

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE013015\
 Data File : BE089469.D
 Acq On : 31 Jan 2015 13:31
 Operator : TP/IZ
 Sample : MDL-04-S
 Misc : MDL-SOIL-0.1/0.2
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: Feb 02 02:43:25 2015
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIMPAH-BE013015.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Jan 31 05:05:18 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.59	152	58694	5.00	ng	0.00
2) Naphthalene-d8	12.50	136	238503	5.00	ng	0.00
6) Acenaphthene-d10	16.69	164	119525	5.00	ng	-0.01
11) Phenanthrene-d10	19.99	188	190791	5.00	ng	0.00
16) Chrysene-d12	23.84	240	144318	5.00	ng	0.00
22) Perylene-d12	25.55	264	121082	5.00	ng	0.00

System Monitoring Compounds						
3) Nitrobenzene-d5	10.85	82	143805	9.11	ng	0.00
7) 2-Fluorobiphenyl	15.13	172	240189	7.63	ng	0.00
18) Terphenyl-d14	22.48	244	202422	9.37	ng	0.00

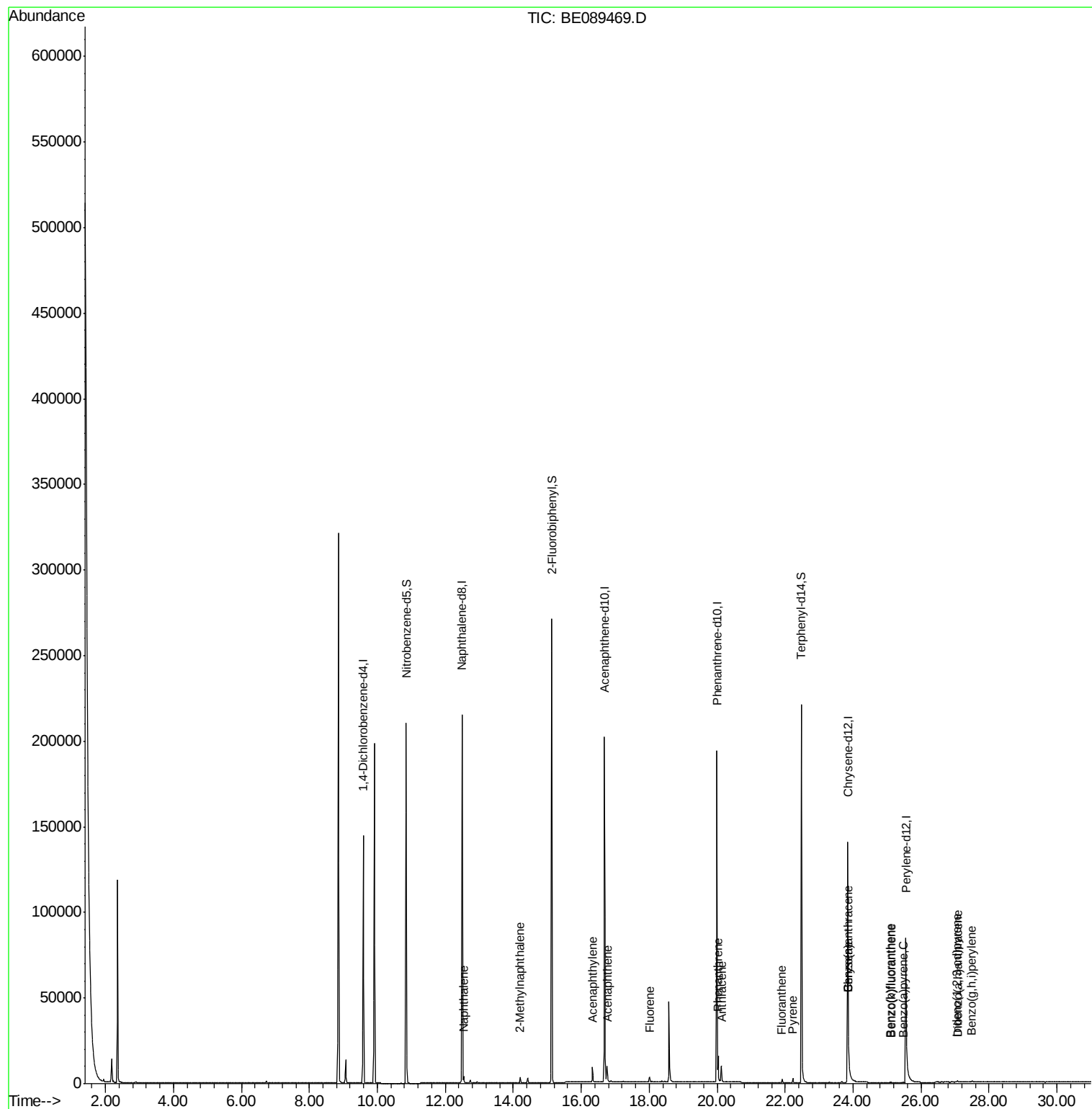
Target Compounds				Qvalue		
4) Naphthalene	12.54	128	3903	0.07	ng	# 95
5) 2-Methylnaphthalene	14.20	142	2173	0.06	ng	# 94
8) Acenaphthylene	16.33	152	11344	0.05	ng	# 98
9) Acenaphthene	16.76	154	1844	0.06	ng	# 84
10) Fluorene	18.01	166	2031	0.06	ng	# 98
12) Pentachlorophenol	19.66	266	122	Below Cal		# 86
13) Phenanthrene	20.03	178	13327	0.07	ng	# 97
14) Anthracene	20.12	178	10008	0.06	ng	# 98
15) Fluoranthene	21.91	202	2154	0.05	ng	# 98
17) Pyrene	22.22	202	2285	0.06	ng	# 99
19) Benzo(a)anthracene	23.87	228	10514	0.09	ng	# 92
20) Chrysene	23.87	228	10514	0.08	ng	# 95
21) Indeno(1,2,3-cd)pyrene	27.06	276	1747	0.01	ng	# 90
23) Benzo(b)fluoranthene	25.10	252	396	0.20	ng	# 55
24) Benzo(k)fluoranthene	25.12	252	634	0.02	ng	# 66
25) Benzo(a)pyrene	25.48	252	431	0.14	ng	# 49
26) Dibenzo(a,h)anthracene	27.08	278	270	0.14	ng	# 30
27) Benzo(g,h,i)perylene	27.50	276	1941	0.02	ng	# 64

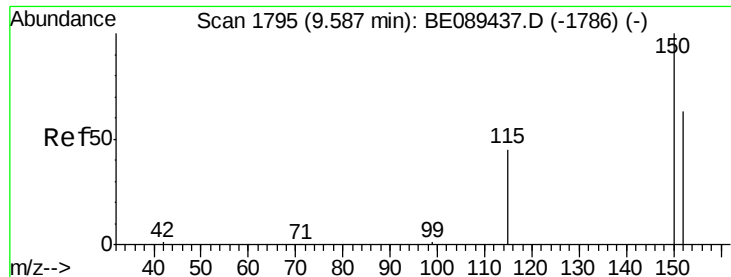
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 9.59 min Scan# 1795

Delta R.T. -0.00 min

Lab File: BE089469.D

Acq: 31 Jan 2015 13:31

Instrument :

BNA_E

ClientSampled :

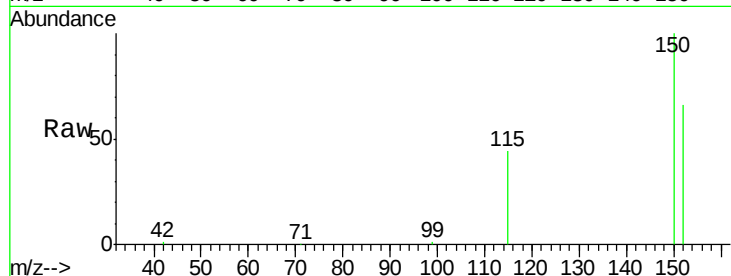
Tgt Ion:152 Resp: 58694

Ion Ratio Lower Upper

152 100

150 152.3 127.2 190.8

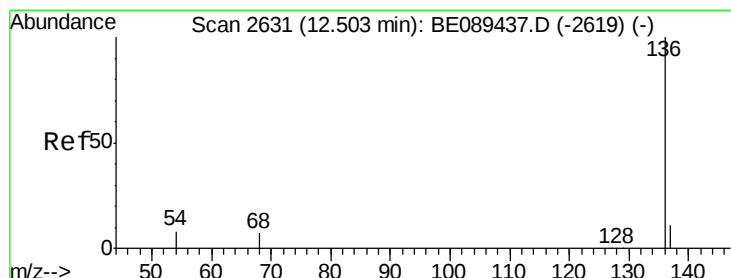
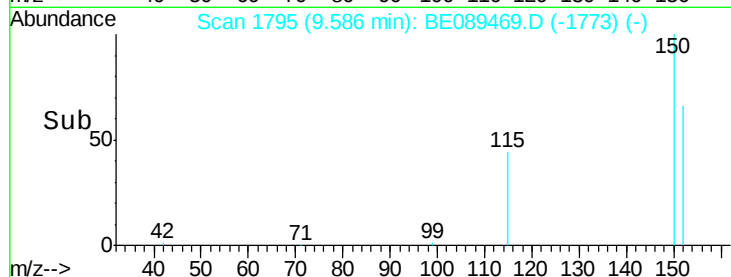
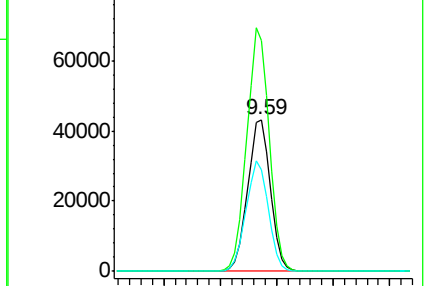
115 67.1 57.5 86.3



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#2

Naphthalene-d8

Concen: 5.00 ng

RT: 12.50 min Scan# 2630

Delta R.T. -0.01 min

Lab File: BE089469.D

Acq: 31 Jan 2015 13:31

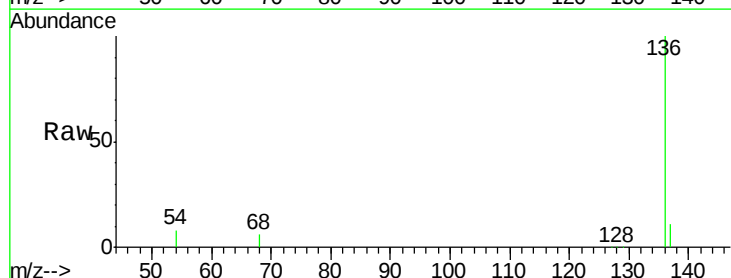
Tgt Ion:136 Resp: 238503

Ion Ratio Lower Upper

136 100

137 10.8 8.7 13.1

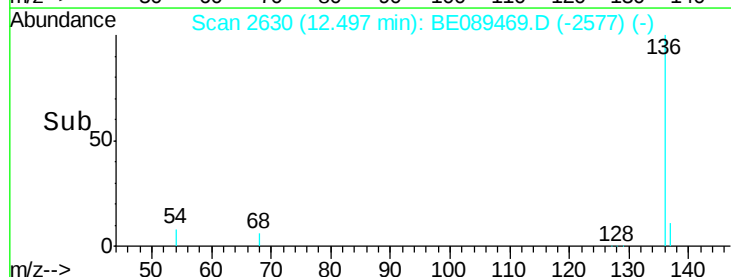
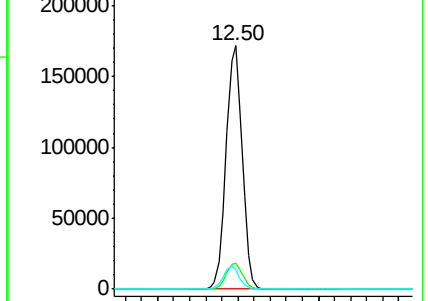
54 7.9 6.6 10.0



Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0





#3

Nitrobenzene-d5

Concen: 9.11 ng

RT: 10.85 min Scan# 2224

Delta R.T. -0.00 min

Lab File: BE089469.D

Acq: 31 Jan 2015 13:31

Instrument :

BNA_E

ClientSampled :

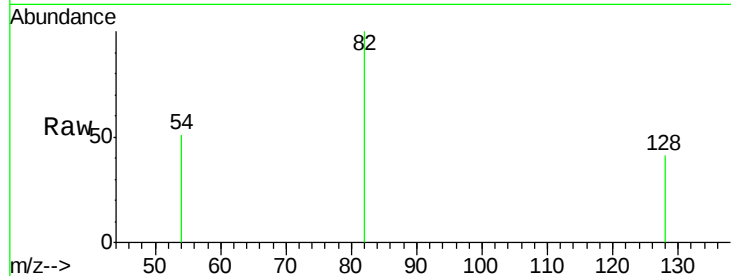
Tgt Ion: 82 Resp: 143805

Ion Ratio Lower Upper

82 100

128 40.6 31.2 46.8

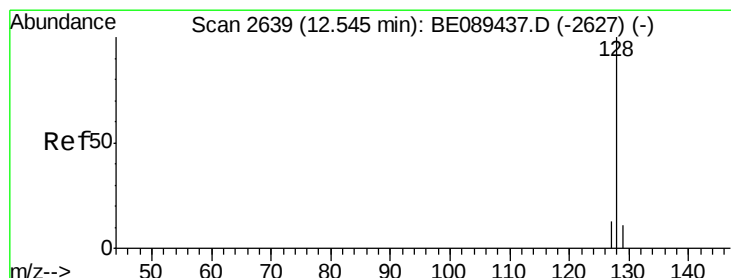
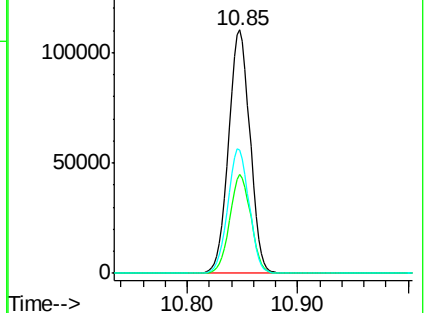
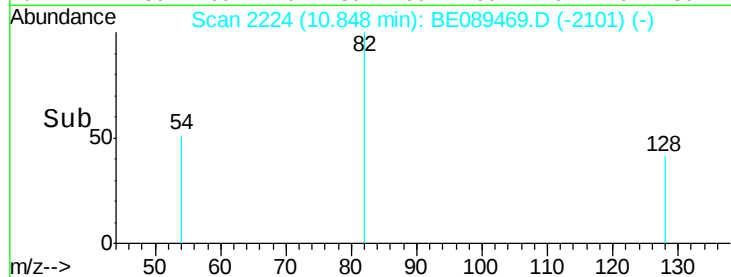
54 50.7 41.9 62.9



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: 0.07 ng

RT: 12.54 min Scan# 2638

Delta R.T. -0.01 min

Lab File: BE089469.D

Acq: 31 Jan 2015 13:31

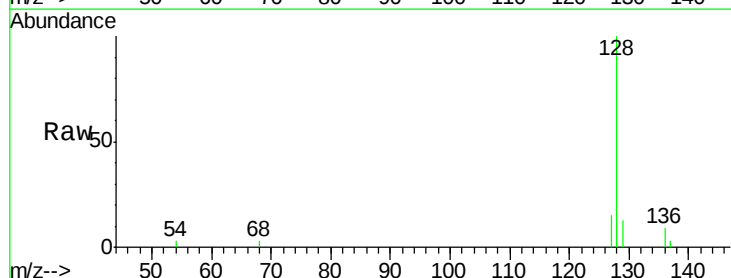
Tgt Ion: 128 Resp: 3903

Ion Ratio Lower Upper

128 100

129 13.3 8.8 13.2#

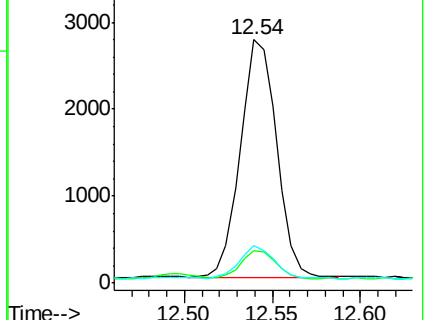
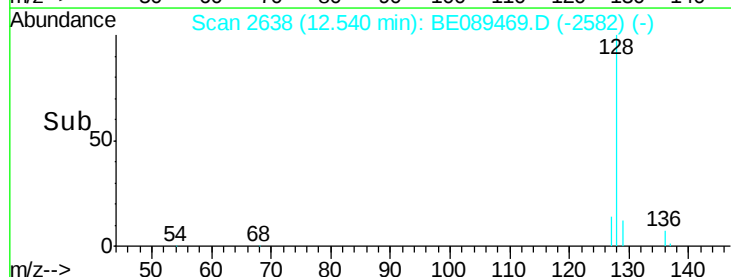
127 15.3 10.6 16.0



Abundance Ion 128.00 (127.70 to 128.70): BE0

Ion 129.00 (128.70 to 129.70): BE0

Ion 127.00 (126.70 to 127.70): BE0





#5

2-Methylnaphthalene

Concen: 0.06 ng

RT: 14.20 min Scan# 2976

Delta R.T. -0.00 min

Lab File: BE089469.D

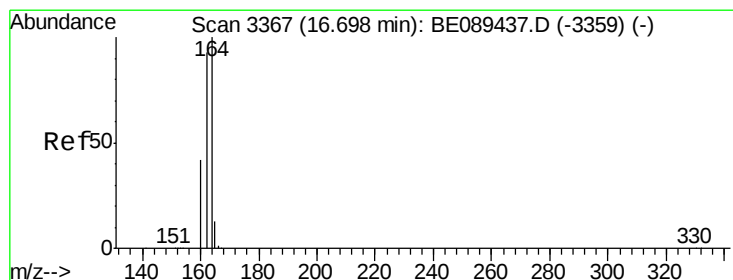
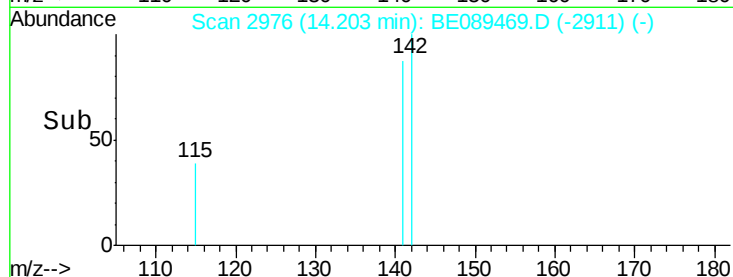
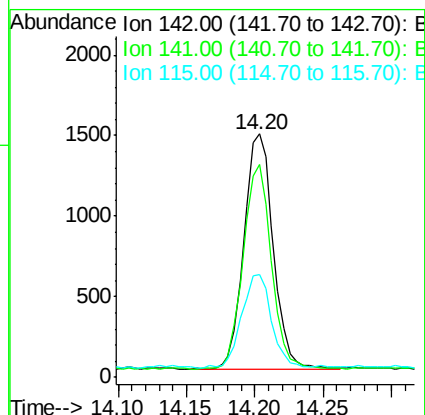
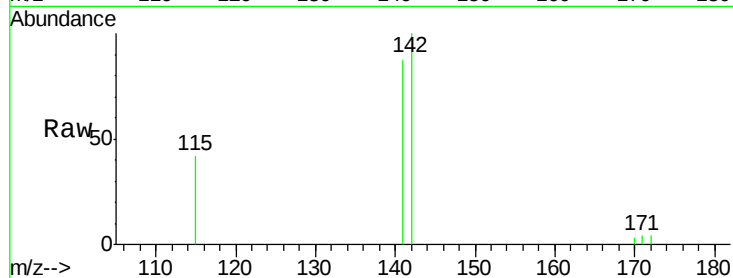
Acq: 31 Jan 2015 13:31

Instrument :

BNA_E

ClientSampleId :

Tgt Ion:	142	Resp:	2173
Ion	Ratio	Lower	Upper
142	100		
141	87.3	66.1	99.1
115	42.3	29.9	44.9



#6

Acenaphthene-d10

Concen: 5.00 ng

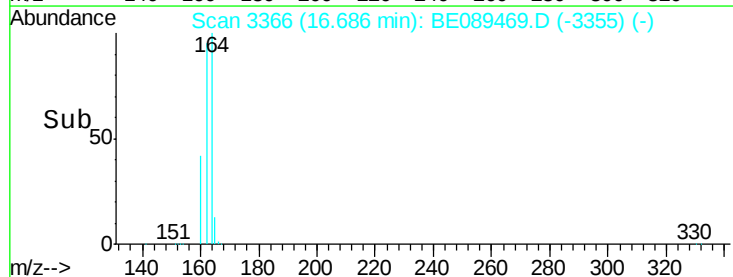
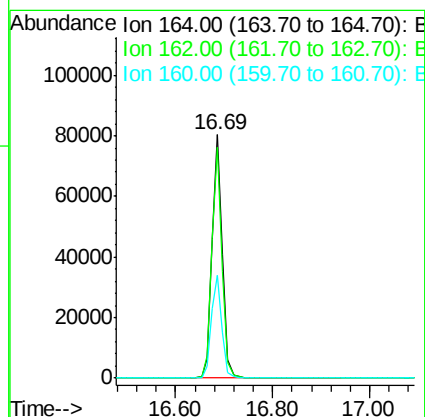
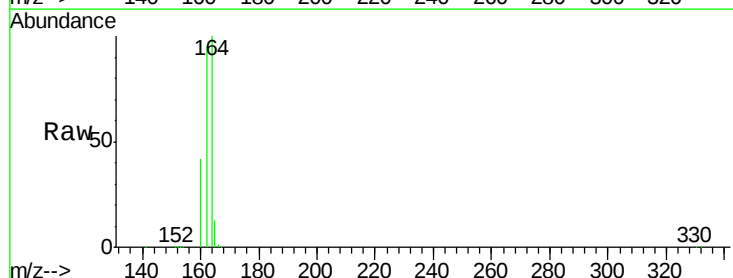
RT: 16.69 min Scan# 3366

Delta R.T. -0.01 min

Lab File: BE089469.D

Acq: 31 Jan 2015 13:31

Tgt Ion:	164	Resp:	119525
Ion	Ratio	Lower	Upper
164	100		
162	94.6	74.7	112.1
160	42.2	33.4	50.0





#7

2-Fluorobiphenyl

Concen: 7.63 ng

RT: 15.13 min Scan# 3180

Delta R.T. -0.00 min

Lab File: BE089469.D

Acq: 31 Jan 2015 13:31

Instrument :

BNA_E

ClientSampleId :

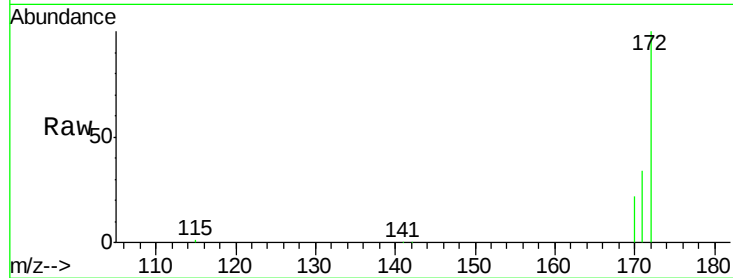
Tgt Ion:172 Resp: 240189

Ion Ratio Lower Upper

172 100

171 33.7 26.2 39.4

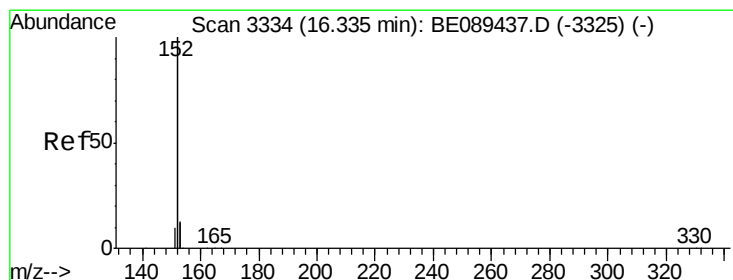
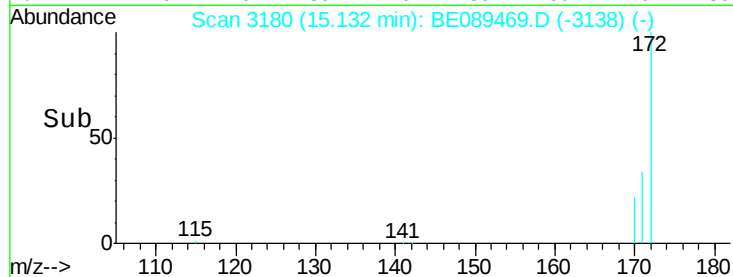
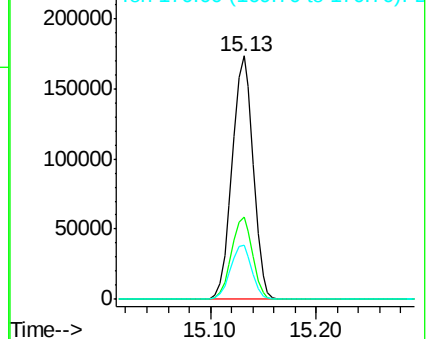
170 22.2 16.5 24.7



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: 0.05 ng

RT: 16.33 min Scan# 3334

Delta R.T. -0.00 min

Lab File: BE089469.D

Acq: 31 Jan 2015 13:31

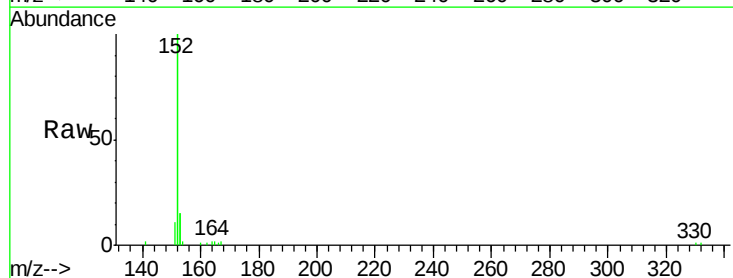
Tgt Ion:152 Resp: 11344

Ion Ratio Lower Upper

152 100

151 5.0 3.9 5.9

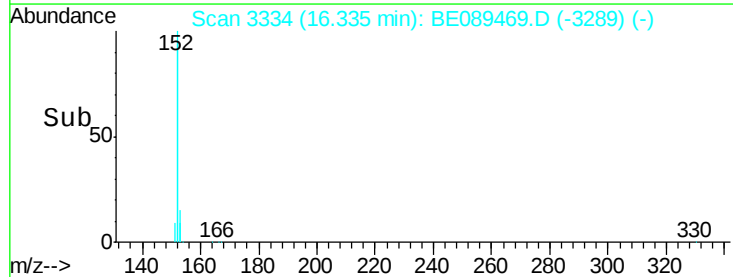
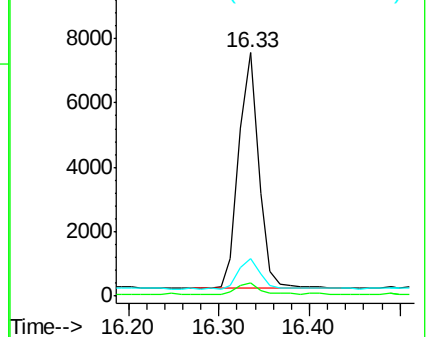
153 14.1 10.3 15.5



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: 0.06 ng

RT: 16.76 min Scan# 3373

Delta R.T. -0.00 min

Lab File: BE089469.D

Acq: 31 Jan 2015 13:31

Instrument :

BNA_E

ClientSampleId :

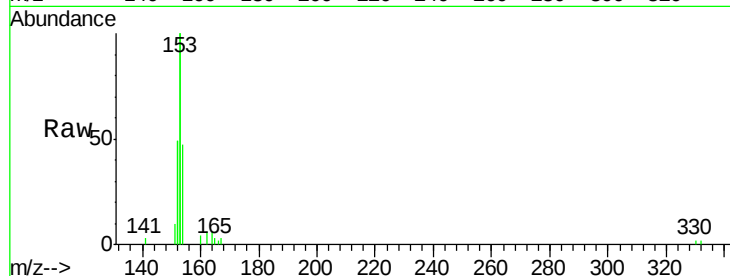
Tgt Ion:154 Resp: 1844

Ion Ratio Lower Upper

154 100

153 450.4 342.3 513.5

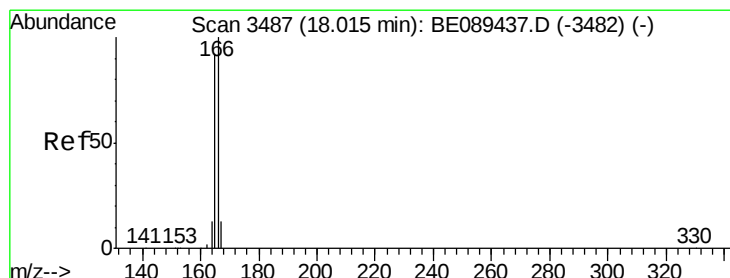
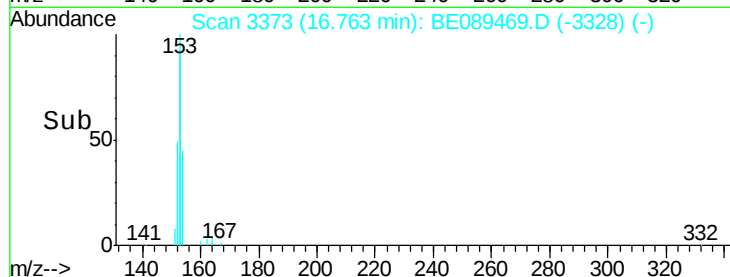
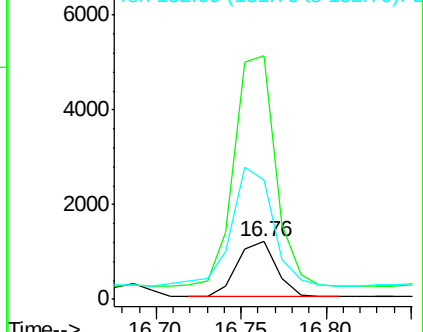
152 252.5 165.5 248.3#



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: 0.06 ng

RT: 18.01 min Scan# 3487

Delta R.T. -0.00 min

Lab File: BE089469.D

Acq: 31 Jan 2015 13:31

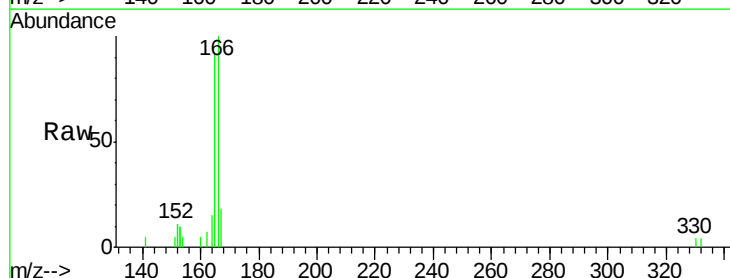
Tgt Ion:166 Resp: 2031

Ion Ratio Lower Upper

166 100

165 93.8 74.4 111.6

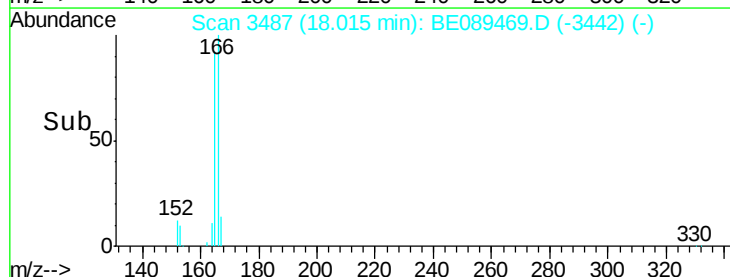
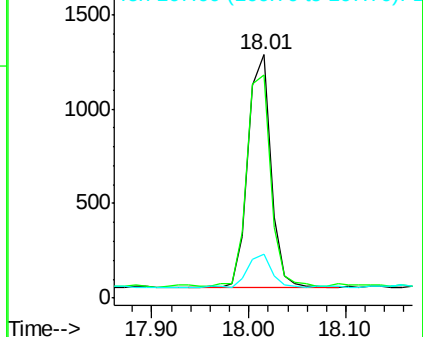
167 16.3 10.6 15.8#



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

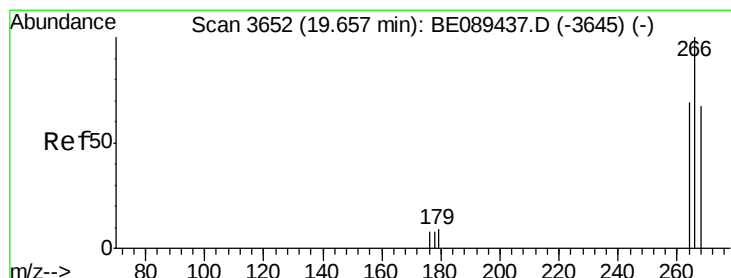
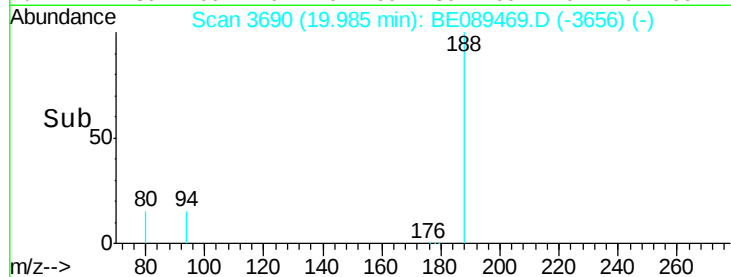
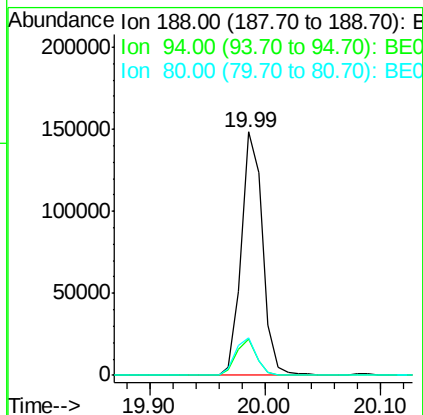
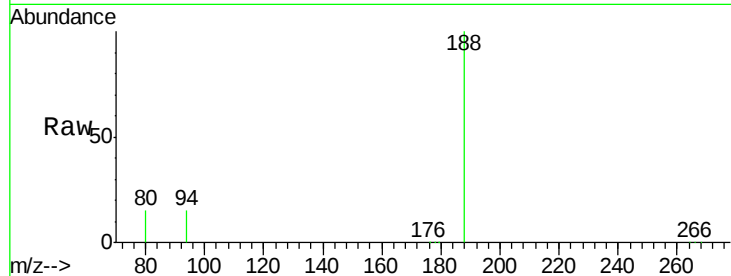




#11
Phenanthrene-d10
Concen: 5.00 ng
RT: 19.99 min Scan# 3690
Delta R.T. -0.01 min
Lab File: BE089469.D
Acq: 31 Jan 2015 13:31

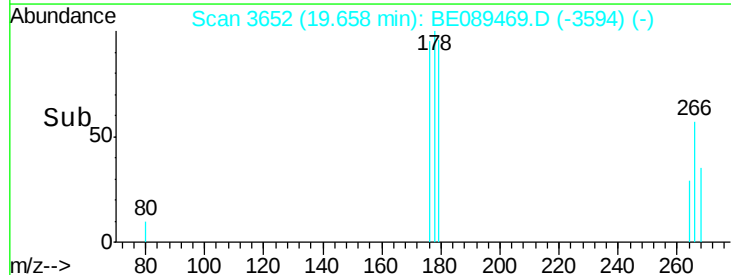
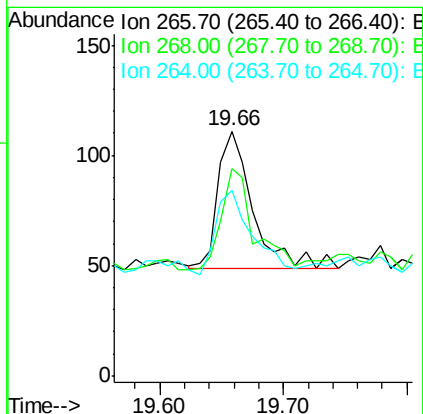
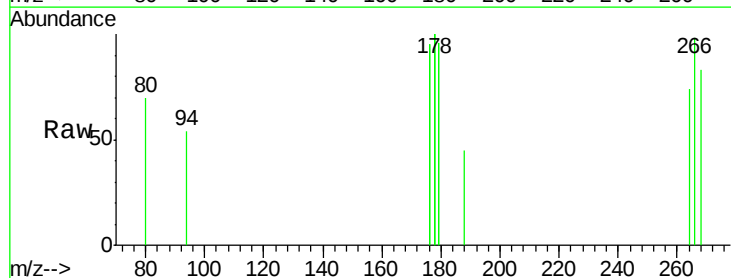
Instrument :
BNA_E
ClientSampleId :

Tgt Ion:188 Resp: 190791
Ion Ratio Lower Upper
188 100
94 14.8 9.4 14.0#
80 15.4 9.3 13.9#



#12
Pentachlorophenol
Concen: Below Cal
RT: 19.66 min Scan# 3652
Delta R.T. 0.00 min
Lab File: BE089469.D
Acq: 31 Jan 2015 13:31

Tgt Ion:266 Resp: 122
Ion Ratio Lower Upper
266 100
268 84.7 54.2 81.4#
264 75.7 56.2 84.2





#13

Phenanthrene

Concen: 0.07 ng

RT: 20.03 min Scan# 3695

Delta R.T. 0.00 min

Lab File: BE089469.D

Acq: 31 Jan 2015 13:31

Instrument :

BNA_E

ClientSampleId :

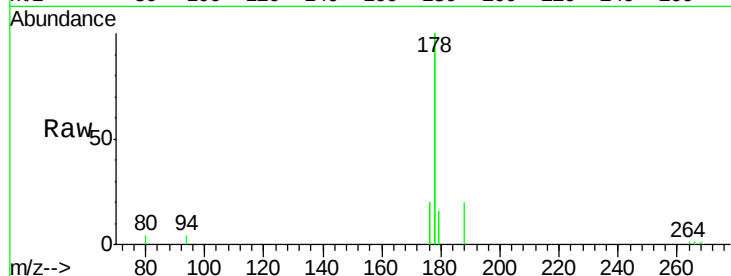
Tgt Ion:178 Resp: 13327

Ion Ratio Lower Upper

178 100

176 18.5 15.1 22.7

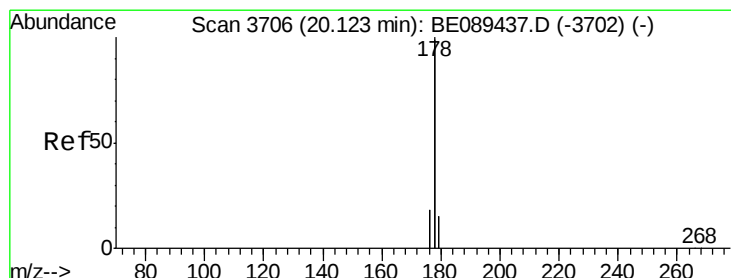
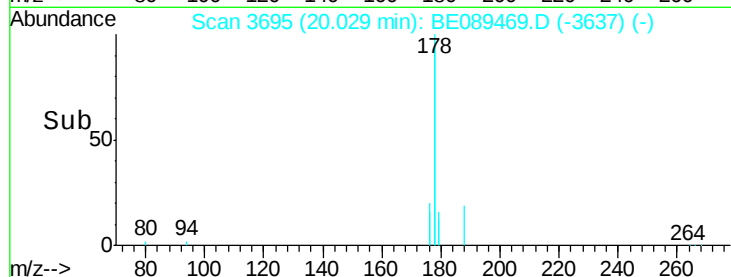
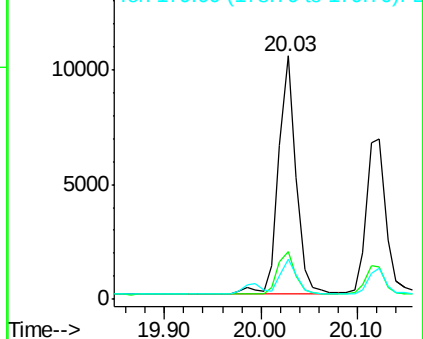
179 13.4 12.3 18.5



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: 0.06 ng

RT: 20.12 min Scan# 3706

Delta R.T. 0.00 min

Lab File: BE089469.D

Acq: 31 Jan 2015 13:31

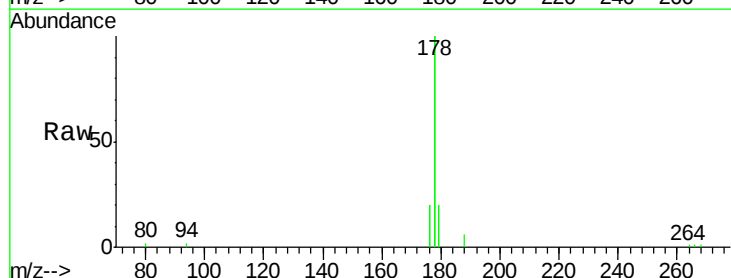
Tgt Ion:178 Resp: 10008

Ion Ratio Lower Upper

178 100

176 17.4 14.6 22.0

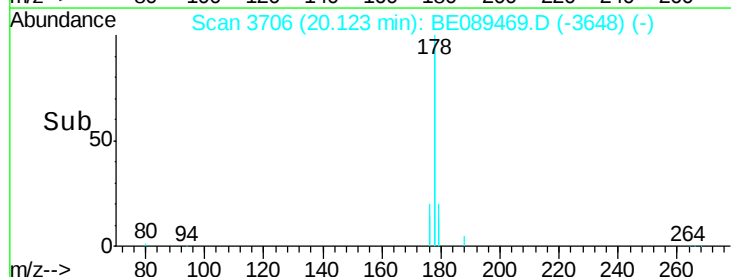
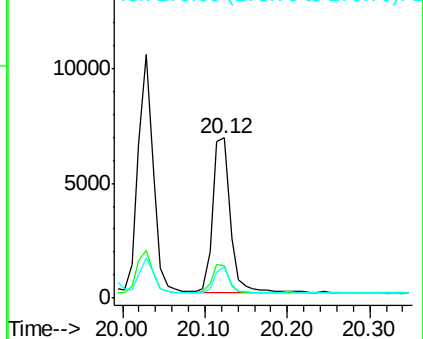
179 14.4 12.2 18.2

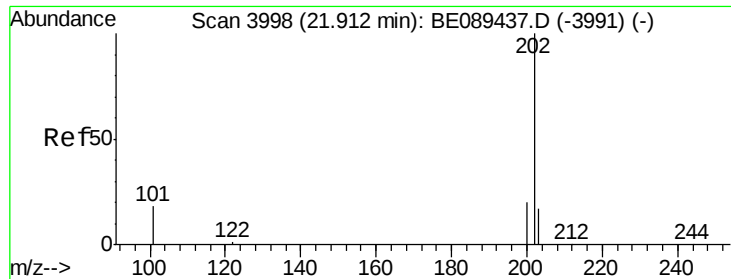


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

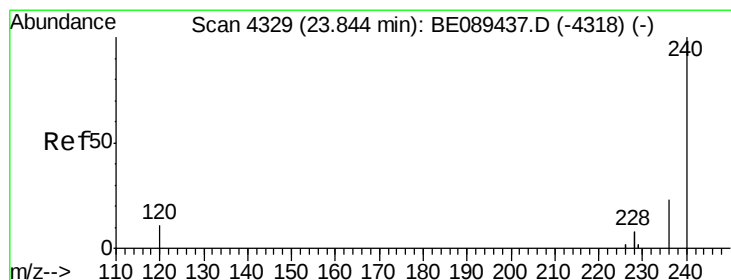
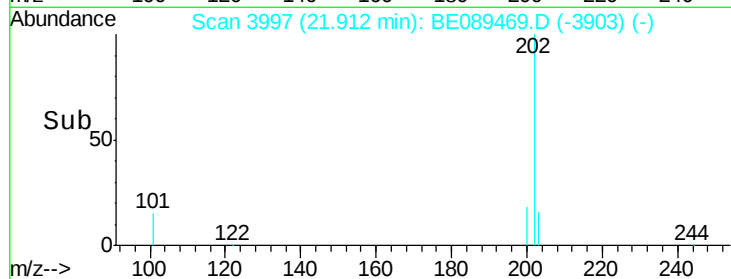
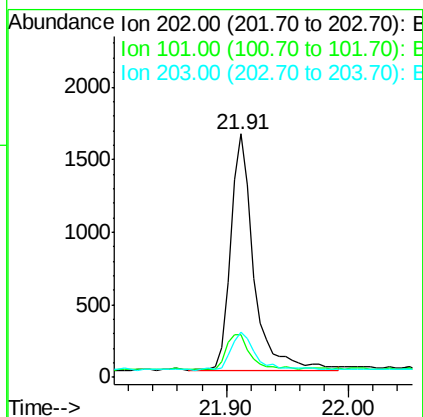
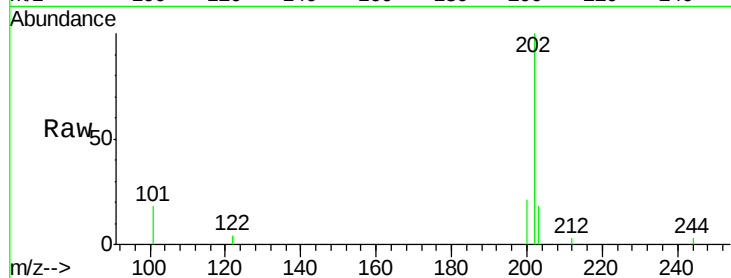




#15
 Fluoranthene
 Concen: 0.05 ng
 RT: 21.91 min Scan# 3997
 Delta R.T. -0.00 min
 Lab File: BE089469.D
 Acq: 31 Jan 2015 13:31

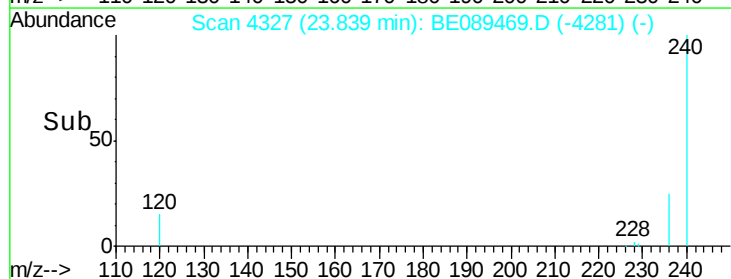
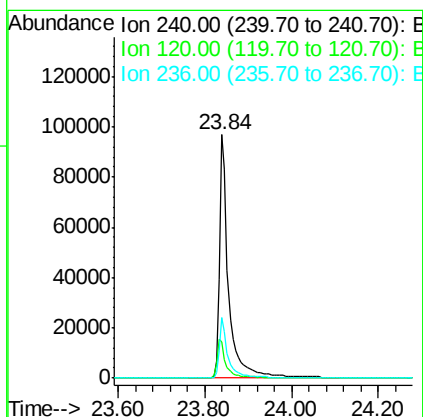
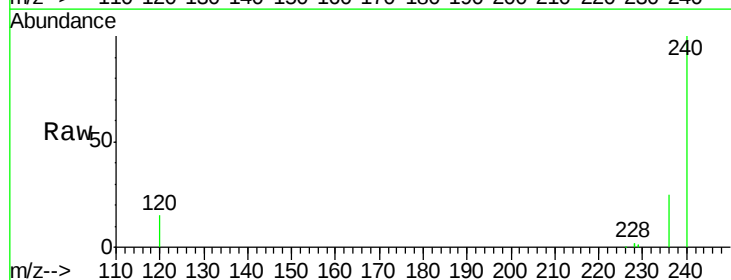
Instrument :
 BNA_E
 ClientSampleId :

Tgt Ion: 202 Resp: 2154
 Ion Ratio Lower Upper
 202 100
 101 15.8 13.6 20.4
 203 17.5 13.8 20.6



#16
 Chrysene-d12
 Concen: 5.00 ng
 RT: 23.84 min Scan# 4327
 Delta R.T. -0.01 min
 Lab File: BE089469.D
 Acq: 31 Jan 2015 13:31

Tgt Ion: 240 Resp: 144318
 Ion Ratio Lower Upper
 240 100
 120 15.1 8.6 13.0#
 236 24.8 18.7 28.1

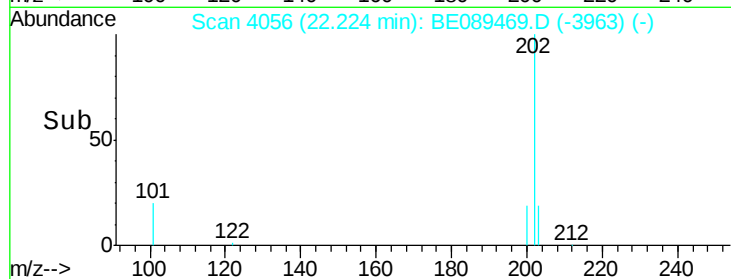
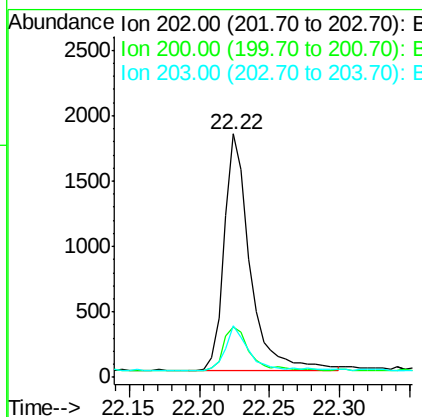
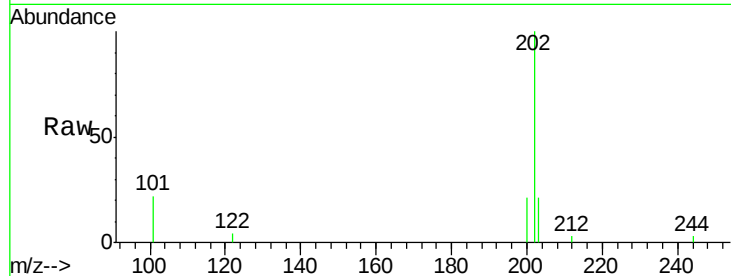




#17
 Pyrene
 Concen: 0.06 ng
 RT: 22.22 min Scan# 4056
 Delta R.T. -0.01 min
 Lab File: BE089469.D
 Acq: 31 Jan 2015 13:31

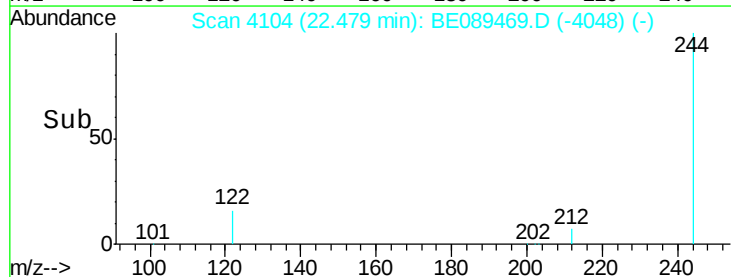
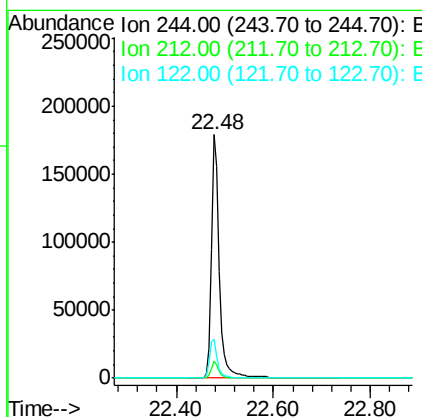
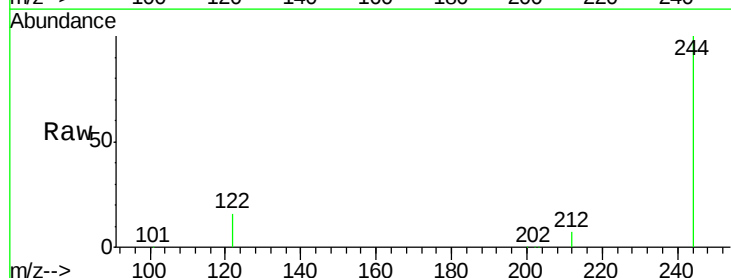
Instrument :
 BNA_E
 ClientSampled :

Tgt Ion: 202 Resp: 2285
 Ion Ratio Lower Upper
 202 100
 200 19.9 16.2 24.4
 203 16.9 13.8 20.8



#18
 Terphenyl-d14
 Concen: 9.37 ng
 RT: 22.48 min Scan# 4104
 Delta R.T. -0.01 min
 Lab File: BE089469.D
 Acq: 31 Jan 2015 13:31

Tgt Ion: 244 Resp: 202422
 Ion Ratio Lower Upper
 244 100
 212 6.8 5.0 7.6
 122 16.2 10.2 15.4#





#19

Benzo(a)anthracene

Concen: 0.09 ng

RT: 23.87 min Scan# 4332

Delta R.T. 0.04 min

Lab File: BE089469.D

Acq: 31 Jan 2015 13:31

Instrument :

BNA_E

ClientSampleId :

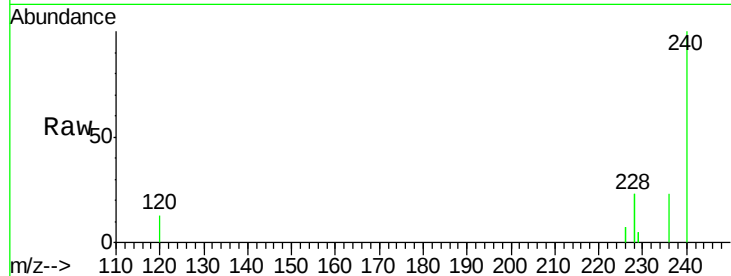
Tgt Ion:228 Resp: 10514

Ion Ratio Lower Upper

228 100

226 29.9 20.0 30.0

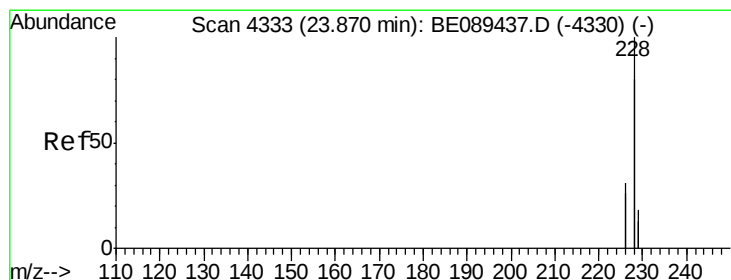
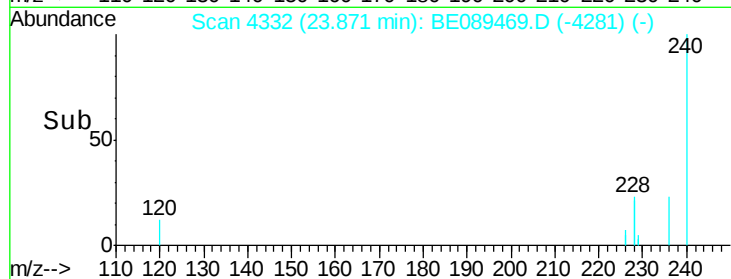
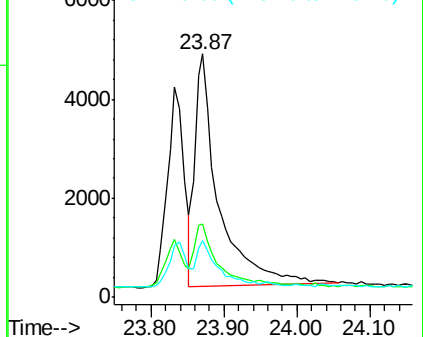
229 23.1 16.0 24.0



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: 0.08 ng

RT: 23.87 min Scan# 4332

Delta R.T. 0.00 min

Lab File: BE089469.D

Acq: 31 Jan 2015 13:31

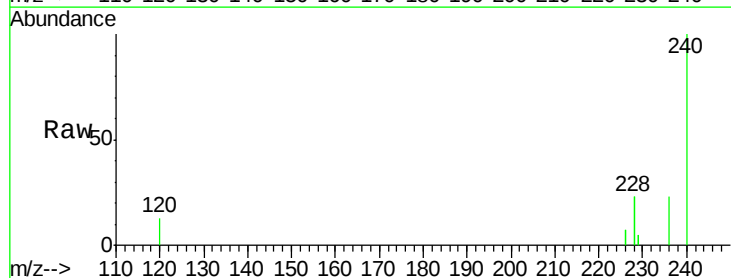
Tgt Ion:228 Resp: 10514

Ion Ratio Lower Upper

228 100

226 29.9 24.5 36.7

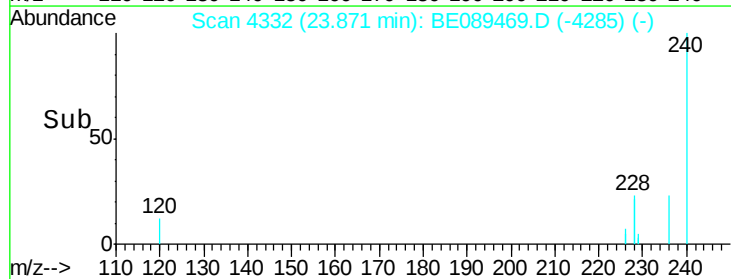
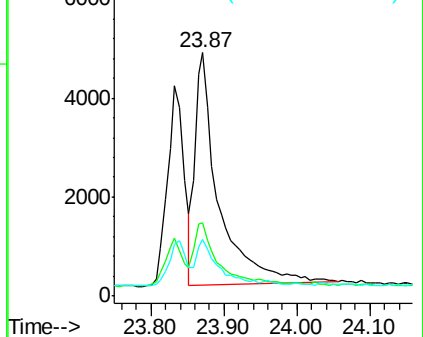
229 23.1 14.1 21.1#



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: 0.01 ng

RT: 27.06 min Scan# 4948

Delta R.T. -0.01 min

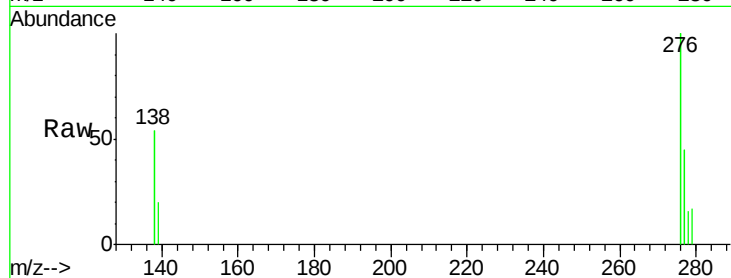
Lab File: BE089469.D

Acq: 31 Jan 2015 13:31

Instrument :

BNA_E

ClientSampled :



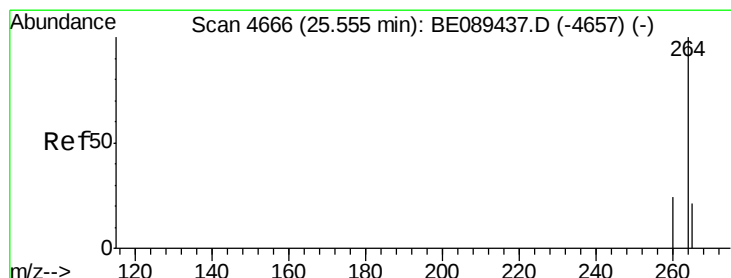
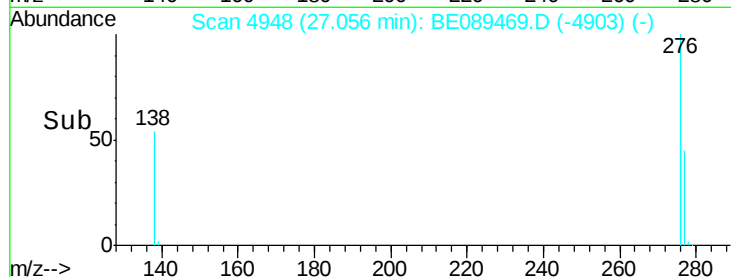
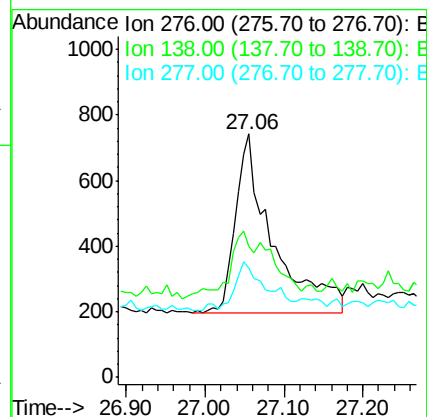
Tgt Ion: 276 Resp: 1747

Ion Ratio Lower Upper

276 100

138 24.9 25.4 38.0#

277 21.4 19.8 29.6



#22

Perylene-d12

Concen: 5.00 ng

RT: 25.55 min Scan# 4664

Delta R.T. -0.00 min

Lab File: BE089469.D

Acq: 31 Jan 2015 13:31

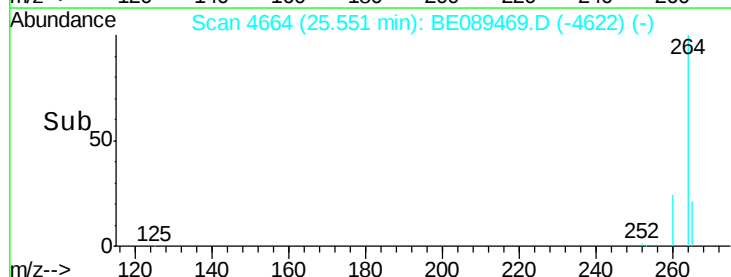
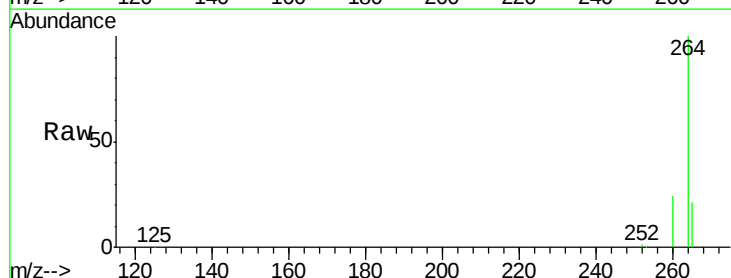
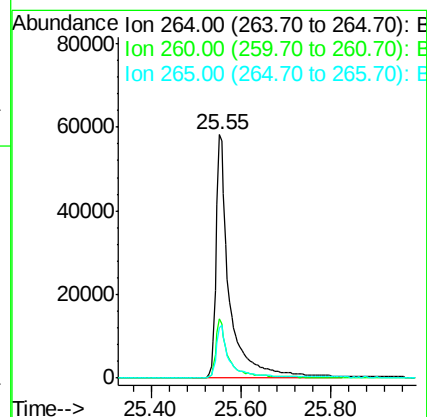
Tgt Ion: 264 Resp: 121082

Ion Ratio Lower Upper

264 100

260 24.3 19.4 29.0

265 20.9 17.0 25.6





#23

Benzo(b)fluoranthene

Concen: 0.20 ng

RT: 25.10 min Scan# 4564

Delta R.T. -0.00 min

Lab File: BE089469.D

Acq: 31 Jan 2015 13:31

Instrument :

BNA_E

ClientSampleId :

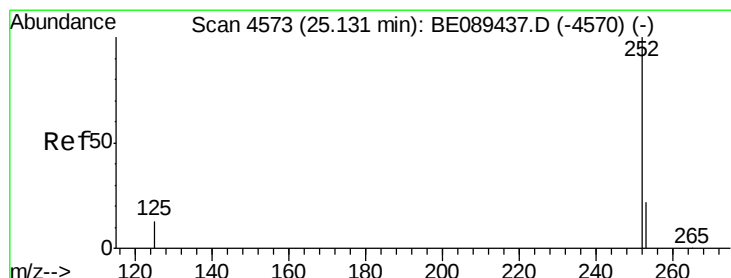
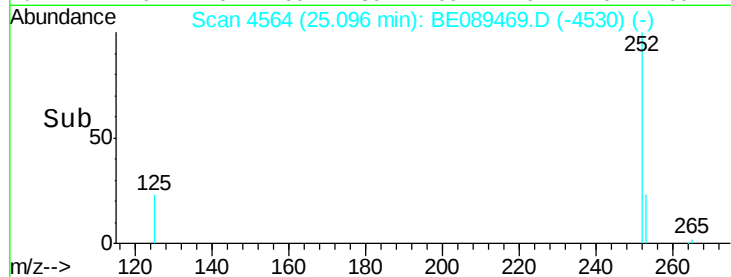
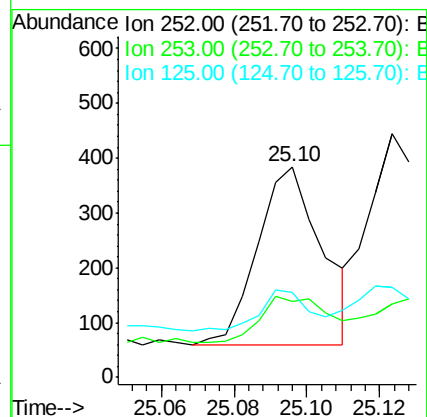
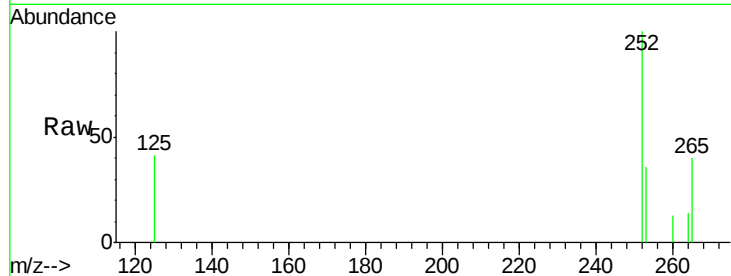
Tgt Ion:252 Resp: 396

Ion Ratio Lower Upper

252 100

253 36.2 17.0 25.6#

125 40.6 11.4 17.0#



#24

Benzo(k)fluoranthene

Concen: 0.02 ng

RT: 25.12 min Scan# 4570

Delta R.T. -0.01 min

Lab File: BE089469.D

Acq: 31 Jan 2015 13:31

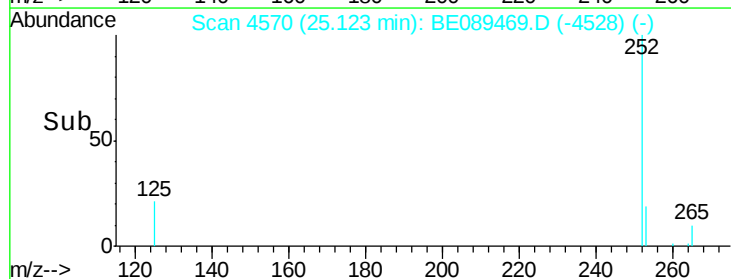
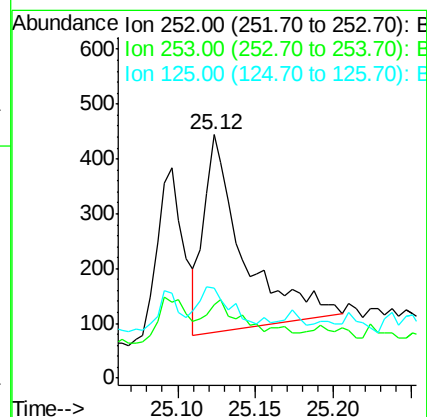
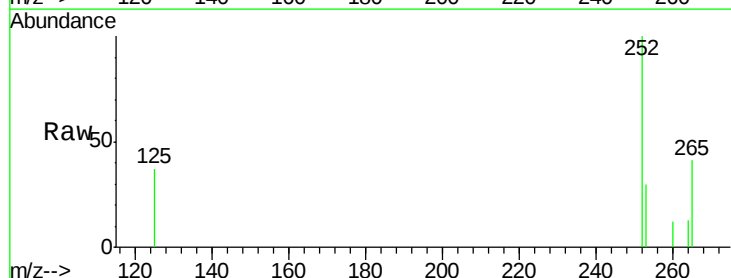
Tgt Ion:252 Resp: 634

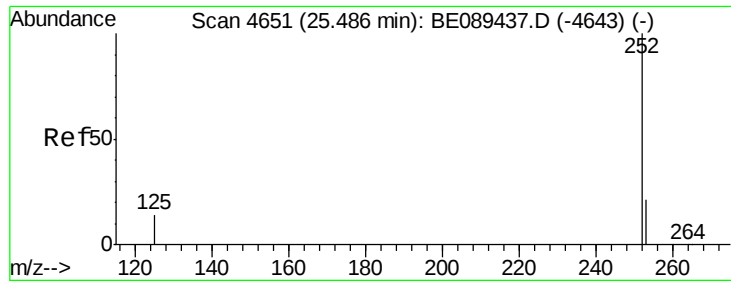
Ion Ratio Lower Upper

252 100

253 30.4 17.4 26.2#

125 37.2 10.9 16.3#

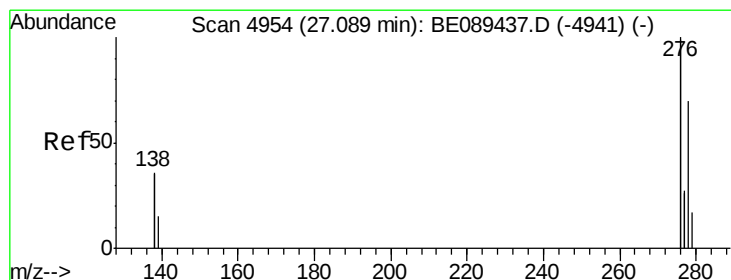
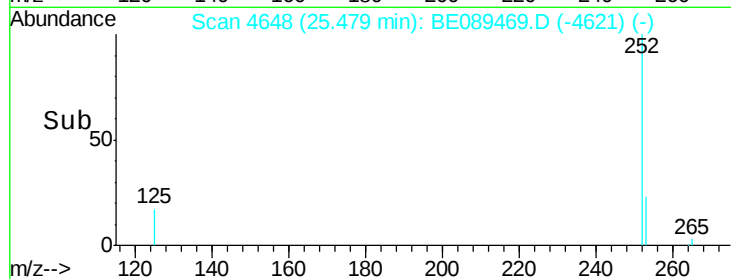
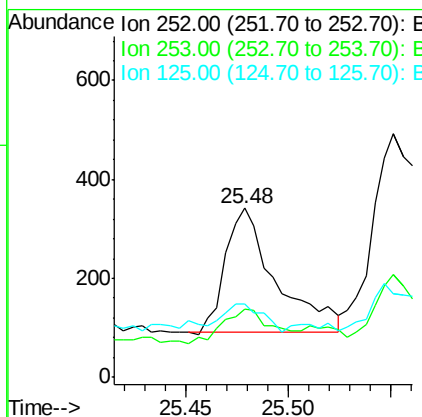
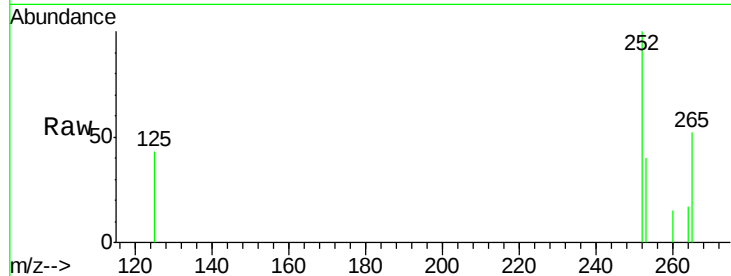




#25
Benzo(a)pyrene
Concen: 0.14 ng
RT: 25.48 min Scan# 4648
Delta R.T. -0.01 min
Lab File: BE089469.D
Acq: 31 Jan 2015 13:31

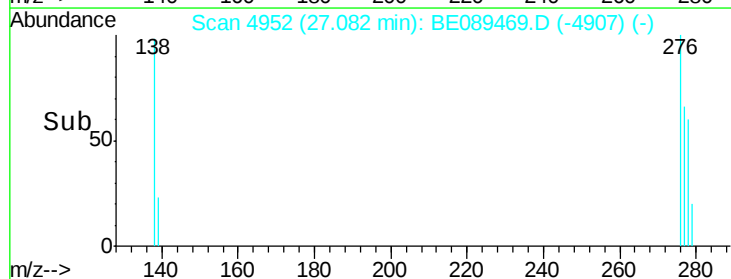
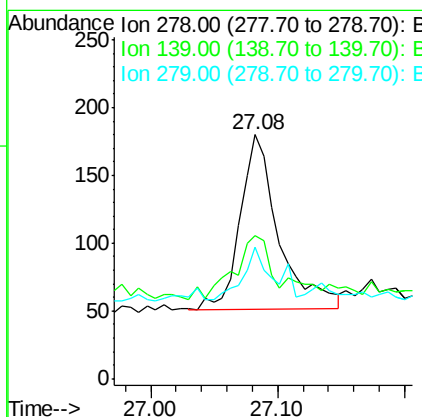
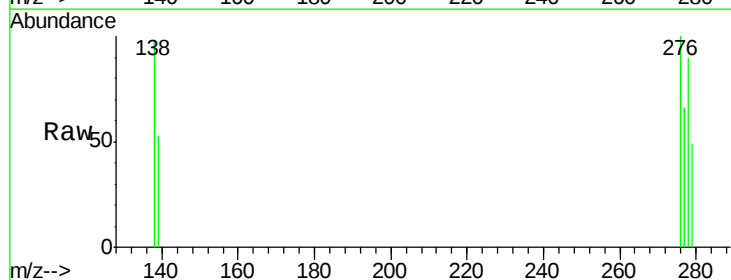
Instrument :
BNA_E
ClientSampleId :

Tgt Ion: 252 Resp: 431
Ion Ratio Lower Upper
252 100
253 40.4 17.3 25.9#
125 43.3 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: BE089469.D
Acq: 31 Jan 2015 13:31

Tgt Ion: 278 Resp: 270
Ion Ratio Lower Upper
278 100
139 58.9 17.0 25.4#
279 53.9 19.1 28.7#

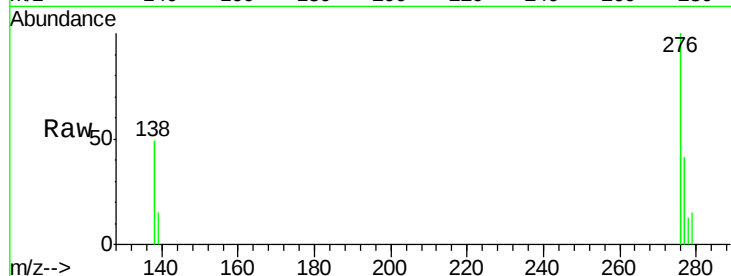




#27
 Benzo(g,h,i)perylene
 Concen: 0.02 ng
 RT: 27.50 min Scan# 5016
 Delta R.T. -0.01 min
 Lab File: BE089469.D
 Acq: 31 Jan 2015 13:31

Instrument :
 BNA_E
 ClientSampleId :

Tgt Ion: 276 Resp: 1941
 Ion Ratio Lower Upper
 276 100
 277 41.2 18.4 27.6#
 138 48.8 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

