

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE013015\
 Data File : BE089480.D
 Acq On : 31 Jan 2015 22:37
 Operator : TP/IZ
 Sample : MDL-05-W
 Misc : MDL-WATER-0.2/0.4
 ALS Vial : 44 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: Feb 02 03:42:24 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	56292	5.00	ng	0.00
2) Naphthalene-d8	12.49	136	229550	5.00	ng	0.00
6) Acenaphthene-d10	16.69	164	111375	5.00	ng	-0.01
11) Phenanthrene-d10	19.99	188	179824	5.00	ng	0.00
16) Chrysene-d12	23.84	240	142710	5.00	ng	0.00
22) Perylene-d12	25.55	264	116101	5.00	ng	0.00

System Monitoring Compounds						
3) Nitrobenzene-d5	10.85	82	147253	9.69	ng	0.00
7) 2-Fluorobiphenyl	15.13	172	237974	8.11	ng	0.00
18) Terphenyl-d14	22.48	244	209448	9.80	ng	0.00

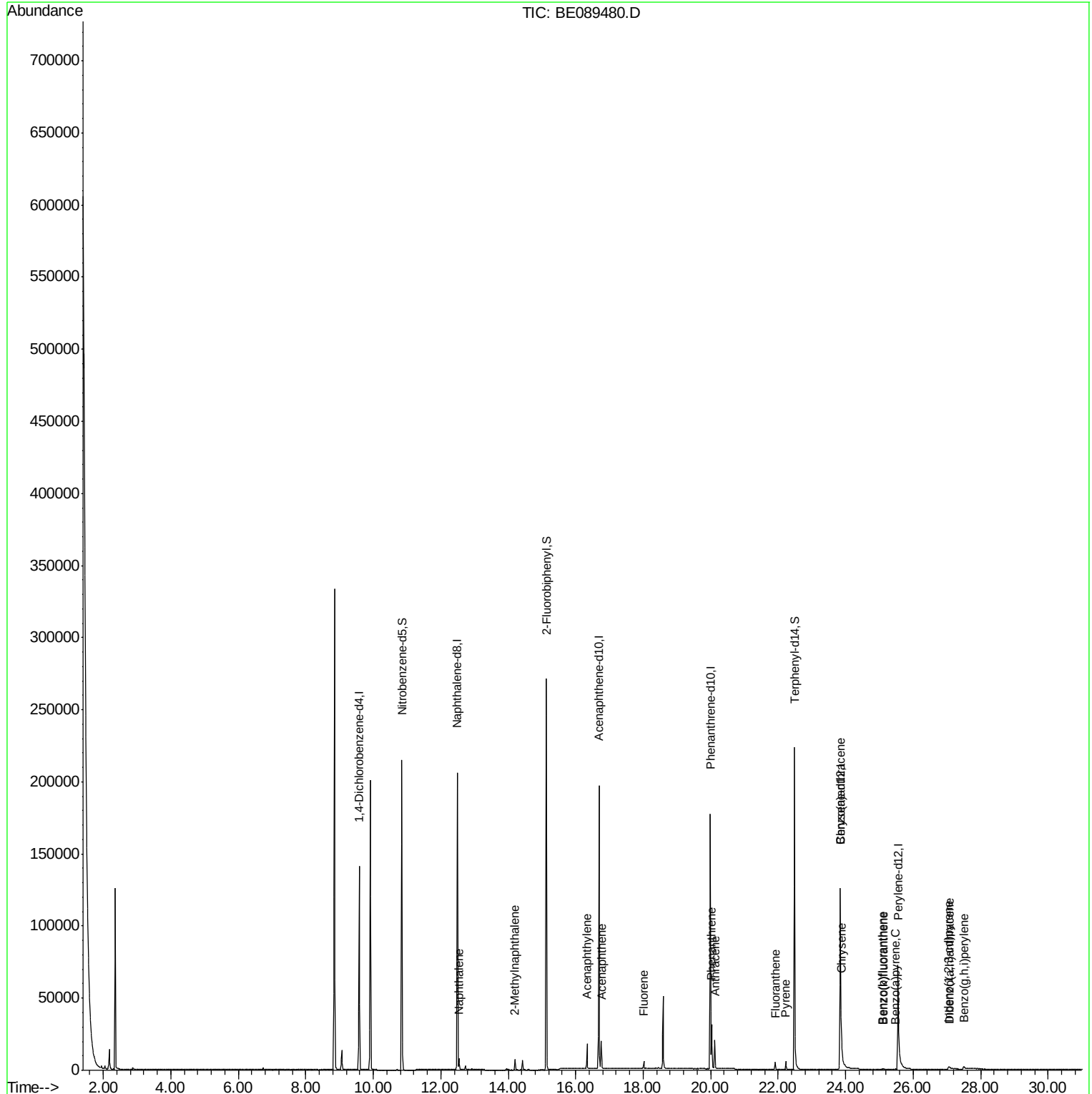
Target Compounds						Qvalue
4) Naphthalene	12.54	128	8272	0.15	ng	97
5) 2-Methylnaphthalene	14.20	142	4603	0.14	ng	94
8) Acenaphthylene	16.34	152	23717	0.12	ng	99
9) Acenaphthene	16.76	154	4073	0.14	ng	96
10) Fluorene	18.02	166	4212	0.13	ng	100
12) Pentachlorophenol	19.66	266	74	Below Cal		93
13) Phenanthrene	20.03	178	27300	0.15	ng	98
14) Anthracene	20.12	178	21373	0.13	ng	98
15) Fluoranthene	21.91	202	4619	0.12	ng	98
17) Pyrene	22.23	202	5152	0.14	ng	99
19) Benzo(a)anthracene	23.83	228	11418	0.09	ng	96
20) Chrysene	23.87	228	23310	0.17	ng	95
21) Indeno(1,2,3-cd)pyrene	27.05	276	3085	0.03	ng	95
23) Benzo(b)fluoranthene	25.10	252	746	0.22	ng	# 81
24) Benzo(k)fluoranthene	25.12	252	921	0.03	ng	# 80
25) Benzo(a)pyrene	25.48	252	873	0.16	ng	# 80
26) Dibenzo(a,h)anthracene	27.08	278	522	0.15	ng	# 60
27) Benzo(g,h,i)perylene	27.50	276	4209	0.05	ng	# 74

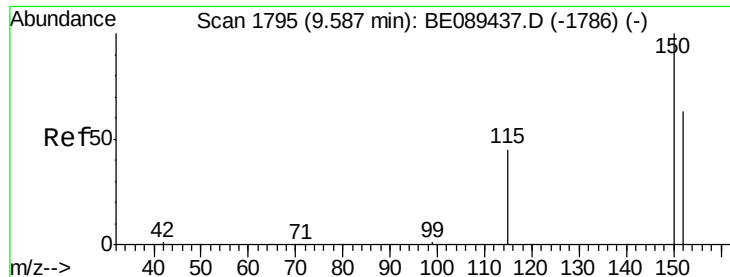
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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

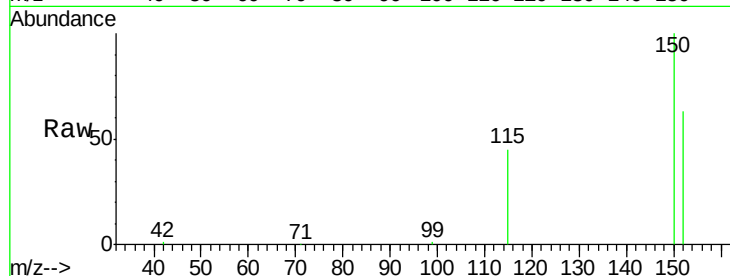
Lab File: BE089480.D

Acq: 31 Jan 2015 22:37

Instrument :

BNA_E

ClientSampleId :



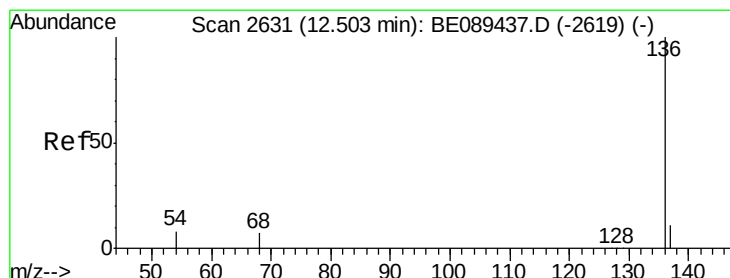
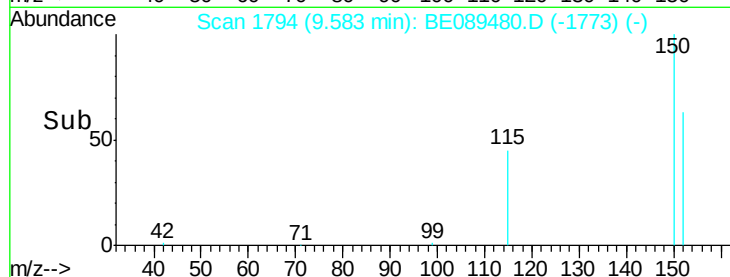
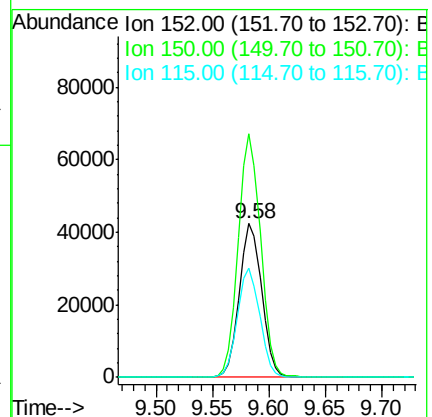
Tgt Ion:152 Resp: 56292

Ion Ratio Lower Upper

152 100

150 158.6 127.2 190.8

115 71.5 57.5 86.3



#2

Naphthalene-d8

Concen: 5.00 ng

RT: 12.49 min Scan# 2629

Delta R.T. -0.01 min

Lab File: BE089480.D

Acq: 31 Jan 2015 22:37

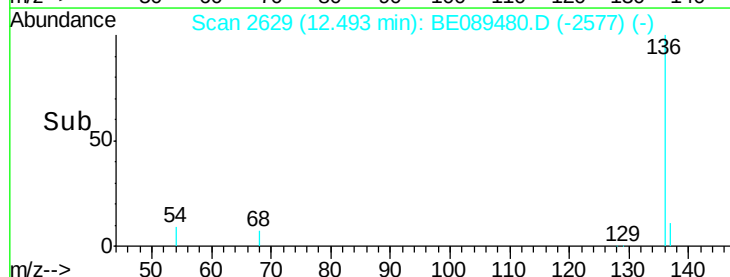
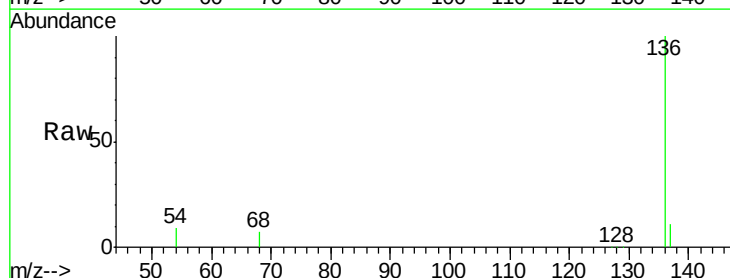
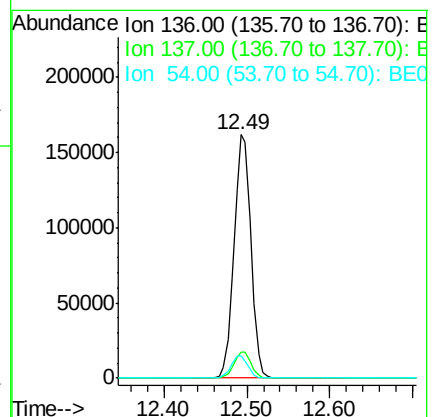
Tgt Ion:136 Resp: 229550

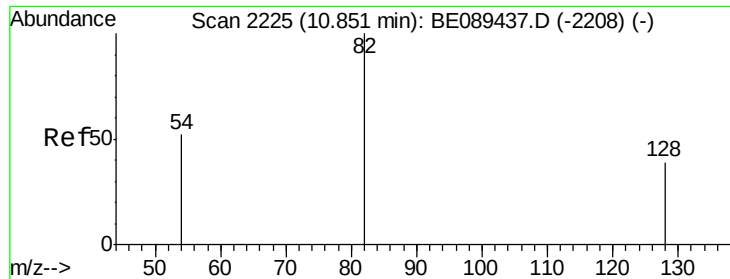
Ion Ratio Lower Upper

136 100

137 10.8 8.7 13.1

54 9.3 6.6 10.0





#3

Nitrobenzene-d5

Concen: 9.69 ng

RT: 10.85 min Scan# 2223

Delta R.T. -0.00 min

Lab File: BE089480.D

Acq: 31 Jan 2015 22:37

Instrument :

BNA_E

ClientSampleId :

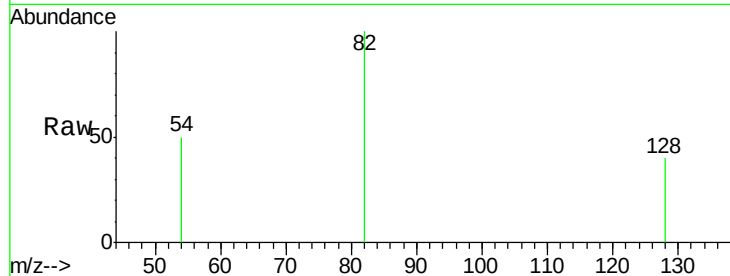
Tgt Ion: 82 Resp: 147253

Ion Ratio Lower Upper

82 100

128 40.3 31.2 46.8

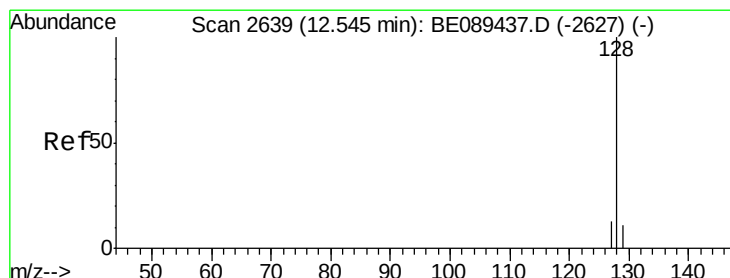
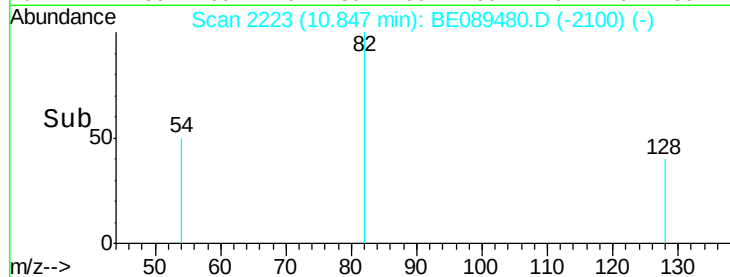
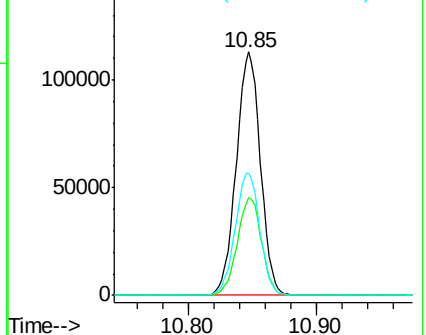
54 50.3 41.9 62.9



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: 0.15 ng

RT: 12.54 min Scan# 2638

Delta R.T. -0.00 min

Lab File: BE089480.D

Acq: 31 Jan 2015 22:37

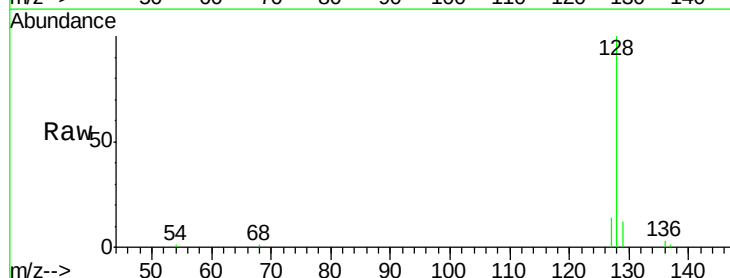
Tgt Ion: 128 Resp: 8272

Ion Ratio Lower Upper

128 100

129 12.0 8.8 13.2

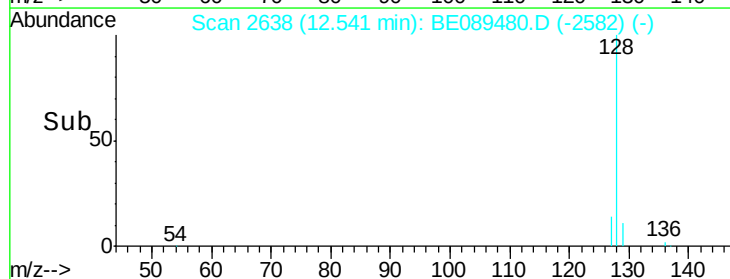
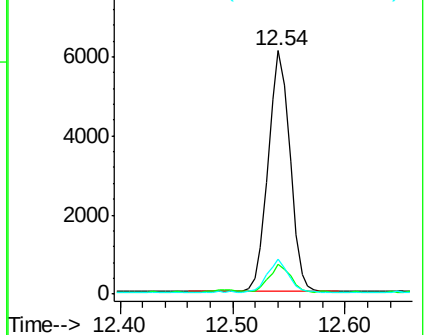
127 14.5 10.6 16.0

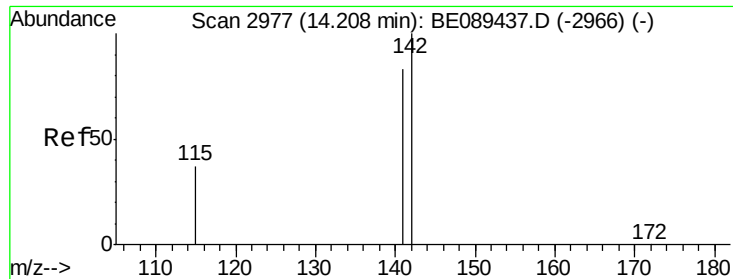


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E





#5

2-Methylnaphthalene

Concen: 0.14 ng

RT: 14.20 min Scan# 2976

Delta R.T. -0.01 min

Lab File: BE089480.D

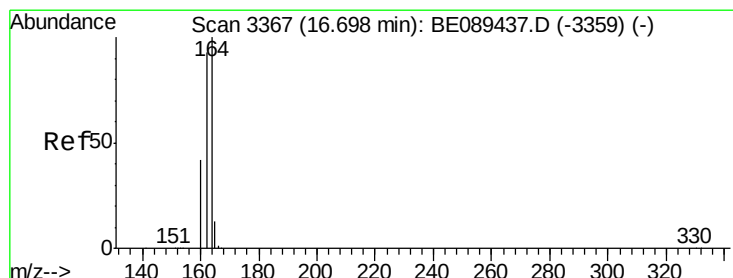
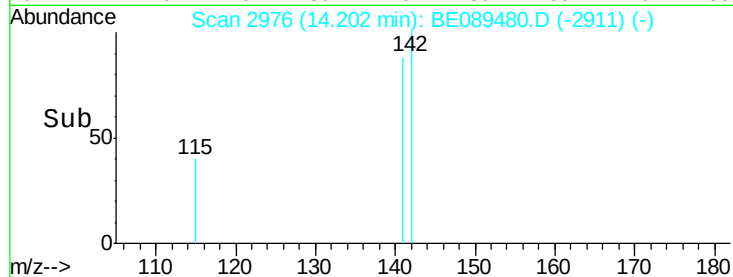
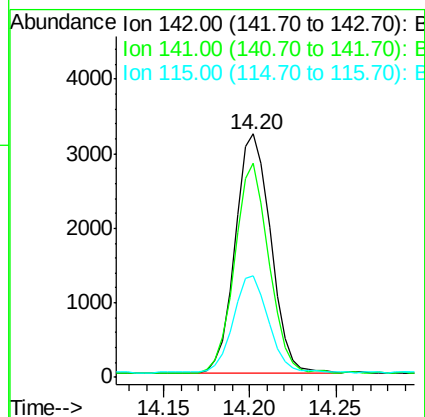
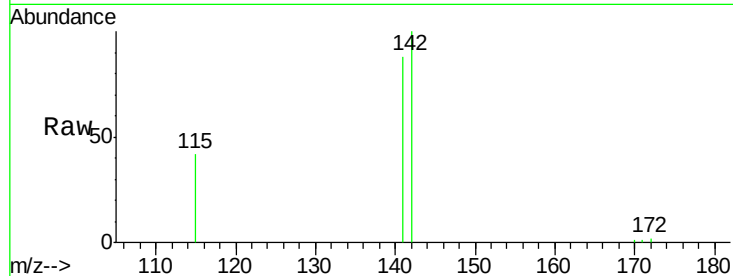
Acq: 31 Jan 2015 22:37

Instrument :

BNA_E

ClientSampleId :

Tgt Ion:	142	Resp:	4603
Ion Ratio	Lower	Upper	
142	100		
141	87.8	66.1	99.1
115	41.7	29.9	44.9



#6

Acenaphthene-d10

Concen: 5.00 ng

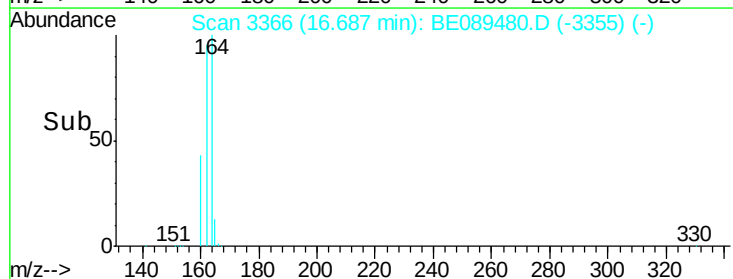
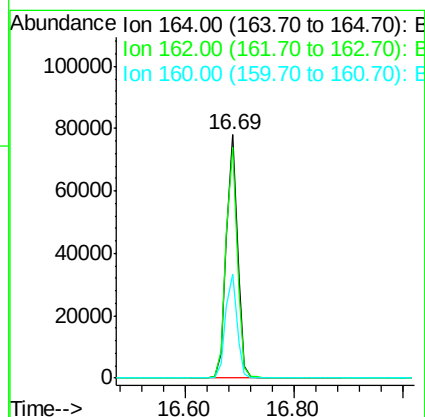
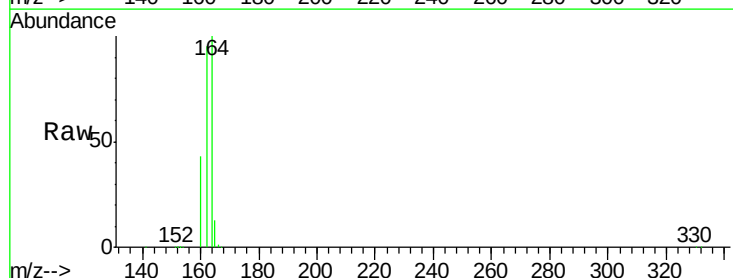
RT: 16.69 min Scan# 3366

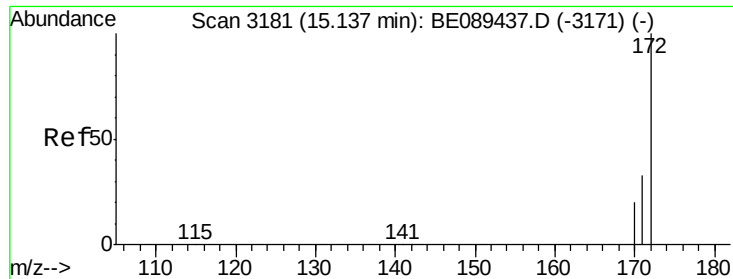
Delta R.T. -0.01 min

Lab File: BE089480.D

Acq: 31 Jan 2015 22:37

Tgt Ion:	164	Resp:	111375
Ion Ratio	Lower	Upper	
164	100		
162	94.9	74.7	112.1
160	42.7	33.4	50.0





#7

2-Fluorobiphenyl

Concen: 8.11 ng

RT: 15.13 min Scan# 3180

Delta R.T. -0.01 min

Lab File: BE089480.D

Acq: 31 Jan 2015 22:37

Instrument :

BNA_E

ClientSampleId :

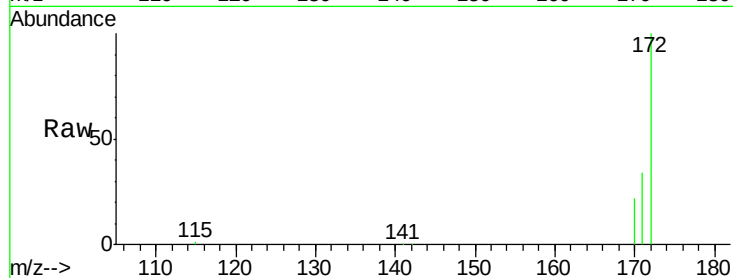
Tgt Ion:172 Resp: 237974

Ion Ratio Lower Upper

172 100

171 33.9 26.2 39.4

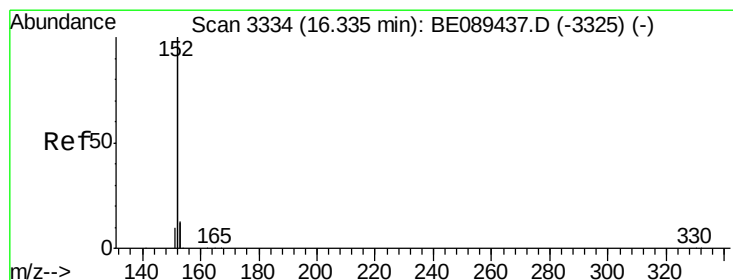
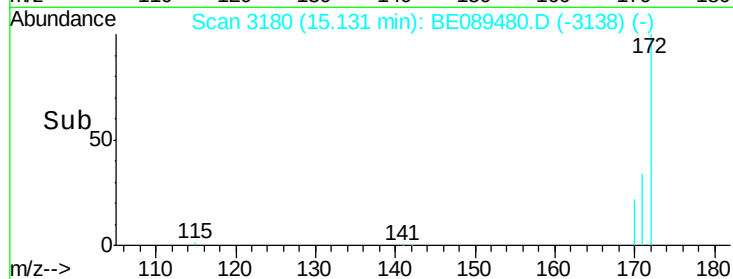
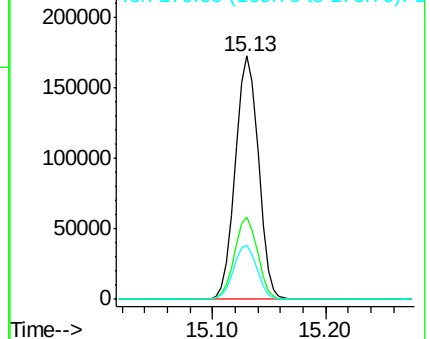
170 22.3 16.5 24.7



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: 0.12 ng

RT: 16.34 min Scan# 3334

Delta R.T. 0.00 min

Lab File: BE089480.D

Acq: 31 Jan 2015 22:37

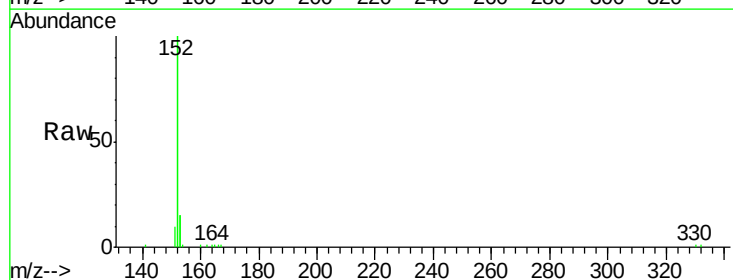
Tgt Ion:152 Resp: 23717

Ion Ratio Lower Upper

152 100

151 5.2 3.9 5.9

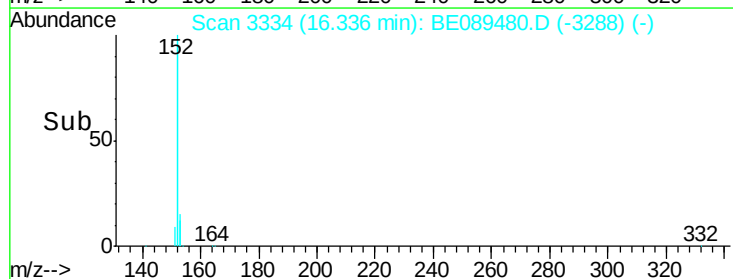
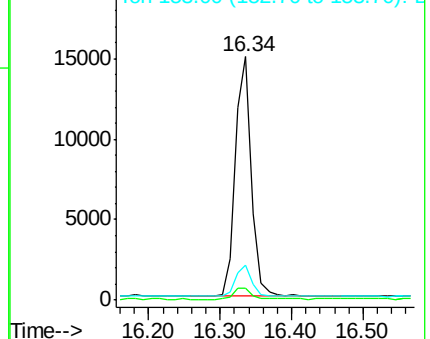
153 13.5 10.3 15.5

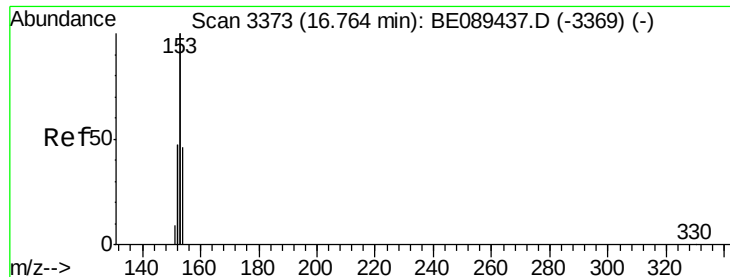


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#9

Acenaphthene

Concen: 0.14 ng

RT: 16.76 min Scan# 3373

Delta R.T. 0.00 min

Lab File: BE089480.D

Acq: 31 Jan 2015 22:37

Instrument :

BNA_E

ClientSampled :

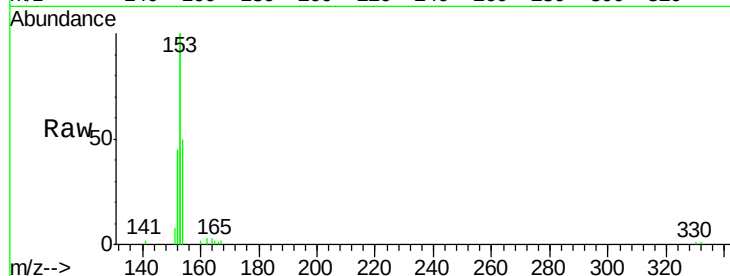
Tgt Ion:154 Resp: 4073

Ion Ratio Lower Upper

154 100

153 424.8 342.3 513.5

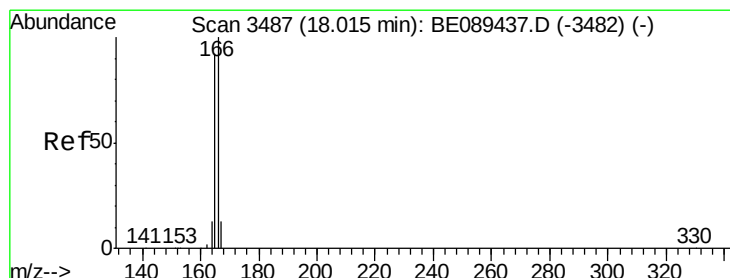
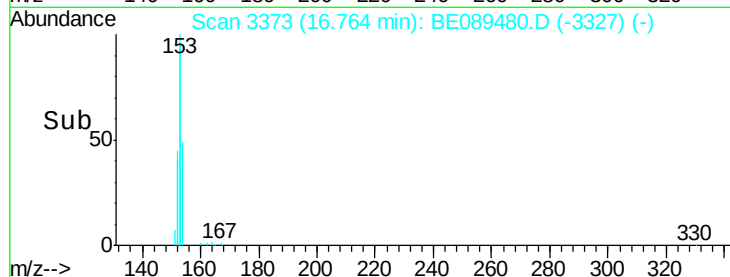
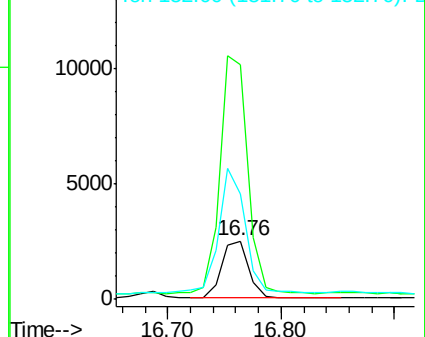
152 220.9 165.5 248.3



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: 0.13 ng

RT: 18.02 min Scan# 3487

Delta R.T. 0.00 min

Lab File: BE089480.D

Acq: 31 Jan 2015 22:37

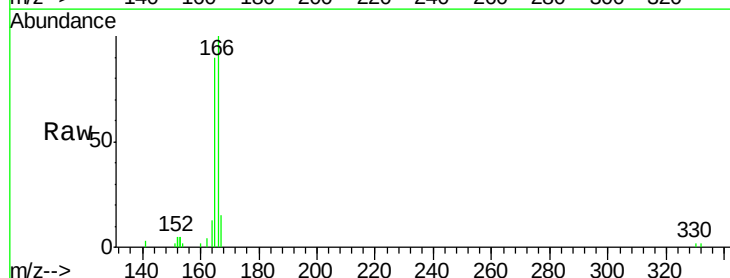
Tgt Ion:166 Resp: 4212

Ion Ratio Lower Upper

166 100

165 92.9 74.4 111.6

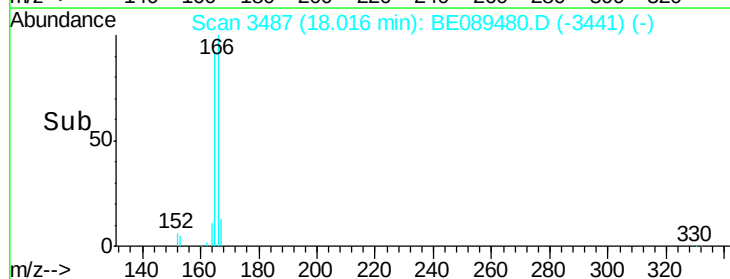
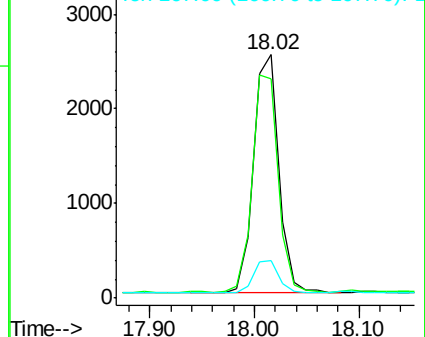
167 14.0 10.6 15.8

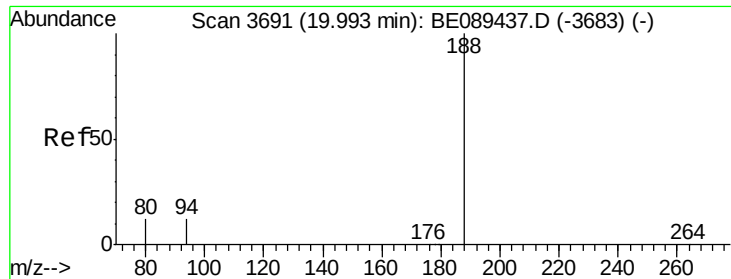


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

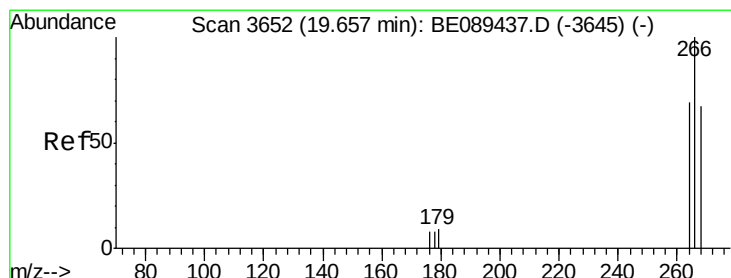
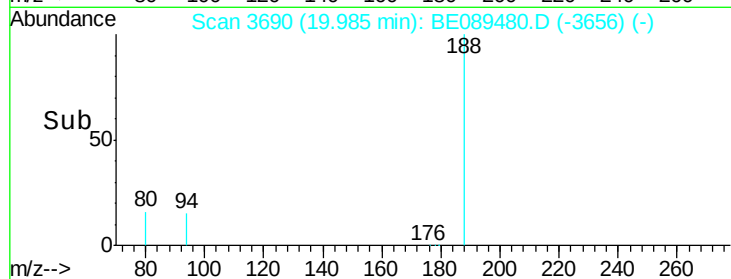
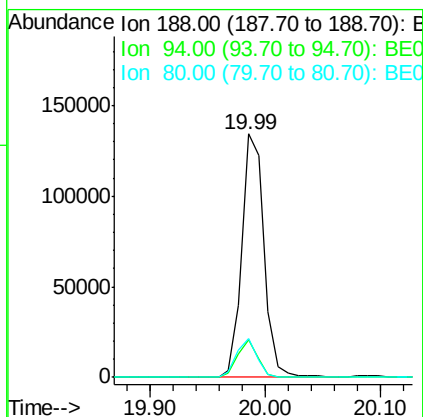
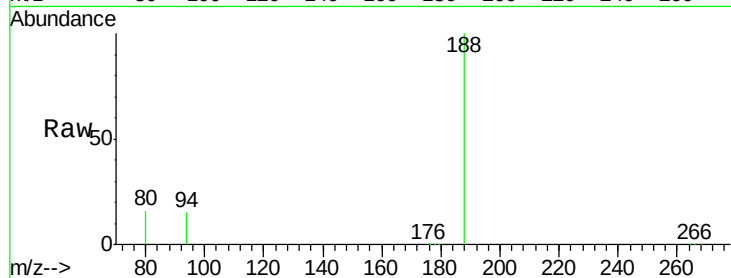




#11
Phenanthrene-d10
Concen: 5.00 ng
RT: 19.99 min Scan# 3690
Delta R.T. -0.01 min
Lab File: BE089480.D
Acq: 31 Jan 2015 22:37

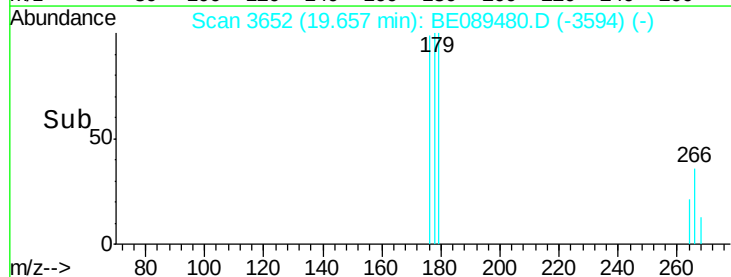
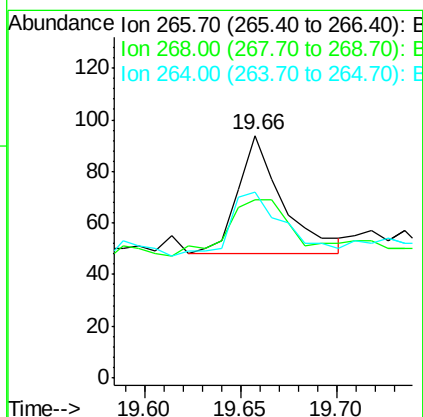
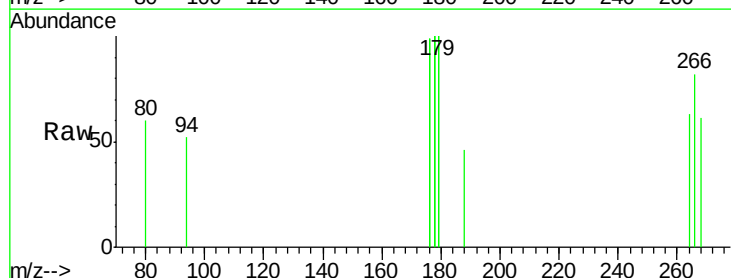
Instrument :
BNA_E
ClientSampleId :

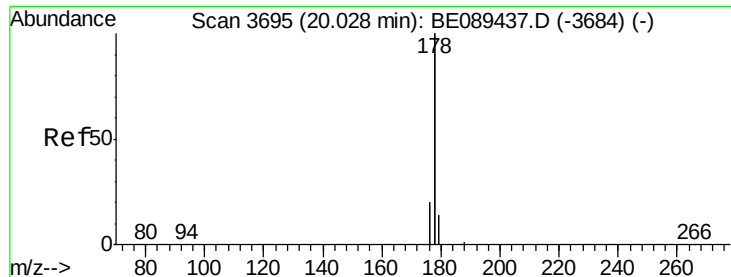
Tgt Ion:188 Resp: 179824
Ion Ratio Lower Upper
188 100
94 15.2 9.4 14.0#
80 16.2 9.3 13.9#



#12
Pentachlorophenol
Concen: Below Cal
RT: 19.66 min Scan# 3652
Delta R.T. 0.00 min
Lab File: BE089480.D
Acq: 31 Jan 2015 22:37

Tgt Ion:266 Resp: 74
Ion Ratio Lower Upper
266 100
268 73.4 54.2 81.4
264 76.6 56.2 84.2





#13

Phenanthrene

Concen: 0.15 ng

RT: 20.03 min Scan# 3695

Delta R.T. 0.00 min

Lab File: BE089480.D

Acq: 31 Jan 2015 22:37

Instrument :

BNA_E

ClientSampleId :

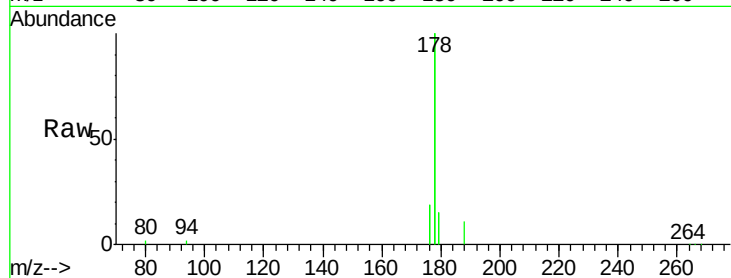
Tgt Ion:178 Resp: 27300

Ion Ratio Lower Upper

178 100

176 18.6 15.1 22.7

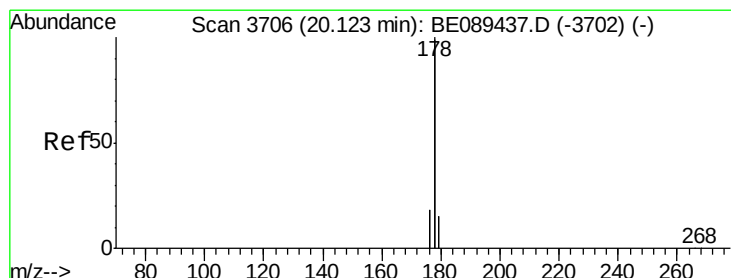
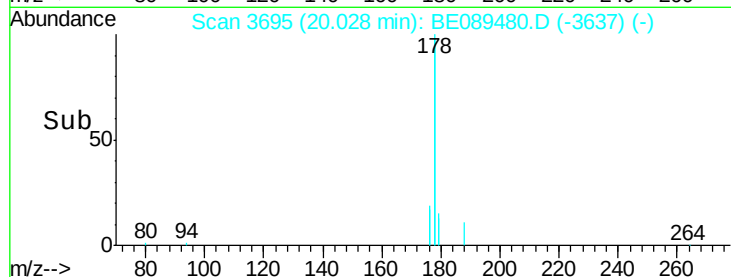
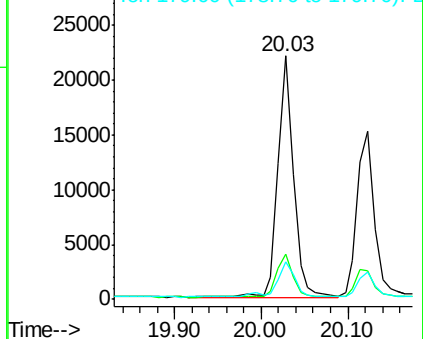
179 17.3 12.3 18.5



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



#14

Anthracene

Concen: 0.13 ng

RT: 20.12 min Scan# 3706

Delta R.T. 0.00 min

Lab File: BE089480.D

Acq: 31 Jan 2015 22:37

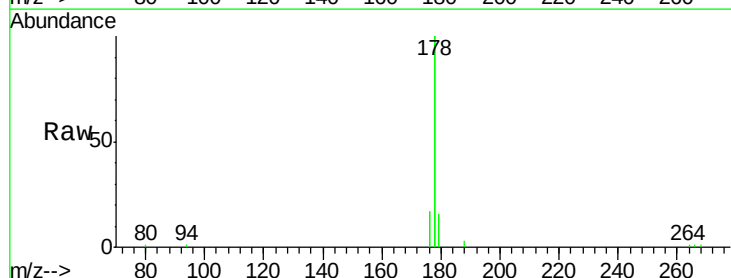
Tgt Ion:178 Resp: 21373

Ion Ratio Lower Upper

178 100

176 17.9 14.6 22.0

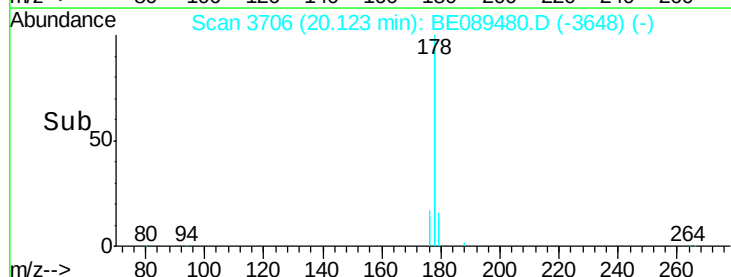
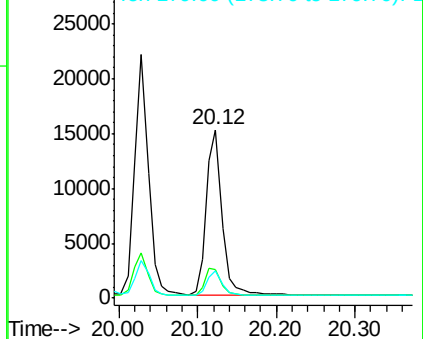
179 14.2 12.2 18.2

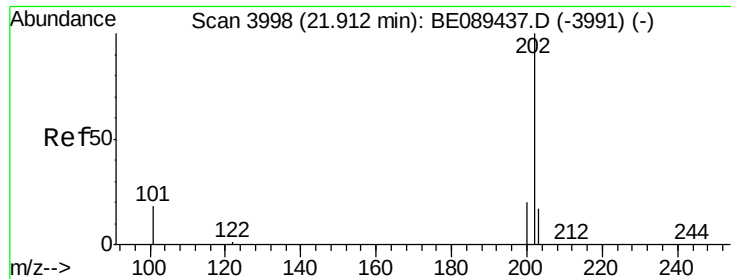


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

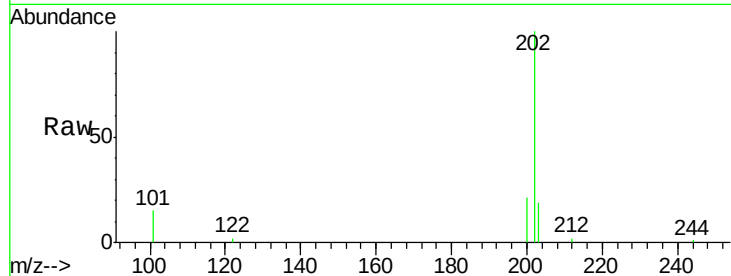




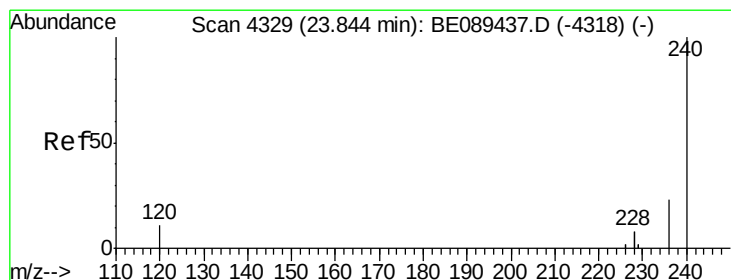
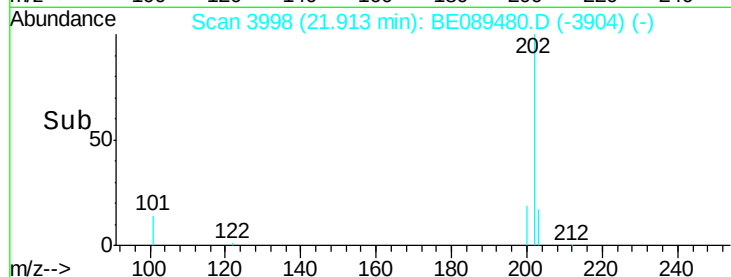
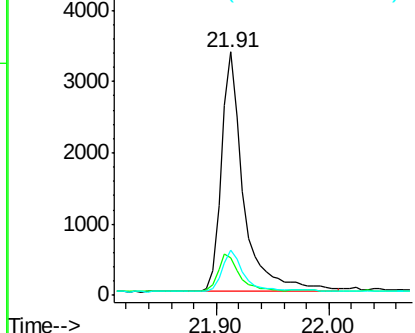
#15
 Fluoranthene
 Concen: 0.12 ng
 RT: 21.91 min Scan# 3998
 Delta R.T. 0.00 min
 Lab File: BE089480.D
 Acq: 31 Jan 2015 22:37

Instrument :
 BNA_E
 ClientSampleId :

Tgt Ion:202 Resp: 4619
 Ion Ratio Lower Upper
 202 100
 101 15.6 13.6 20.4
 203 17.7 13.8 20.6

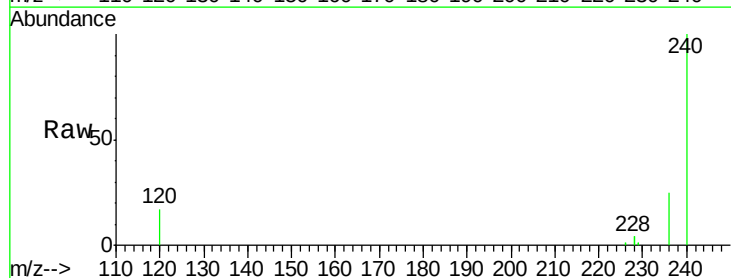


Abundance Ion 202.00 (201.70 to 202.70): E
 Ion 101.00 (100.70 to 101.70): E
 Ion 203.00 (202.70 to 203.70): E

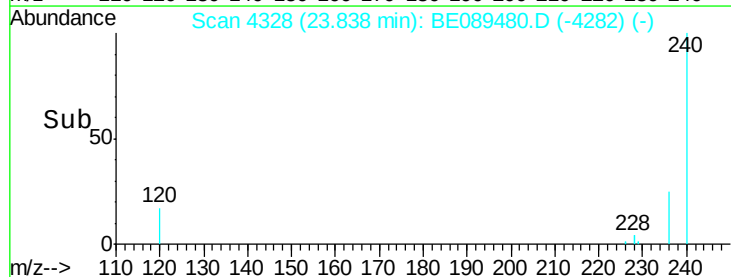
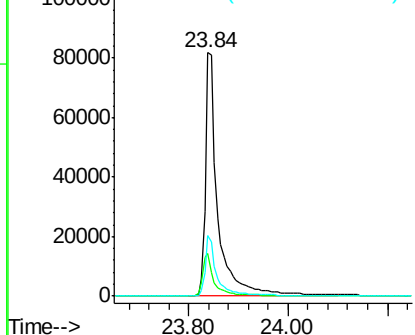


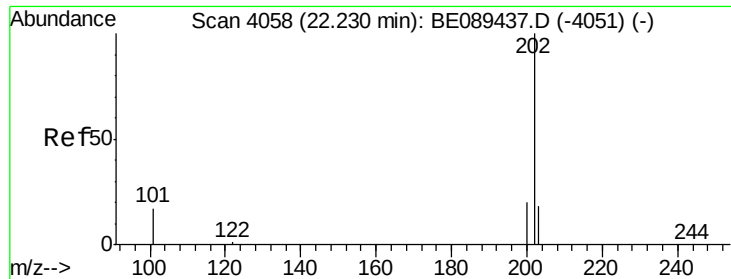
#16
 Chrysene-d12
 Concen: 5.00 ng
 RT: 23.84 min Scan# 4328
 Delta R.T. -0.01 min
 Lab File: BE089480.D
 Acq: 31 Jan 2015 22:37

Tgt Ion:240 Resp: 142710
 Ion Ratio Lower Upper
 240 100
 120 17.4 8.6 13.0#
 236 25.0 18.7 28.1



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

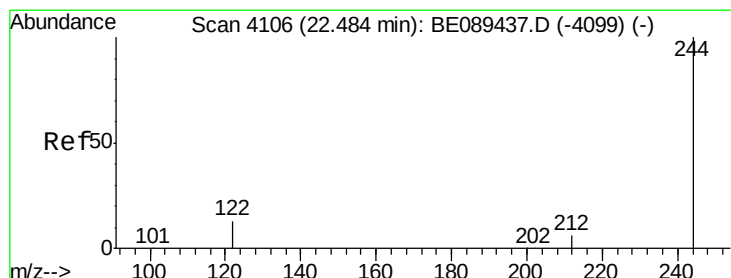
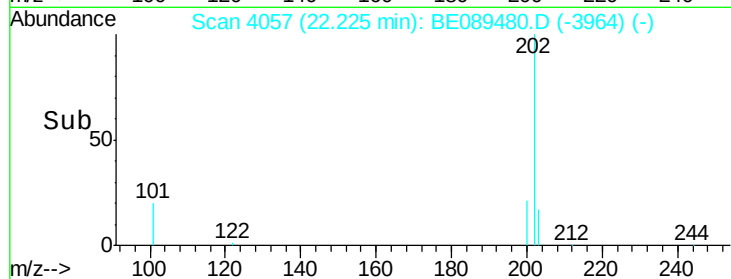
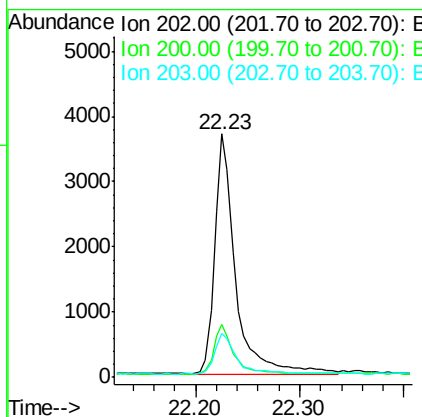
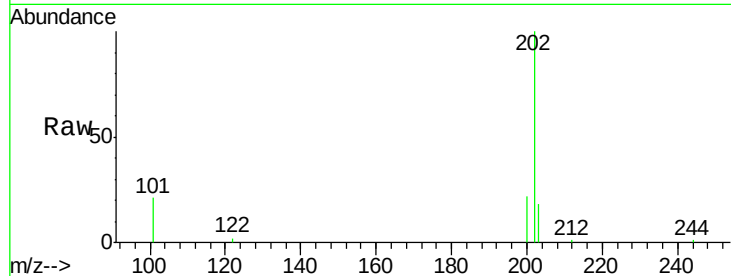




#17
 Pyrene
 Concen: 0.14 ng
 RT: 22.23 min Scan# 4057
 Delta R.T. -0.00 min
 Lab File: BE089480.D
 Acq: 31 Jan 2015 22:37

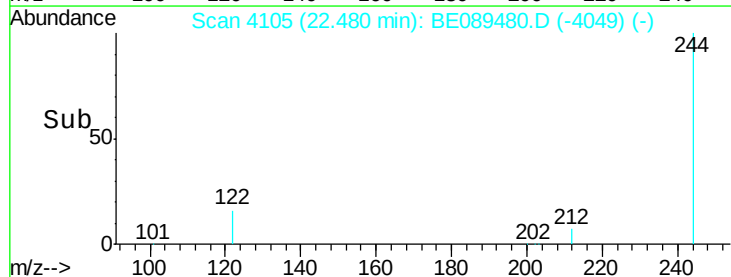
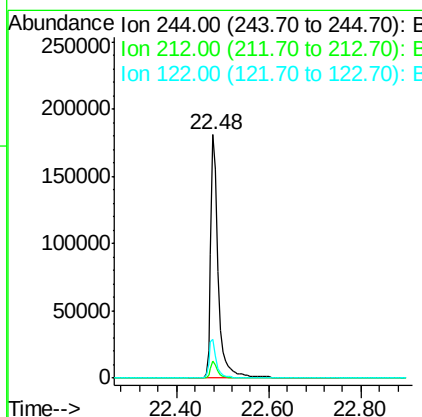
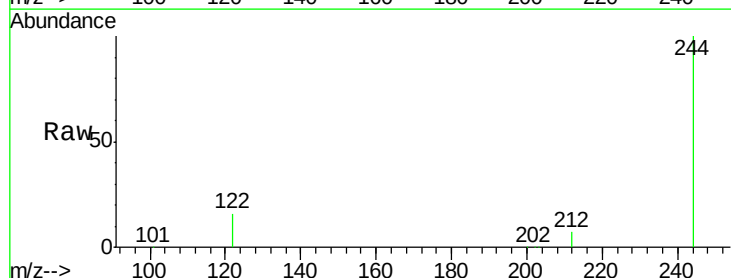
Instrument :
 BNA_E
 ClientSampled :

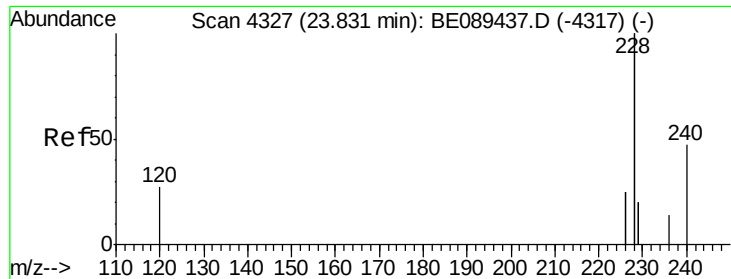
Tgt Ion: 202 Resp: 5152
 Ion Ratio Lower Upper
 202 100
 200 20.4 16.2 24.4
 203 18.2 13.8 20.8



#18
 Terphenyl-d14
 Concen: 9.80 ng
 RT: 22.48 min Scan# 4105
 Delta R.T. -0.00 min
 Lab File: BE089480.D
 Acq: 31 Jan 2015 22:37

Tgt Ion: 244 Resp: 209448
 Ion Ratio Lower Upper
 244 100
 212 6.9 5.0 7.6
 122 16.0 10.2 15.4#





#19

Benzo(a)anthracene

Concen: 0.09 ng

RT: 23.83 min Scan# 4327

Delta R.T. 0.00 min

Lab File: BE089480.D

Acq: 31 Jan 2015 22:37

Instrument :

BNA_E

ClientSampleId :

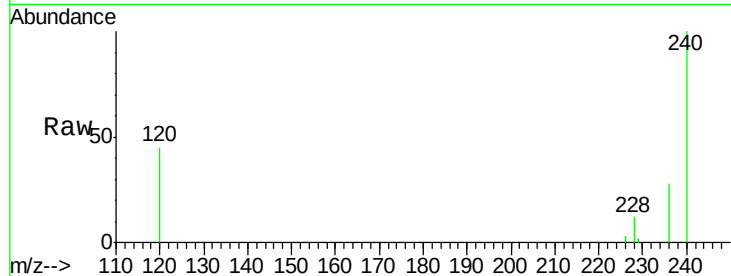
Tgt Ion:228 Resp: 11418

Ion Ratio Lower Upper

228 100

226 28.4 20.0 30.0

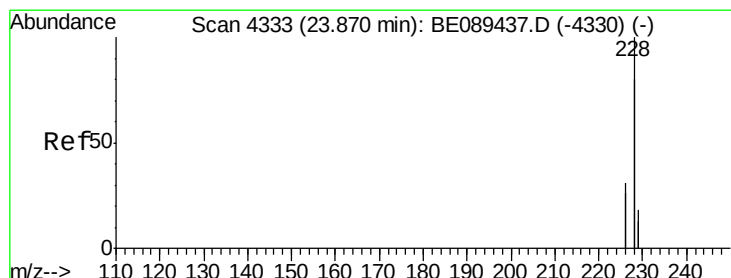
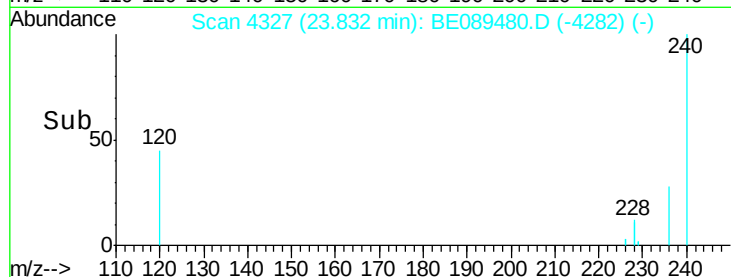
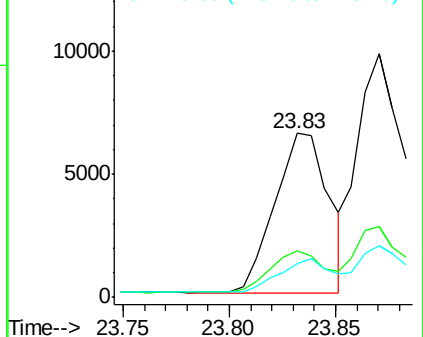
229 20.5 16.0 24.0



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: 0.17 ng

RT: 23.87 min Scan# 4333

Delta R.T. 0.00 min

Lab File: BE089480.D

Acq: 31 Jan 2015 22:37

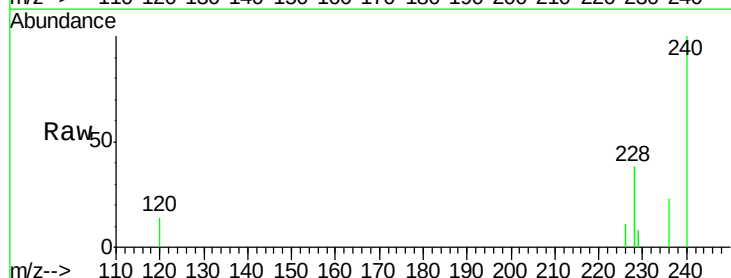
Tgt Ion:228 Resp: 23310

Ion Ratio Lower Upper

228 100

226 29.1 24.5 36.7

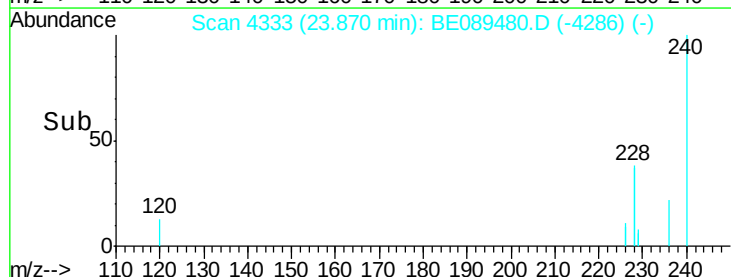
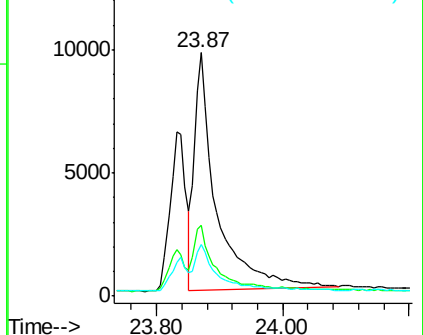
229 21.1 14.1 21.1

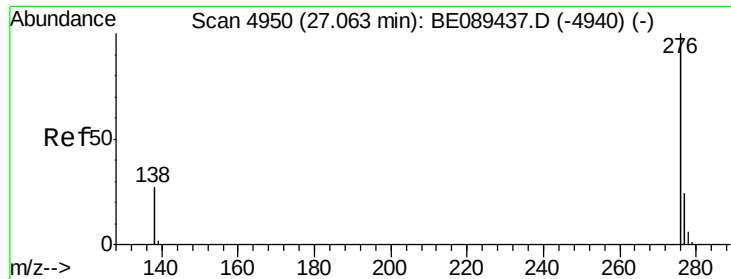


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

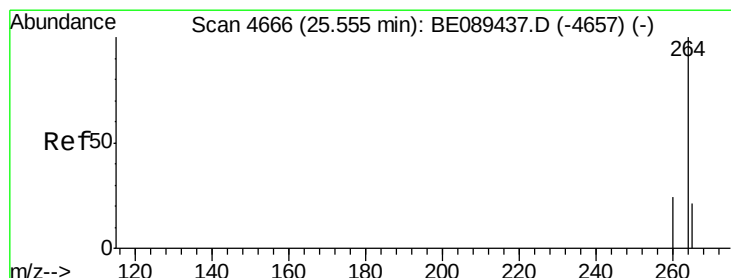
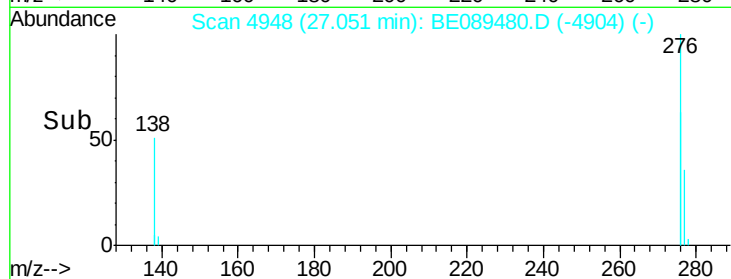
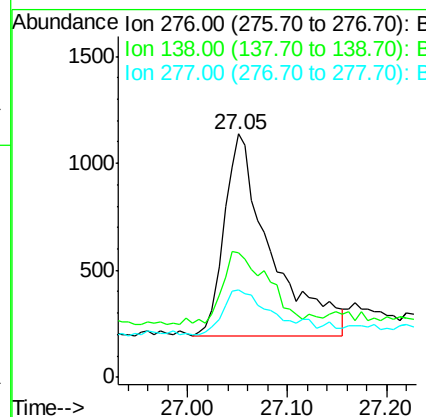
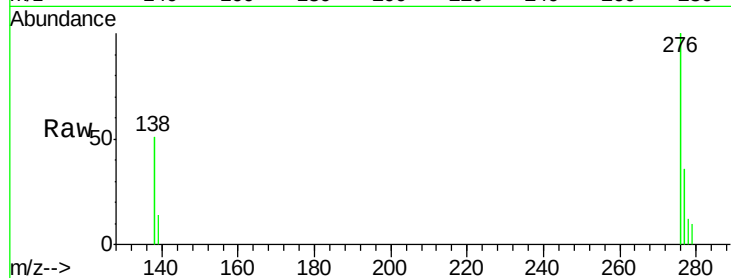




#21
 Indeno(1,2,3-cd)pyrene
 Concen: 0.03 ng
 RT: 27.05 min Scan# 4948
 Delta R.T. -0.01 min
 Lab File: BE089480.D
 Acq: 31 Jan 2015 22:37

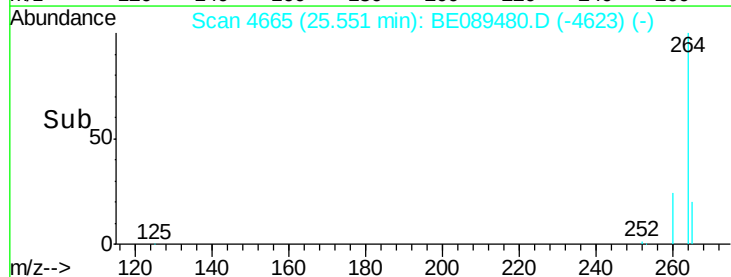
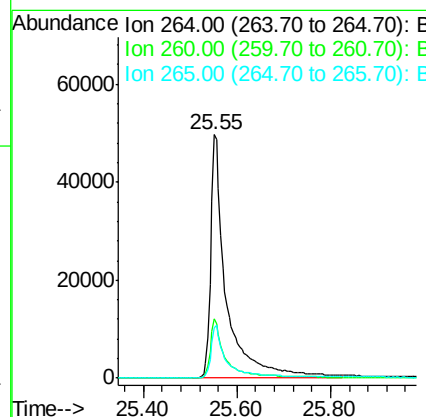
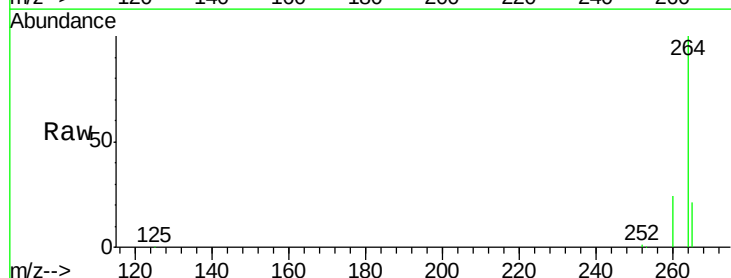
Instrument :
 BNA_E
 ClientSampleId :

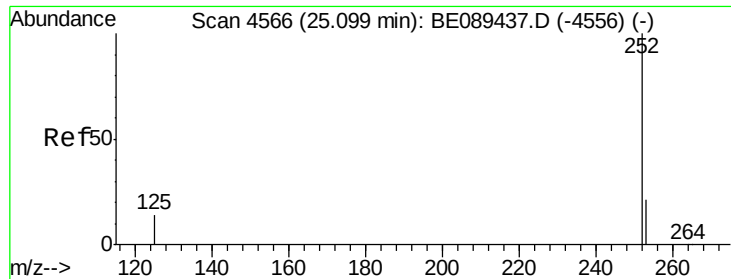
Tgt Ion:276 Resp: 3085
 Ion Ratio Lower Upper
 276 100
 138 33.9 25.4 38.0
 277 21.6 19.8 29.6



#22
 Perylene-d12
 Concen: 5.00 ng
 RT: 25.55 min Scan# 4665
 Delta R.T. -0.00 min
 Lab File: BE089480.D
 Acq: 31 Jan 2015 22:37

Tgt Ion:264 Resp: 116101
 Ion Ratio Lower Upper
 264 100
 260 24.2 19.4 29.0
 265 20.7 17.0 25.6





#23

Benzo(b)fluoranthene

Concen: 0.22 ng

RT: 25.10 min Scan# 4565

Delta R.T. -0.00 min

Lab File: BE089480.D

Acq: 31 Jan 2015 22:37

Instrument :

BNA_E

ClientSampleId :

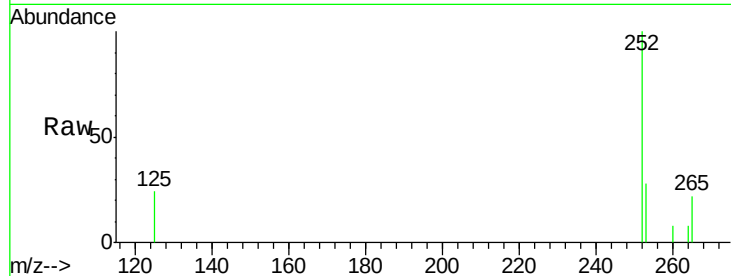
Tgt Ion:252 Resp: 746

Ion Ratio Lower Upper

252 100

253 28.4 17.0 25.6#

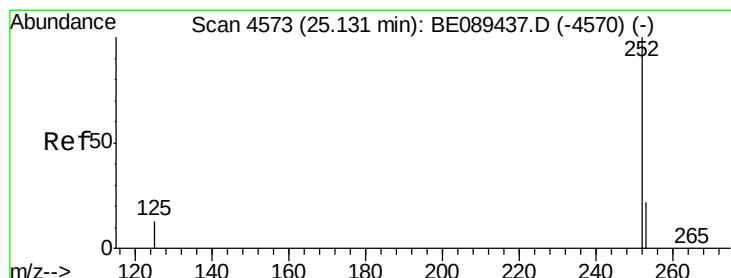
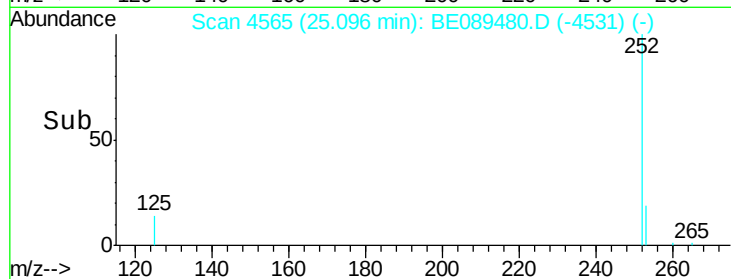
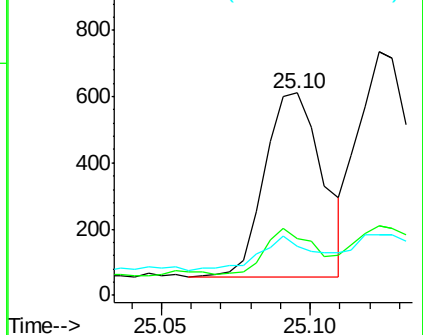
125 24.4 11.4 17.0#



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: 0.03 ng

RT: 25.12 min Scan# 4571

Delta R.T. -0.01 min

Lab File: BE089480.D

Acq: 31 Jan 2015 22:37

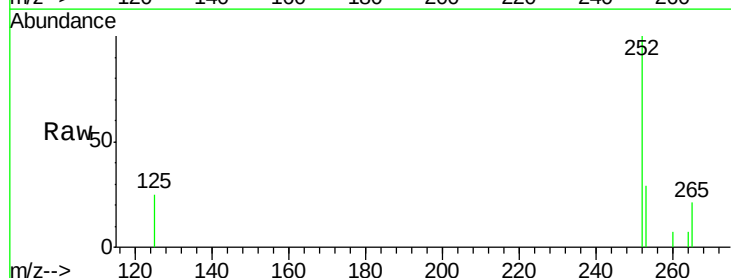
Tgt Ion:252 Resp: 921

Ion Ratio Lower Upper

252 100

253 28.7 17.4 26.2#

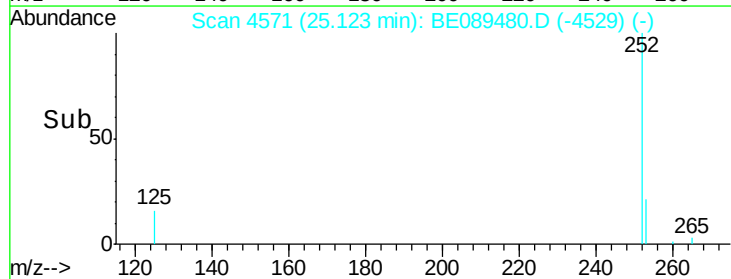
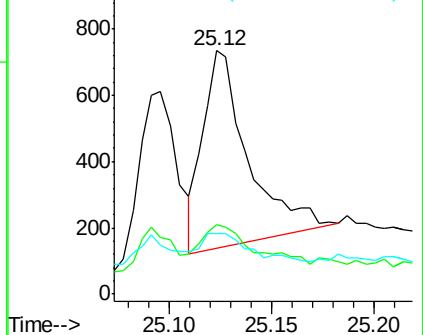
125 24.8 10.9 16.3#

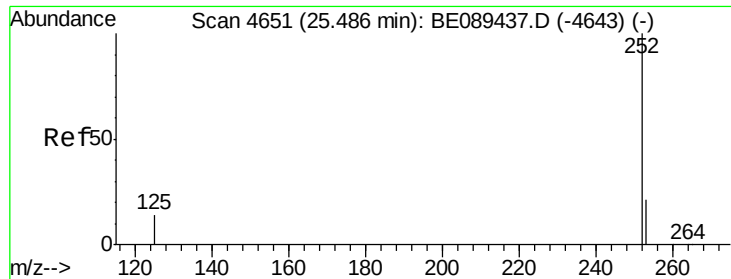


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

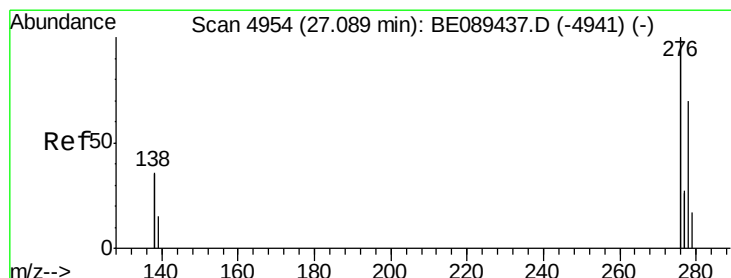
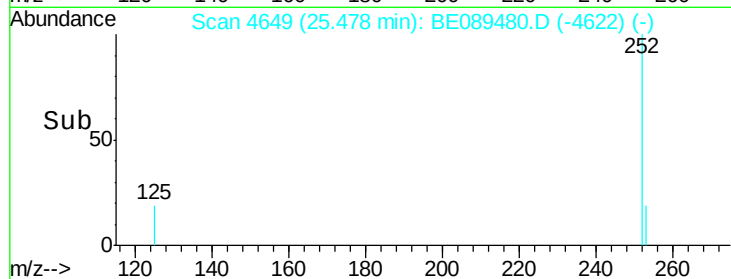
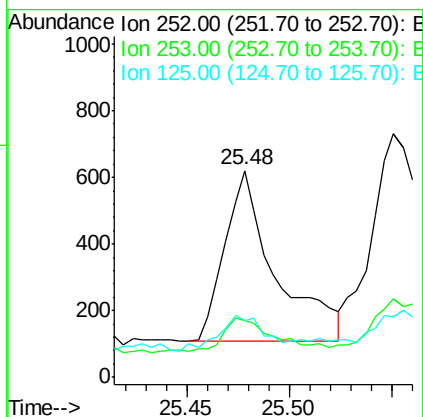
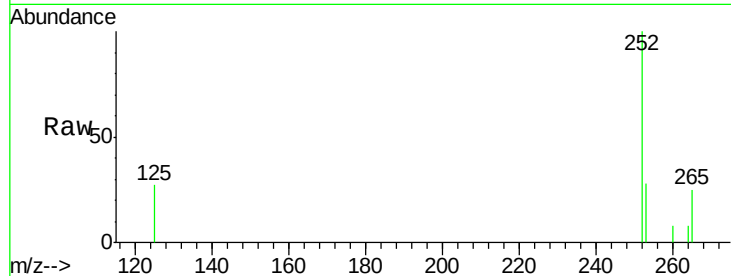




#25
Benzo(a)pyrene
Concen: 0.16 ng
RT: 25.48 min Scan# 4649
Delta R.T. -0.01 min
Lab File: BE089480.D
Acq: 31 Jan 2015 22:37

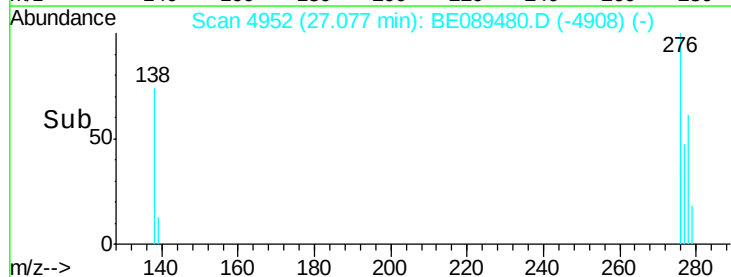
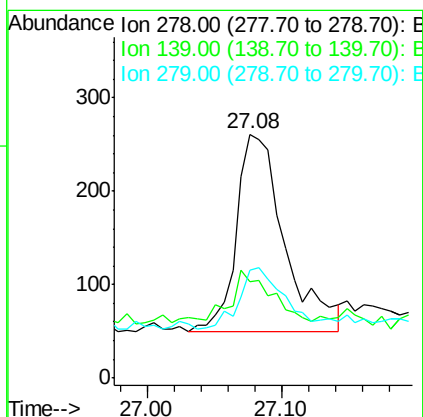
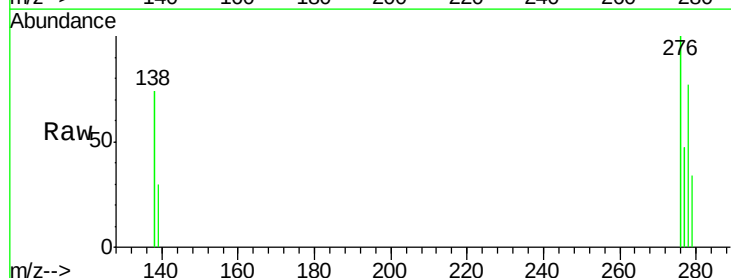
Instrument :
BNA_E
ClientSampled :

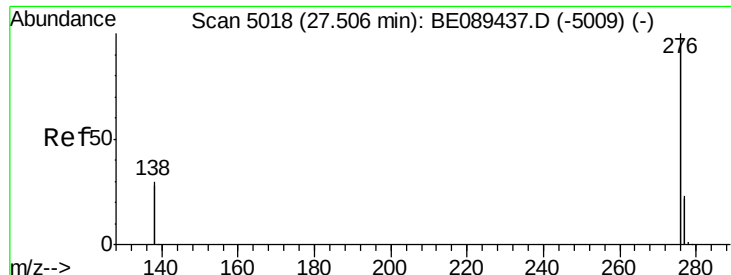
Tgt Ion: 252 Resp: 873
Ion Ratio Lower Upper
252 100
253 27.7 17.3 25.9#
125 27.4 12.0 18.0#



#26
Dibenzo(a,h)anthracene
Concen: 0.15 ng
RT: 27.08 min Scan# 4952
Delta R.T. -0.01 min
Lab File: BE089480.D
Acq: 31 Jan 2015 22:37

Tgt Ion: 278 Resp: 522
Ion Ratio Lower Upper
278 100
139 39.5 17.0 25.4#
279 44.4 19.1 28.7#





#27

Benzo(g,h,i)perylene

Concen: 0.05 ng

RT: 27.50 min Scan# 5017

Delta R.T. -0.01 min

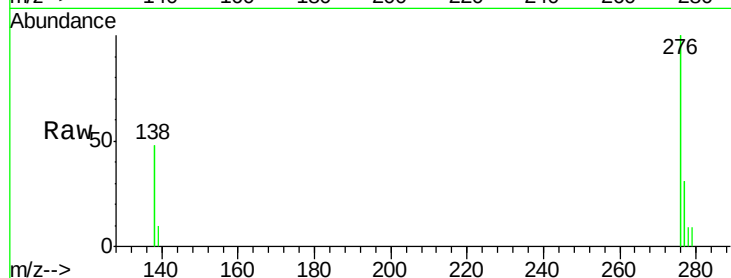
Lab File: BE089480.D

Acq: 31 Jan 2015 22:37

Instrument :

BNA_E

ClientSampleId :



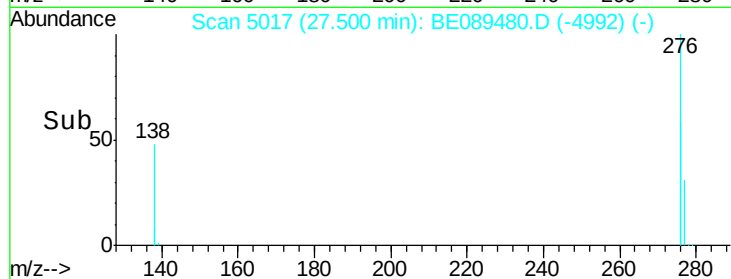
Tgt Ion: 276 Resp: 4209

Ion Ratio Lower Upper

276 100

277 31.4 18.4 27.6#

138 47.5 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

