

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE020615\
 Data File : BE089561.D
 Acq On : 7 Feb 2015 15:53
 Operator : TP/IZ
 Sample : MDL-07-W
 Misc : MDL-WATER-0.1/0.2
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 MDL-BLK-W

Quant Time: Feb 09 00:18:39 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	49399	5.00	ng	0.00
2) Naphthalene-d8	12.33	136	179693	5.00	ng	0.00
6) Acenaphthene-d10	16.51	164	72700	5.00	ng	0.00
11) Phenanthrene-d10	19.84	188	103183	5.00	ng	0.00
16) Chrysene-d12	23.72	240	124325	5.00	ng	0.00
22) Perylene-d12	25.41	264	149381	5.00	ng	0.00

System Monitoring Compounds						
3) Nitrobenzene-d5	10.69	82	112341	9.41	ng	0.00
7) 2-Fluorobiphenyl	14.96	172	157767	8.13	ng	0.00
18) Terphenyl-d14	22.36	244	140712	8.58	ng	0.00

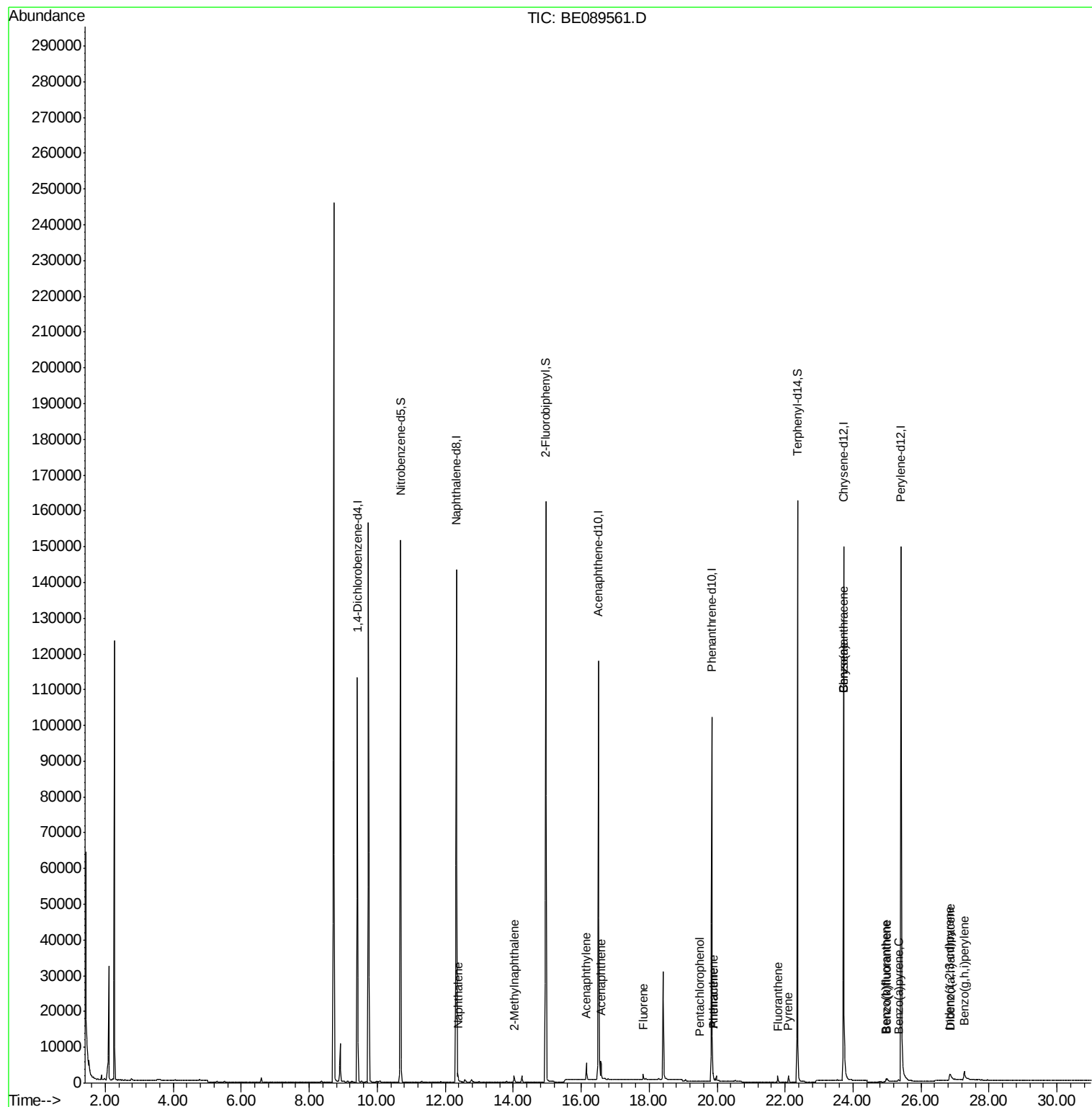
Target Compounds						Qvalue
4) Naphthalene	12.38	128	2881	0.07	ng	# 94
5) 2-Methylnaphthalene	14.03	142	1368	0.06	ng	98
8) Acenaphthylene	16.16	152	6361	0.05	ng	99
9) Acenaphthene	16.58	154	1132	0.06	ng	91
10) Fluorene	17.83	166	1148	0.06	ng	100
12) Pentachlorophenol	19.49	266	12	0.55	ng	# 77
13) Phenanthrene	19.89	178	1727	0.07	ng	99
14) Anthracene	19.89	178	1727	0.08	ng	98
15) Fluoranthene	21.78	202	1279	0.05	ng	99
17) Pyrene	22.10	202	1357	0.05	ng	97
19) Benzo(a)anthracene	23.70	228	6575	0.06	ng	# 92
20) Chrysene	23.70	228	6575	0.06	ng	95
21) Indeno(1,2,3-cd)pyrene	26.84	276	4810	0.03	ng	# 86
23) Benzo(b)fluoranthene	24.97	252	799	0.03	ng	# 81
24) Benzo(k)fluoranthene	25.00	252	1593	0.04	ng	# 87
25) Benzo(a)pyrene	25.34	252	957	0.03	ng	# 80
26) Dibenzo(a,h)anthracene	26.88	278	815	0.02	ng	# 75
27) Benzo(g,h,i)perylene	27.27	276	6655	0.05	ng	# 78

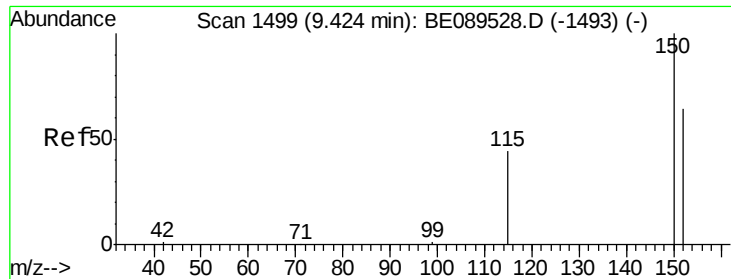
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: BE089561.D

Acq: 7 Feb 2015 15:53

Instrument :

BNA_E

ClientSampleId :

MDL-BLK-W

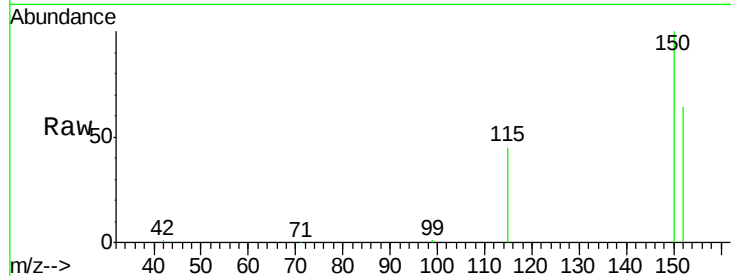
Tgt Ion:152 Resp: 49399

Ion Ratio Lower Upper

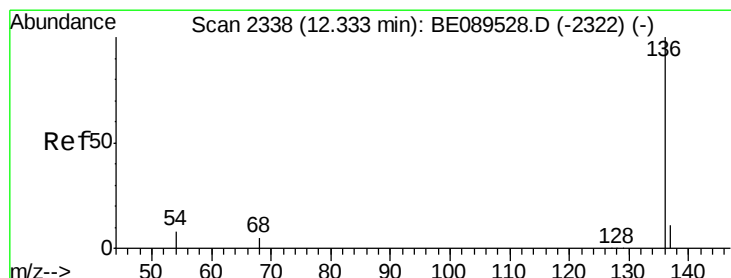
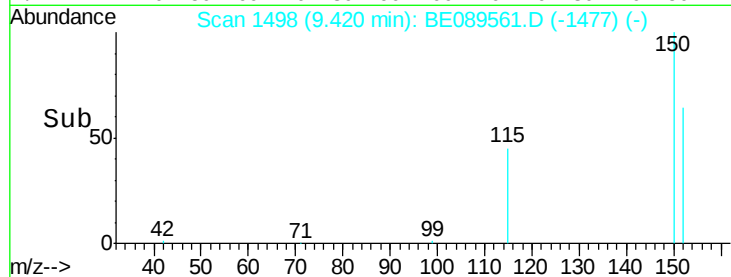
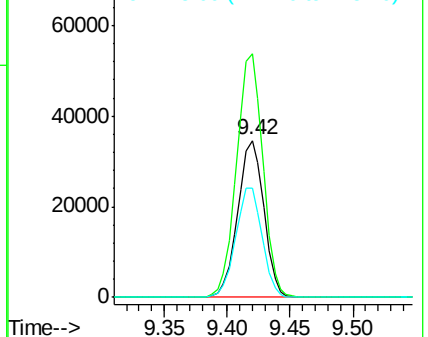
152 100

150 155.3 125.7 188.5

115 69.5 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: 12.33 min Scan# 2337

Delta R.T. -0.00 min

Lab File: BE089561.D

Acq: 7 Feb 2015 15:53

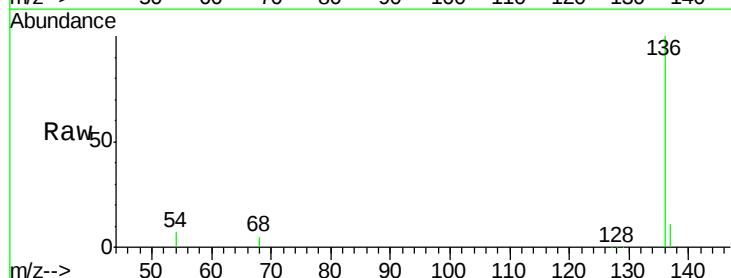
Tgt Ion:136 Resp: 179693

Ion Ratio Lower Upper

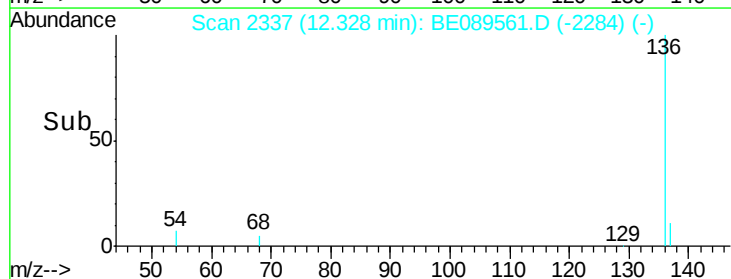
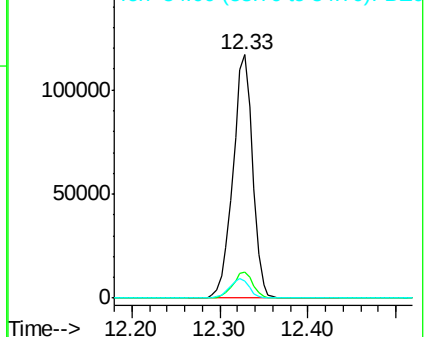
136 100

137 10.8 8.7 13.1

54 7.0 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: 9.41 ng

RT: 10.69 min Scan# 1894

Delta R.T. -0.01 min

Lab File: BE089561.D

Acq: 7 Feb 2015 15:53

Instrument :

BNA_E

ClientSampleId :

MDL-BLK-W

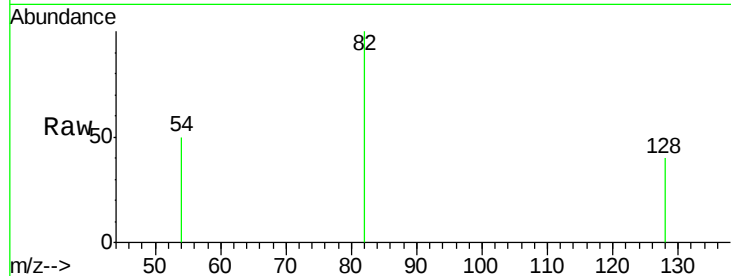
Tgt Ion: 82 Resp: 112341

Ion Ratio Lower Upper

82 100

128 39.7 30.2 45.4

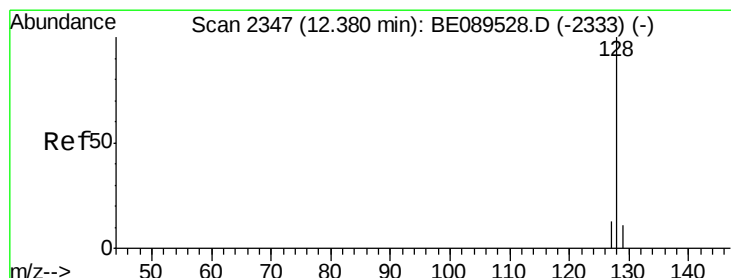
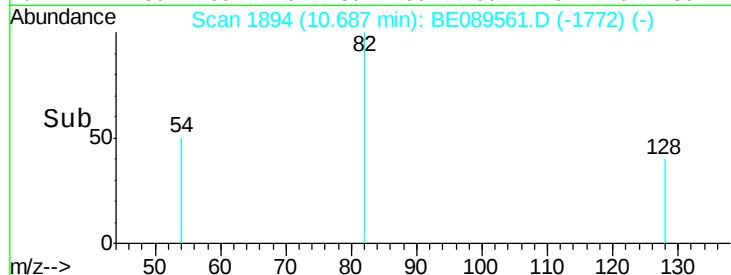
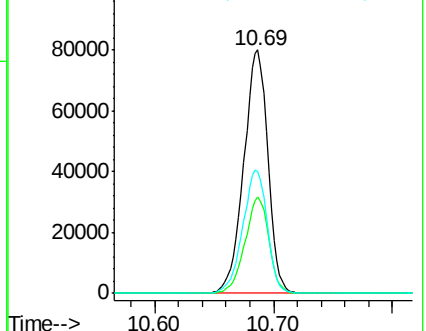
54 50.2 40.6 60.8



Abundance Ion 82.00 (81.70 to 82.70): BE089528.D (-1876) (-)

Ion 128.00 (127.70 to 128.70): BE089528.D (-1876) (-)

Ion 54.00 (53.70 to 54.70): BE089528.D (-1876) (-)



#4

Naphthalene

Concen: 0.07 ng

RT: 12.38 min Scan# 2346

Delta R.T. -0.00 min

Lab File: BE089561.D

Acq: 7 Feb 2015 15:53

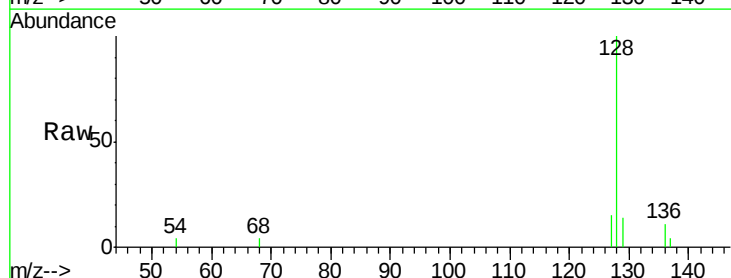
Tgt Ion: 128 Resp: 2881

Ion Ratio Lower Upper

128 100

129 13.9 9.1 13.7#

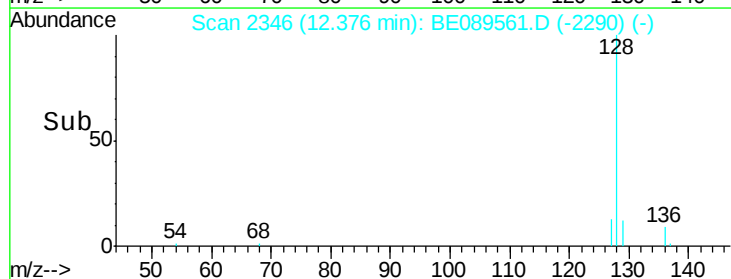
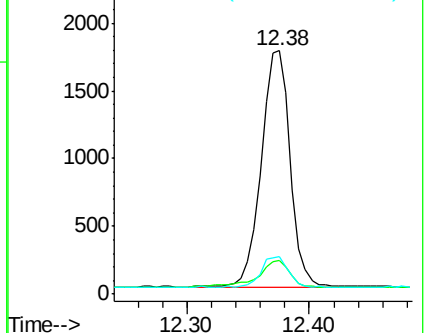
127 15.5 10.5 15.7



Abundance Ion 128.00 (127.70 to 128.70): BE089528.D (-2333) (-)

Ion 129.00 (128.70 to 129.70): BE089528.D (-2333) (-)

Ion 127.00 (126.70 to 127.70): BE089528.D (-2333) (-)





#5

2-Methylnaphthalene

Concen: 0.06 ng

RT: 14.03 min Scan# 2678

Delta R.T. -0.00 min

Lab File: BE089561.D

Acq: 7 Feb 2015 15:53

Instrument :

BNA_E

ClientSampleId :

MDL-BLK-W

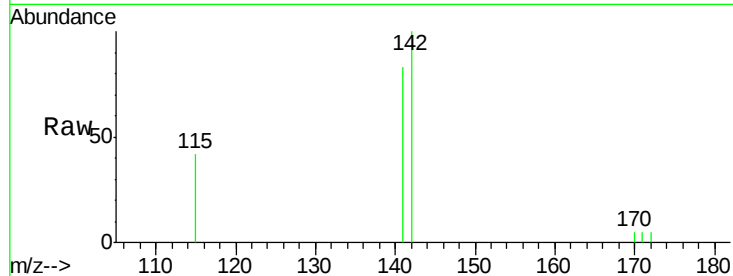
Tgt Ion:142 Resp: 1368

Ion Ratio Lower Upper

142 100

141 83.4 67.0 100.6

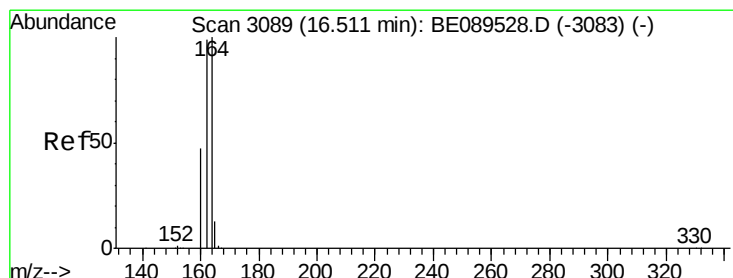
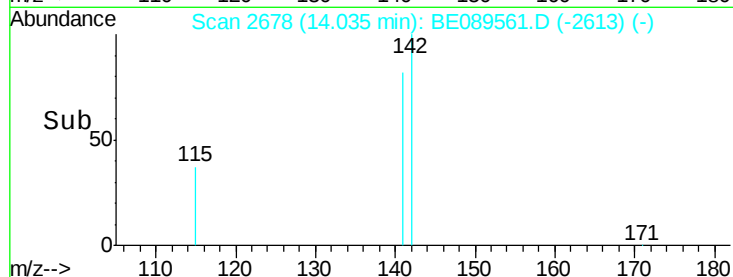
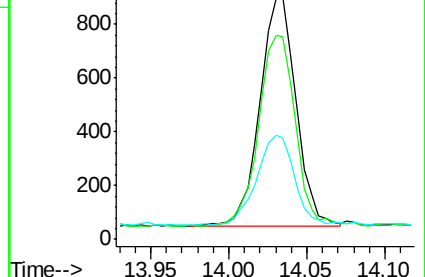
115 41.5 30.6 45.8



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



#6

Acenaphthene-d10

Concen: 5.00 ng

RT: 16.51 min Scan# 3089

Delta R.T. 0.00 min

Lab File: BE089561.D

Acq: 7 Feb 2015 15:53

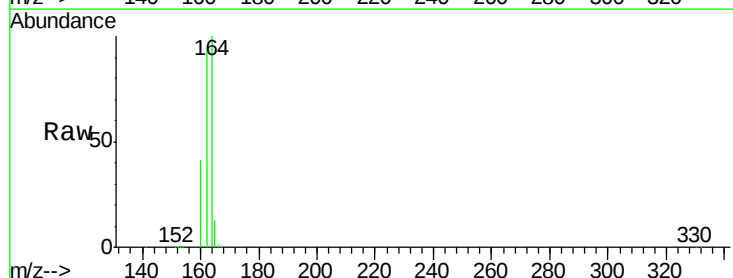
Tgt Ion:164 Resp: 72700

Ion Ratio Lower Upper

164 100

162 93.5 79.5 119.3

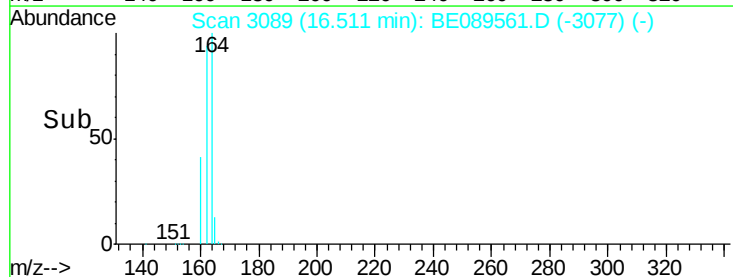
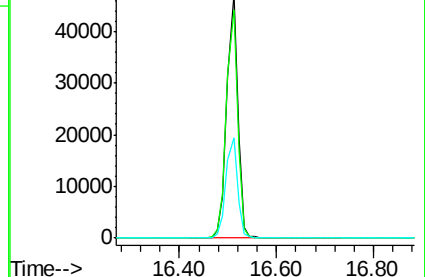
160 41.4 37.6 56.4



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





#7

2-Fluorobiphenyl

Concen: 8.13 ng

RT: 14.96 min Scan# 2882

Delta R.T. -0.00 min

Lab File: BE089561.D

Acq: 7 Feb 2015 15:53

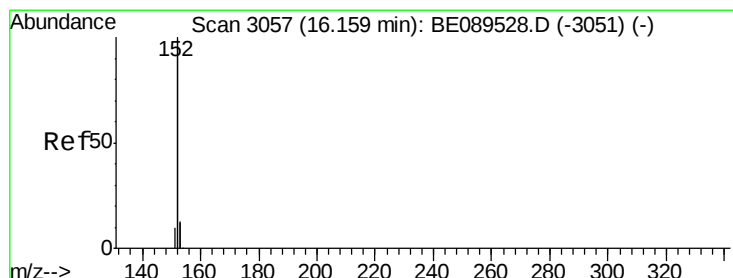
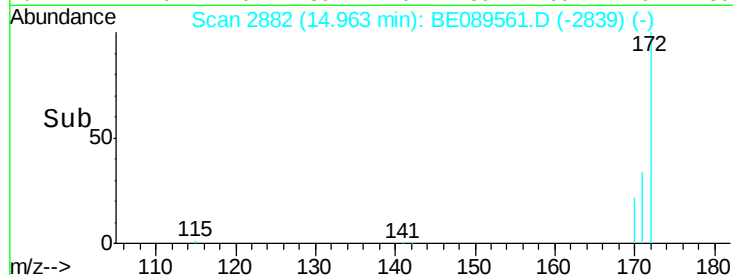
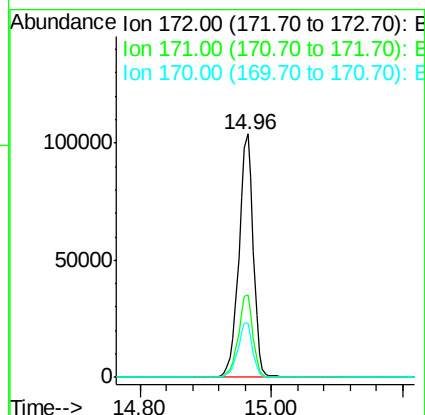
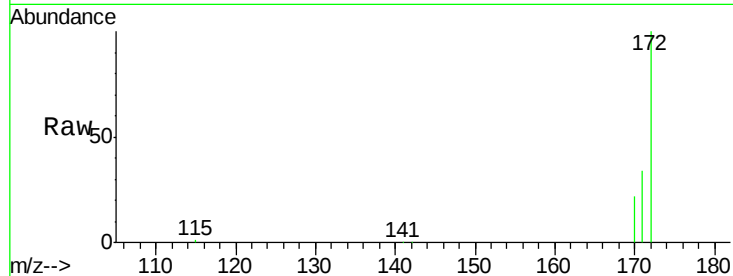
Instrument :

BNA_E

ClientSampleId :

MDL-BLK-W

Tgt Ion:	172	Resp:	157767
Ion	Ratio	Lower	Upper
172	100		
171	33.6	27.7	41.5
170	22.0	18.3	27.5



#8

Acenaphthylene

Concen: 0.05 ng

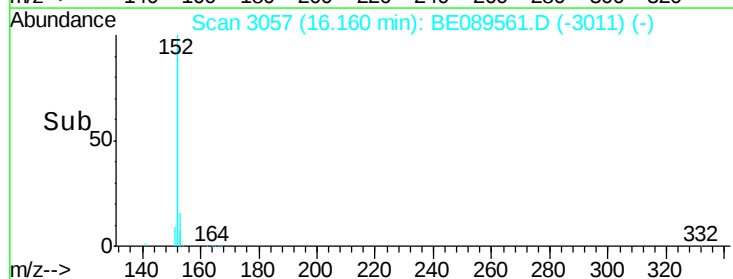
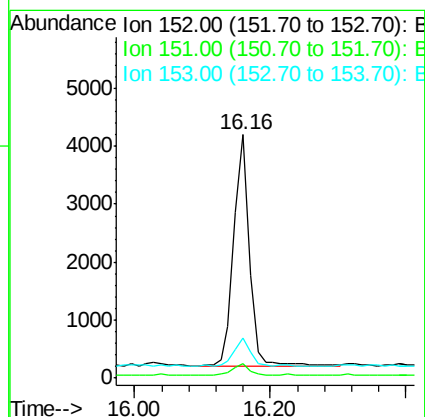
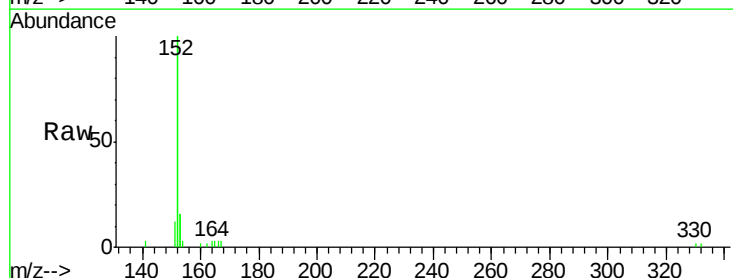
RT: 16.16 min Scan# 3057

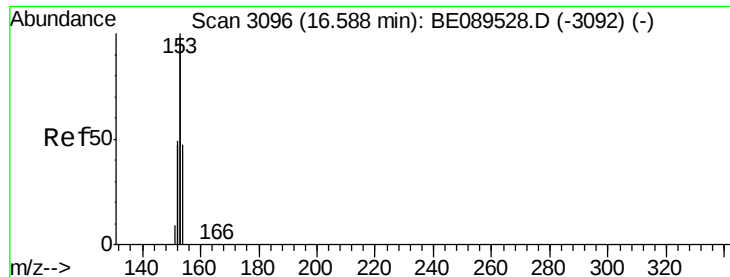
Delta R.T. 0.00 min

Lab File: BE089561.D

Acq: 7 Feb 2015 15:53

Tgt Ion:	152	Resp:	6361
Ion	Ratio	Lower	Upper
152	100		
151	5.0	4.0	6.0
153	13.7	10.6	15.8





#9

Acenaphthene

Concen: 0.06 ng

RT: 16.58 min Scan# 3095

Delta R.T. -0.01 min

Lab File: BE089561.D

Acq: 7 Feb 2015 15:53

Instrument :

BNA_E

ClientSampleId :

MDL-BLK-W

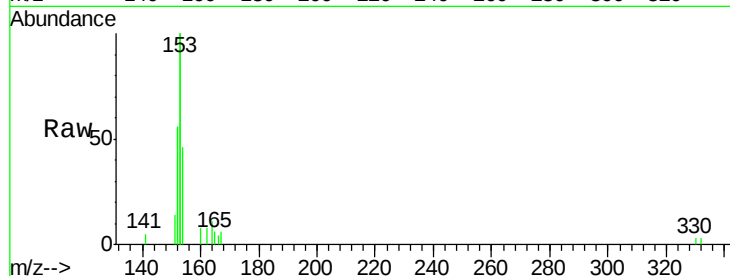
Tgt Ion:154 Resp: 1132

Ion Ratio Lower Upper

154 100

153 432.4 340.8 511.2

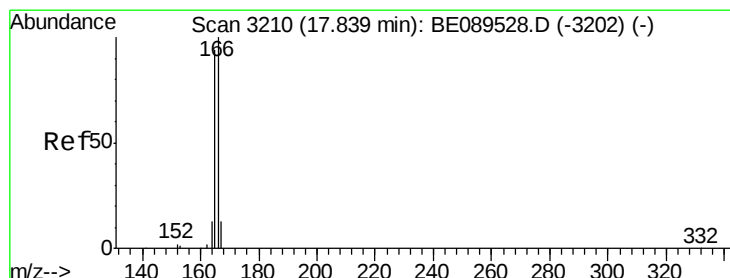
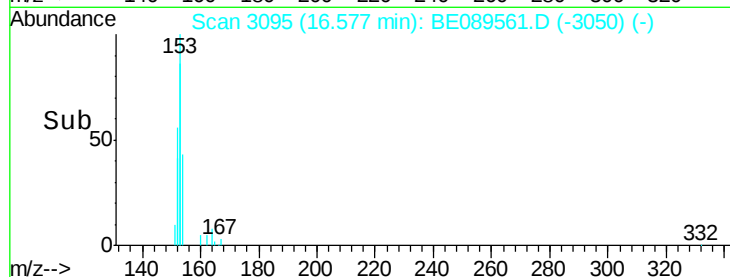
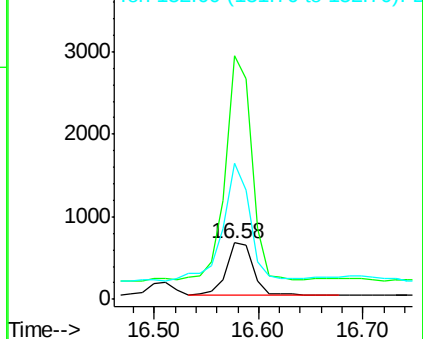
152 240.8 165.5 248.3



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: 17.83 min Scan# 3209

Delta R.T. -0.01 min

Lab File: BE089561.D

Acq: 7 Feb 2015 15:53

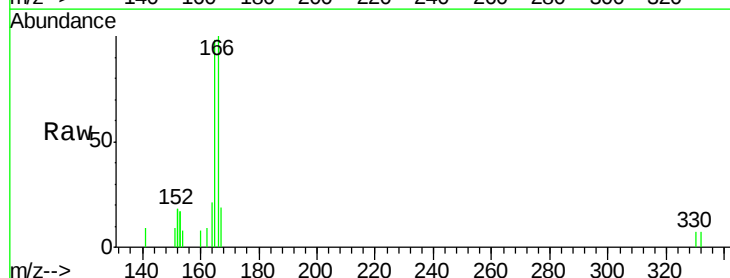
Tgt Ion:166 Resp: 1148

Ion Ratio Lower Upper

166 100

165 94.4 75.5 113.3

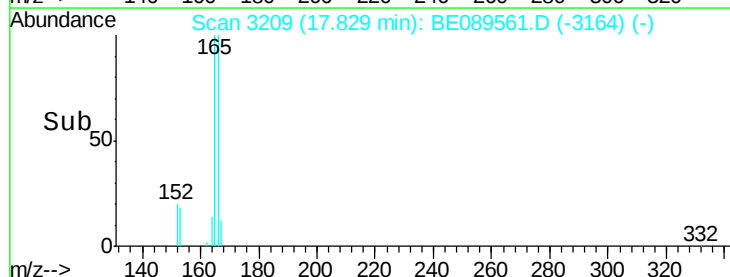
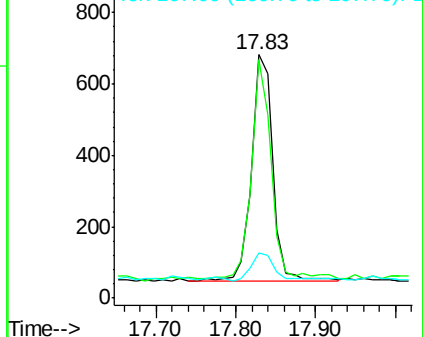
167 14.2 10.9 16.3

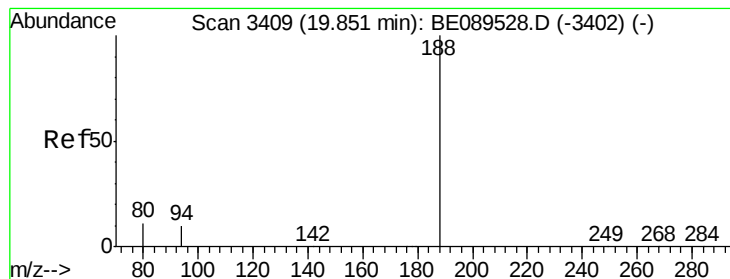


Abundance Ion 166.00 (165.70 to 166.70): E

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: 19.84 min Scan# 3408

Delta R.T. -0.01 min

Lab File: BE089561.D

Acq: 7 Feb 2015 15:53

Instrument :

BNA_E

ClientSampled :

MDL-BLK-W

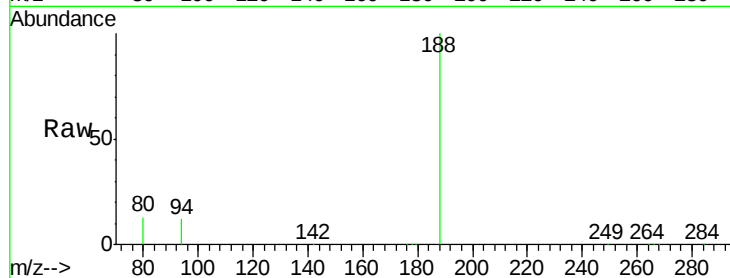
Tgt Ion:188 Resp: 103183

Ion Ratio Lower Upper

188 100

94 11.5 8.4 12.6

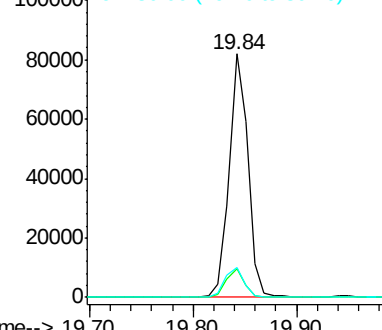
80 12.5 8.6 12.8



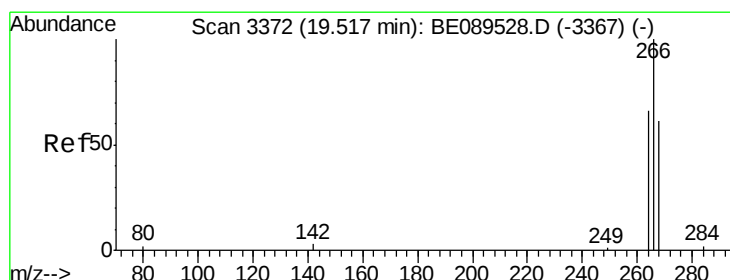
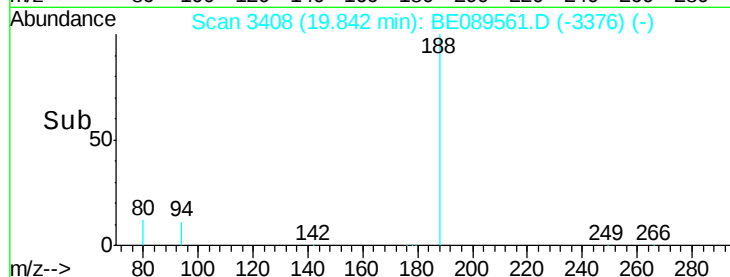
Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0



Time--> 19.70 19.80 19.90



#12

Pentachlorophenol

Concen: 0.55 ng

RT: 19.49 min Scan# 3369

Delta R.T. -0.03 min

Lab File: BE089561.D

Acq: 7 Feb 2015 15:53

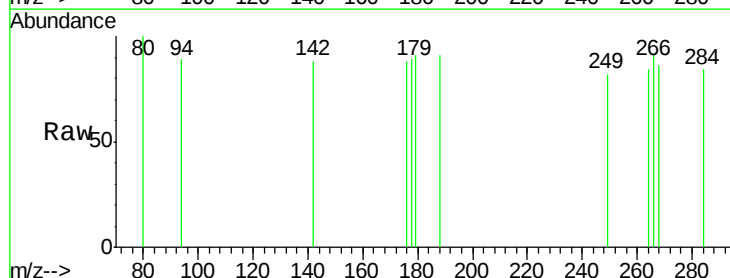
Tgt Ion:266 Resp: 12

Ion Ratio Lower Upper

266 100

268 94.1 57.9 86.9#

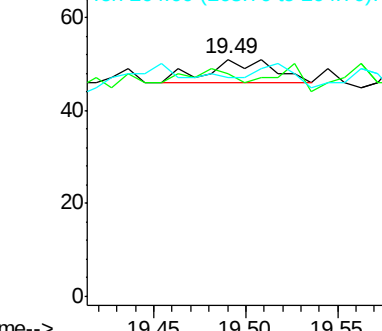
264 92.2 60.2 90.4#



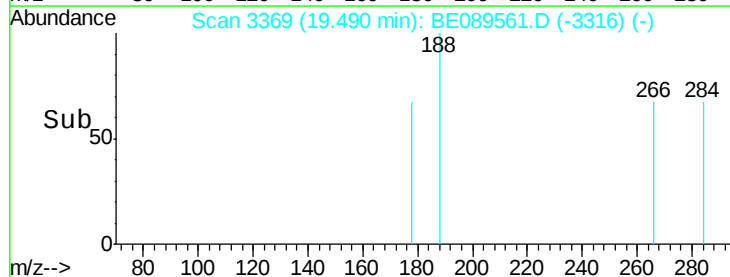
Abundance Ion 265.70 (265.40 to 266.40): E

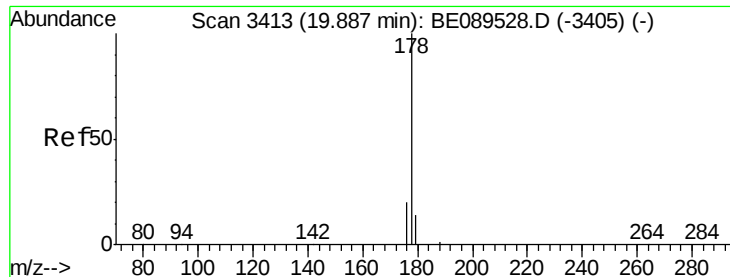
Ion 268.00 (267.70 to 268.70): E

Ion 264.00 (263.70 to 264.70): E



Time--> 19.45 19.50 19.55





#13

Phenanthrene

Concen: 0.07 ng

RT: 19.89 min Scan# 3413

Delta R.T. 0.00 min

Lab File: BE089561.D

Acq: 7 Feb 2015 15:53

Instrument :

BNA_E

ClientSampleId :

MDL-BLK-W

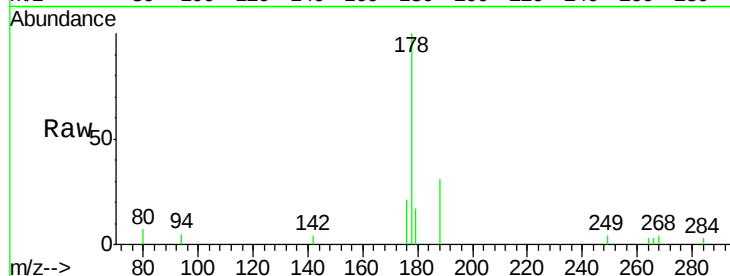
Tgt Ion:178 Resp: 1727

Ion Ratio Lower Upper

178 100

176 20.1 15.4 23.0

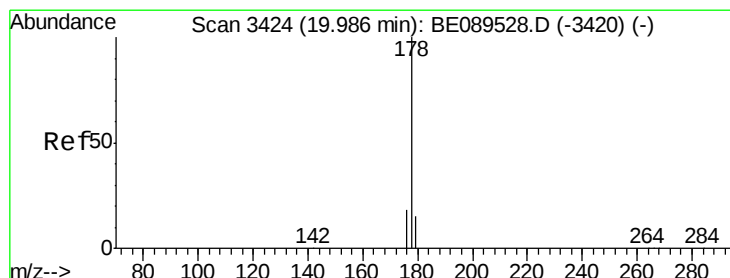
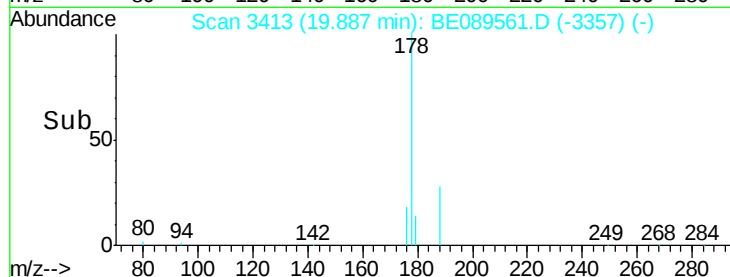
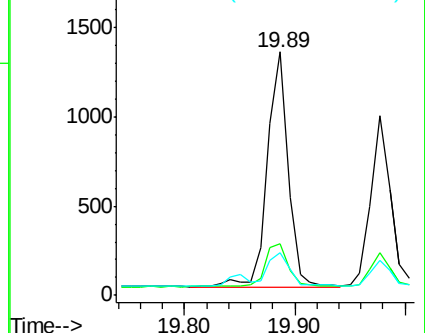
179 15.2 12.2 18.2



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



#14

Anthracene

Concen: 0.08 ng

RT: 19.89 min Scan# 3413

Delta R.T. -0.10 min

Lab File: BE089561.D

Acq: 7 Feb 2015 15:53

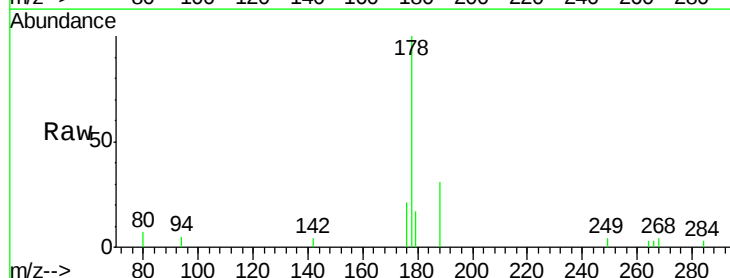
Tgt Ion:178 Resp: 1727

Ion Ratio Lower Upper

178 100

176 20.1 14.5 21.7

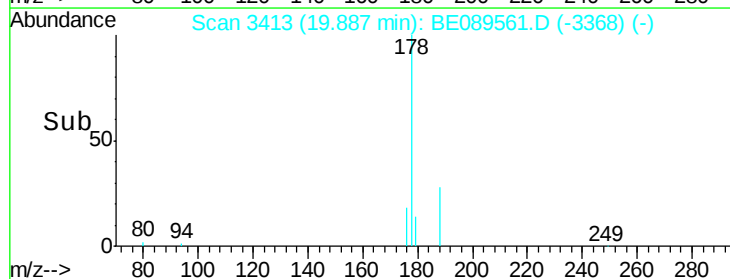
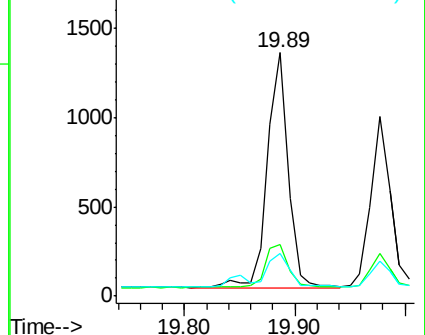
179 15.2 12.2 18.2



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

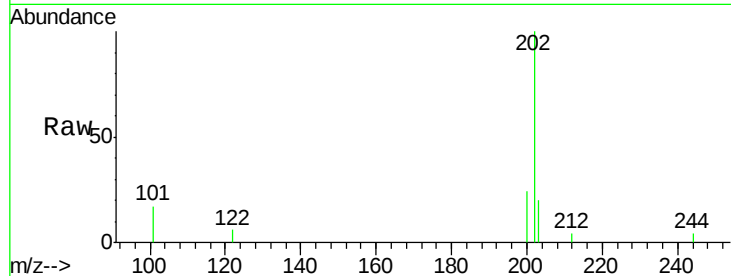




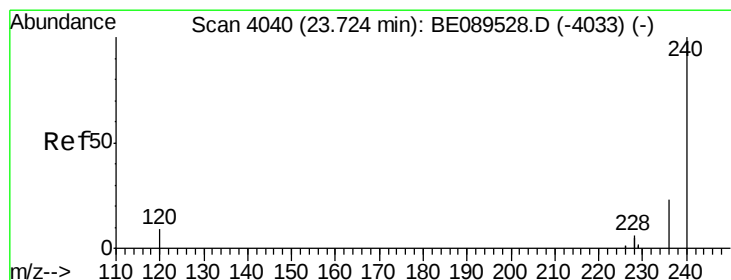
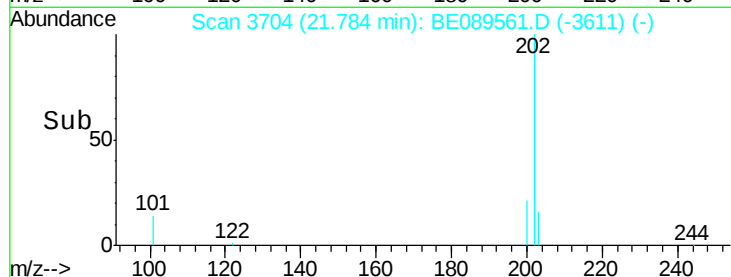
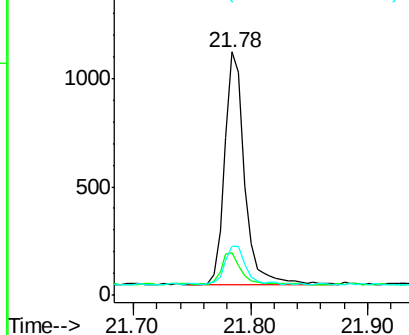
#15
Fluoranthene
Concen: 0.05 ng
RT: 21.78 min Scan# 3704
Delta R.T. -0.01 min
Lab File: BE089561.D
Acq: 7 Feb 2015 15:53

Instrument :
BNA_E
ClientSampleId :
MDL-BLK-W

Tgt Ion: 202 Resp: 1279
Ion Ratio Lower Upper
202 100
101 13.8 11.6 17.4
203 17.5 13.6 20.4

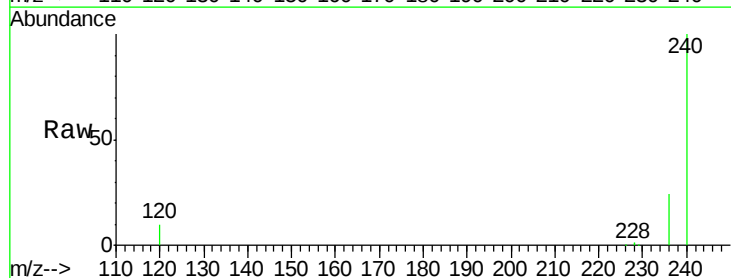


Abundance Ion 202.00 (201.70 to 202.70): E
Ion 101.00 (100.70 to 101.70): E
Ion 203.00 (202.70 to 203.70): E

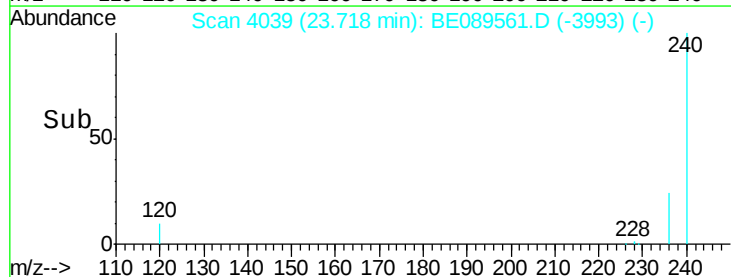
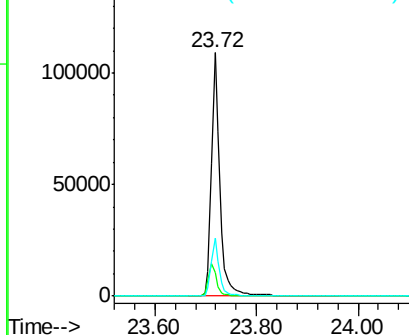


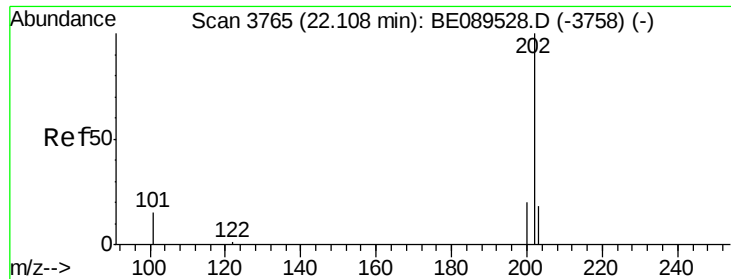
#16
Chrysene-d12
Concen: 5.00 ng
RT: 23.72 min Scan# 4039
Delta R.T. -0.01 min
Lab File: BE089561.D
Acq: 7 Feb 2015 15:53

Tgt Ion: 240 Resp: 124325
Ion Ratio Lower Upper
240 100
120 9.9 7.2 10.8
236 23.7 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

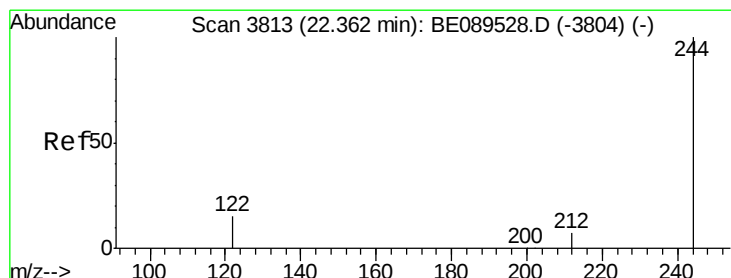
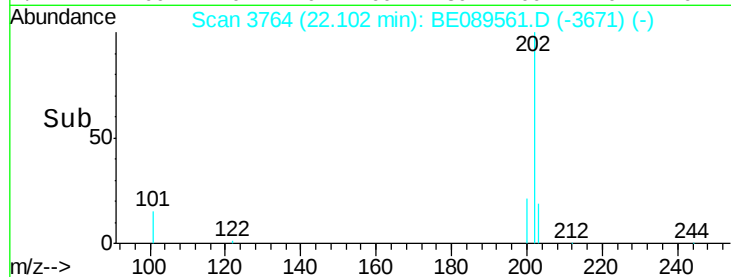
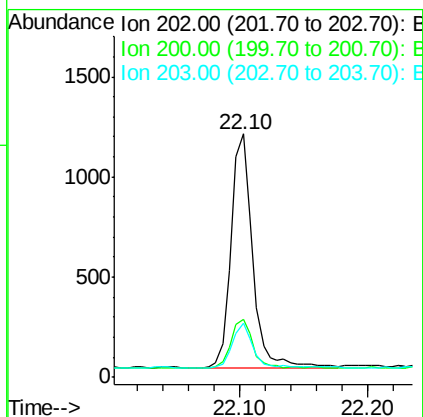
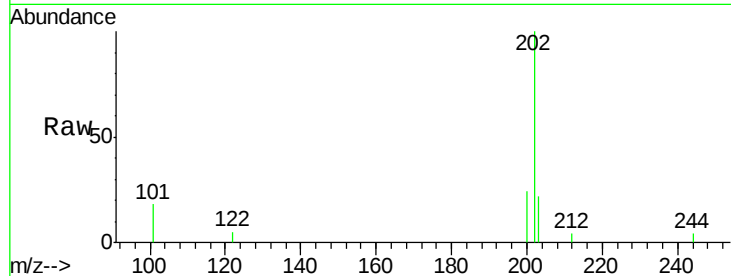




#17
 Pyrene
 Concen: 0.05 ng
 RT: 22.10 min Scan# 3764
 Delta R.T. -0.01 min
 Lab File: BE089561.D
 Acq: 7 Feb 2015 15:53

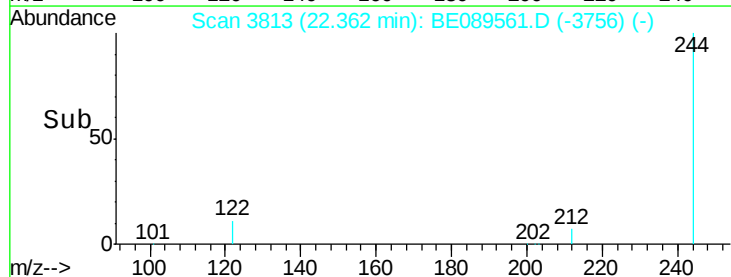
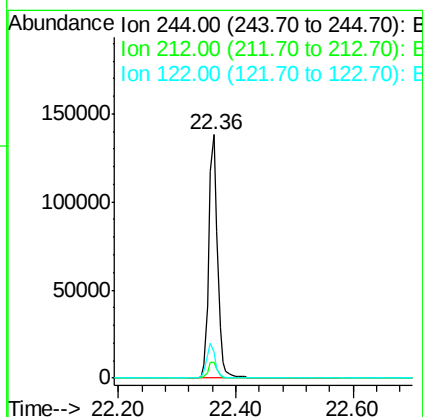
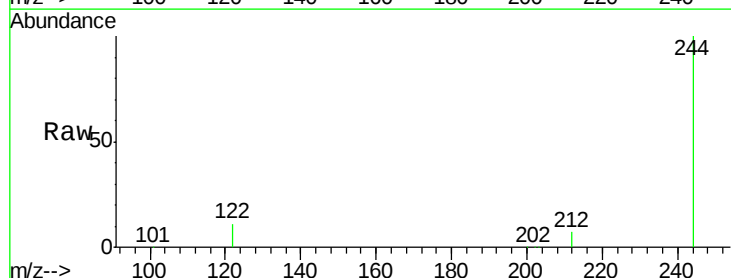
Instrument :
 BNA_E
 ClientSampleId :
 MDL-BLK-W

Tgt Ion:202 Resp: 1357
 Ion Ratio Lower Upper
 202 100
 200 20.9 16.3 24.5
 203 18.9 13.5 20.3



#18
 Terphenyl-d14
 Concen: 8.58 ng
 RT: 22.36 min Scan# 3813
 Delta R.T. -0.00 min
 Lab File: BE089561.D
 Acq: 7 Feb 2015 15:53

Tgt Ion:244 Resp: 140712
 Ion Ratio Lower Upper
 244 100
 212 6.6 5.8 8.8
 122 10.5 12.6 19.0#





#19

Benzo(a)anthracene

Concen: 0.06 ng

RT: 23.70 min Scan# 4037

Delta R.T. -0.01 min

Lab File: BE089561.D

Acq: 7 Feb 2015 15:53

Instrument :

BNA_E

ClientSampleId :

MDL-BLK-W

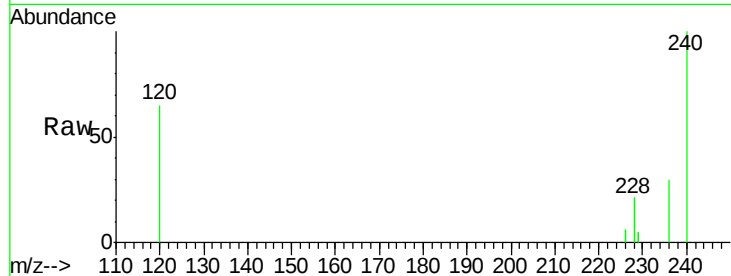
Tgt Ion:228 Resp: 6575

Ion Ratio Lower Upper

228 100

226 29.3 19.0 28.4#

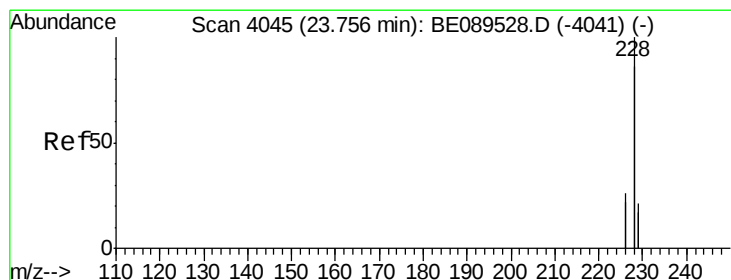
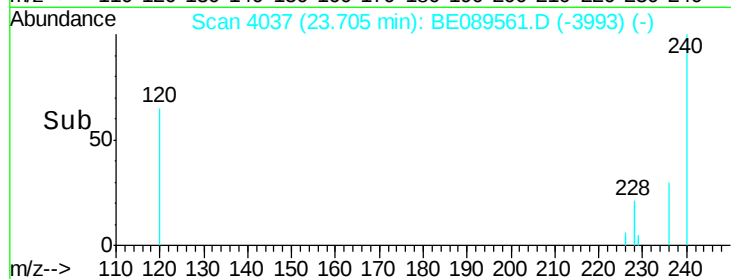
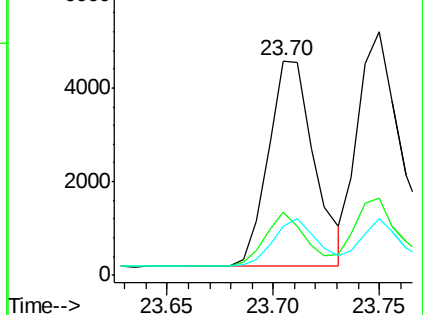
229 22.7 16.8 25.2



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: 0.06 ng

RT: 23.70 min Scan# 4037

Delta R.T. -0.05 min

Lab File: BE089561.D

Acq: 7 Feb 2015 15:53

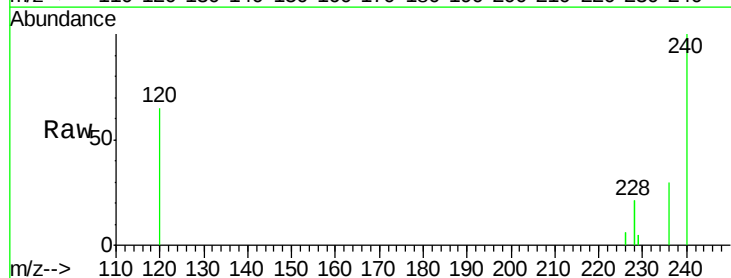
Tgt Ion:228 Resp: 6575

Ion Ratio Lower Upper

228 100

226 29.3 21.0 31.4

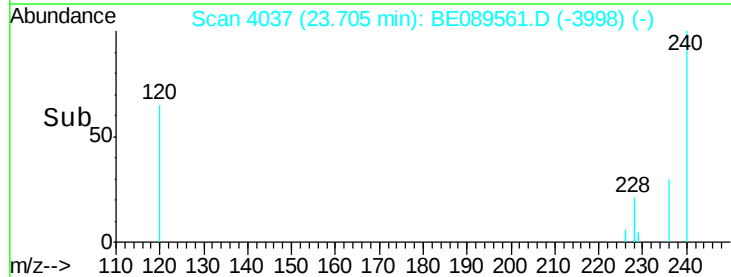
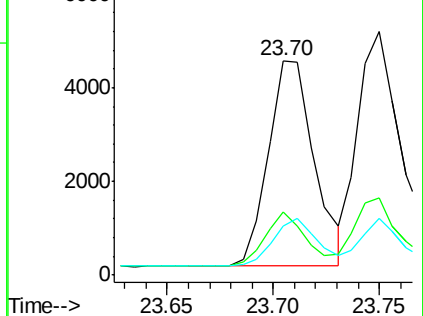
229 22.7 16.7 25.1

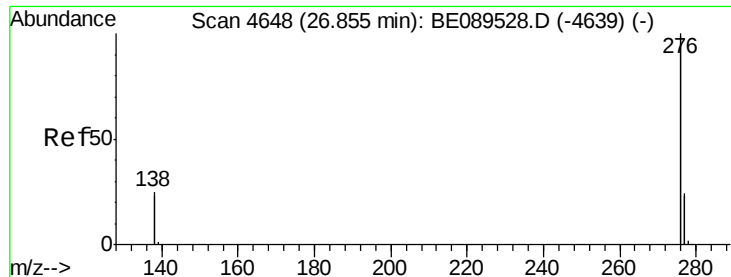


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

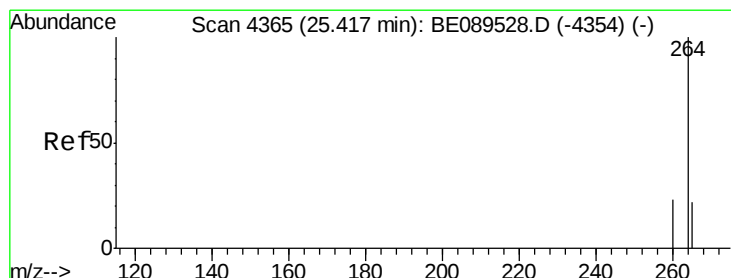
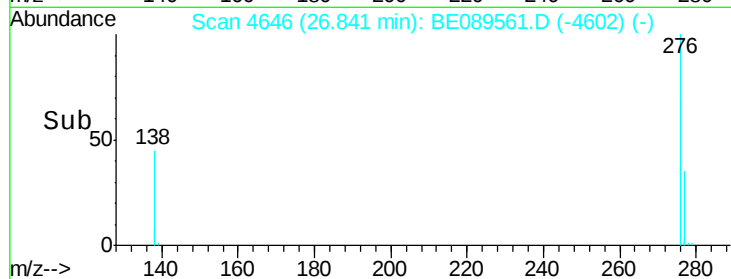
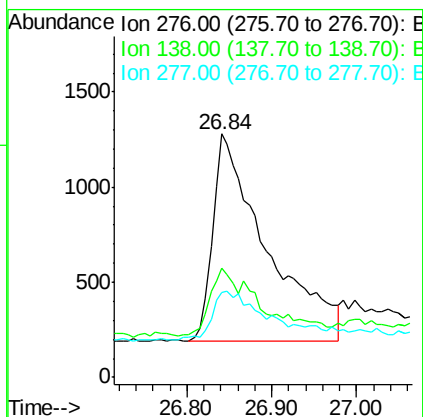
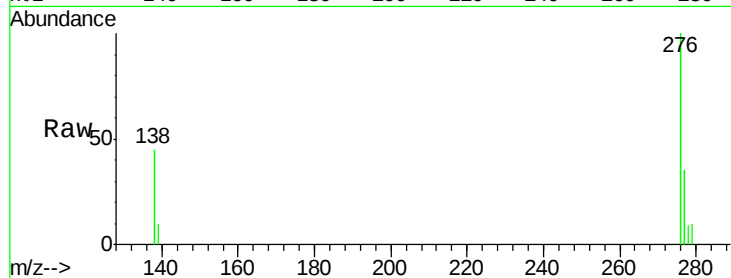




#21
 Indeno(1,2,3-cd)pyrene
 Concen: 0.03 ng
 RT: 26.84 min Scan# 4646
 Delta R.T. -0.01 min
 Lab File: BE089561.D
 Acq: 7 Feb 2015 15:53

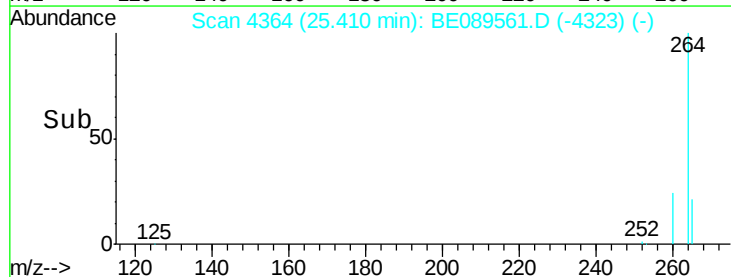
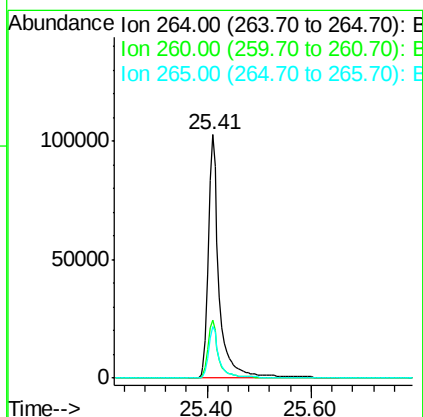
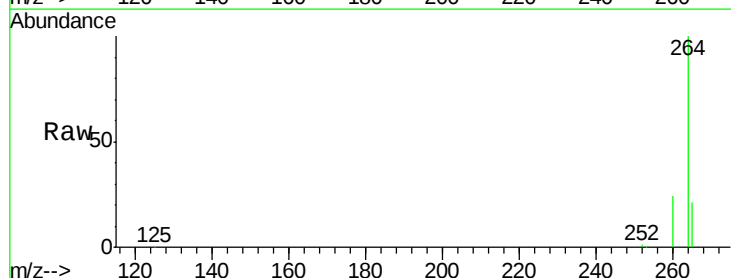
Instrument :
 BNA_E
 ClientSampleId :
 MDL-BLK-W

Tgt Ion:276 Resp: 4810
 Ion Ratio Lower Upper
 276 100
 138 15.4 23.0 34.4#
 277 25.1 19.9 29.9



#22
 Perylene-d12
 Concen: 5.00 ng
 RT: 25.41 min Scan# 4364
 Delta R.T. -0.01 min
 Lab File: BE089561.D
 Acq: 7 Feb 2015 15:53

Tgt Ion:264 Resp: 149381
 Ion Ratio Lower Upper
 264 100
 260 23.8 18.7 28.1
 265 21.3 17.5 26.3





#23

Benzo(b)fluoranthene

Concen: 0.03 ng

RT: 24.97 min Scan# 4268

Delta R.T. -0.01 min

Lab File: BE089561.D

Acq: 7 Feb 2015 15:53

Instrument :

BNA_E

ClientSampleId :

MDL-BLK-W

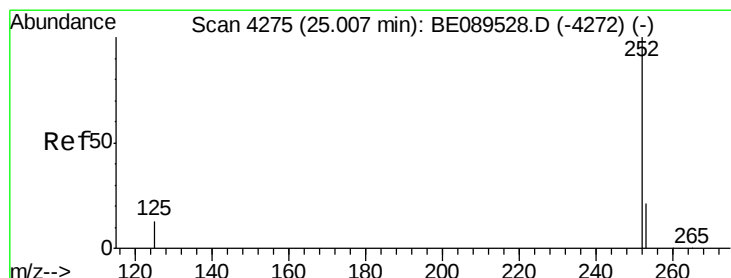
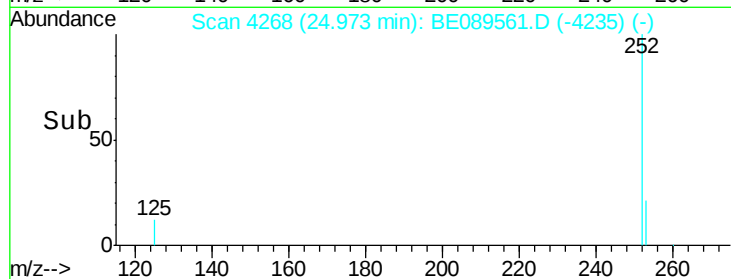
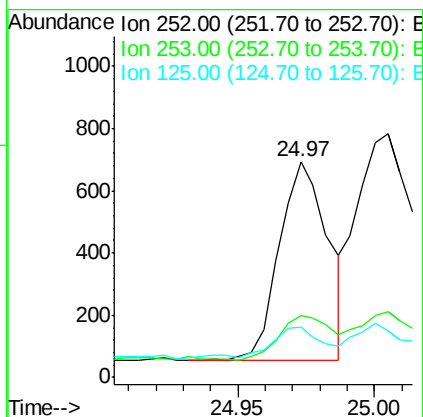
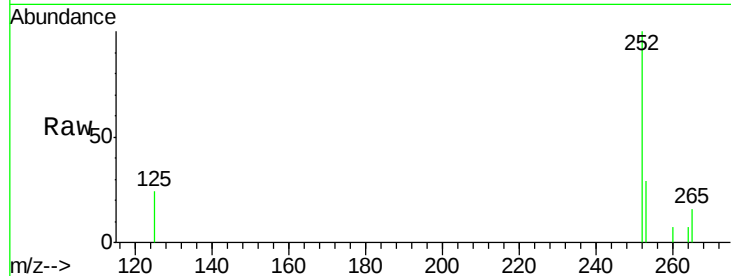
Tgt Ion:252 Resp: 799

Ion Ratio Lower Upper

252 100

253 28.6 17.4 26.0#

125 23.7 10.4 15.6#



#24

Benzo(k)fluoranthene

Concen: 0.04 ng

RT: 25.00 min Scan# 4275

Delta R.T. -0.00 min

Lab File: BE089561.D

Acq: 7 Feb 2015 15:53

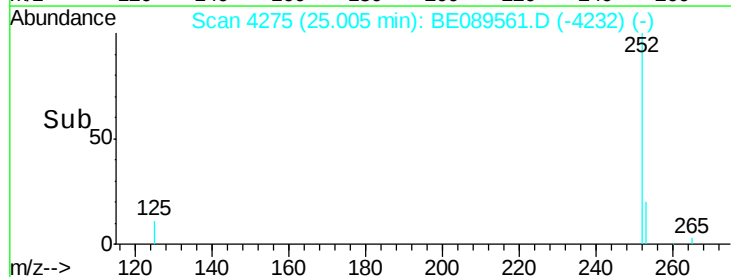
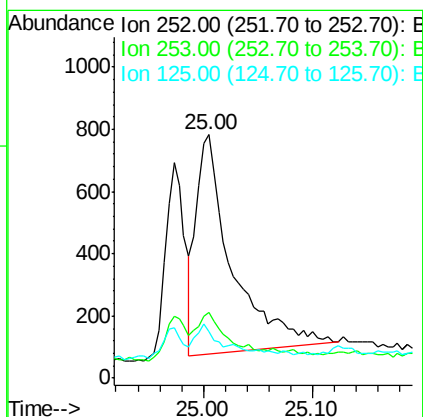
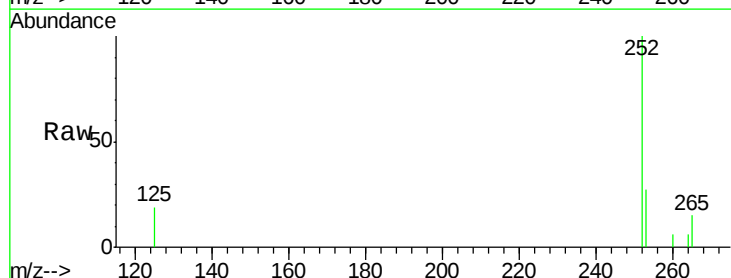
Tgt Ion:252 Resp: 1593

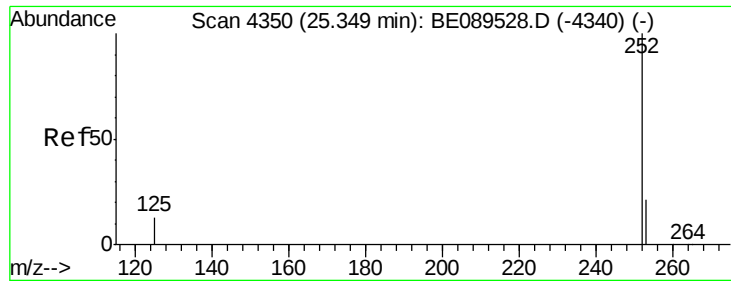
Ion Ratio Lower Upper

252 100

253 26.8 17.2 25.8#

125 19.2 10.6 15.8#





#25

Benzo(a)pyrene

Concen: 0.03 ng

RT: 25.34 min Scan# 4348

Delta R.T. -0.01 min

Lab File: BE089561.D

Acq: 7 Feb 2015 15:53

Instrument :

BNA_E

ClientSampleId :

MDL-BLK-W

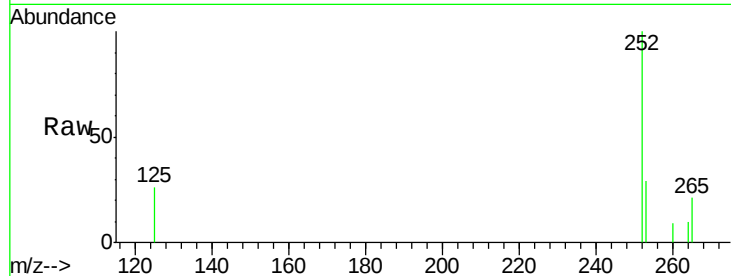
Tgt Ion: 252 Resp: 957

Ion Ratio Lower Upper

252 100

253 29.1 17.8 26.6#

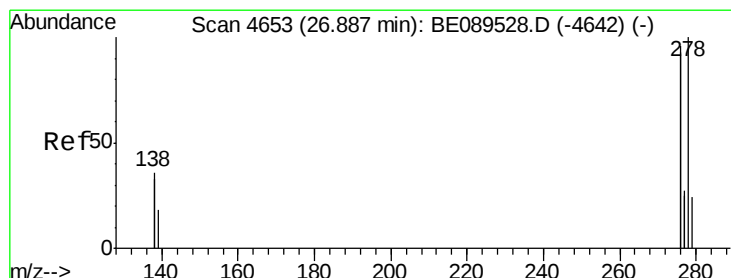
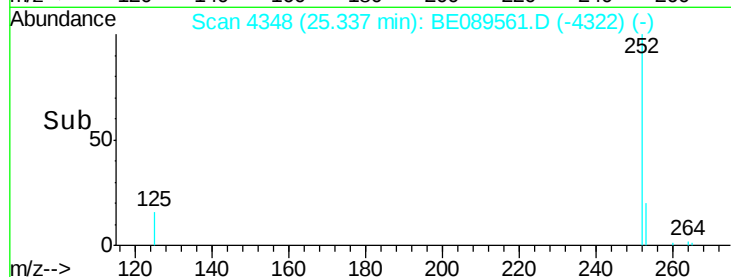
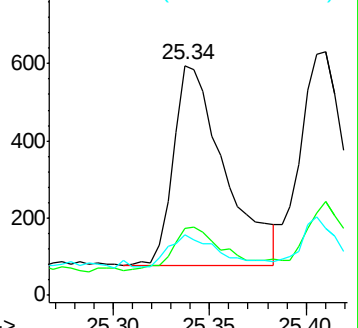
125 26.4 11.4 17.2#



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



#26

Dibenzo(a,h)anthracene

Concen: 0.02 ng

RT: 26.88 min Scan# 4652

Delta R.T. -0.01 min

Lab File: BE089561.D

Acq: 7 Feb 2015 15:53

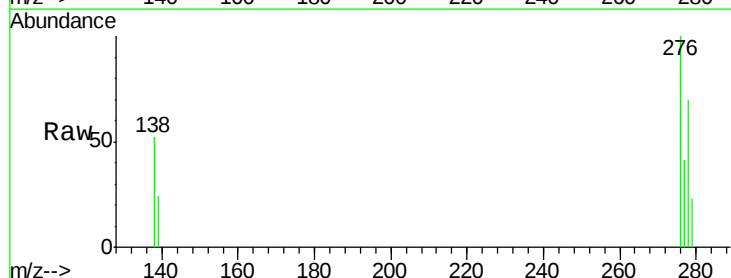
Tgt Ion: 278 Resp: 815

Ion Ratio Lower Upper

278 100

139 34.2 15.7 23.5#

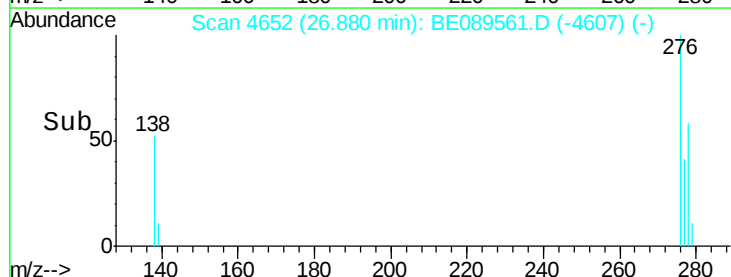
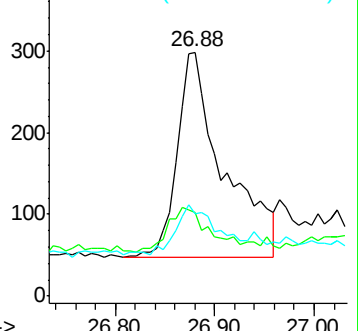
279 33.6 19.5 29.3#

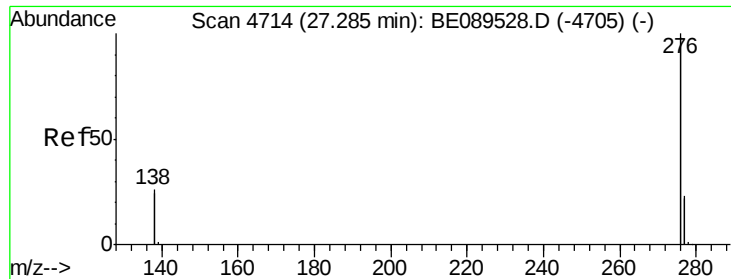


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#27
 Benzo(g,h,i)perylene
 Concen: 0.05 ng
 RT: 27.27 min Scan# 4712
 Delta R.T. -0.01 min
 Lab File: BE089561.D
 Acq: 7 Feb 2015 15:53

Instrument :
 BNA_E
 ClientSampleId :
 MDL-BLK-W

Tgt Ion: 276 Resp: 6655
 Ion Ratio Lower Upper
 276 100
 277 32.1 18.6 27.8#
 138 39.1 20.9 31.3#

