

Data Path : Z:\HPCHEM1\BNA_E\Data\BE021815\
 Data File : BE089636.D
 Acq On : 19 Feb 2015 13:58
 Operator : TP/IZ
 Sample : MDL-05-S
 Misc : MDL-SOIL-0.1/0.2
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: Feb 20 01:03:58 2015
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIMPAH-BE021815.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Feb 18 13:01:39 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.34	152	35941	5.00	ng	0.00
4) Naphthalene-d8	12.25	136	142635	5.00	ng	0.00
8) Acenaphthene-d10	16.42	164	72449	5.00	ng	0.00
13) Phenanthrene-d10	19.77	188	143885	5.00	ng	0.00
19) Chrysene-d12	23.66	240	136856	5.00	ng	0.00
25) Perylene-d12	25.34	264	113032	5.00	ng	0.00

System Monitoring Compounds						
5) Nitrobenzene-d5	10.61	82	68350	11.02	ng	0.00
9) 2-Fluorobiphenyl	14.88	172	177033	9.12	ng	0.00
21) Terphenyl-d14	22.31	244	224440	11.41	ng	0.00

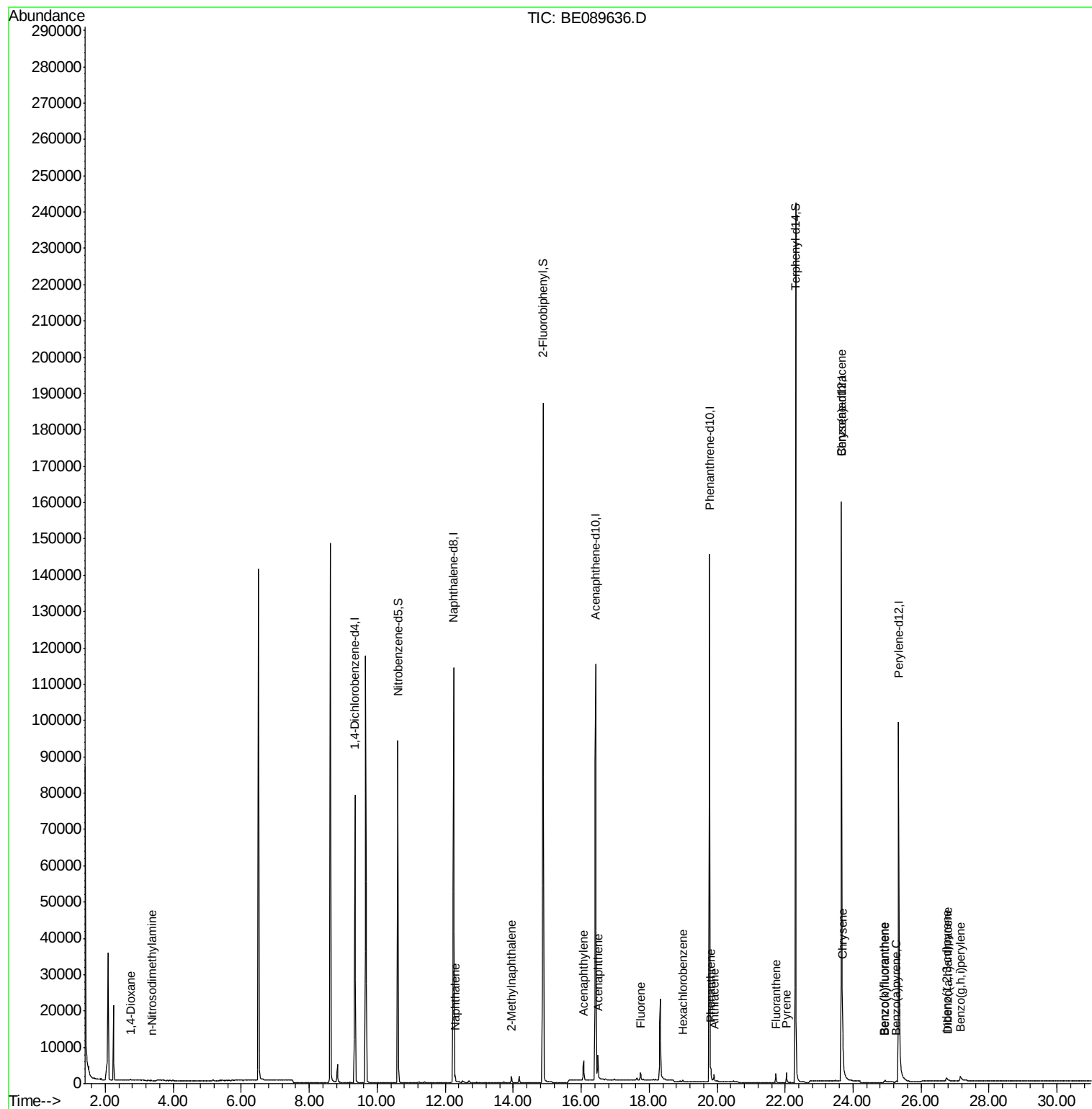
Target Compounds				Qvalue		
2) 1,4-Dioxane	2.74	88	315	0.07	ng	# 83
3) n-Nitrosodimethylamine	3.39	42	5	0.00	ng	# 75
6) Naphthalene	12.29	128	2478	0.08	ng	# 93
7) 2-Methylnaphthalene	13.95	142	1371	0.07	ng	97
10) Acenaphthylene	16.07	152	7357	0.06	ng	100
11) Acenaphthene	16.49	154	1341	0.07	ng	90
12) Fluorene	17.74	166	1598	0.07	ng	97
14) Hexachlorobenzene	19.00	284	496	0.08	ng	97
15) Pentachlorophenol	19.45	266	31	Below Cal	#	69
16) Phenanthrene	19.82	178	2700	0.08	ng	99
17) Anthracene	19.91	178	1898	0.06	ng	99
18) Fluoranthene	21.72	202	2173	0.06	ng	98
20) Pyrene	22.04	202	2278	0.07	ng	99
22) Benzo(a)anthracene	23.65	228	8827	0.07	ng	94
23) Chrysene	23.69	228	12066	0.09	ng	96
24) Indeno(1,2,3-cd)pyrene	26.74	276	2536	0.20	ng	95
26) Benzo(b)fluoranthene	24.91	252	575	0.29	ng	# 77
27) Benzo(k)fluoranthene	24.94	252	1122	0.03	ng	# 83
28) Benzo(a)pyrene	25.27	252	615	0.26	ng	# 75
29) Dibenzo(a,h)anthracene	26.77	278	439	0.25	ng	# 56
30) Benzo(g,h,i)perylene	27.16	276	3325	0.17	ng	# 69

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

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 9.34 min Scan# 1300

Delta R.T. -0.00 min

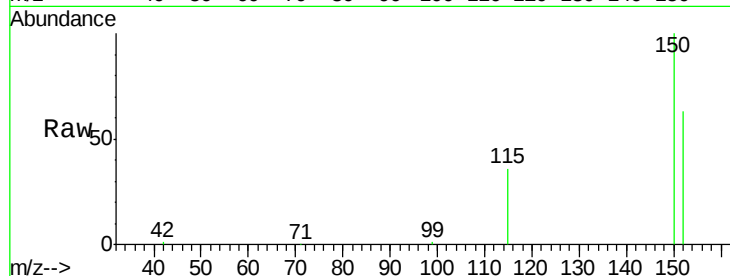
Lab File: BE089636.D

Acq: 19 Feb 2015 13:58

Instrument :

BNA_E

ClientSampleId :



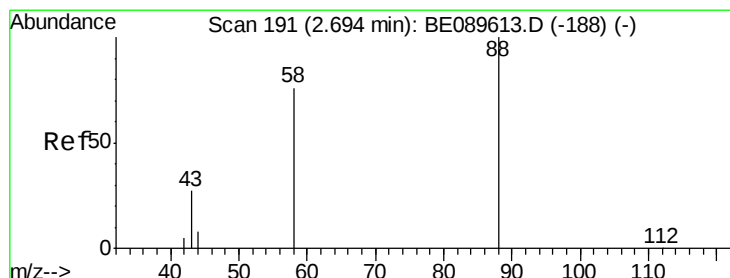
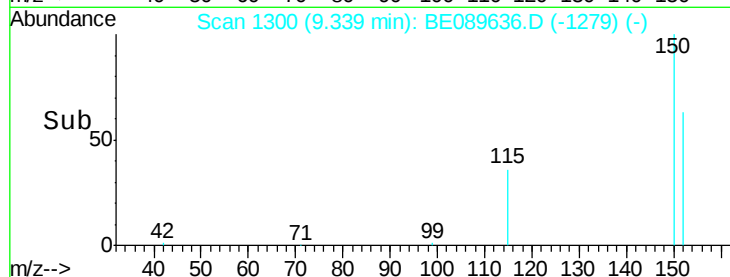
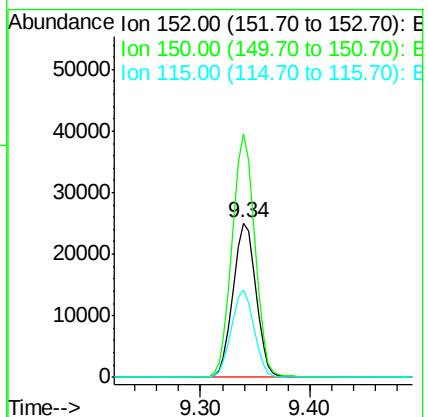
Tgt Ion: 152 Resp: 35941

Ion Ratio Lower Upper

152 100

150 157.7 122.4 183.6

115 56.9 44.2 66.2



#2

1,4-Dioxane

Concen: 0.07 ng

RT: 2.74 min Scan# 198

Delta R.T. 0.05 min

Lab File: BE089636.D

Acq: 19 Feb 2015 13:58

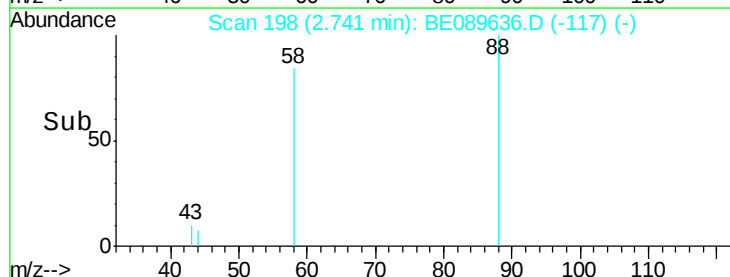
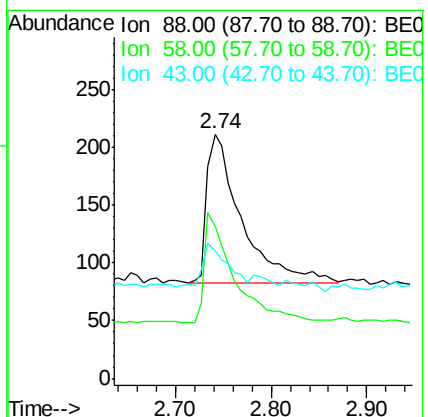
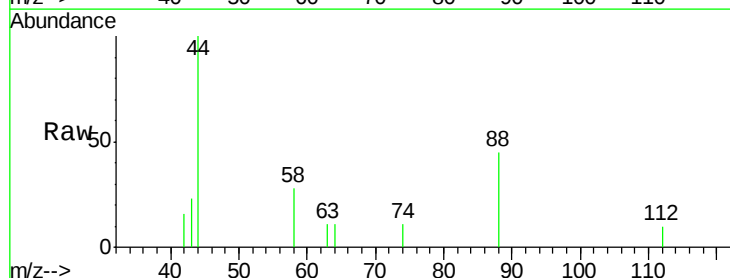
Tgt Ion: 88 Resp: 315

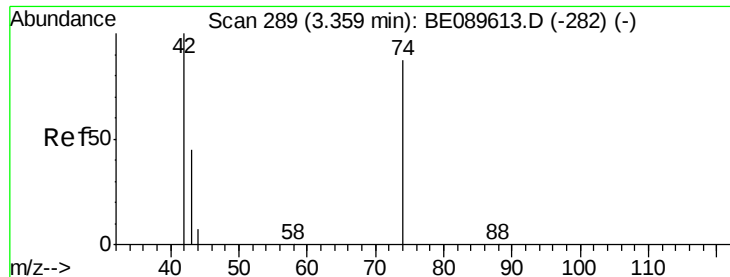
Ion Ratio Lower Upper

88 100

58 65.1 54.6 81.8

43 0.0 20.6 30.8#



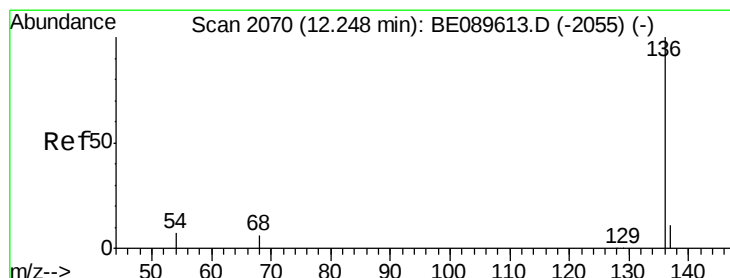
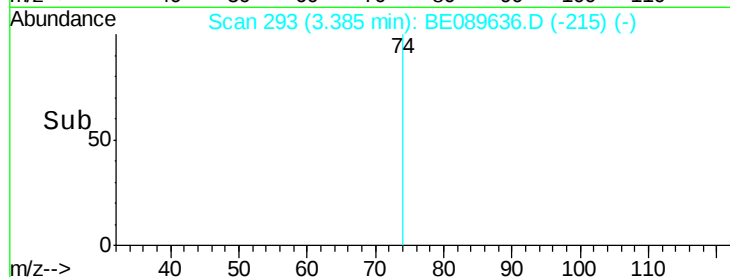
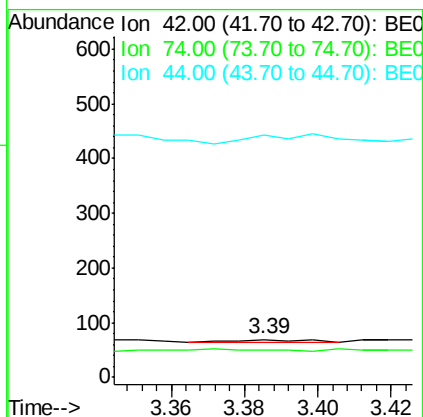
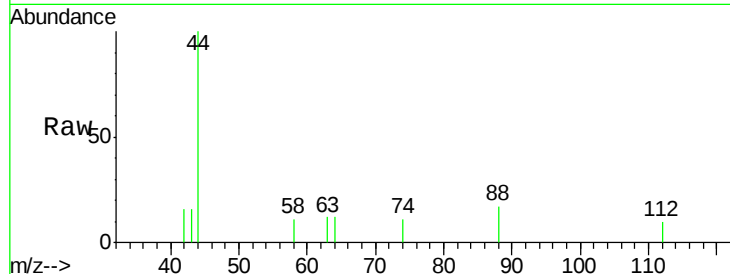


#3

n-Nitrosodimethylamine
 Concen: 0.00 ng
 RT: 3.39 min Scan# 293
 Delta R.T. 0.03 min
 Lab File: BE089636.D
 Acq: 19 Feb 2015 13:58

Instrument :
 BNA_E
 ClientSampleId :

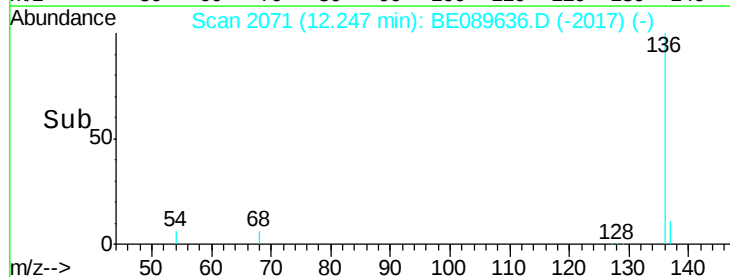
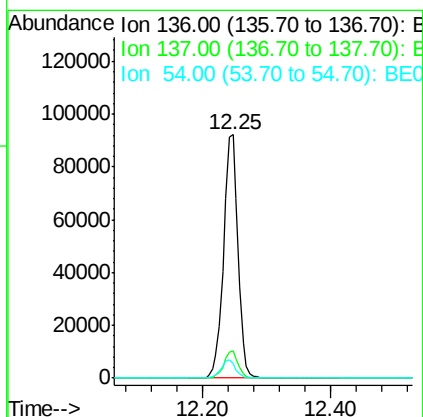
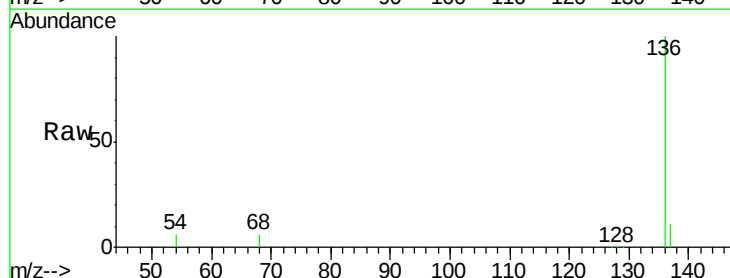
Tgt Ion: 42 Resp: 5
 Ion Ratio Lower Upper
 42 100
 74 120.0 121.4 182.0#
 44 0.0 4.5 6.7#

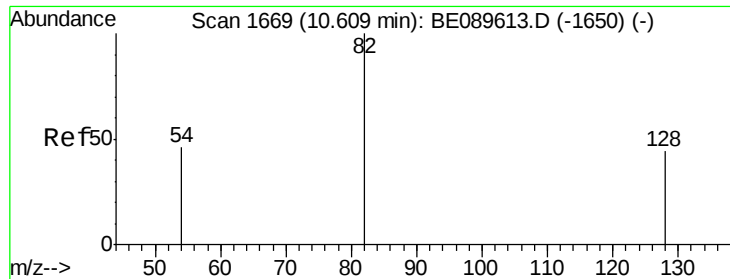


#4

Naphthalene-d8
 Concen: 5.00 ng
 RT: 12.25 min Scan# 2071
 Delta R.T. -0.00 min
 Lab File: BE089636.D
 Acq: 19 Feb 2015 13:58

Tgt Ion: 136 Resp: 142635
 Ion Ratio Lower Upper
 136 100
 137 11.0 8.9 13.3
 54 6.2 5.3 7.9





#5

Nitrobenzene-d5

Concen: 11.02 ng

RT: 10.61 min Scan# 1669

Delta R.T. -0.00 min

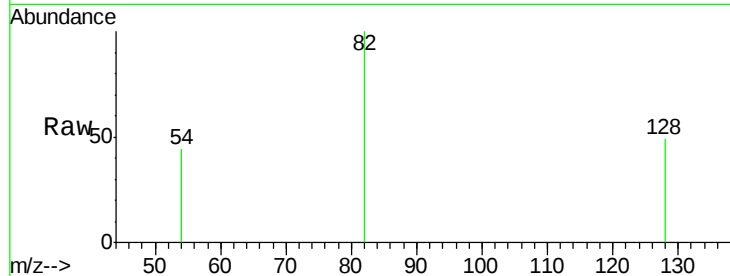
Lab File: BE089636.D

Acq: 19 Feb 2015 13:58

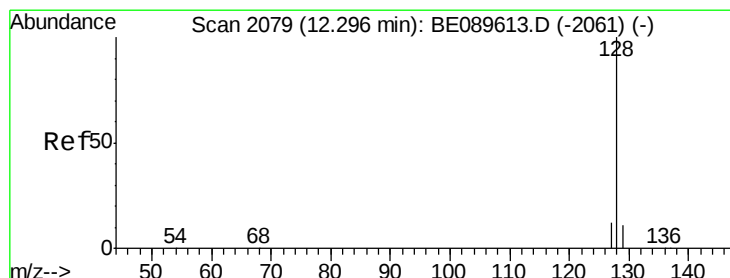
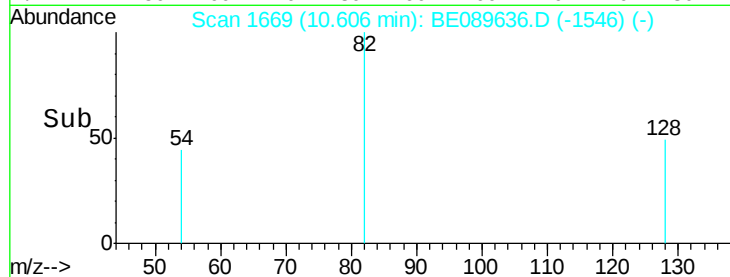
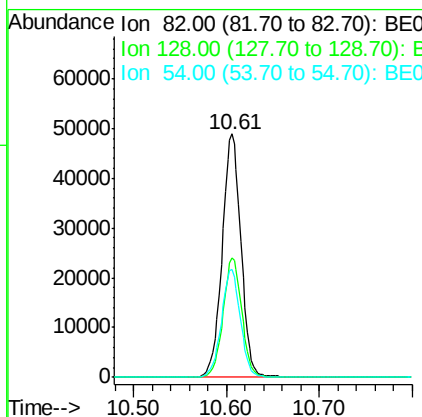
Instrument :

BNA_E

ClientSampleId :



Tgt Ion:	82	Resp:	68350
Ion	Ratio	Lower	Upper
82	100		
128	49.0	35.5	53.3
54	44.2	37.5	56.3



#6

Naphthalene

Concen: 0.08 ng

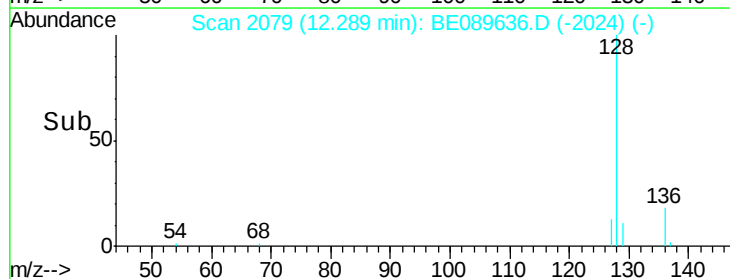
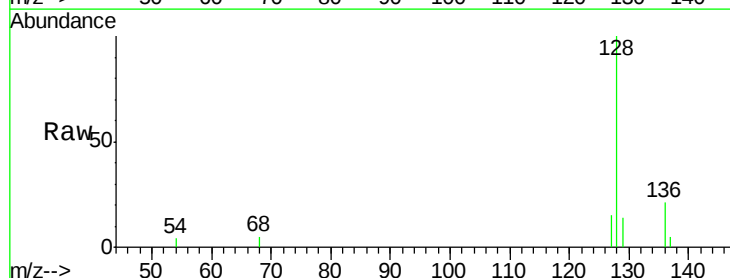
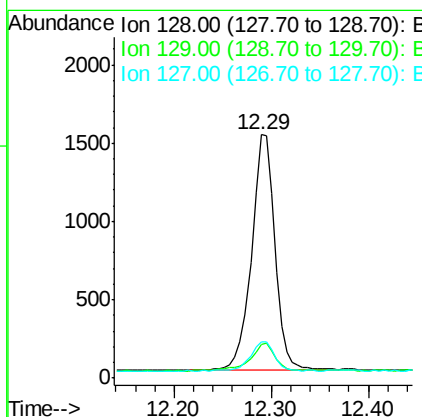
RT: 12.29 min Scan# 2079

Delta R.T. -0.01 min

Lab File: BE089636.D

Acq: 19 Feb 2015 13:58

Tgt Ion:	128	Resp:	2478
Ion	Ratio	Lower	Upper
128	100		
129	13.8	8.9	13.3#
127	15.1	9.8	14.8#





#7

2-Methylnaphthalene

Concen: 0.07 ng

RT: 13.95 min Scan# 2419

Delta R.T. 0.00 min

Lab File: BE089636.D

Acq: 19 Feb 2015 13:58

Instrument :

BNA_E

ClientSampleId :

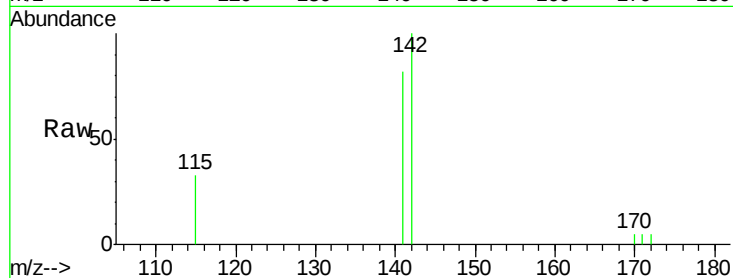
Tgt Ion:142 Resp: 1371

Ion Ratio Lower Upper

142 100

141 82.2 68.3 102.5

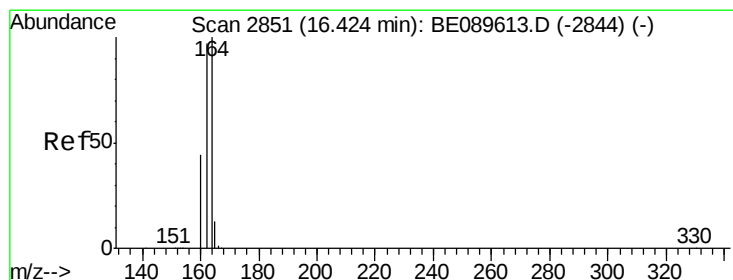
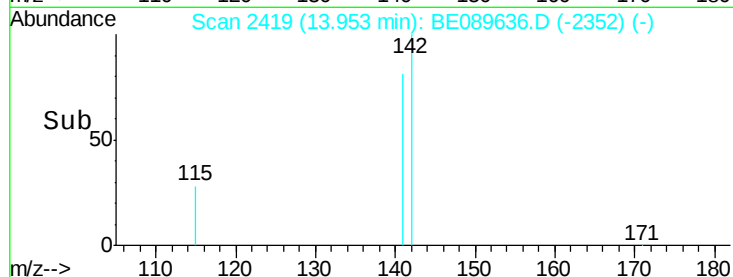
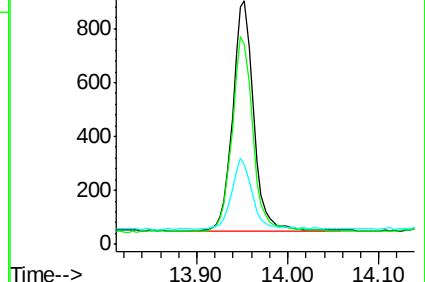
115 33.0 25.1 37.7



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E



#8

Acenaphthene-d10

Concen: 5.00 ng

RT: 16.42 min Scan# 2853

Delta R.T. 0.00 min

Lab File: BE089636.D

Acq: 19 Feb 2015 13:58

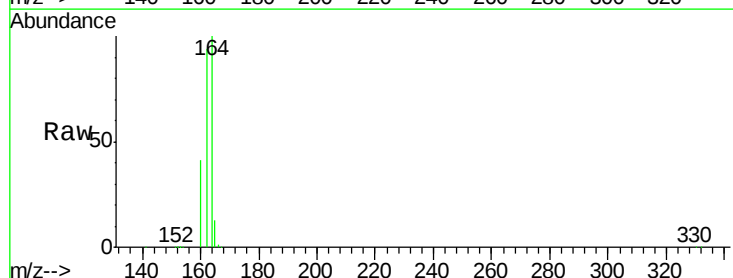
Tgt Ion:164 Resp: 72449

Ion Ratio Lower Upper

164 100

162 93.8 77.5 116.3

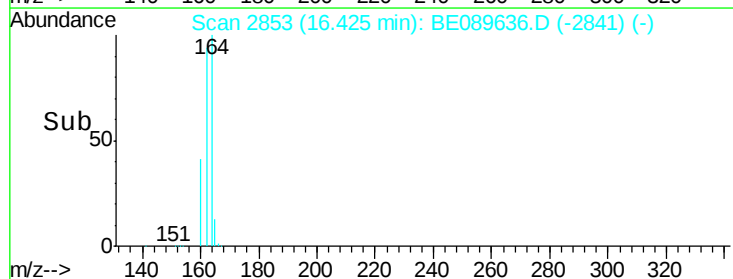
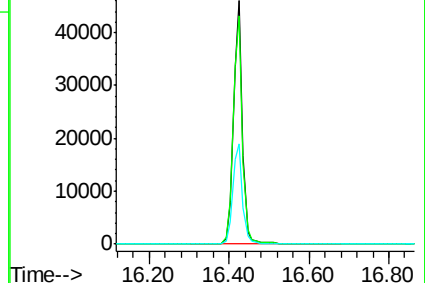
160 41.0 35.5 53.3



Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#9

2-Fluorobiphenyl

Concen: 9.12 ng

RT: 14.88 min Scan# 2622

Delta R.T. -0.01 min

Lab File: BE089636.D

Acq: 19 Feb 2015 13:58

Instrument :

BNA_E

ClientSampleId :

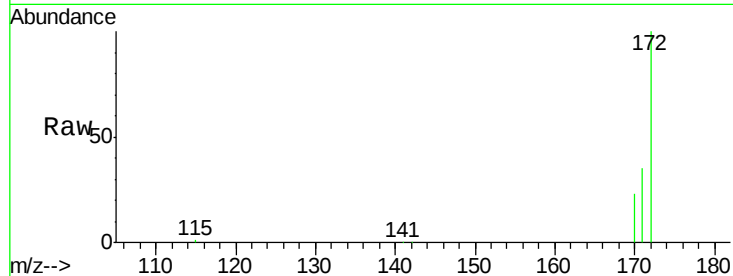
Tgt Ion:172 Resp: 177033

Ion Ratio Lower Upper

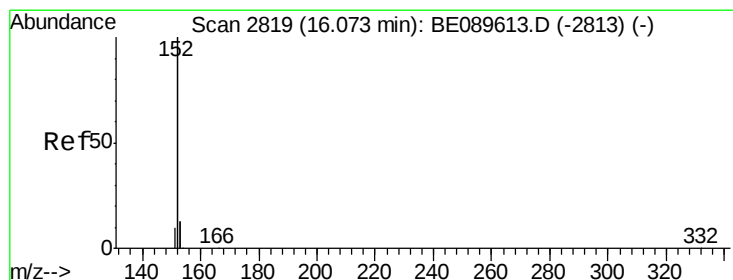
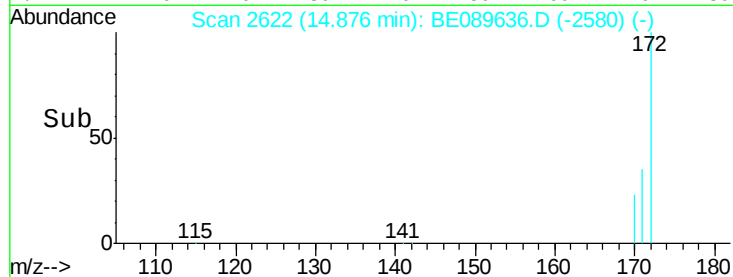
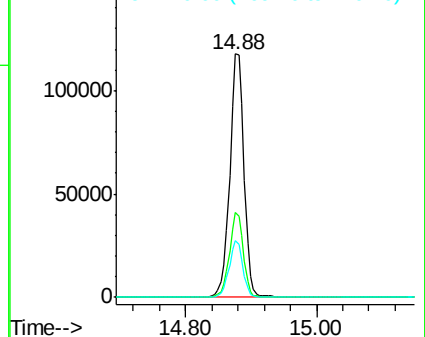
172 100

171 35.1 26.9 40.3

170 23.5 17.4 26.0



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



#10

Acenaphthylene

Concen: 0.06 ng

RT: 16.07 min Scan# 2821

Delta R.T. 0.00 min

Lab File: BE089636.D

Acq: 19 Feb 2015 13:58

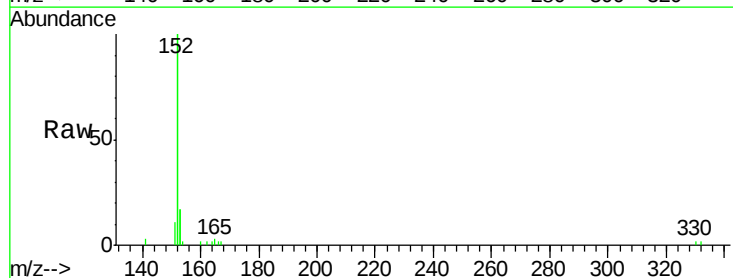
Tgt Ion:152 Resp: 7357

Ion Ratio Lower Upper

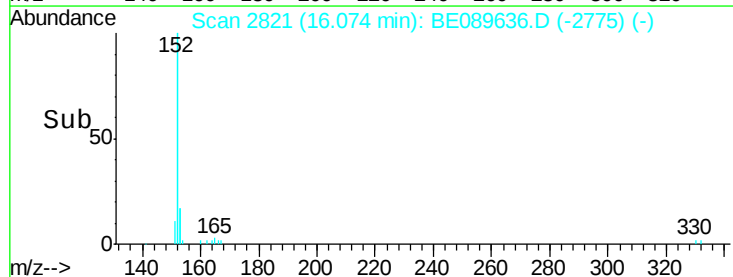
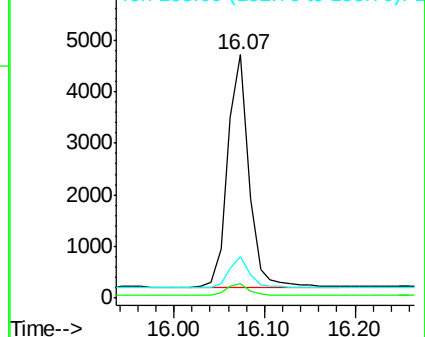
152 100

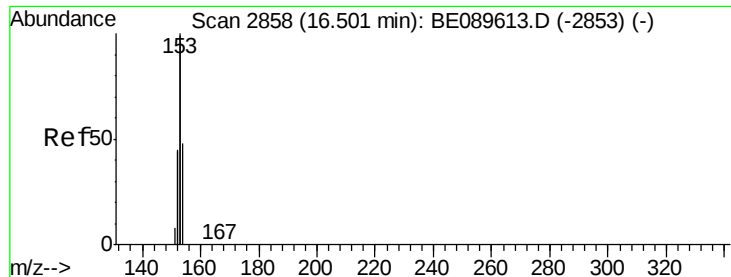
151 5.0 3.9 5.9

153 13.3 10.5 15.7



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





#11

Acenaphthene

Concen: 0.07 ng

RT: 16.49 min Scan# 2859

Delta R.T. -0.01 min

Lab File: BE089636.D

Acq: 19 Feb 2015 13:58

Instrument :

BNA_E

ClientSampleId :

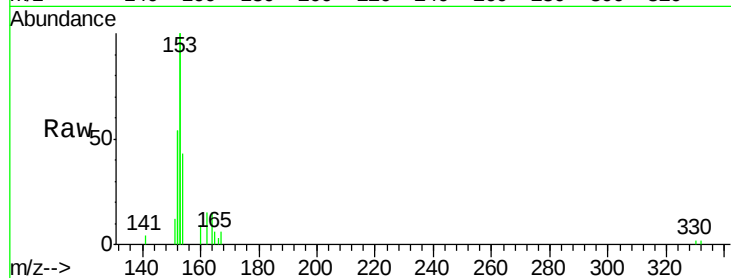
Tgt Ion:154 Resp: 1341

Ion Ratio Lower Upper

154 100

153 453.8 348.9 523.3

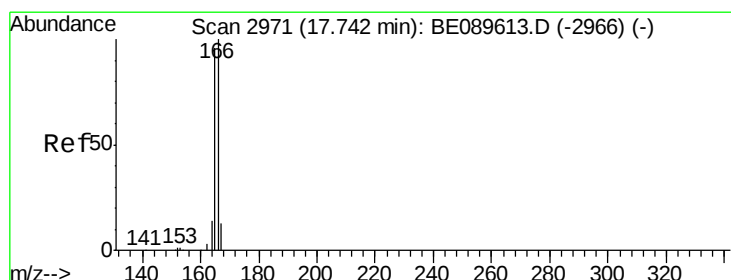
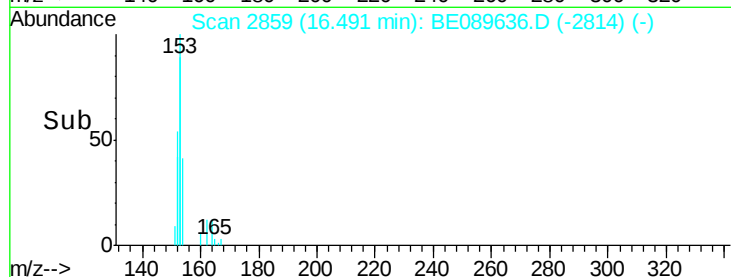
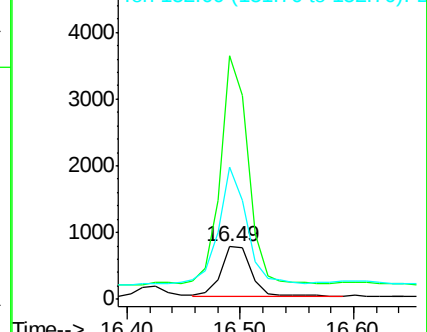
152 231.6 166.6 249.8



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



#12

Fluorene

Concen: 0.07 ng

RT: 17.74 min Scan# 2973

Delta R.T. 0.00 min

Lab File: BE089636.D

Acq: 19 Feb 2015 13:58

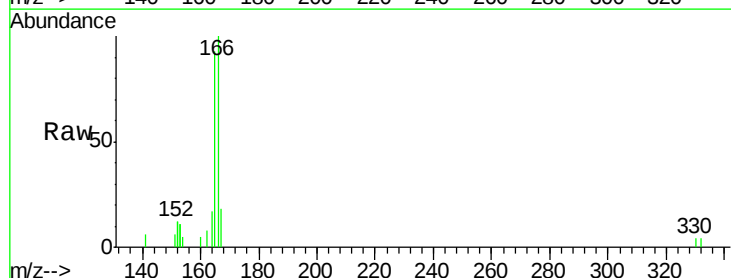
Tgt Ion:166 Resp: 1598

Ion Ratio Lower Upper

166 100

165 90.0 74.7 112.1

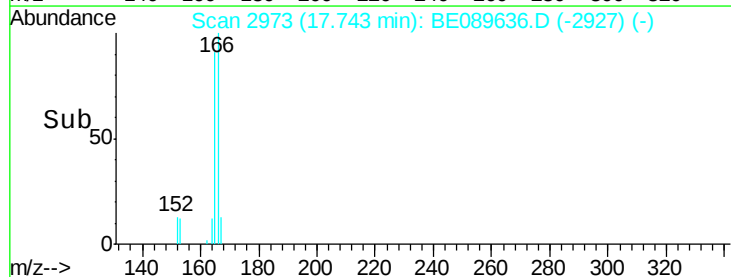
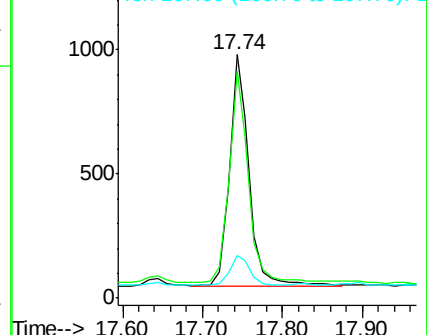
167 13.8 10.5 15.7

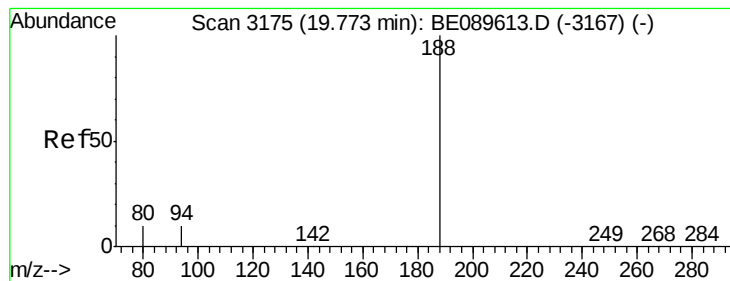


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E





#13

Phenanthrene-d10

Concen: 5.00 ng

RT: 19.77 min Scan# 3177

Delta R.T. -0.00 min

Lab File: BE089636.D

Acq: 19 Feb 2015 13:58

Instrument :

BNA_E

ClientSampleId :

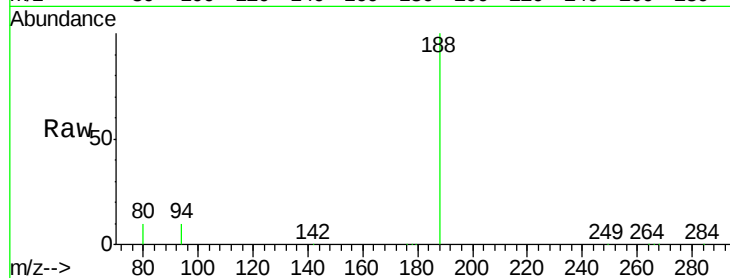
Tgt Ion:188 Resp: 143885

Ion Ratio Lower Upper

188 100

94 9.9 8.2 12.4

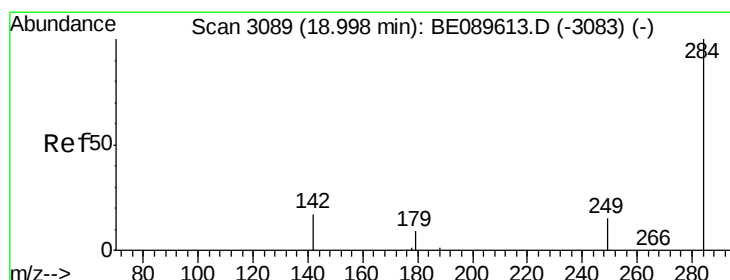
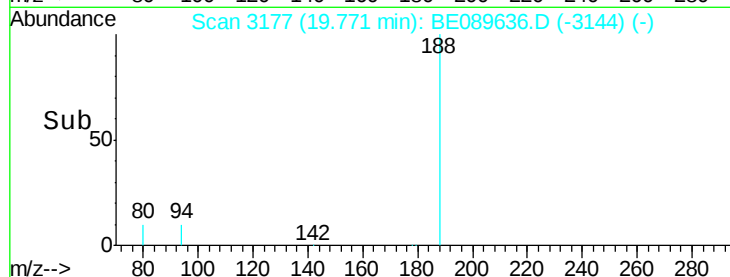
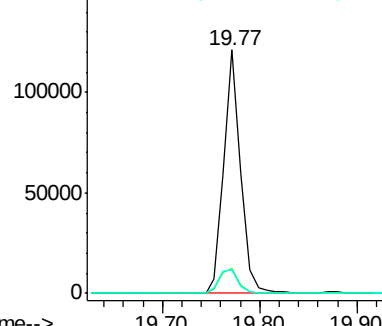
80 9.7 8.1 12.1



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0



#14

Hexachlorobenzene

Concen: 0.08 ng

RT: 19.00 min Scan# 3091

Delta R.T. -0.00 min

Lab File: BE089636.D

Acq: 19 Feb 2015 13:58

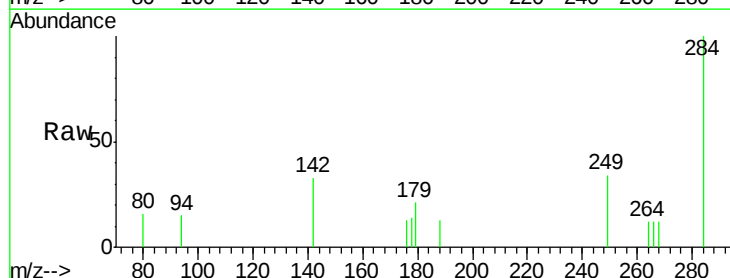
Tgt Ion:284 Resp: 496

Ion Ratio Lower Upper

284 100

142 43.1 32.3 48.5

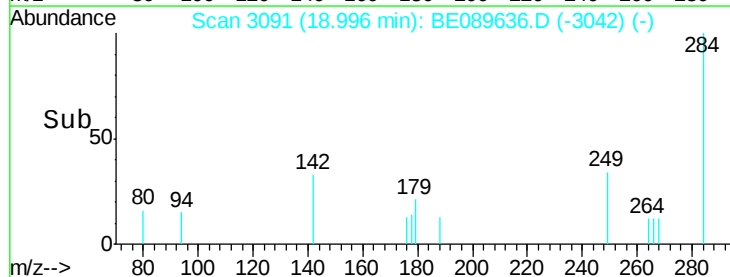
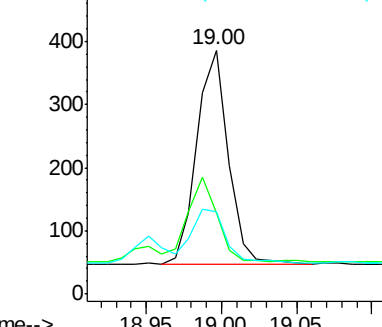
249 27.2 22.3 33.5



Abundance Ion 283.80 (283.50 to 284.50): E

Ion 142.00 (141.70 to 142.70): E

Ion 249.00 (248.70 to 249.70): E

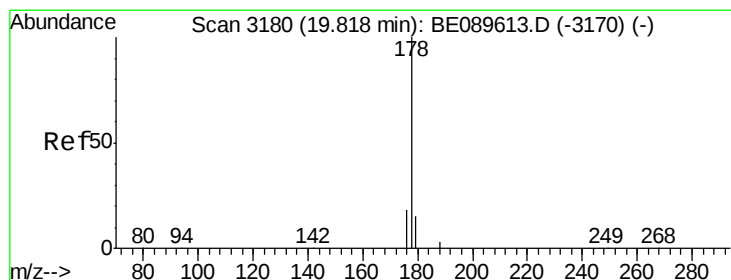
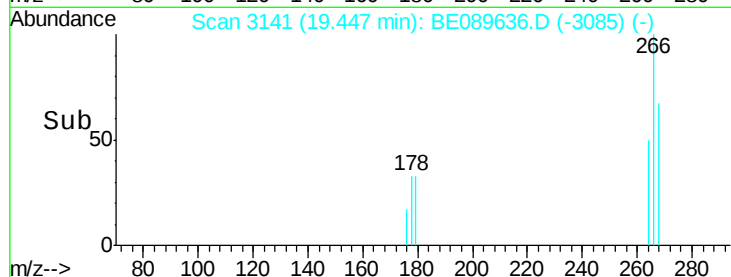
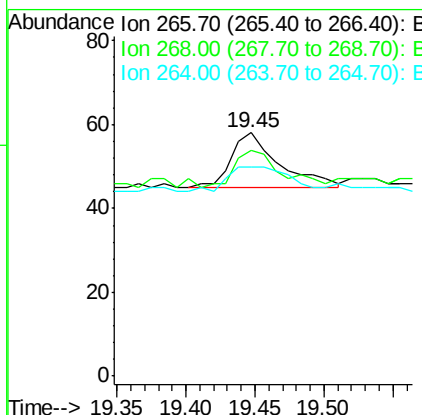
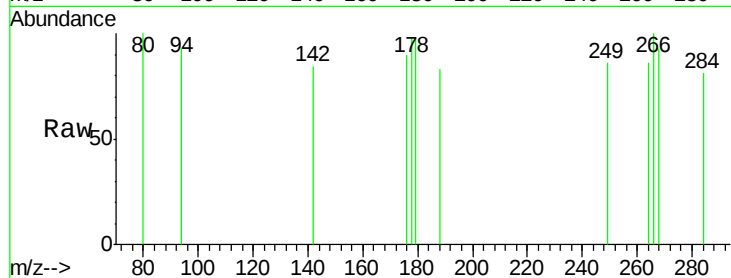




#15
 Pentachlorophenol
 Concen: Below Cal
 RT: 19.45 min Scan# 3141
 Delta R.T. 0.01 min
 Lab File: BE089636.D
 Acq: 19 Feb 2015 13:58

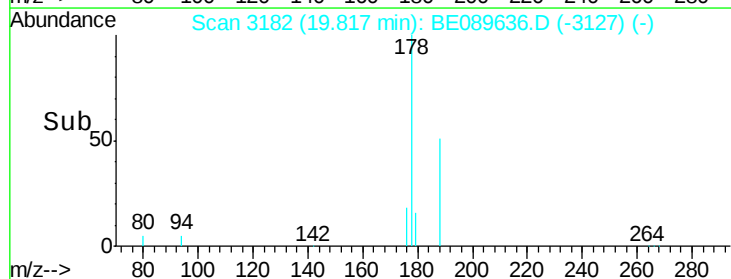
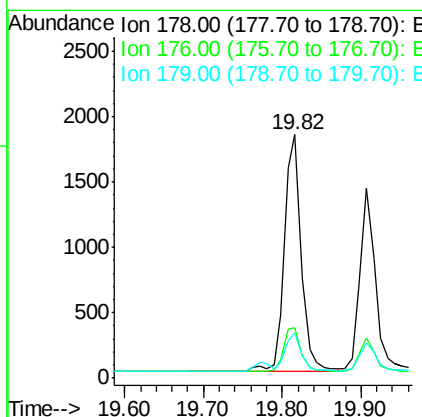
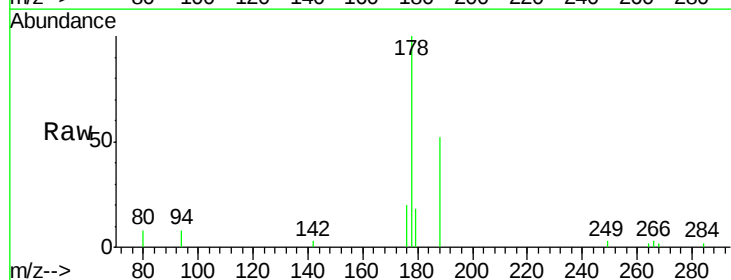
Instrument :
 BNA_E
 ClientSampleId :

Tgt Ion: 266 Resp: 31
 Ion Ratio Lower Upper
 266 100
 268 93.1 52.6 79.0#
 264 86.2 51.8 77.8#



#16
 Phenanthrene
 Concen: 0.08 ng
 RT: 19.82 min Scan# 3182
 Delta R.T. -0.00 min
 Lab File: BE089636.D
 Acq: 19 Feb 2015 13:58

Tgt Ion: 178 Resp: 2700
 Ion Ratio Lower Upper
 178 100
 176 19.3 15.1 22.7
 179 15.0 12.3 18.5

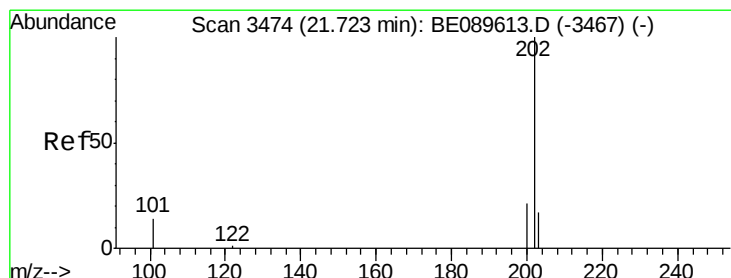
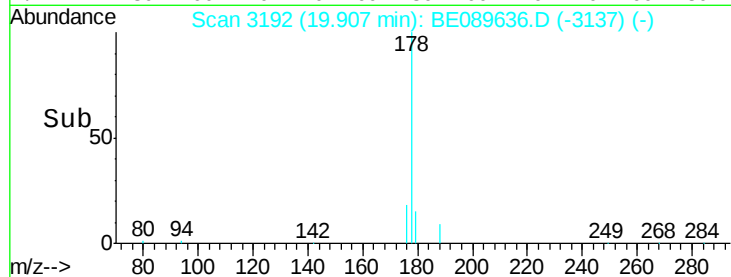
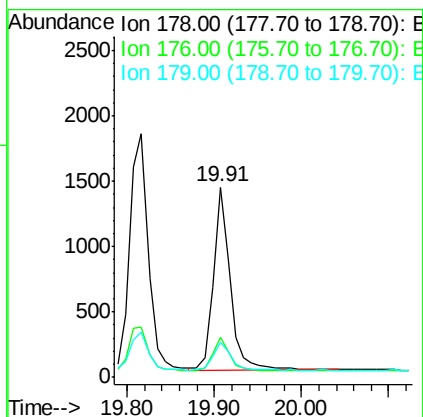
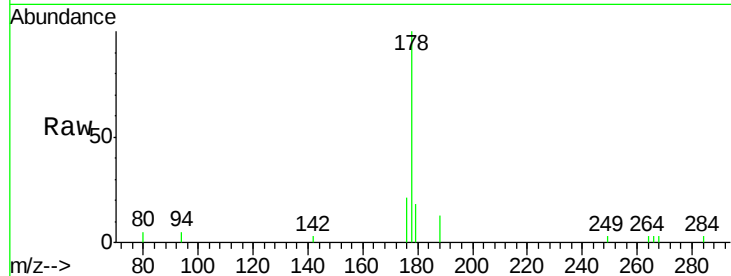




#17
 Anthracene
 Concen: 0.06 ng
 RT: 19.91 min Scan# 3192
 Delta R.T. -0.00 min
 Lab File: BE089636.D
 Acq: 19 Feb 2015 13:58

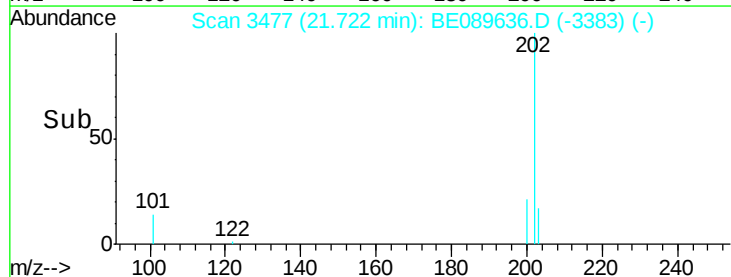
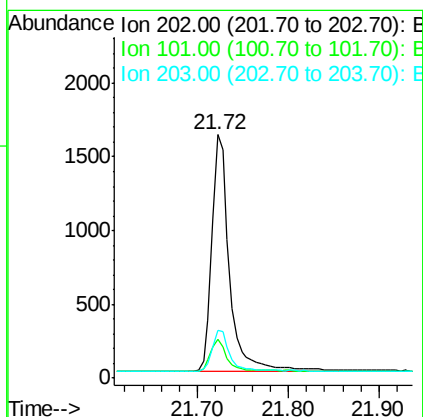
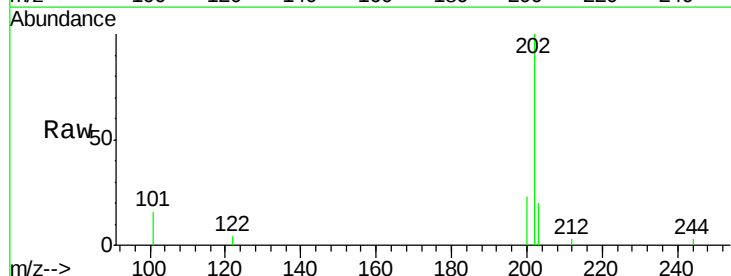
Instrument :
 BNA_E
 ClientSampleId :

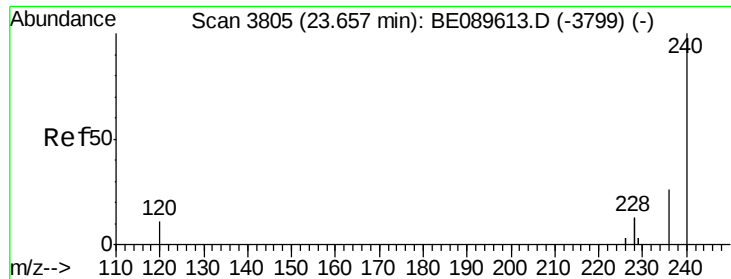
Tgt Ion:178 Resp: 1898
 Ion Ratio Lower Upper
 178 100
 176 18.9 14.6 22.0
 179 15.9 12.3 18.5



#18
 Fluoranthene
 Concen: 0.06 ng
 RT: 21.72 min Scan# 3477
 Delta R.T. -0.00 min
 Lab File: BE089636.D
 Acq: 19 Feb 2015 13:58

Tgt Ion:202 Resp: 2173
 Ion Ratio Lower Upper
 202 100
 101 12.5 10.4 15.6
 203 16.5 13.9 20.9





#19

Chrysene-d12

Concen: 5.00 ng

RT: 23.66 min Scan# 3808

Delta R.T. 0.00 min

Lab File: BE089636.D

Acq: 19 Feb 2015 13:58

Instrument :

BNA_E

ClientSampleId :

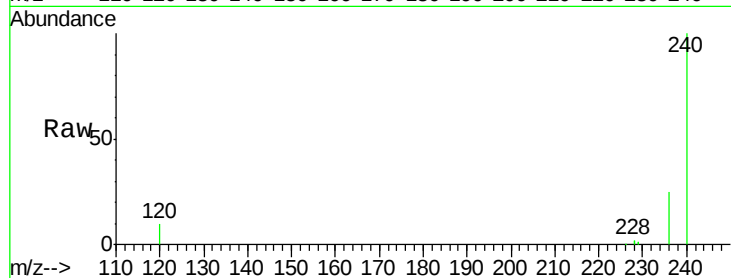
Tgt Ion:240 Resp: 136856

Ion Ratio Lower Upper

240 100

120 10.1 9.0 13.4

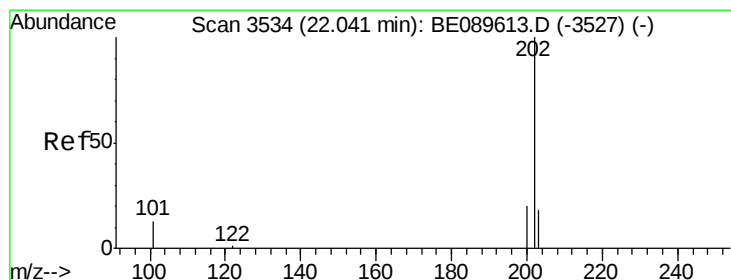
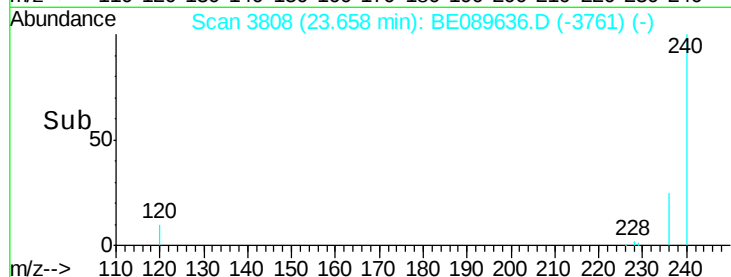
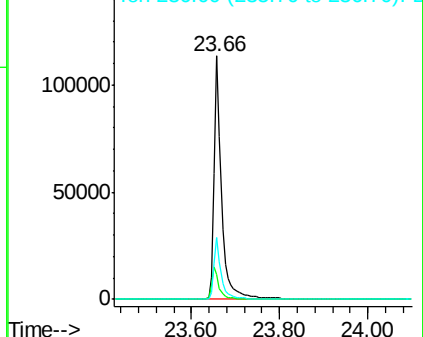
236 25.5 21.0 31.6



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



#20

Pyrene

Concen: 0.07 ng

RT: 22.04 min Scan# 3537

Delta R.T. -0.00 min

Lab File: BE089636.D

Acq: 19 Feb 2015 13:58

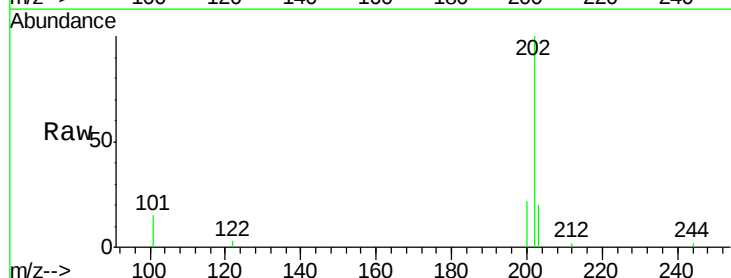
Tgt Ion:202 Resp: 2278

Ion Ratio Lower Upper

202 100

200 20.3 16.3 24.5

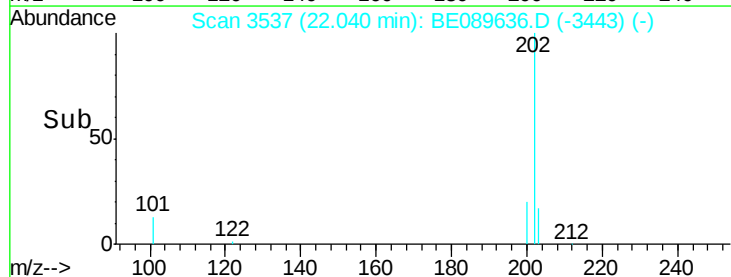
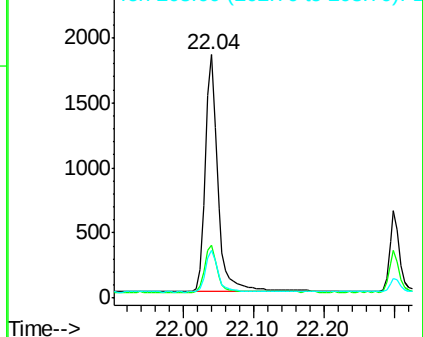
203 17.8 13.8 20.8



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#21

Terphenyl-d14

Concen: 11.41 ng

RT: 22.31 min Scan# 3587

Delta R.T. 0.00 min

Lab File: BE089636.D

Acq: 19 Feb 2015 13:58

Instrument :

BNA_E

ClientSampleId :

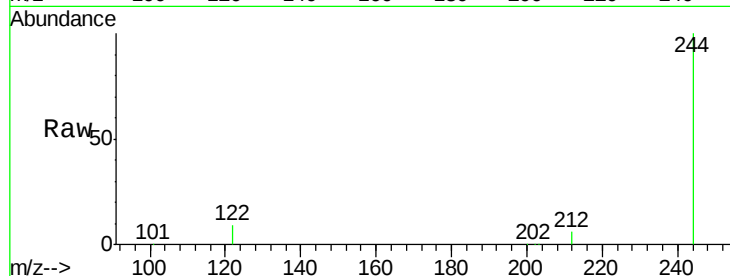
Tgt Ion:244 Resp: 224440

Ion Ratio Lower Upper

244 100

212 6.2 5.8 8.8

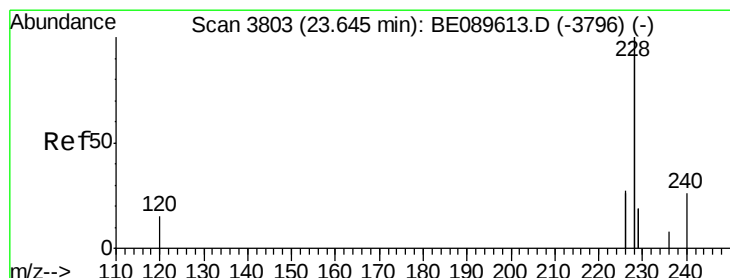
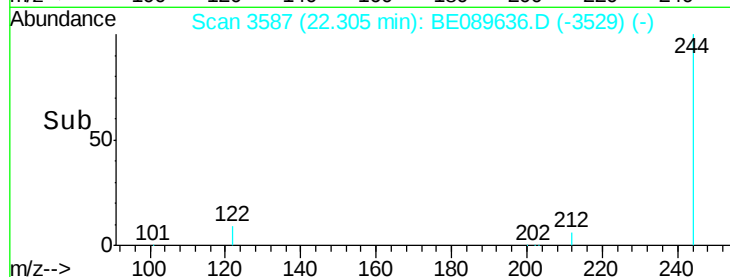
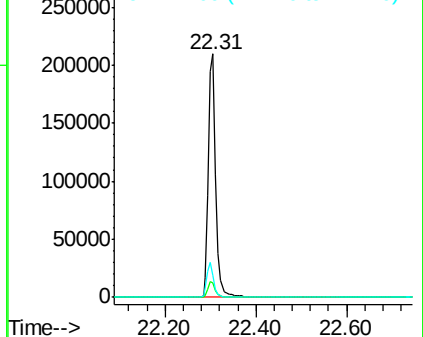
122 8.9 11.8 17.8#



Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#22

Benzo(a)anthracene

Concen: 0.07 ng

RT: 23.65 min Scan# 3807

Delta R.T. 0.01 min

Lab File: BE089636.D

Acq: 19 Feb 2015 13:58

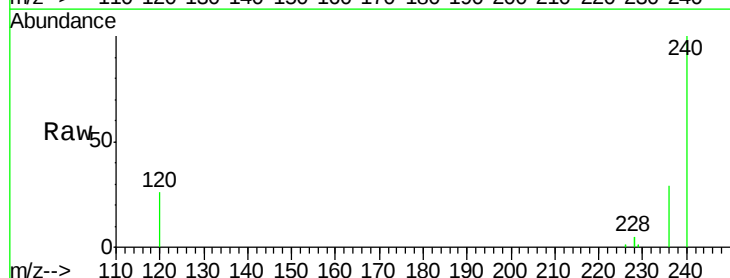
Tgt Ion:228 Resp: 8827

Ion Ratio Lower Upper

228 100

226 24.5 21.2 31.8

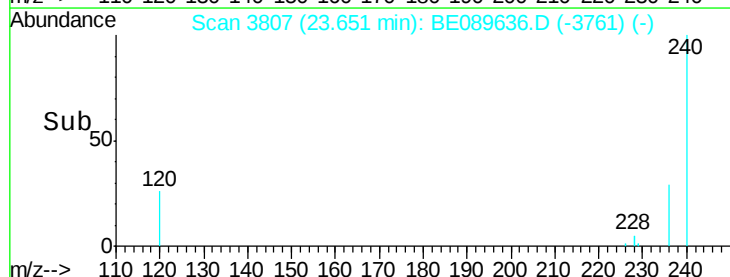
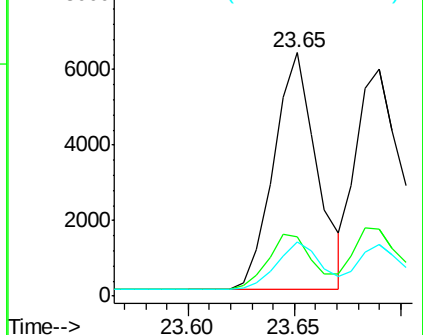
229 22.4 15.2 22.8



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





#23

Chrysene

Concen: 0.09 ng

RT: 23.69 min Scan# 3813

Delta R.T. 0.00 min

Lab File: BE089636.D

Acq: 19 Feb 2015 13:58

Instrument :

BNA_E

ClientSampleId :

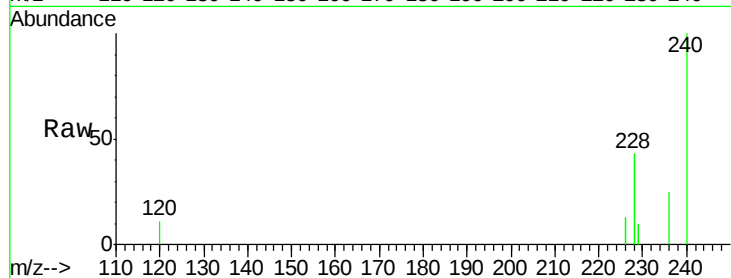
Tgt Ion:228 Resp: 12066

Ion Ratio Lower Upper

228 100

226 29.5 22.2 33.4

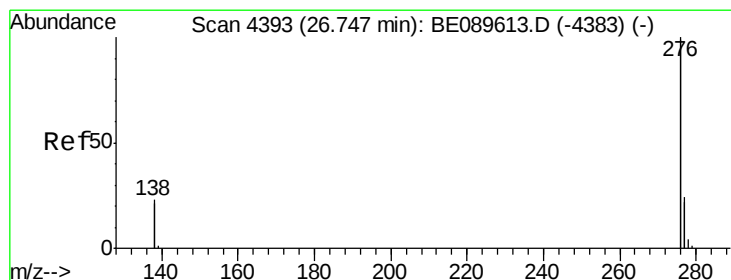
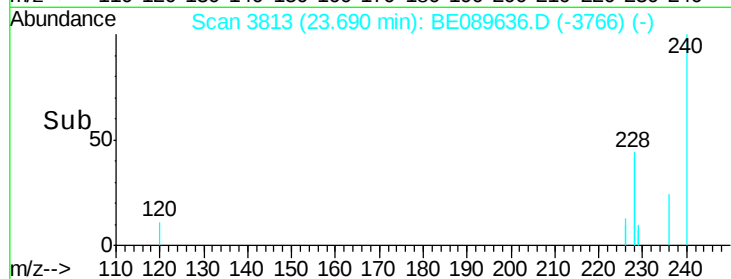
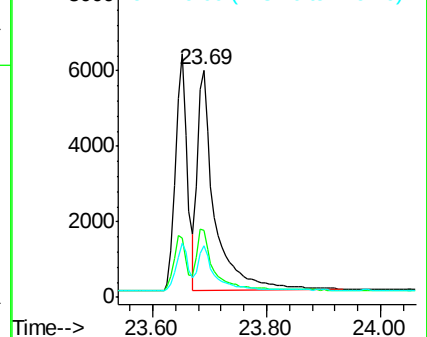
229 22.7 16.0 24.0



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



#24

Indeno(1,2,3-cd)pyrene

Concen: 0.20 ng

RT: 26.74 min Scan# 4395

Delta R.T. -0.01 min

Lab File: BE089636.D

Acq: 19 Feb 2015 13:58

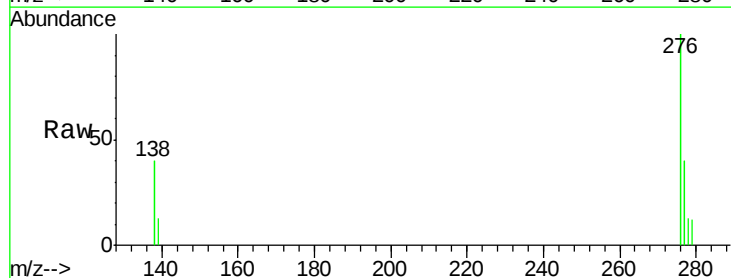
Tgt Ion:276 Resp: 2536

Ion Ratio Lower Upper

276 100

138 22.3 21.4 32.2

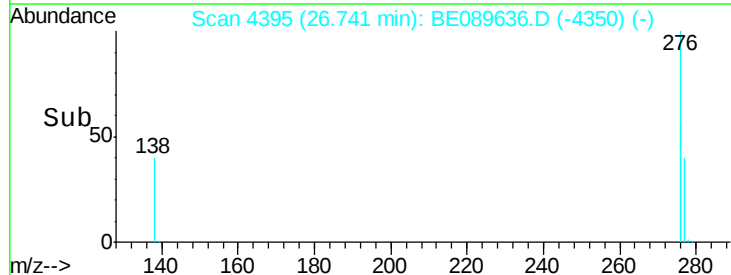
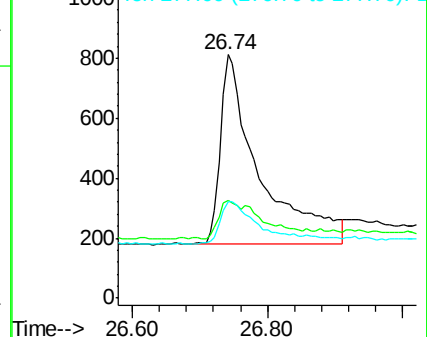
277 24.4 19.9 29.9

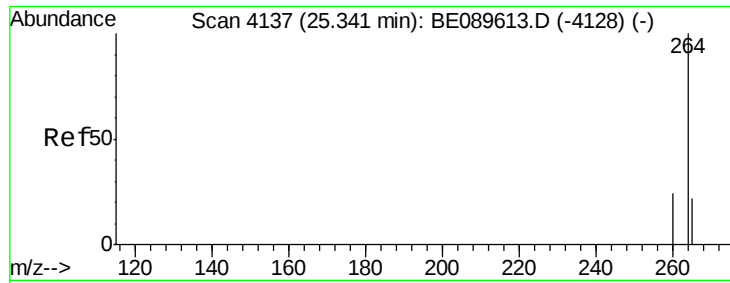


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

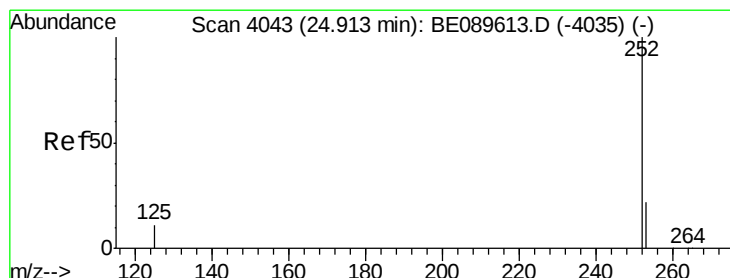
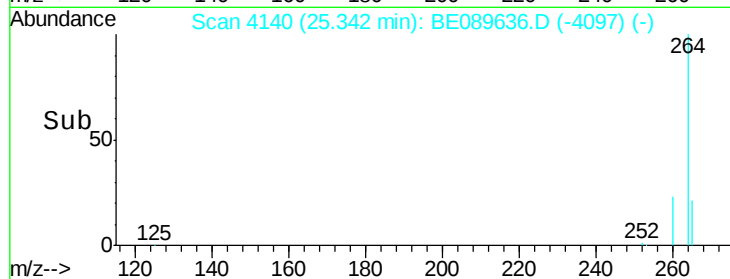
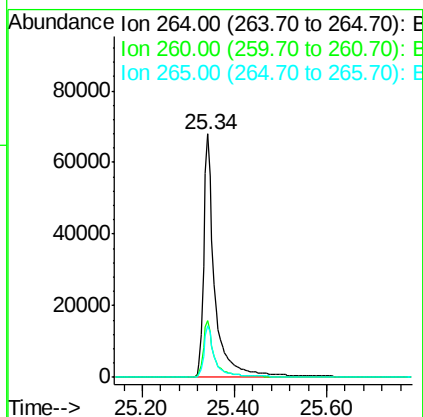
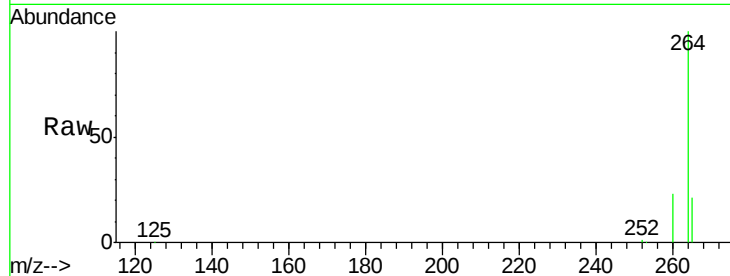




#25
 Perylene-d12
 Concen: 5.00 ng
 RT: 25.34 min Scan# 4140
 Delta R.T. 0.00 min
 Lab File: BE089636.D
 Acq: 19 Feb 2015 13:58

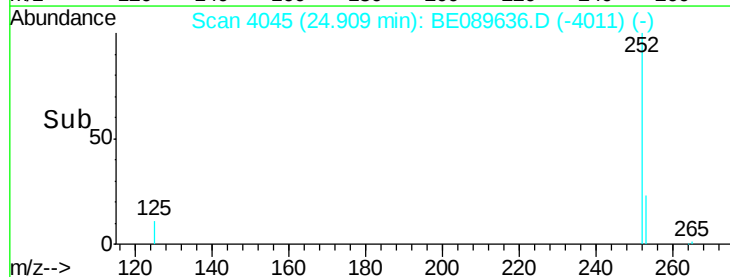
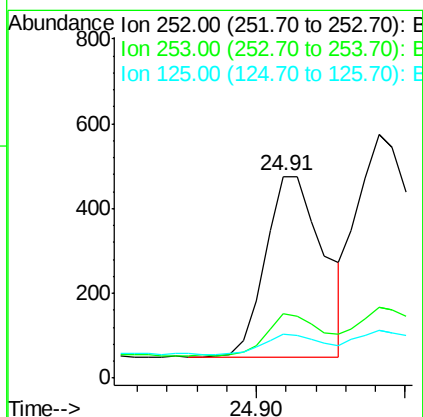
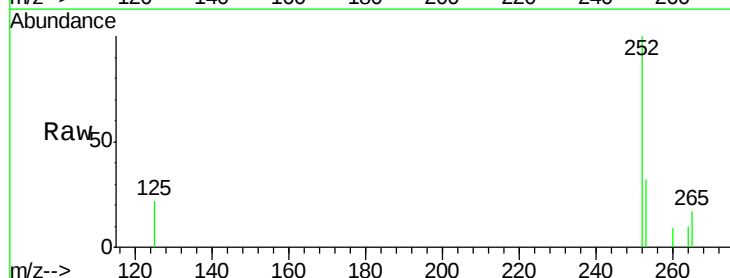
Instrument :
 BNA_E
 ClientSampleId :

Tgt Ion: 264 Resp: 113032
 Ion Ratio Lower Upper
 264 100
 260 23.5 19.0 28.6
 265 21.5 17.4 26.0



#26
 Benzo(b)fluoranthene
 Concen: 0.29 ng
 RT: 24.91 min Scan# 4045
 Delta R.T. -0.00 min
 Lab File: BE089636.D
 Acq: 19 Feb 2015 13:58

Tgt Ion: 252 Resp: 575
 Ion Ratio Lower Upper
 252 100
 253 31.8 17.6 26.4#
 125 21.7 8.8 13.2#





#27

Benzo(k)fluoranthene

Concen: 0.03 ng

RT: 24.94 min Scan# 4052

Delta R.T. -0.00 min

Lab File: BE089636.D

Acq: 19 Feb 2015 13:58

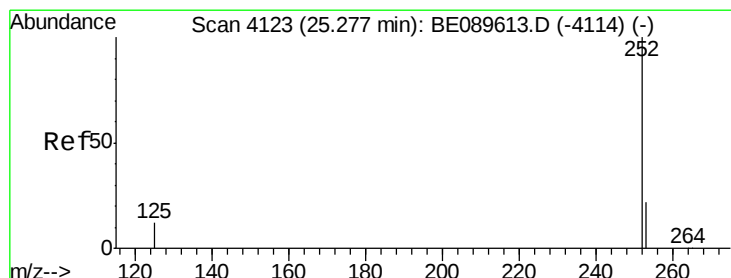
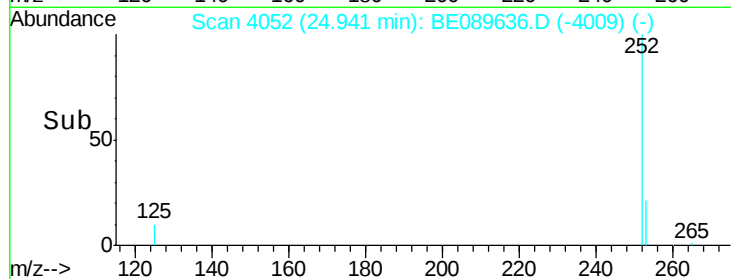
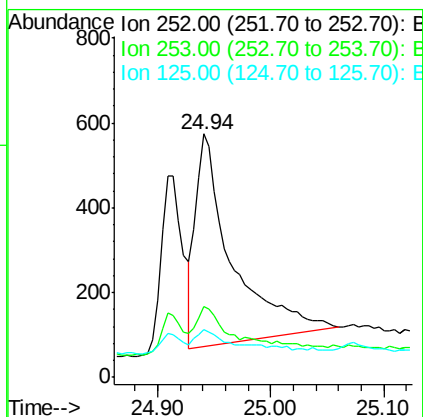
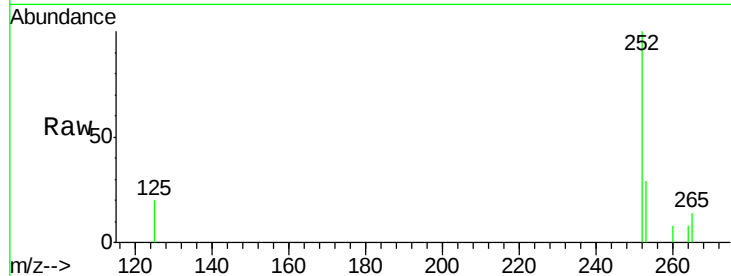
Instrument :

BNA_E

ClientSampleId :

Tgt Ion:252 Resp: 1122

Ion	Ratio	Lower	Upper
252	100		
253	28.9	17.7	26.5#
125	19.9	8.8	13.2#



#28

Benzo(a)pyrene

Concen: 0.26 ng

RT: 25.27 min Scan# 4125

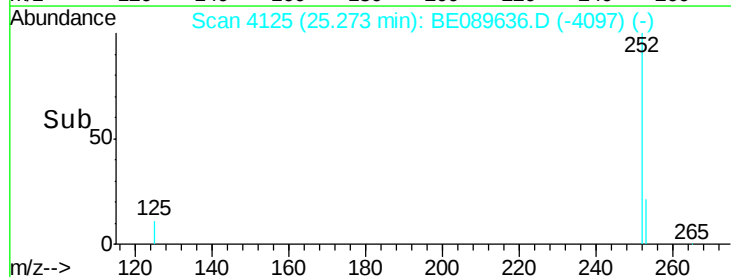
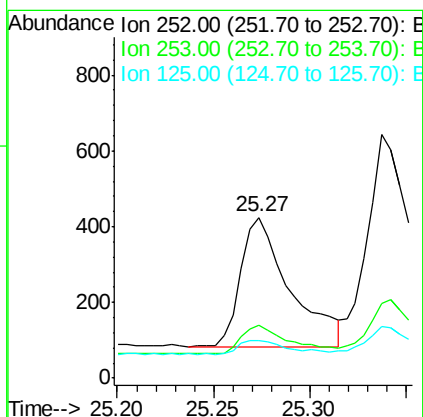
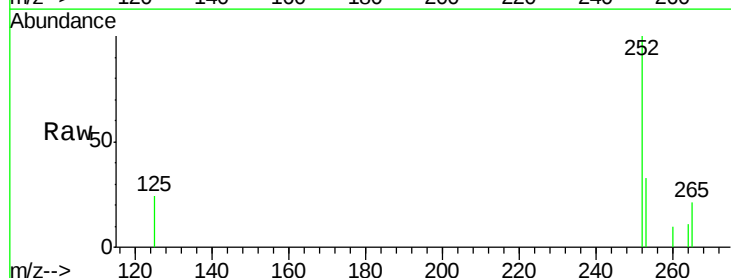
Delta R.T. -0.00 min

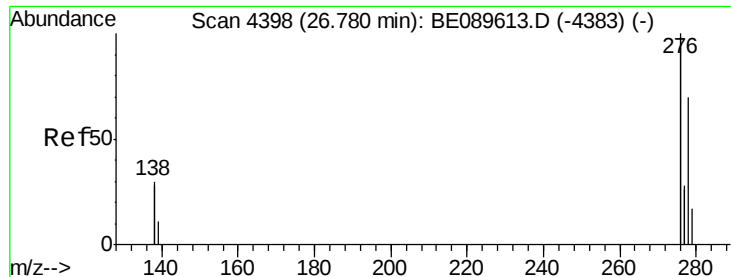
Lab File: BE089636.D

Acq: 19 Feb 2015 13:58

Tgt Ion:252 Resp: 615

Ion	Ratio	Lower	Upper
252	100		
253	33.3	18.1	27.1#
125	23.6	9.6	14.4#

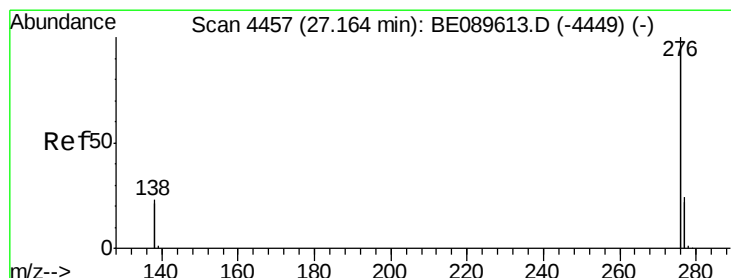
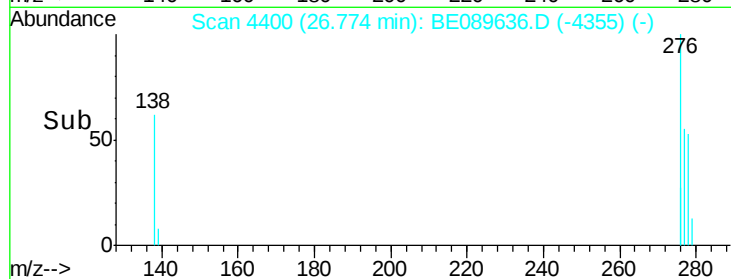
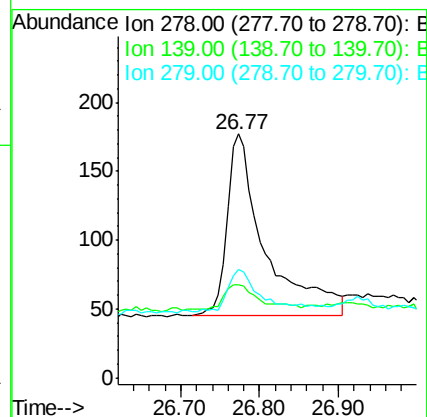
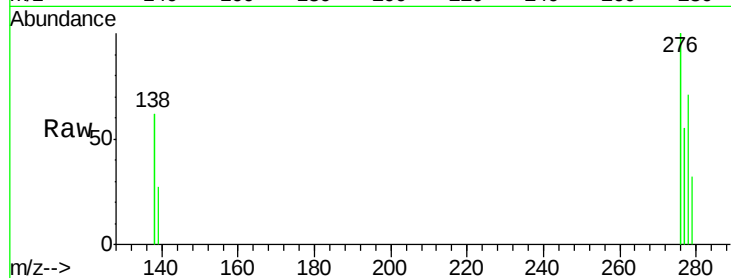




#29
Dibenzo(a,h)anthracene
Concen: 0.25 ng
RT: 26.77 min Scan# 4400
Delta R.T. -0.01 min
Lab File: BE089636.D
Acq: 19 Feb 2015 13:58

Instrument :
BNA_E
ClientSampleId :

Tgt Ion: 278 Resp: 439
Ion Ratio Lower Upper
278 100
139 38.4 13.7 20.5#
279 44.6 19.7 29.5#



#30
Benzo(g,h,i)perylene
Concen: 0.17 ng
RT: 27.16 min Scan# 4459
Delta R.T. -0.01 min
Lab File: BE089636.D
Acq: 19 Feb 2015 13:58

Tgt Ion: 276 Resp: 3325
Ion Ratio Lower Upper
276 100
277 37.4 19.1 28.7#
138 40.4 18.7 28.1#

