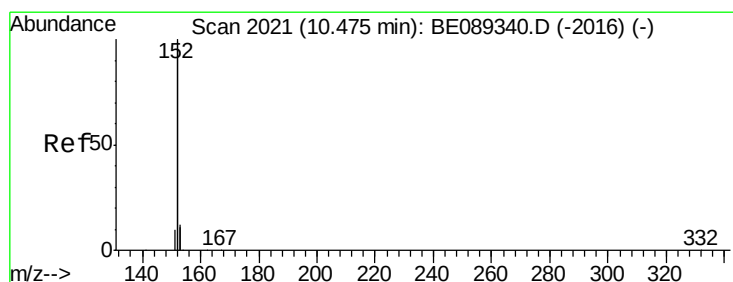
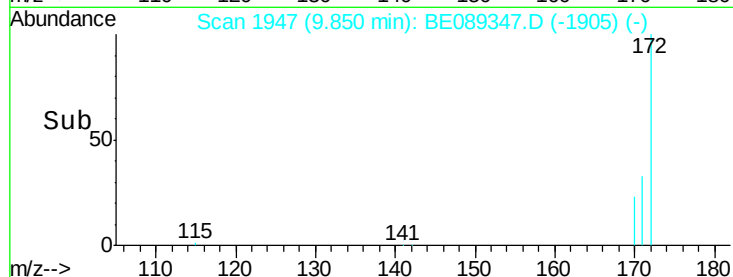
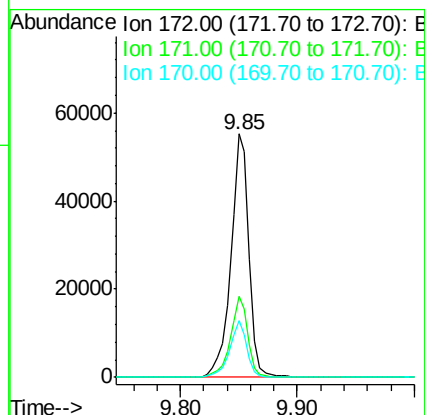
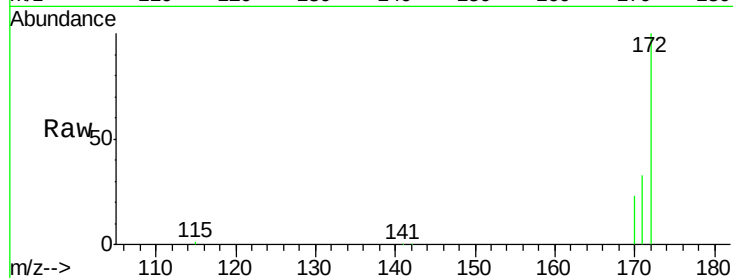
Acq: 8 Jan 2015 1:58

Instrument :

BNA_E

ClientSampleId :

Tgt Ion:	172	Resp:	58707
Ion	Ratio	Lower	Upper
172	100		
171	33.2	26.4	39.6
170	23.1	18.0	27.0



#8

Acenaphthylene

Concen: 0.12 ng

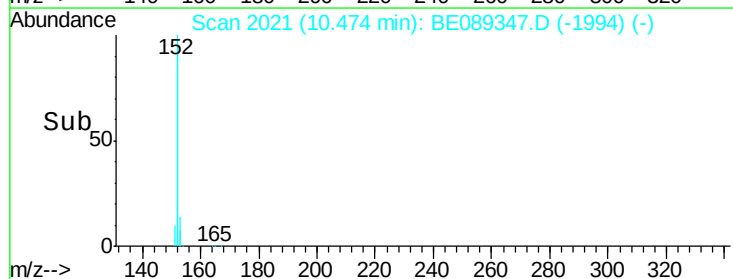
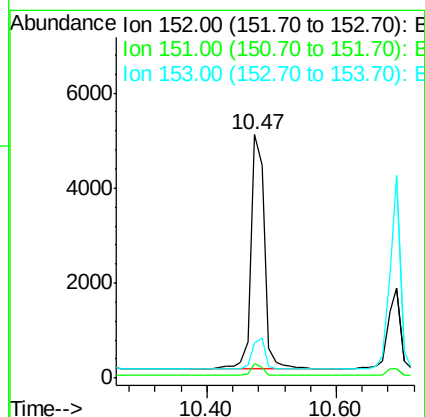
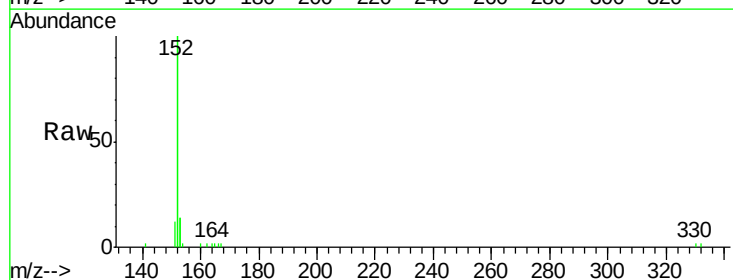
RT: 10.47 min Scan# 2021

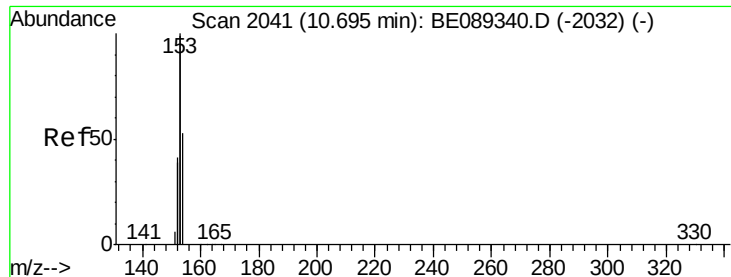
Delta R.T. -0.00 min

Lab File: BE089347.D

Acq: 8 Jan 2015 1:58

Tgt Ion:	152	Resp:	7072
Ion	Ratio	Lower	Upper
152	100		
151	6.2	4.1	6.1#
153	14.3	9.8	14.6





#9

Acenaphthene

Concen: 0.14 ng

RT: 10.69 min Scan# 2041

Delta R.T. -0.00 min

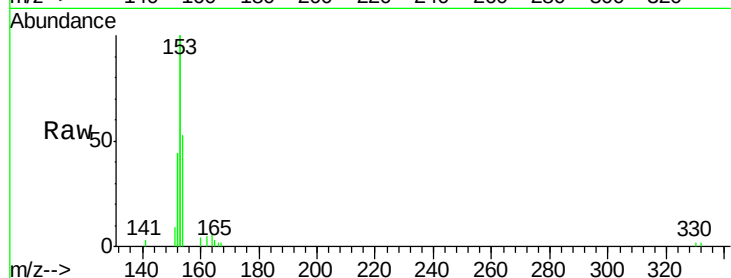
Lab File: BE089347.D

Acq: 8 Jan 2015 1:58

Instrument :

BNA_E

ClientSampled :



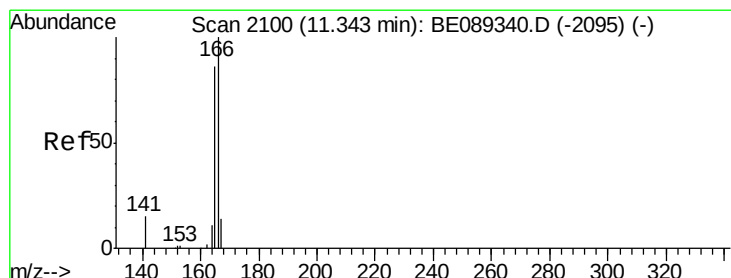
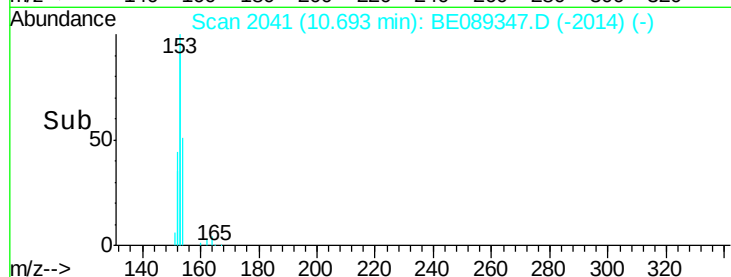
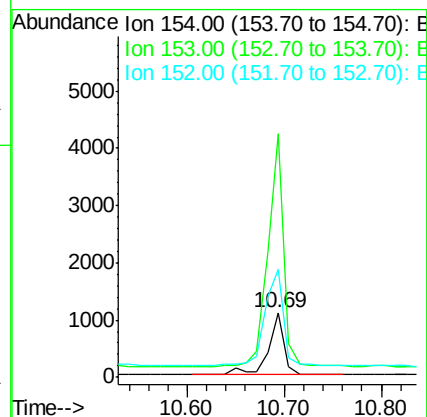
Tgt Ion:154 Resp: 1231

Ion Ratio Lower Upper

154 100

153 374.8 300.6 450.8

152 166.5 123.3 184.9



#10

Fluorene

Concen: 0.12 ng

RT: 11.34 min Scan# 2100

Delta R.T. -0.00 min

Lab File: BE089347.D

Acq: 8 Jan 2015 1:58

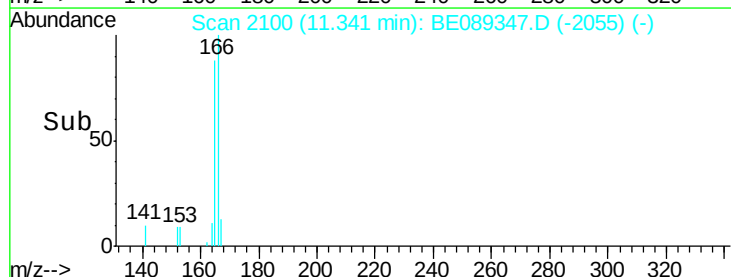
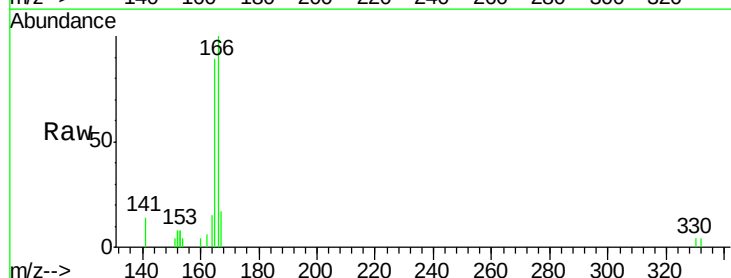
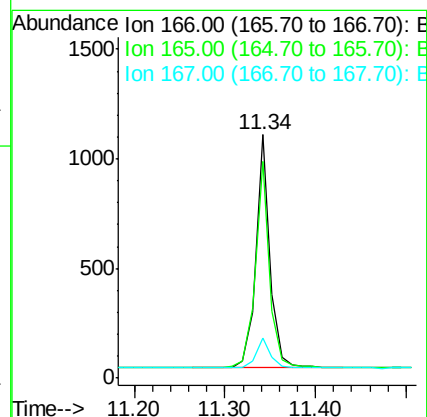
Tgt Ion:166 Resp: 1175

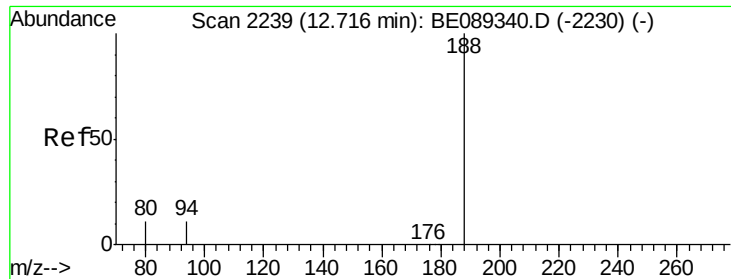
Ion Ratio Lower Upper

166 100

165 88.9 72.1 108.1

167 14.6 11.0 16.4

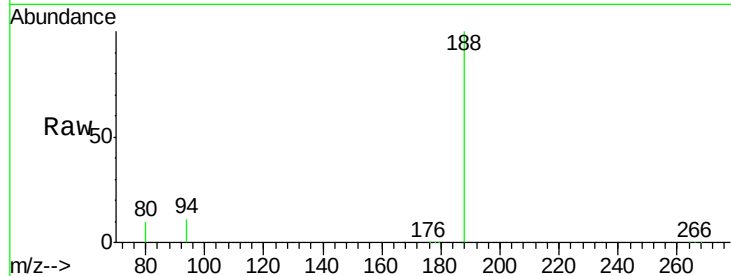




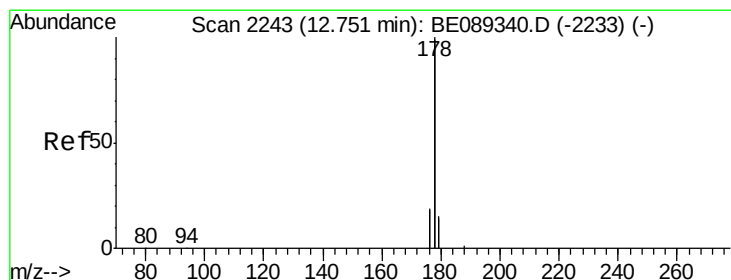
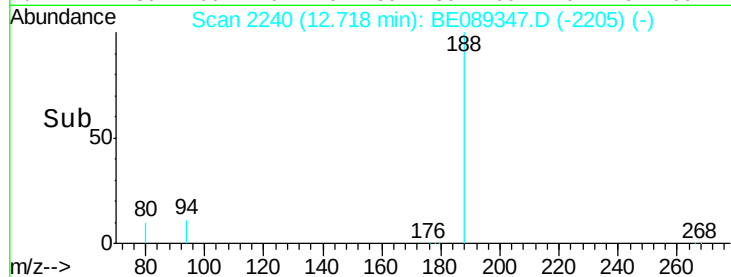
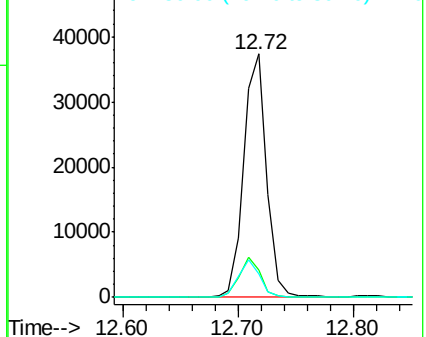
#11
Phenanthrene-d10
Concen: 5.00 ng
RT: 12.72 min Scan# 2240
Delta R.T. 0.00 min
Lab File: BE089347.D
Acq: 8 Jan 2015 1:58

Instrument :
BNA_E
ClientSampleId :

Tgt Ion:188 Resp: 51330
Ion Ratio Lower Upper
188 100
94 11.0 11.0 12.2#
80 9.8 10.1 11.1#

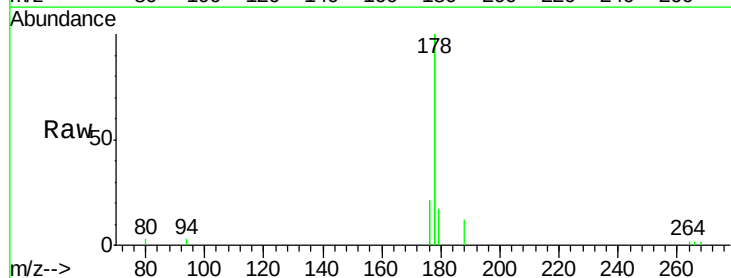


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BE0
Ion 80.00 (79.70 to 80.70): BE0

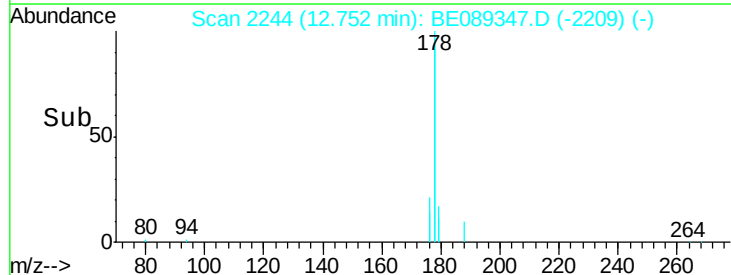
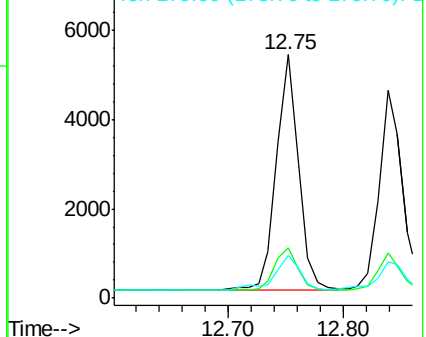


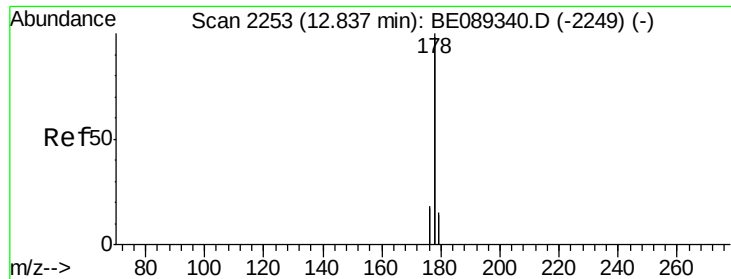
#12
Phenanthrene
Concen: 0.13 ng
RT: 12.75 min Scan# 2244
Delta R.T. 0.00 min
Lab File: BE089347.D
Acq: 8 Jan 2015 1:58

Tgt Ion:178 Resp: 7037
Ion Ratio Lower Upper
178 100
176 20.9 15.1 22.7
179 17.4 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





#13

Anthracene

Concen: 0.13 ng

RT: 12.84 min Scan# 2254

Delta R.T. 0.00 min

Lab File: BE089347.D

Acq: 8 Jan 2015 1:58

Instrument :

BNA_E

ClientSampleId :

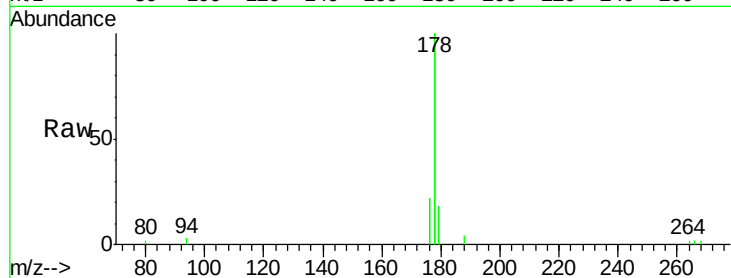
Tgt Ion:178 Resp: 6472

Ion Ratio Lower Upper

178 100

176 21.7 14.7 22.1

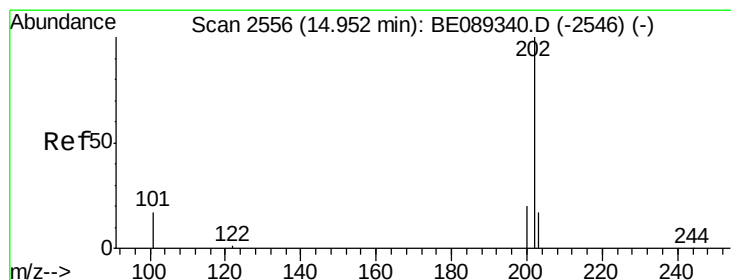
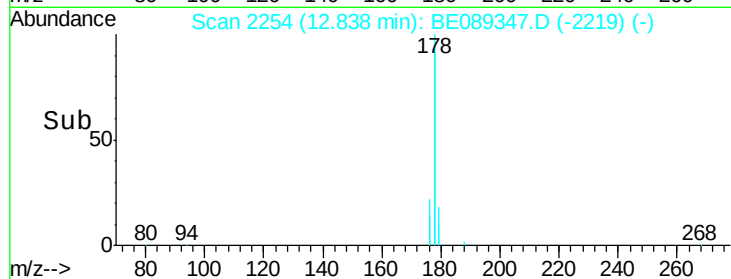
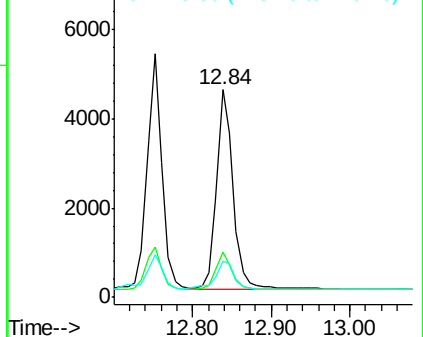
179 17.7 12.0 18.0



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

Fluoranthene

Concen: 0.13 ng

RT: 14.96 min Scan# 2558

Delta R.T. 0.01 min

Lab File: BE089347.D

Acq: 8 Jan 2015 1:58

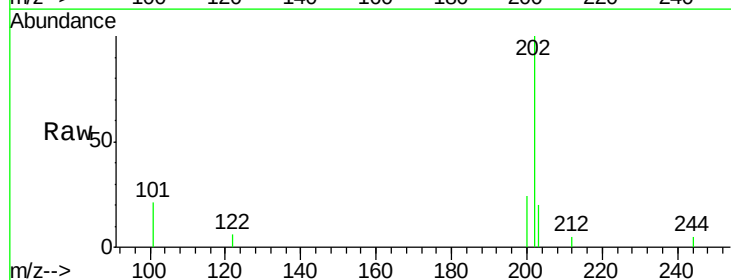
Tgt Ion:202 Resp: 1526

Ion Ratio Lower Upper

202 100

101 21.0 0.0 37.9

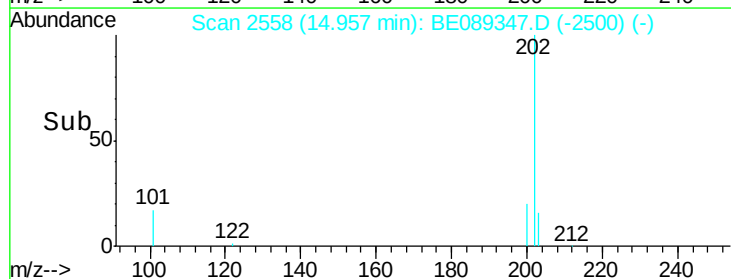
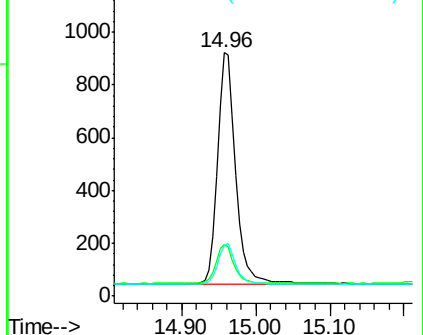
203 20.5 0.0 37.5

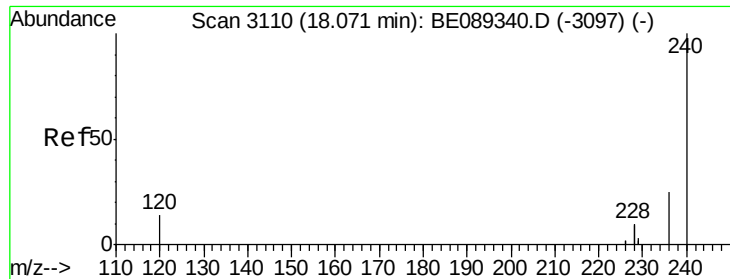


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#15

Chrysene-d12

Concen: 5.00 ng

RT: 18.06 min Scan# 3110

Delta R.T. -0.01 min

Lab File: BE089347.D

Acq: 8 Jan 2015 1:58

Instrument :

BNA_E

ClientSampled :

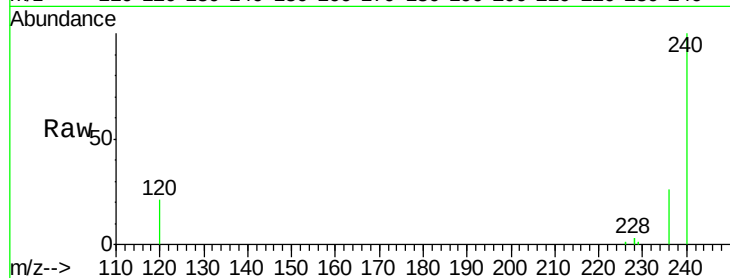
Tgt Ion:240 Resp: 39203

Ion Ratio Lower Upper

240 100

120 20.7 11.8 17.6#

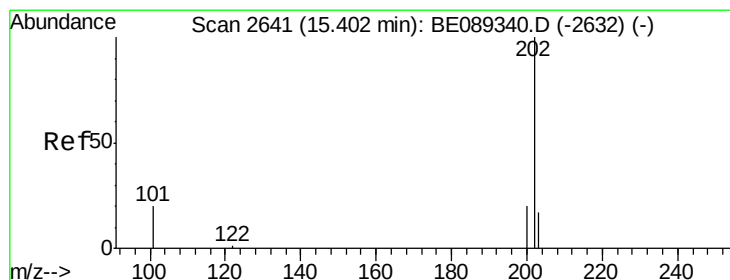
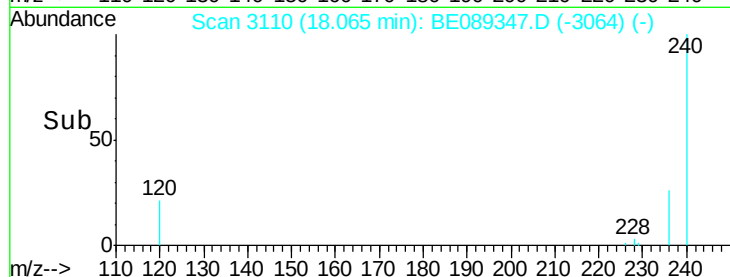
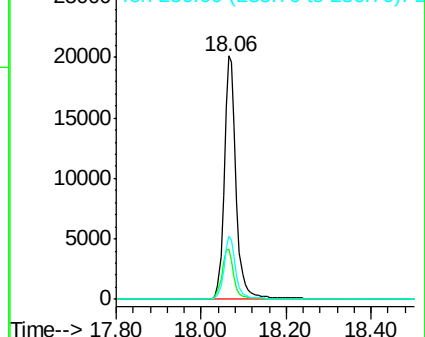
236 25.7 20.0 30.0



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



#16

Pyrene

Concen: 0.12 ng

RT: 15.41 min Scan# 2643

Delta R.T. 0.01 min

Lab File: BE089347.D

Acq: 8 Jan 2015 1:58

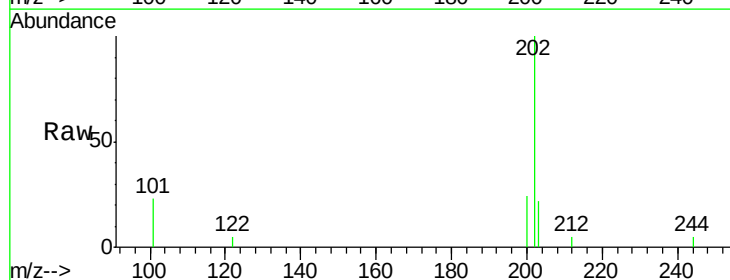
Tgt Ion:202 Resp: 1583

Ion Ratio Lower Upper

202 100

200 23.6 16.8 25.2

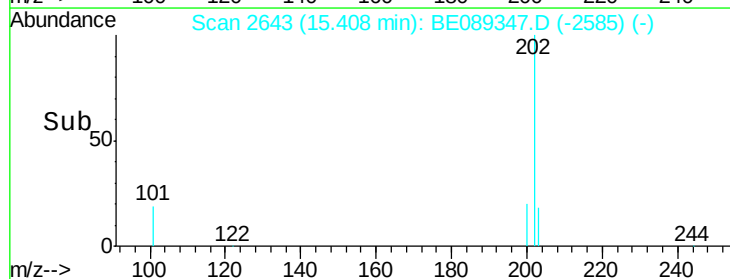
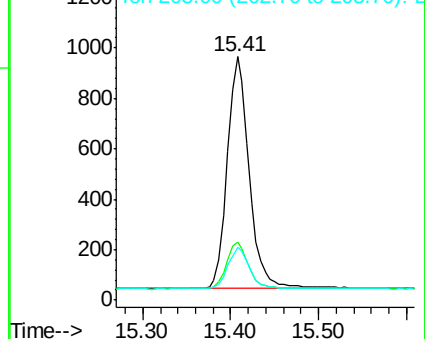
203 21.6 14.0 21.0#

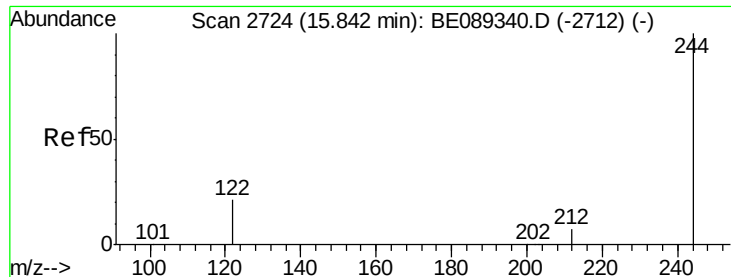


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

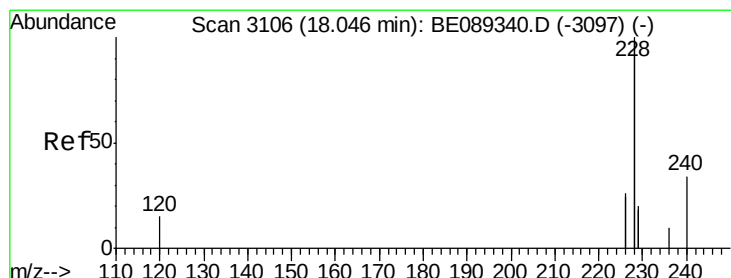
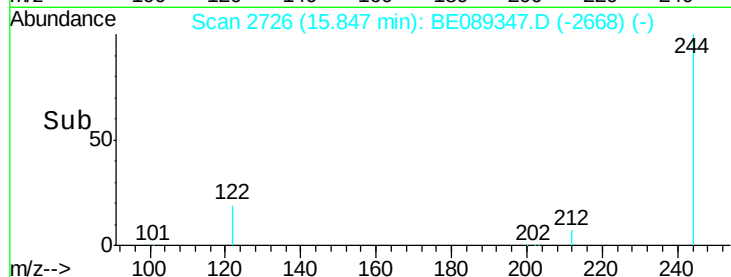
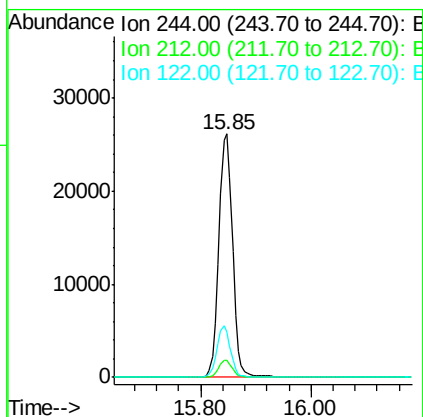
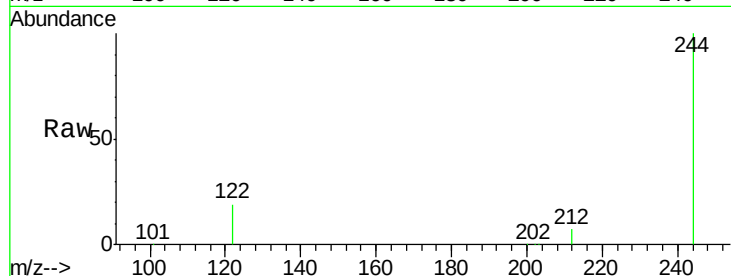




#17
 Terphenyl-d14
 Concen: 6.44 ng
 RT: 15.85 min Scan# 2726
 Delta R.T. 0.01 min
 Lab File: BE089347.D
 Acq: 8 Jan 2015 1:58

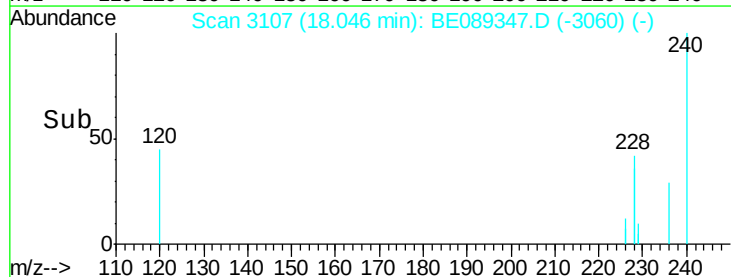
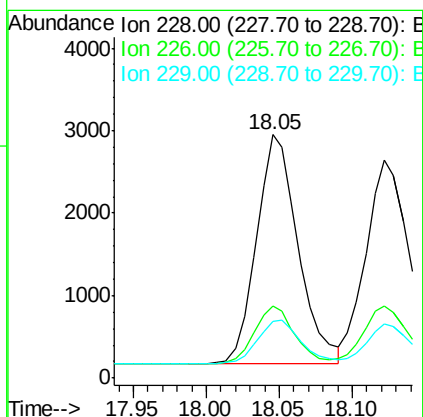
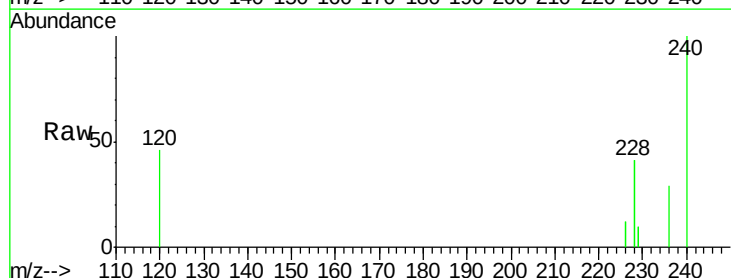
Instrument :
 BNA_E
 ClientSampleId :

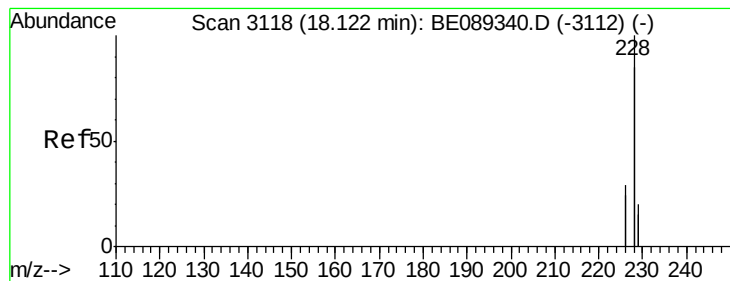
Tgt Ion:244 Resp: 44666
 Ion Ratio Lower Upper
 244 100
 212 6.8 6.3 9.5
 122 18.8 17.7 26.5



#18
 Benzo(a)anthracene
 Concen: 0.14 ng
 RT: 18.05 min Scan# 3107
 Delta R.T. -0.00 min
 Lab File: BE089347.D
 Acq: 8 Jan 2015 1:58

Tgt Ion:228 Resp: 5460
 Ion Ratio Lower Upper
 228 100
 226 29.7 21.0 31.6
 229 23.5 16.0 24.0





#19

Chrysene

Concen: 0.14 ng

RT: 18.05 min Scan# 3107

Delta R.T. -0.08 min

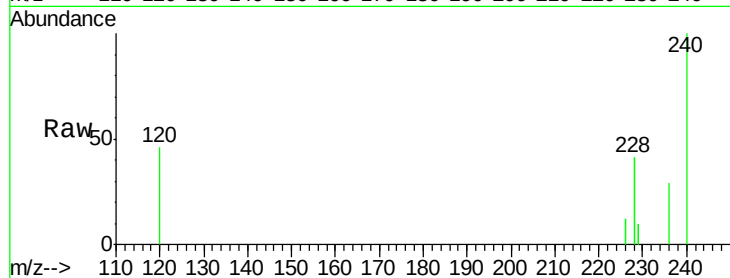
Lab File: BE089347.D

Acq: 8 Jan 2015 1:58

Instrument :

BNA_E

ClientSampleId :



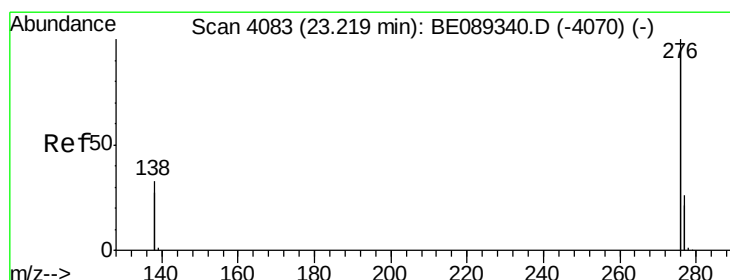
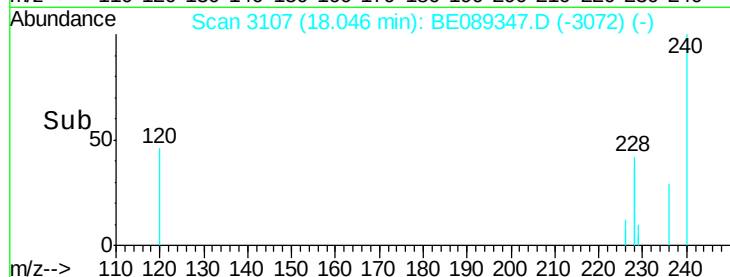
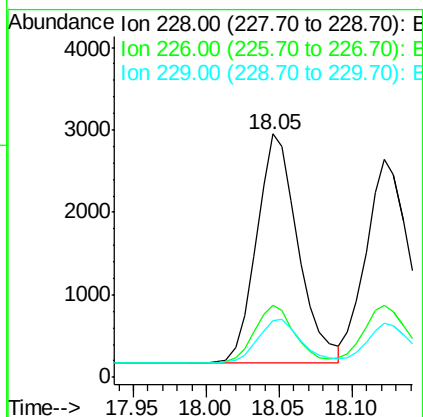
Tgt Ion: 228 Resp: 5460

Ion Ratio Lower Upper

228 100

226 29.7 23.5 35.3

229 23.5 16.1 24.1



#20

Indeno(1,2,3-cd)pyrene

Concen: 0.12 ng

RT: 23.23 min Scan# 4086

Delta R.T. 0.01 min

Lab File: BE089347.D

Acq: 8 Jan 2015 1:58

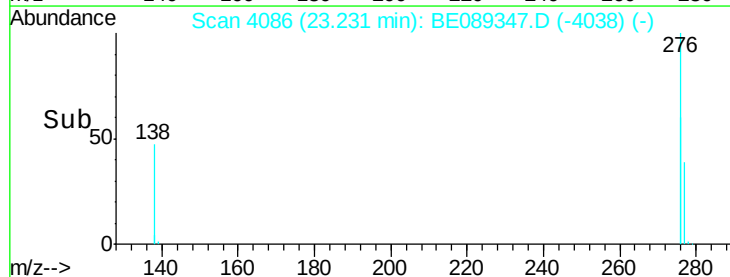
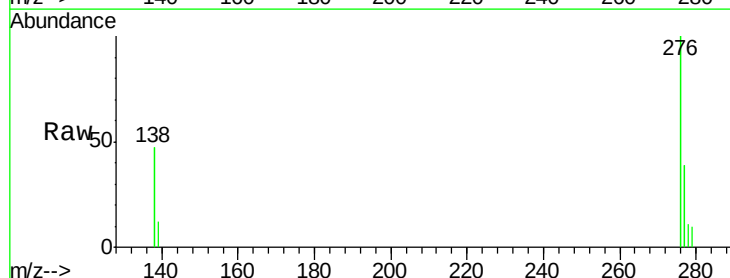
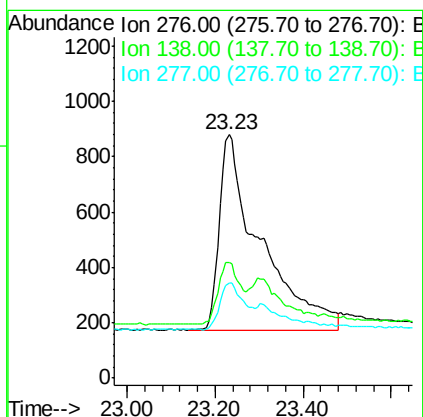
Tgt Ion: 276 Resp: 4594

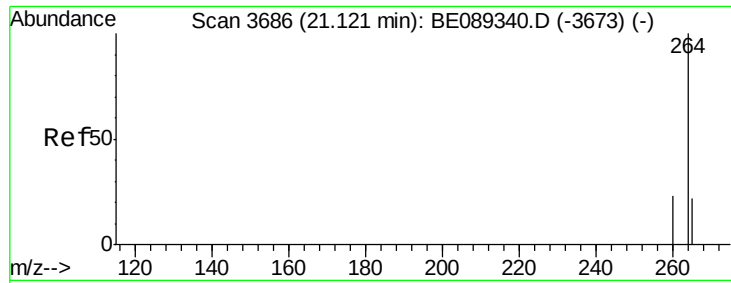
Ion Ratio Lower Upper

276 100

138 17.0 23.8 35.8#

277 14.5 18.2 27.4#

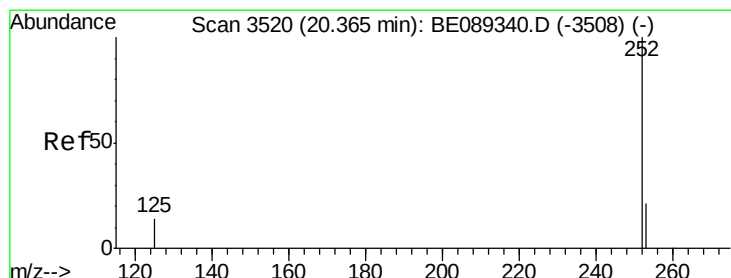
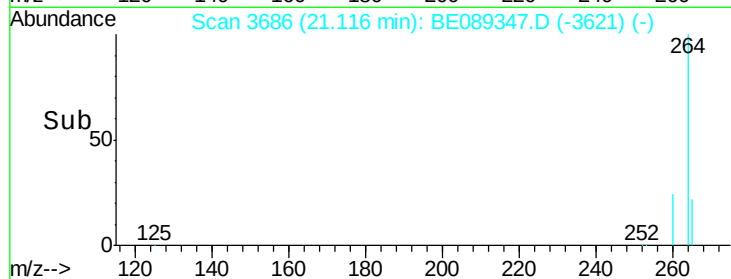
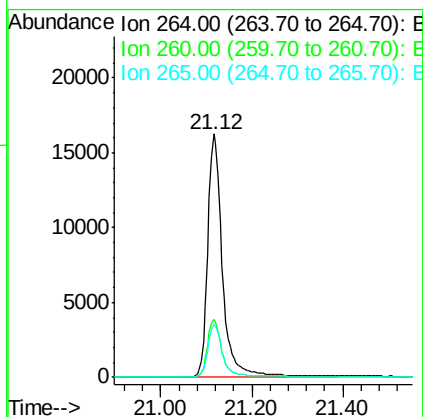
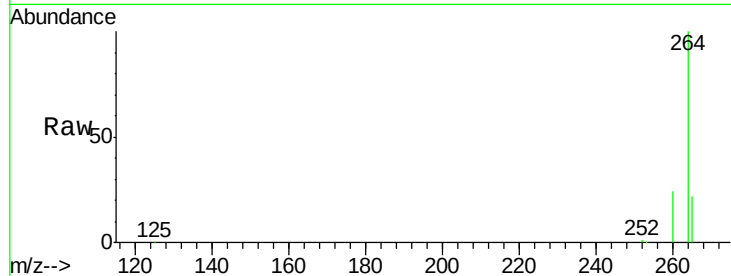




#21
 Perylene-d12
 Concen: 5.00 ng
 RT: 21.12 min Scan# 3686
 Delta R.T. -0.01 min
 Lab File: BE089347.D
 Acq: 8 Jan 2015 1:58

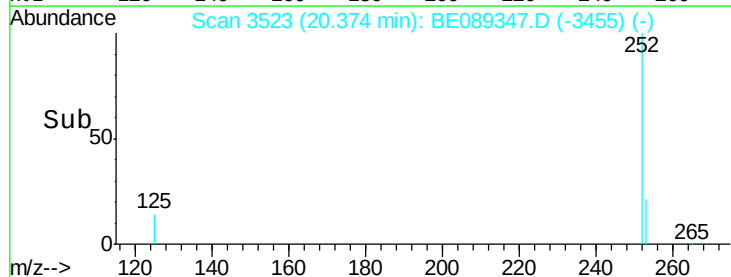
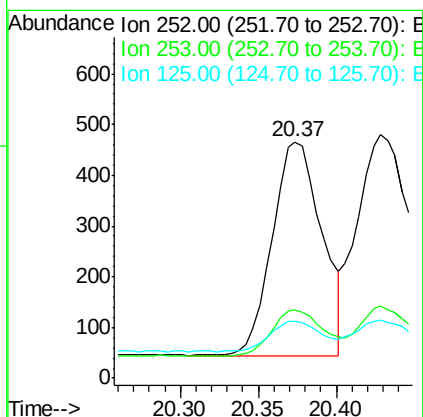
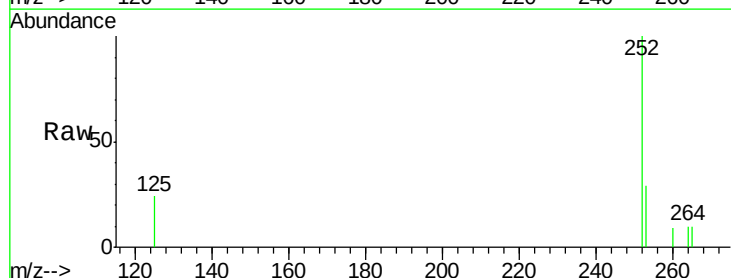
Instrument :
 BNA_E
 ClientSampleId :

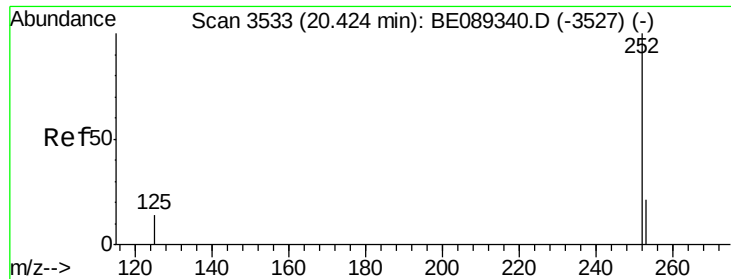
Tgt Ion: 264 Resp: 36028
 Ion Ratio Lower Upper
 264 100
 260 23.9 18.9 28.3
 265 21.8 17.4 26.2



#22
 Benzo(b)fluoranthene
 Concen: 0.12 ng
 RT: 20.37 min Scan# 3523
 Delta R.T. 0.01 min
 Lab File: BE089347.D
 Acq: 8 Jan 2015 1:58

Tgt Ion: 252 Resp: 928
 Ion Ratio Lower Upper
 252 100
 253 28.8 17.8 26.6#
 125 24.2 12.6 18.8#





#23

Benzo(k)fluoranthene

Concen: 0.14 ng

RT: 20.43 min Scan# 3535

Delta R.T. 0.00 min

Lab File: BE089347.D

Acq: 8 Jan 2015 1:58

Instrument :

BNA_E

ClientSampleId :

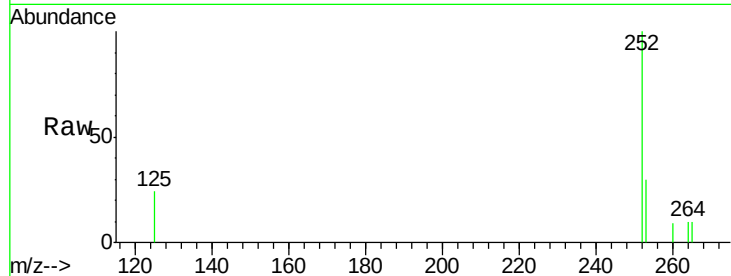
Tgt Ion:252 Resp: 1339

Ion Ratio Lower Upper

252 100

253 29.8 18.0 27.0#

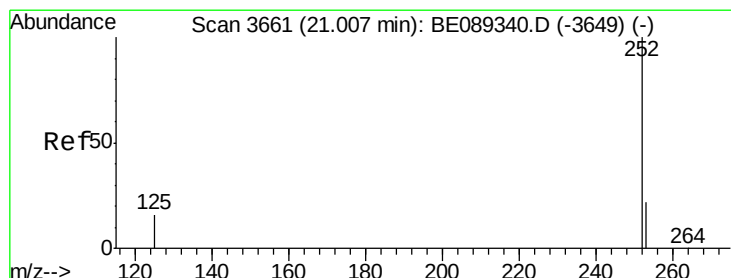
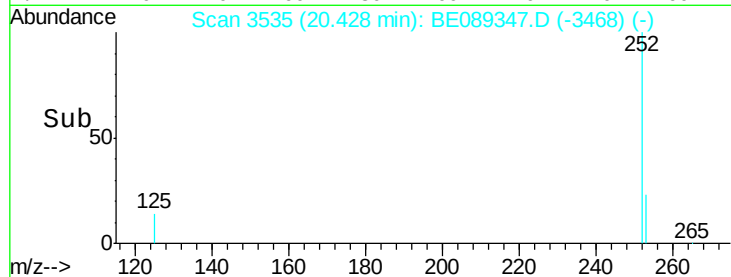
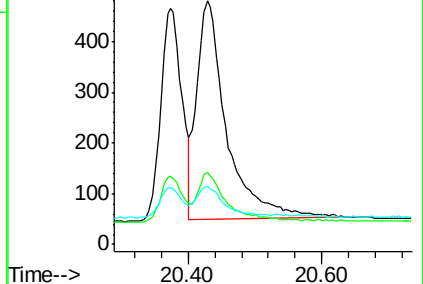
125 24.0 12.4 18.6#



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(a)pyrene

Concen: 0.13 ng

RT: 21.01 min Scan# 3662

Delta R.T. -0.00 min

Lab File: BE089347.D

Acq: 8 Jan 2015 1:58

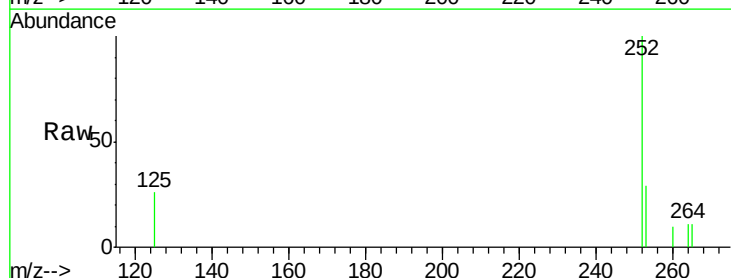
Tgt Ion:252 Resp: 974

Ion Ratio Lower Upper

252 100

253 29.3 18.3 27.5#

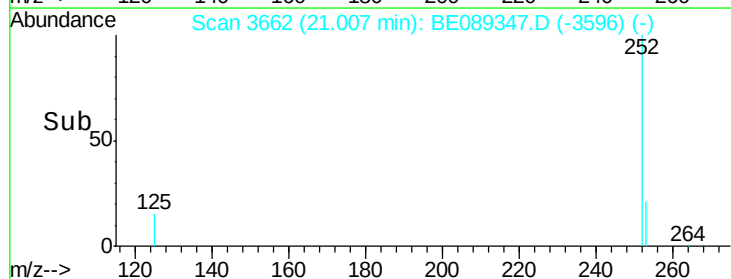
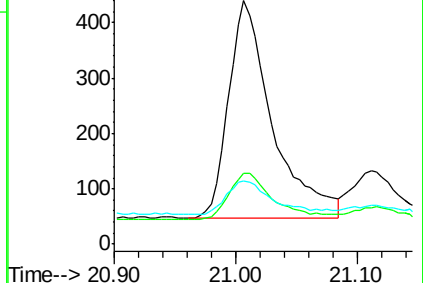
125 26.1 13.8 20.8#

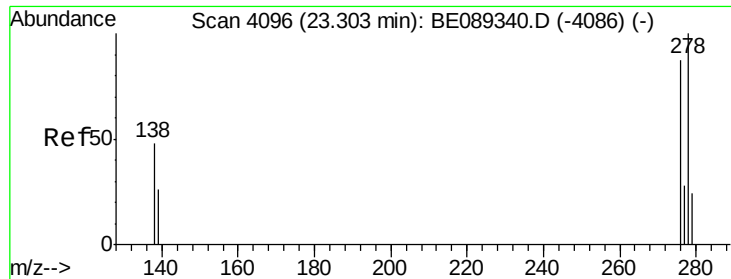


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



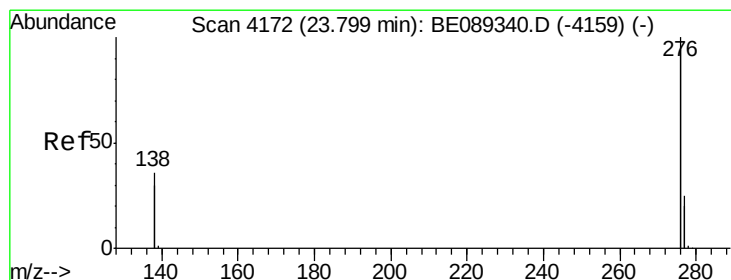
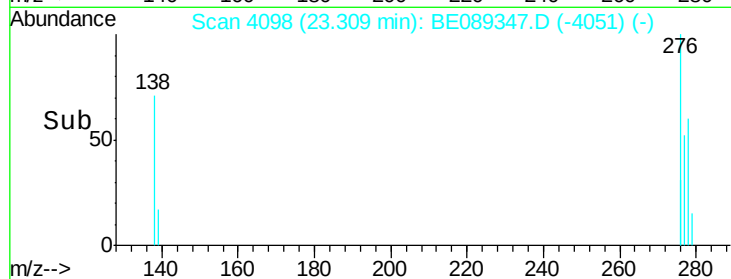
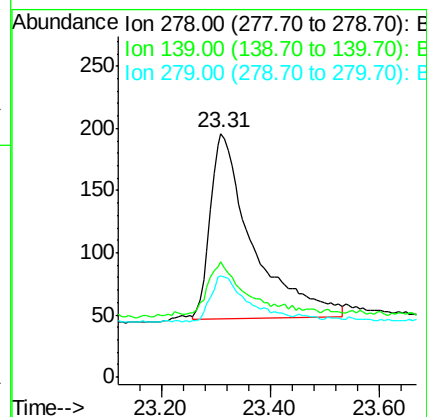
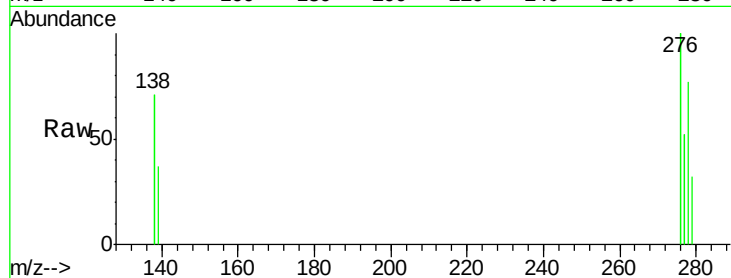


#25
Dibenzo(a,h)anthracene
Concen: 0.11 ng
RT: 23.31 min Scan# 4098
Delta R.T. 0.01 min
Lab File: BE089347.D
Acq: 8 Jan 2015 1:58

Instrument :
BNA_E
ClientSampleId :

Tgt Ion: 278 Resp: 793

Ion	Ratio	Lower	Upper
278	100		
139	47.4	22.9	34.3#
279	41.8	20.8	31.2#



#26
Benzo(g,h,i)perylene
Concen: 0.12 ng
RT: 23.82 min Scan# 4176
Delta R.T. 0.02 min
Lab File: BE089347.D
Acq: 8 Jan 2015 1:58

Tgt Ion: 276 Resp: 4364

Ion	Ratio	Lower	Upper
276	100		
277	36.0	20.0	30.0#
138	47.2	28.5	42.7#

