

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE020615\
 Data File : BE089566.D
 Acq On : 7 Feb 2015 19:48
 Operator : TP/IZ
 Sample : MDL-04-W
 Misc : MDL-SOIL-0.1/0.2
 ALS Vial : 39 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 MDL-05-W

Quant Time: Feb 09 00:20:51 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	59423	5.00	ng	0.00
2) Naphthalene-d8	12.33	136	236873	5.00	ng	0.00
6) Acenaphthene-d10	16.51	164	117629	5.00	ng	0.00
11) Phenanthrene-d10	19.84	188	208624	5.00	ng	0.00
16) Chrysene-d12	23.72	240	224232	5.00	ng	0.00
22) Perylene-d12	25.41	264	220244	5.00	ng	0.00

System Monitoring Compounds						
3) Nitrobenzene-d5	10.69	82	145285	9.24	ng	0.00
7) 2-Fluorobiphenyl	14.96	172	232515	7.41	ng	0.00
18) Terphenyl-d14	22.36	244	277970	9.40	ng	0.00

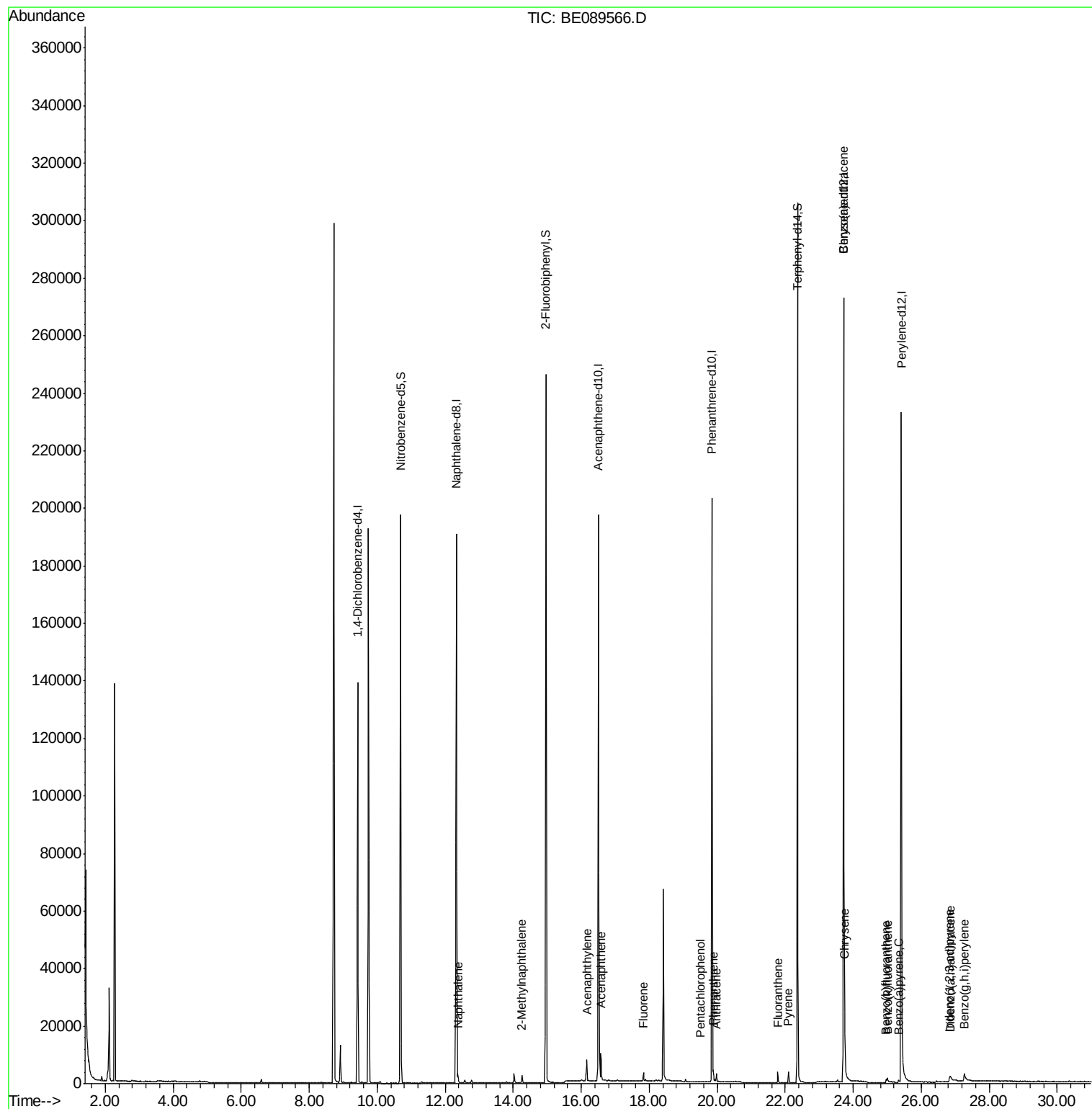
Target Compounds						Qvalue
4) Naphthalene	12.37	128	3793	0.07	ng	96
5) 2-Methylnaphthalene	14.26	142	1800	0.06	ng	95
8) Acenaphthylene	16.16	152	10323	0.05	ng	99
9) Acenaphthene	16.58	154	1808	0.06	ng	88
10) Fluorene	17.83	166	2022	0.06	ng	96
12) Pentachlorophenol	19.52	266	26	0.55	ng	# 81
13) Phenanthrene	19.89	178	3594	0.07	ng	99
14) Anthracene	19.98	178	2678	0.06	ng	99
15) Fluoranthene	21.79	202	2762	0.06	ng	97
17) Pyrene	22.10	202	2918	0.06	ng	100
19) Benzo(a)anthracene	23.71	228	12567	0.06	ng	98
20) Chrysene	23.75	228	14603	0.07	ng	95
21) Indeno(1,2,3-cd)pyrene	26.84	276	4646	0.02	ng	91
23) Benzo(b)fluoranthene	24.97	252	1193	0.03	ng	# 86
24) Benzo(k)fluoranthene	25.00	252	2408	0.05	ng	# 90
25) Benzo(a)pyrene	25.34	252	1299	0.03	ng	# 80
26) Dibenzo(a,h)anthracene	26.87	278	925	0.02	ng	# 69
27) Benzo(g,h,i)perylene	27.27	276	7342	0.03	ng	# 85

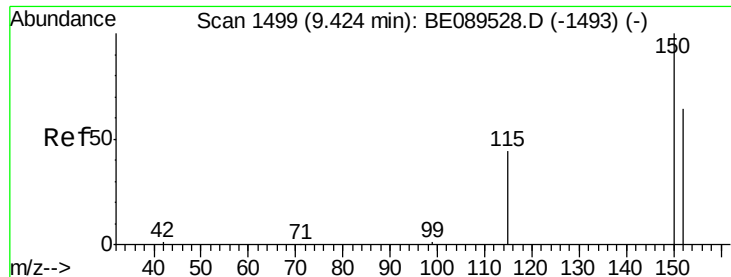
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE020615\
Data File : BE089566.D
Acq On : 7 Feb 2015 19:48
Operator : TP/IZ
Sample : MDL-04-W
Misc : MDL-SOIL-0.1/0.2
ALS Vial : 39 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
MDL-05-W

Quant Time: Feb 09 00:20:51 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





#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 9.42 min Scan# 1498

Delta R.T. -0.00 min

Lab File: BE089566.D

Acq: 7 Feb 2015 19:48

Instrument :

BNA_E

ClientSampleId :

MDL-05-W

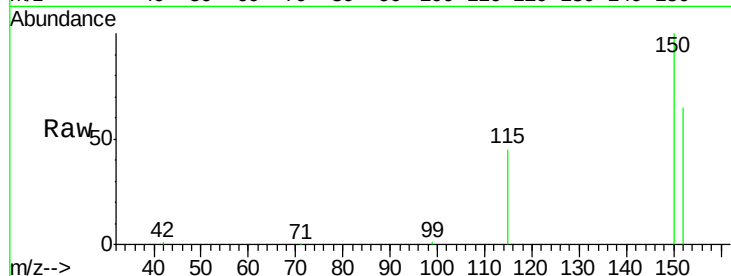
Tgt Ion:152 Resp: 59423

Ion Ratio Lower Upper

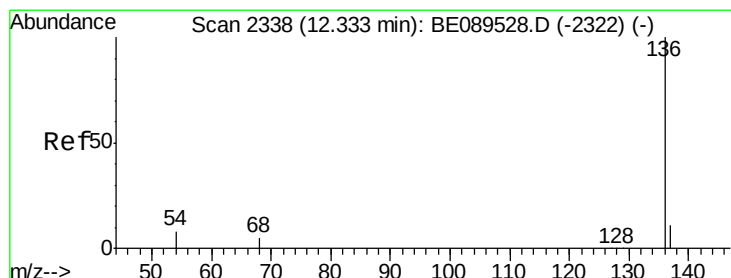
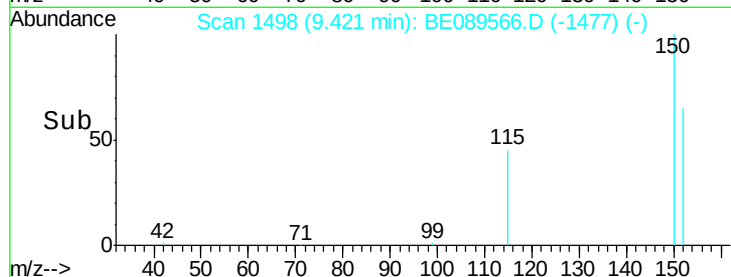
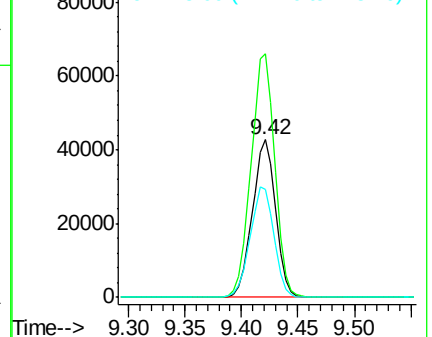
152 100

150 154.5 125.7 188.5

115 68.8 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# 2338

Delta R.T. -0.00 min

Lab File: BE089566.D

Acq: 7 Feb 2015 19:48

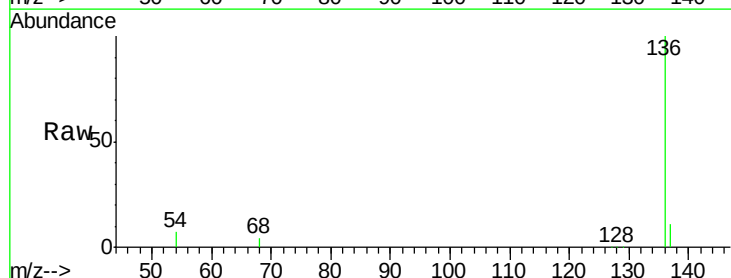
Tgt Ion:136 Resp: 236873

Ion Ratio Lower Upper

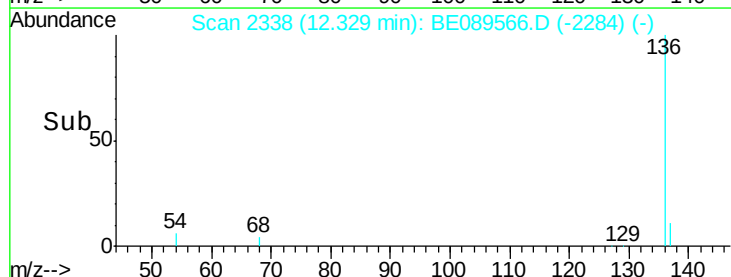
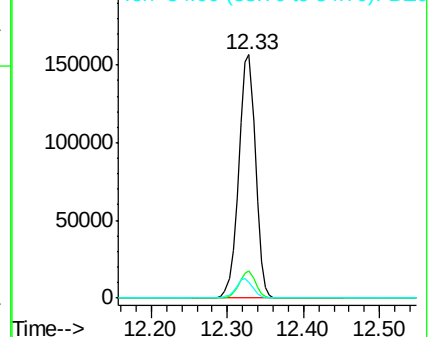
136 100

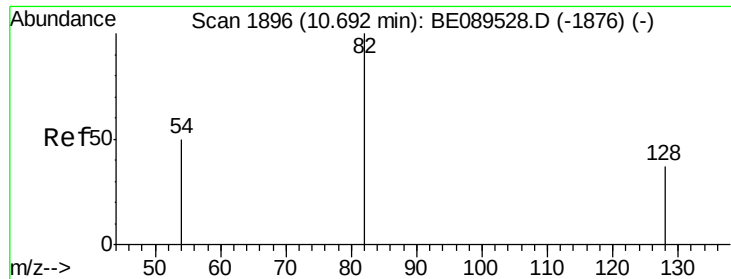
137 11.0 8.7 13.1

54 6.5 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: 9.24 ng

RT: 10.69 min Scan# 1895

Delta R.T. -0.00 min

Lab File: BE089566.D

Acq: 7 Feb 2015 19:48

Instrument :

BNA_E

ClientSampleId :

MDL-05-W

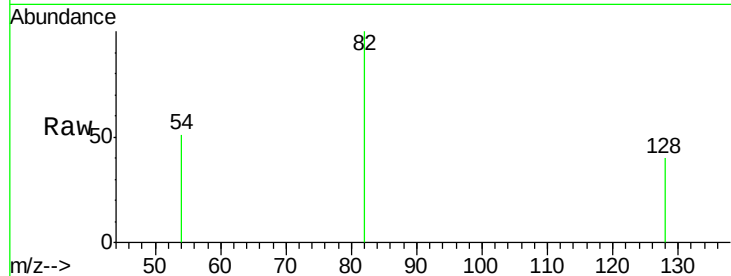
Tgt Ion: 82 Resp: 145285

Ion Ratio Lower Upper

82 100

128 39.6 30.2 45.4

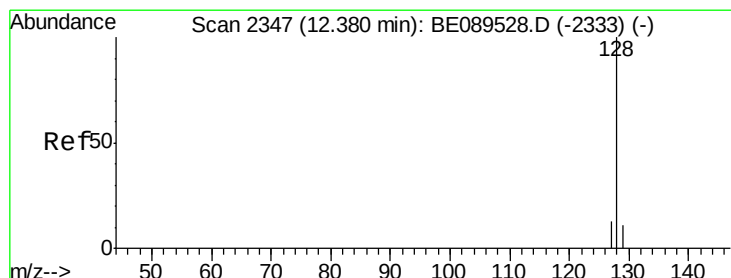
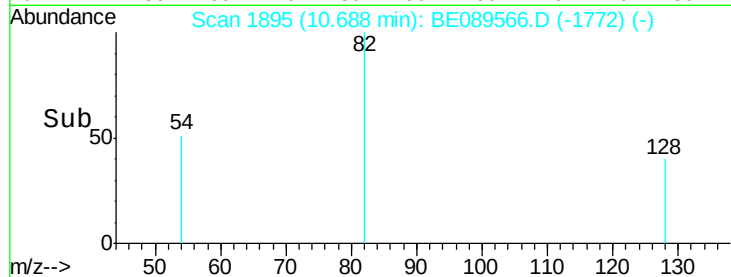
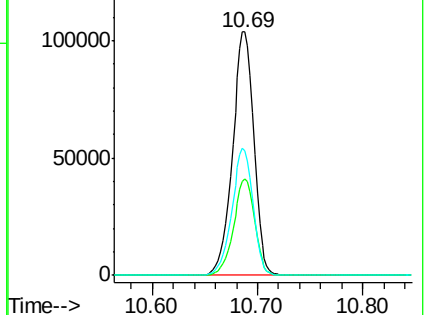
54 51.2 40.6 60.8



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: 12.37 min Scan# 2346

Delta R.T. -0.01 min

Lab File: BE089566.D

Acq: 7 Feb 2015 19:48

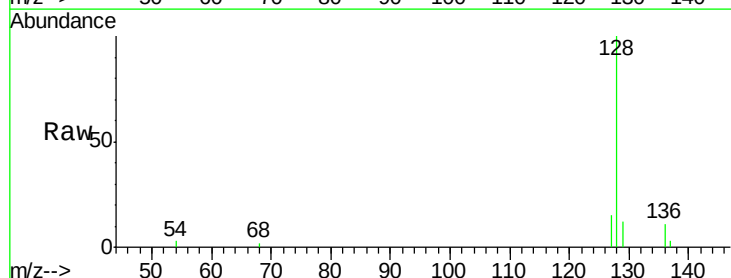
Tgt Ion: 128 Resp: 3793

Ion Ratio Lower Upper

128 100

129 12.3 9.1 13.7

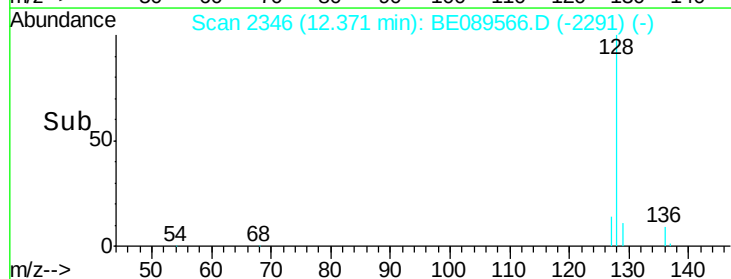
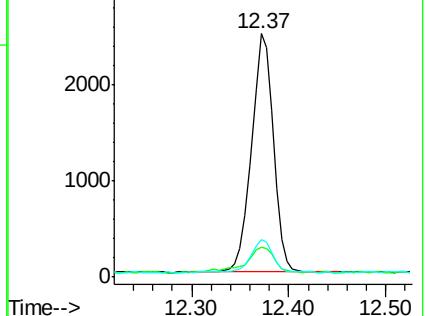
127 15.5 10.5 15.7

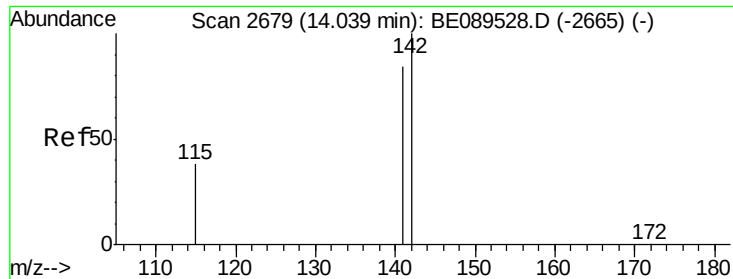


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E





#5

2-Methylnaphthalene

Concen: 0.06 ng

RT: 14.26 min Scan# 2728

Delta R.T. 0.22 min

Lab File: BE089566.D

Acq: 7 Feb 2015 19:48

Instrument :

BNA_E

ClientSampleId :

MDL-05-W

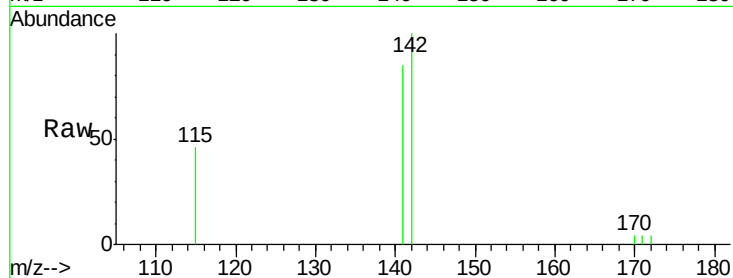
Tgt Ion:142 Resp: 1800

Ion Ratio Lower Upper

142 100

141 85.1 67.0 100.6

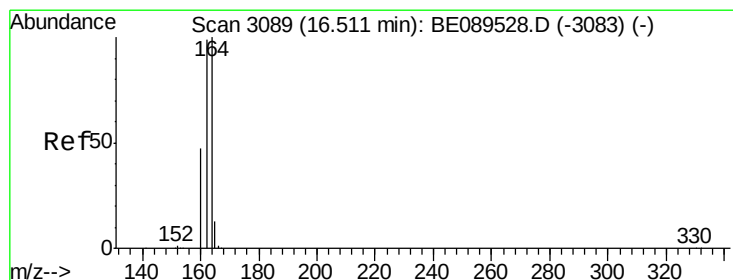
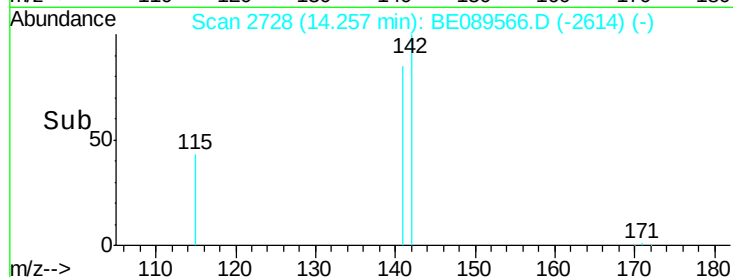
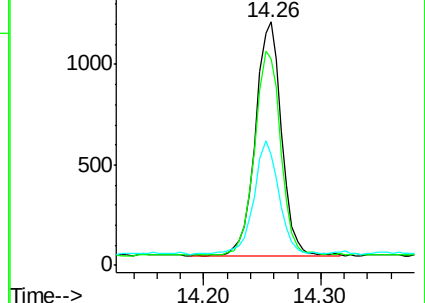
115 45.6 30.6 45.8



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# 3090

Delta R.T. 0.00 min

Lab File: BE089566.D

Acq: 7 Feb 2015 19:48

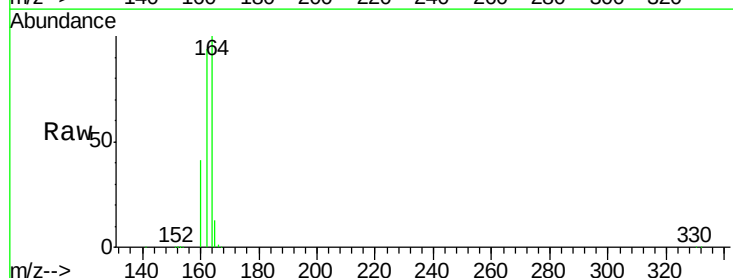
Tgt Ion:164 Resp: 117629

Ion Ratio Lower Upper

164 100

162 94.3 79.5 119.3

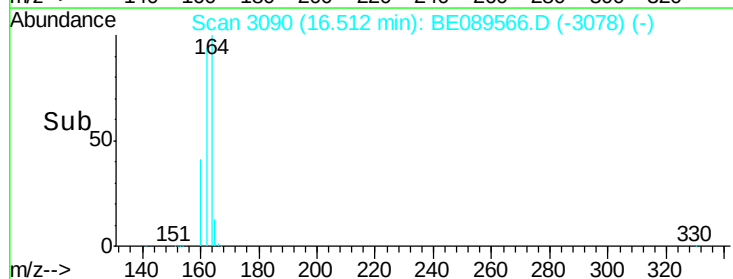
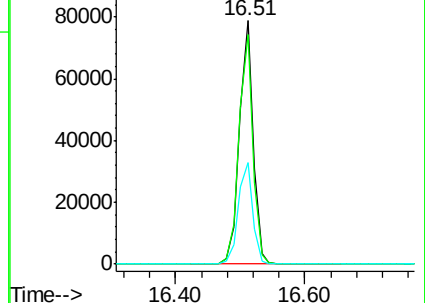
160 41.5 37.6 56.4

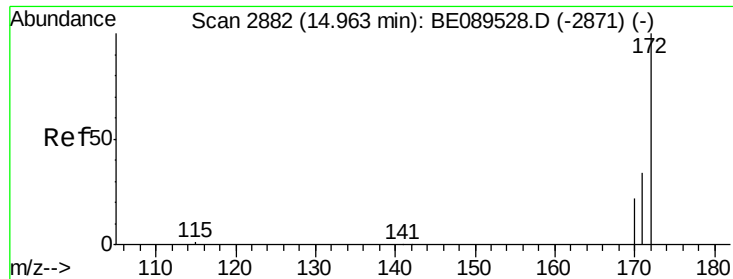


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#7

2-Fluorobiphenyl

Concen: 7.41 ng

RT: 14.96 min Scan# 2883

Delta R.T. -0.00 min

Lab File: BE089566.D

Acq: 7 Feb 2015 19:48

Instrument :

BNA_E

ClientSampleId :

MDL-05-W

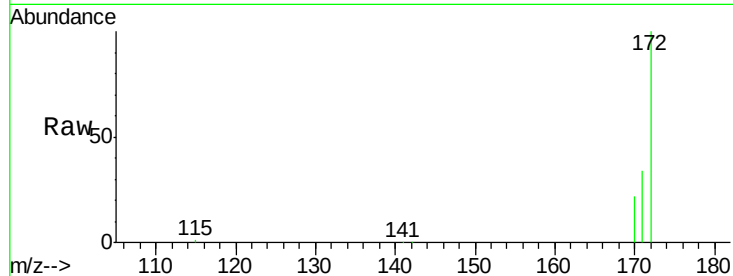
Tgt Ion:172 Resp: 232515

Ion Ratio Lower Upper

172 100

171 33.6 27.7 41.5

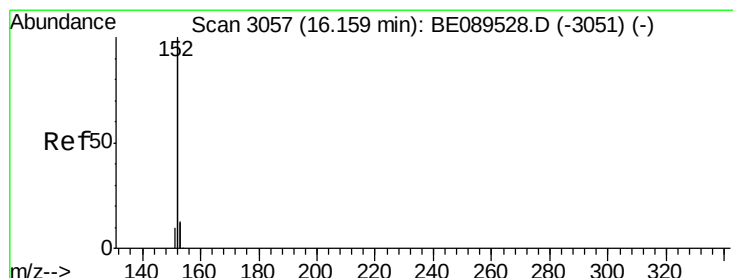
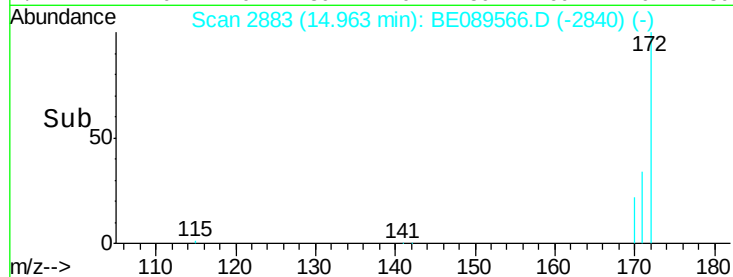
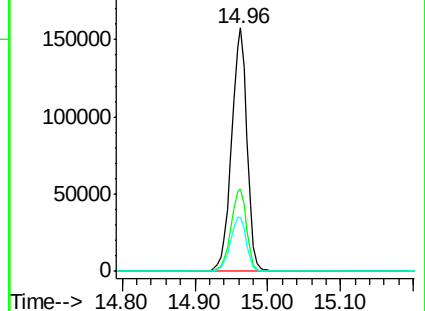
170 22.1 18.3 27.5



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: 16.16 min Scan# 3058

Delta R.T. 0.00 min

Lab File: BE089566.D

Acq: 7 Feb 2015 19:48

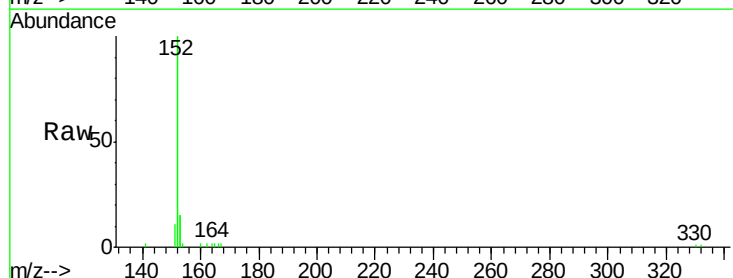
Tgt Ion:152 Resp: 10323

Ion Ratio Lower Upper

152 100

151 5.5 4.0 6.0

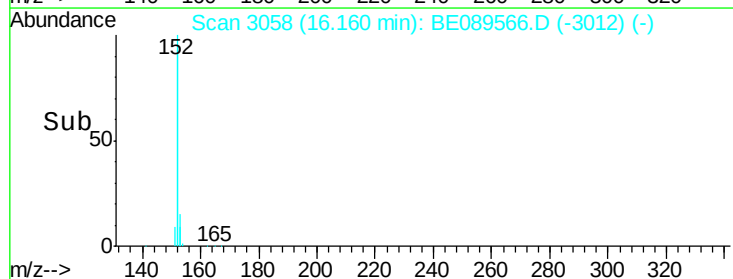
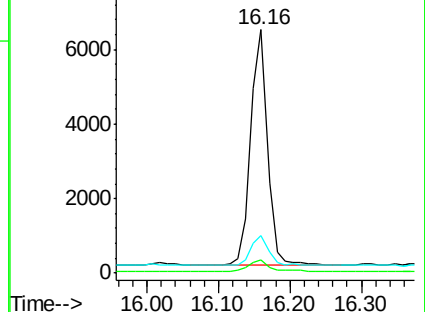
153 13.6 10.6 15.8

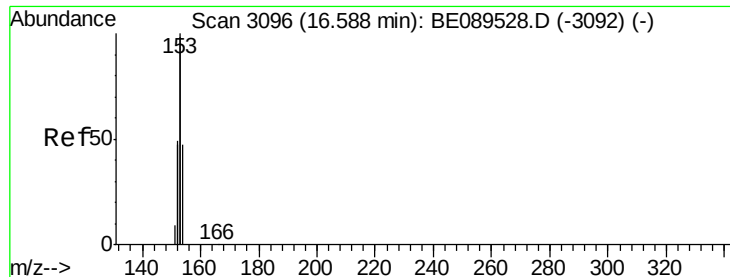


Abundance Ion 152.00 (151.70 to 152.70): E

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: 16.58 min Scan# 3096

Delta R.T. -0.01 min

Lab File: BE089566.D

Acq: 7 Feb 2015 19:48

Instrument :

BNA_E

ClientSampleId :

MDL-05-W

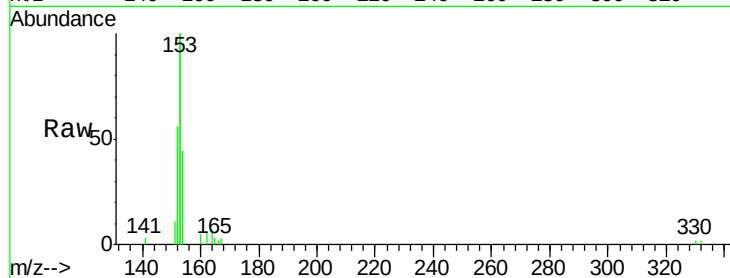
Tgt Ion:154 Resp: 1808

Ion Ratio Lower Upper

154 100

153 441.9 340.8 511.2

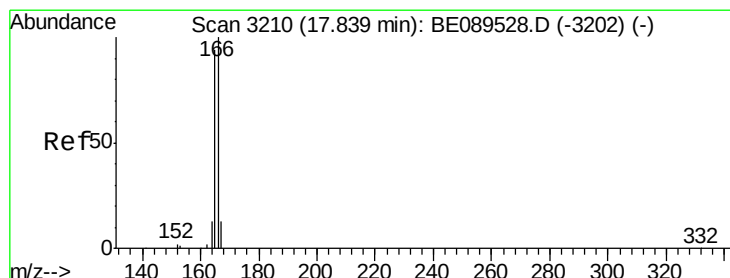
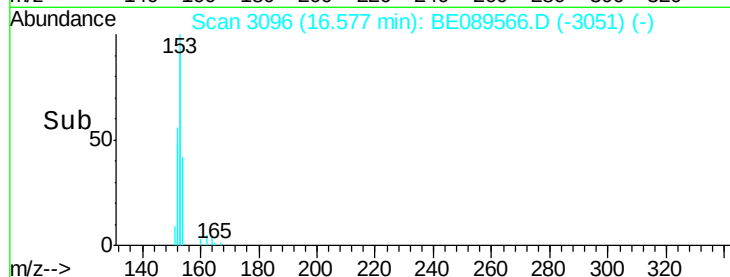
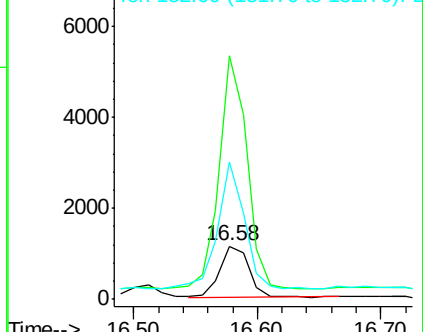
152 243.1 165.5 248.3



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# 3210

Delta R.T. -0.01 min

Lab File: BE089566.D

Acq: 7 Feb 2015 19:48

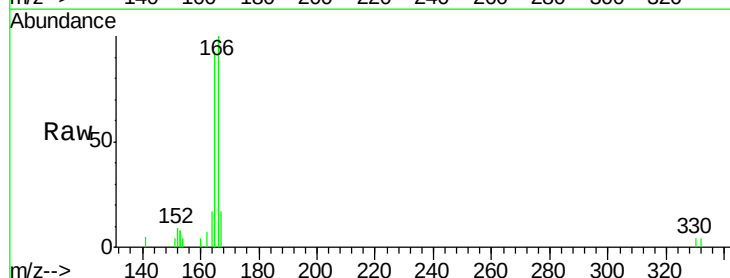
Tgt Ion:166 Resp: 2022

Ion Ratio Lower Upper

166 100

165 89.8 75.5 113.3

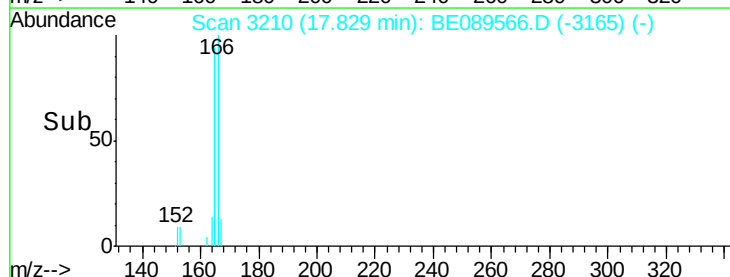
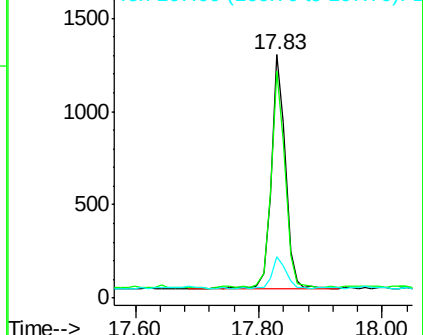
167 13.8 10.9 16.3

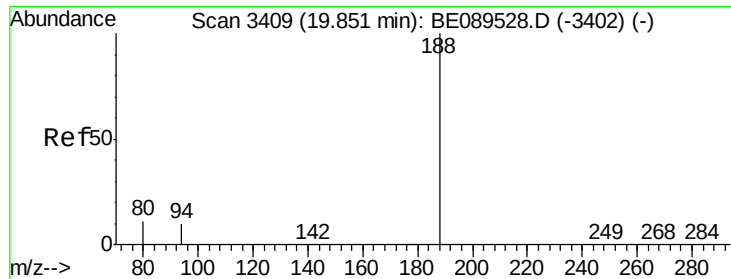


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

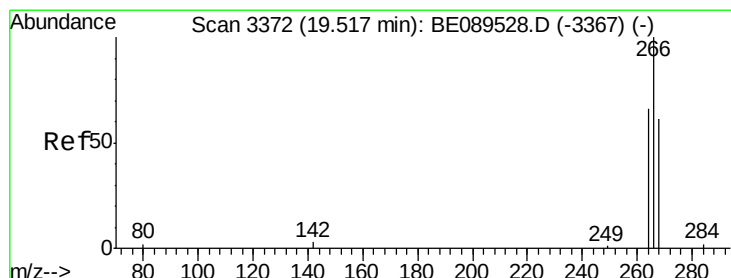
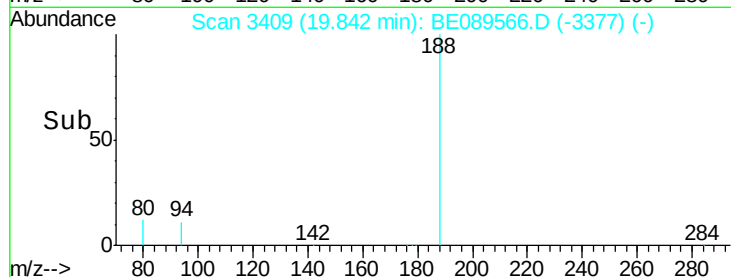
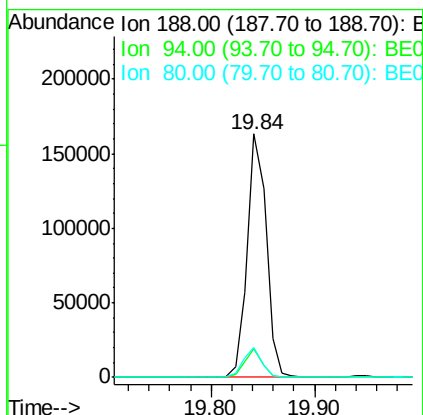
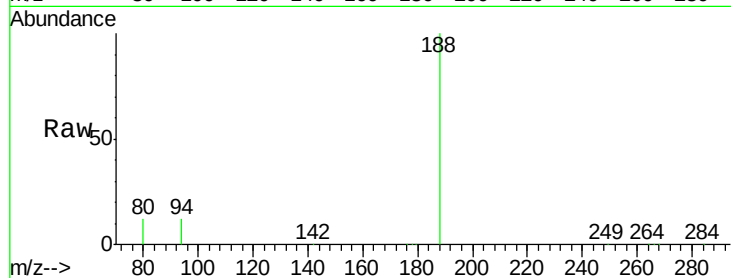




#11
Phenanthrene-d10
Concen: 5.00 ng
RT: 19.84 min Scan# 3409
Delta R.T. -0.01 min
Lab File: BE089566.D
Acq: 7 Feb 2015 19:48

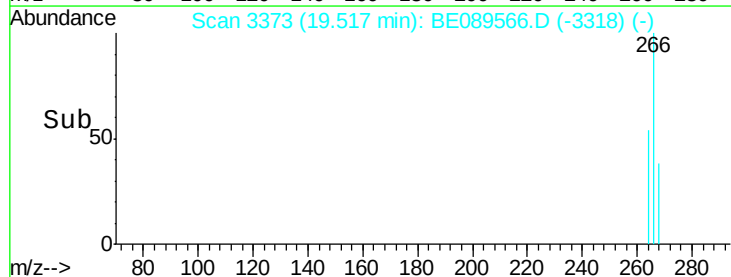
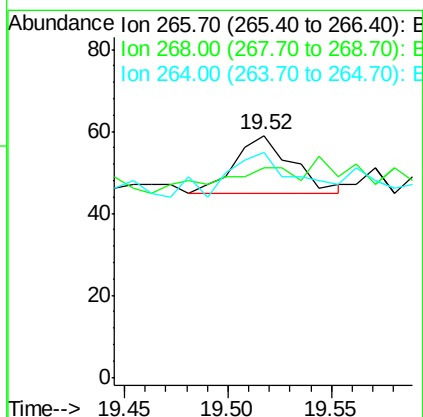
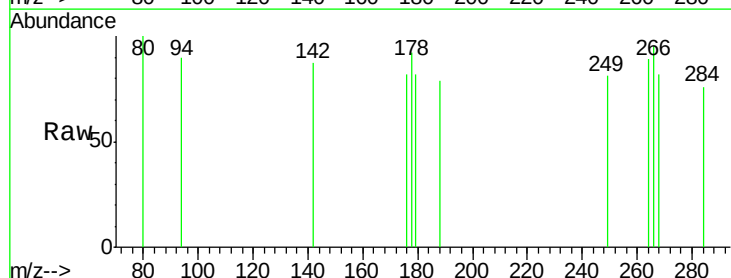
Instrument :
BNA_E
ClientSampleId :
MDL-05-W

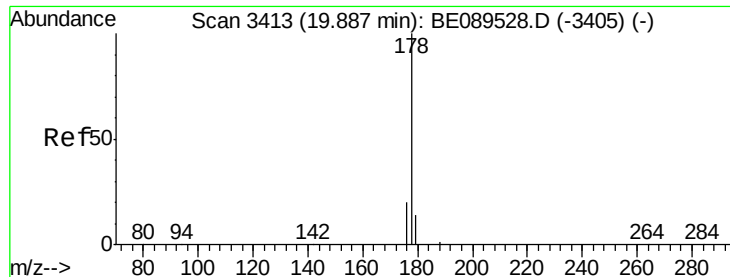
Tgt Ion:188 Resp: 208624
Ion Ratio Lower Upper
188 100
94 11.5 8.4 12.6
80 12.5 8.6 12.8



#12
Pentachlorophenol
Concen: 0.55 ng
RT: 19.52 min Scan# 3373
Delta R.T. 0.00 min
Lab File: BE089566.D
Acq: 7 Feb 2015 19:48

Tgt Ion:266 Resp: 26
Ion Ratio Lower Upper
266 100
268 86.4 57.9 86.9
264 93.2 60.2 90.4#

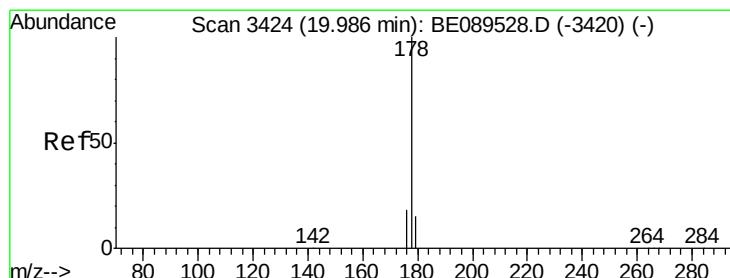
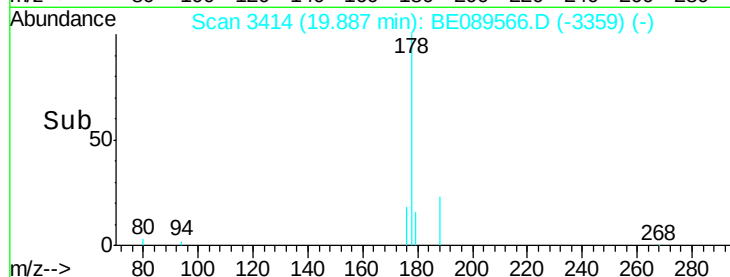
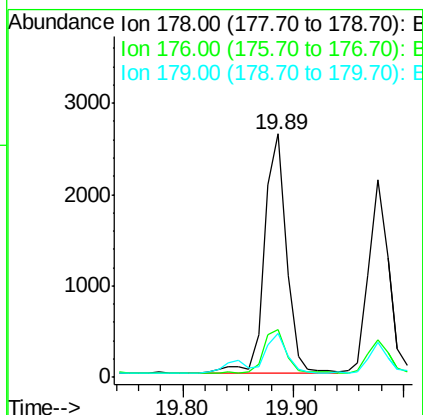
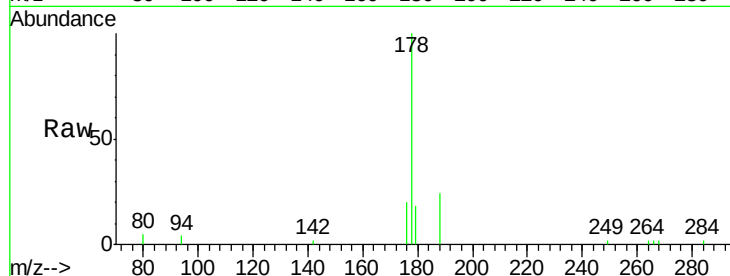




#13
Phenanthrene
Concen: 0.07 ng
RT: 19.89 min Scan# 3414
Delta R.T. -0.00 min
Lab File: BE089566.D
Acq: 7 Feb 2015 19:48

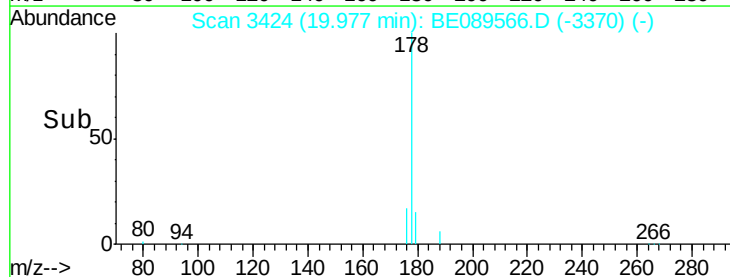
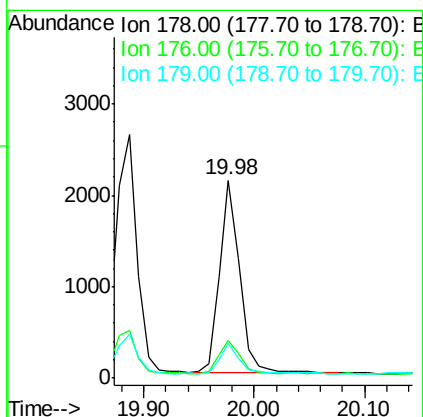
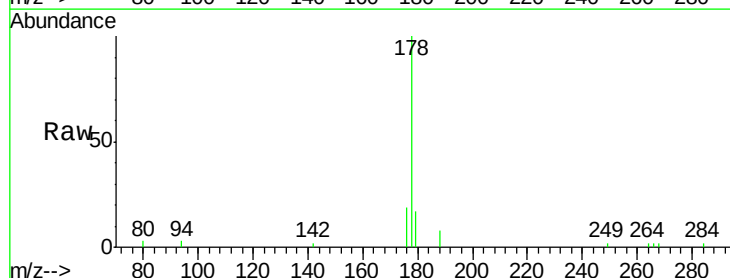
Instrument :
BNA_E
ClientSampleId :
MDL-05-W

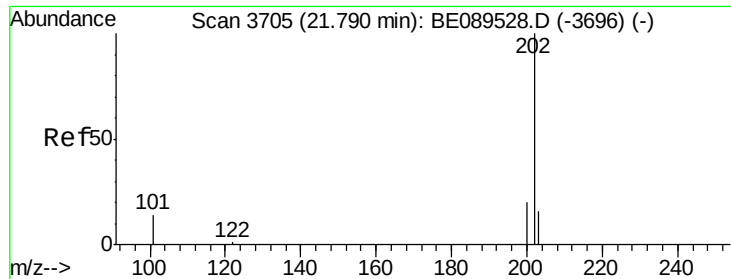
Tgt Ion:178 Resp: 3594
Ion Ratio Lower Upper
178 100
176 18.7 15.4 23.0
179 15.4 12.2 18.2



#14
Anthracene
Concen: 0.06 ng
RT: 19.98 min Scan# 3424
Delta R.T. -0.01 min
Lab File: BE089566.D
Acq: 7 Feb 2015 19:48

Tgt Ion:178 Resp: 2678
Ion Ratio Lower Upper
178 100
176 18.0 14.5 21.7
179 14.7 12.2 18.2

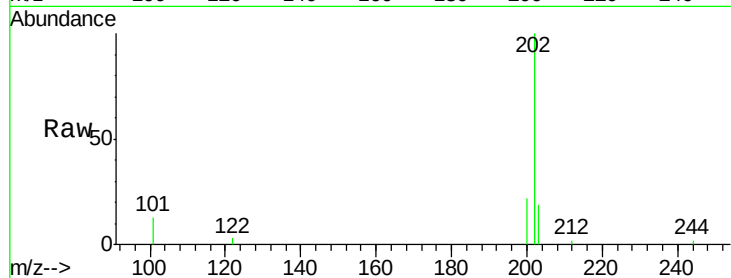




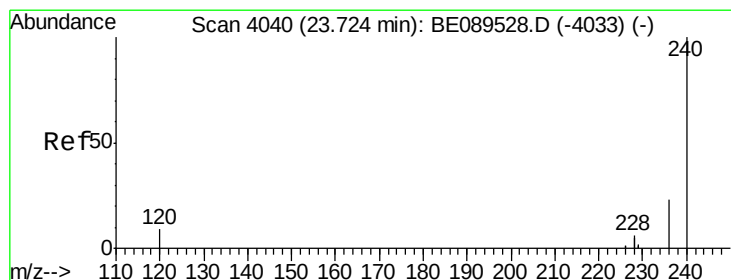
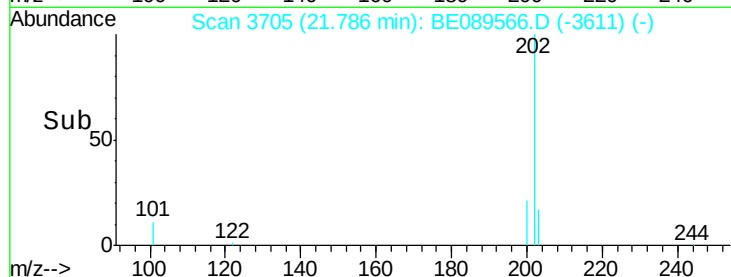
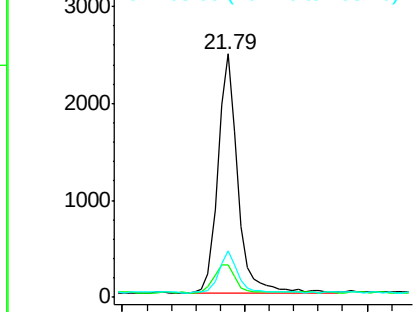
#15
Fluoranthene
Concen: 0.06 ng
RT: 21.79 min Scan# 3705
Delta R.T. -0.00 min
Lab File: BE089566.D
Acq: 7 Feb 2015 19:48

Instrument :
BNA_E
ClientSampleId :
MDL-05-W

Tgt Ion: 202 Resp: 2762
Ion Ratio Lower Upper
202 100
101 12.8 11.6 17.4
203 16.3 13.6 20.4

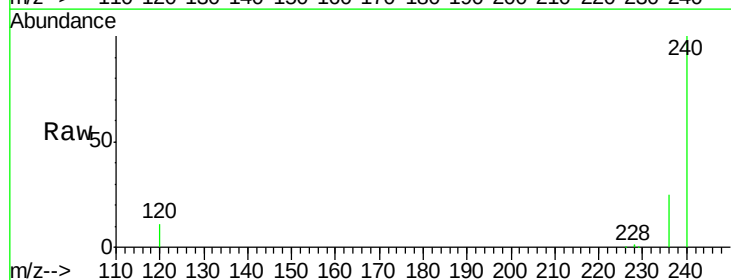


Abundance Ion 202.00 (201.70 to 202.70): E
Ion 101.00 (100.70 to 101.70): E
Ion 203.00 (202.70 to 203.70): E

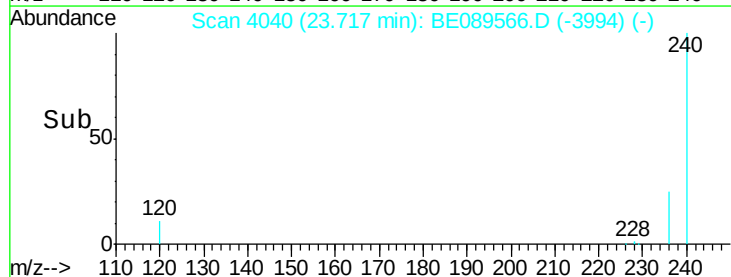
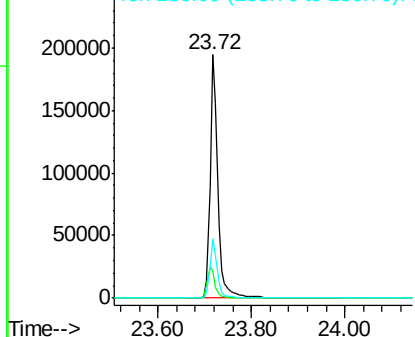


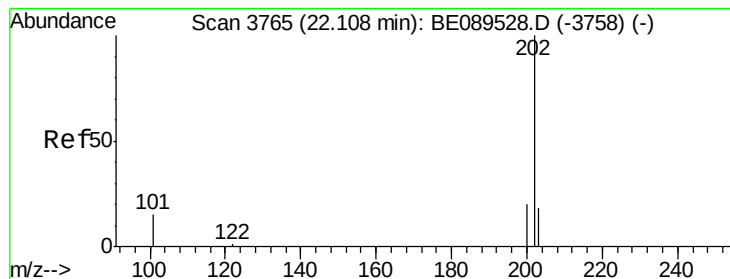
#16
Chrysene-d12
Concen: 5.00 ng
RT: 23.72 min Scan# 4040
Delta R.T. -0.01 min
Lab File: BE089566.D
Acq: 7 Feb 2015 19:48

Tgt Ion: 240 Resp: 224232
Ion Ratio Lower Upper
240 100
120 11.3 7.2 10.8#
236 24.6 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: 0.06 ng

RT: 22.10 min Scan# 3764

Delta R.T. -0.01 min

Lab File: BE089566.D

Acq: 7 Feb 2015 19:48

Instrument :

BNA_E

ClientSampleId :

MDL-05-W

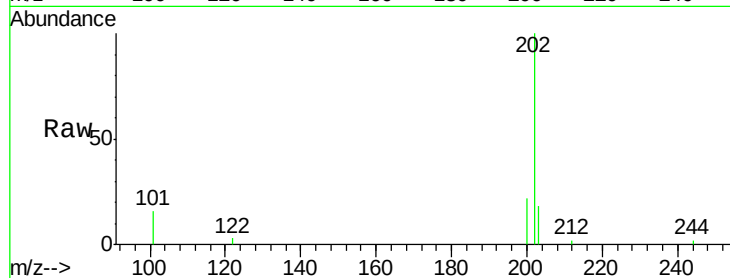
Tgt Ion: 202 Resp: 2918

Ion Ratio Lower Upper

202 100

200 20.4 16.3 24.5

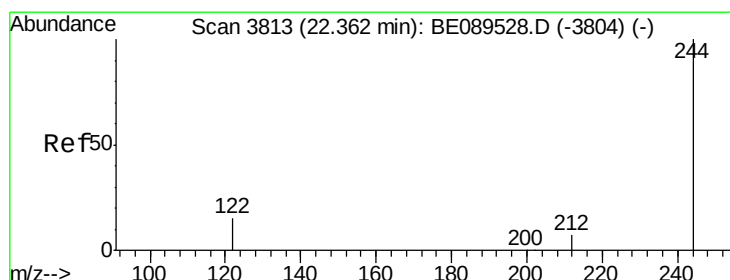
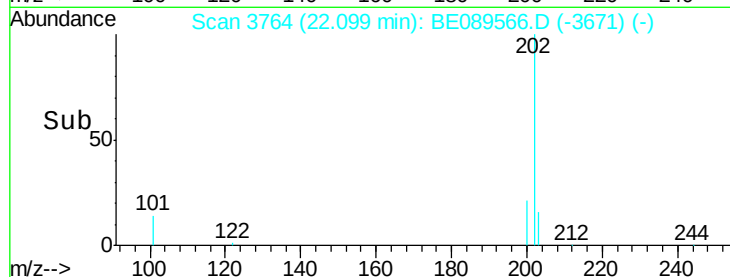
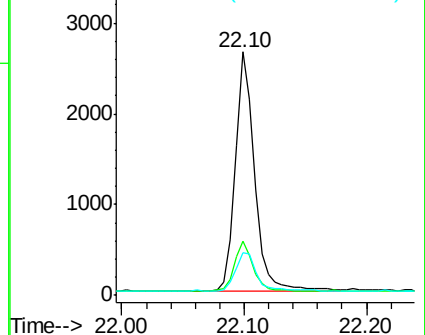
203 17.2 13.5 20.3



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



#18

Terphenyl-d14

Concen: 9.40 ng

RT: 22.36 min Scan# 3814

Delta R.T. 0.00 min

Lab File: BE089566.D

Acq: 7 Feb 2015 19:48

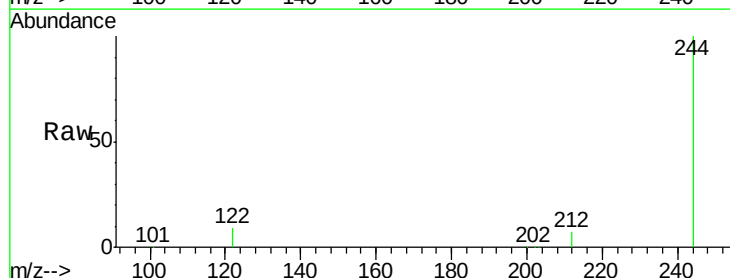
Tgt Ion: 244 Resp: 277970

Ion Ratio Lower Upper

244 100

212 6.5 5.8 8.8

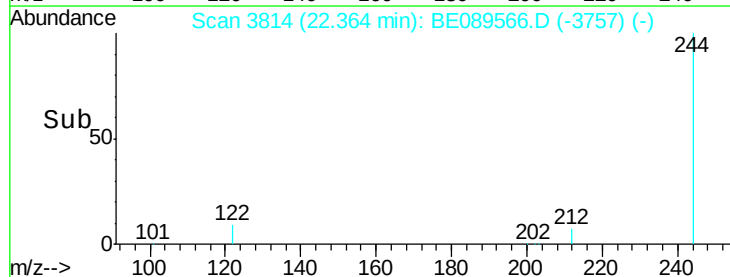
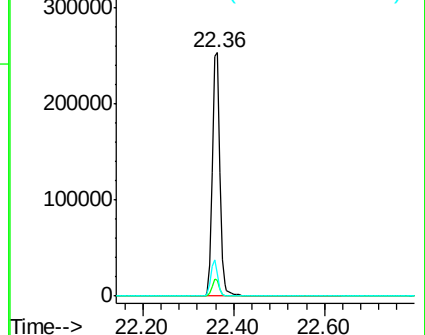
122 9.2 12.6 19.0#

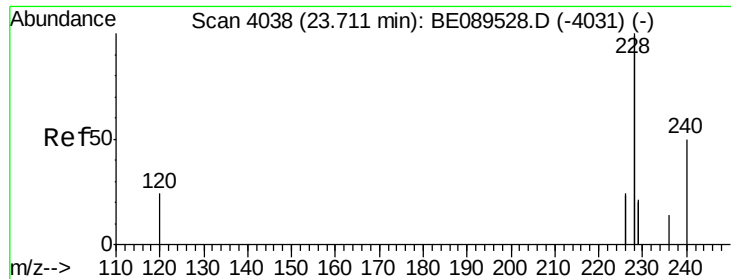


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#19

Benzo(a)anthracene

Concen: 0.06 ng

RT: 23.71 min Scan# 4039

Delta R.T. -0.00 min

Lab File: BE089566.D

Acq: 7 Feb 2015 19:48

Instrument :

BNA_E

ClientSampleId :

MDL-05-W

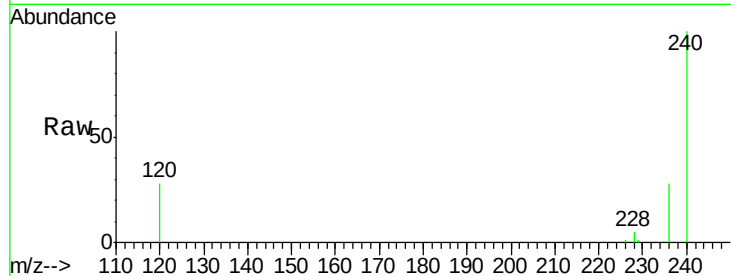
Tgt Ion:228 Resp: 12567

Ion Ratio Lower Upper

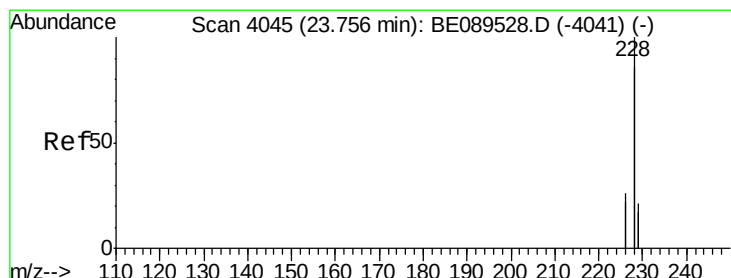
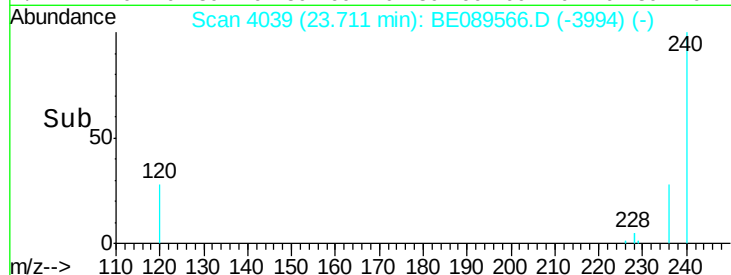
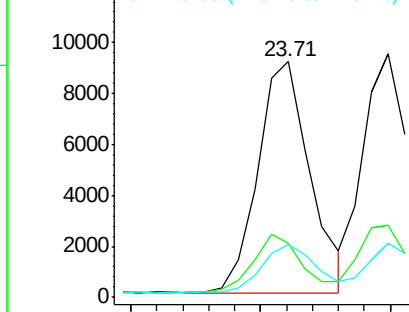
228 100

226 23.1 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: 0.07 ng

RT: 23.75 min Scan# 4045

Delta R.T. -0.01 min

Lab File: BE089566.D

Acq: 7 Feb 2015 19:48

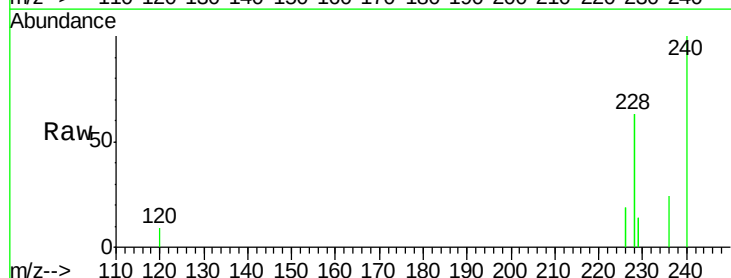
Tgt Ion:228 Resp: 14603

Ion Ratio Lower Upper

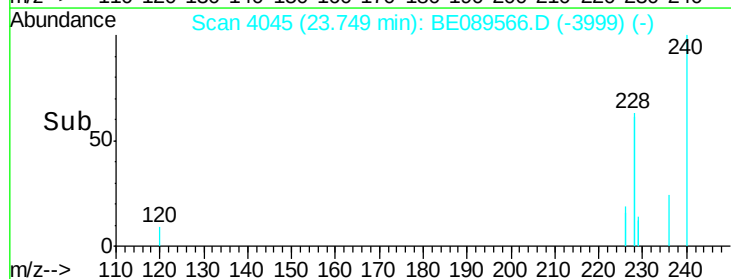
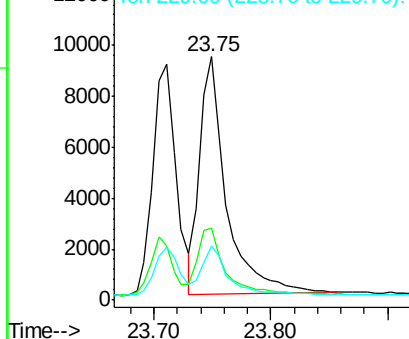
228 100

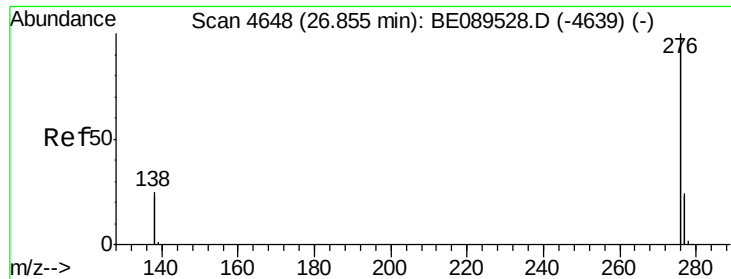
226 29.5 21.0 31.4

229 22.4 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: 0.02 ng

RT: 26.84 min Scan# 4647

Delta R.T. -0.01 min

Lab File: BE089566.D

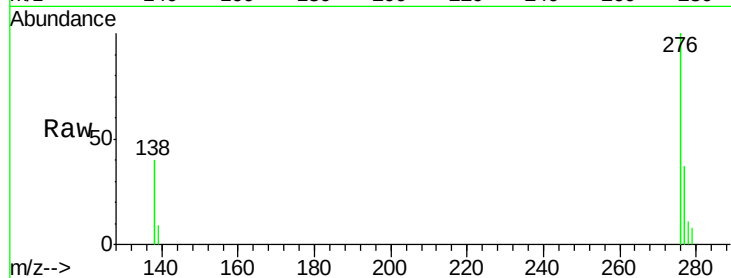
Acq: 7 Feb 2015 19:48

Instrument :

BNA_E

ClientSampleId :

MDL-05-W



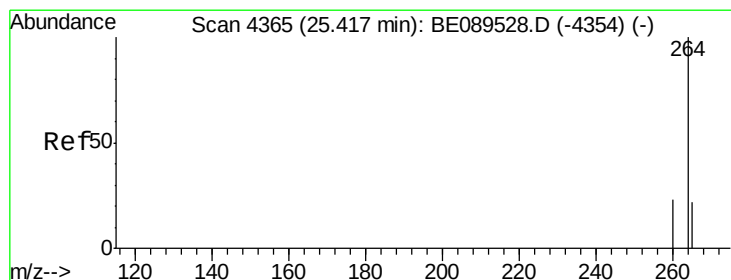
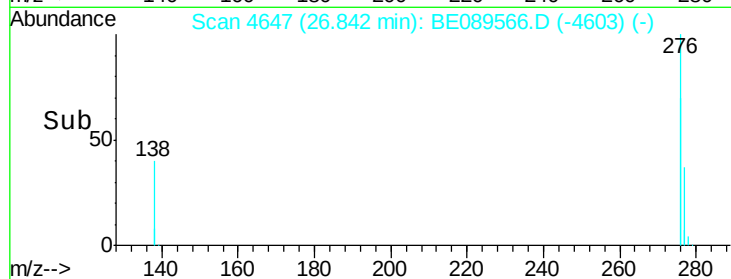
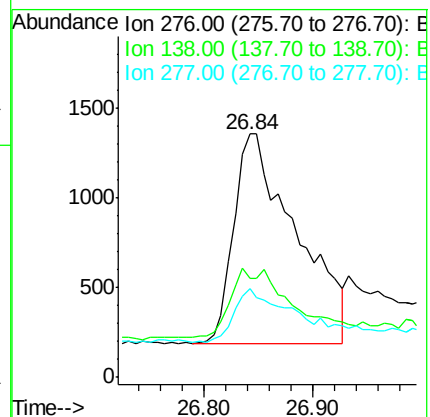
Tgt Ion:276 Resp: 4646

Ion Ratio Lower Upper

276 100

138 33.3 23.0 34.4

277 29.5 19.9 29.9



#22

Perylene-d12

Concen: 5.00 ng

RT: 25.41 min Scan# 4365

Delta R.T. -0.01 min

Lab File: BE089566.D

Acq: 7 Feb 2015 19:48

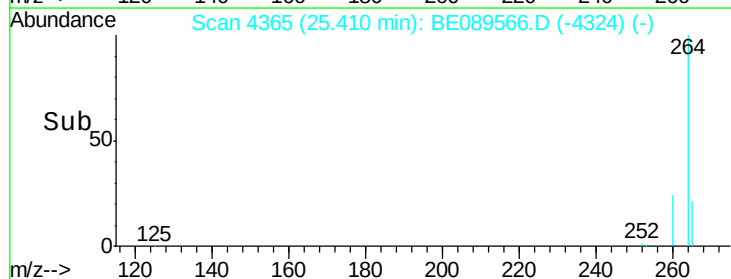
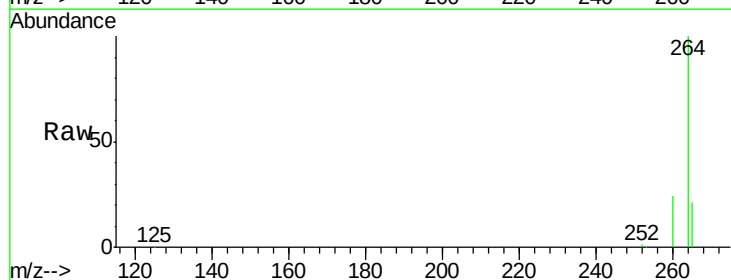
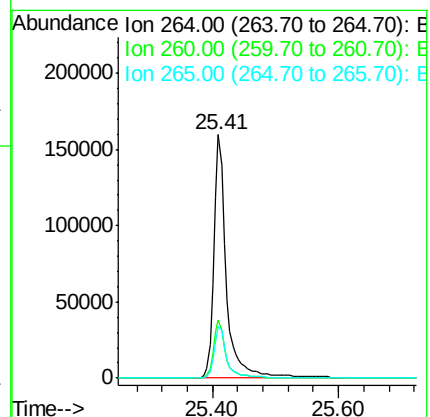
Tgt Ion:264 Resp: 220244

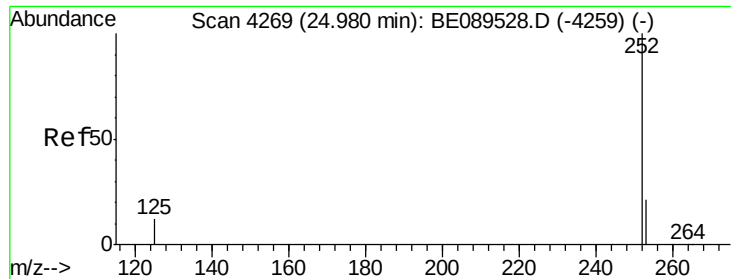
Ion Ratio Lower Upper

264 100

260 23.9 18.7 28.1

265 21.2 17.5 26.3

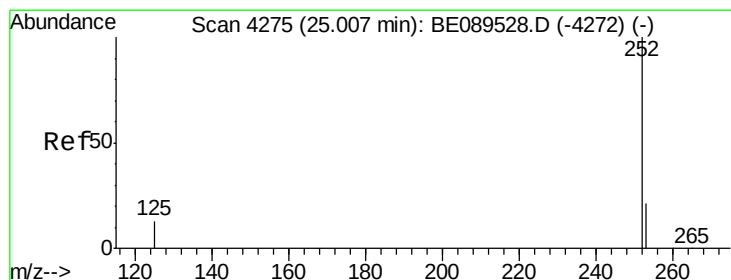
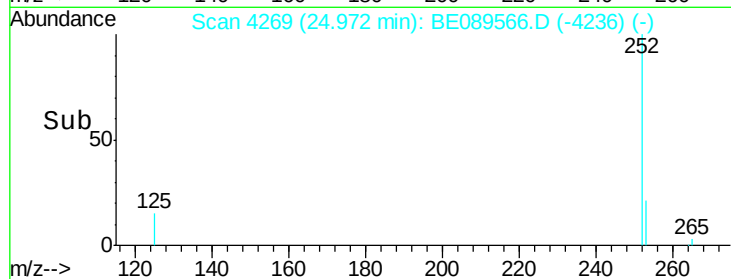
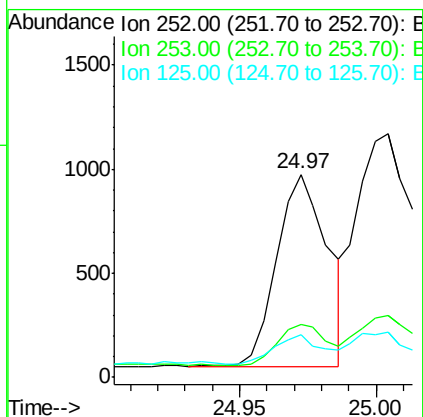
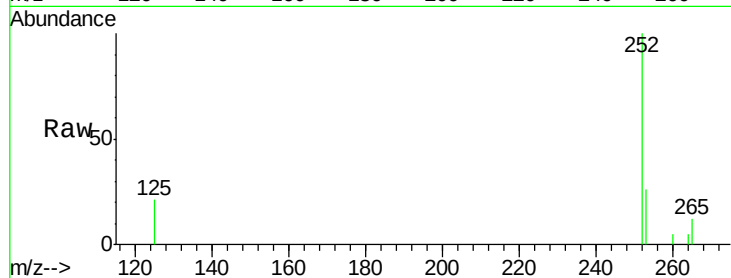




#23
Benzo(b)fluoranthene
Concen: 0.03 ng
RT: 24.97 min Scan# 4269
Delta R.T. -0.01 min
Lab File: BE089566.D
Acq: 7 Feb 2015 19:48

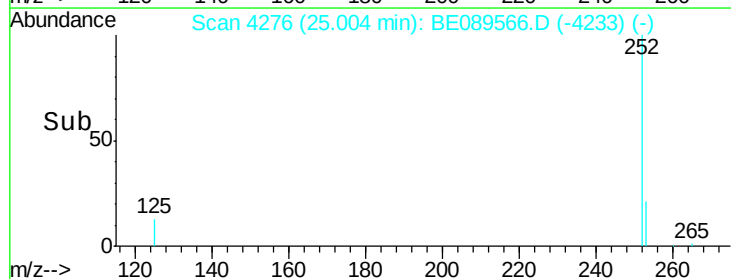
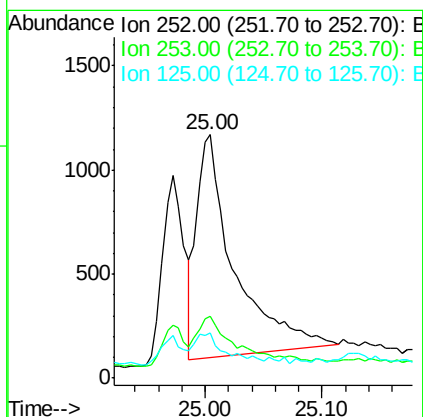
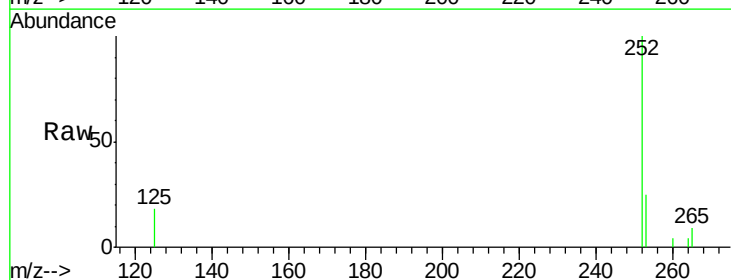
Instrument :
BNA_E
ClientSampleId :
MDL-05-W

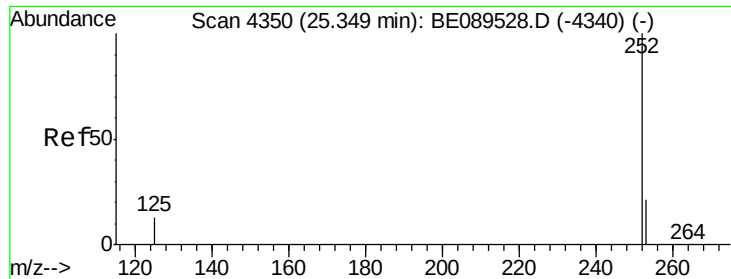
Tgt Ion:252 Resp: 1193
Ion Ratio Lower Upper
252 100
253 26.4 17.4 26.0#
125 20.8 10.4 15.6#



#24
Benzo(k)fluoranthene
Concen: 0.05 ng
RT: 25.00 min Scan# 4276
Delta R.T. -0.00 min
Lab File: BE089566.D
Acq: 7 Feb 2015 19:48

Tgt Ion:252 Resp: 2408
Ion Ratio Lower Upper
252 100
253 25.3 17.2 25.8
125 18.5 10.6 15.8#





#25

Benzo(a)pyrene

Concen: 0.03 ng

RT: 25.34 min Scan# 4349

Delta R.T. -0.01 min

Lab File: BE089566.D

Acq: 7 Feb 2015 19:48

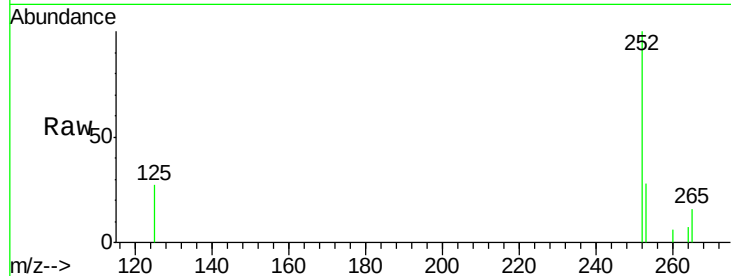
Instrument :

BNA_E

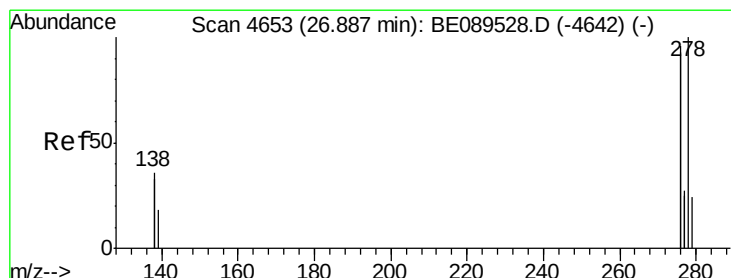
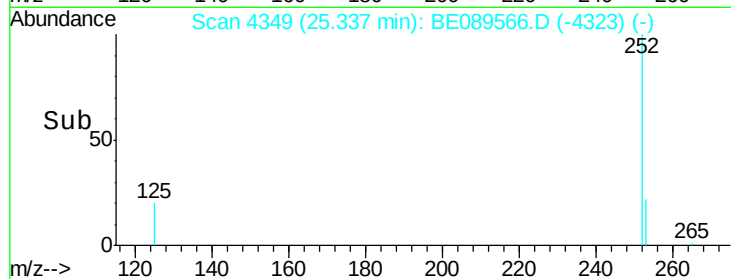
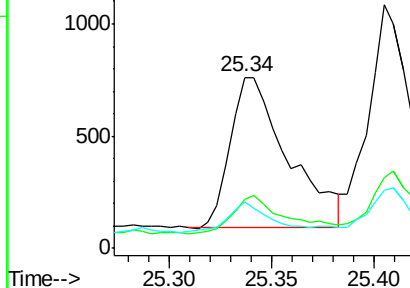
ClientSampled :

MDL-05-W

Tgt Ion:	252	Resp:	1299
Ion Ratio	Lower	Upper	
252	100		
253	28.4	17.8	26.6#
125	27.1	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

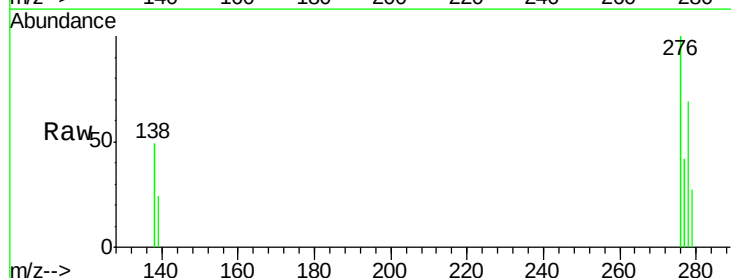
RT: 26.87 min Scan# 4652

Delta R.T. -0.01 min

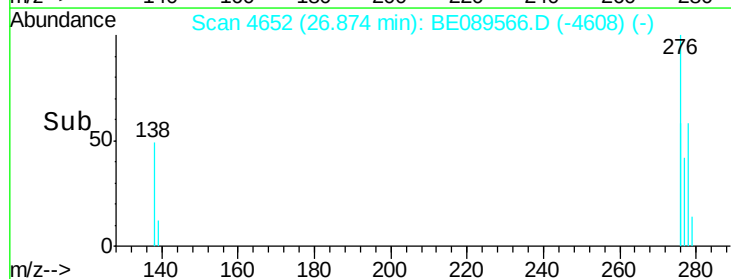
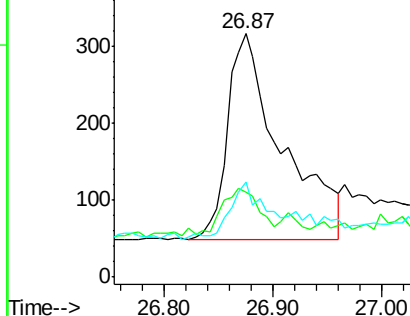
Lab File: BE089566.D

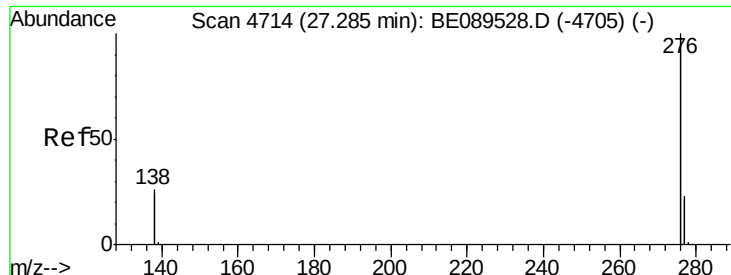
Acq: 7 Feb 2015 19:48

Tgt Ion:	278	Resp:	925
Ion Ratio	Lower	Upper	
278	100		
139	35.0	15.7	23.5#
279	38.8	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: 0.03 ng

RT: 27.27 min Scan# 4712

Delta R.T. -0.02 min

Lab File: BE089566.D

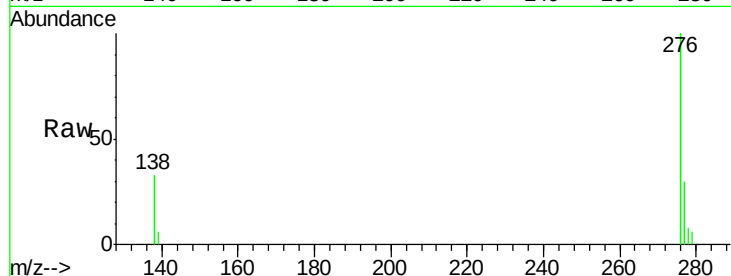
Acq: 7 Feb 2015 19:48

Instrument :

BNA_E

ClientSampleId :

MDL-05-W



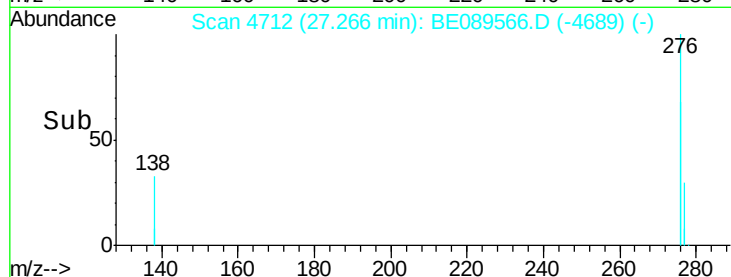
Tgt Ion: 276 Resp: 7342

Ion Ratio Lower Upper

276 100

277 30.5 18.6 27.8#

138 33.3 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

