

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE013015\
 Data File : BE089466.D
 Acq On : 31 Jan 2015 11:35
 Operator : TP/IZ
 Sample : MDL-01-S
 Misc : MDL-SOIL-0.1/0.2
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: Feb 02 02:27:46 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	50091	5.00	ng	0.00
2) Naphthalene-d8	12.49	136	211346	5.00	ng	0.00
6) Acenaphthene-d10	16.69	164	113123	5.00	ng	-0.01
11) Phenanthrene-d10	19.99	188	181789	5.00	ng	0.00
16) Chrysene-d12	23.84	240	139220	5.00	ng	0.00
22) Perylene-d12	25.55	264	118397	5.00	ng	0.00

System Monitoring Compounds						
3) Nitrobenzene-d5	10.85	82	130875	9.35	ng	0.00
7) 2-Fluorobiphenyl	15.13	172	236959	7.95	ng	0.00
18) Terphenyl-d14	22.48	244	201016	9.64	ng	0.00

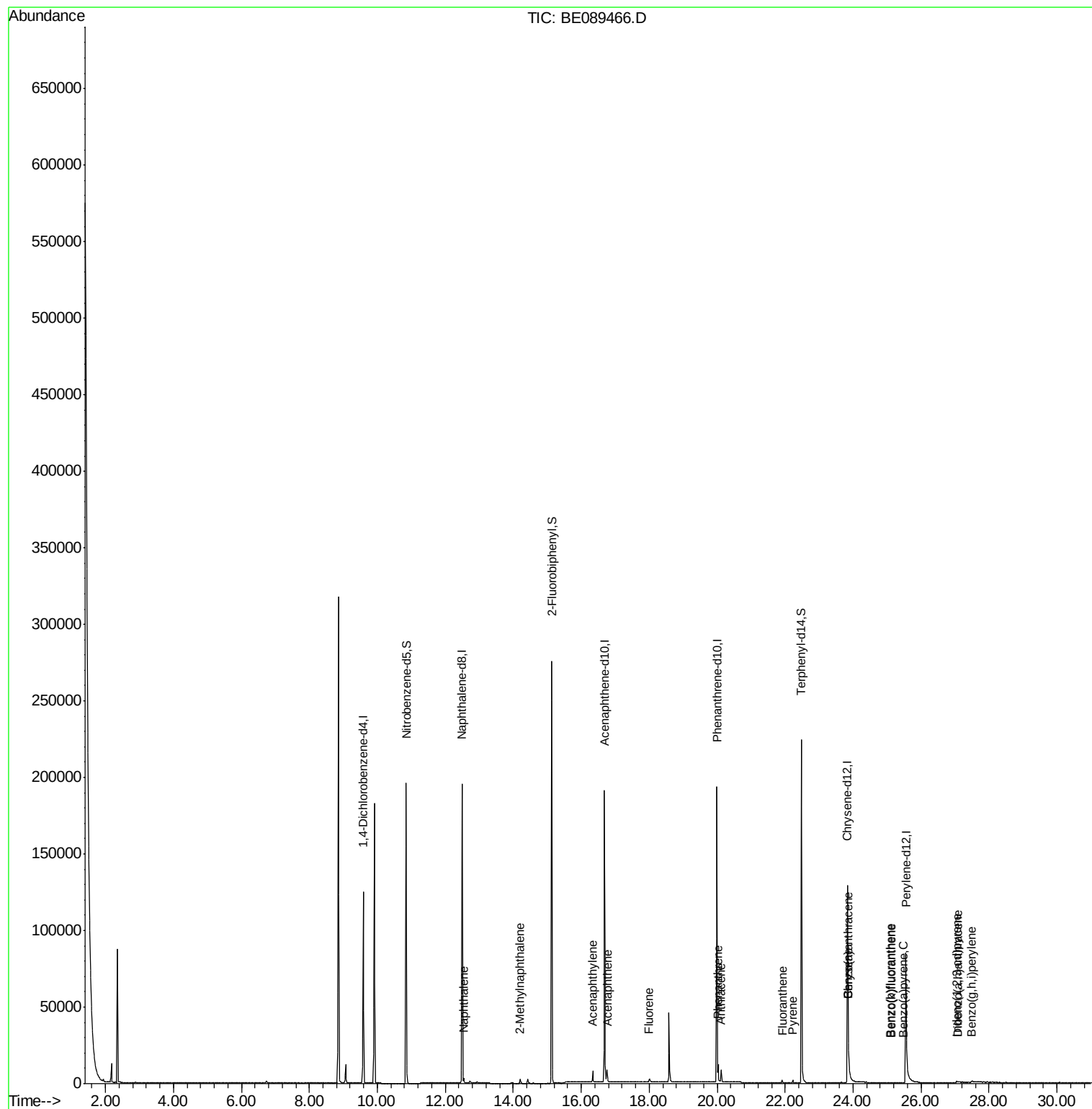
Target Compounds						Qvalue
4) Naphthalene	12.54	128	3522	0.07	ng	99
5) 2-Methylnaphthalene	14.20	142	1867	0.06	ng	97
8) Acenaphthylene	16.34	152	9691	0.05	ng	97
9) Acenaphthene	16.76	154	1634	0.05	ng	# 83
10) Fluorene	18.00	166	1708	0.05	ng	100
12) Pentachlorophenol	19.66	266	153	Below Cal		91
13) Phenanthrene	20.03	178	11394	0.06	ng	99
14) Anthracene	20.12	178	8122	0.05	ng	98
15) Fluoranthene	21.91	202	1740	0.04	ng	99
17) Pyrene	22.22	202	1866	0.05	ng	96
19) Benzo(a)anthracene	23.87	228	9039	0.08	ng	93
20) Chrysene	23.87	228	9039	0.07	ng	# 95
21) Indeno(1,2,3-cd)pyrene	27.06	276	1372	0.01	ng	# 85
23) Benzo(b)fluoranthene	25.09	252	329	0.20	ng	# 50
24) Benzo(k)fluoranthene	25.13	252	507	0.02	ng	# 53
25) Benzo(a)pyrene	25.48	252	339	0.13	ng	# 48
26) Dibenzo(a,h)anthracene	27.08	278	243	0.14	ng	# 26
27) Benzo(g,h,i)perylene	27.50	276	1678	0.02	ng	# 55

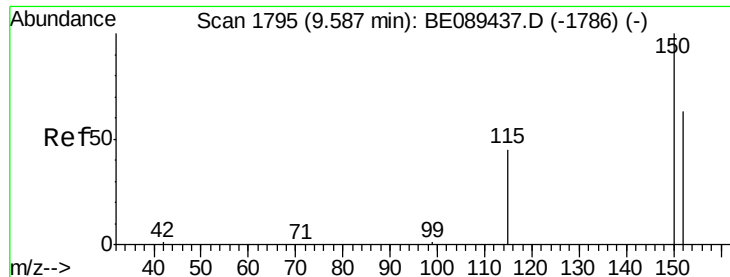
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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

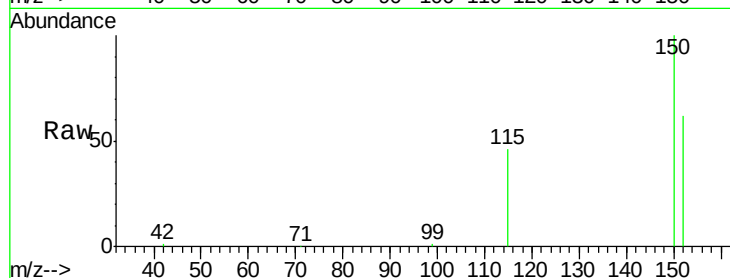
Lab File: BE089466.D

Acq: 31 Jan 2015 11:35

Instrument :

BNA_E

ClientSampleId :



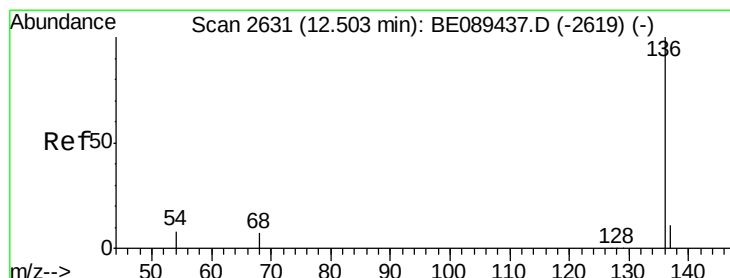
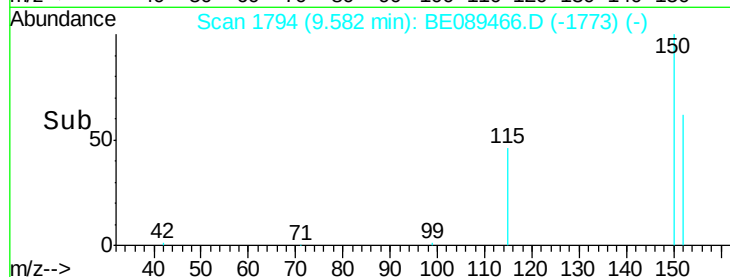
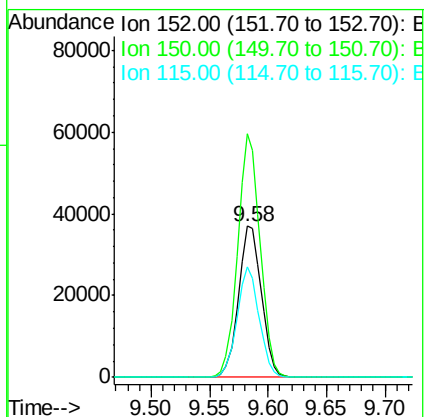
Tgt Ion:152 Resp: 50091

Ion Ratio Lower Upper

152 100

150 161.1 127.2 190.8

115 73.5 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: BE089466.D

Acq: 31 Jan 2015 11:35

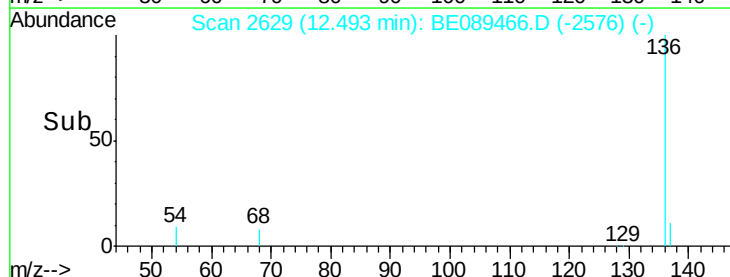
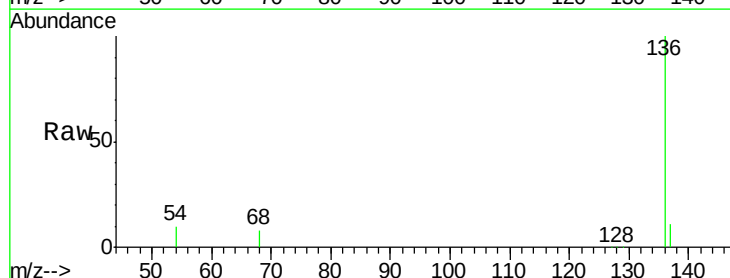
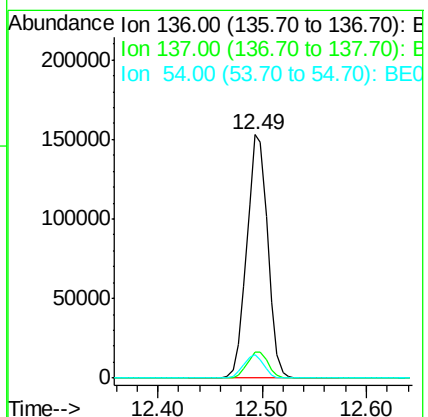
Tgt Ion:136 Resp: 211346

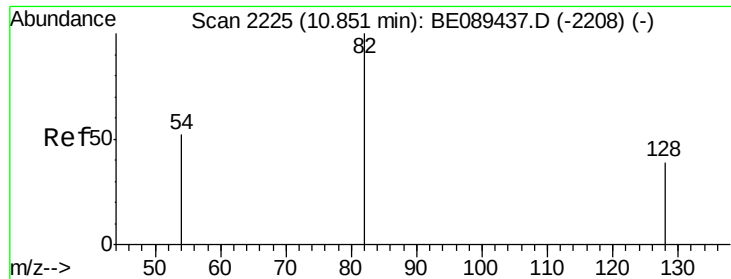
Ion Ratio Lower Upper

136 100

137 10.6 8.7 13.1

54 9.5 6.6 10.0





#3

Nitrobenzene-d5

Concen: 9.35 ng

RT: 10.85 min Scan# 2223

Delta R.T. -0.00 min

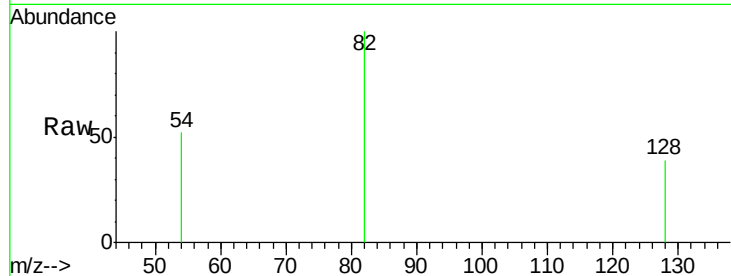
Lab File: BE089466.D

Acq: 31 Jan 2015 11:35

Instrument :

BNA_E

ClientSampleId :



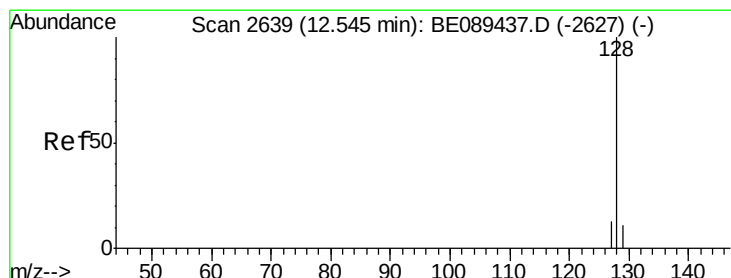
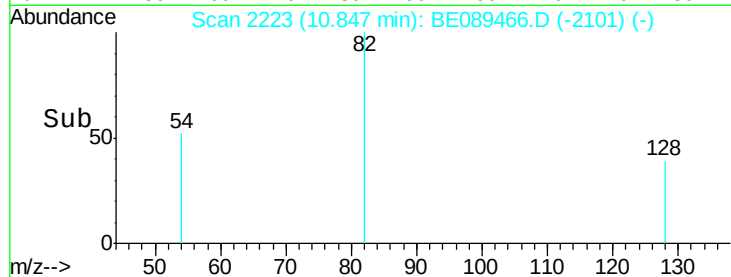
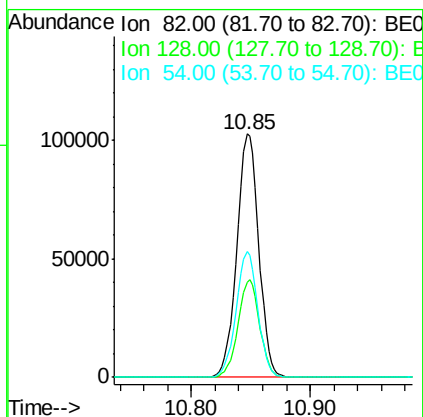
Tgt Ion: 82 Resp: 130875

Ion Ratio Lower Upper

82 100

128 39.3 31.2 46.8

54 51.6 41.9 62.9



#4

Naphthalene

Concen: 0.07 ng

RT: 12.54 min Scan# 2638

Delta R.T. -0.00 min

Lab File: BE089466.D

Acq: 31 Jan 2015 11:35

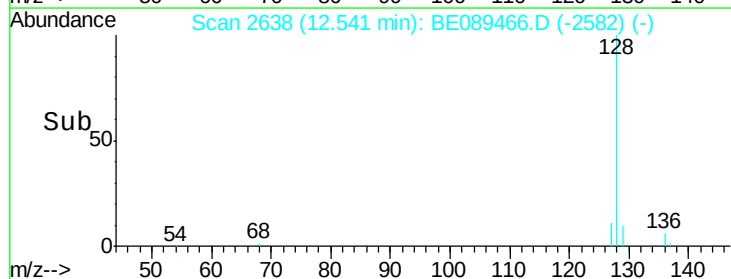
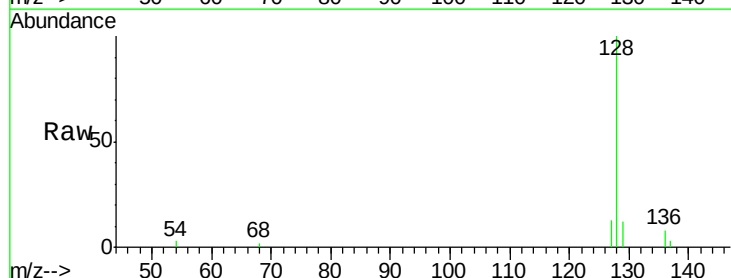
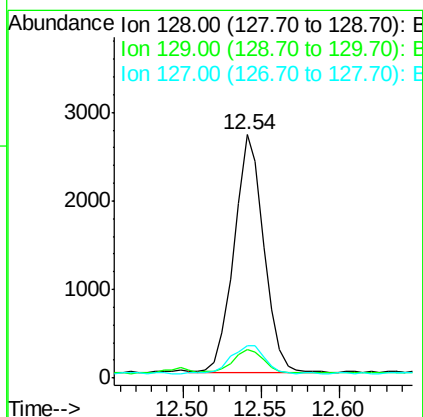
Tgt Ion: 128 Resp: 3522

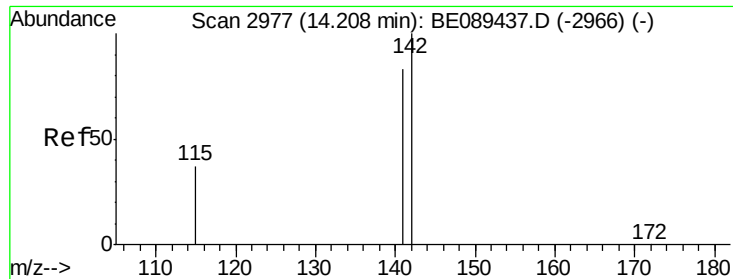
Ion Ratio Lower Upper

128 100

129 11.6 8.8 13.2

127 13.1 10.6 16.0





#5

2-Methylnaphthalene

Concen: 0.06 ng

RT: 14.20 min Scan# 2976

Delta R.T. -0.01 min

Lab File: BE089466.D

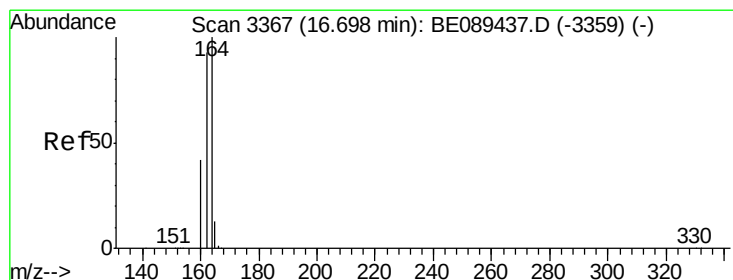
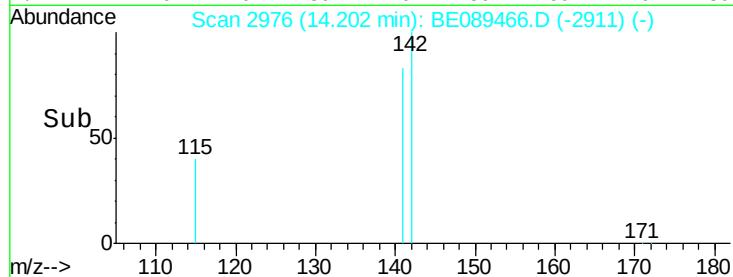
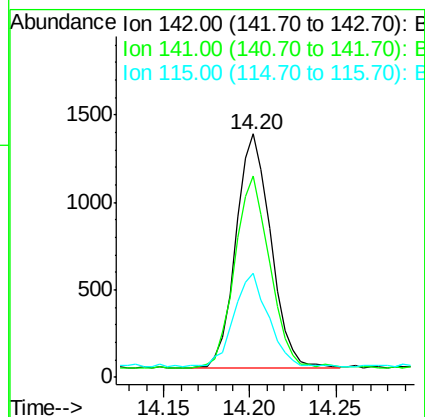
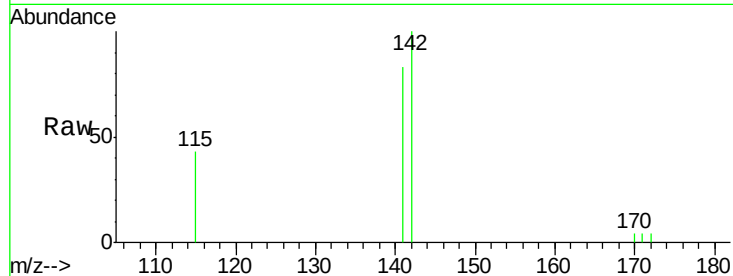
Acq: 31 Jan 2015 11:35

Instrument :

BNA_E

ClientSampleId :

Tgt Ion:	142	Resp:	1867
Ion	Ratio	Lower	Upper
142	100		
141	82.8	66.1	99.1
115	43.0	29.9	44.9



#6

Acenaphthene-d10

Concen: 5.00 ng

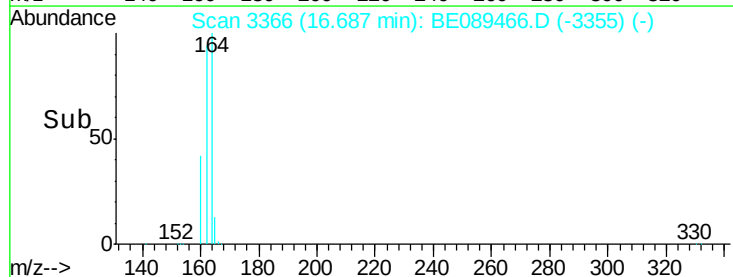
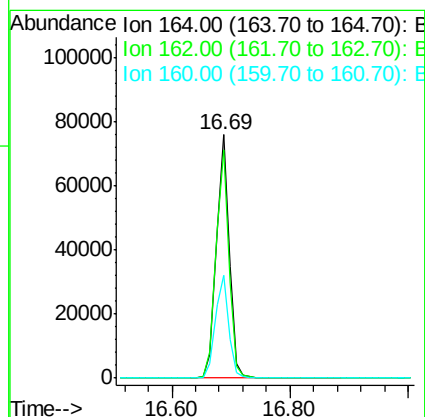
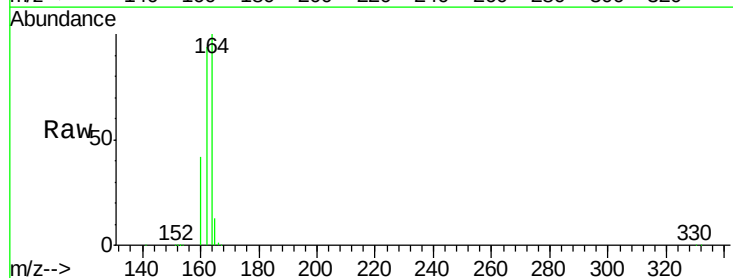
RT: 16.69 min Scan# 3366

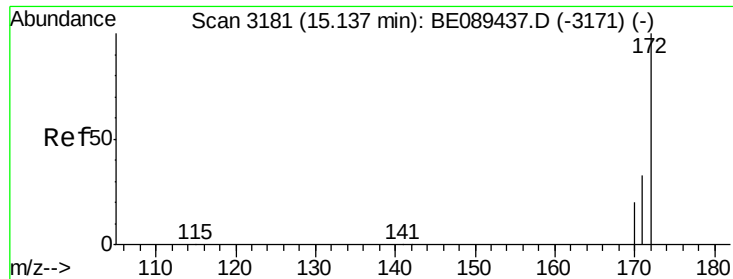
Delta R.T. -0.01 min

Lab File: BE089466.D

Acq: 31 Jan 2015 11:35

Tgt Ion:	164	Resp:	113123
Ion	Ratio	Lower	Upper
164	100		
162	93.9	74.7	112.1
160	42.3	33.4	50.0





#7

2-Fluorobiphenyl

Concen: 7.95 ng

RT: 15.13 min Scan# 3180

Delta R.T. -0.01 min

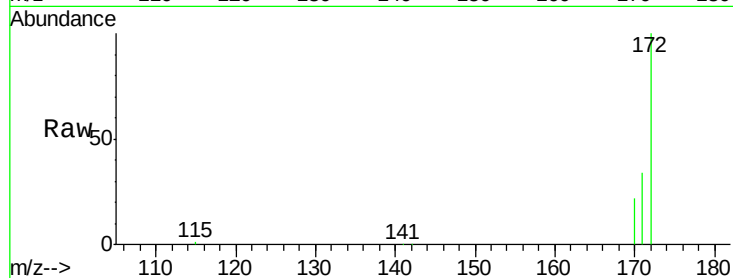
Lab File: BE089466.D

Acq: 31 Jan 2015 11:35

Instrument :

BNA_E

ClientSampleId :



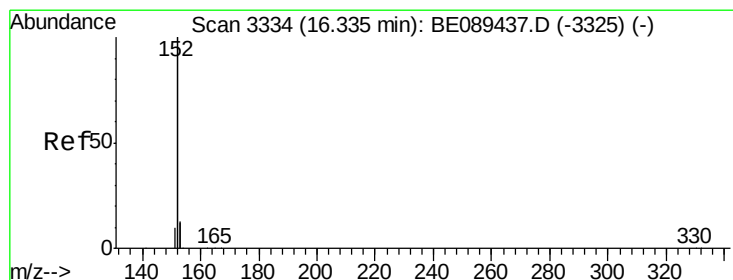
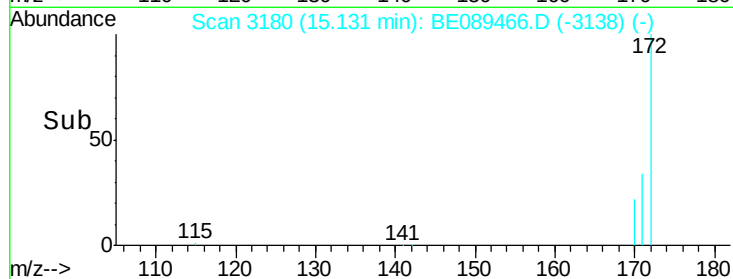
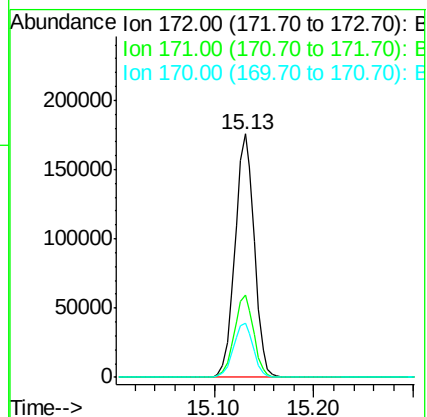
Tgt Ion:172 Resp: 236959

Ion Ratio Lower Upper

172 100

171 33.9 26.2 39.4

170 22.4 16.5 24.7



#8

Acenaphthylene

Concen: 0.05 ng

RT: 16.34 min Scan# 3334

Delta R.T. 0.00 min

Lab File: BE089466.D

Acq: 31 Jan 2015 11:35

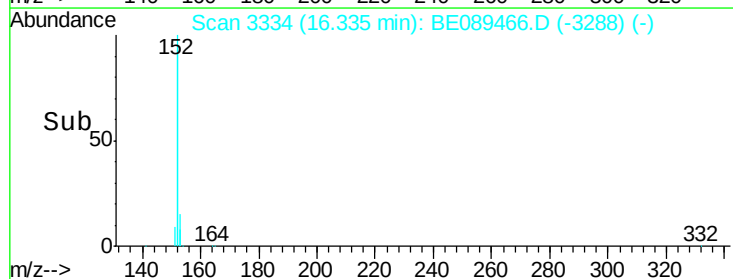
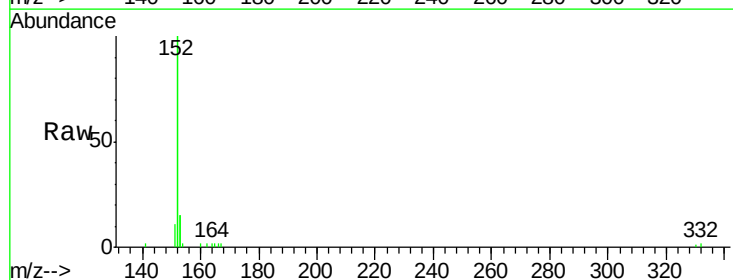
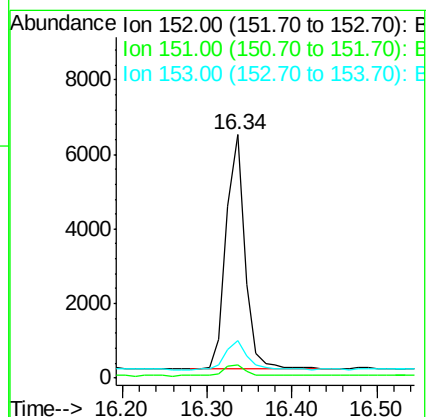
Tgt Ion:152 Resp: 9691

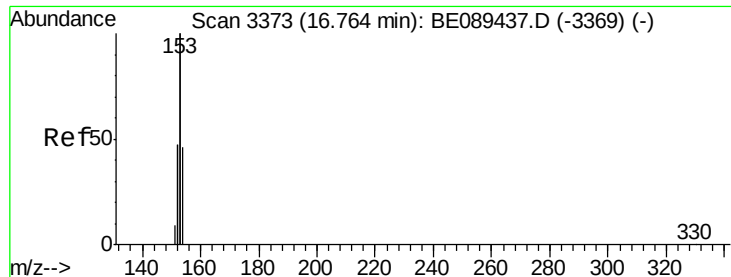
Ion Ratio Lower Upper

152 100

151 5.5 3.9 5.9

153 14.3 10.3 15.5





#9

Acenaphthene

Concen: 0.05 ng

RT: 16.76 min Scan# 3373

Delta R.T. 0.00 min

Lab File: BE089466.D

Acq: 31 Jan 2015 11:35

Instrument :

BNA_E

ClientSampleId :

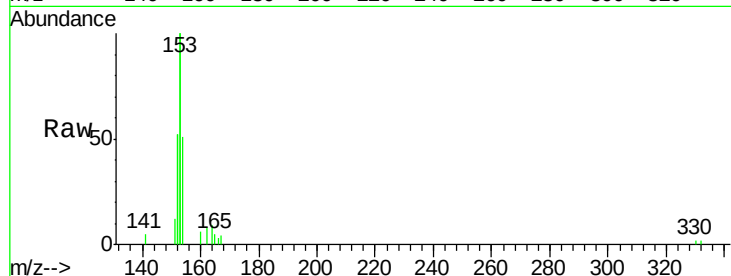
Tgt Ion:154 Resp: 1634

Ion Ratio Lower Upper

154 100

153 452.0 342.3 513.5

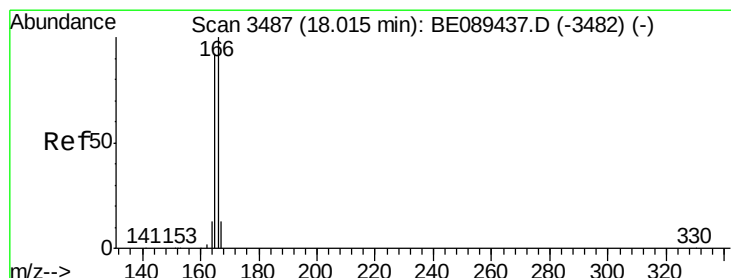
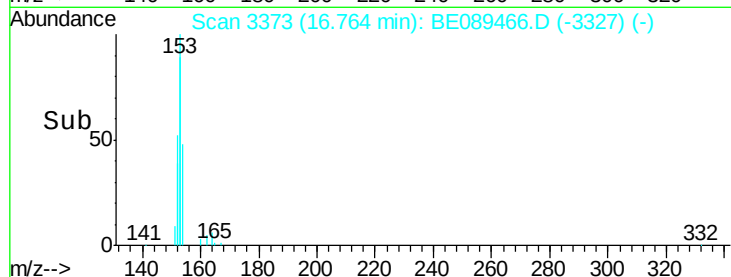
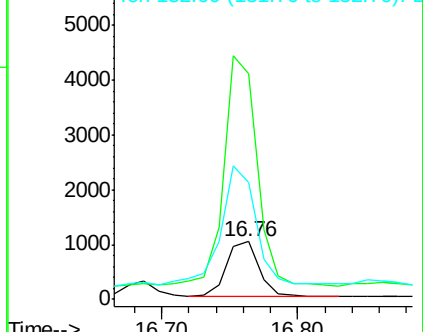
152 255.9 165.5 248.3#



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: 0.05 ng

RT: 18.00 min Scan# 3486

Delta R.T. -0.01 min

Lab File: BE089466.D

Acq: 31 Jan 2015 11:35

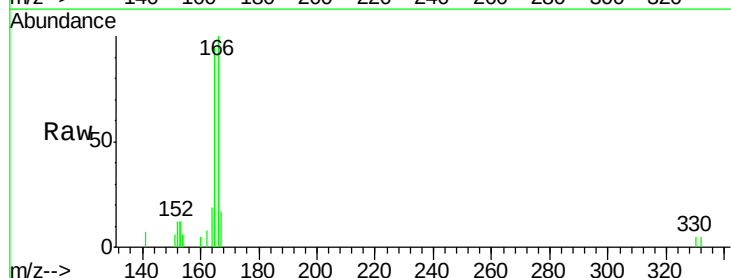
Tgt Ion:166 Resp: 1708

Ion Ratio Lower Upper

166 100

165 93.3 74.4 111.6

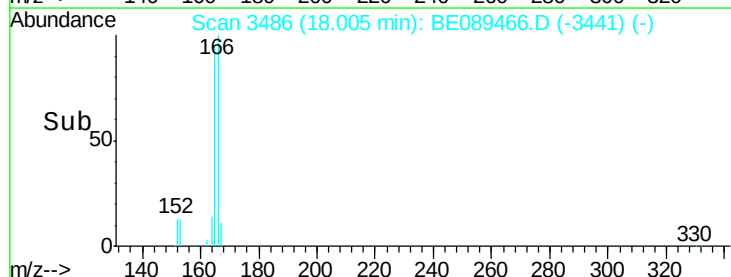
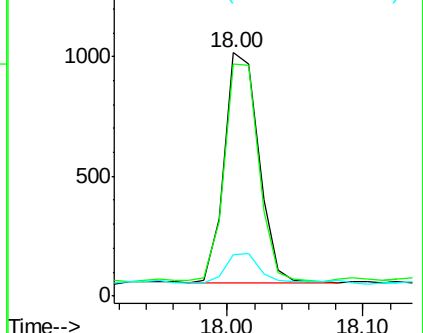
167 12.5 10.6 15.8

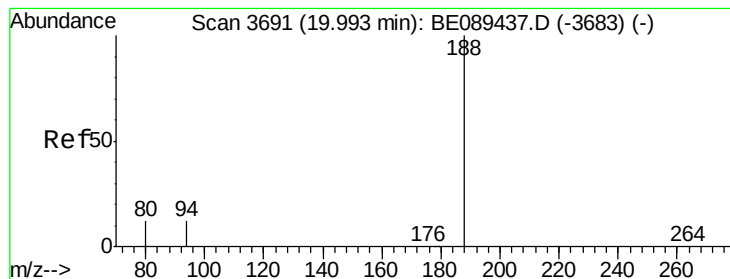


Abundance Ion 166.00 (165.70 to 166.70): E

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: BE089466.D

Acq: 31 Jan 2015 11:35

Instrument :

BNA_E

ClientSampleId :

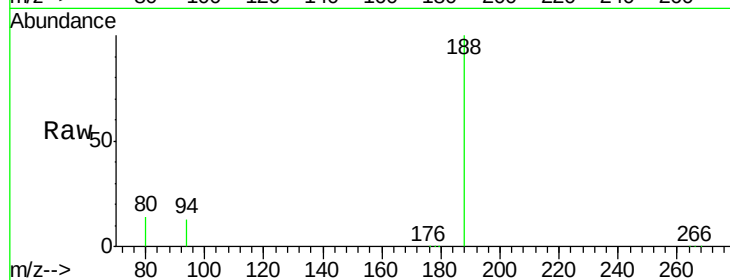
Tgt Ion:188 Resp: 181789

Ion Ratio Lower Upper

188 100

94 13.4 9.4 14.0

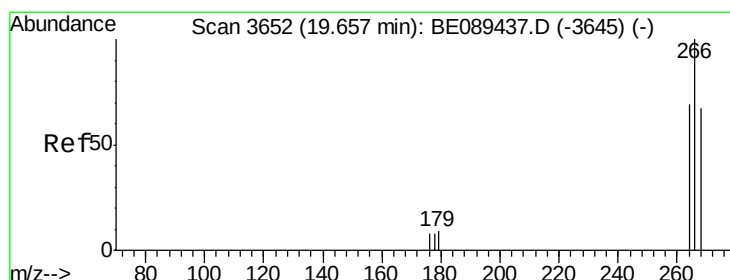
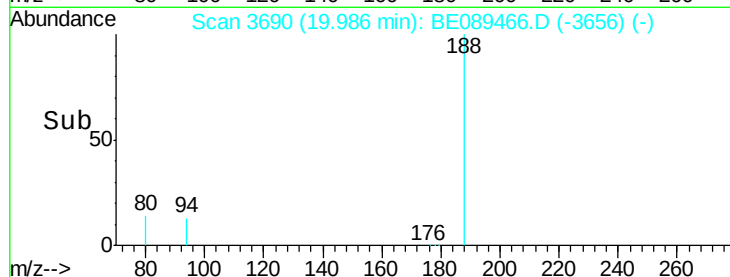
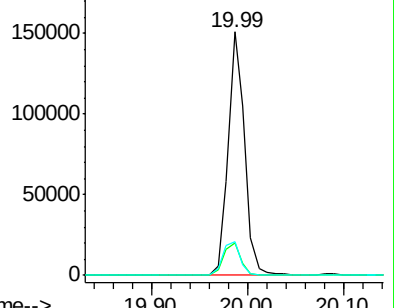
80 13.9 9.3 13.9#



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: Below Cal

RT: 19.66 min Scan# 3652

Delta R.T. 0.00 min

Lab File: BE089466.D

Acq: 31 Jan 2015 11:35

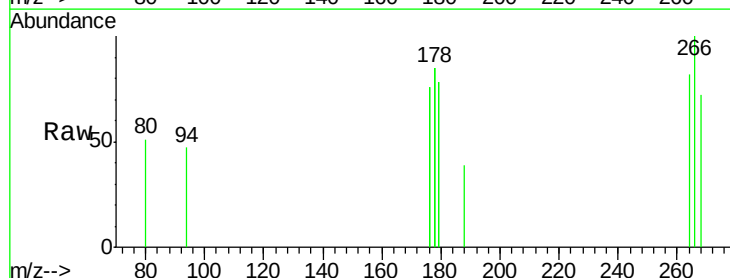
Tgt Ion:266 Resp: 153

Ion Ratio Lower Upper

266 100

268 71.6 54.2 81.4

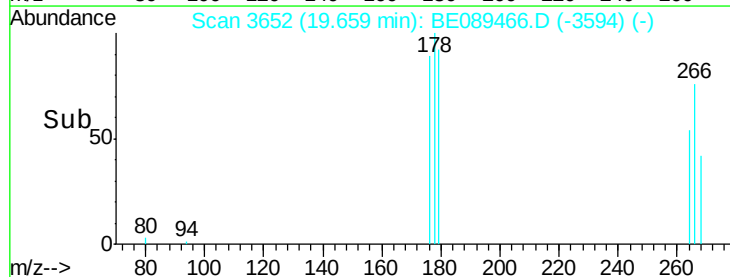
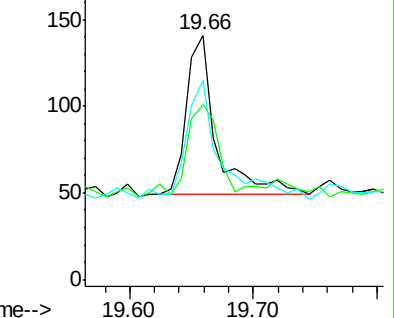
264 81.6 56.2 84.2

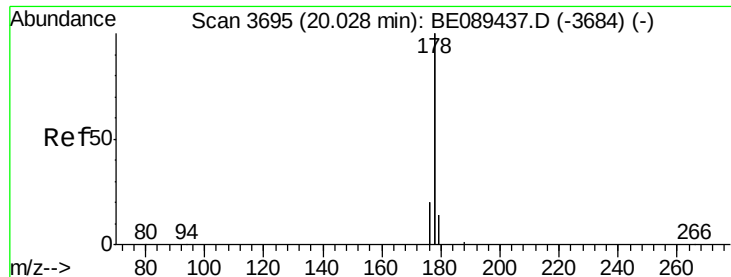


Abundance Ion 265.70 (265.40 to 266.40): E

Ion 268.00 (267.70 to 268.70): E

Ion 264.00 (263.70 to 264.70): E





#13

Phenanthrene

Concen: 0.06 ng

RT: 20.03 min Scan# 3695

Delta R.T. 0.00 min

Lab File: BE089466.D

Acq: 31 Jan 2015 11:35

Instrument :

BNA_E

ClientSampleId :

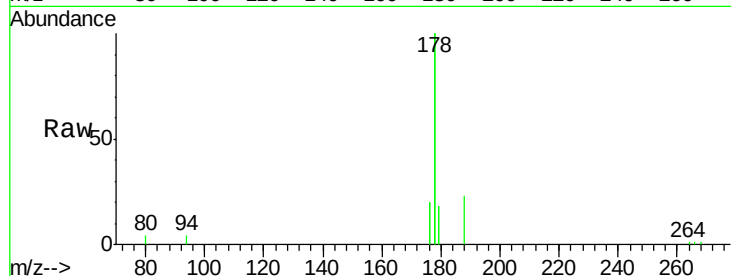
Tgt Ion:178 Resp: 11394

Ion Ratio Lower Upper

178 100

176 18.4 15.1 22.7

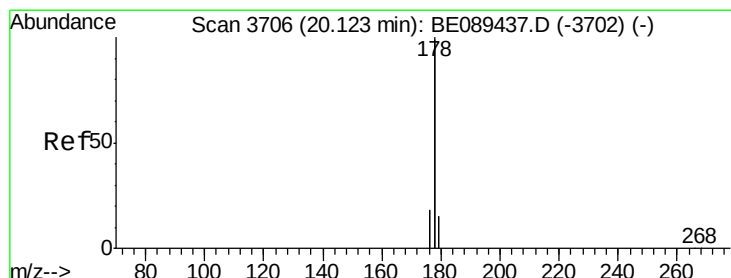
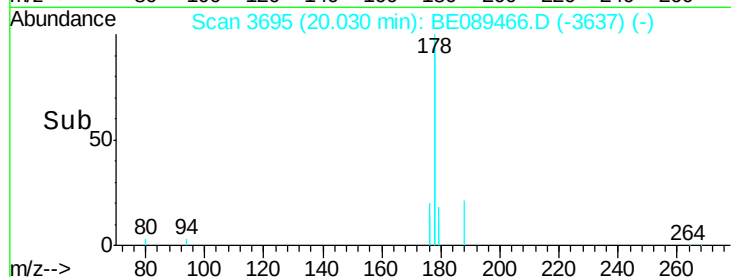
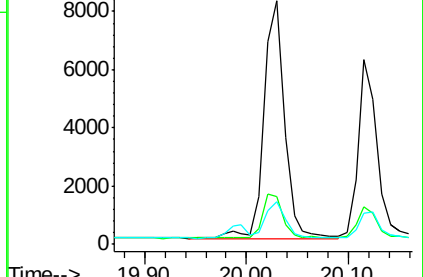
179 15.4 12.3 18.5



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: 0.05 ng

RT: 20.12 min Scan# 3705

Delta R.T. -0.01 min

Lab File: BE089466.D

Acq: 31 Jan 2015 11:35

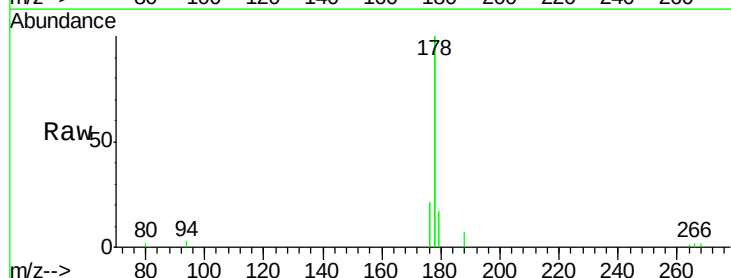
Tgt Ion:178 Resp: 8122

Ion Ratio Lower Upper

178 100

176 17.6 14.6 22.0

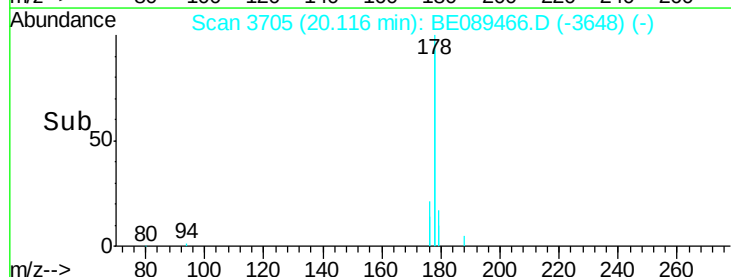
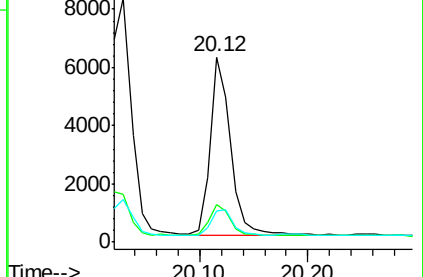
179 16.7 12.2 18.2

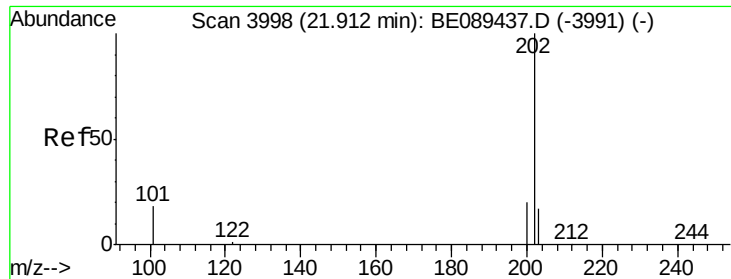


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#15

Fluoranthene

Concen: 0.04 ng

RT: 21.91 min Scan# 3997

Delta R.T. 0.00 min

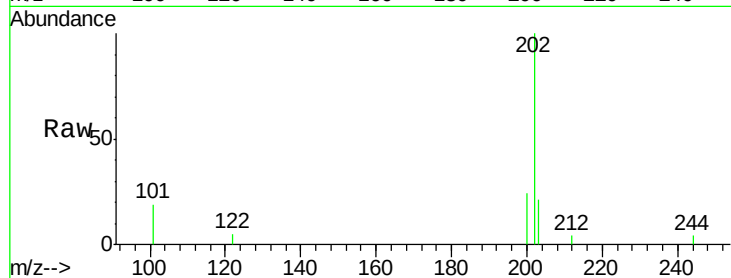
Lab File: BE089466.D

Acq: 31 Jan 2015 11:35

Instrument :

BNA_E

ClientSampleId :



Tgt Ion:202 Resp: 1740

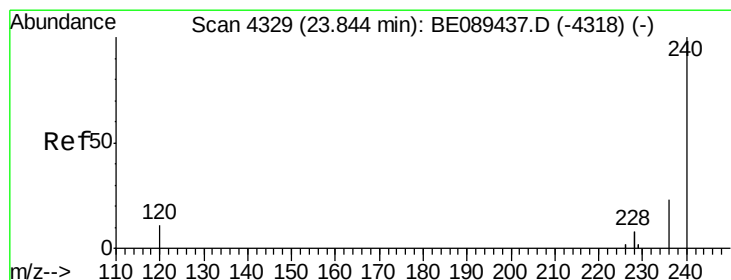
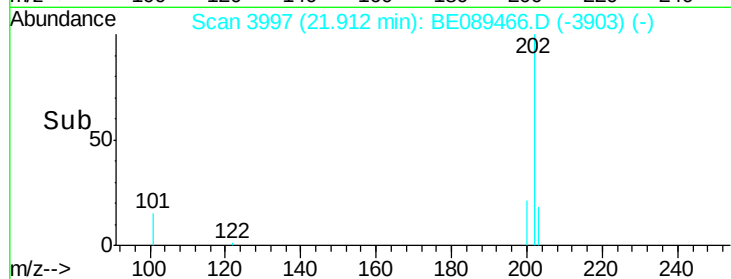
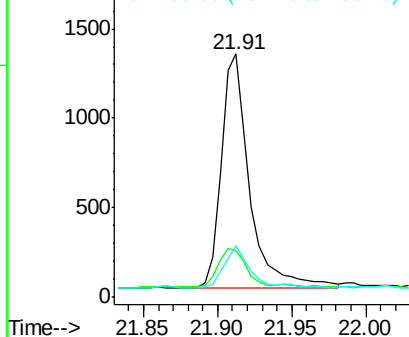
Ion Ratio Lower Upper

202 100

101 16.4 13.6 20.4

203 16.6 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# 4327

Delta R.T. -0.01 min

Lab File: BE089466.D

Acq: 31 Jan 2015 11:35

Tgt Ion:240 Resp: 139220

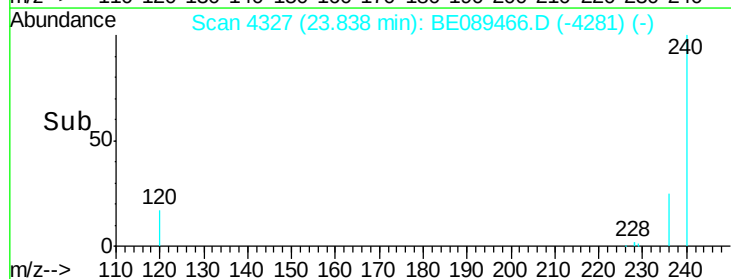
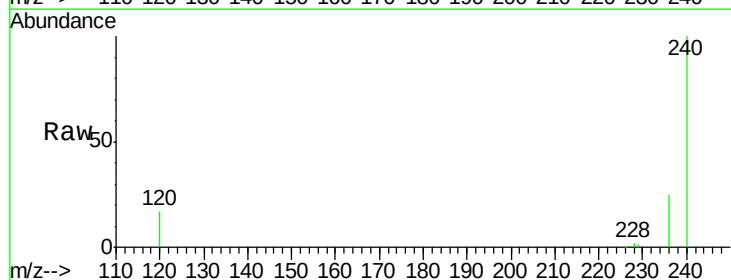
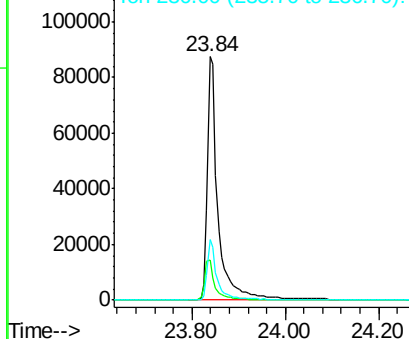
Ion Ratio Lower Upper

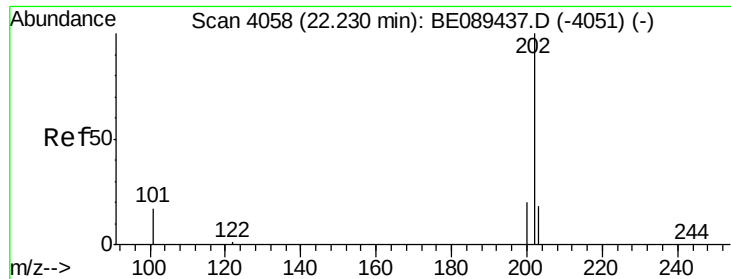
240 100

120 16.7 8.6 13.0#

236 25.1 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

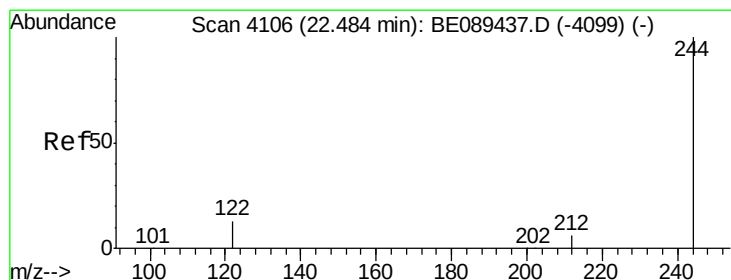
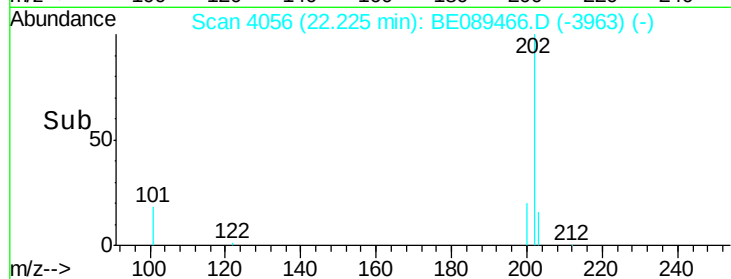
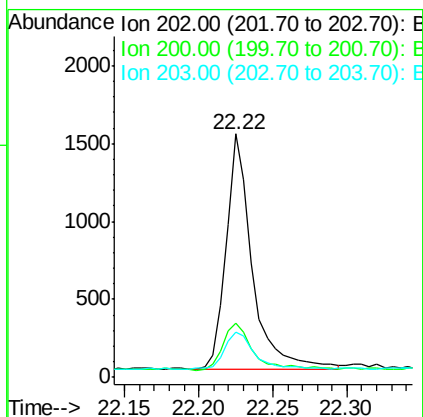
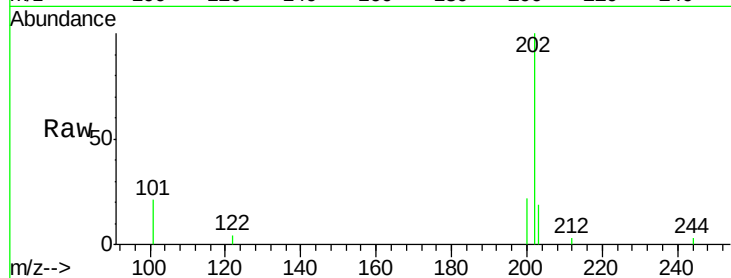




#17
 Pyrene
 Concen: 0.05 ng
 RT: 22.22 min Scan# 4056
 Delta R.T. -0.01 min
 Lab File: BE089466.D
 Acq: 31 Jan 2015 11:35

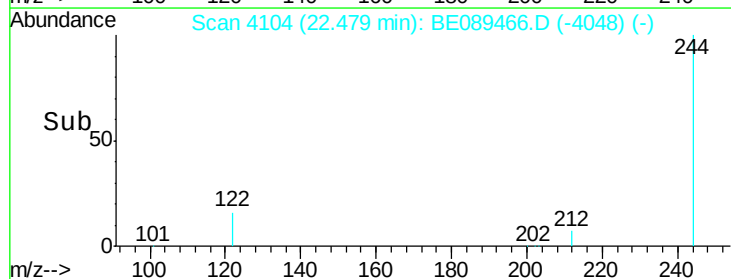
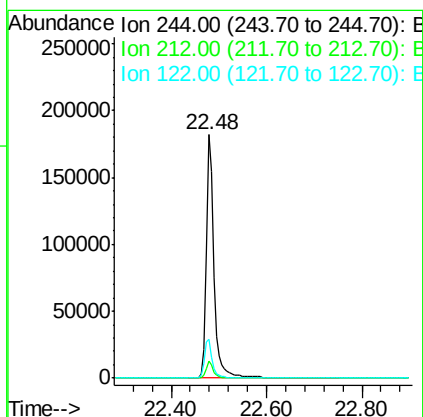
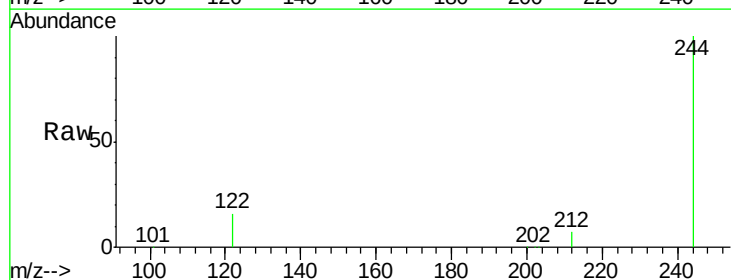
Instrument :
 BNA_E
 ClientSampleId :

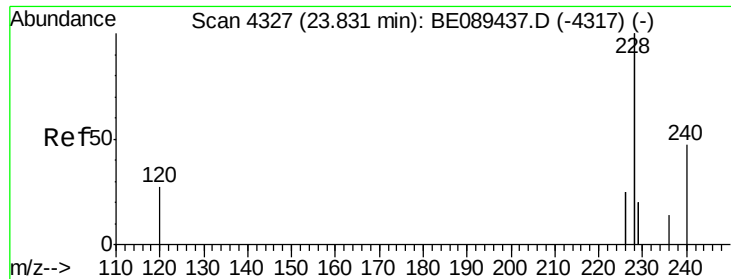
Tgt Ion:202 Resp: 1866
 Ion Ratio Lower Upper
 202 100
 200 22.5 16.2 24.4
 203 19.0 13.8 20.8



#18
 Terphenyl-d14
 Concen: 9.64 ng
 RT: 22.48 min Scan# 4104
 Delta R.T. -0.01 min
 Lab File: BE089466.D
 Acq: 31 Jan 2015 11:35

Tgt Ion:244 Resp: 201016
 Ion Ratio Lower Upper
 244 100
 212 6.9 5.0 7.6
 122 15.7 10.2 15.4#





#19

Benzo(a)anthracene

Concen: 0.08 ng

RT: 23.87 min Scan# 4332

Delta R.T. 0.04 min

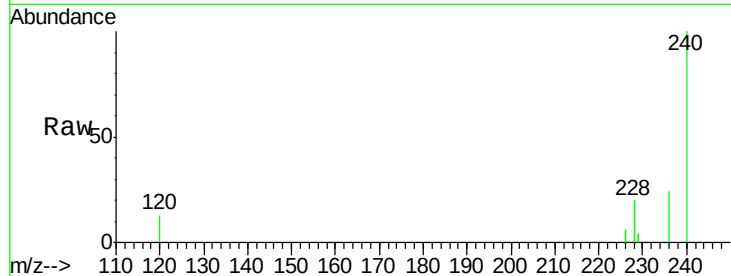
Lab File: BE089466.D

Acq: 31 Jan 2015 11:35

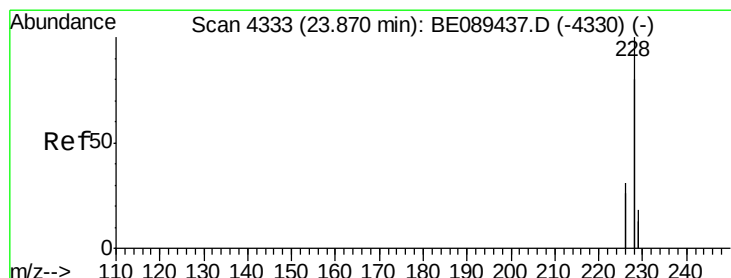
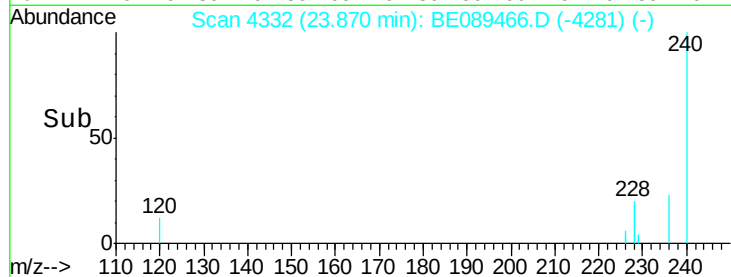
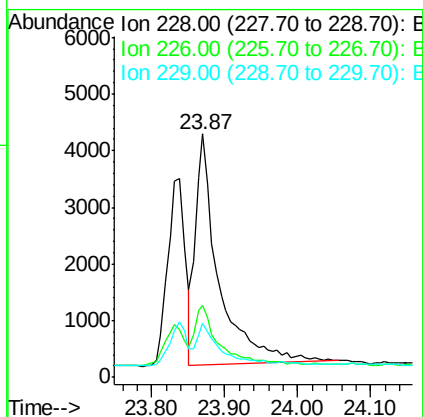
Instrument :

BNA_E

ClientSampleId :



Tgt Ion:	228	Resp:	9039
Ion	Ratio	Lower	Upper
228	100		
226	29.5	20.0	30.0
229	22.4	16.0	24.0



#20

Chrysene

Concen: 0.07 ng

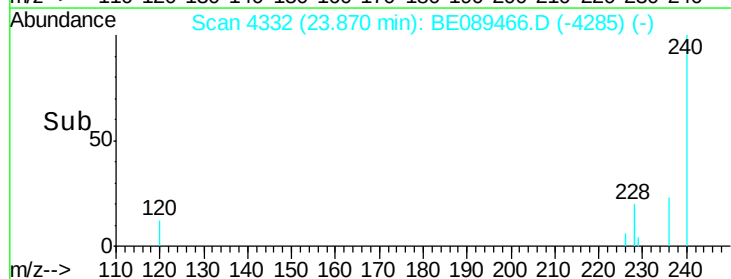
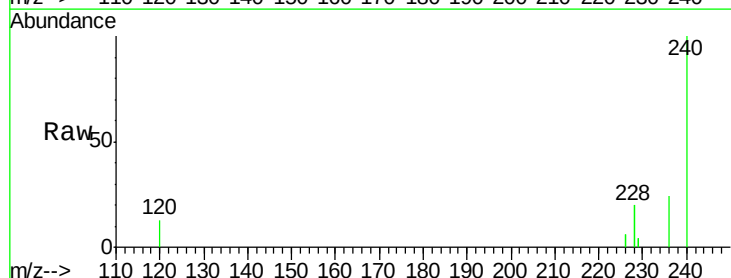
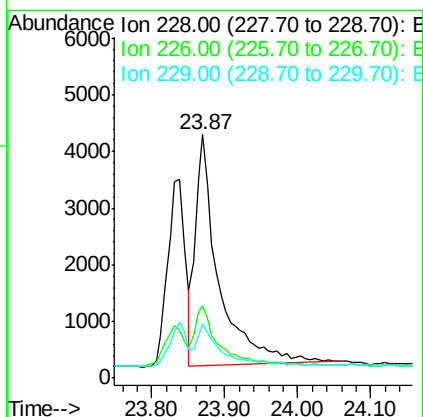
RT: 23.87 min Scan# 4332

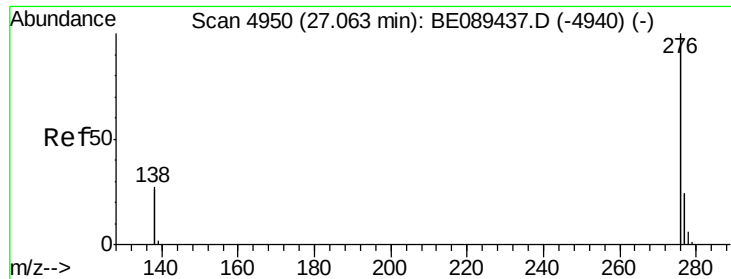
Delta R.T. 0.00 min

Lab File: BE089466.D

Acq: 31 Jan 2015 11:35

Tgt Ion:	228	Resp:	9039
Ion	Ratio	Lower	Upper
228	100		
226	29.5	24.5	36.7
229	22.4	14.1	21.1#





#21

Indeno(1,2,3-cd)pyrene

Concen: 0.01 ng

RT: 27.06 min Scan# 4948

Delta R.T. -0.01 min

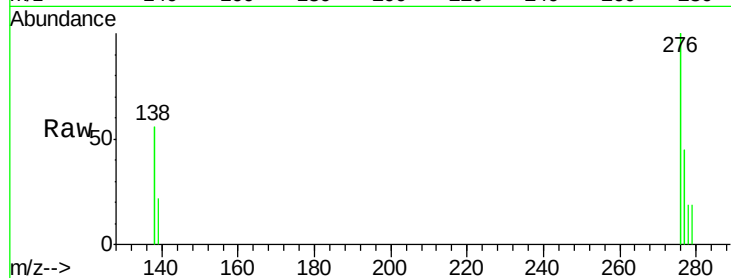
Lab File: BE089466.D

Acq: 31 Jan 2015 11:35

Instrument :

BNA_E

ClientSampleId :



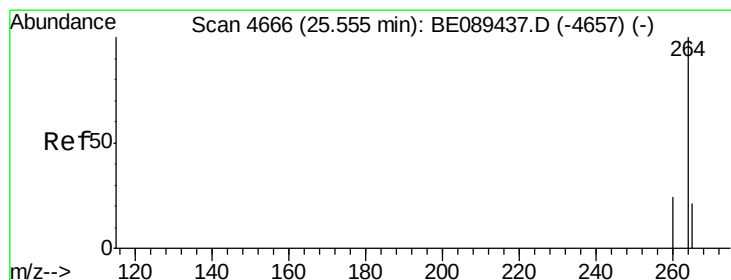
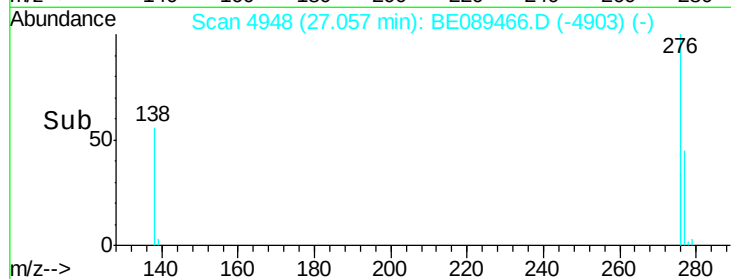
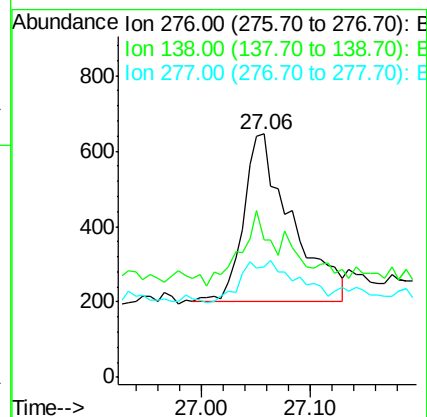
Tgt Ion: 276 Resp: 1372

Ion Ratio Lower Upper

276 100

138 26.7 25.4 38.0

277 13.0 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: BE089466.D

Acq: 31 Jan 2015 11:35

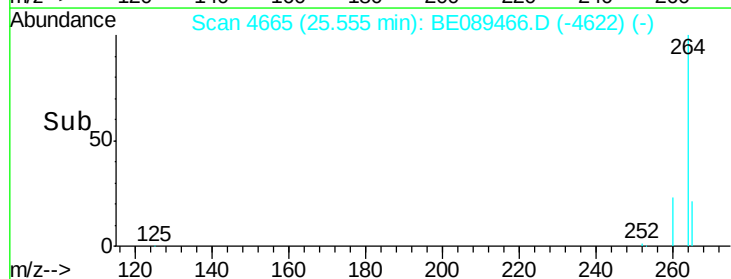
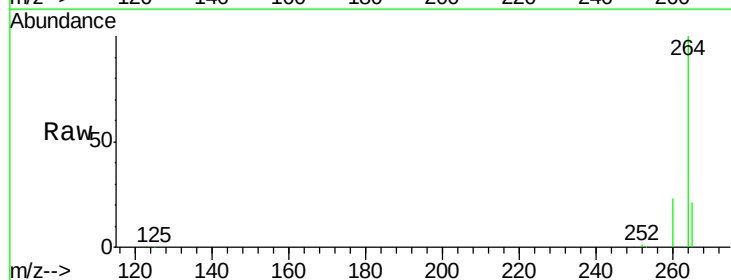
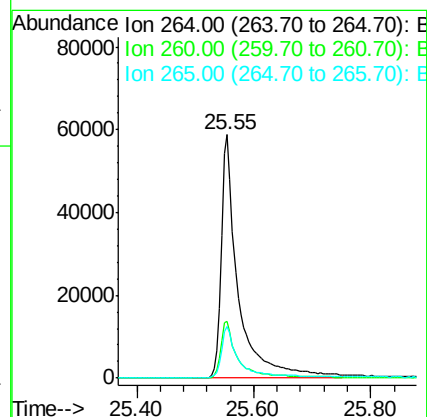
Tgt Ion: 264 Resp: 118397

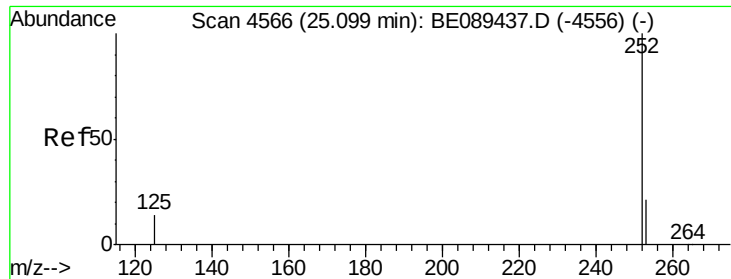
Ion Ratio Lower Upper

264 100

260 23.3 19.4 29.0

265 21.2 17.0 25.6

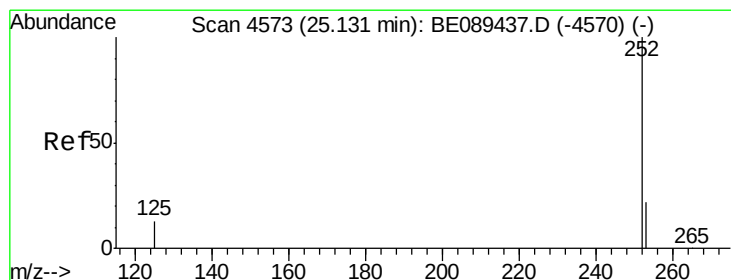
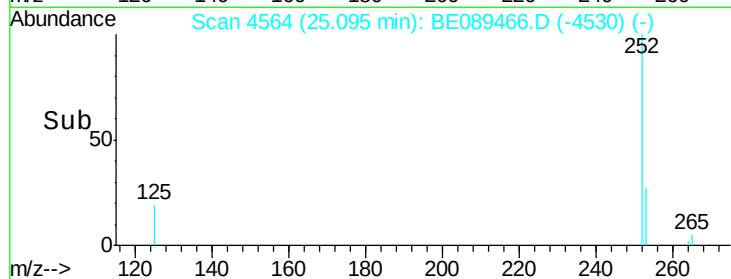
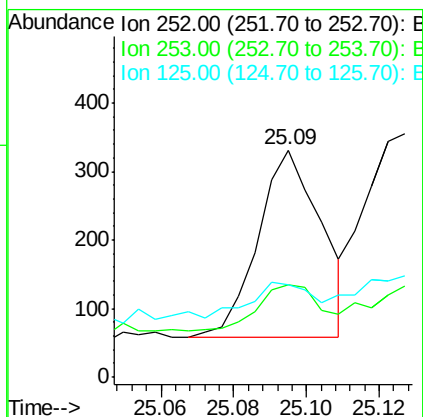
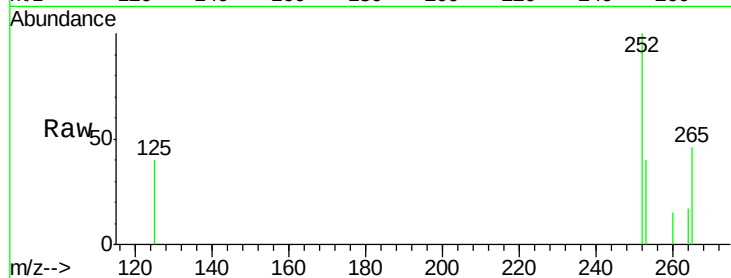




#23
Benzo(b)fluoranthene
Concen: 0.20 ng
RT: 25.09 min Scan# 4564
Delta R.T. -0.00 min
Lab File: BE089466.D
Acq: 31 Jan 2015 11:35

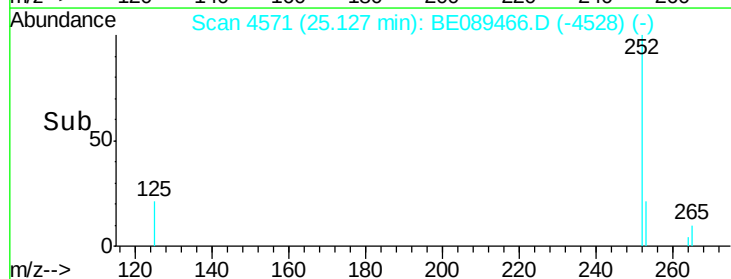
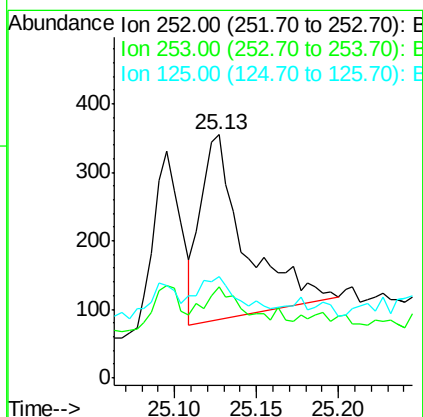
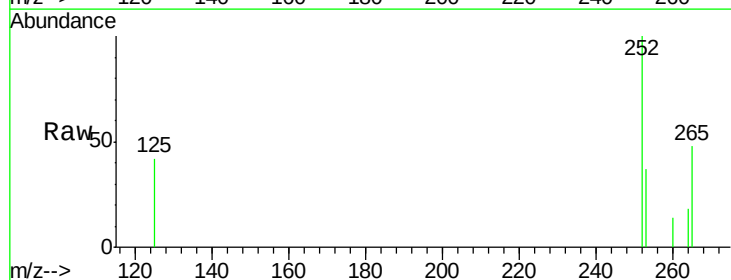
Instrument :
BNA_E
ClientSampleId :

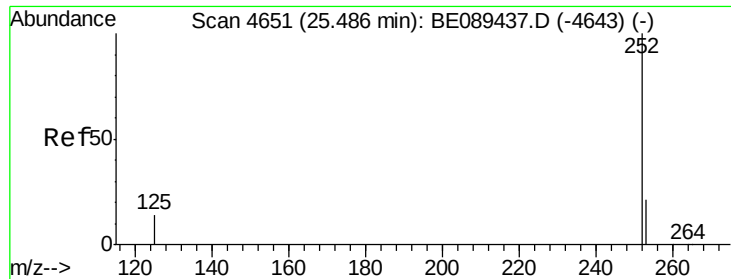
Tgt Ion: 252 Resp: 329
Ion Ratio Lower Upper
252 100
253 40.5 17.0 25.6#
125 40.5 11.4 17.0#



#24
Benzo(k)fluoranthene
Concen: 0.02 ng
RT: 25.13 min Scan# 4571
Delta R.T. -0.00 min
Lab File: BE089466.D
Acq: 31 Jan 2015 11:35

Tgt Ion: 252 Resp: 507
Ion Ratio Lower Upper
252 100
253 37.2 17.4 26.2#
125 41.7 10.9 16.3#





#25

Benzo(a)pyrene

Concen: 0.13 ng

RT: 25.48 min Scan# 4648

Delta R.T. -0.01 min

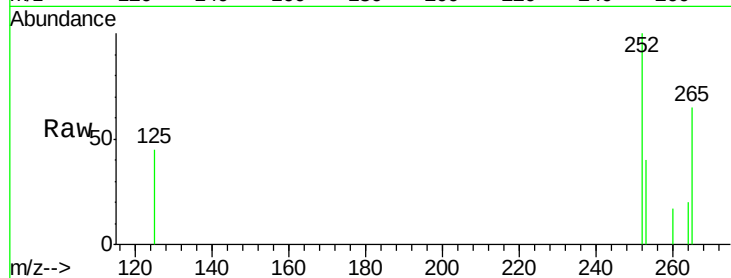
Lab File: BE089466.D

Acq: 31 Jan 2015 11:35

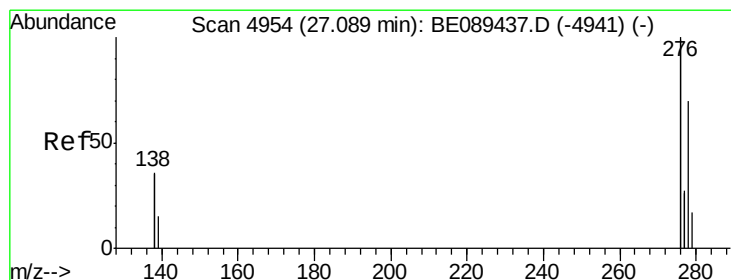
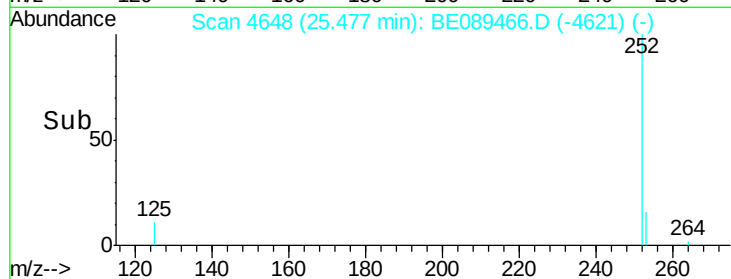
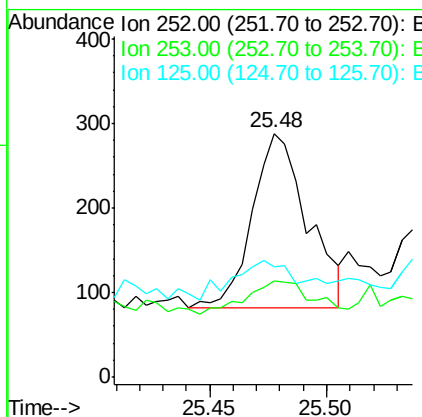
Instrument :

BNA_E

ClientSampleId :



Tgt Ion:	252	Resp:	339
Ion	Ratio	Lower	Upper
252	100		
253	39.6	17.3	25.9#
125	45.1	12.0	18.0#



#26

Dibenzo(a,h)anthracene

Concen: 0.14 ng

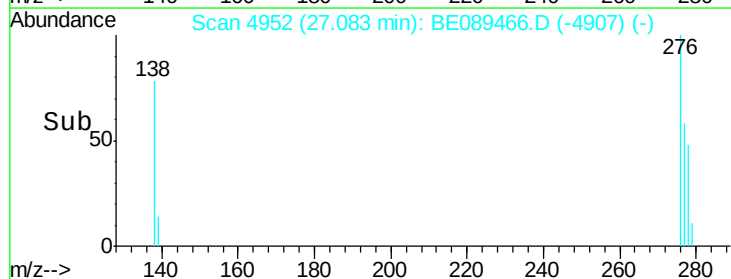
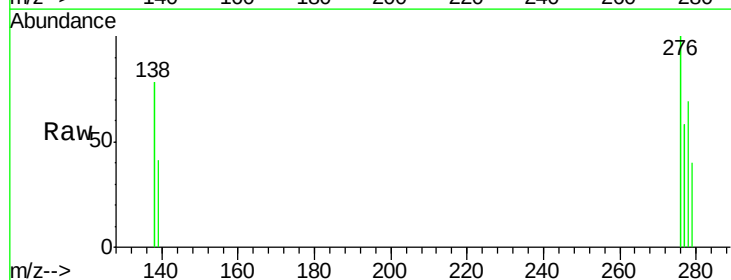
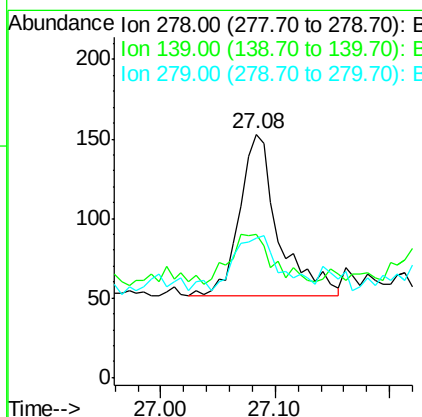
RT: 27.08 min Scan# 4952

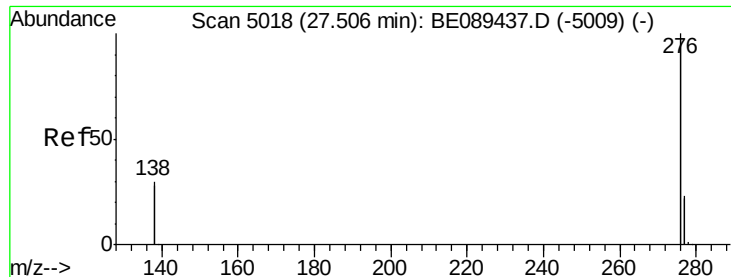
Delta R.T. -0.01 min

Lab File: BE089466.D

Acq: 31 Jan 2015 11:35

Tgt Ion:	278	Resp:	243
Ion	Ratio	Lower	Upper
278	100		
139	58.8	17.0	25.4#
279	57.5	19.1	28.7#





#27

Benzo(g,h,i)perylene

Concen: 0.02 ng

RT: 27.50 min Scan# 5016

Delta R.T. -0.01 min

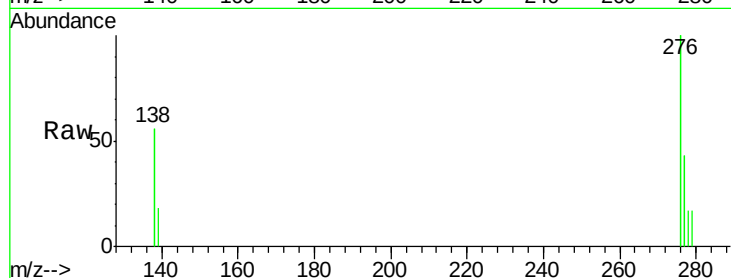
Lab File: BE089466.D

Acq: 31 Jan 2015 11:35

Instrument :

BNA_E

ClientSampleId :



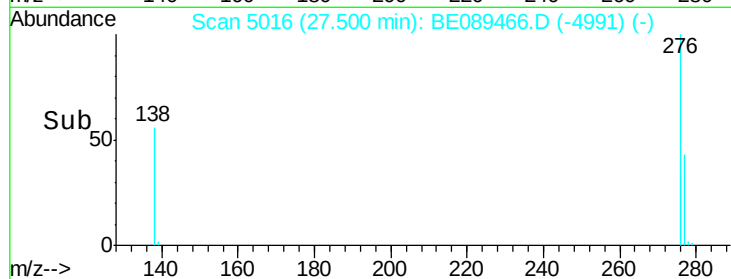
Tgt Ion: 276 Resp: 1678

Ion Ratio Lower Upper

276 100

277 42.7 18.4 27.6#

138 56.0 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

