

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE020615\
 Data File : BE089587.D
 Acq On : 8 Feb 2015 12:43
 Operator : TP/IZ
 Sample : MDL-08-S
 Misc : MDL-SOIL-0.2/0.4
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: Feb 09 00:32:53 2015
 Quant Method : Z:\HPCHEM1\BNA_E\methods\SIMPAH-BE020615.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Feb 07 04:07:57 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.42	152	25100	5.00	ng	0.00
2) Naphthalene-d8	12.32	136	110867	5.00	ng	0.00
6) Acenaphthene-d10	16.51	164	61834	5.00	ng	0.00
11) Phenanthrene-d10	19.84	188	116548	5.00	ng	0.00
16) Chrysene-d12	23.72	240	121478	5.00	ng	0.00
22) Perylene-d12	25.40	264	105729	5.00	ng	-0.01

System Monitoring Compounds						
3) Nitrobenzene-d5	10.68	82	15063	2.05	ng	0.00
7) 2-Fluorobiphenyl	14.96	172	52249	3.17	ng	0.00
18) Terphenyl-d14	22.36	244	65173	4.07	ng	0.00

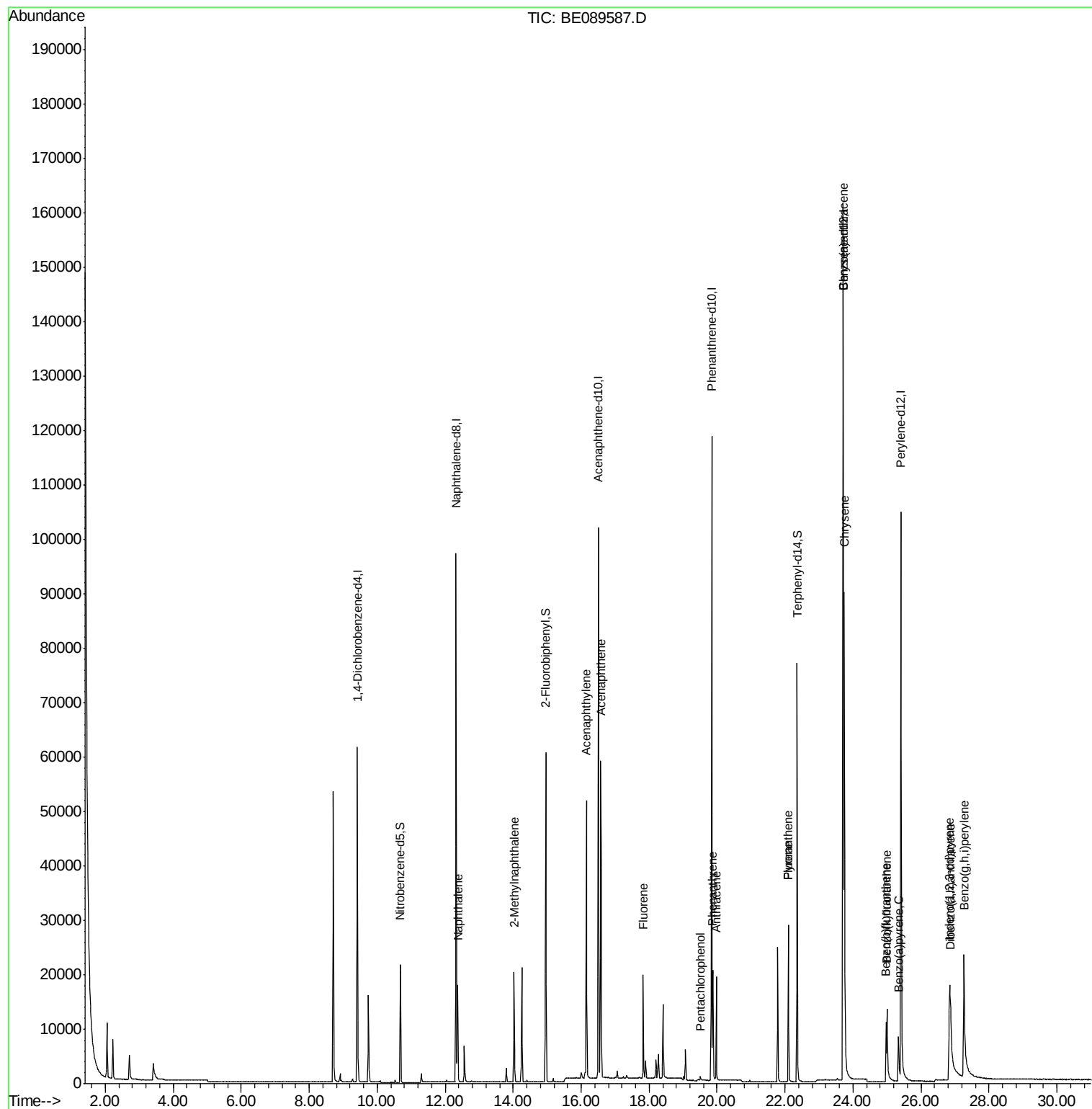
Target Compounds				Qvalue		
4) Naphthalene	12.37	128	20070	0.80	ng	99
5) 2-Methylnaphthalene	14.03	142	12200	0.86	ng	96
8) Acenaphthylene	16.16	152	69885	0.67	ng	100
9) Acenaphthene	16.58	154	11204	0.68	ng	97
10) Fluorene	17.83	166	12144	0.69	ng	99
12) Pentachlorophenol	19.51	266	616	1.21	ng	96
13) Phenanthrene	19.88	178	19789	0.69	ng	99
14) Anthracene	19.98	178	17195	0.70	ng	99
15) Fluoranthene	22.10	202	19432	0.72	ng	99
17) Pyrene	22.10	202	19432	0.75	ng	98
19) Benzo(a)anthracene	23.70	228	65515	0.61	ng	99
20) Chrysene	23.74	228	79786	0.73	ng	92
21) Indeno(1,2,3-cd)pyrene	26.84	276	52590	0.34	ng	# 92
23) Benzo(b)fluoranthene	24.97	252	10883	0.53	ng	98
24) Benzo(k)fluoranthene	25.00	252	18785	0.74	ng	98
25) Benzo(a)pyrene	25.34	252	10565	0.52	ng	99
26) Dibenzo(a,h)anthracene	26.87	278	9392	0.37	ng	98
27) Benzo(g,h,i)perylene	27.26	276	49579	0.48	ng	97

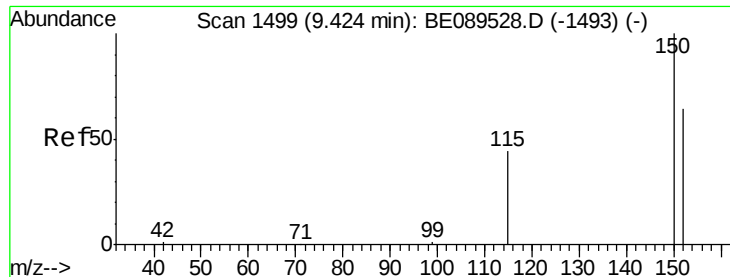
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 9.42 min Scan# 1498

Delta R.T. -0.00 min

Lab File: BE089587.D

Acq: 8 Feb 2015 12:43

Instrument :

BNA_E

ClientSampleId :

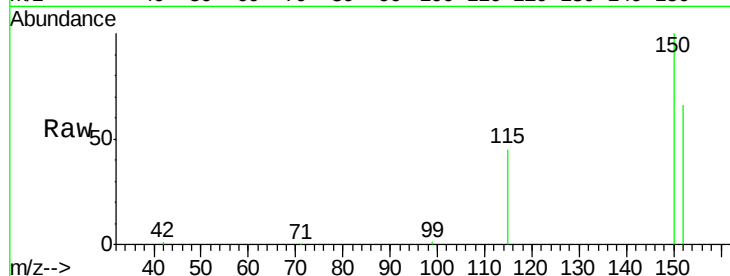
Tgt Ion:152 Resp: 25100

Ion Ratio Lower Upper

152 100

150 150.9 125.7 188.5

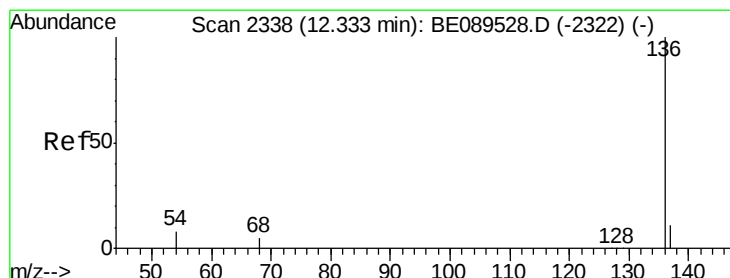
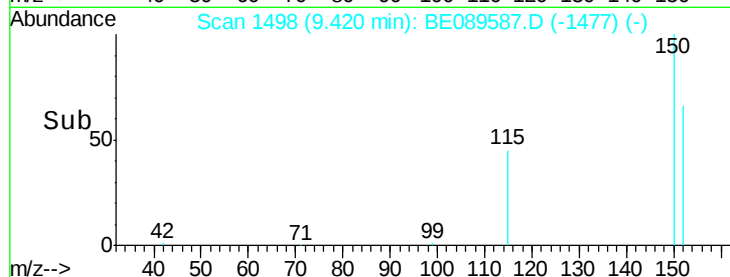
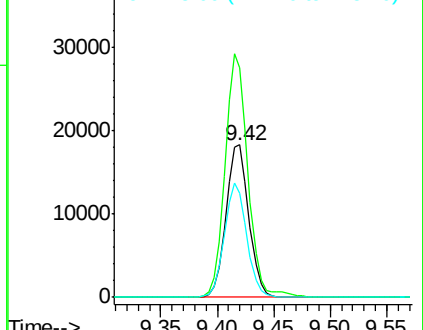
115 68.5 55.6 83.4



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: 12.32 min Scan# 2337

Delta R.T. -0.01 min

Lab File: BE089587.D

Acq: 8 Feb 2015 12:43

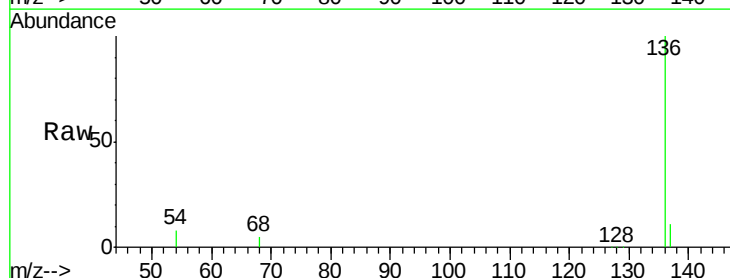
Tgt Ion:136 Resp: 110867

Ion Ratio Lower Upper

136 100

137 10.9 8.7 13.1

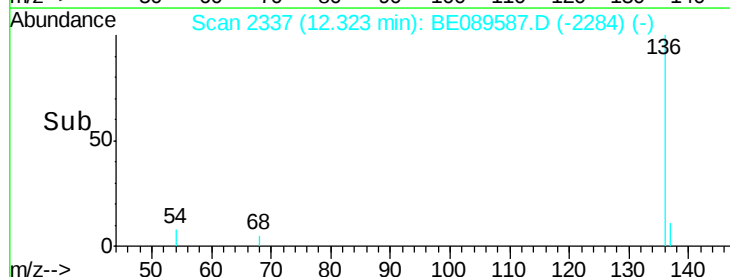
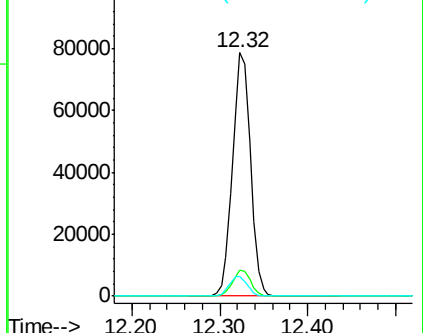
54 8.2 6.1 9.1



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: 2.05 ng

RT: 10.68 min Scan# 1893

Delta R.T. -0.01 min

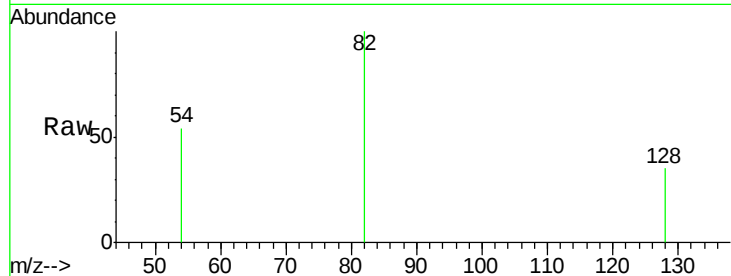
Lab File: BE089587.D

Acq: 8 Feb 2015 12:43

Instrument :

BNA_E

ClientSampleId :



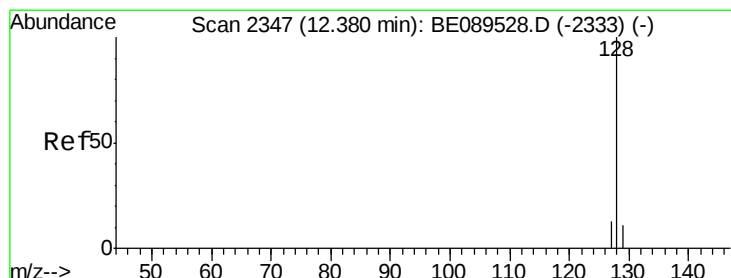
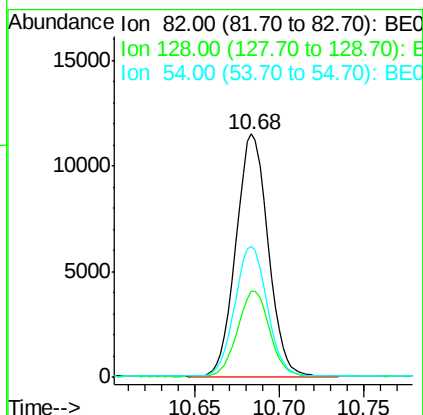
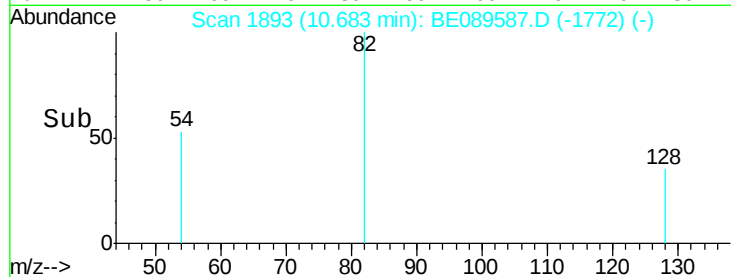
Tgt Ion: 82 Resp: 15063

Ion Ratio Lower Upper

82 100

128 35.3 30.2 45.4

54 53.9 40.6 60.8



#4

Naphthalene

Concen: 0.80 ng

RT: 12.37 min Scan# 2346

Delta R.T. -0.01 min

Lab File: BE089587.D

Acq: 8 Feb 2015 12:43

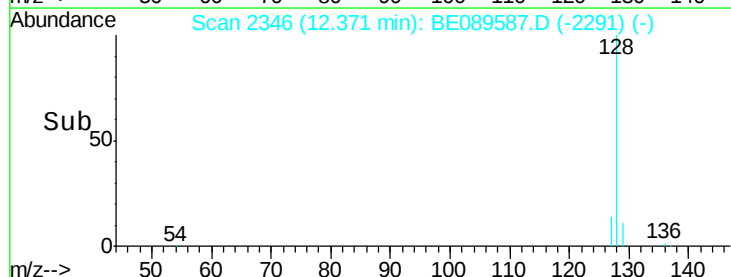
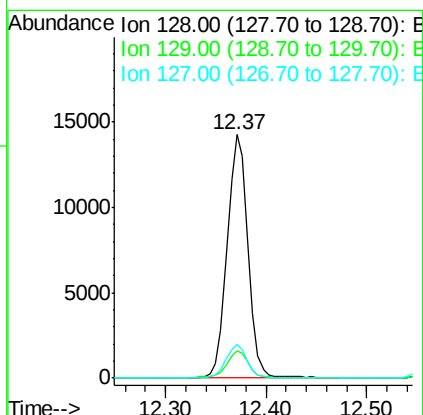
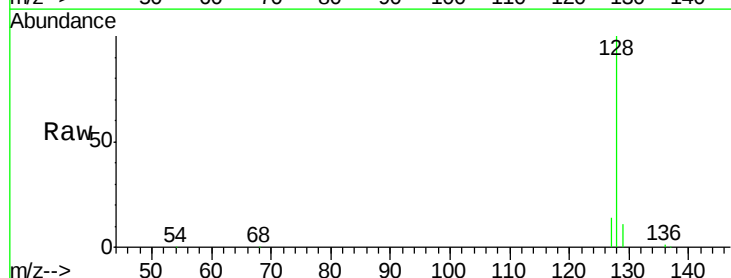
Tgt Ion: 128 Resp: 20070

Ion Ratio Lower Upper

128 100

129 11.0 9.1 13.7

127 13.8 10.5 15.7





#5

2-Methylnaphthalene

Concen: 0.86 ng

RT: 14.03 min Scan# 2678

Delta R.T. -0.01 min

Lab File: BE089587.D

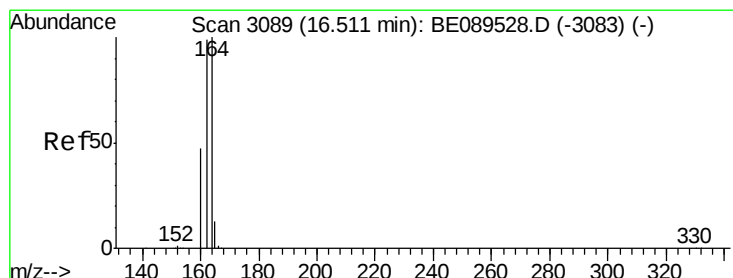
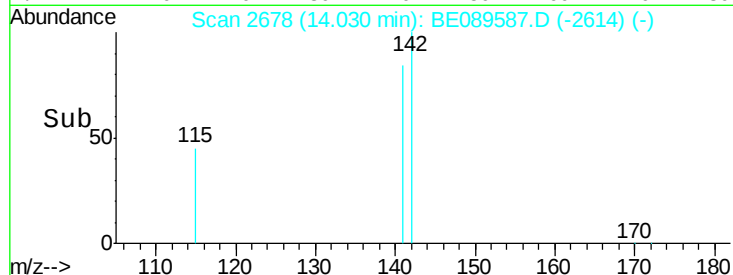
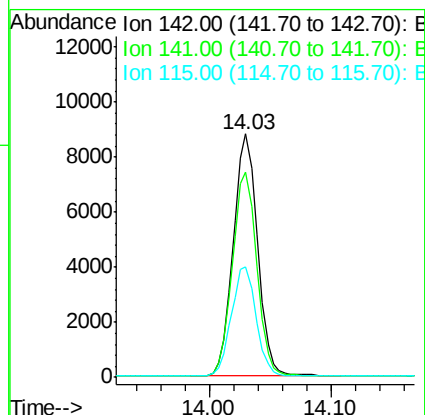
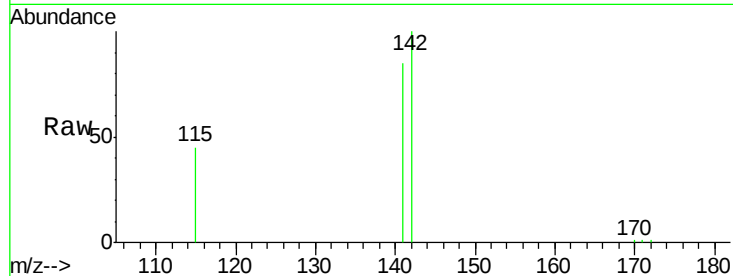
Acq: 8 Feb 2015 12:43

Instrument :

BNA_E

ClientSampleId :

Tgt Ion:	142	Resp:	12200
Ion	Ratio	Lower	Upper
142	100		
141	84.5	67.0	100.6
115	45.2	30.6	45.8



#6

Acenaphthene-d10

Concen: 5.00 ng

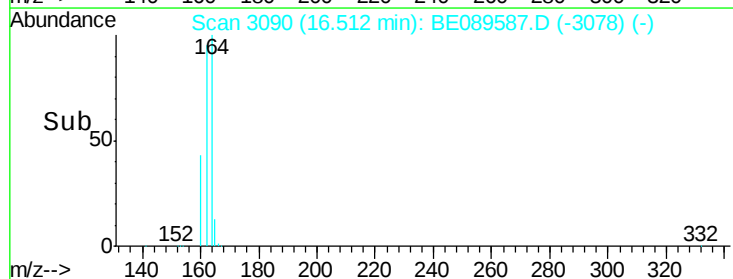
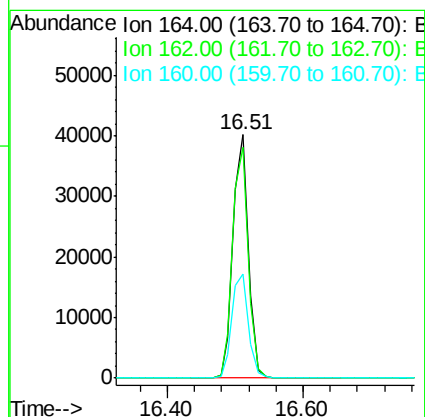
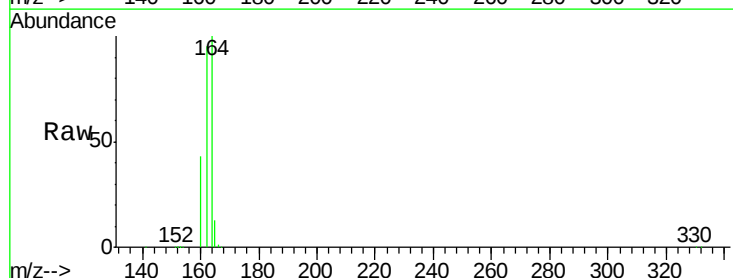
RT: 16.51 min Scan# 3090

Delta R.T. 0.00 min

Lab File: BE089587.D

Acq: 8 Feb 2015 12:43

Tgt Ion:	164	Resp:	61834
Ion	Ratio	Lower	Upper
164	100		
162	95.0	79.5	119.3
160	42.9	37.6	56.4





#7

2-Fluorobiphenyl

Concen: 3.17 ng

RT: 14.96 min Scan# 2882

Delta R.T. -0.00 min

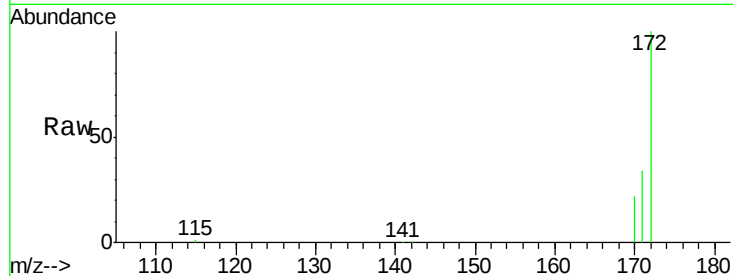
Lab File: BE089587.D

Acq: 8 Feb 2015 12:43

Instrument :

BNA_E

ClientSampled :



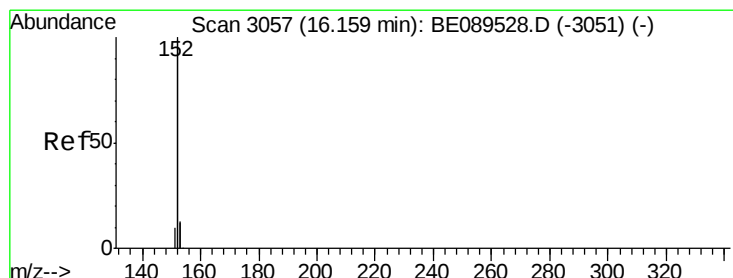
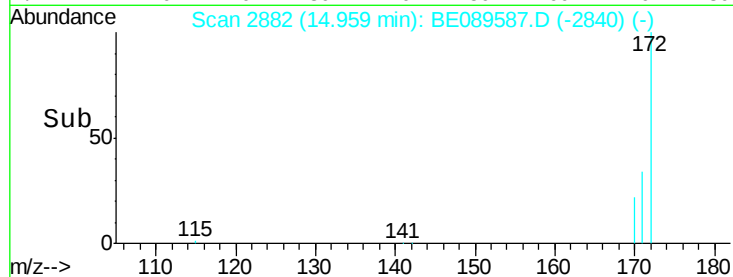
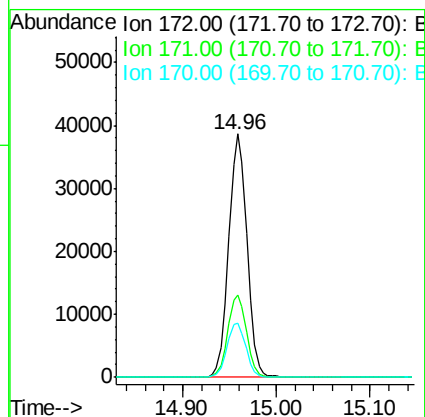
Tgt Ion:172 Resp: 52249

Ion Ratio Lower Upper

172 100

171 34.0 27.7 41.5

170 22.3 18.3 27.5



#8

Acenaphthylene

Concen: 0.67 ng

RT: 16.16 min Scan# 3058

Delta R.T. 0.00 min

Lab File: BE089587.D

Acq: 8 Feb 2015 12:43

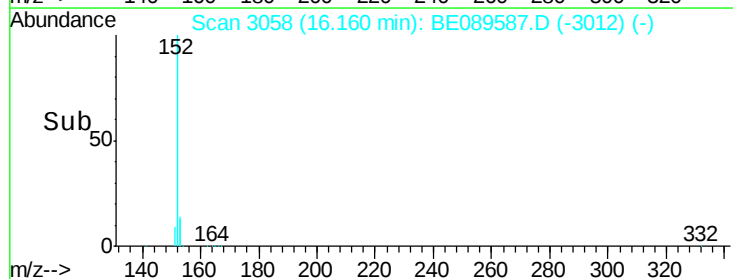
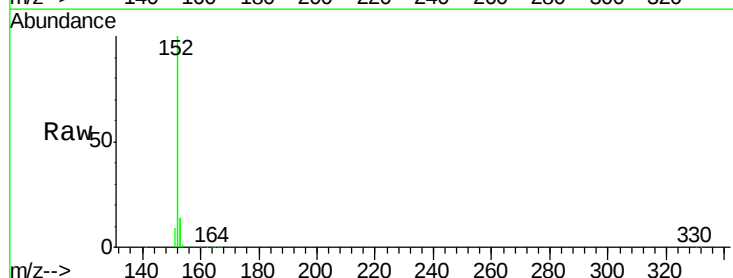
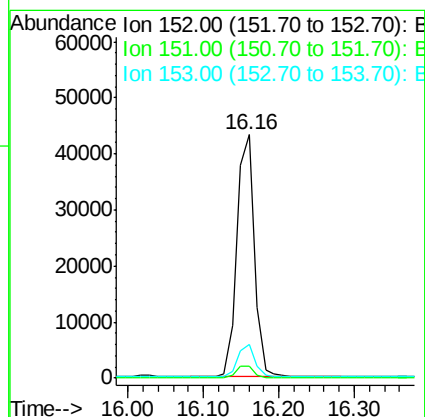
Tgt Ion:152 Resp: 69885

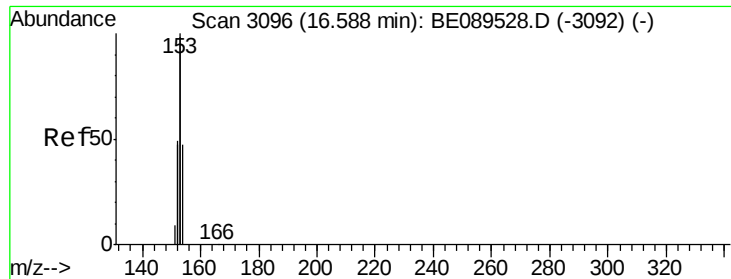
Ion Ratio Lower Upper

152 100

151 5.0 4.0 6.0

153 13.0 10.6 15.8





#9

Acenaphthene

Concen: 0.68 ng

RT: 16.58 min Scan# 3096

Delta R.T. -0.01 min

Lab File: BE089587.D

Acq: 8 Feb 2015 12:43

Instrument :

BNA_E

ClientSampleId :

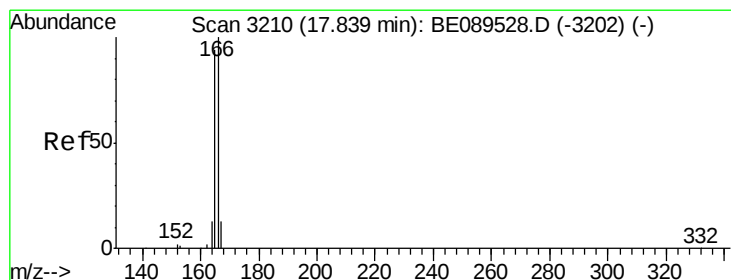
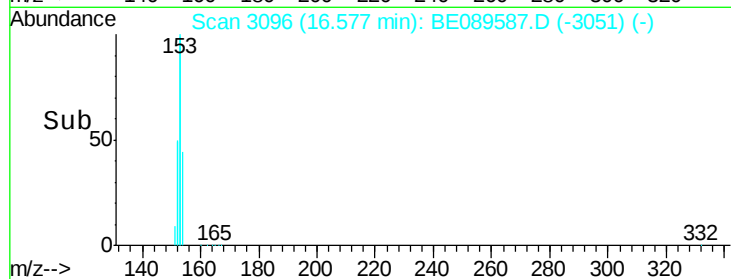
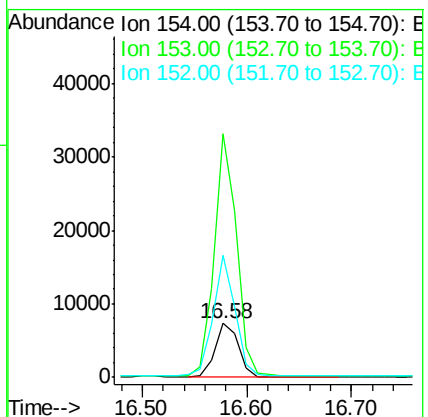
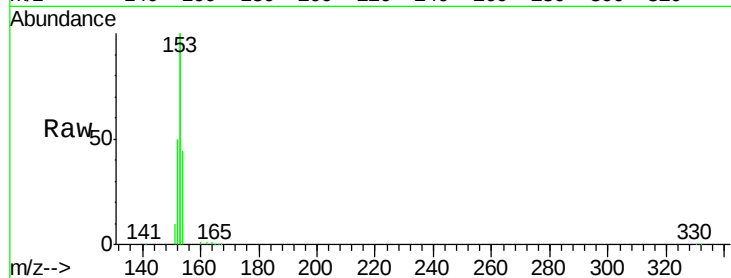
Tgt Ion:154 Resp: 11204

Ion Ratio Lower Upper

154 100

153 432.6 340.8 511.2

152 211.1 165.5 248.3



#10

Fluorene

Concen: 0.69 ng

RT: 17.83 min Scan# 3210

Delta R.T. -0.01 min

Lab File: BE089587.D

Acq: 8 Feb 2015 12:43

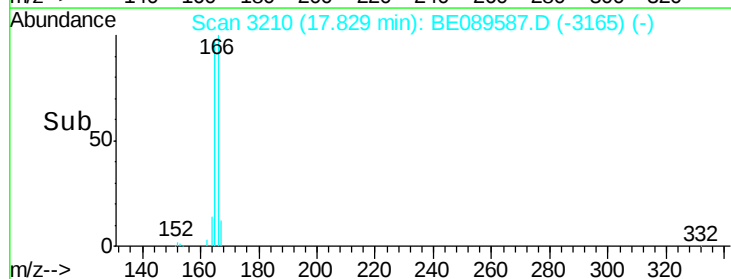
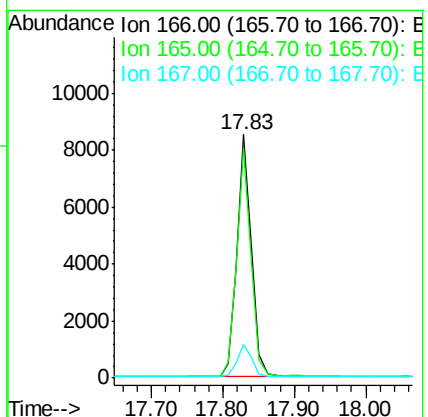
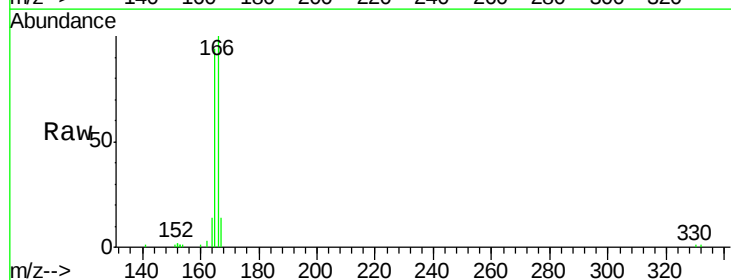
Tgt Ion:166 Resp: 12144

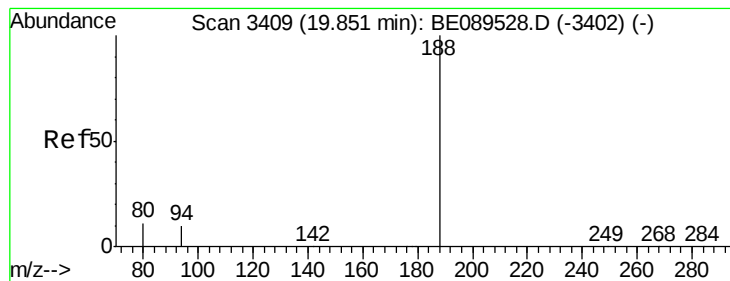
Ion Ratio Lower Upper

166 100

165 93.7 75.5 113.3

167 13.4 10.9 16.3





#11

Phenanthrene-d10

Concen: 5.00 ng

RT: 19.84 min Scan# 3409

Delta R.T. -0.01 min

Lab File: BE089587.D

Acq: 8 Feb 2015 12:43

Instrument :

BNA_E

ClientSampled :

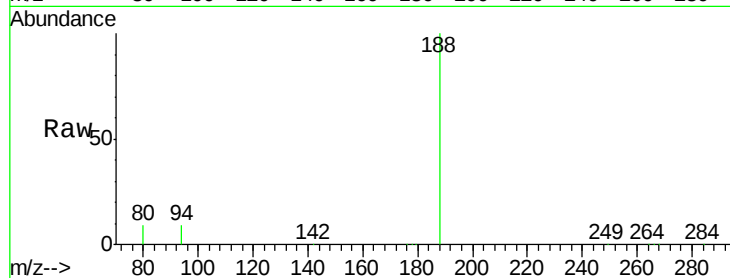
Tgt Ion:188 Resp: 116548

Ion Ratio Lower Upper

188 100

94 8.7 8.4 12.6

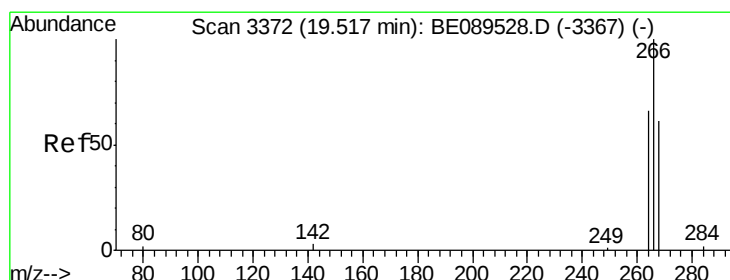
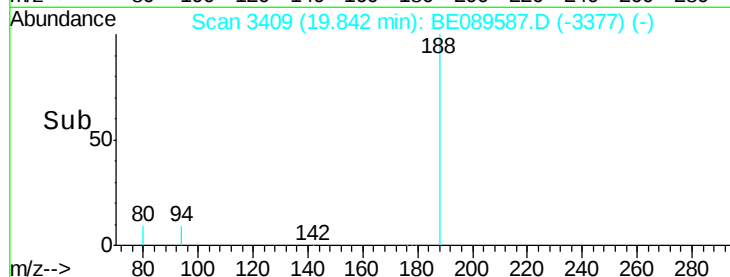
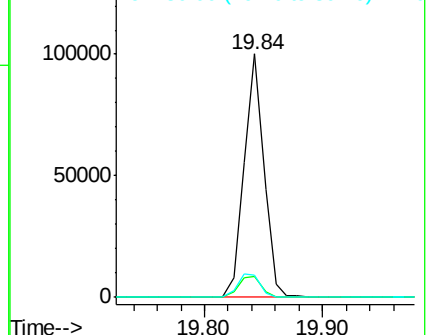
80 9.3 8.6 12.8



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: 1.21 ng

RT: 19.51 min Scan# 3372

Delta R.T. -0.01 min

Lab File: BE089587.D

Acq: 8 Feb 2015 12:43

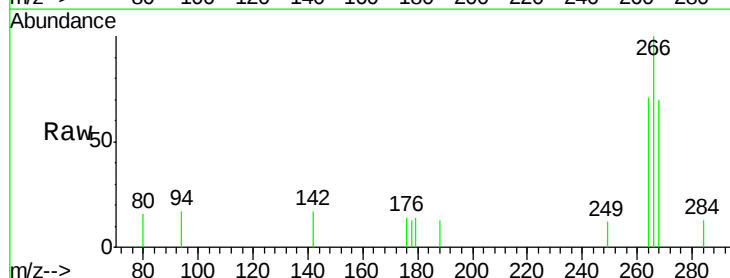
Tgt Ion:266 Resp: 616

Ion Ratio Lower Upper

266 100

268 69.9 57.9 86.9

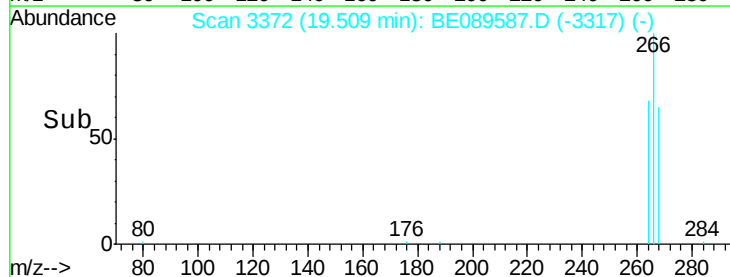
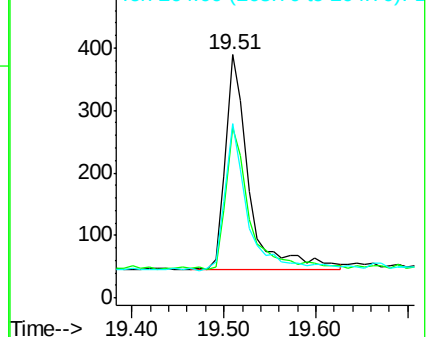
264 71.5 60.2 90.4

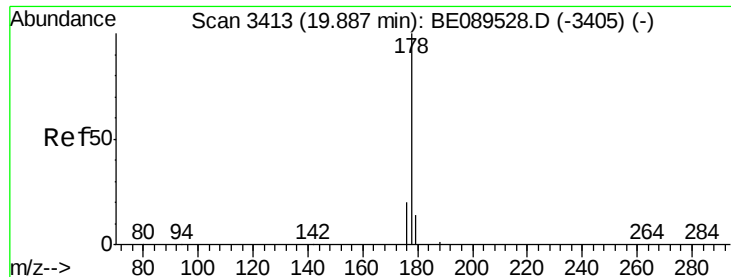


Abundance Ion 265.70 (265.40 to 266.40): E

Ion 268.00 (267.70 to 268.70): E

Ion 264.00 (263.70 to 264.70): E

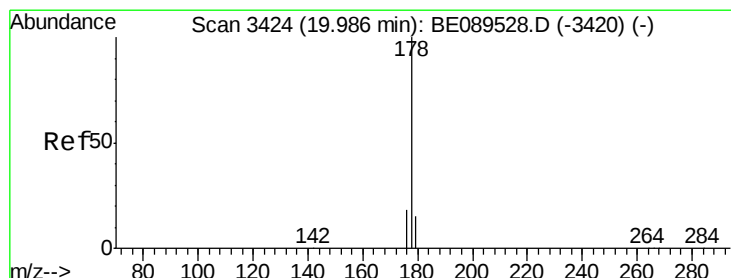
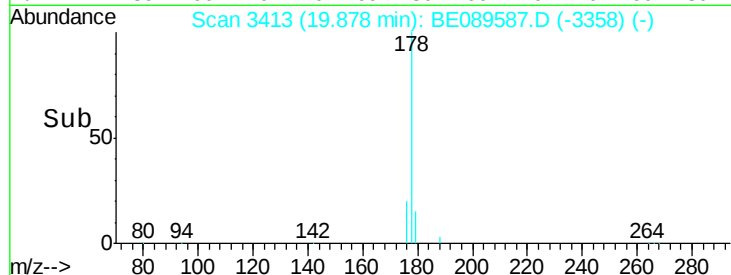
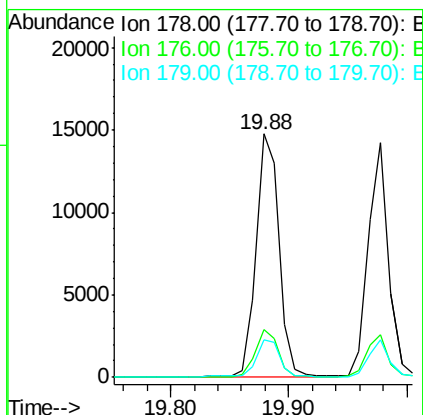
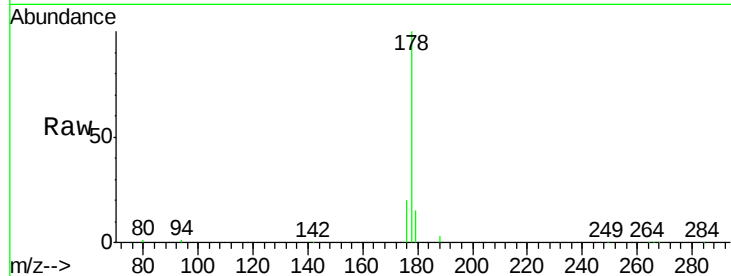




#13
Phenanthrene
Concen: 0.69 ng
RT: 19.88 min Scan# 3413
Delta R.T. -0.01 min
Lab File: BE089587.D
Acq: 8 Feb 2015 12:43

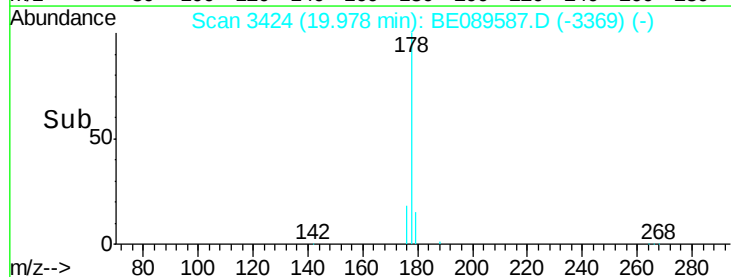
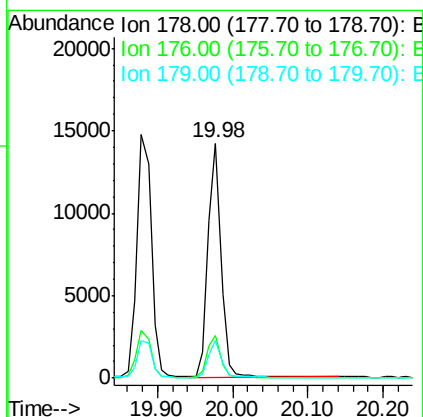
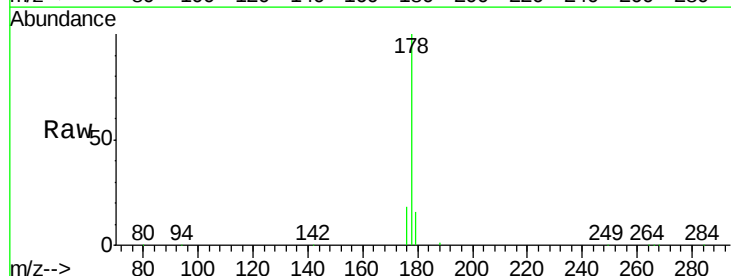
Instrument :
BNA_E
ClientSampleId :

Tgt Ion:178 Resp: 19789
Ion Ratio Lower Upper
178 100
176 19.0 15.4 23.0
179 15.7 12.2 18.2



#14
Anthracene
Concen: 0.70 ng
RT: 19.98 min Scan# 3424
Delta R.T. -0.01 min
Lab File: BE089587.D
Acq: 8 Feb 2015 12:43

Tgt Ion:178 Resp: 17195
Ion Ratio Lower Upper
178 100
176 18.5 14.5 21.7
179 15.0 12.2 18.2

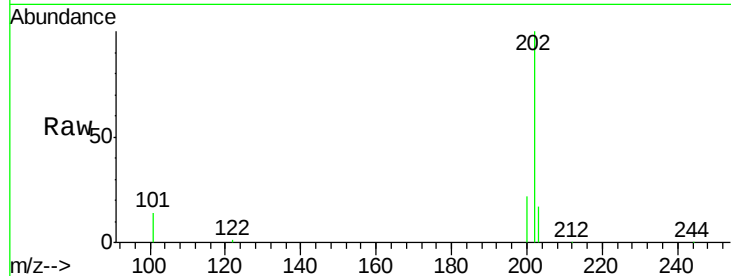




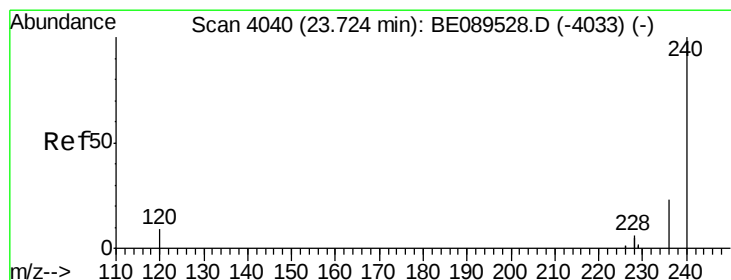
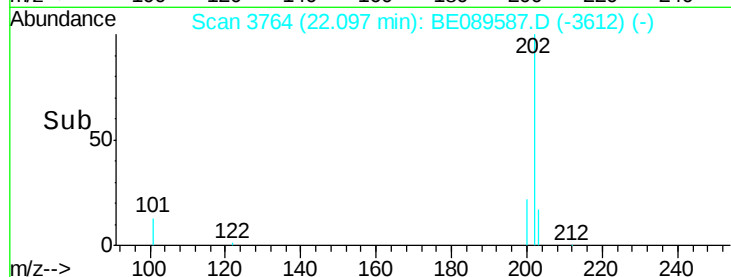
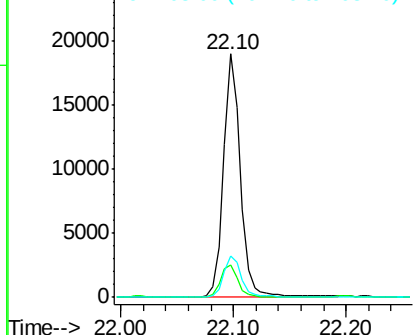
#15
 Fluoranthene
 Concen: 0.72 ng
 RT: 22.10 min Scan# 3764
 Delta R.T. 0.31 min
 Lab File: BE089587.D
 Acq: 8 Feb 2015 12:43

Instrument :
 BNA_E
 ClientSampleId :

Tgt Ion:202 Resp: 19432
 Ion Ratio Lower Upper
 202 100
 101 13.5 11.6 17.4
 203 17.3 13.6 20.4

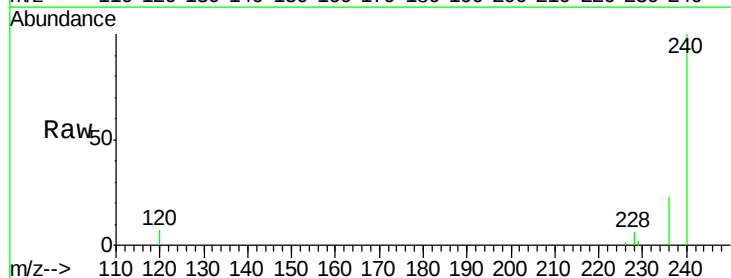


Abundance Ion 202.00 (201.70 to 202.70): E
 Ion 101.00 (100.70 to 101.70): E
 Ion 203.00 (202.70 to 203.70): E

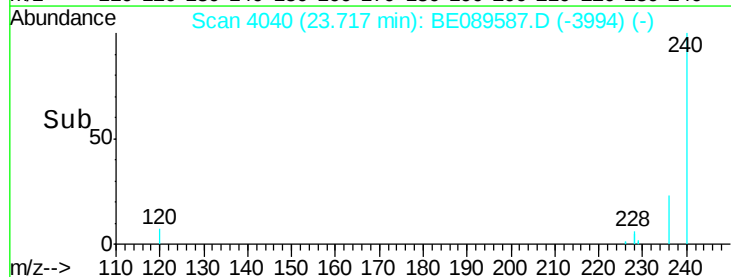
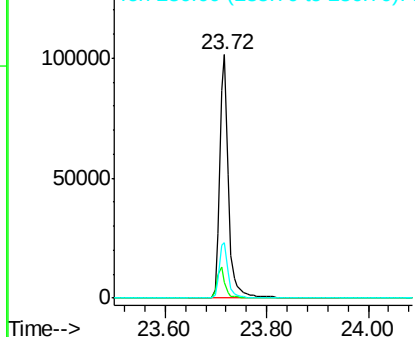


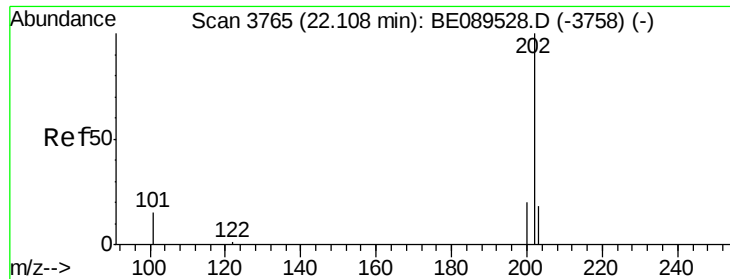
#16
 Chrysene-d12
 Concen: 5.00 ng
 RT: 23.72 min Scan# 4040
 Delta R.T. -0.01 min
 Lab File: BE089587.D
 Acq: 8 Feb 2015 12:43

Tgt Ion:240 Resp: 121478
 Ion Ratio Lower Upper
 240 100
 120 6.6 7.2 10.8#
 236 23.0 18.5 27.7



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

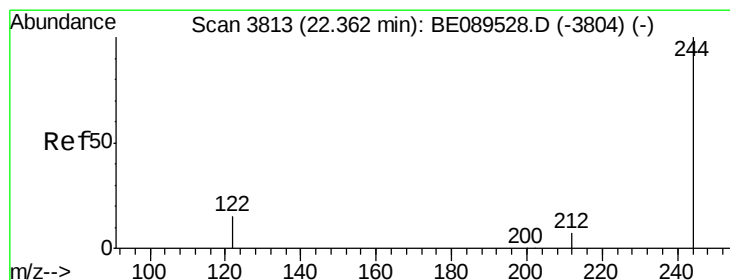
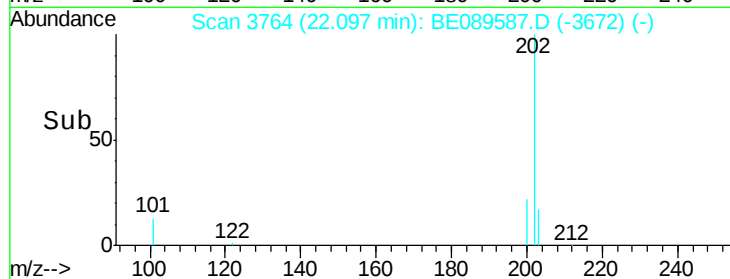
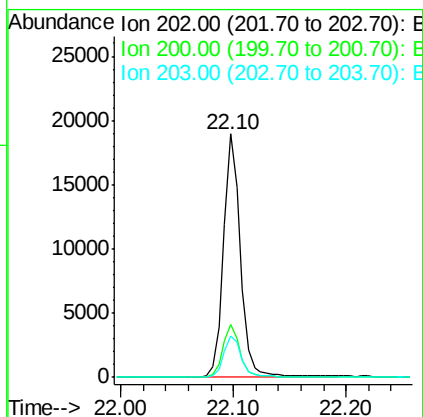
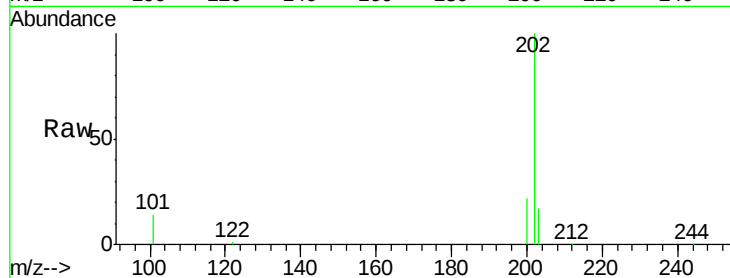




#17
 Pyrene
 Concen: 0.75 ng
 RT: 22.10 min Scan# 3764
 Delta R.T. -0.01 min
 Lab File: BE089587.D
 Acq: 8 Feb 2015 12:43

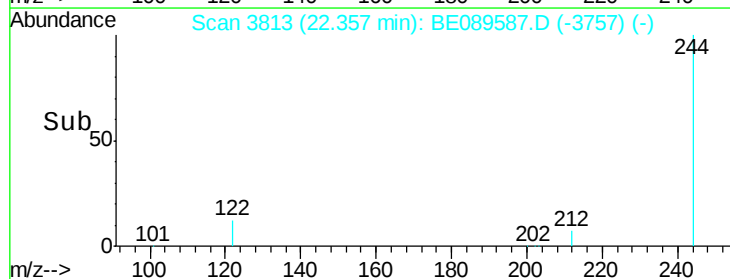
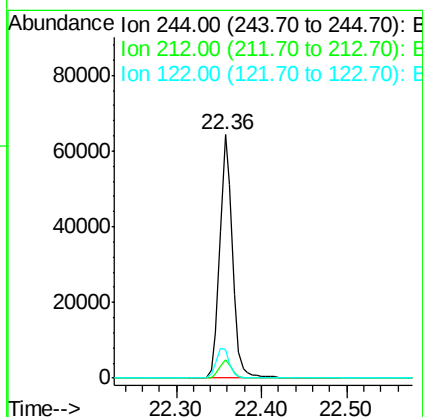
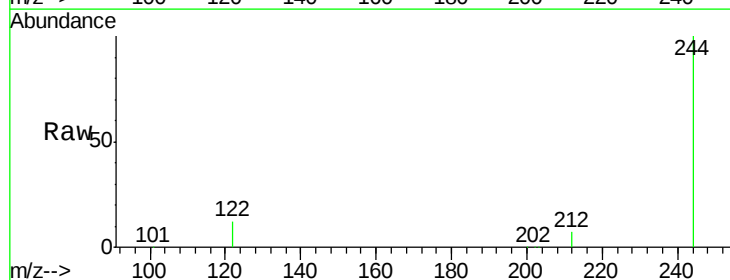
Instrument :
 BNA_E
 ClientSampleId :

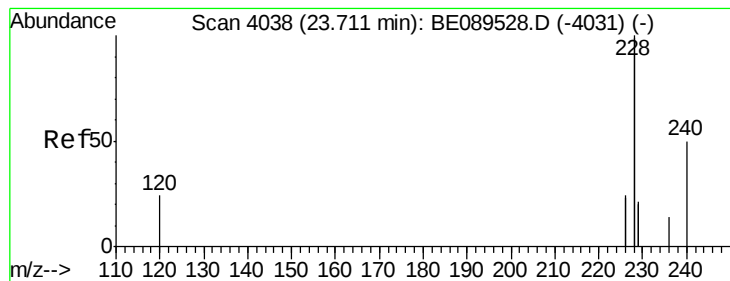
Tgt Ion:202 Resp: 19432
 Ion Ratio Lower Upper
 202 100
 200 21.5 16.3 24.5
 203 17.3 13.5 20.3



#18
 Terphenyl-d14
 Concen: 4.07 ng
 RT: 22.36 min Scan# 3813
 Delta R.T. -0.01 min
 Lab File: BE089587.D
 Acq: 8 Feb 2015 12:43

Tgt Ion:244 Resp: 65173
 Ion Ratio Lower Upper
 244 100
 212 7.4 5.8 8.8
 122 11.8 12.6 19.0#





#19

Benzo(a)anthracene

Concen: 0.61 ng

RT: 23.70 min Scan# 4038

Delta R.T. -0.01 min

Lab File: BE089587.D

Acq: 8 Feb 2015 12:43

Instrument :

BNA_E

ClientSampleId :

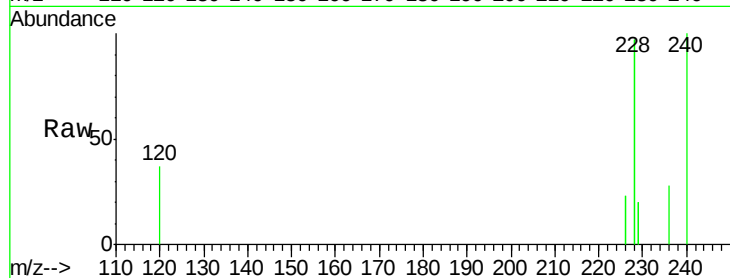
Tgt Ion:228 Resp: 65515

Ion Ratio Lower Upper

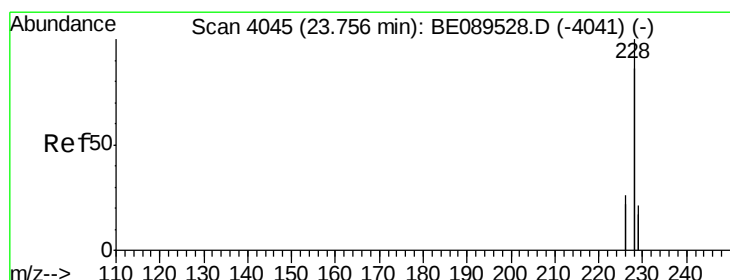
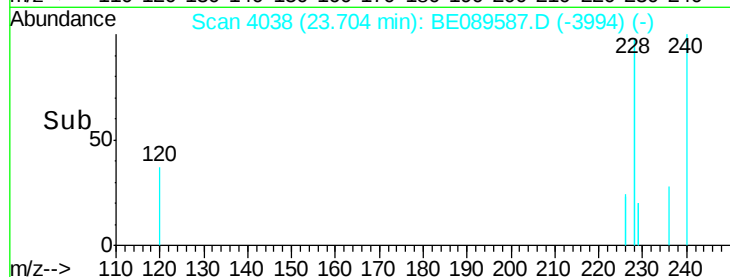
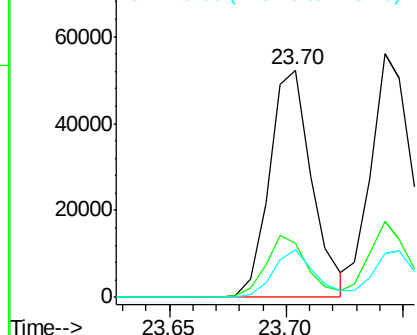
228 100

226 24.1 19.0 28.4

229 20.9 16.8 25.2



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: 0.73 ng

RT: 23.74 min Scan# 4044

Delta R.T. -0.01 min

Lab File: BE089587.D

Acq: 8 Feb 2015 12:43

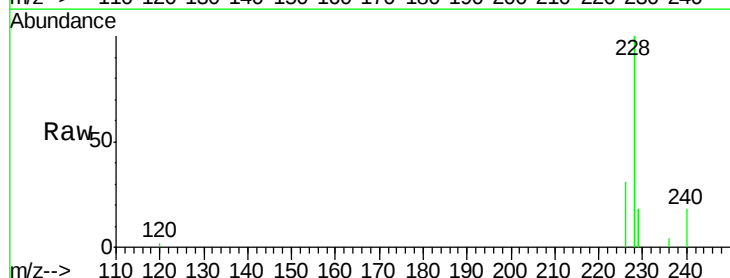
Tgt Ion:228 Resp: 79786

Ion Ratio Lower Upper

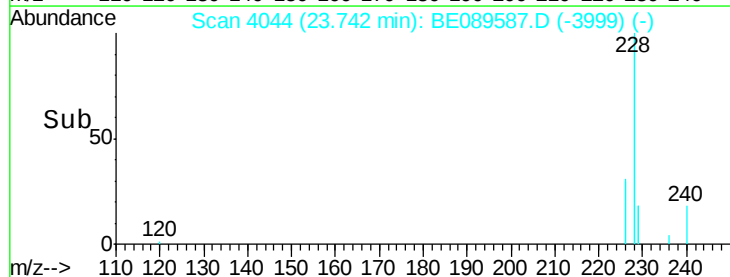
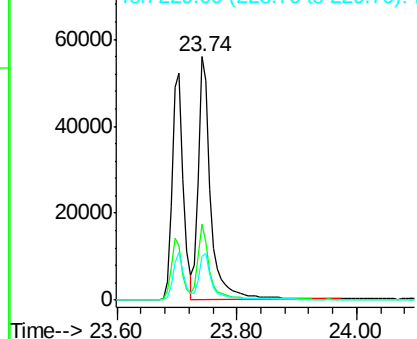
228 100

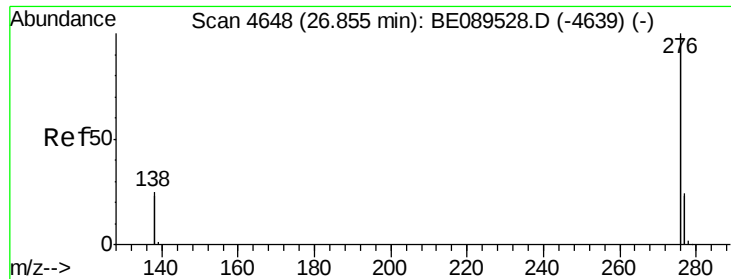
226 31.1 21.0 31.4

229 18.2 16.7 25.1



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: 0.34 ng

RT: 26.84 min Scan# 4647

Delta R.T. -0.01 min

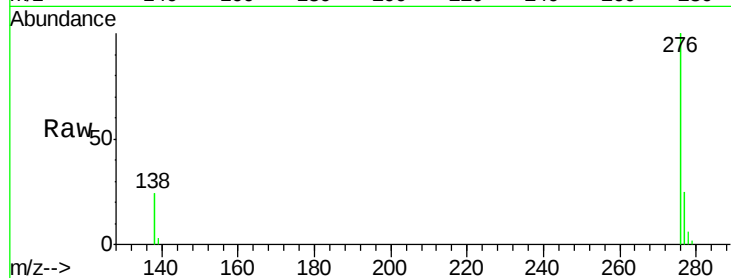
Lab File: BE089587.D

Acq: 8 Feb 2015 12:43

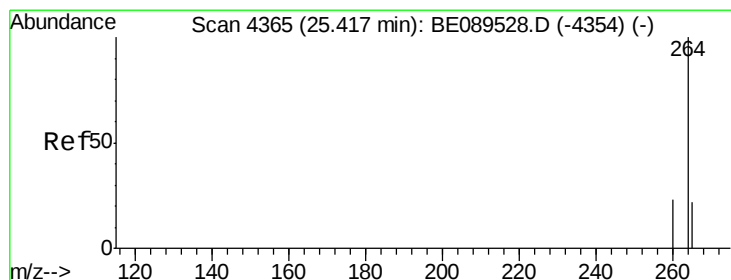
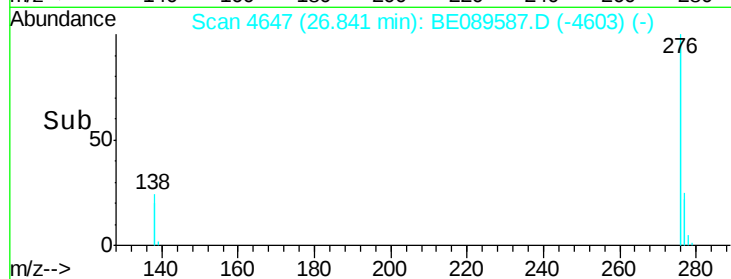
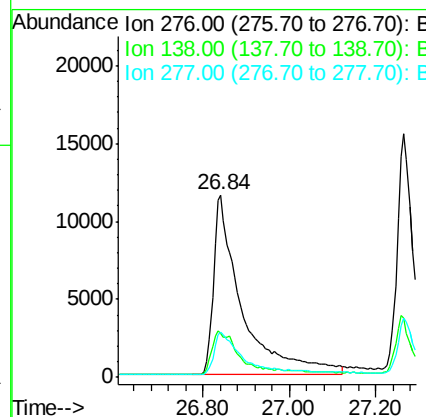
Instrument :

BNA_E

ClientSampleId :



Tgt Ion:	276	Resp:	52590
Ion	Ratio	Lower	Upper
276	100		
138	22.6	23.0	34.4#
277	22.9	19.9	29.9



#22

Perylene-d12

Concen: 5.00 ng

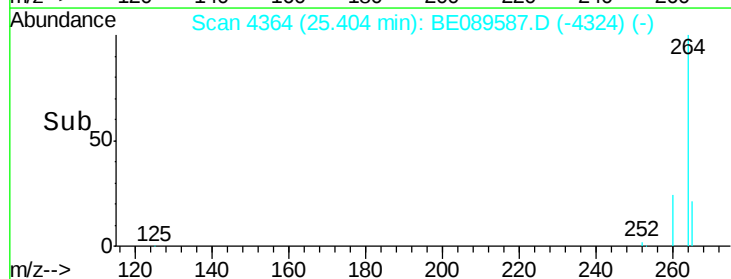
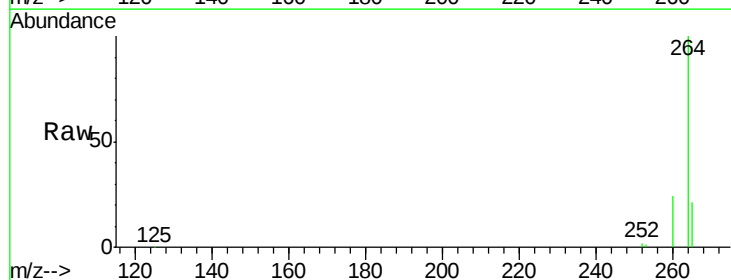
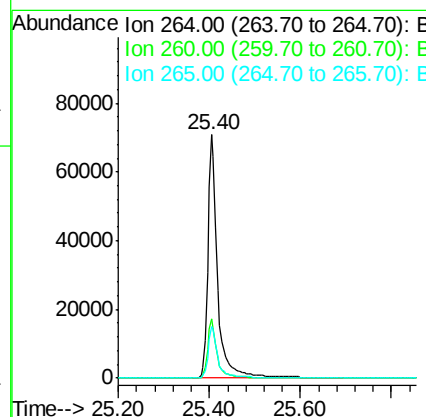
RT: 25.40 min Scan# 4364

Delta R.T. -0.01 min

Lab File: BE089587.D

Acq: 8 Feb 2015 12:43

Tgt Ion:	264	Resp:	105729
Ion	Ratio	Lower	Upper
264	100		
260	24.3	18.7	28.1
265	21.0	17.5	26.3





#23

Benzo(b)fluoranthene

Concen: 0.53 ng

RT: 24.97 min Scan# 4268

Delta R.T. -0.01 min

Lab File: BE089587.D

Acq: 8 Feb 2015 12:43

Instrument :

BNA_E

ClientSampleId :

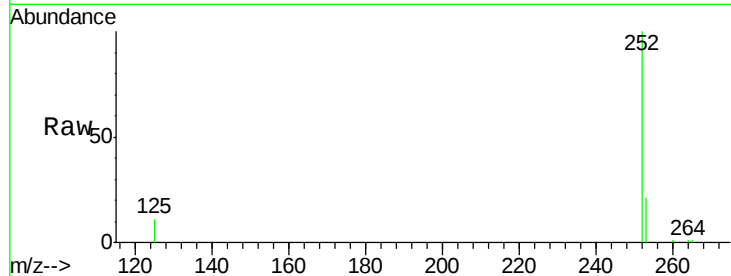
Tgt Ion:252 Resp: 10883

Ion Ratio Lower Upper

252 100

253 21.2 17.4 26.0

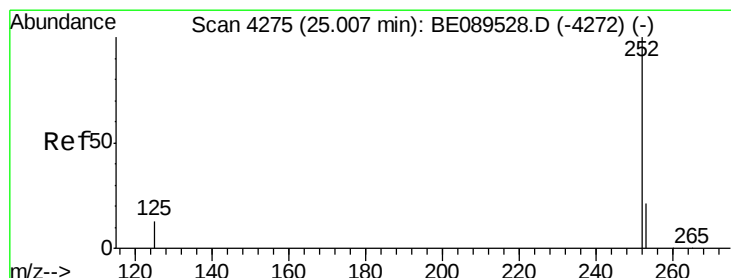
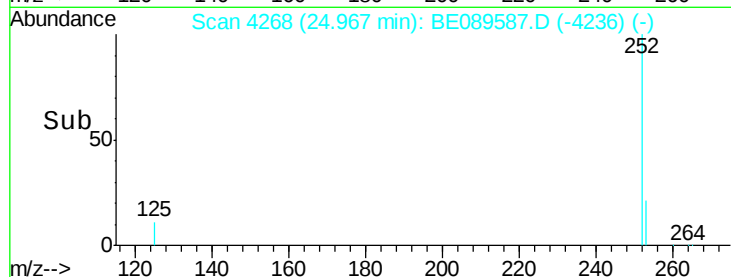
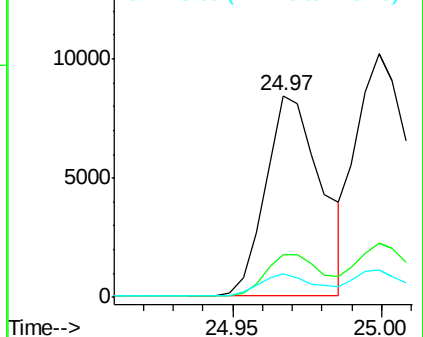
125 11.4 10.4 15.6



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#24

Benzo(k)fluoranthene

Concen: 0.74 ng

RT: 25.00 min Scan# 4275

Delta R.T. -0.01 min

Lab File: BE089587.D

Acq: 8 Feb 2015 12:43

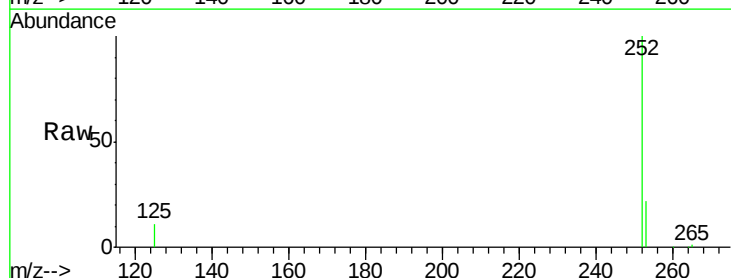
Tgt Ion:252 Resp: 18785

Ion Ratio Lower Upper

252 100

253 22.0 17.2 25.8

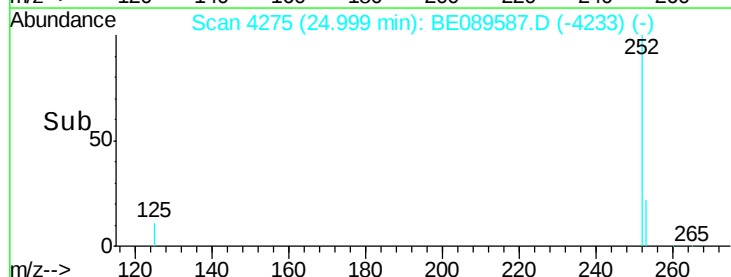
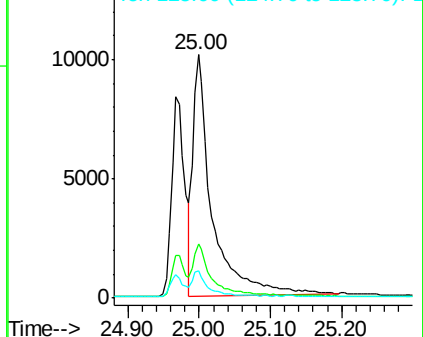
125 11.5 10.6 15.8



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

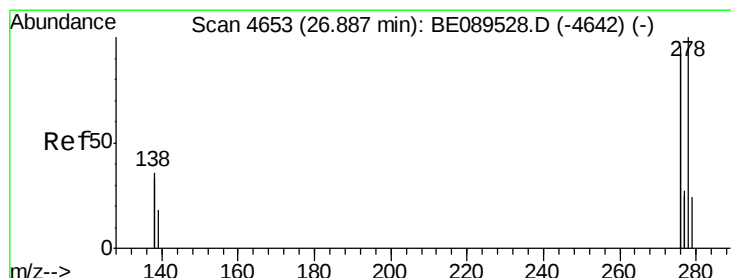
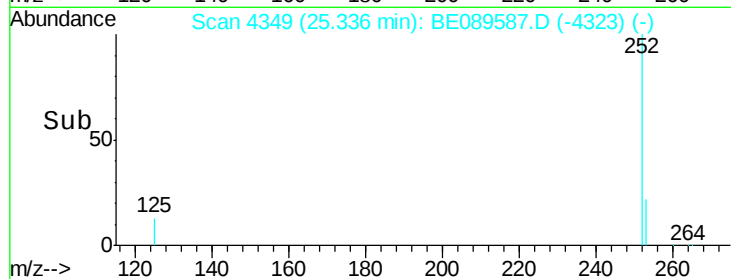
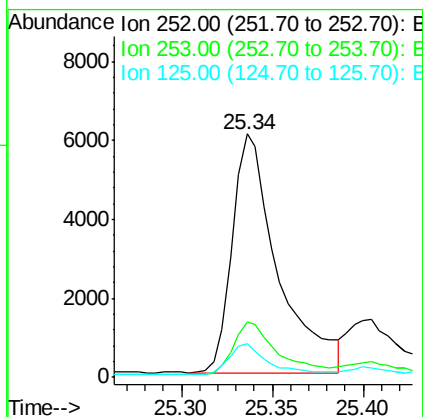
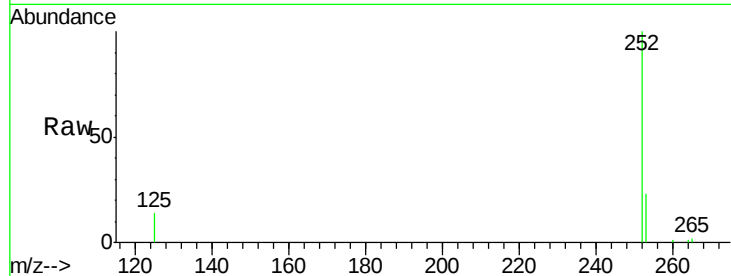




#25
Benzo(a)pyrene
Concen: 0.52 ng
RT: 25.34 min Scan# 4349
Delta R.T. -0.01 min
Lab File: BE089587.D
Acq: 8 Feb 2015 12:43

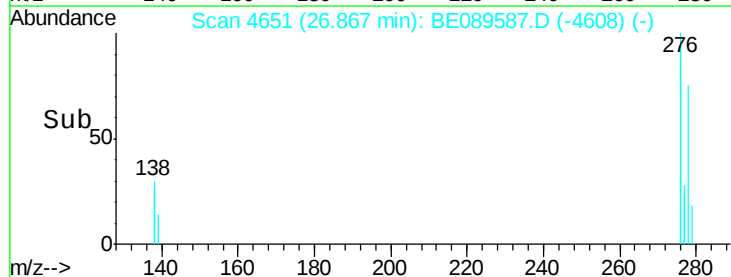
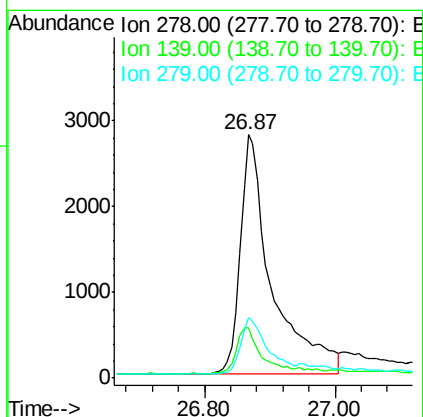
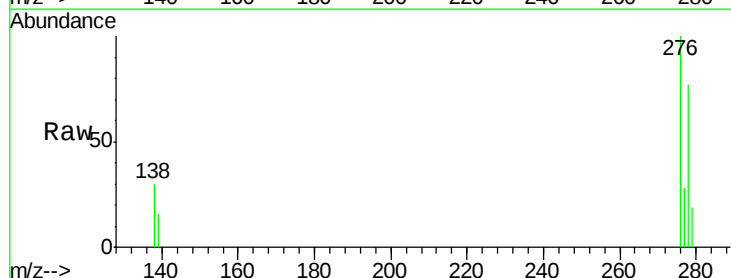
Instrument :
BNA_E
ClientSampleId :

Tgt Ion: 252 Resp: 10565
Ion Ratio Lower Upper
252 100
253 22.6 17.8 26.6
125 13.6 11.4 17.2



#26
Dibenzo(a,h)anthracene
Concen: 0.37 ng
RT: 26.87 min Scan# 4651
Delta R.T. -0.02 min
Lab File: BE089587.D
Acq: 8 Feb 2015 12:43

Tgt Ion: 278 Resp: 9392
Ion Ratio Lower Upper
278 100
139 20.5 15.7 23.5
279 25.0 19.5 29.3





#27

Benzo(g,h,i)perylene

Concen: 0.48 ng

RT: 27.26 min Scan# 4712

Delta R.T. -0.02 min

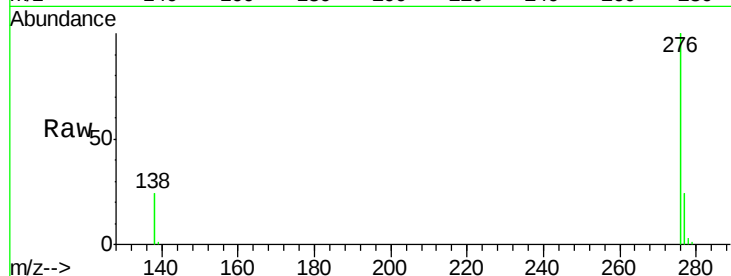
Lab File: BE089587.D

Acq: 8 Feb 2015 12:43

Instrument :

BNA_E

ClientSampleId :



Tgt Ion: 276 Resp: 49579

Ion Ratio Lower Upper

276 100

277 24.4 18.6 27.8

138 24.4 20.9 31.3

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

