

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE013015\
 Data File : BE089465.D
 Acq On : 31 Jan 2015 10:56
 Operator : TP/IZ
 Sample : MDL-BLK-S
 Misc : MDL-SOIL-0.1/0.2
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: Feb 02 02:25:08 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	58591	5.00	ng	0.00
2) Naphthalene-d8	12.50	136	237316	5.00	ng	0.00
6) Acenaphthene-d10	16.69	164	117413	5.00	ng	-0.01
11) Phenanthrene-d10	19.99	188	185623	5.00	ng	0.00
16) Chrysene-d12	23.84	240	136924	5.00	ng	0.00
22) Perylene-d12	25.56	264	116759	5.00	ng	0.00

System Monitoring Compounds

3) Nitrobenzene-d5	10.85	82	132253	8.42	ng	0.00
7) 2-Fluorobiphenyl	15.13	172	222192	7.18	ng	0.00
18) Terphenyl-d14	22.48	244	180286	8.79	ng	0.00

Target Compounds

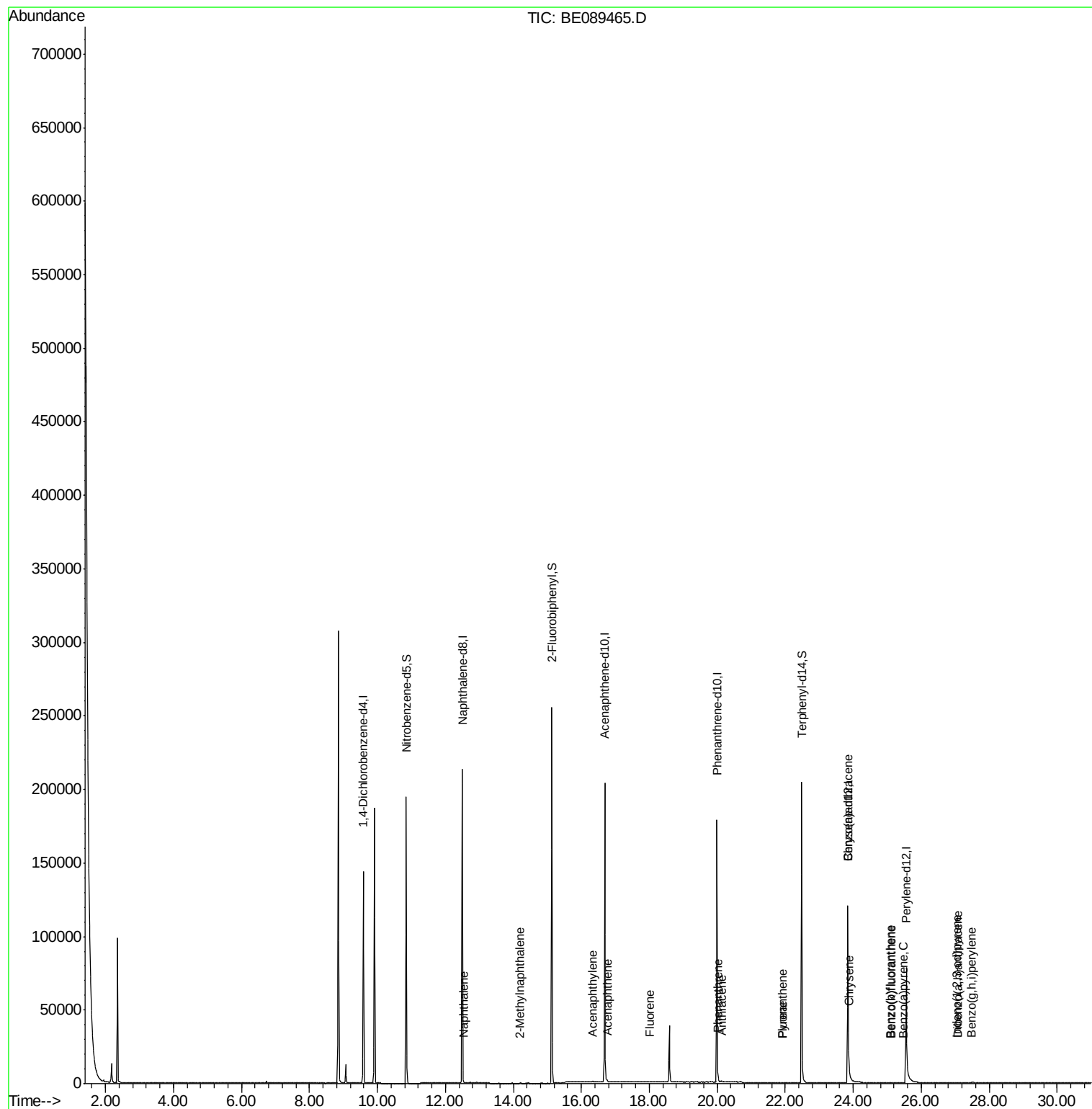
						Qvalue
4) Naphthalene	12.54	128	256	0.00	ng	# 53
5) 2-Methylnaphthalene	14.20	142	211	0.01	ng	# 72
8) Acenaphthylene	16.33	152	1339	0.01	ng	# 84
9) Acenaphthene	16.76	154	235	0.01	ng	# 6
10) Fluorene	18.01	166	249	0.01	ng	# 92
12) Pentachlorophenol	19.66	266	112	Below Cal		# 81
13) Phenanthrene	20.03	178	1528	0.01	ng	98
14) Anthracene	20.12	178	1077	0.01	ng	95
15) Fluoranthene	21.91	202	247	0.01	ng	97
17) Pyrene	21.91	202	247	0.01	ng	95
19) Benzo(a)anthracene	23.84	228	1762	0.02	ng	# 80
20) Chrysene	23.87	228	1047	0.01	ng	# 64
21) Indeno(1,2,3-cd)pyrene	27.06	276	209	0.00	ng	# 69
23) Benzo(b)fluoranthene	25.09	252	59	0.19	ng	# 1
24) Benzo(k)fluoranthene	25.13	252	42	0.00	ng	# 1
25) Benzo(a)pyrene	25.48	252	45	0.12	ng	# 1
26) Dibenzo(a,h)anthracene	27.07	278	43	0.13	ng	# 1
27) Benzo(g,h,i)perylene	27.50	276	204	0.00	ng	# 1

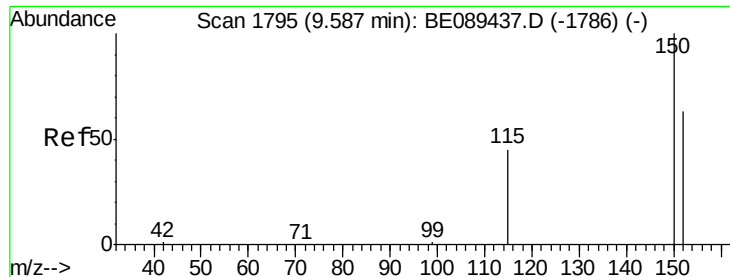
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 9.58 min Scan# 1795

Delta R.T. -0.00 min

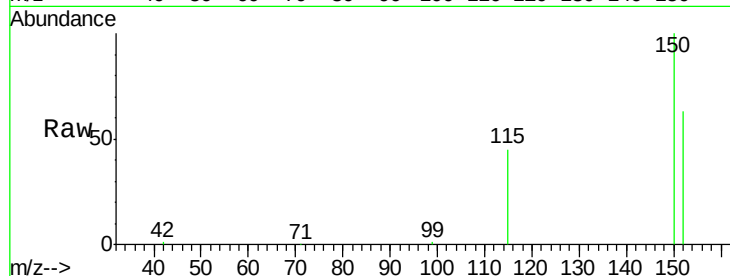
Lab File: BE089465.D

Acq: 31 Jan 2015 10:56

Instrument :

BNA_E

ClientSampleId :



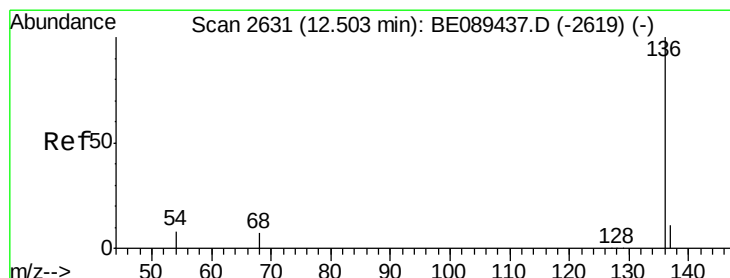
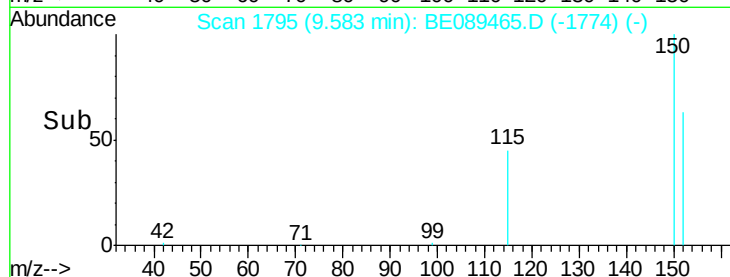
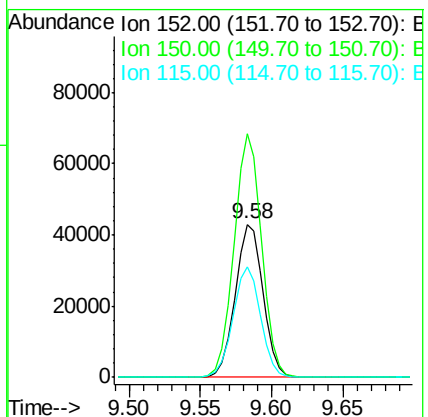
Tgt Ion:152 Resp: 58591

Ion Ratio Lower Upper

152 100

150 159.3 127.2 190.8

115 72.3 57.5 86.3



#2

Naphthalene-d8

Concen: 5.00 ng

RT: 12.50 min Scan# 2630

Delta R.T. -0.01 min

Lab File: BE089465.D

Acq: 31 Jan 2015 10:56

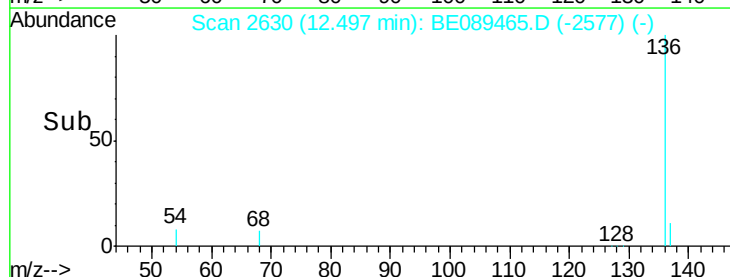
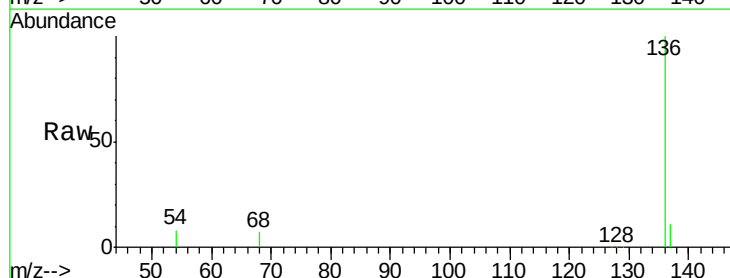
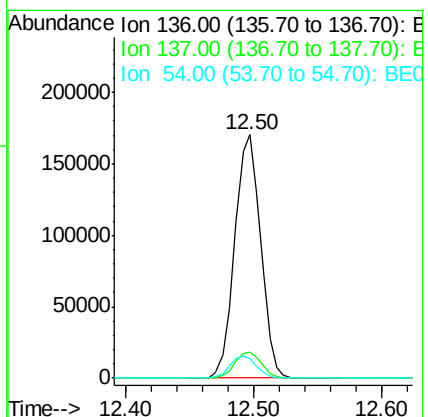
Tgt Ion:136 Resp: 237316

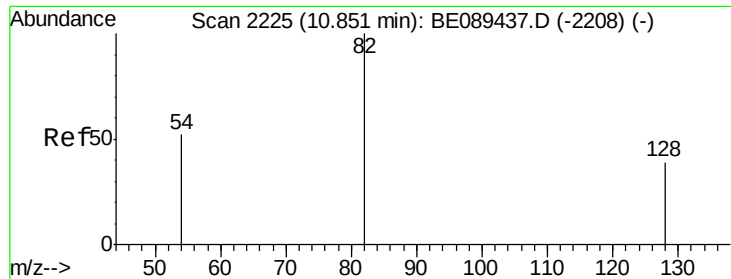
Ion Ratio Lower Upper

136 100

137 10.8 8.7 13.1

54 8.0 6.6 10.0





#3

Nitrobenzene-d5

Concen: 8.42 ng

RT: 10.85 min Scan# 2224

Delta R.T. -0.00 min

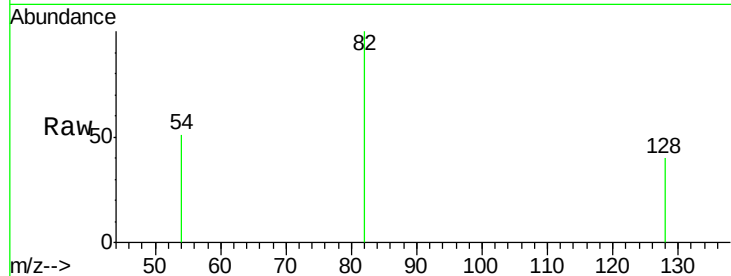
Lab File: BE089465.D

Acq: 31 Jan 2015 10:56

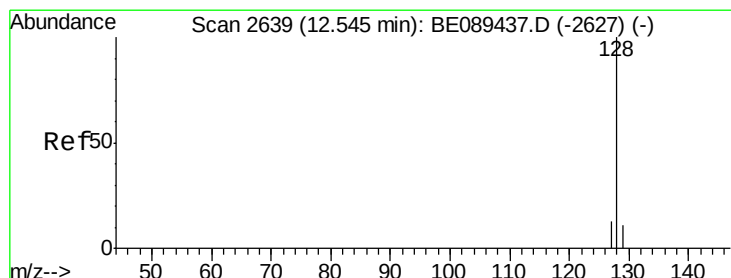
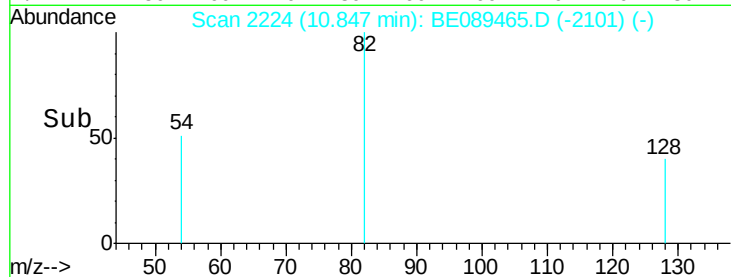
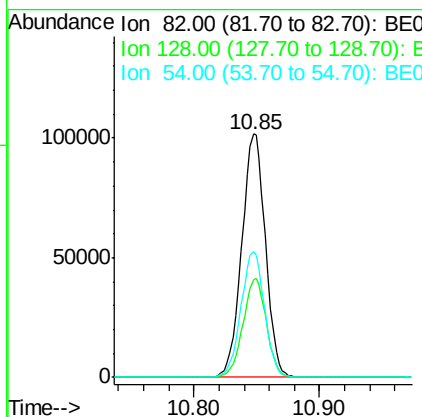
Instrument :

BNA_E

ClientSampleId :



Tgt Ion:	82	Resp:	132253
Ion	Ratio	Lower	Upper
82	100		
128	40.1	31.2	46.8
54	51.5	41.9	62.9



#4

Naphthalene

Concen: 0.00 ng

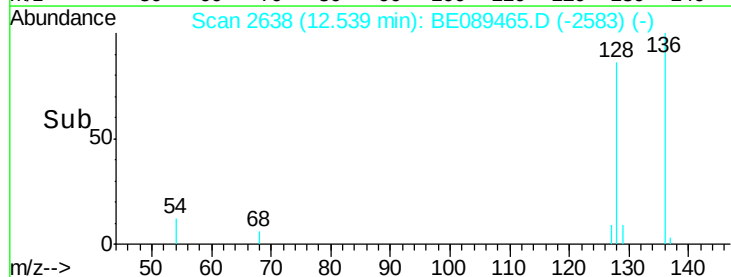
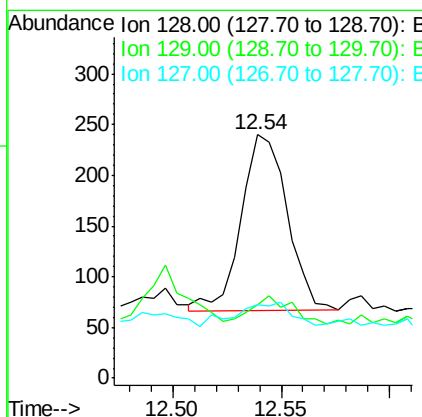
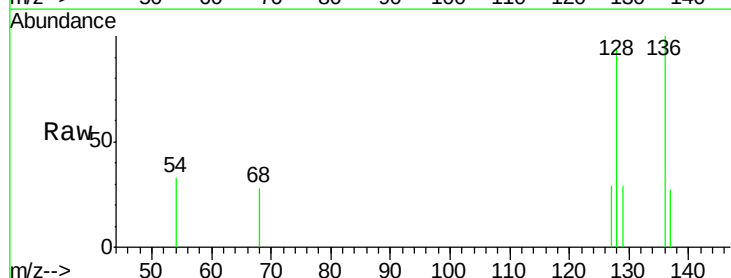
RT: 12.54 min Scan# 2638

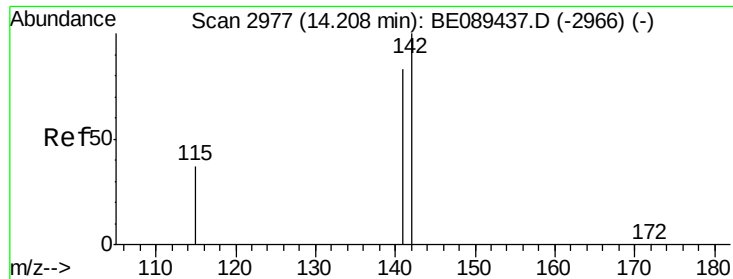
Delta R.T. -0.01 min

Lab File: BE089465.D

Acq: 31 Jan 2015 10:56

Tgt Ion:	128	Resp:	256
Ion	Ratio	Lower	Upper
128	100		
129	30.4	8.8	13.2#
127	30.4	10.6	16.0#





#5

2-Methylnaphthalene

Concen: 0.01 ng

RT: 14.20 min Scan# 2976

Delta R.T. -0.01 min

Lab File: BE089465.D

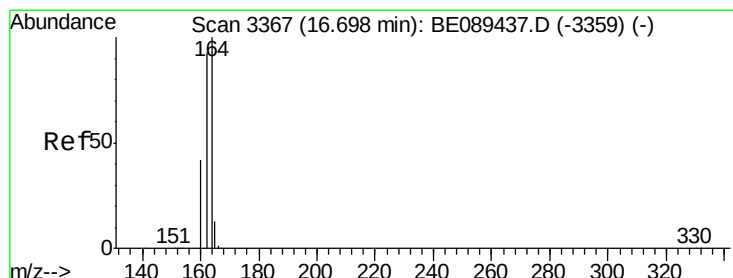
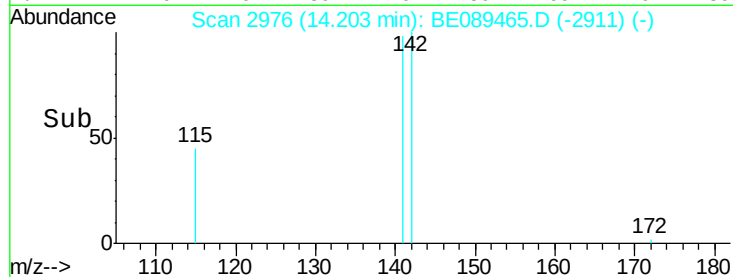
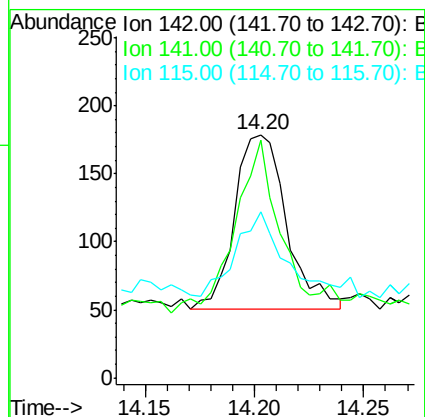
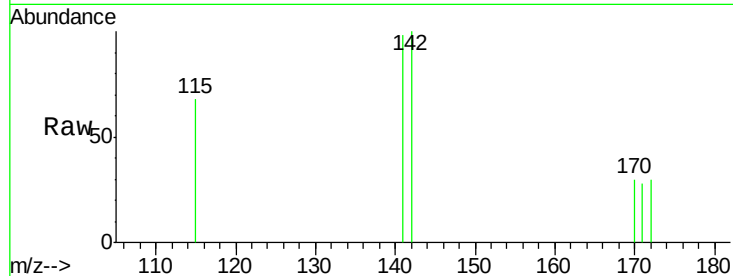
Acq: 31 Jan 2015 10:56

Instrument :

BNA_E

ClientSampleId :

Tgt Ion:	142	Resp:	211
Ion	Ratio	Lower	Upper
142	100		
141	97.8	66.1	99.1
115	68.2	29.9	44.9#



#6

Acenaphthene-d10

Concen: 5.00 ng

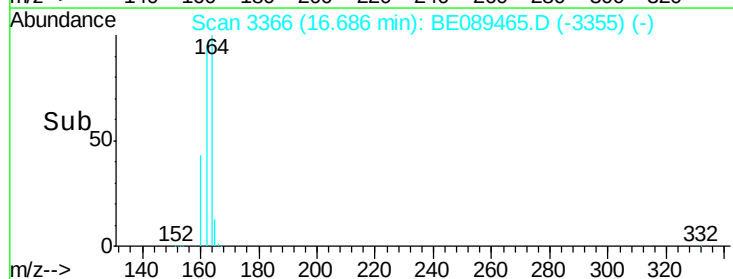
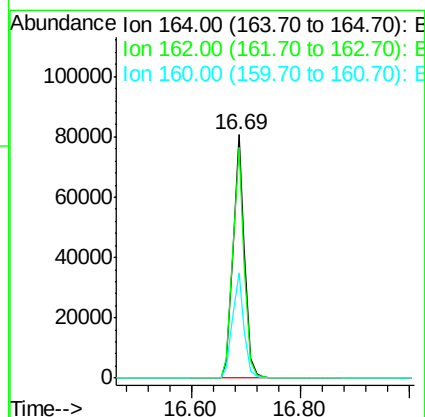
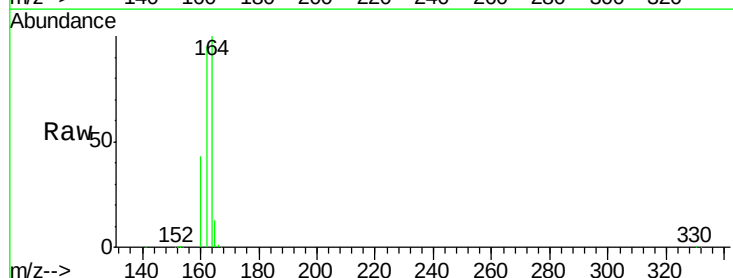
RT: 16.69 min Scan# 3366

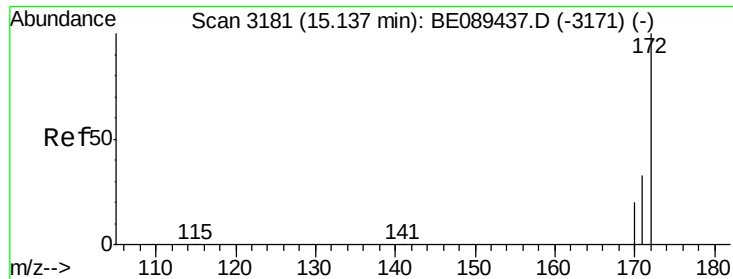
Delta R.T. -0.01 min

Lab File: BE089465.D

Acq: 31 Jan 2015 10:56

Tgt Ion:	164	Resp:	117413
Ion	Ratio	Lower	Upper
164	100		
162	94.8	74.7	112.1
160	43.4	33.4	50.0





#7

2-Fluorobiphenyl

Concen: 7.18 ng

RT: 15.13 min Scan# 3180

Delta R.T. -0.01 min

Lab File: BE089465.D

Acq: 31 Jan 2015 10:56

Instrument :

BNA_E

ClientSampleId :

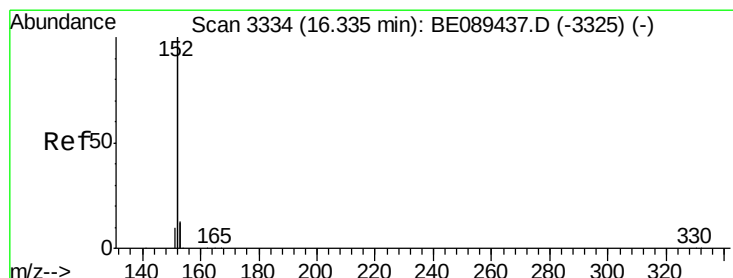
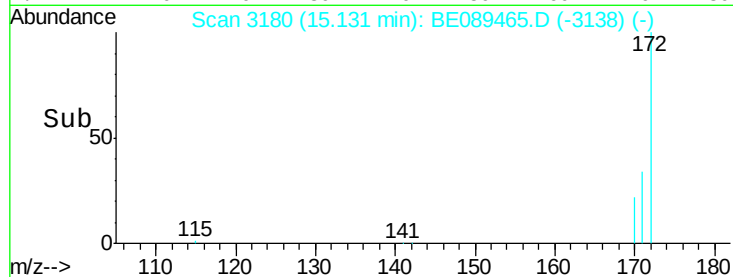
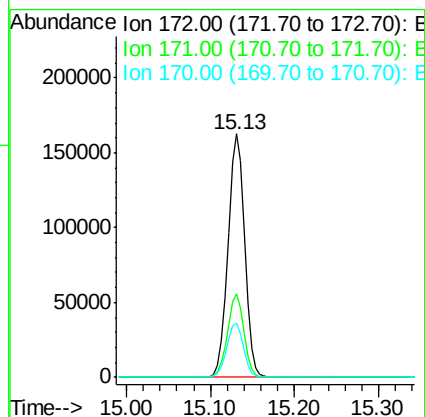
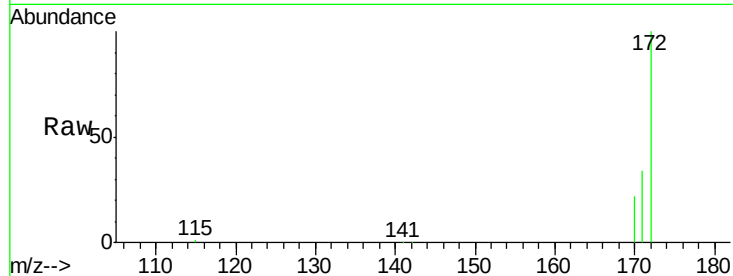
Tgt Ion:172 Resp: 222192

Ion Ratio Lower Upper

172 100

171 34.2 26.2 39.4

170 22.4 16.5 24.7



#8

Acenaphthylene

Concen: 0.01 ng

RT: 16.33 min Scan# 3334

Delta R.T. -0.00 min

Lab File: BE089465.D

Acq: 31 Jan 2015 10:56

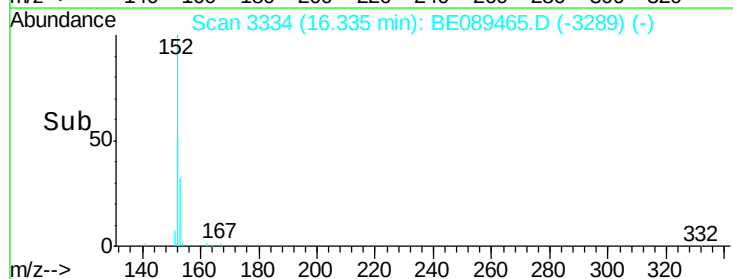
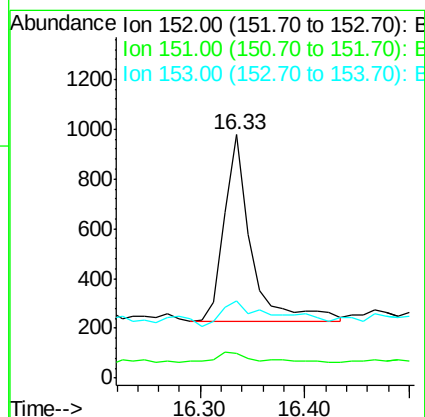
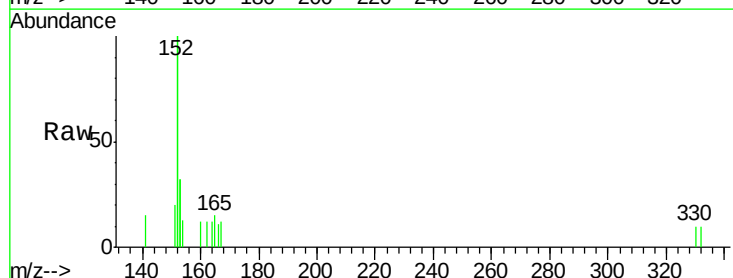
Tgt Ion:152 Resp: 1339

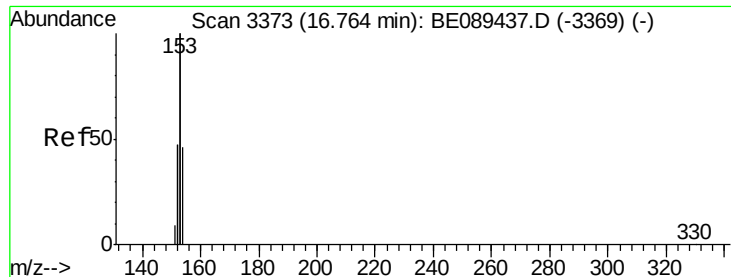
Ion Ratio Lower Upper

152 100

151 6.0 3.9 5.9#

153 21.1 10.3 15.5#





#9

Acenaphthene

Concen: 0.01 ng

RT: 16.76 min Scan# 3373

Delta R.T. -0.00 min

Lab File: BE089465.D

Acq: 31 Jan 2015 10:56

Instrument :

BNA_E

ClientSampleId :

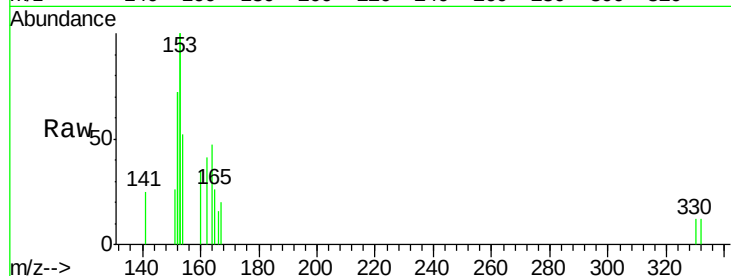
Tgt Ion:154 Resp: 235

Ion Ratio Lower Upper

154 100

153 561.7 342.3 513.5#

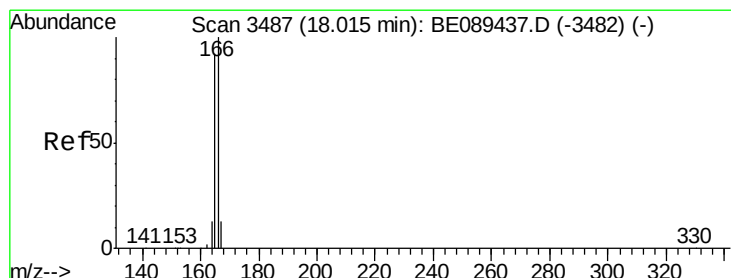
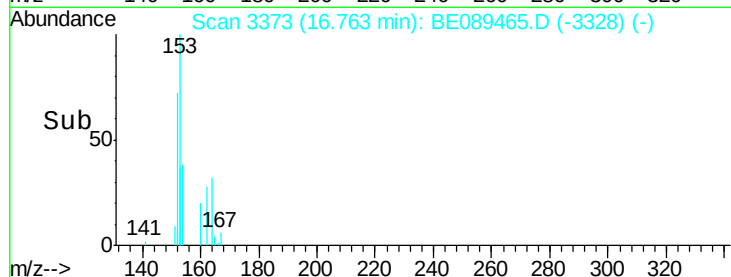
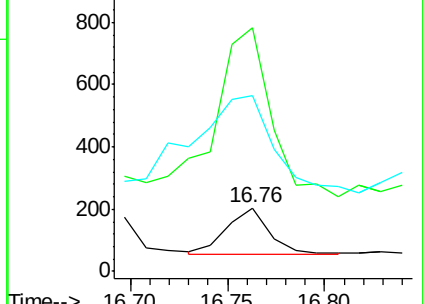
152 482.6 165.5 248.3#



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: 0.01 ng

RT: 18.01 min Scan# 3487

Delta R.T. -0.00 min

Lab File: BE089465.D

Acq: 31 Jan 2015 10:56

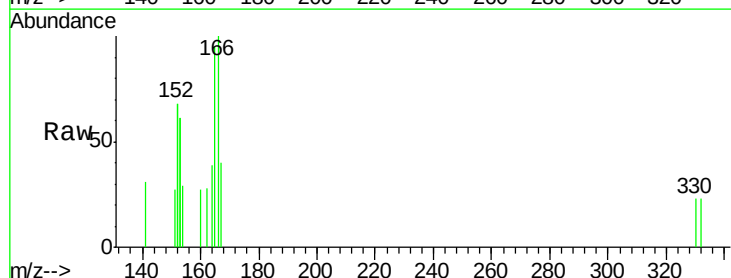
Tgt Ion:166 Resp: 249

Ion Ratio Lower Upper

166 100

165 98.0 74.4 111.6

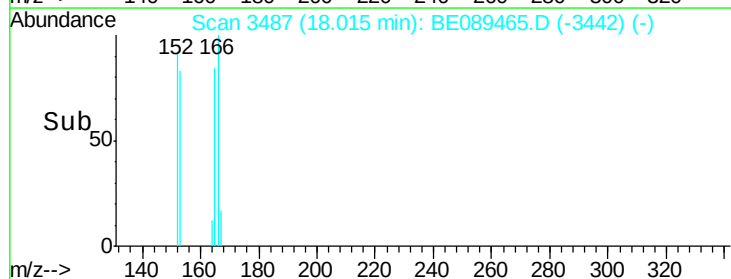
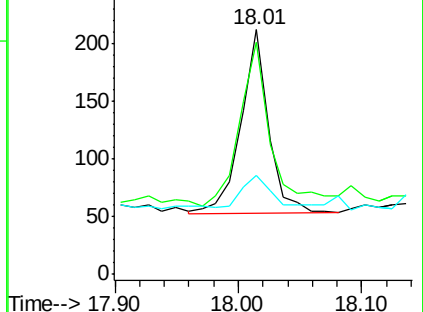
167 23.7 10.6 15.8#

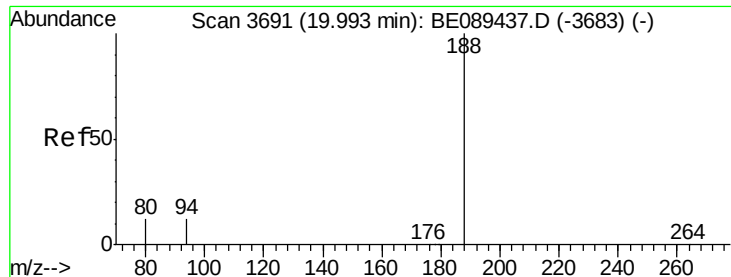


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

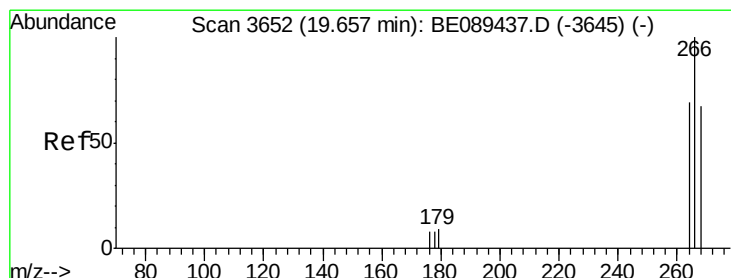
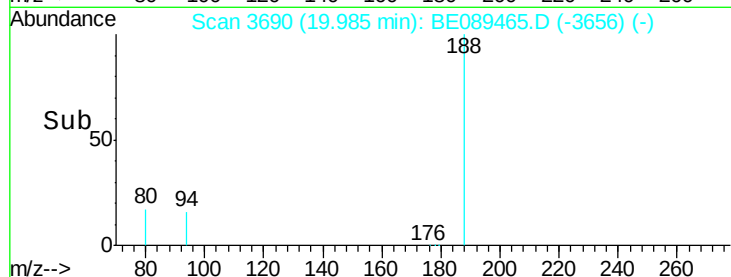
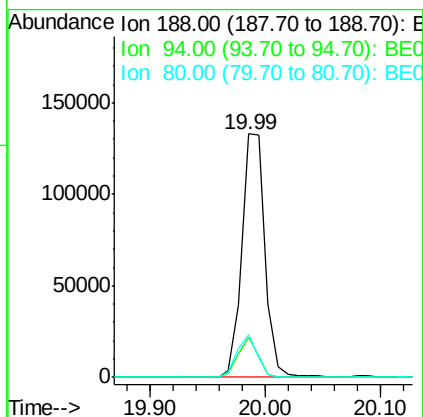
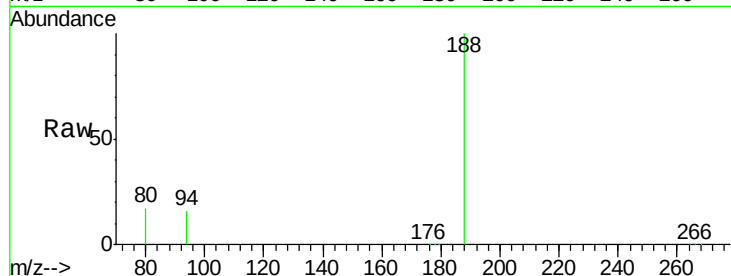




#11
Phenanthrene-d10
Concen: 5.00 ng
RT: 19.99 min Scan# 3690
Delta R.T. -0.01 min
Lab File: BE089465.D
Acq: 31 Jan 2015 10:56

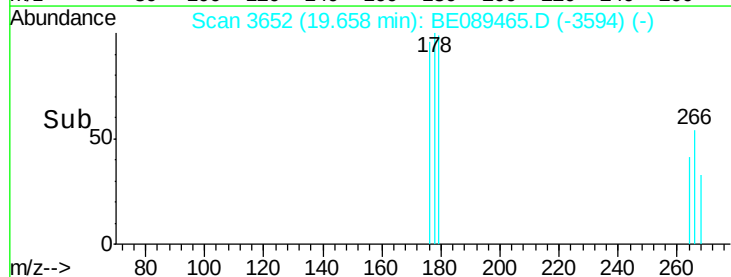
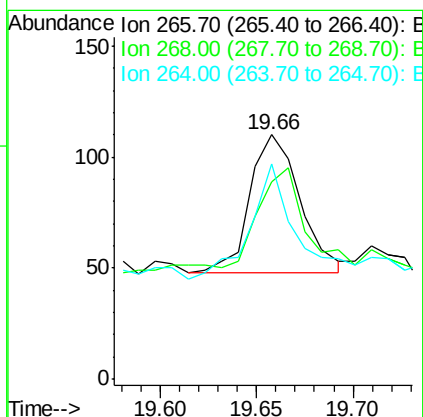
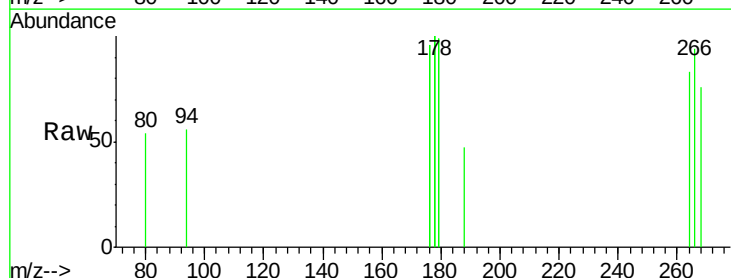
Instrument :
BNA_E
ClientSampleId :

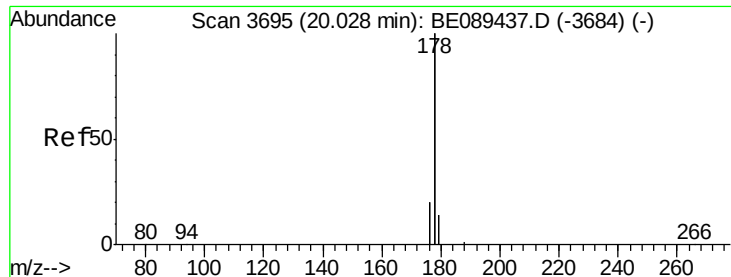
Tgt Ion:188 Resp: 185623
Ion Ratio Lower Upper
188 100
94 16.3 9.4 14.0#
80 17.4 9.3 13.9#



#12
Pentachlorophenol
Concen: Below Cal
RT: 19.66 min Scan# 3652
Delta R.T. 0.00 min
Lab File: BE089465.D
Acq: 31 Jan 2015 10:56

Tgt Ion:266 Resp: 112
Ion Ratio Lower Upper
266 100
268 80.9 54.2 81.4
264 88.2 56.2 84.2#





#13

Phenanthrene

Concen: 0.01 ng

RT: 20.03 min Scan# 3695

Delta R.T. 0.00 min

Lab File: BE089465.D

Acq: 31 Jan 2015 10:56

Instrument :

BNA_E

ClientSampleId :

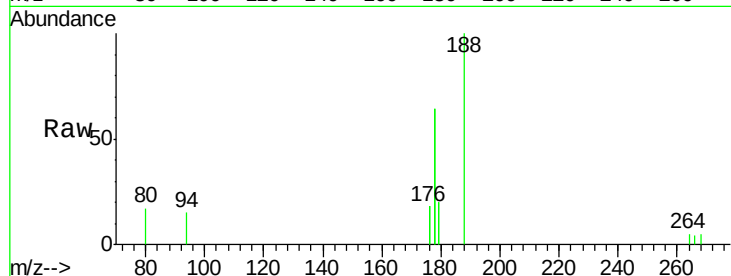
Tgt Ion:178 Resp: 1528

Ion Ratio Lower Upper

178 100

176 19.0 15.1 22.7

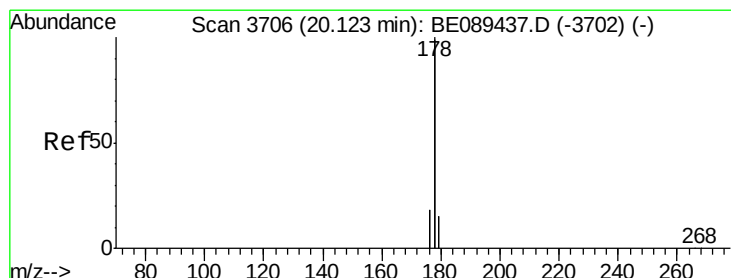
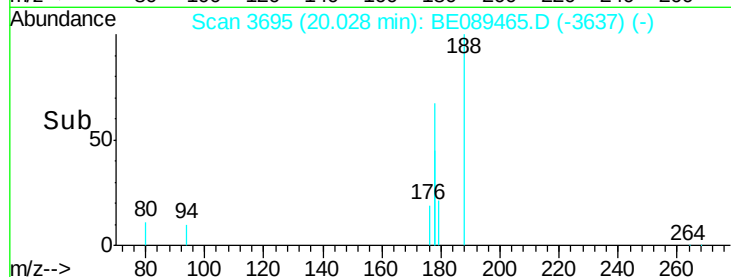
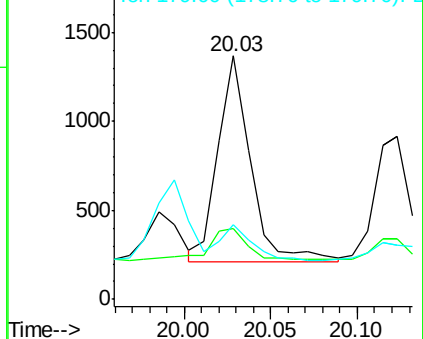
179 17.6 12.3 18.5



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: 0.01 ng

RT: 20.12 min Scan# 3706

Delta R.T. 0.00 min

Lab File: BE089465.D

Acq: 31 Jan 2015 10:56

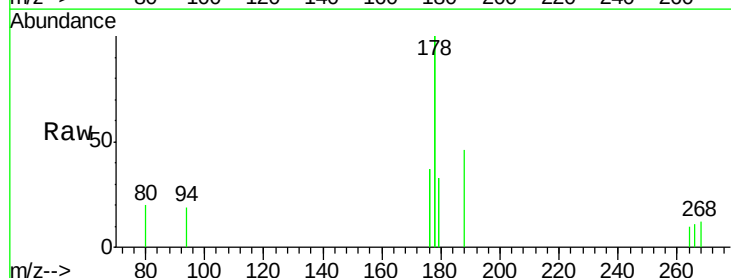
Tgt Ion:178 Resp: 1077

Ion Ratio Lower Upper

178 100

176 20.0 14.6 22.0

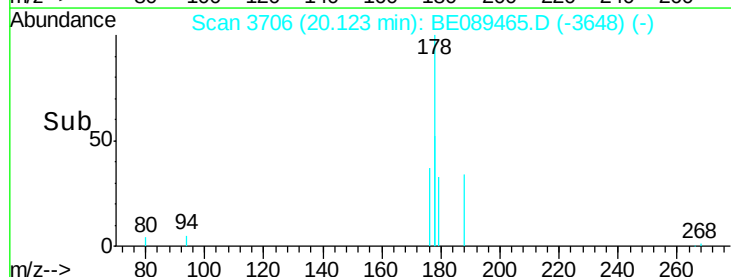
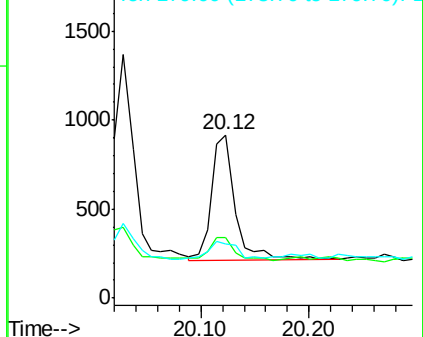
179 18.0 12.2 18.2

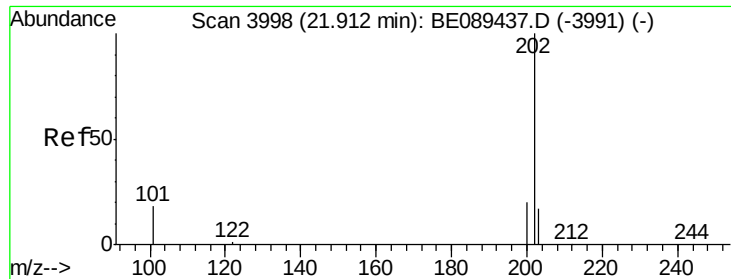


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

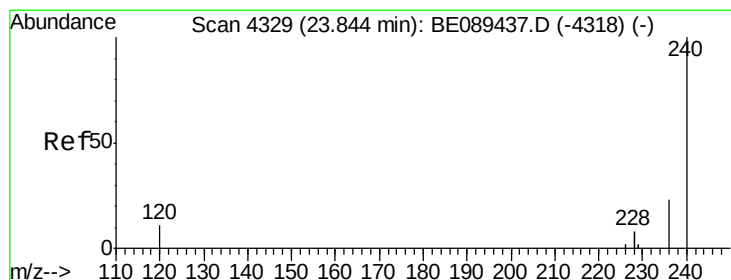
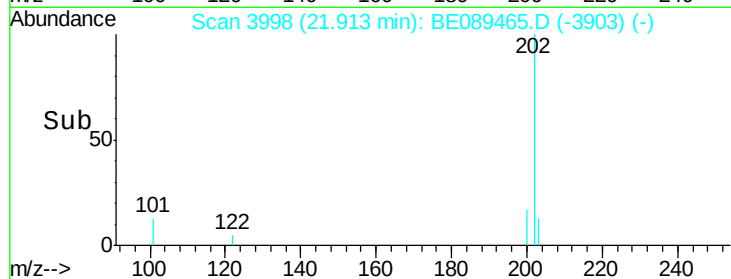
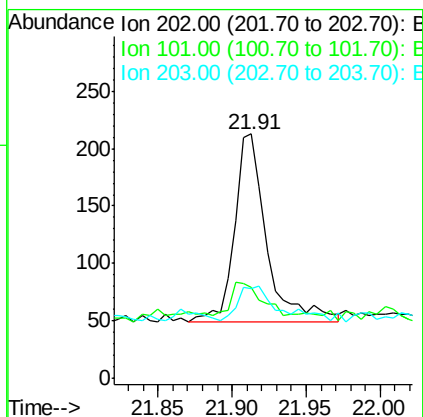
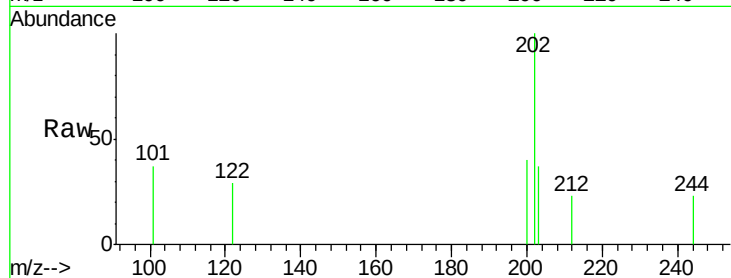




#15
 Fluoranthene
 Concen: 0.01 ng
 RT: 21.91 min Scan# 3998
 Delta R.T. 0.00 min
 Lab File: BE089465.D
 Acq: 31 Jan 2015 10:56

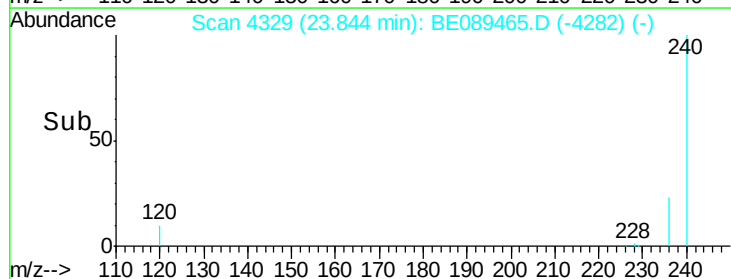
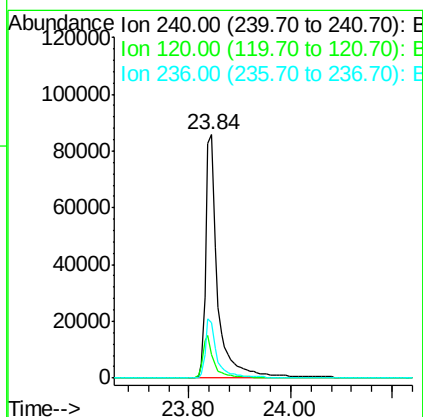
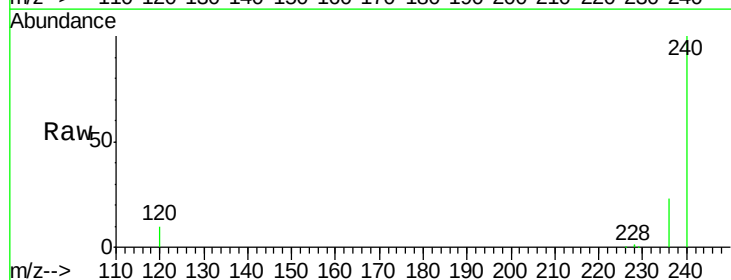
Instrument :
 BNA_E
 ClientSampled :

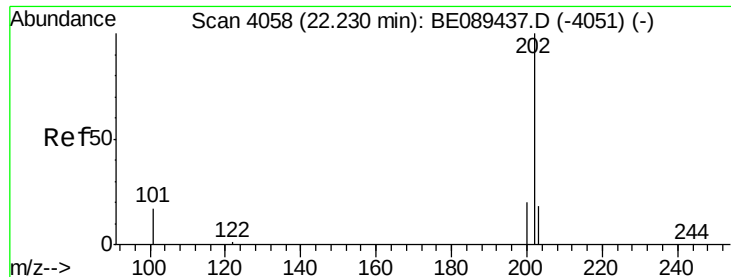
Tgt Ion: 202 Resp: 247
 Ion Ratio Lower Upper
 202 100
 101 18.2 13.6 20.4
 203 18.2 13.8 20.6



#16
 Chrysene-d12
 Concen: 5.00 ng
 RT: 23.84 min Scan# 4329
 Delta R.T. 0.00 min
 Lab File: BE089465.D
 Acq: 31 Jan 2015 10:56

Tgt Ion: 240 Resp: 136924
 Ion Ratio Lower Upper
 240 100
 120 9.7 8.6 13.0
 236 22.6 18.7 28.1

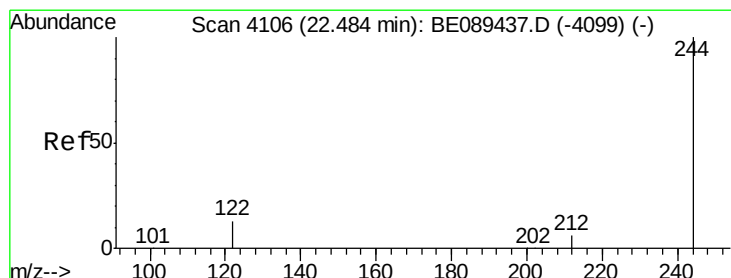
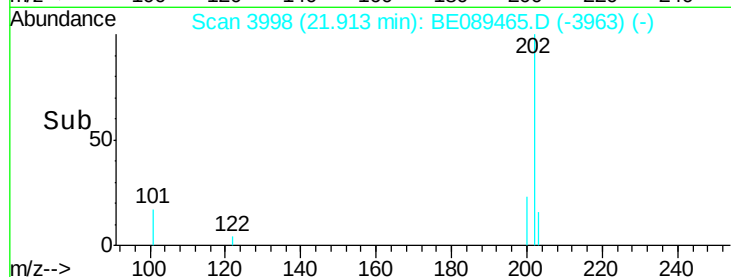
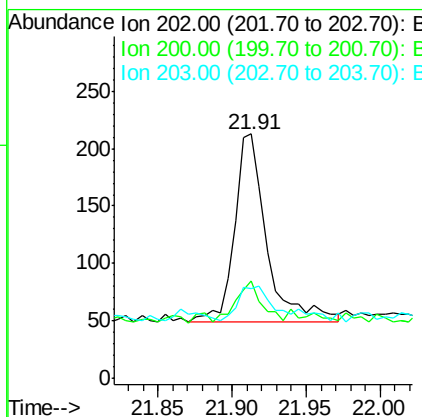
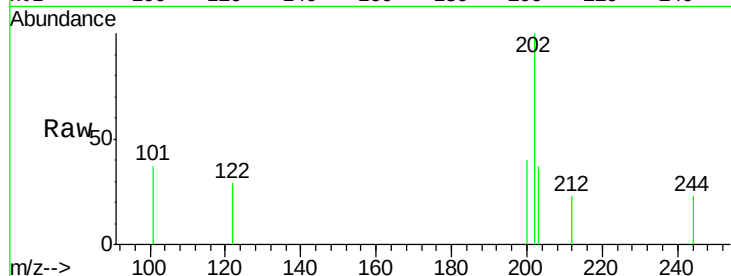




#17
 Pyrene
 Concen: 0.01 ng
 RT: 21.91 min Scan# 3998
 Delta R.T. -0.32 min
 Lab File: BE089465.D
 Acq: 31 Jan 2015 10:56

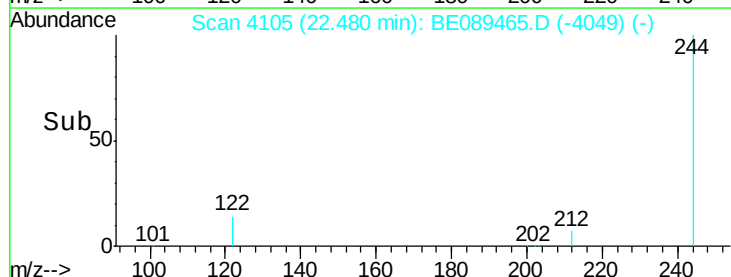
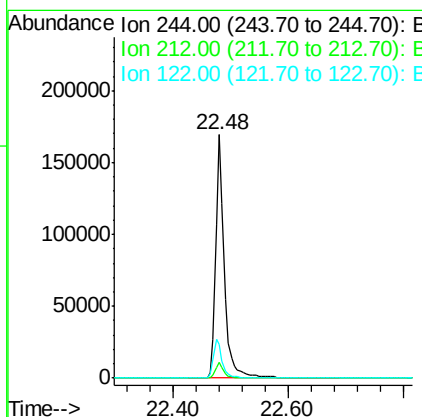
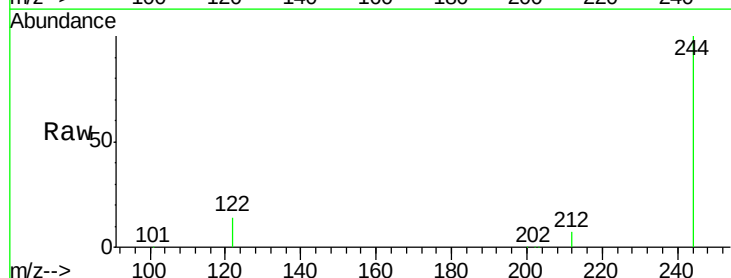
Instrument :
 BNA_E
 ClientSampleId :

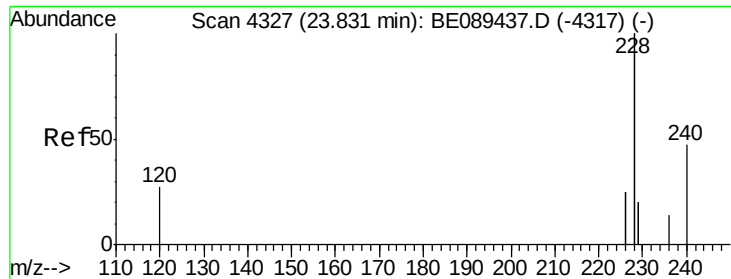
Tgt Ion: 202 Resp: 247
 Ion Ratio Lower Upper
 202 100
 200 17.0 16.2 24.4
 203 18.2 13.8 20.8



#18
 Terphenyl-d14
 Concen: 8.79 ng
 RT: 22.48 min Scan# 4105
 Delta R.T. -0.00 min
 Lab File: BE089465.D
 Acq: 31 Jan 2015 10:56

Tgt Ion: 244 Resp: 180286
 Ion Ratio Lower Upper
 244 100
 212 6.6 5.0 7.6
 122 13.8 10.2 15.4





#19

Benzo(a)anthracene

Concen: 0.02 ng

RT: 23.84 min Scan# 4328

Delta R.T. 0.01 min

Lab File: BE089465.D

Acq: 31 Jan 2015 10:56

Instrument :

BNA_E

ClientSampleId :

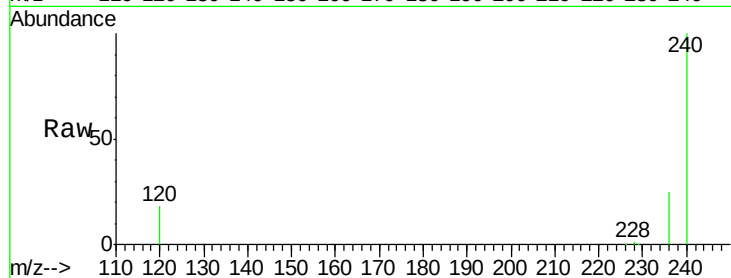
Tgt Ion:228 Resp: 1762

Ion Ratio Lower Upper

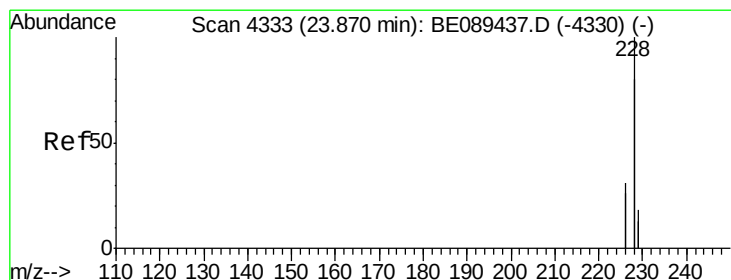
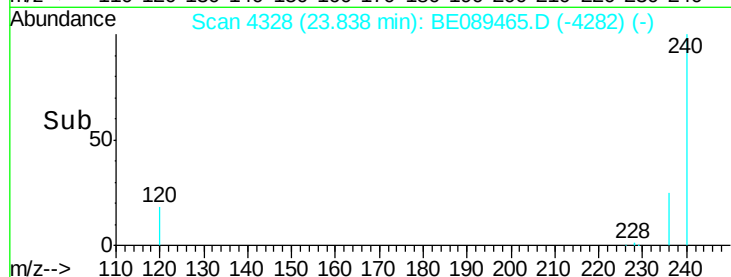
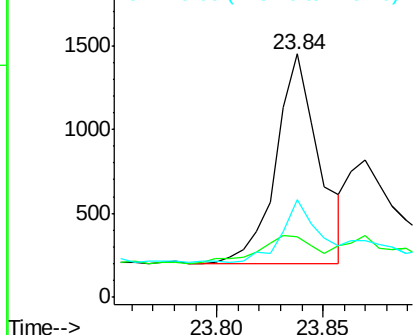
228 100

226 25.0 20.0 30.0

229 40.3 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: 0.01 ng

RT: 23.87 min Scan# 4333

Delta R.T. 0.00 min

Lab File: BE089465.D

Acq: 31 Jan 2015 10:56

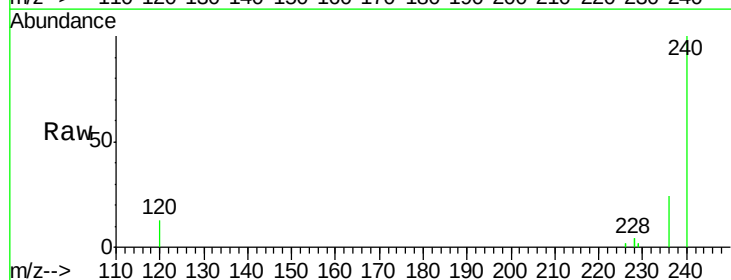
Tgt Ion:228 Resp: 1047

Ion Ratio Lower Upper

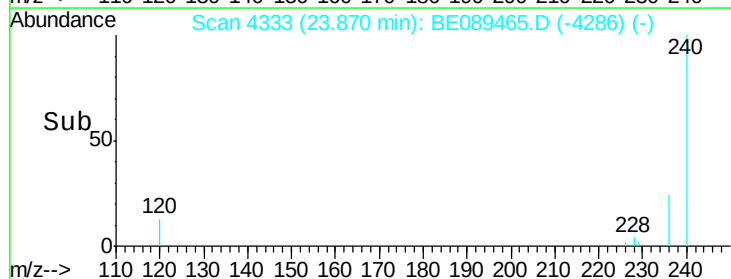
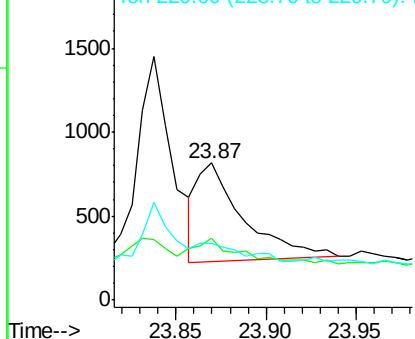
228 100

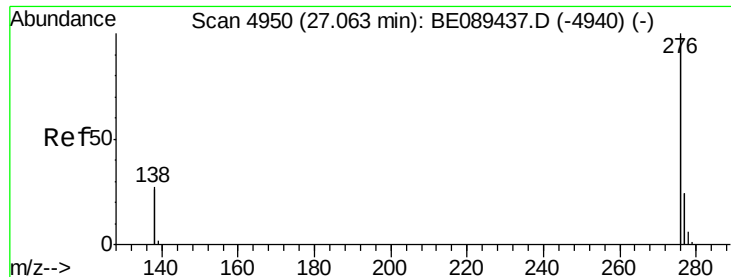
226 44.9 24.5 36.7#

229 40.9 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: 0.00 ng

RT: 27.06 min Scan# 4949

Delta R.T. -0.01 min

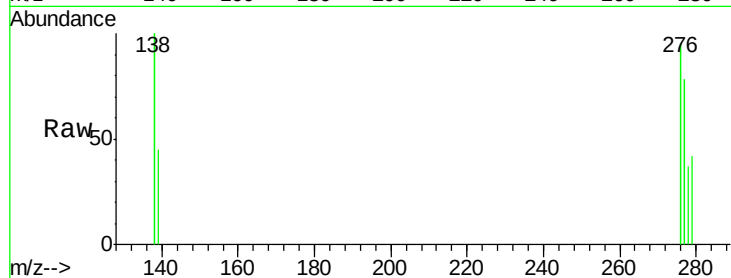
Lab File: BE089465.D

Acq: 31 Jan 2015 10:56

Instrument :

BNA_E

ClientSampleId :



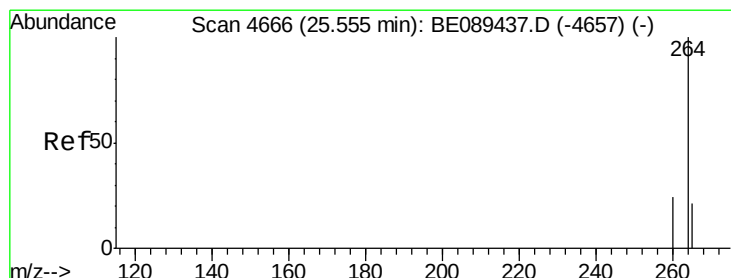
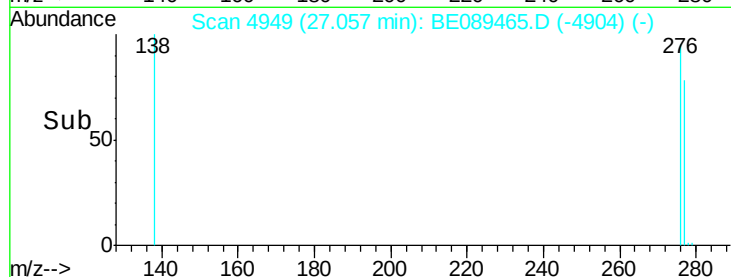
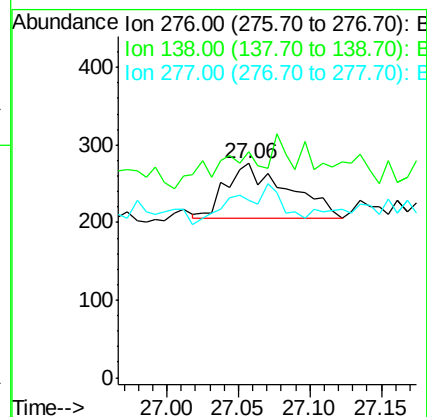
Tgt Ion:276 Resp: 209

Ion Ratio Lower Upper

276 100

138 56.0 25.4 38.0#

277 32.1 19.8 29.6#



#22

Perylene-d12

Concen: 5.00 ng

RT: 25.56 min Scan# 4666

Delta R.T. 0.00 min

Lab File: BE089465.D

Acq: 31 Jan 2015 10:56

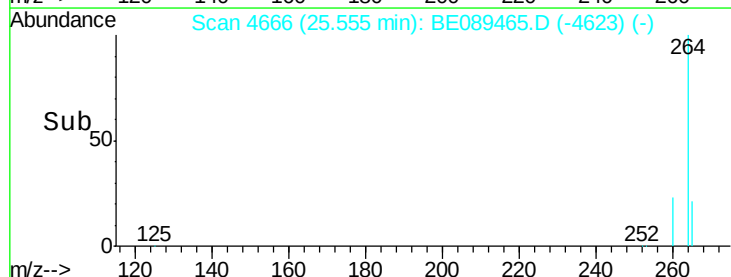
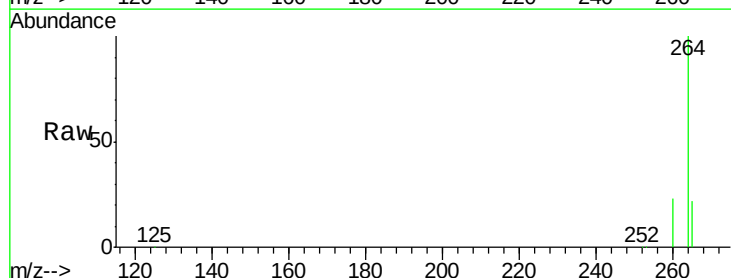
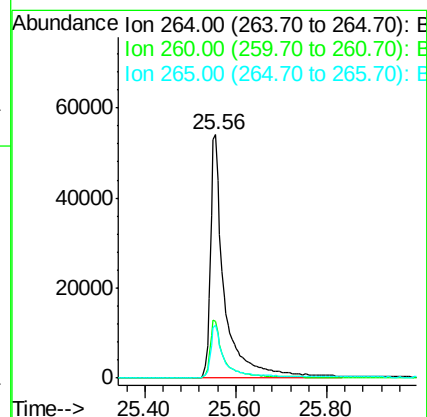
Tgt Ion:264 Resp: 116759

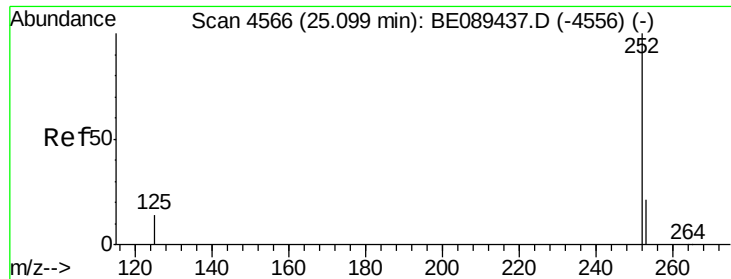
Ion Ratio Lower Upper

264 100

260 23.1 19.4 29.0

265 21.6 17.0 25.6





#23

Benzo(b)fluoranthene

Concen: 0.19 ng

RT: 25.09 min Scan# 4564

Delta R.T. -0.01 min

Lab File: BE089465.D

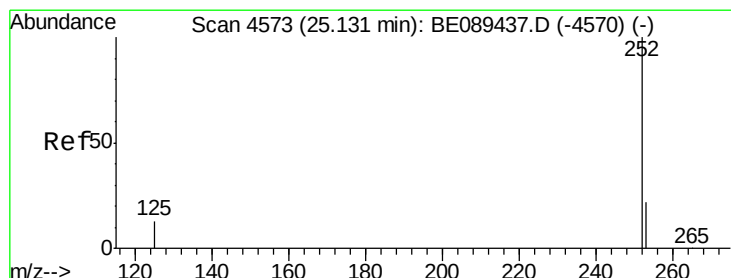
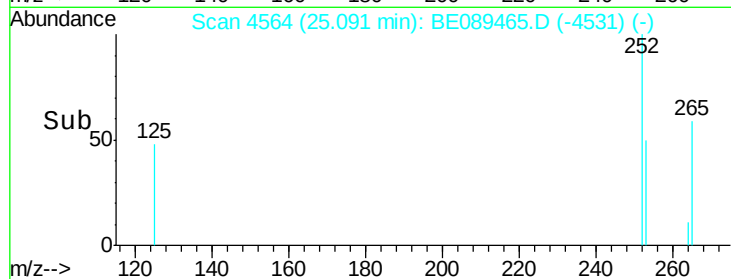
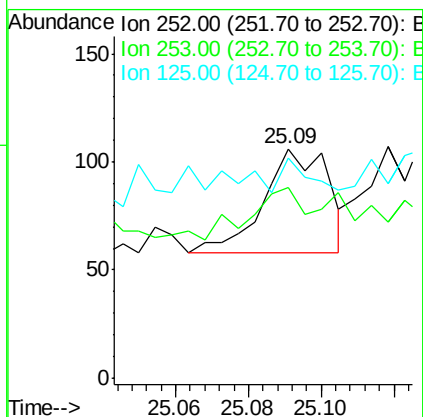
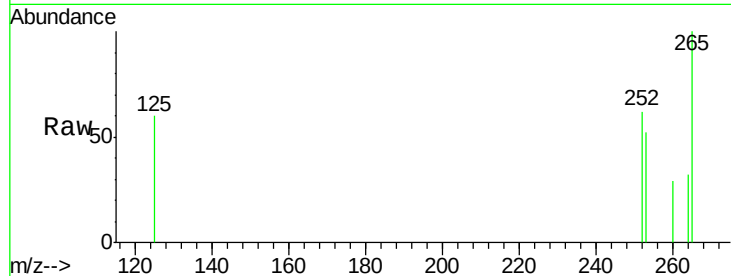
Acq: 31 Jan 2015 10:56

Instrument :

BNA_E

ClientSampleId :

Tgt Ion:	252	Resp:	59
Ion	Ratio	Lower	Upper
252	100		
253	83.0	17.0	25.6#
125	96.2	11.4	17.0#



#24

Benzo(k)fluoranthene

Concen: 0.00 ng

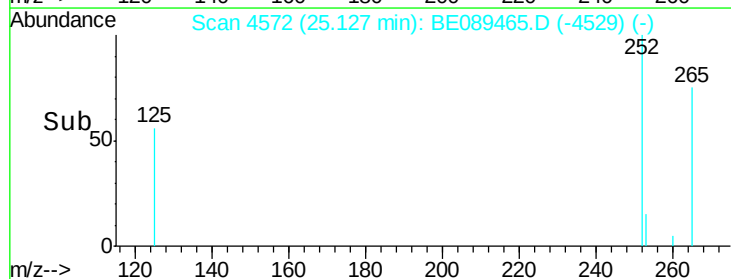
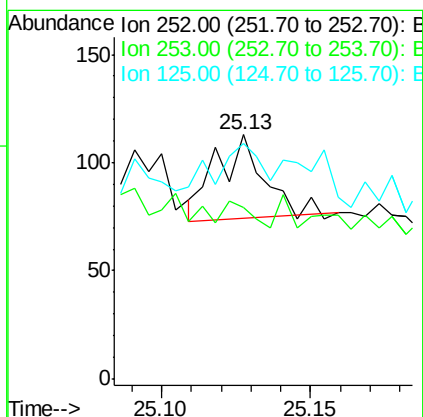
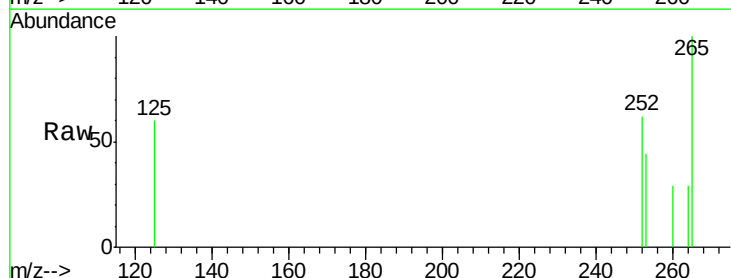
RT: 25.13 min Scan# 4572

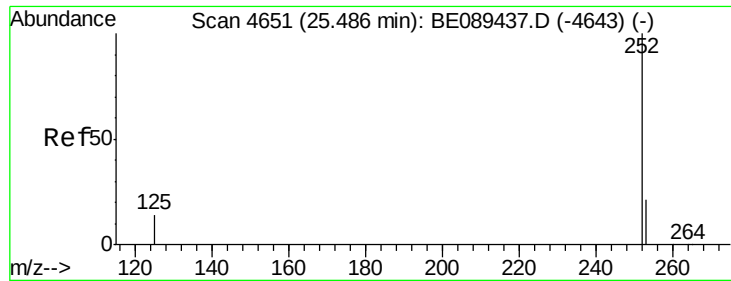
Delta R.T. -0.00 min

Lab File: BE089465.D

Acq: 31 Jan 2015 10:56

Tgt Ion:	252	Resp:	42
Ion	Ratio	Lower	Upper
252	100		
253	69.9	17.4	26.2#
125	96.5	10.9	16.3#





#25

Benzo(a)pyrene

Concen: 0.12 ng

RT: 25.48 min Scan# 4649

Delta R.T. -0.01 min

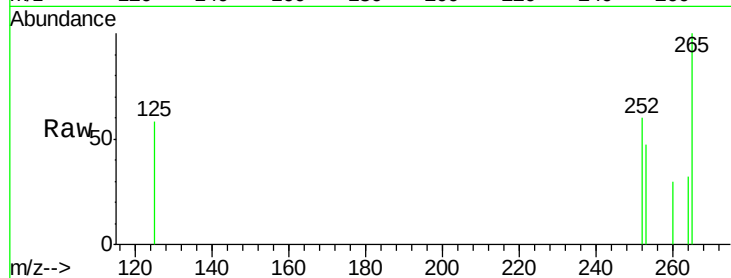
Lab File: BE089465.D

Acq: 31 Jan 2015 10:56

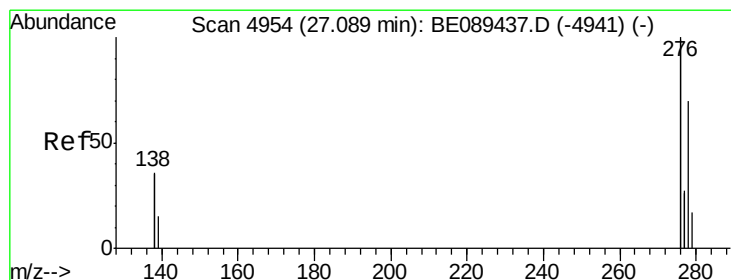
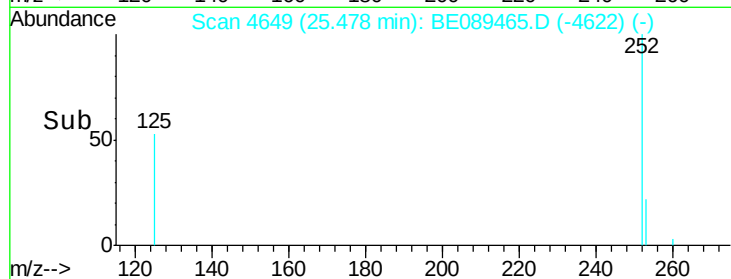
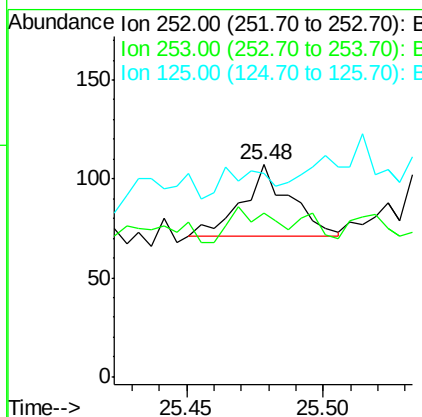
Instrument :

BNA_E

ClientSampleId :



Tgt Ion:	252	Resp:	45
Ion	Ratio	Lower	Upper
252	100		
253	77.6	17.3	25.9#
125	96.3	12.0	18.0#



#26

Dibenzo(a,h)anthracene

Concen: 0.13 ng

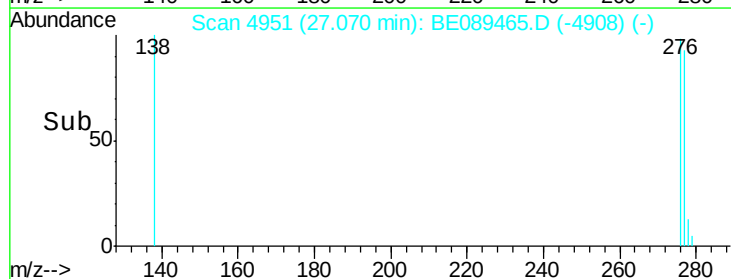
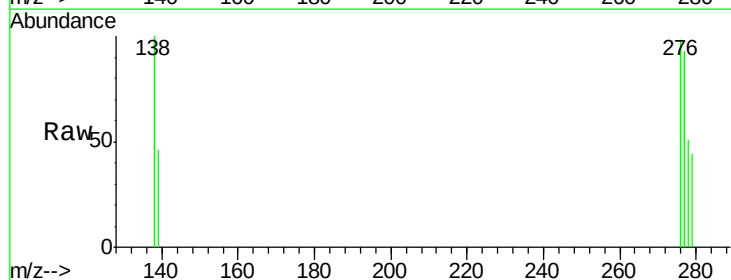
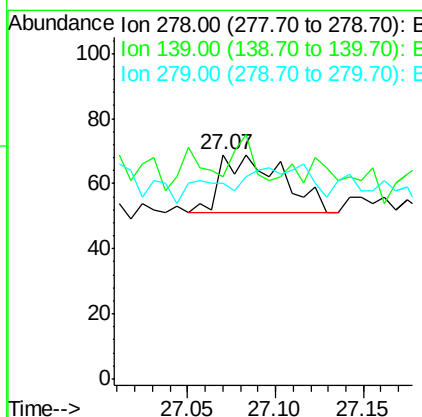
RT: 27.07 min Scan# 4951

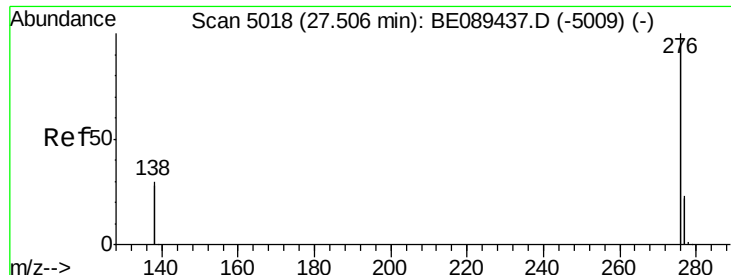
Delta R.T. -0.02 min

Lab File: BE089465.D

Acq: 31 Jan 2015 10:56

Tgt Ion:	278	Resp:	43
Ion	Ratio	Lower	Upper
278	100		
139	89.9	17.0	25.4#
279	87.0	19.1	28.7#





#27

Benzo(g,h,i)perylene

Concen: 0.00 ng

RT: 27.50 min Scan# 5017

Delta R.T. -0.01 min

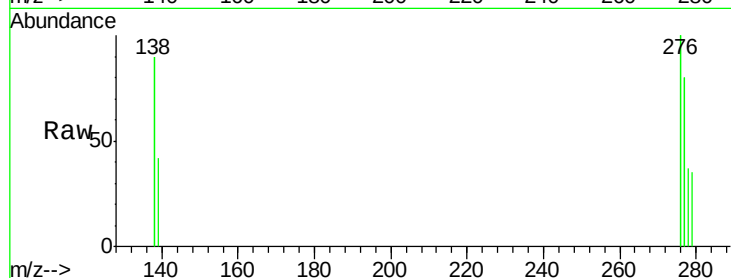
Lab File: BE089465.D

Acq: 31 Jan 2015 10:56

Instrument :

BNA_E

ClientSampleId :



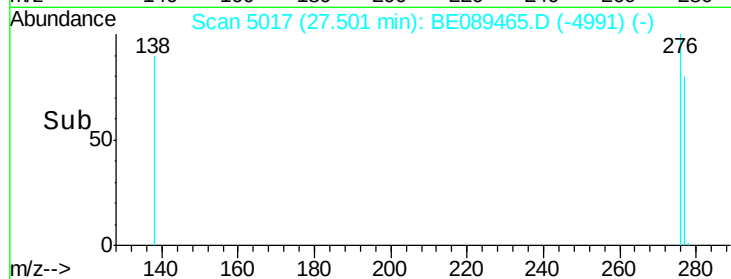
Tgt Ion: 276 Resp: 204

Ion Ratio Lower Upper

276 100

277 79.7 18.4 27.6#

138 90.2 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

