

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE021015\
 Data File : BE089565.D
 Acq On : 11 Feb 2015 1:35
 Operator : TP/IZ
 Sample : MDL-04-W
 Misc : MDL-WATER-0.1/0.2
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 MDL-04-W

Quant Time: Feb 11 02:35:50 2015
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIMPAH-BE021015.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Feb 11 01:27:13 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.42	152	58485	5.00	ng	0.00
2) Naphthalene-d8	12.32	136	213067	5.00	ng	0.00
6) Acenaphthene-d10	16.50	164	88316	5.00	ng	0.00
11) Phenanthrene-d10	19.84	188	139224	5.00	ng	0.00
16) Chrysene-d12	23.71	240	172499	5.00	ng	0.00
22) Perylene-d12	25.41	264	190651	5.00	ng	0.00

System Monitoring Compounds						
3) Nitrobenzene-d5	10.68	82	131339	9.62	ng	0.00
7) 2-Fluorobiphenyl	14.95	172	185048	7.73	ng	0.00
18) Terphenyl-d14	22.36	244	192743	8.97	ng	0.00

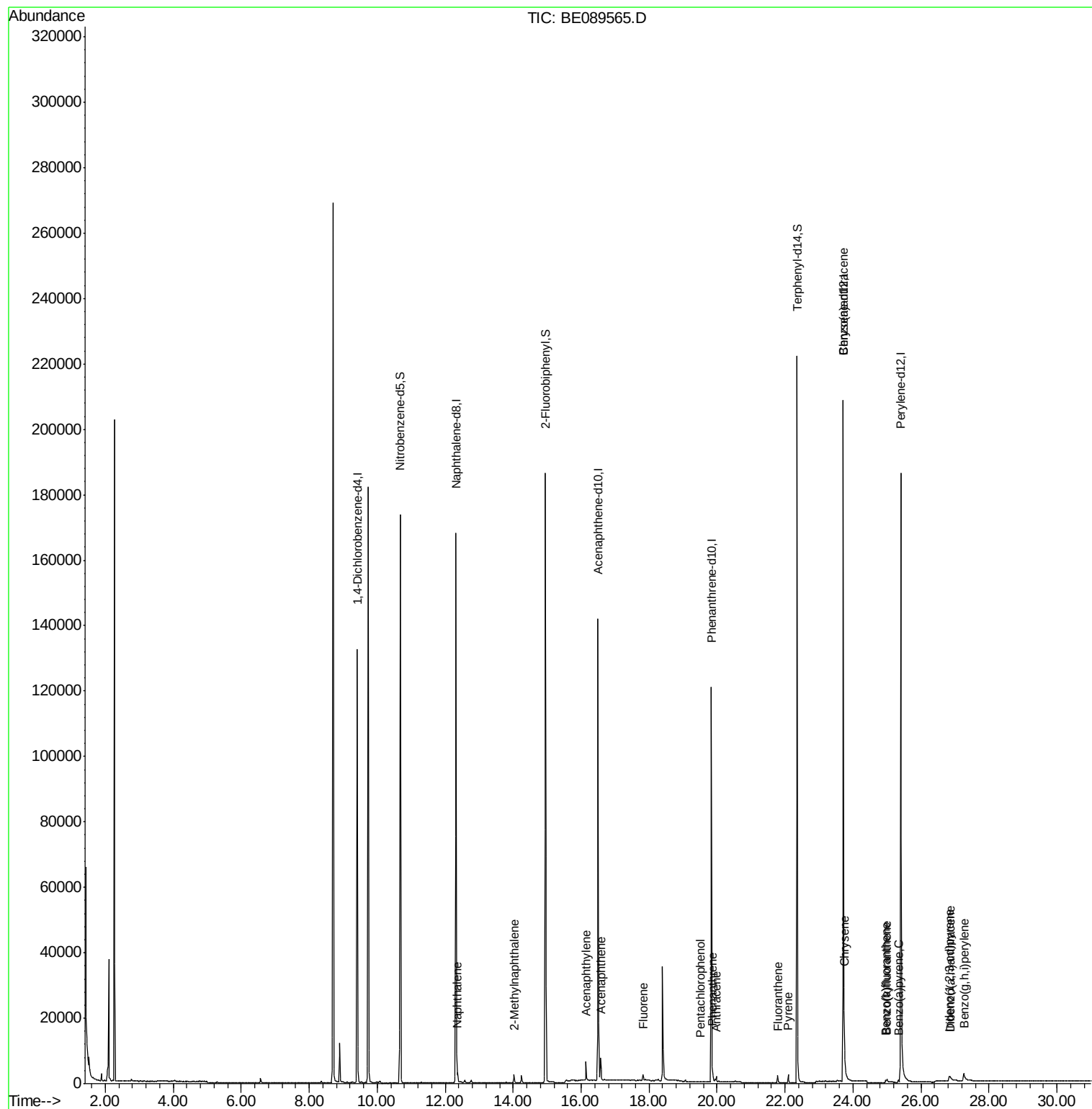
Target Compounds						Qvalue
4) Naphthalene	12.36	128	3398	0.07	ng	# 96
5) 2-Methylnaphthalene	14.03	142	1687	0.06	ng	97
8) Acenaphthylene	16.15	152	7912	0.05	ng	96
9) Acenaphthene	16.58	154	1461	0.06	ng	96
10) Fluorene	17.83	166	1408	0.06	ng	97
12) Pentachlorophenol	19.52	266	37	0.35	ng	# 86
13) Phenanthrene	19.88	178	2329	0.07	ng	98
14) Anthracene	19.98	178	1721	0.06	ng	98
15) Fluoranthene	21.78	202	1776	0.05	ng	97
17) Pyrene	22.10	202	2023	0.06	ng	98
19) Benzo(a)anthracene	23.70	228	9164	0.06	ng	94
20) Chrysene	23.74	228	12411	0.08	ng	97
21) Indeno(1,2,3-cd)pyrene	26.83	276	4871	0.06	ng	# 92
23) Benzo(b)fluoranthene	24.97	252	818	0.25	ng	# 85
24) Benzo(k)fluoranthene	25.00	252	1848	0.04	ng	# 88
25) Benzo(a)pyrene	25.33	252	999	0.21	ng	# 81
26) Dibenzo(a,h)anthracene	26.86	278	909	0.15	ng	# 65
27) Benzo(g,h,i)perylene	27.26	276	6365	0.04	ng	# 84

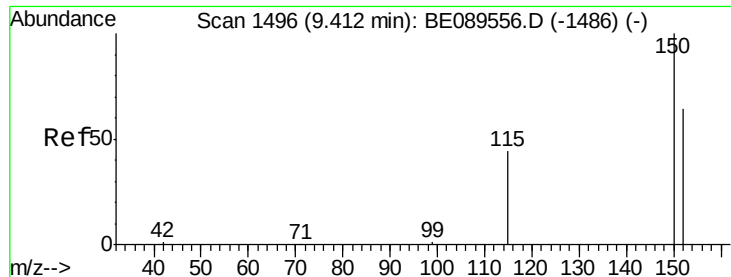
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 9.42 min Scan# 1496

Delta R.T. 0.00 min

Lab File: BE089565.D

Acq: 11 Feb 2015 1:35

Instrument :

BNA_E

ClientSampleId :

MDL-04-W

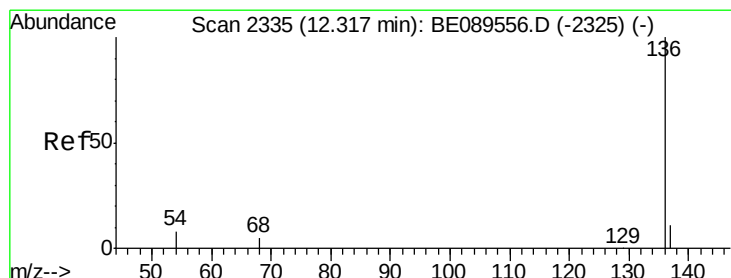
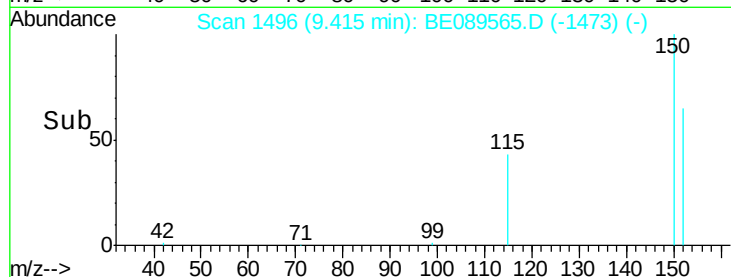
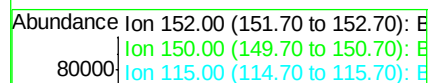
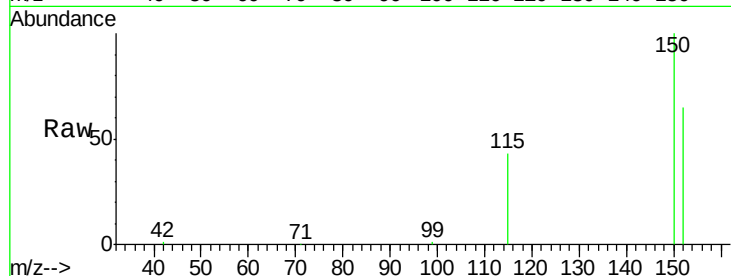
Tgt Ion:152 Resp: 58485

Ion Ratio Lower Upper

152 100

150 153.7 125.6 188.4

115 66.4 55.8 83.6



#2

Naphthalene-d8

Concen: 5.00 ng

RT: 12.32 min Scan# 2335

Delta R.T. 0.01 min

Lab File: BE089565.D

Acq: 11 Feb 2015 1:35

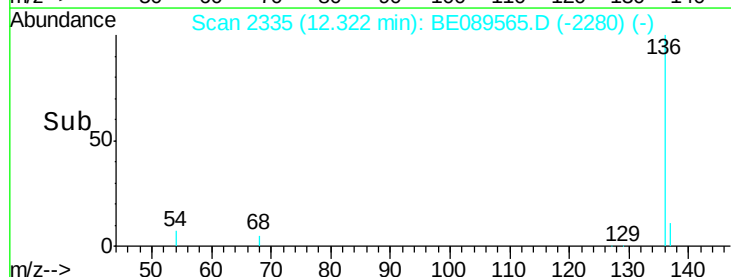
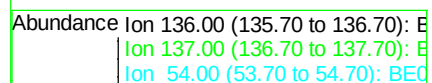
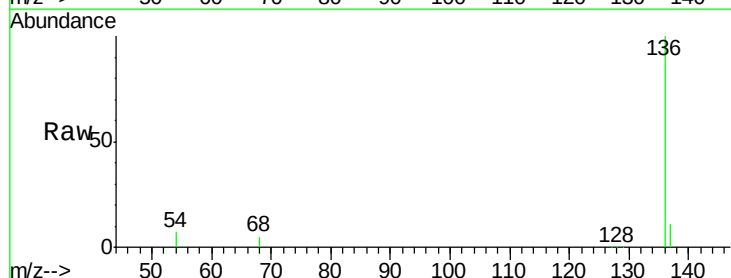
Tgt Ion:136 Resp: 213067

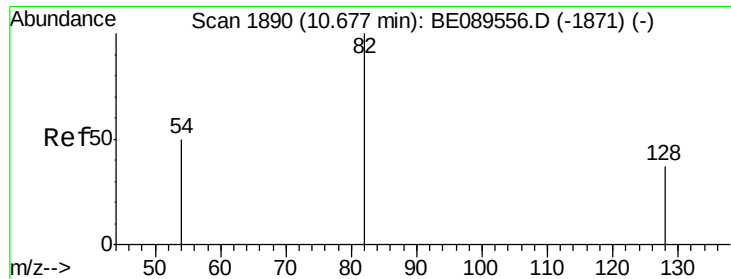
Ion Ratio Lower Upper

136 100

137 11.0 8.6 13.0

54 6.7 6.6 9.8





#3

Nitrobenzene-d5

Concen: 9.62 ng

RT: 10.68 min Scan# 1890

Delta R.T. 0.00 min

Lab File: BE089565.D

Acq: 11 Feb 2015 1:35

Instrument :

BNA_E

ClientSampleId :

MDL-04-W

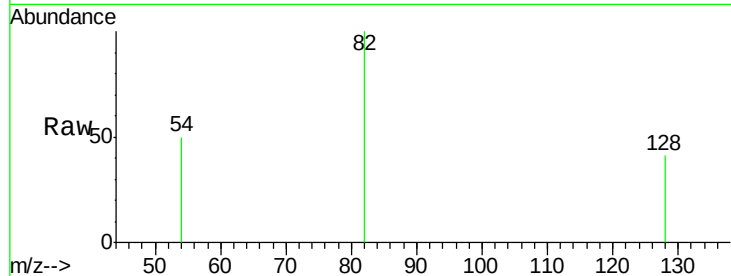
Tgt Ion: 82 Resp: 131339

Ion Ratio Lower Upper

82 100

128 40.7 30.4 45.6

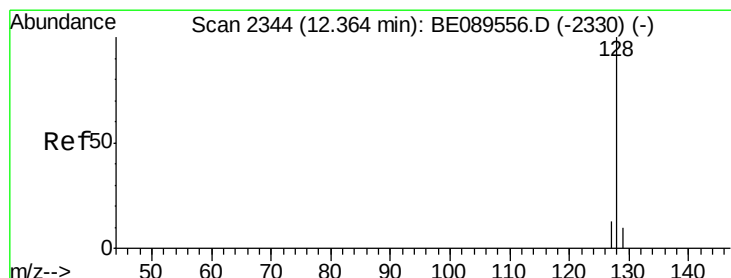
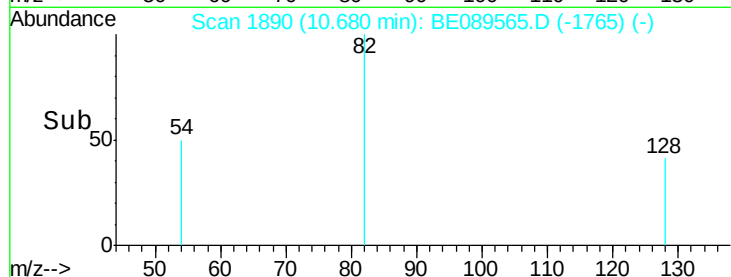
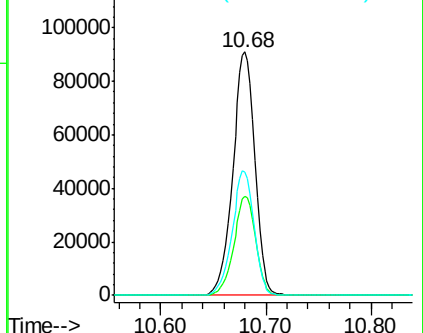
54 50.5 40.7 61.1



Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0



#4

Naphthalene

Concen: 0.07 ng

RT: 12.36 min Scan# 2343

Delta R.T. 0.00 min

Lab File: BE089565.D

Acq: 11 Feb 2015 1:35

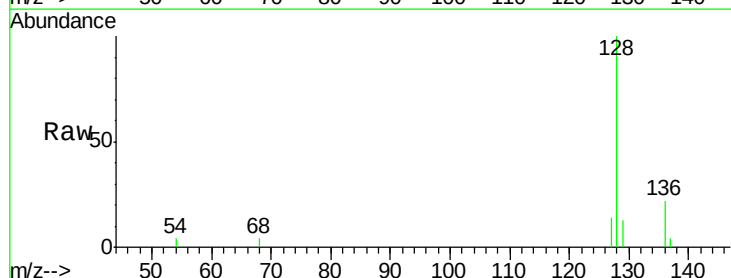
Tgt Ion: 128 Resp: 3398

Ion Ratio Lower Upper

128 100

129 12.8 8.5 12.7#

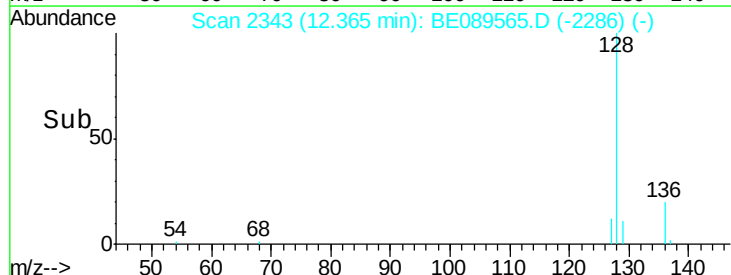
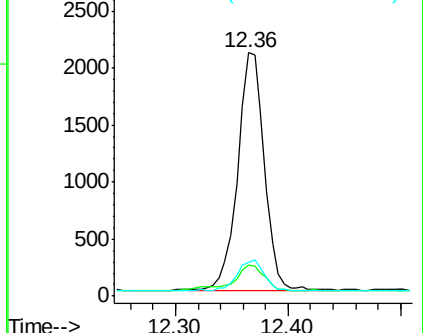
127 14.0 10.6 15.8

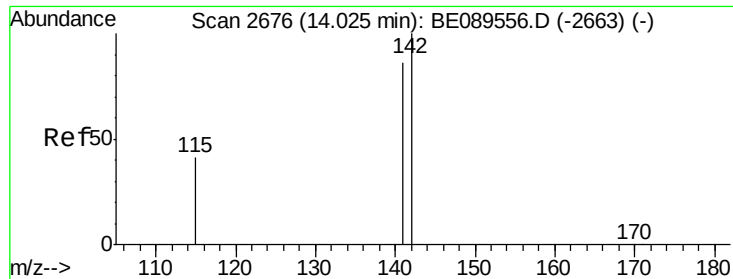


Abundance Ion 128.00 (127.70 to 128.70): E

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: 14.03 min Scan# 2675

Delta R.T. 0.00 min

Lab File: BE089565.D

Acq: 11 Feb 2015 1:35

Instrument :

BNA_E

ClientSampleId :

MDL-04-W

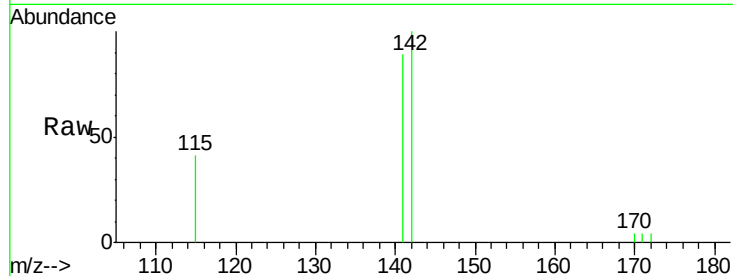
Tgt Ion:142 Resp: 1687

Ion Ratio Lower Upper

142 100

141 88.9 68.6 102.8

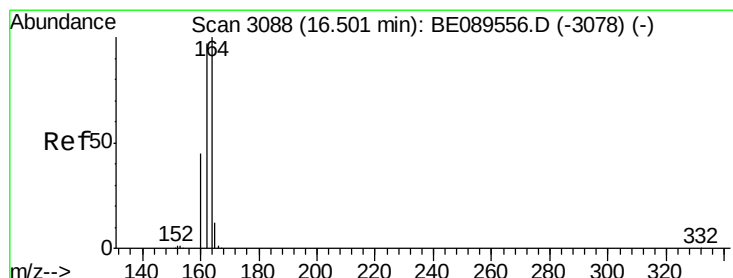
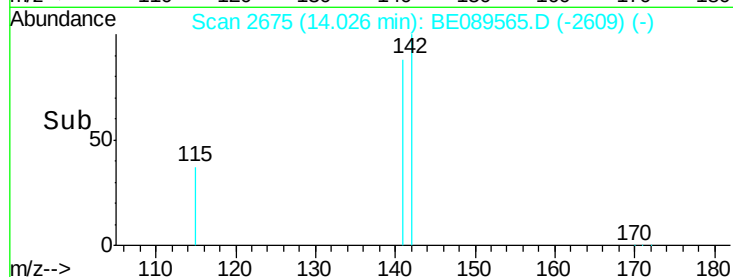
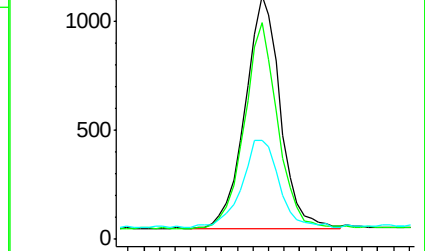
115 40.6 33.0 49.6



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: 16.50 min Scan# 3087

Delta R.T. -0.00 min

Lab File: BE089565.D

Acq: 11 Feb 2015 1:35

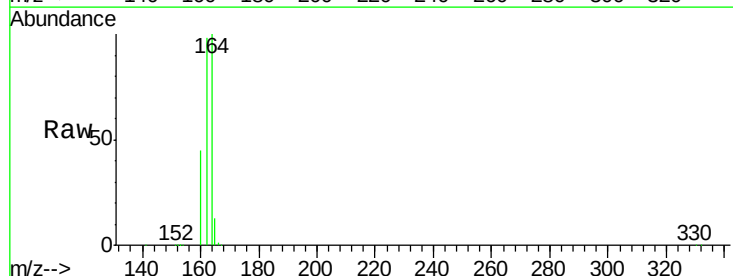
Tgt Ion:164 Resp: 88316

Ion Ratio Lower Upper

164 100

162 98.1 77.8 116.6

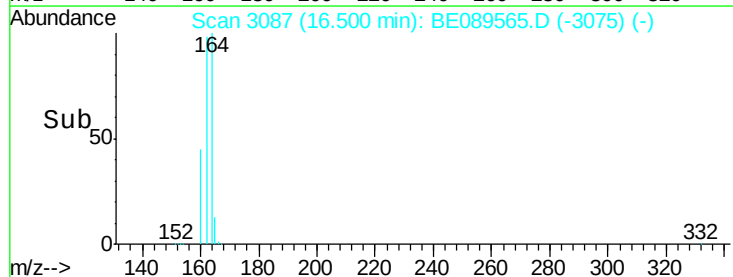
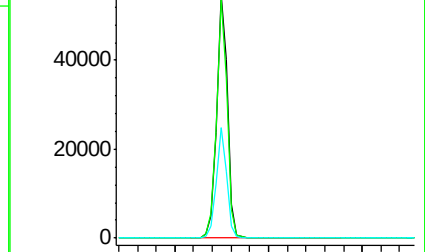
160 45.4 36.2 54.2

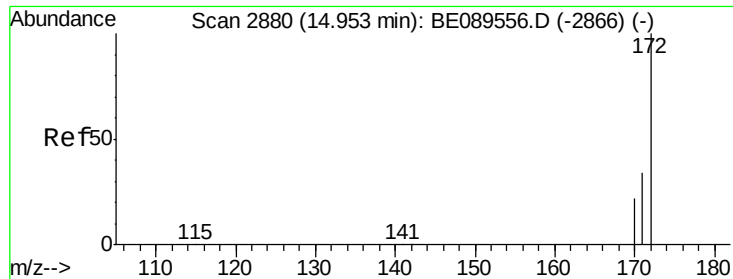


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#7

2-Fluorobiphenyl

Concen: 7.73 ng

RT: 14.95 min Scan# 2879

Delta R.T. 0.00 min

Lab File: BE089565.D

Acq: 11 Feb 2015 1:35

Instrument :

BNA_E

ClientSampleId :

MDL-04-W

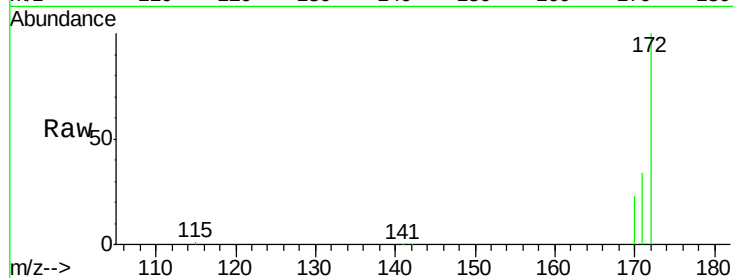
Tgt Ion:172 Resp: 185048

Ion Ratio Lower Upper

172 100

171 34.4 27.4 41.0

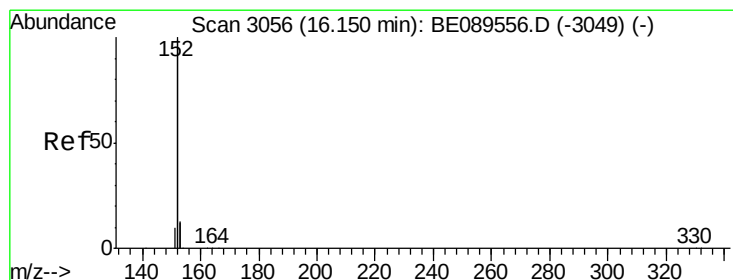
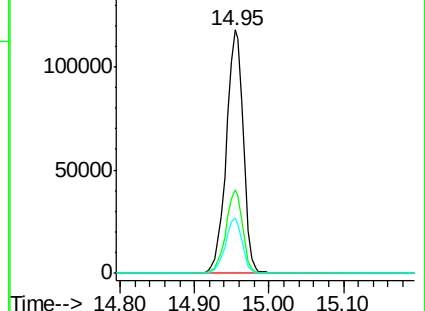
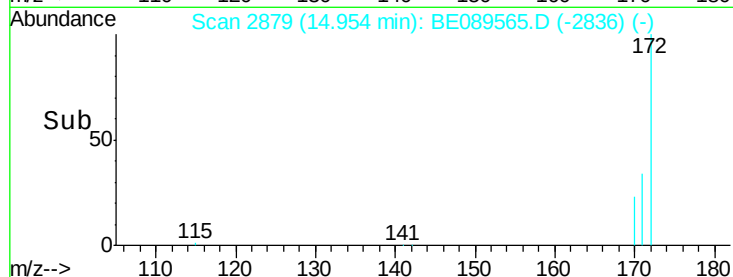
170 23.0 18.3 27.5



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: 16.15 min Scan# 3055

Delta R.T. -0.00 min

Lab File: BE089565.D

Acq: 11 Feb 2015 1:35

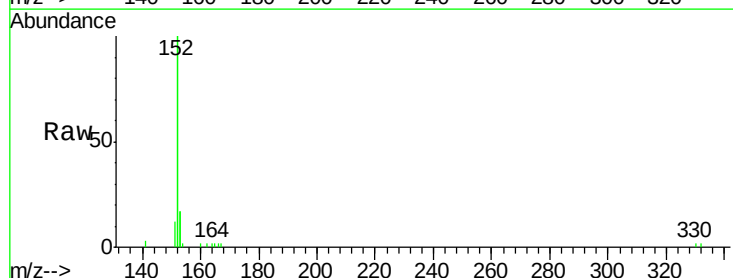
Tgt Ion:152 Resp: 7912

Ion Ratio Lower Upper

152 100

151 5.0 3.9 5.9

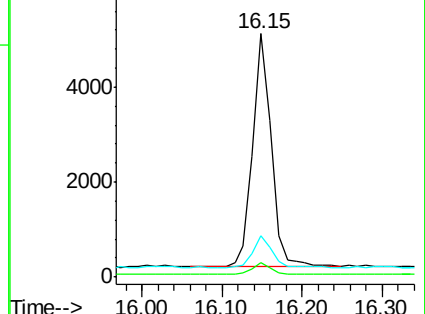
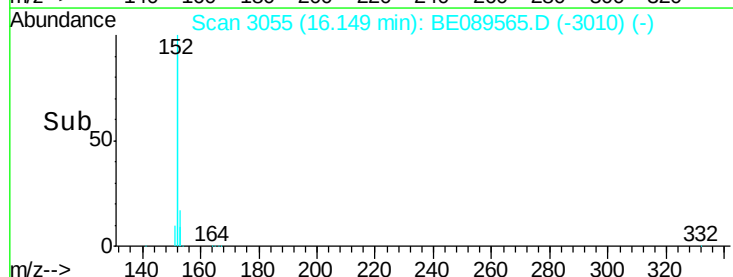
153 14.9 10.4 15.6

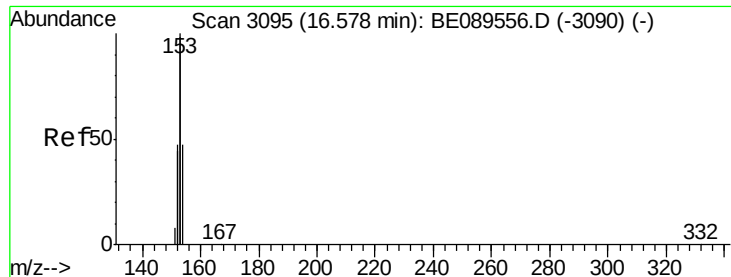


Abundance Ion 152.00 (151.70 to 152.70): E

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# 3094

Delta R.T. -0.00 min

Lab File: BE089565.D

Acq: 11 Feb 2015 1:35

Instrument :

BNA_E

ClientSampleId :

MDL-04-W

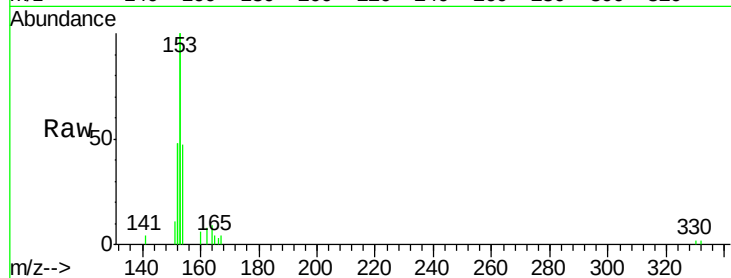
Tgt Ion:154 Resp: 1461

Ion Ratio Lower Upper

154 100

153 430.5 349.0 523.4

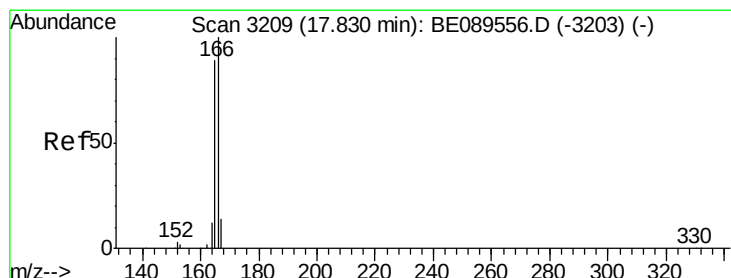
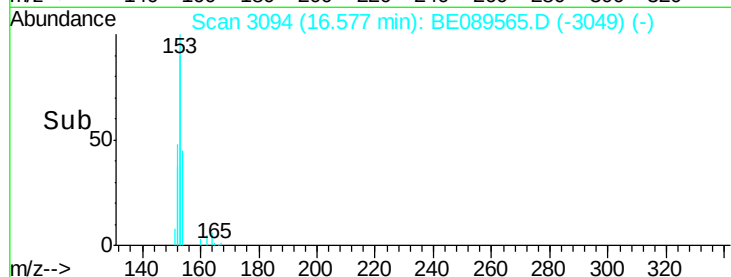
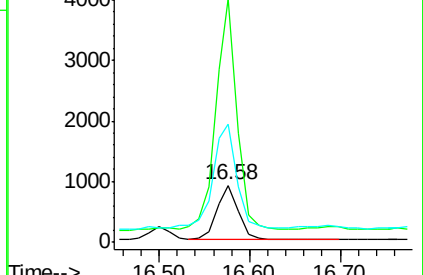
152 230.4 173.0 259.4



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# 3208

Delta R.T. -0.00 min

Lab File: BE089565.D

Acq: 11 Feb 2015 1:35

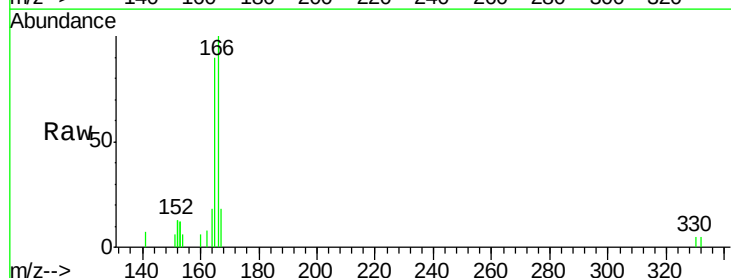
Tgt Ion:166 Resp: 1408

Ion Ratio Lower Upper

166 100

165 90.6 75.1 112.7

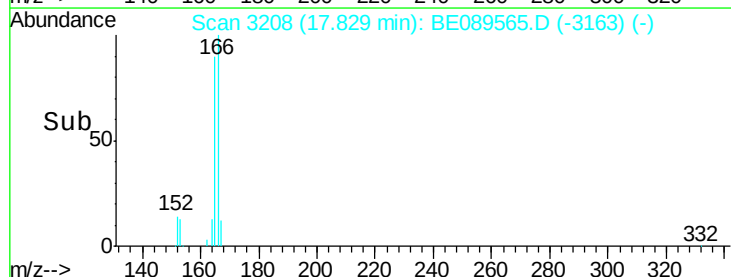
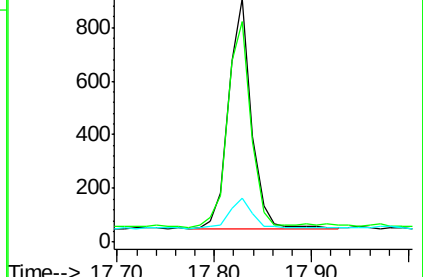
167 14.3 10.6 16.0

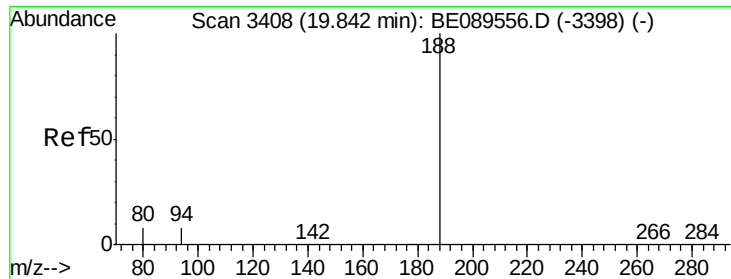


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

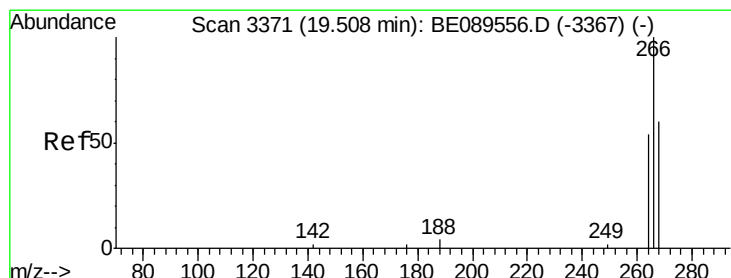
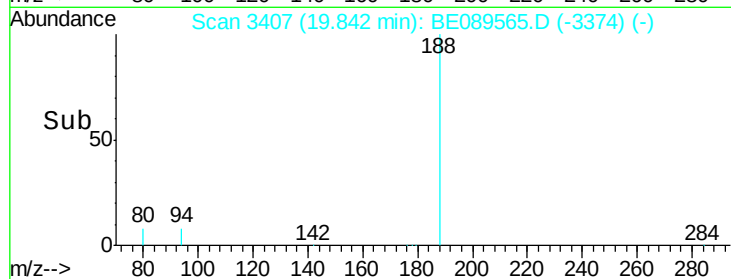
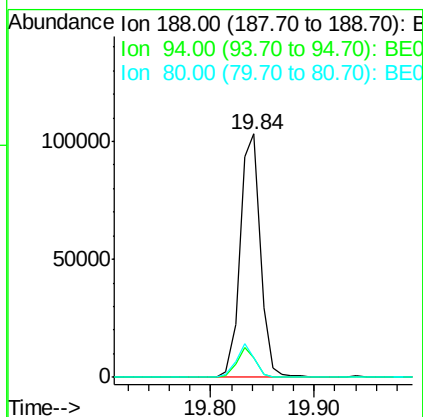
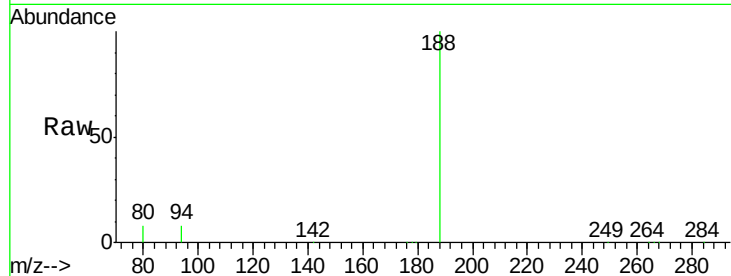




#11
Phenanthrene-d10
Concen: 5.00 ng
RT: 19.84 min Scan# 3407
Delta R.T. -0.00 min
Lab File: BE089565.D
Acq: 11 Feb 2015 1:35

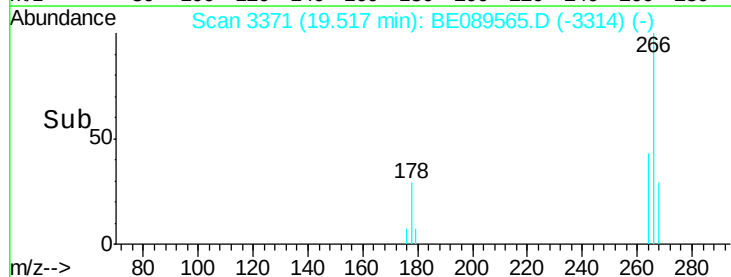
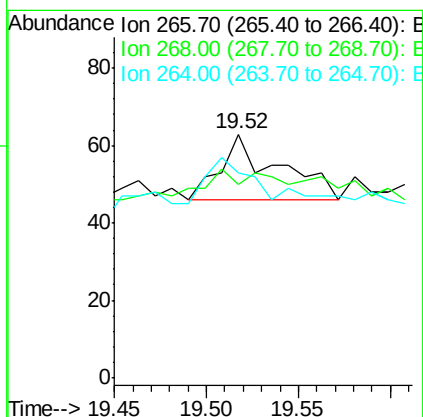
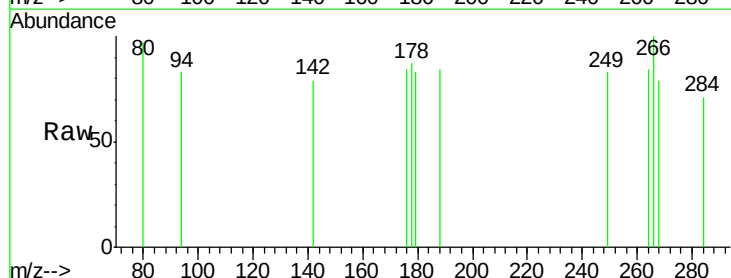
Instrument :
BNA_E
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MDL-04-W

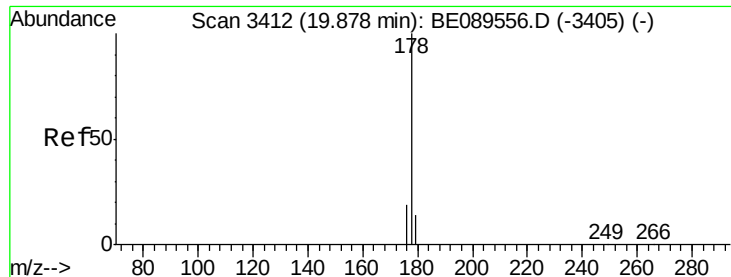
Tgt Ion:188 Resp: 139224
Ion Ratio Lower Upper
188 100
94 7.8 6.2 9.2
80 7.8 6.4 9.6



#12
Pentachlorophenol
Concen: 0.35 ng
RT: 19.52 min Scan# 3371
Delta R.T. 0.01 min
Lab File: BE089565.D
Acq: 11 Feb 2015 1:35

Tgt Ion:266 Resp: 37
Ion Ratio Lower Upper
266 100
268 79.4 57.9 86.9
264 84.1 54.6 81.8#





#13

Phenanthrene

Concen: 0.07 ng

RT: 19.88 min Scan# 3411

Delta R.T. -0.00 min

Lab File: BE089565.D

Acq: 11 Feb 2015 1:35

Instrument :

BNA_E

ClientSampleId :

MDL-04-W

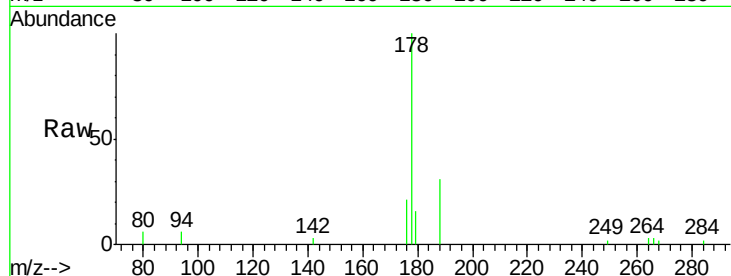
Tgt Ion:178 Resp: 2329

Ion Ratio Lower Upper

178 100

176 19.5 15.1 22.7

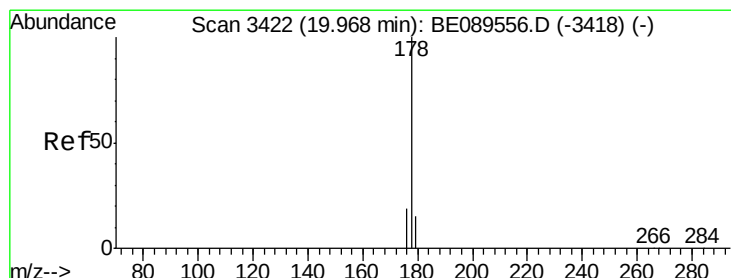
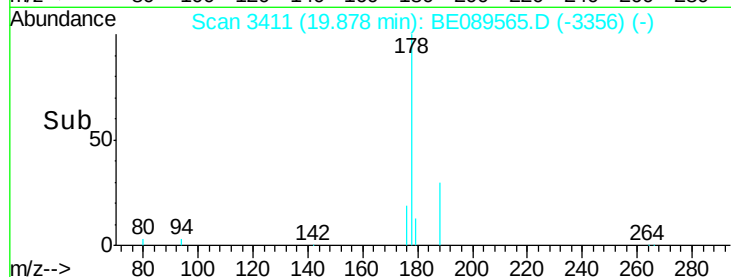
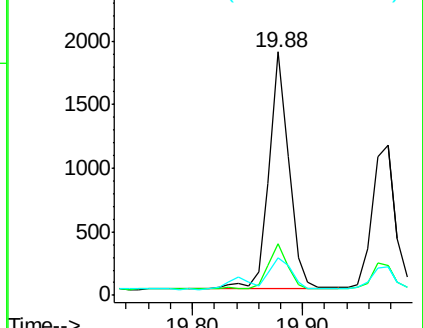
179 14.4 12.1 18.1



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#14

Anthracene

Concen: 0.06 ng

RT: 19.98 min Scan# 3422

Delta R.T. 0.01 min

Lab File: BE089565.D

Acq: 11 Feb 2015 1:35

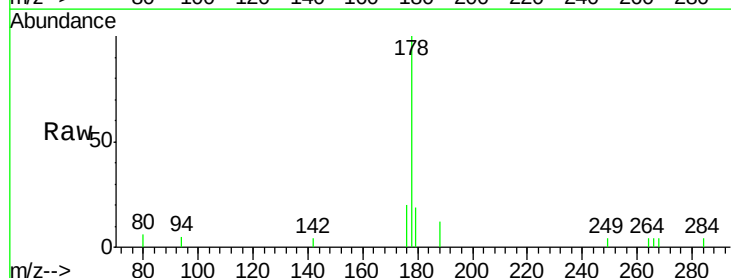
Tgt Ion:178 Resp: 1721

Ion Ratio Lower Upper

178 100

176 17.0 14.6 21.8

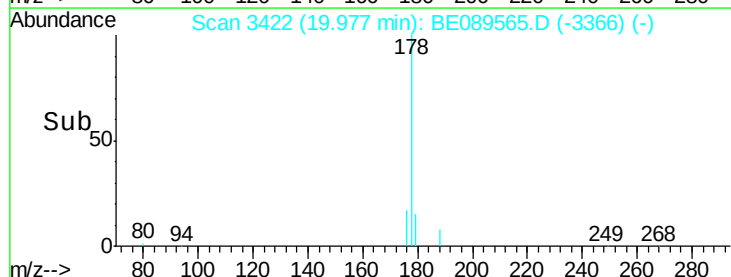
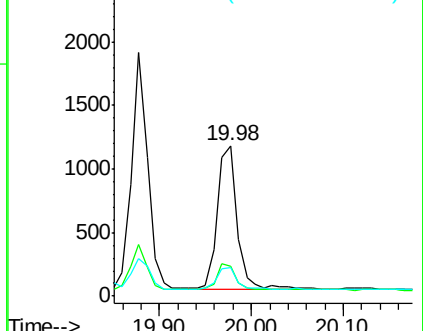
179 16.7 12.7 19.1

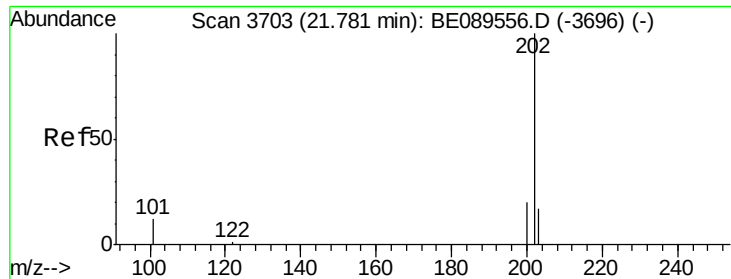


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

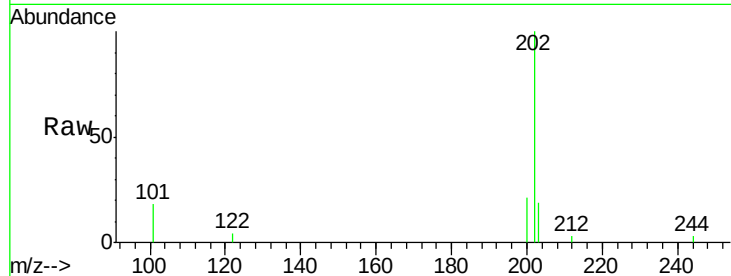




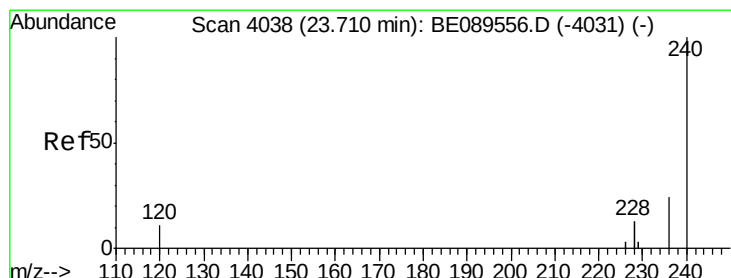
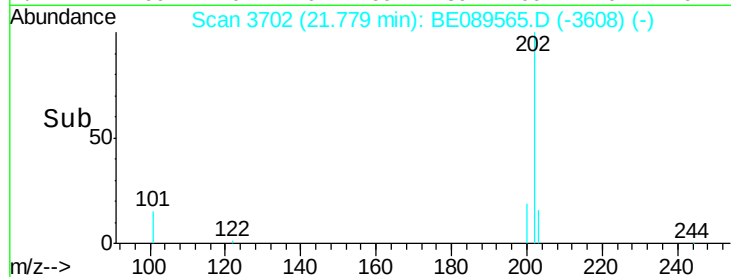
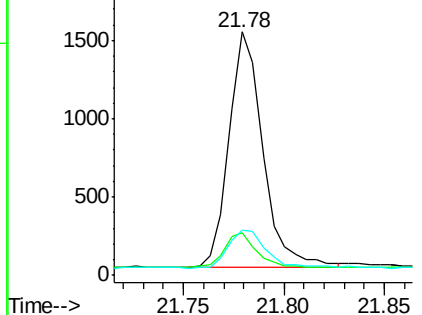
#15
 Fluoranthene
 Concen: 0.05 ng
 RT: 21.78 min Scan# 3702
 Delta R.T. -0.00 min
 Lab File: BE089565.D
 Acq: 11 Feb 2015 1:35

Instrument :
 BNA_E
 ClientSampleId :
 MDL-04-W

Tgt Ion: 202 Resp: 1776
 Ion Ratio Lower Upper
 202 100
 101 14.5 10.4 15.6
 203 18.0 13.6 20.4

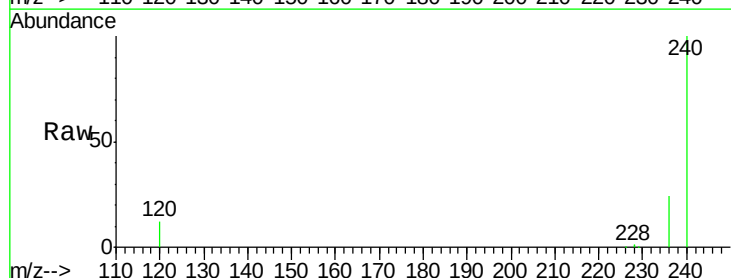


Abundance Ion 202.00 (201.70 to 202.70): E
 Ion 101.00 (100.70 to 101.70): E
 Ion 203.00 (202.70 to 203.70): E

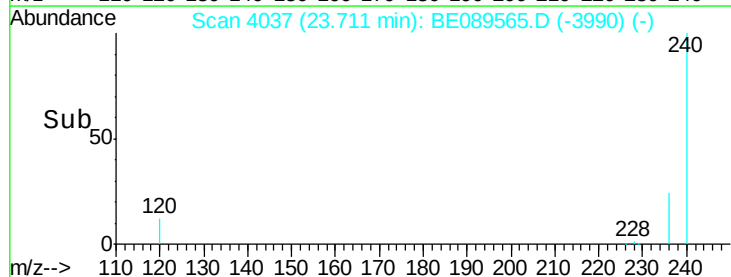
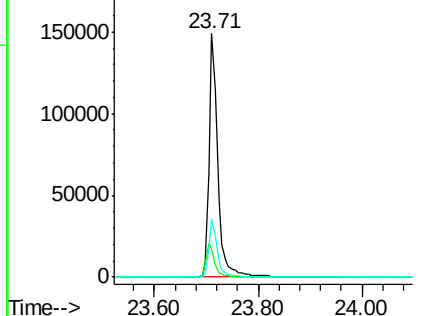


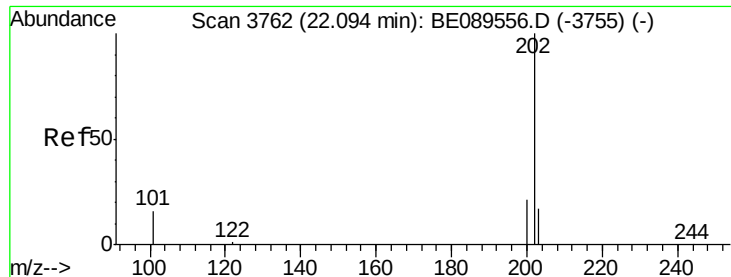
#16
 Chrysene-d12
 Concen: 5.00 ng
 RT: 23.71 min Scan# 4037
 Delta R.T. 0.00 min
 Lab File: BE089565.D
 Acq: 11 Feb 2015 1:35

Tgt Ion: 240 Resp: 172499
 Ion Ratio Lower Upper
 240 100
 120 11.6 9.3 13.9
 236 24.1 19.3 28.9



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

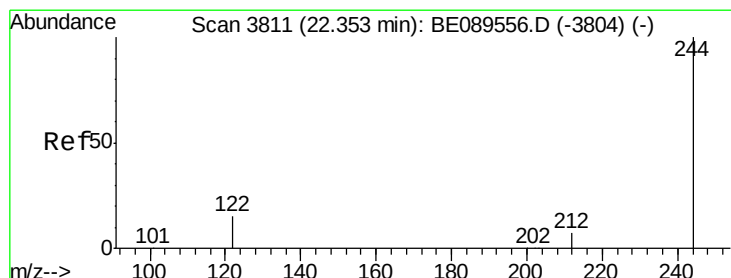
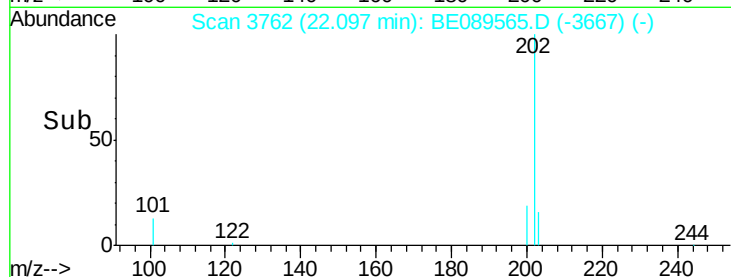
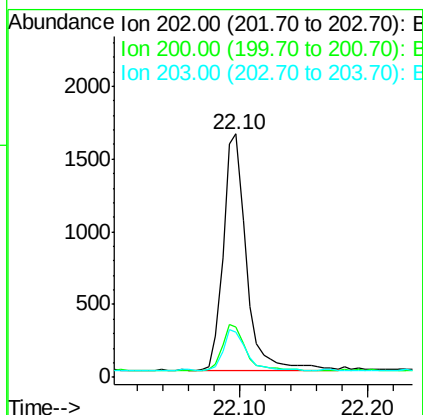
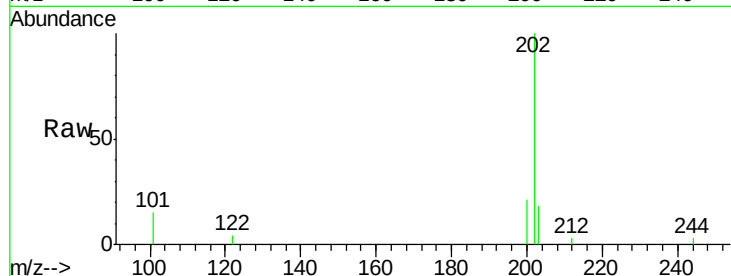




#17
 Pyrene
 Concen: 0.06 ng
 RT: 22.10 min Scan# 3762
 Delta R.T. 0.00 min
 Lab File: BE089565.D
 Acq: 11 Feb 2015 1:35

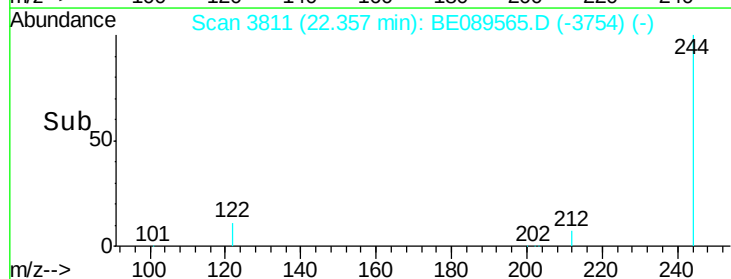
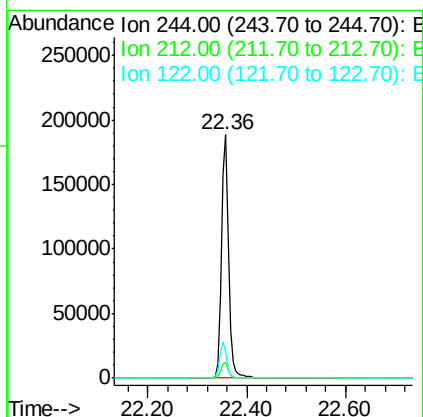
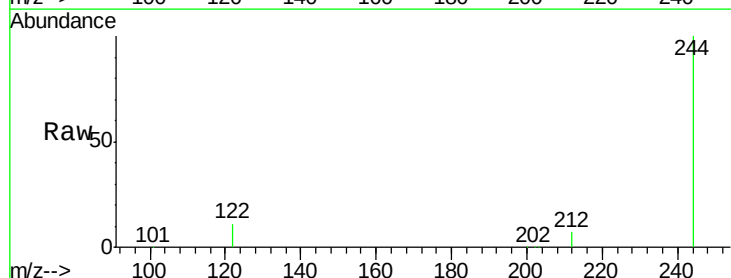
Instrument :
 BNA_E
 ClientSampleId :
 MDL-04-W

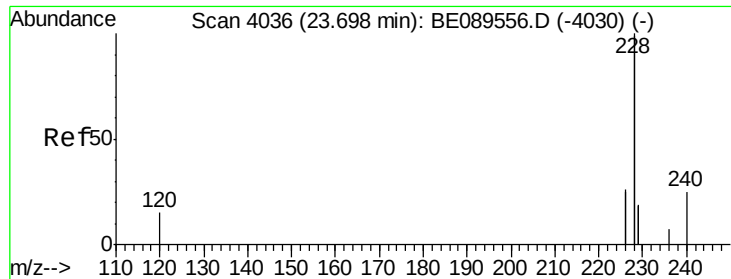
Tgt Ion: 202 Resp: 2023
 Ion Ratio Lower Upper
 202 100
 200 20.0 16.6 24.8
 203 16.7 14.2 21.2



#18
 Terphenyl-d14
 Concen: 8.97 ng
 RT: 22.36 min Scan# 3811
 Delta R.T. 0.00 min
 Lab File: BE089565.D
 Acq: 11 Feb 2015 1:35

Tgt Ion: 244 Resp: 192743
 Ion Ratio Lower Upper
 244 100
 212 6.5 5.9 8.9
 122 10.8 12.2 18.2#





#19

Benzo(a)anthracene

Concen: 0.06 ng

RT: 23.70 min Scan# 4036

Delta R.T. 0.01 min

Lab File: BE089565.D

Acq: 11 Feb 2015 1:35

Instrument :

BNA_E

ClientSampleId :

MDL-04-W

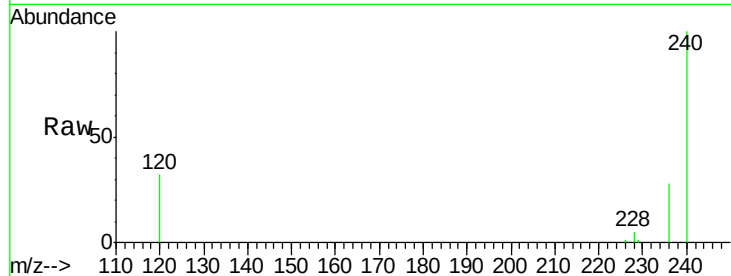
Tgt Ion:228 Resp: 9164

Ion Ratio Lower Upper

228 100

226 24.1 21.0 31.4

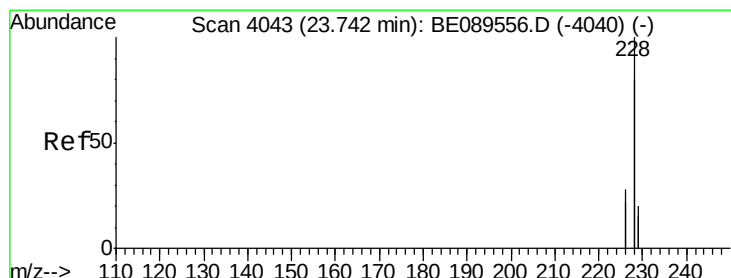
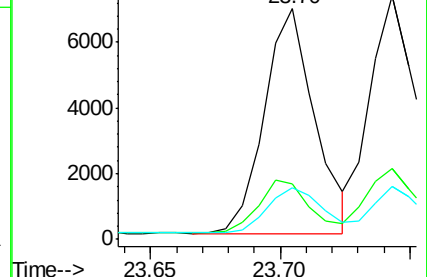
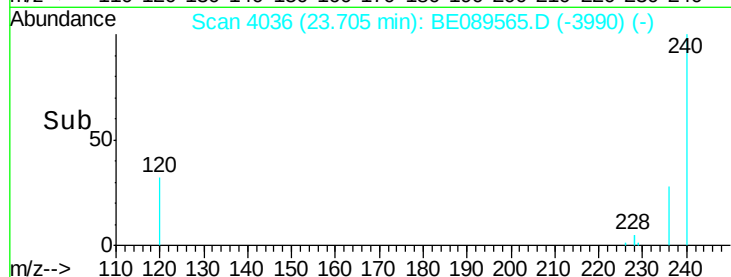
229 22.7 15.2 22.8



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



#20

Chrysene

Concen: 0.08 ng

RT: 23.74 min Scan# 4042

Delta R.T. 0.00 min

Lab File: BE089565.D

Acq: 11 Feb 2015 1:35

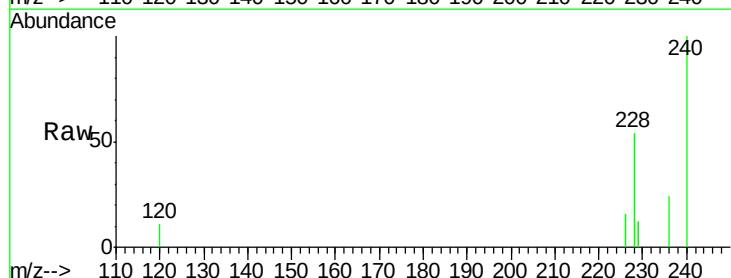
Tgt Ion:228 Resp: 12411

Ion Ratio Lower Upper

228 100

226 29.3 22.6 34.0

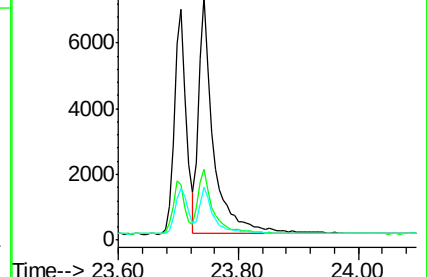
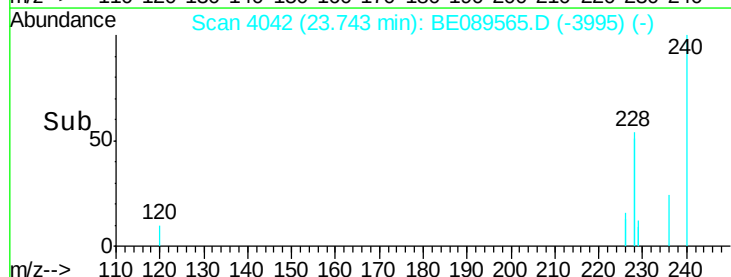
229 21.5 15.6 23.4

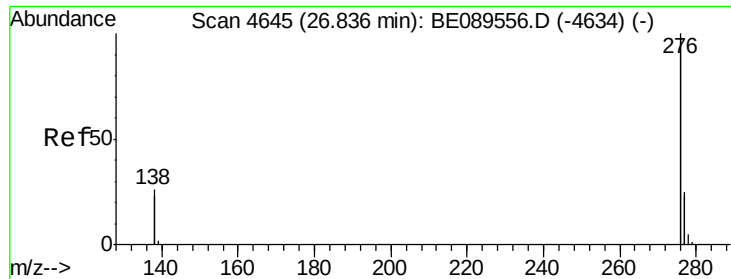


Abundance Ion 228.00 (227.70 to 228.70): E

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: 0.06 ng

RT: 26.83 min Scan# 4643

Delta R.T. -0.01 min

Lab File: BE089565.D

Acq: 11 Feb 2015 1:35

Instrument :

BNA_E

ClientSampleId :

MDL-04-W

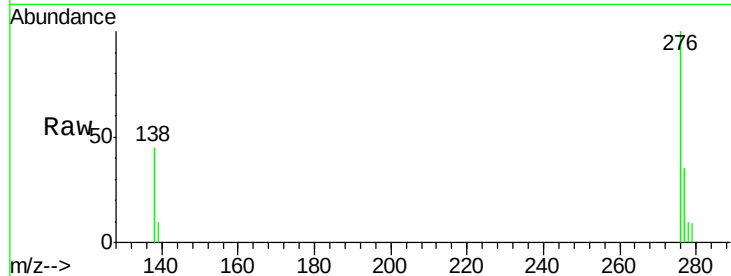
Tgt Ion:276 Resp: 4871

Ion Ratio Lower Upper

276 100

138 31.2 20.2 30.4#

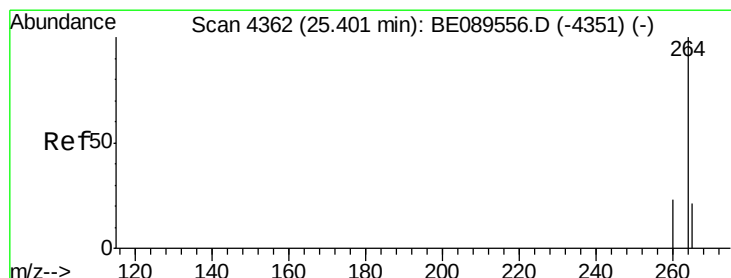
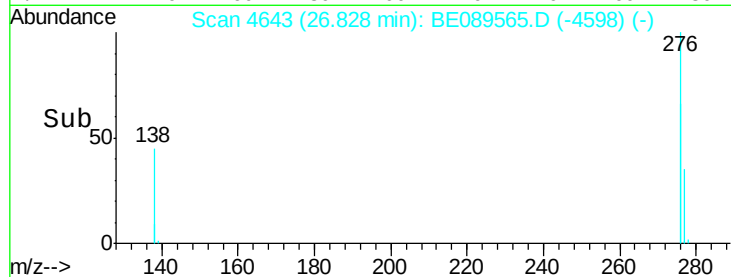
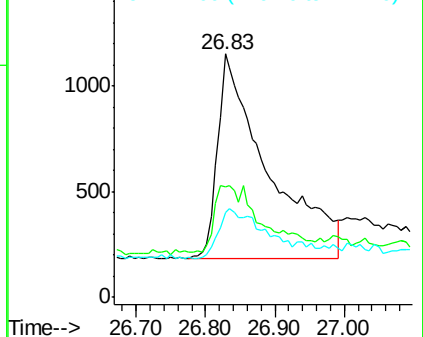
277 22.0 19.6 29.4



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



#22

Perylene-d12

Concen: 5.00 ng

RT: 25.41 min Scan# 4362

Delta R.T. 0.00 min

Lab File: BE089565.D

Acq: 11 Feb 2015 1:35

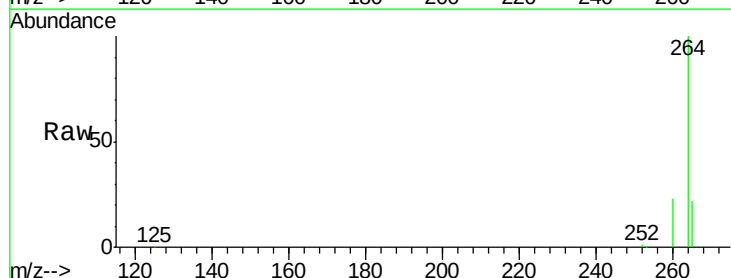
Tgt Ion:264 Resp: 190651

Ion Ratio Lower Upper

264 100

260 22.9 18.7 28.1

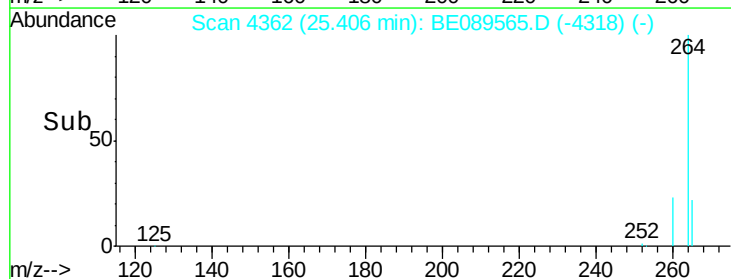
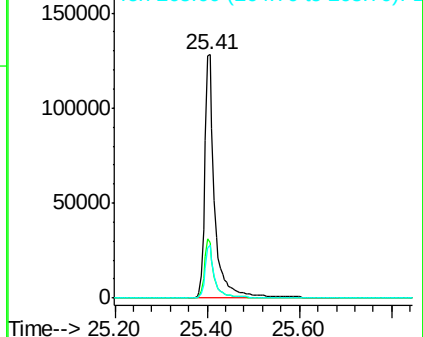
265 21.8 16.8 25.2

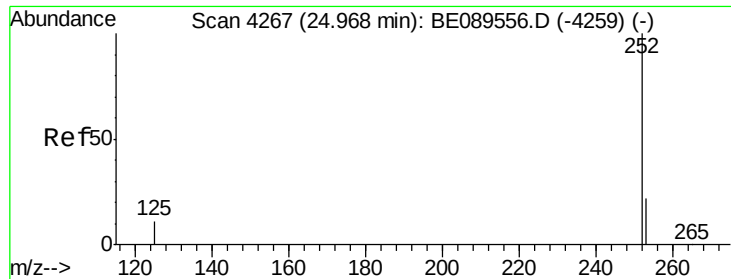


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#23

Benzo(b)fluoranthene

Concen: 0.25 ng

RT: 24.97 min Scan# 4266

Delta R.T. 0.00 min

Lab File: BE089565.D

Acq: 11 Feb 2015 1:35

Instrument :

BNA_E

ClientSampleId :

MDL-04-W

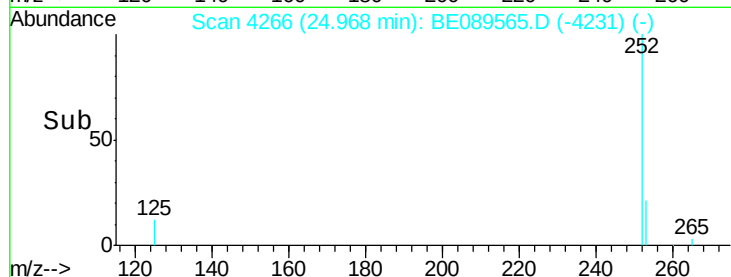
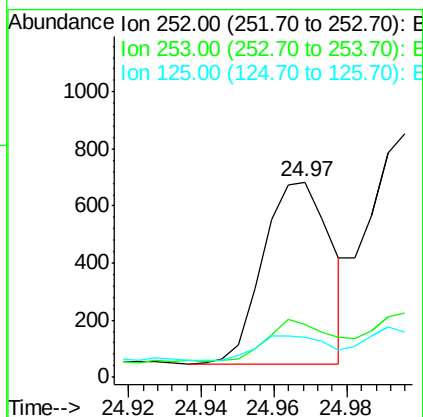
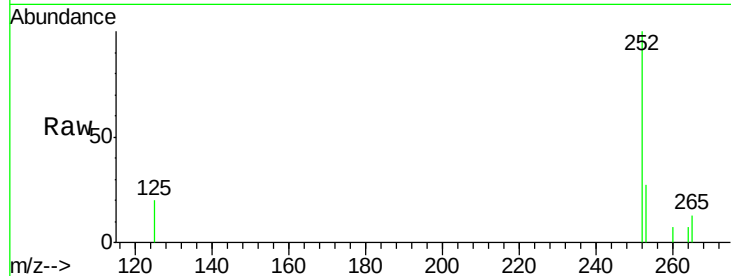
Tgt Ion:252 Resp: 818

Ion Ratio Lower Upper

252 100

253 27.3 17.8 26.8#

125 20.3 9.3 13.9#



#24

Benzo(k)fluoranthene

Concen: 0.04 ng

RT: 25.00 min Scan# 4272

Delta R.T. 0.00 min

Lab File: BE089565.D

Acq: 11 Feb 2015 1:35

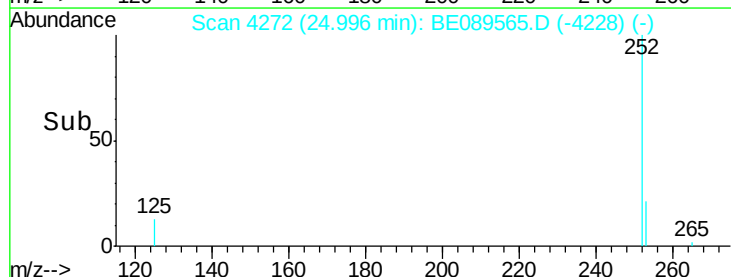
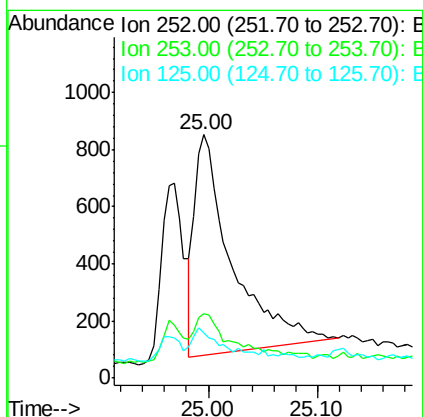
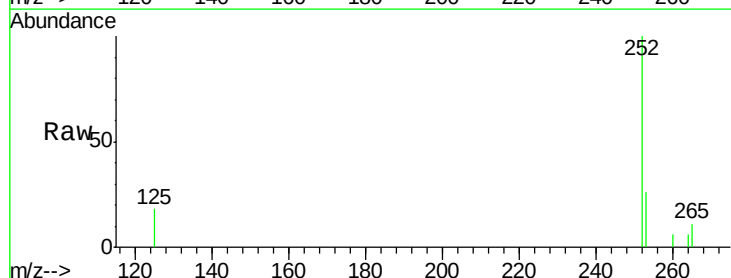
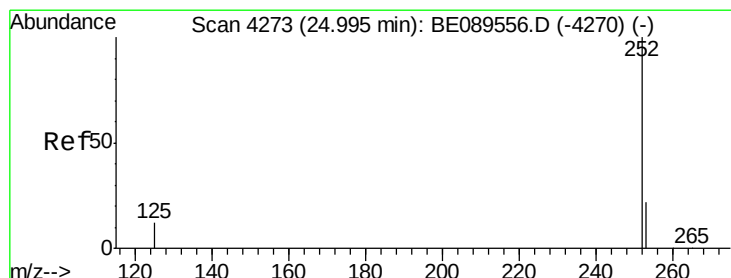
Tgt Ion:252 Resp: 1848

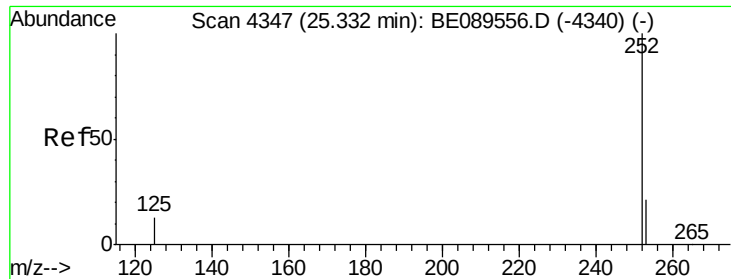
Ion Ratio Lower Upper

252 100

253 26.3 17.5 26.3

125 18.4 9.6 14.4#





#25

Benzo(a)pyrene

Concen: 0.21 ng

RT: 25.33 min Scan# 4346

Delta R.T. 0.00 min

Lab File: BE089565.D

Acq: 11 Feb 2015 1:35

Instrument :

BNA_E

ClientSampleId :

MDL-04-W

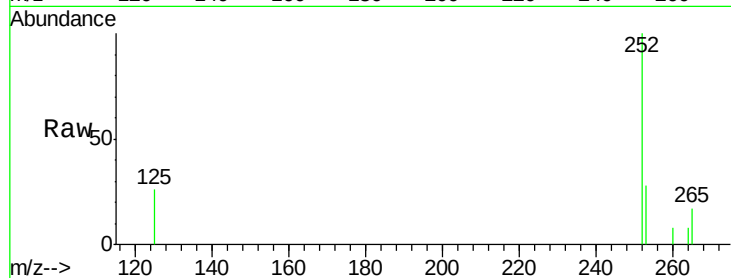
Tgt Ion: 252 Resp: 999

Ion Ratio Lower Upper

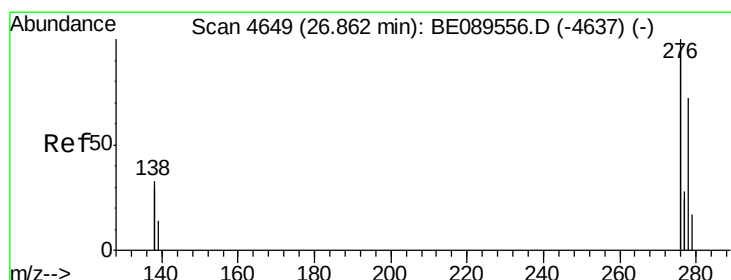
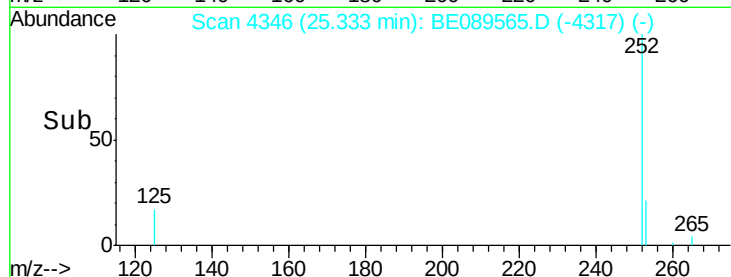
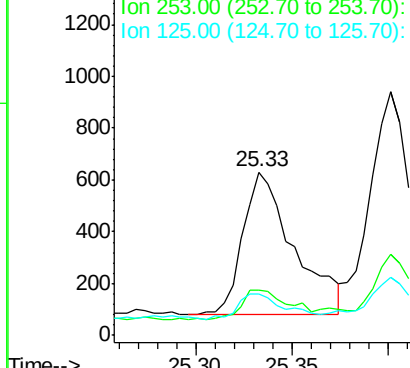
252 100

253 27.8 17.4 26.0#

125 25.7 11.1 16.7#



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: 0.15 ng

RT: 26.86 min Scan# 4648

Delta R.T. -0.00 min

Lab File: BE089565.D

Acq: 11 Feb 2015 1:35

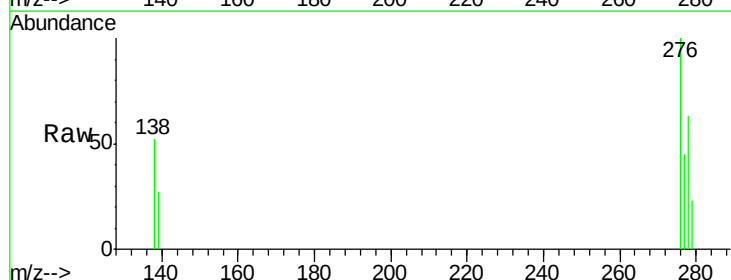
Tgt Ion: 278 Resp: 909

Ion Ratio Lower Upper

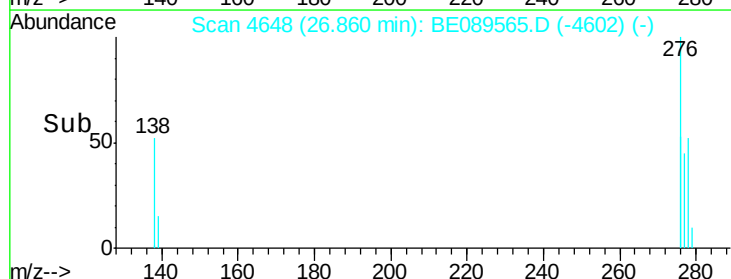
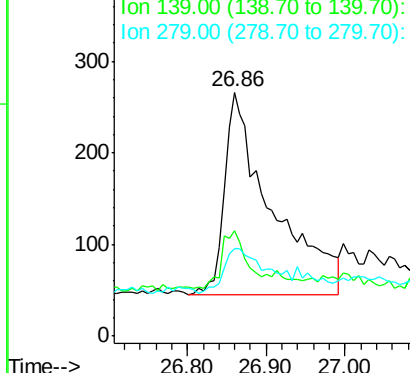
278 100

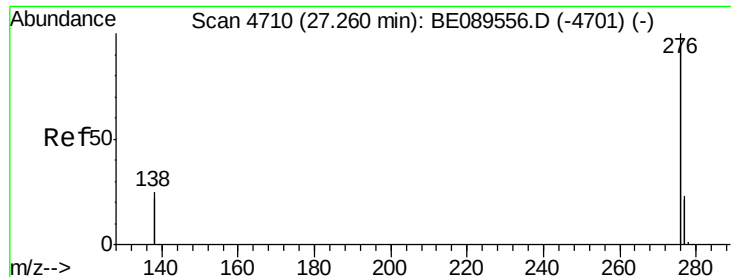
139 43.2 16.1 24.1#

279 36.1 19.6 29.4#



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: 0.04 ng

RT: 27.26 min Scan# 4709

Delta R.T. -0.00 min

Lab File: BE089565.D

Acq: 11 Feb 2015 1:35

Instrument :

BNA_E

ClientSampleId :

MDL-04-W

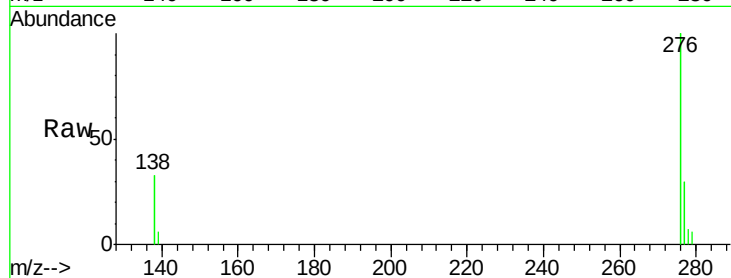
Tgt Ion: 276 Resp: 6365

Ion Ratio Lower Upper

276 100

277 30.2 18.7 28.1#

138 33.5 19.7 29.5#



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

