

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE021015\
 Data File : BE089566.D
 Acq On : 11 Feb 2015 2:14
 Operator : TP/IZ
 Sample : MDL-05-W
 Misc : MDL-WATER-0.1/0.2
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 MDL-05-W

Quant Time: Feb 11 03:05:20 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	9.41	152	50609	5.00	ng	0.00
2) Naphthalene-d8	12.32	136	181693	5.00	ng	0.00
6) Acenaphthene-d10	16.50	164	72208	5.00	ng	0.00
11) Phenanthrene-d10	19.84	188	110788	5.00	ng	0.00
16) Chrysene-d12	23.71	240	142745	5.00	ng	0.00
22) Perylene-d12	25.40	264	162886	5.00	ng	0.00

System Monitoring Compounds						
3) Nitrobenzene-d5	10.68	82	98617	8.47	ng	0.00
7) 2-Fluorobiphenyl	14.95	172	136254	6.96	ng	0.00
18) Terphenyl-d14	22.35	244	136951	7.70	ng	0.00

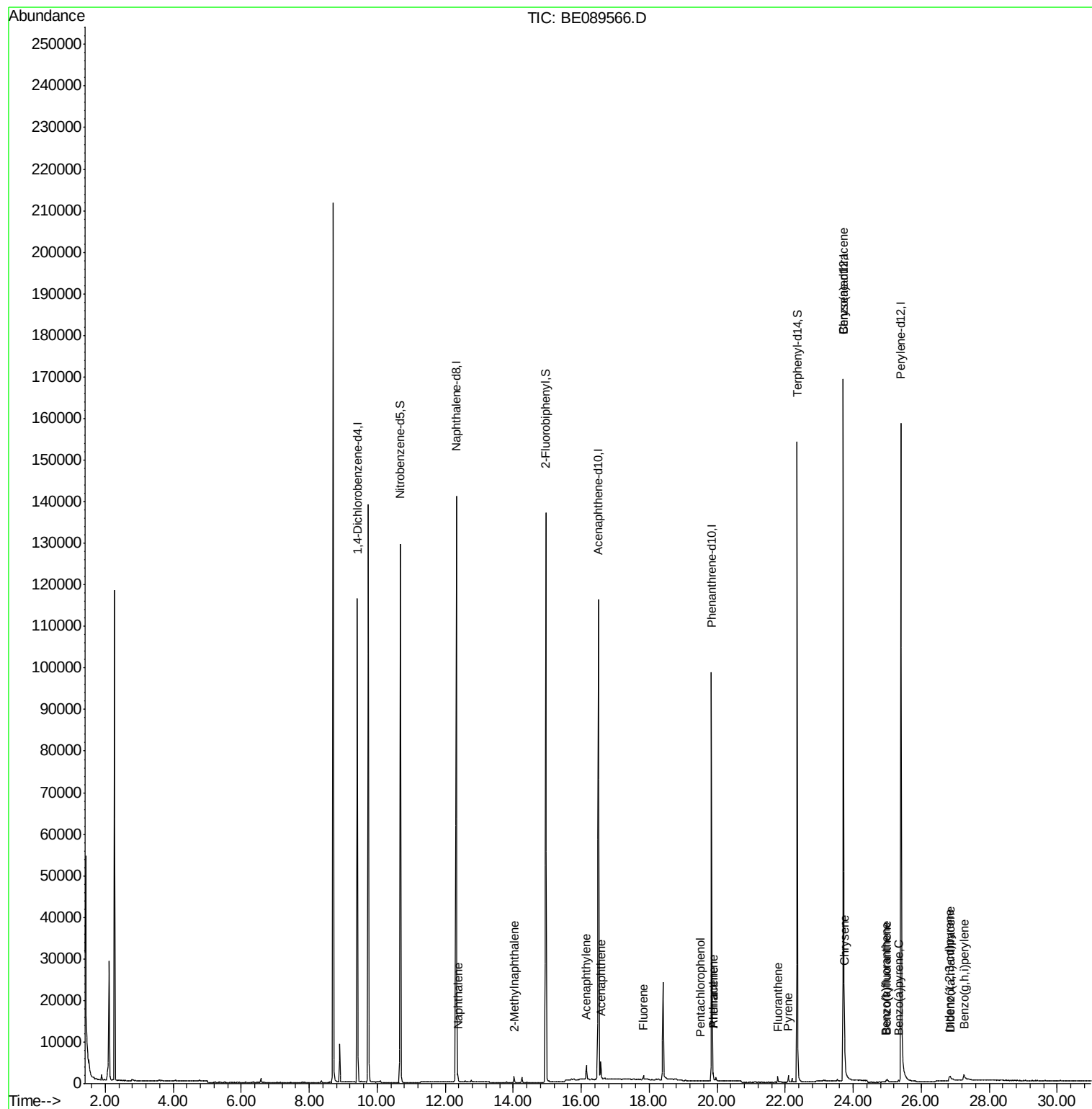
Target Compounds						Qvalue
4) Naphthalene	12.37	128	2221	0.05	ng	# 95
5) 2-Methylnaphthalene	14.02	142	1066	0.05	ng	# 95
8) Acenaphthylene	16.15	152	4848	0.04	ng	# 95
9) Acenaphthene	16.58	154	870	0.05	ng	# 87
10) Fluorene	17.83	166	832	0.04	ng	# 99
12) Pentachlorophenol	19.51	266	22	0.34	ng	# 75
13) Phenanthrene	19.88	178	1464	0.05	ng	# 100
14) Anthracene	19.88	178	1464	0.06	ng	# 98
15) Fluoranthene	21.78	202	1175	0.04	ng	# 98
17) Pyrene	22.09	202	1278	0.04	ng	# 99
19) Benzo(a)anthracene	23.70	228	6564	0.06	ng	# 94
20) Chrysene	23.74	228	7500	0.06	ng	# 94
21) Indeno(1,2,3-cd)pyrene	26.83	276	3083	0.06	ng	# 83
23) Benzo(b)fluoranthene	24.97	252	586	0.25	ng	# 82
24) Benzo(k)fluoranthene	24.99	252	1210	0.03	ng	# 81
25) Benzo(a)pyrene	25.33	252	650	0.21	ng	# 74
26) Dibenzo(a,h)anthracene	26.87	278	418	0.14	ng	# 61
27) Benzo(g,h,i)perylene	27.26	276	3603	0.03	ng	# 73

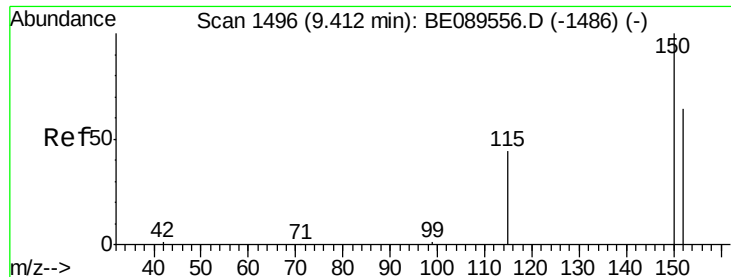
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 9.41 min Scan# 1496

Delta R.T. -0.00 min

Lab File: BE089566.D

Acq: 11 Feb 2015 2:14

Instrument :

BNA_E

ClientSampleId :

MDL-05-W

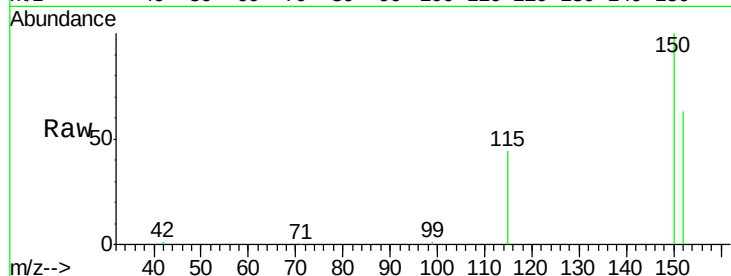
Tgt Ion:152 Resp: 50609

Ion Ratio Lower Upper

152 100

150 158.5 125.6 188.4

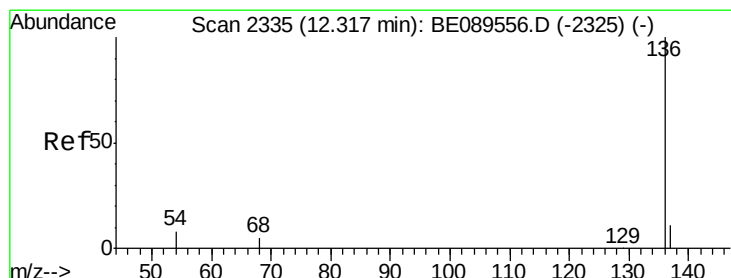
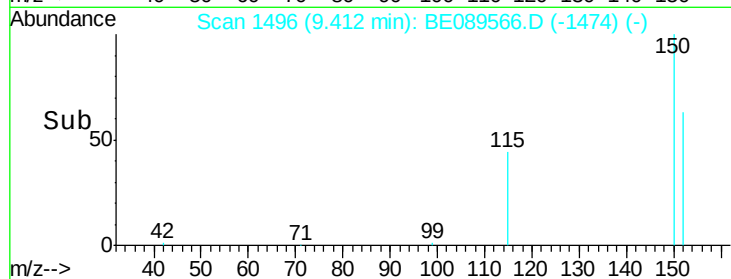
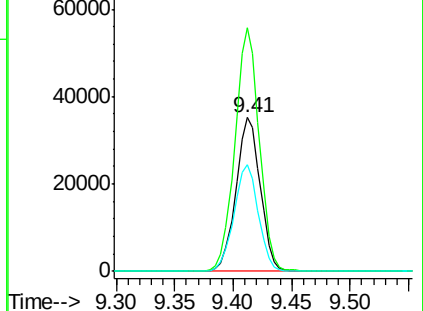
115 69.6 55.8 83.6



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# 2336

Delta R.T. 0.01 min

Lab File: BE089566.D

Acq: 11 Feb 2015 2:14

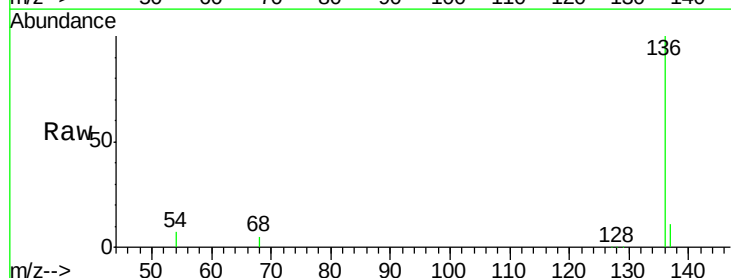
Tgt Ion:136 Resp: 181693

Ion Ratio Lower Upper

136 100

137 10.8 8.6 13.0

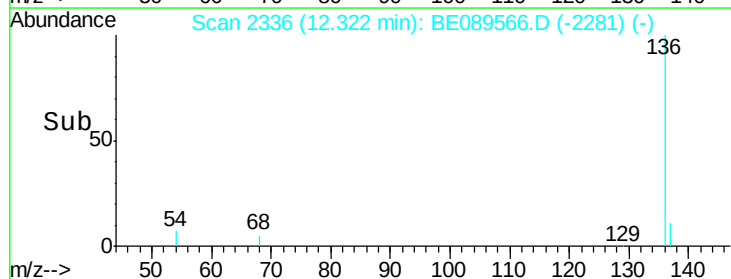
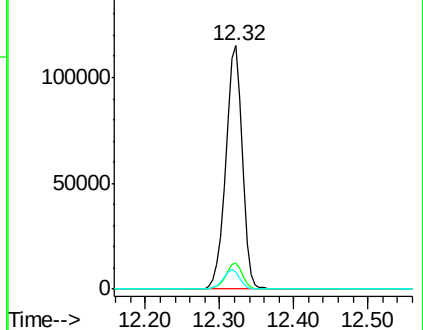
54 7.0 6.6 9.8

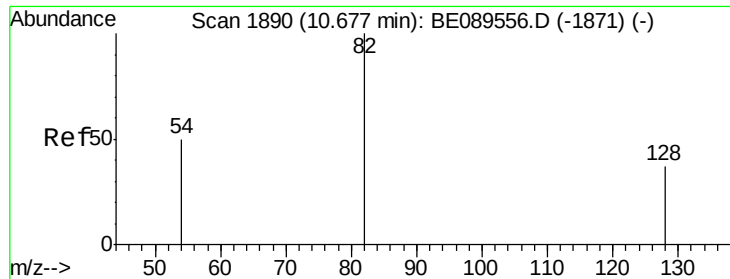


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0





#3

Nitrobenzene-d5

Concen: 8.47 ng

RT: 10.68 min Scan# 1891

Delta R.T. 0.00 min

Lab File: BE089566.D

Acq: 11 Feb 2015 2:14

Instrument :

BNA_E

ClientSampleId :

MDL-05-W

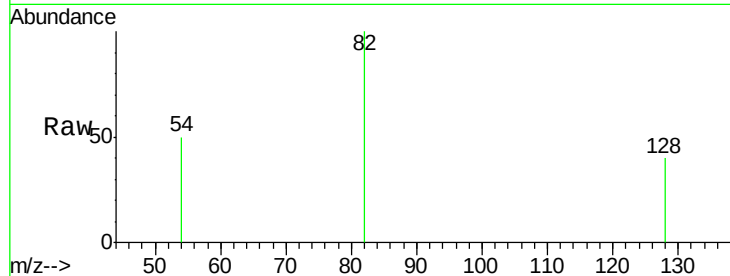
Tgt Ion: 82 Resp: 98617

Ion Ratio Lower Upper

82 100

128 40.3 30.4 45.6

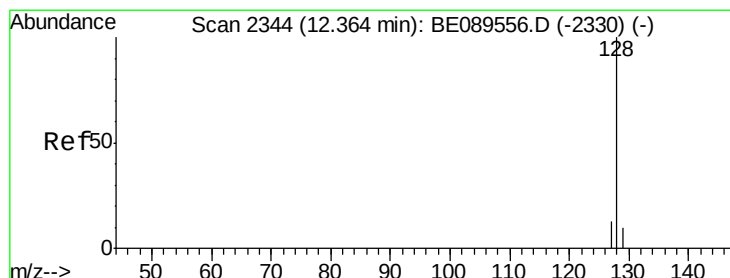
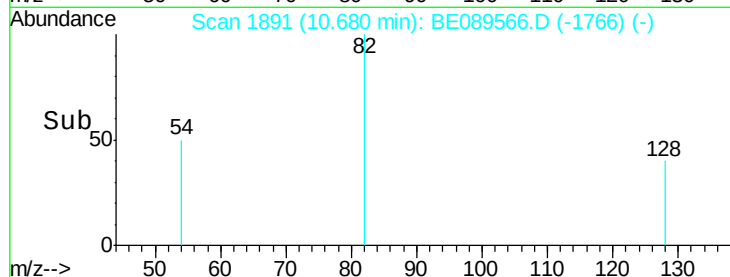
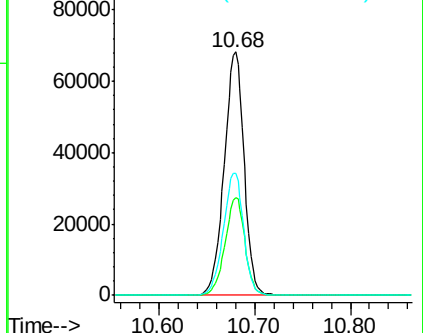
54 50.1 40.7 61.1



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: 0.05 ng

RT: 12.37 min Scan# 2345

Delta R.T. 0.01 min

Lab File: BE089566.D

Acq: 11 Feb 2015 2:14

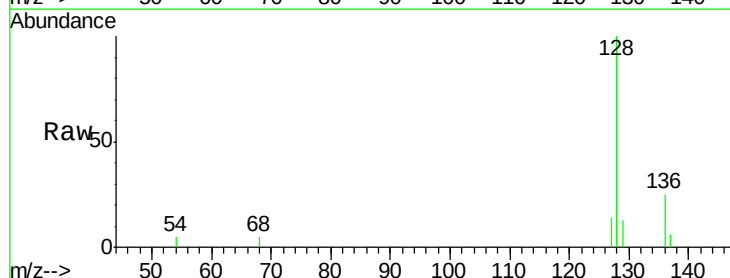
Tgt Ion: 128 Resp: 2221

Ion Ratio Lower Upper

128 100

129 13.3 8.5 12.7#

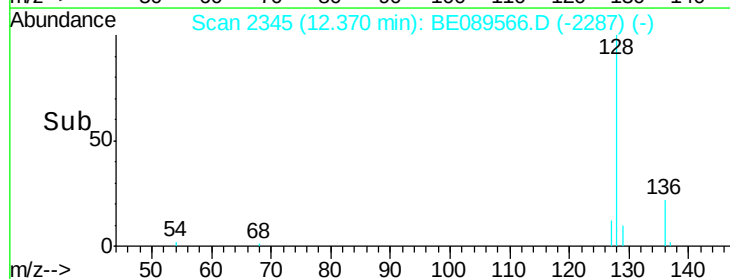
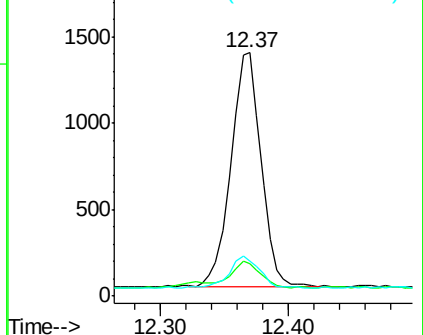
127 14.4 10.6 15.8

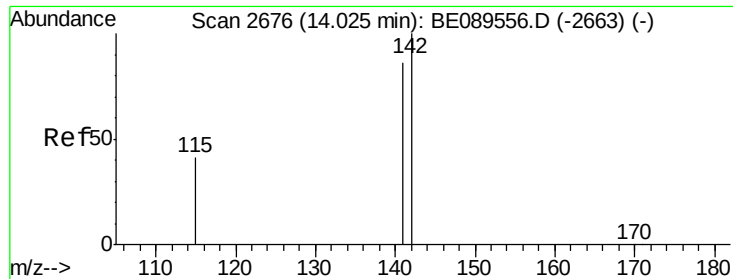


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E





#5

2-Methylnaphthalene

Concen: 0.05 ng

RT: 14.02 min Scan# 2676

Delta R.T. 0.00 min

Lab File: BE089566.D

Acq: 11 Feb 2015 2:14

Instrument :

BNA_E

ClientSampleId :

MDL-05-W

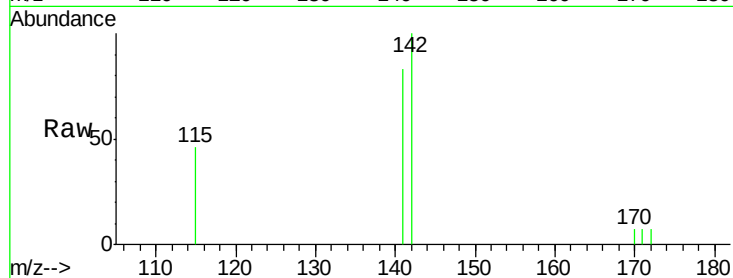
Tgt Ion:142 Resp: 1066

Ion Ratio Lower Upper

142 100

141 82.7 68.6 102.8

115 46.2 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

14.02

600

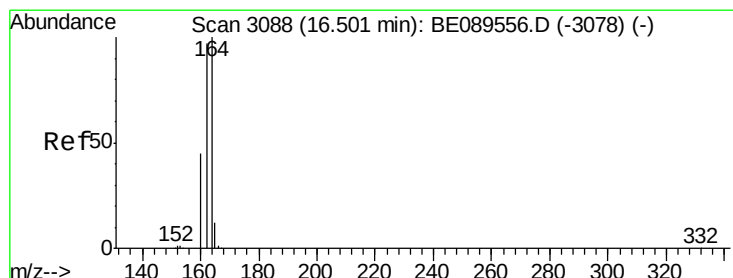
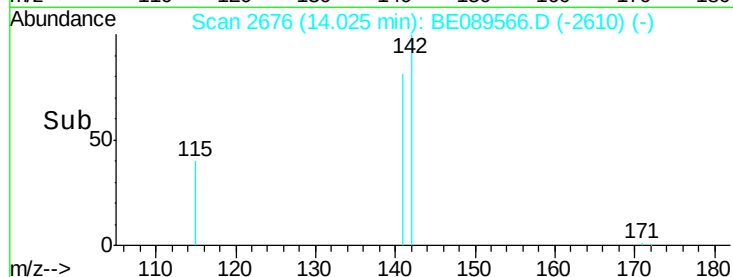
400

200

0

14.00 14.10

Time-->



#6

Acenaphthene-d10

Concen: 5.00 ng

RT: 16.50 min Scan# 3088

Delta R.T. 0.00 min

Lab File: BE089566.D

Acq: 11 Feb 2015 2:14

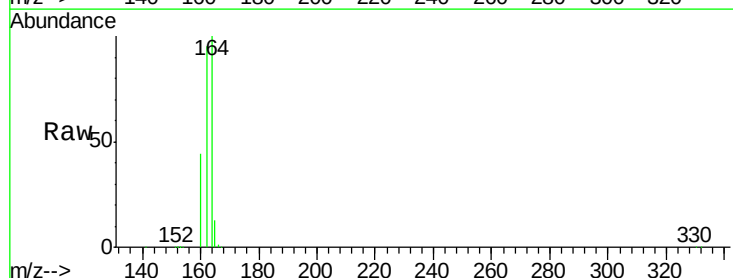
Tgt Ion:164 Resp: 72208

Ion Ratio Lower Upper

164 100

162 95.3 77.8 116.6

160 44.0 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

16.50

60000

50000

40000

30000

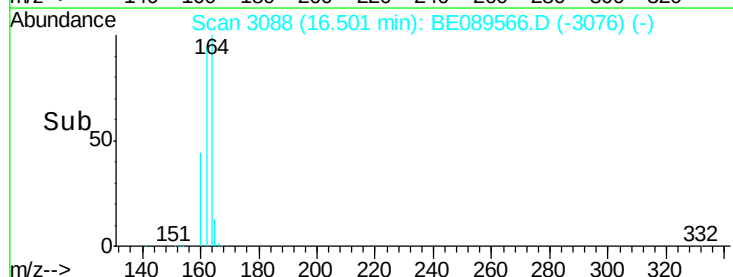
20000

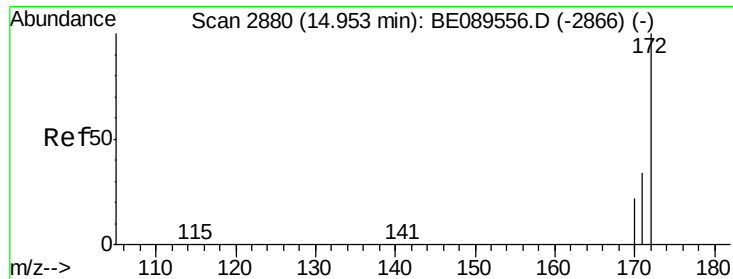
10000

0

16.40 16.60

Time-->





#7

2-Fluorobiphenyl

Concen: 6.96 ng

RT: 14.95 min Scan# 2880

Delta R.T. 0.00 min

Lab File: BE089566.D

Acq: 11 Feb 2015 2:14

Instrument :

BNA_E

ClientSampleId :

MDL-05-W

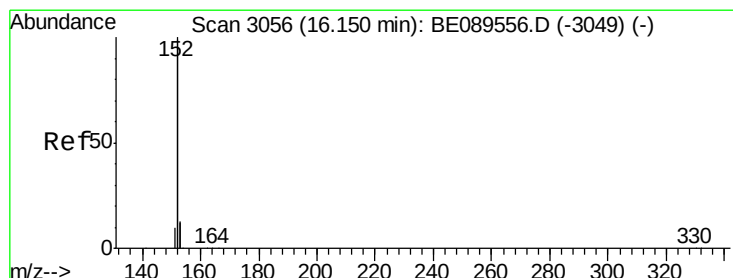
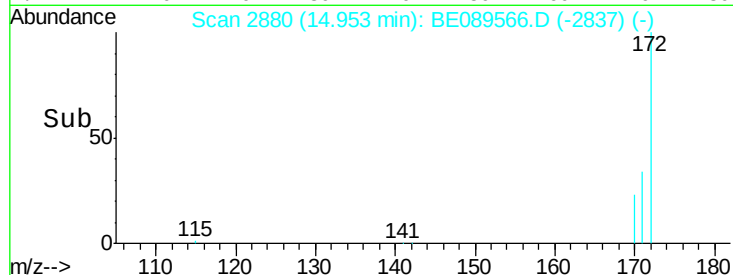
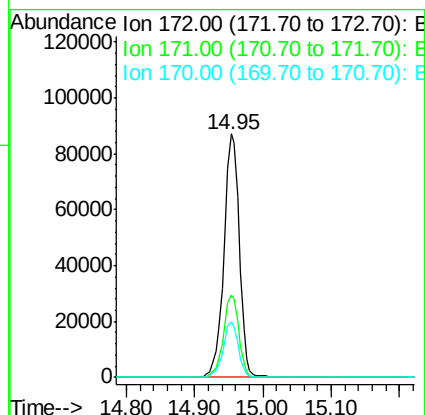
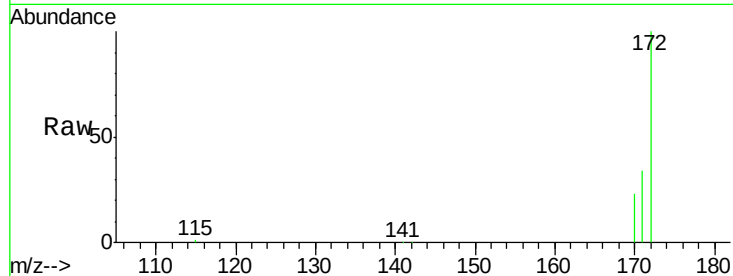
Tgt Ion:172 Resp: 136254

Ion Ratio Lower Upper

172 100

171 33.9 27.4 41.0

170 22.7 18.3 27.5



#8

Acenaphthylene

Concen: 0.04 ng

RT: 16.15 min Scan# 3056

Delta R.T. 0.00 min

Lab File: BE089566.D

Acq: 11 Feb 2015 2:14

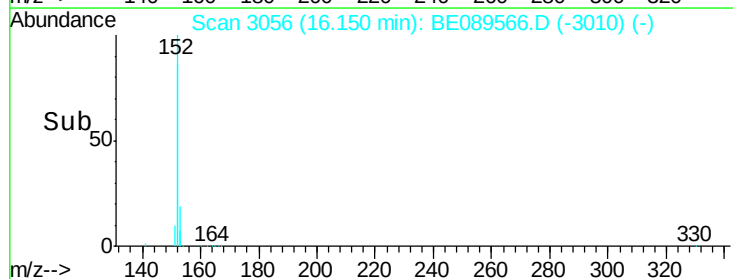
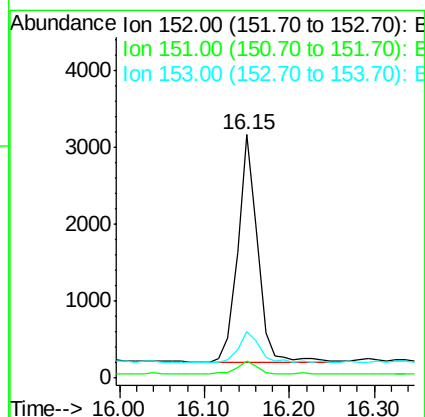
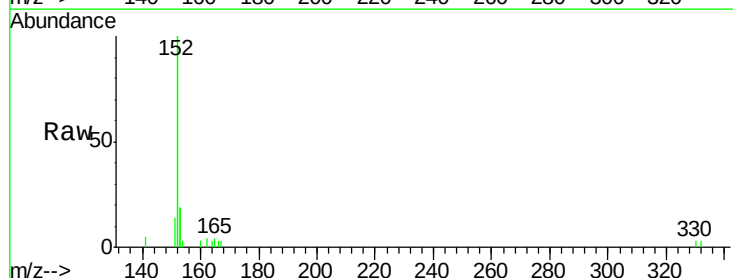
Tgt Ion:152 Resp: 4848

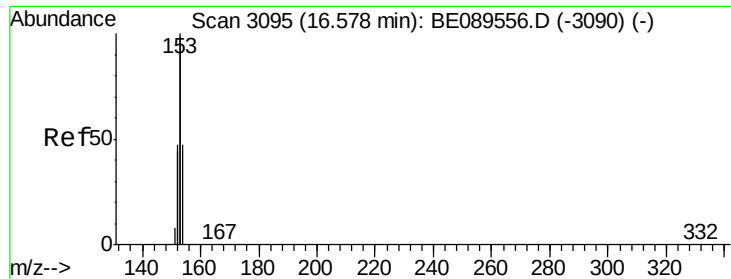
Ion Ratio Lower Upper

152 100

151 5.5 3.9 5.9

153 15.3 10.4 15.6





#9

Acenaphthene

Concen: 0.05 ng

RT: 16.58 min Scan# 3095

Delta R.T. 0.00 min

Lab File: BE089566.D

Acq: 11 Feb 2015 2:14

Instrument :

BNA_E

ClientSampleId :

MDL-05-W

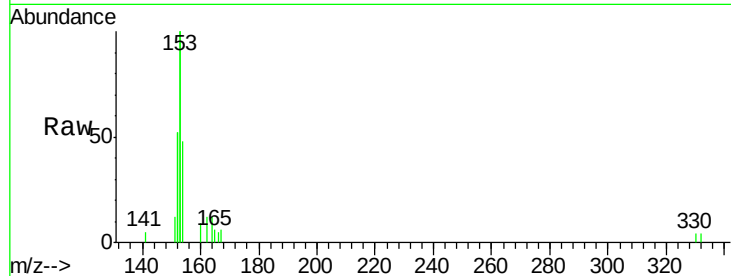
Tgt Ion:154 Resp: 870

Ion Ratio Lower Upper

154 100

153 465.2 349.0 523.4

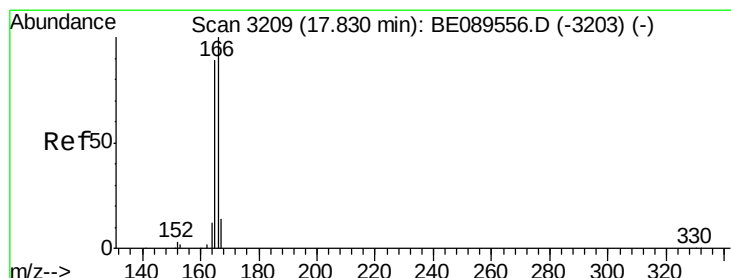
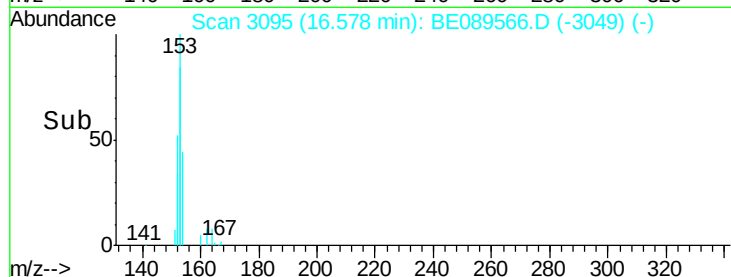
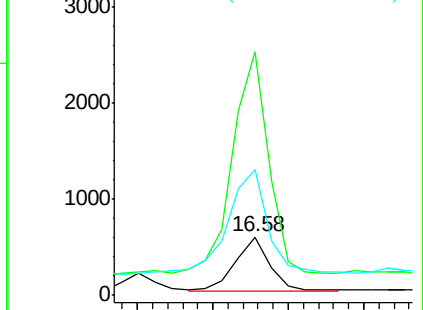
152 240.3 173.0 259.4



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: 0.04 ng

RT: 17.83 min Scan# 3209

Delta R.T. 0.00 min

Lab File: BE089566.D

Acq: 11 Feb 2015 2:14

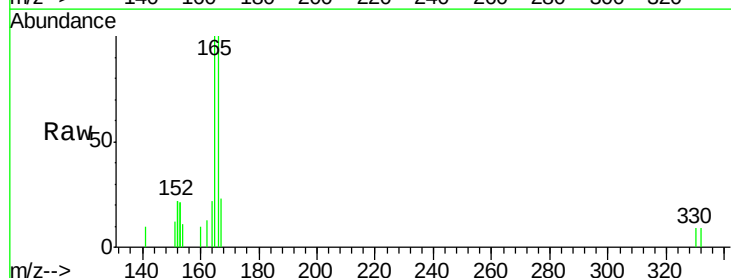
Tgt Ion:166 Resp: 832

Ion Ratio Lower Upper

166 100

165 94.6 75.1 112.7

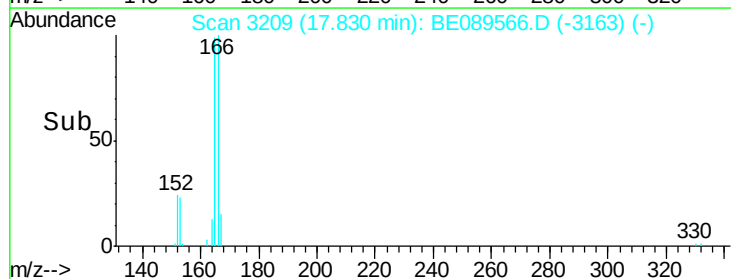
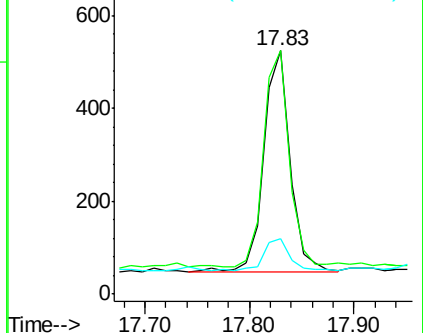
167 14.8 10.6 16.0

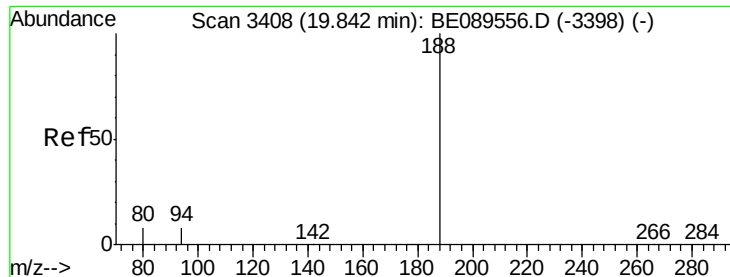


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

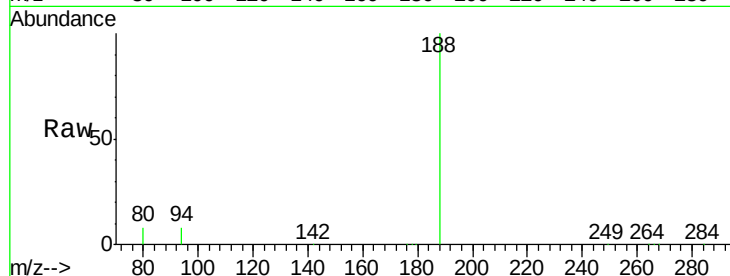




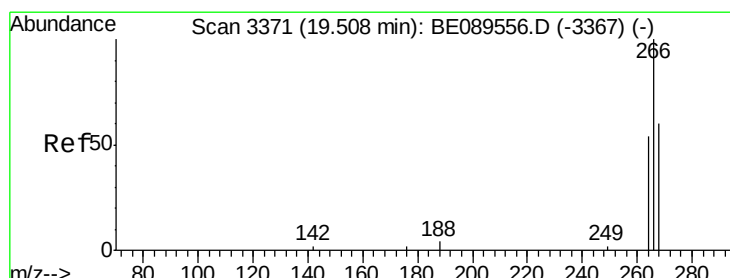
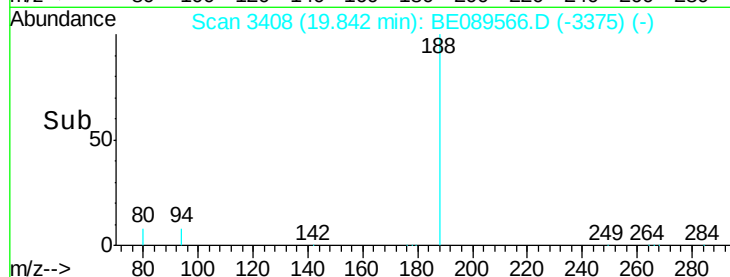
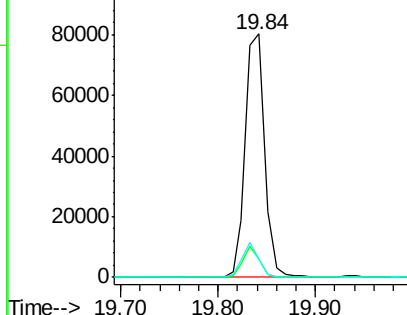
#11
Phenanthrene-d10
Concen: 5.00 ng
RT: 19.84 min Scan# 3408
Delta R.T. 0.00 min
Lab File: BE089566.D
Acq: 11 Feb 2015 2:14

Instrument :
BNA_E
ClientSampleId :
MDL-05-W

Tgt Ion:188 Resp: 110788
Ion Ratio Lower Upper
188 100
94 7.7 6.2 9.2
80 7.7 6.4 9.6

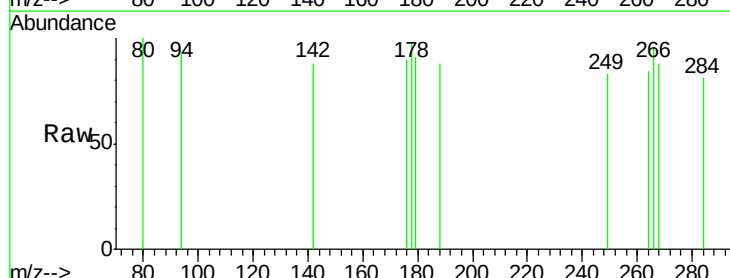


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BE0
Ion 80.00 (79.70 to 80.70): BE0

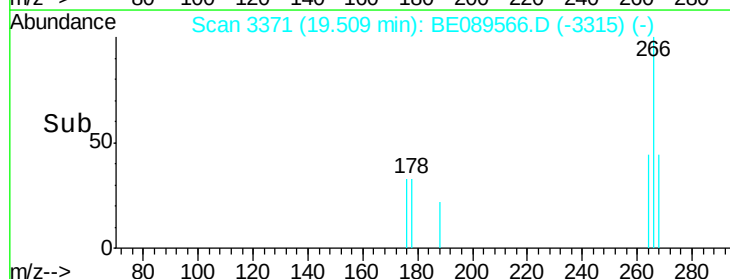
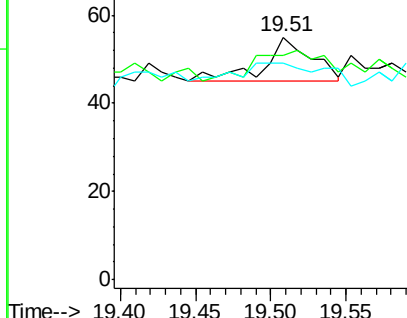


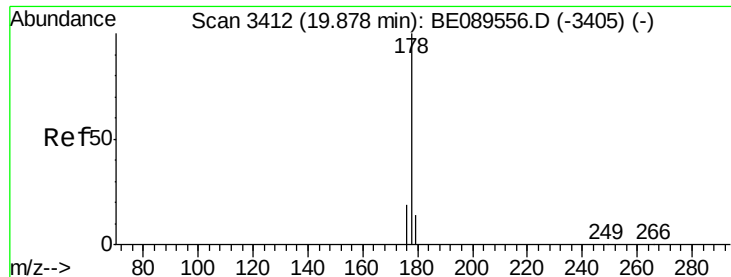
#12
Pentachlorophenol
Concen: 0.34 ng
RT: 19.51 min Scan# 3371
Delta R.T. 0.00 min
Lab File: BE089566.D
Acq: 11 Feb 2015 2:14

Tgt Ion:266 Resp: 22
Ion Ratio Lower Upper
266 100
268 92.7 57.9 86.9#
264 89.1 54.6 81.8#



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: 0.05 ng

RT: 19.88 min Scan# 3412

Delta R.T. 0.00 min

Lab File: BE089566.D

Acq: 11 Feb 2015 2:14

Instrument :

BNA_E

ClientSampleId :

MDL-05-W

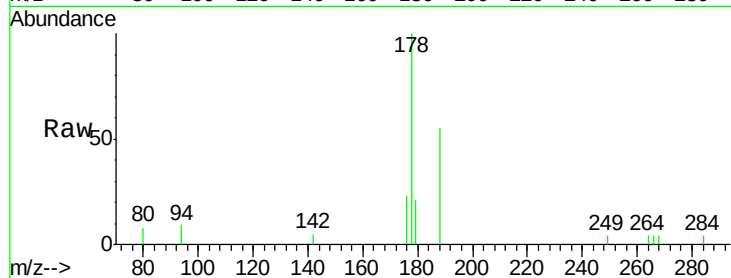
Tgt Ion:178 Resp: 1464

Ion Ratio Lower Upper

178 100

176 19.1 15.1 22.7

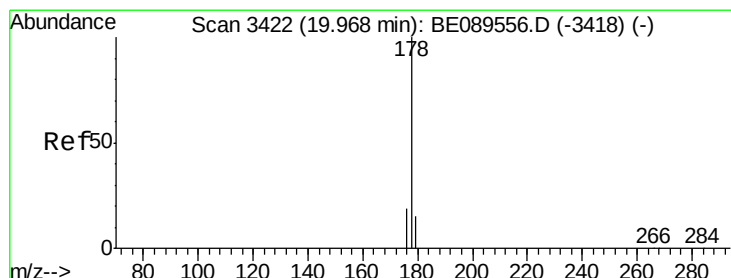
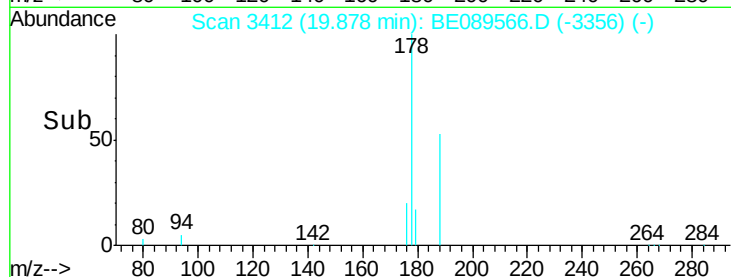
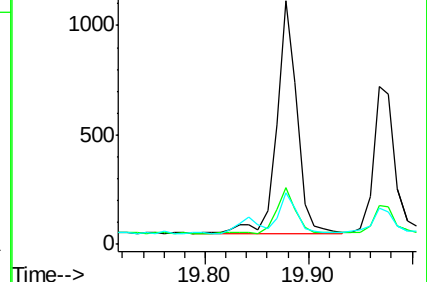
179 15.0 12.1 18.1



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: 19.88 min Scan# 3412

Delta R.T. -0.09 min

Lab File: BE089566.D

Acq: 11 Feb 2015 2:14

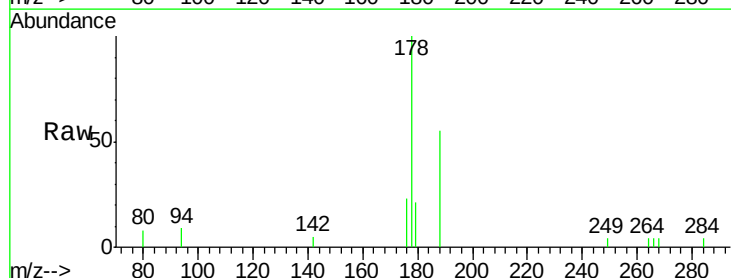
Tgt Ion:178 Resp: 1464

Ion Ratio Lower Upper

178 100

176 19.1 14.6 21.8

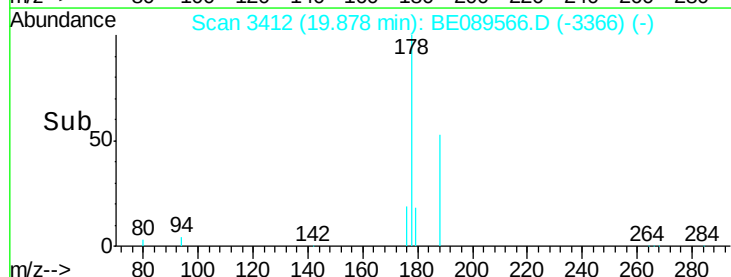
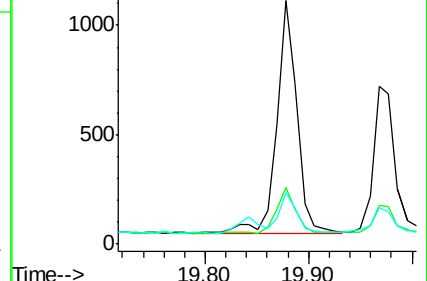
179 15.0 12.7 19.1

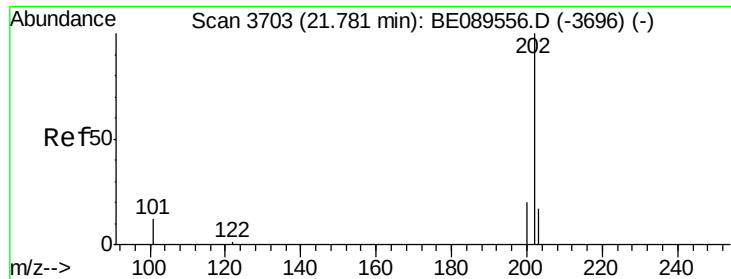


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

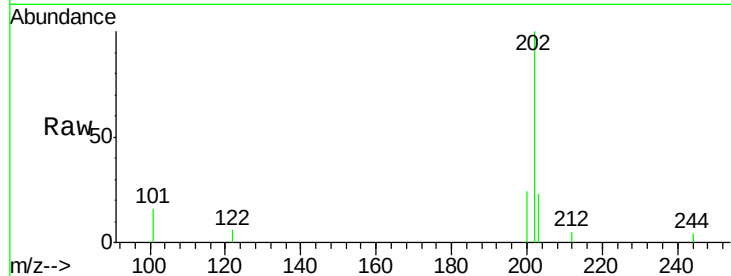




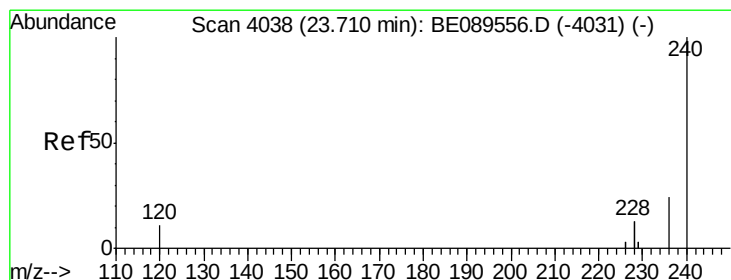
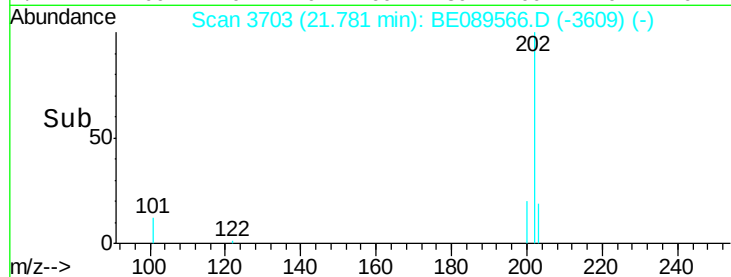
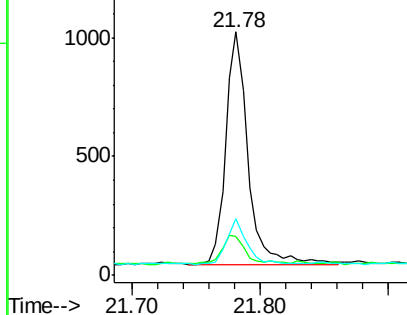
#15
 Fluoranthene
 Concen: 0.04 ng
 RT: 21.78 min Scan# 3703
 Delta R.T. -0.00 min
 Lab File: BE089566.D
 Acq: 11 Feb 2015 2:14

Instrument :
 BNA_E
 ClientSampleId :
 MDL-05-W

Tgt Ion: 202 Resp: 1175
 Ion Ratio Lower Upper
 202 100
 101 11.9 10.4 15.6
 203 17.4 13.6 20.4

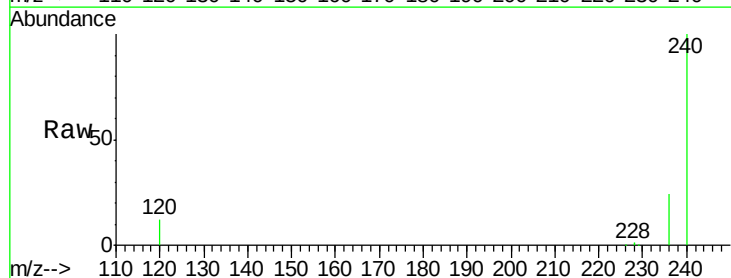


Abundance Ion 202.00 (201.70 to 202.70): E
 Ion 101.00 (100.70 to 101.70): E
 Ion 203.00 (202.70 to 203.70): E

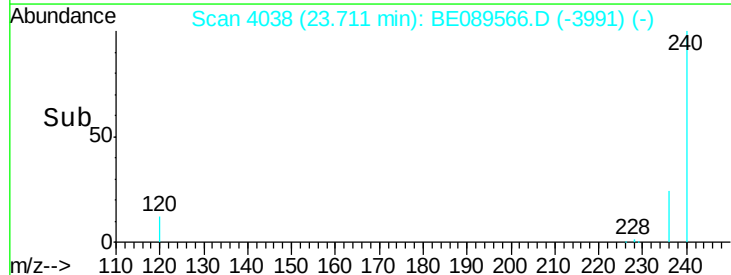
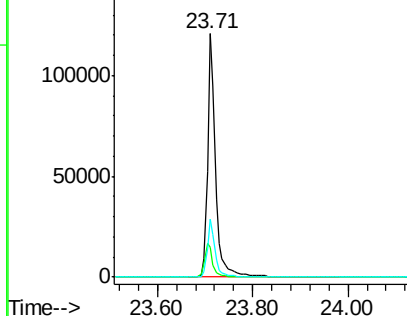


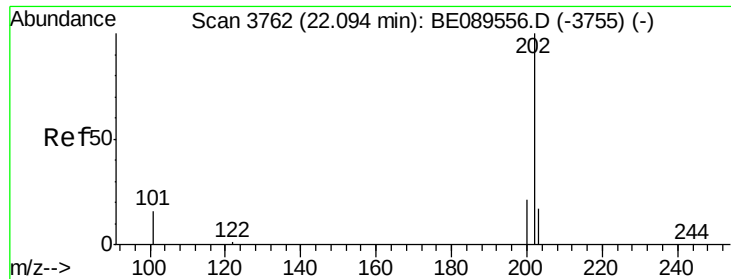
#16
 Chrysene-d12
 Concen: 5.00 ng
 RT: 23.71 min Scan# 4038
 Delta R.T. 0.00 min
 Lab File: BE089566.D
 Acq: 11 Feb 2015 2:14

Tgt Ion: 240 Resp: 142745
 Ion Ratio Lower Upper
 240 100
 120 12.1 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

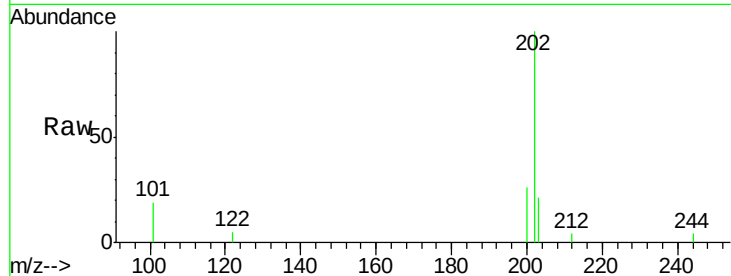




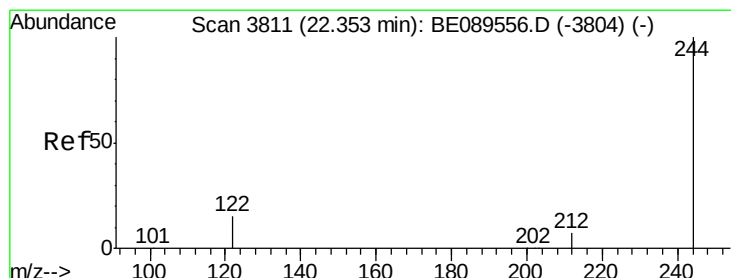
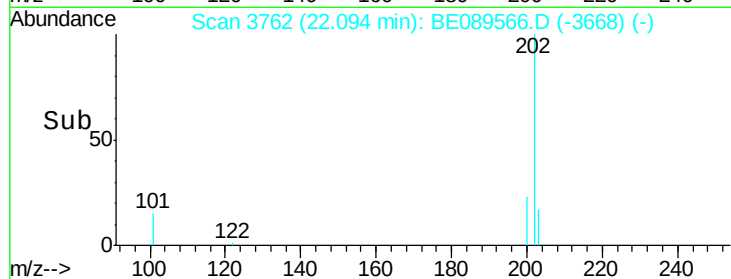
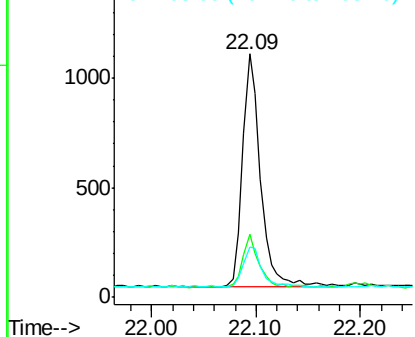
#17
 Pyrene
 Concen: 0.04 ng
 RT: 22.09 min Scan# 3762
 Delta R.T. -0.00 min
 Lab File: BE089566.D
 Acq: 11 Feb 2015 2:14

Instrument :
 BNA_E
 ClientSampleId :
 MDL-05-W

Tgt Ion: 202 Resp: 1278
 Ion Ratio Lower Upper
 202 100
 200 20.8 16.6 24.8
 203 18.5 14.2 21.2

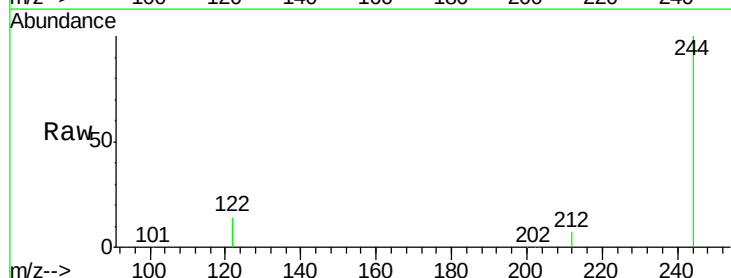


Abundance Ion 202.00 (201.70 to 202.70): E
 Ion 200.00 (199.70 to 200.70): E
 Ion 203.00 (202.70 to 203.70): E

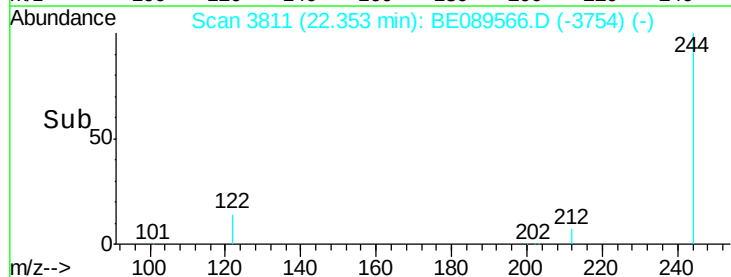
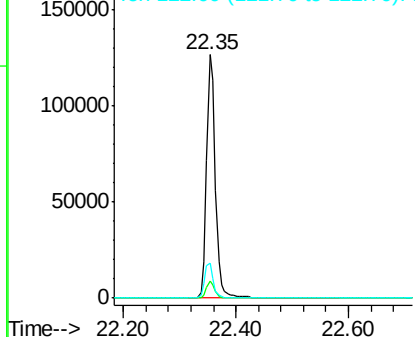


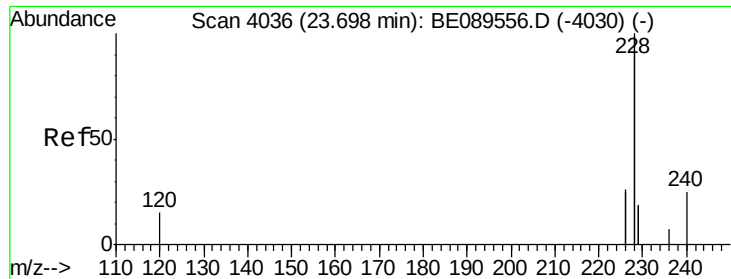
#18
 Terphenyl-d14
 Concen: 7.70 ng
 RT: 22.35 min Scan# 3811
 Delta R.T. -0.00 min
 Lab File: BE089566.D
 Acq: 11 Feb 2015 2:14

Tgt Ion: 244 Resp: 136951
 Ion Ratio Lower Upper
 244 100
 212 7.0 5.9 8.9
 122 14.2 12.2 18.2



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: 23.70 min Scan# 4037

Delta R.T. 0.01 min

Lab File: BE089566.D

Acq: 11 Feb 2015 2:14

Instrument :

BNA_E

ClientSampleId :

MDL-05-W

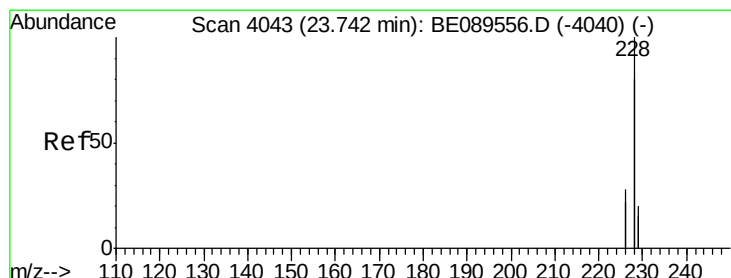
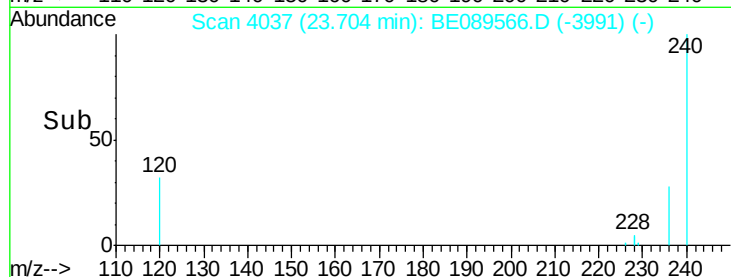
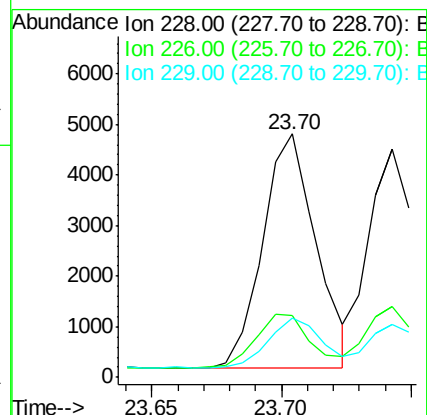
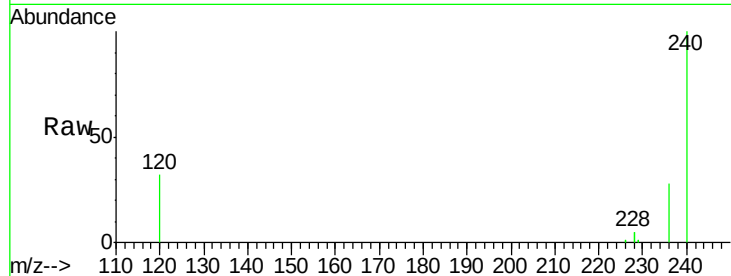
Tgt Ion:228 Resp: 6564

Ion Ratio Lower Upper

228 100

226 25.2 21.0 31.4

229 24.4 15.2 22.8#



#20

Chrysene

Concen: 0.06 ng

RT: 23.74 min Scan# 4043

Delta R.T. 0.00 min

Lab File: BE089566.D

Acq: 11 Feb 2015 2:14

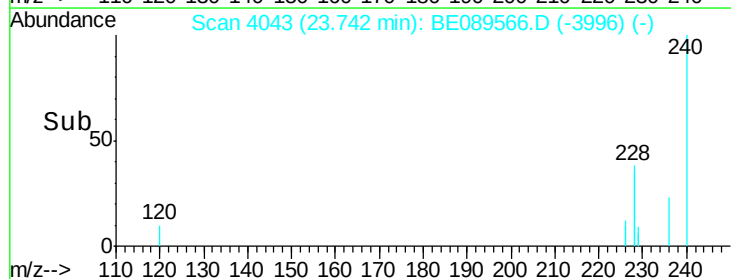
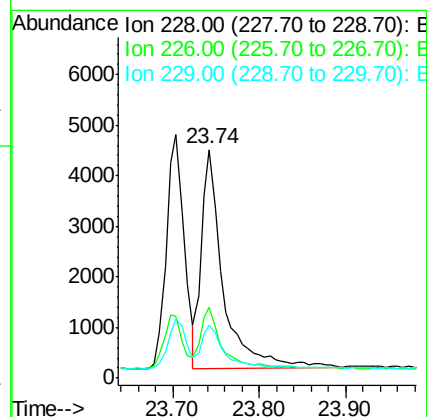
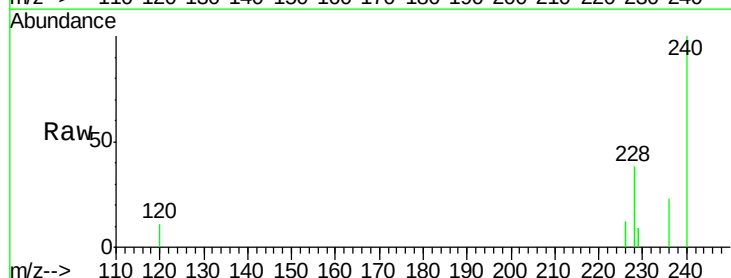
Tgt Ion:228 Resp: 7500

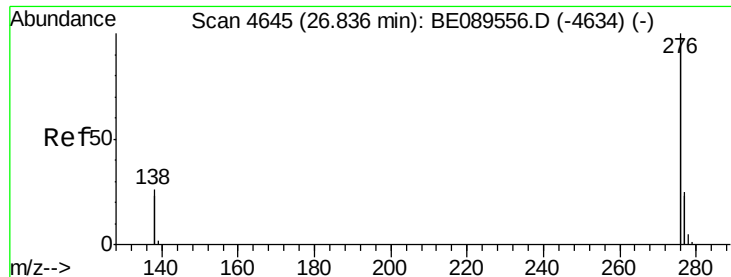
Ion Ratio Lower Upper

228 100

226 31.0 22.6 34.0

229 23.1 15.6 23.4





#21

Indeno(1,2,3-cd)pyrene

Concen: 0.06 ng

RT: 26.83 min Scan# 4644

Delta R.T. -0.01 min

Lab File: BE089566.D

Acq: 11 Feb 2015 2:14

Instrument :

BNA_E

ClientSampleId :

MDL-05-W

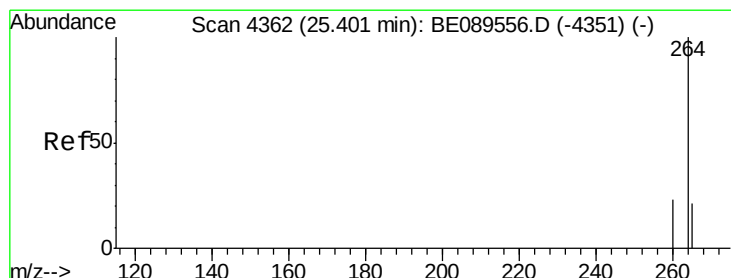
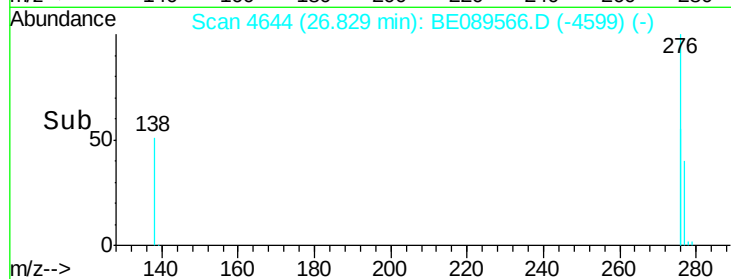
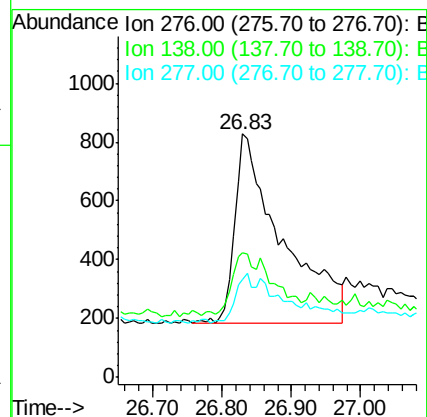
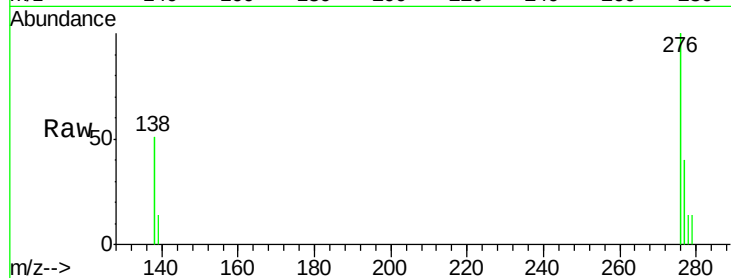
Tgt Ion:276 Resp: 3083

Ion Ratio Lower Upper

276 100

138 27.9 20.2 30.4

277 10.4 19.6 29.4#



#22

Perylene-d12

Concen: 5.00 ng

RT: 25.40 min Scan# 4362

Delta R.T. -0.00 min

Lab File: BE089566.D

Acq: 11 Feb 2015 2:14

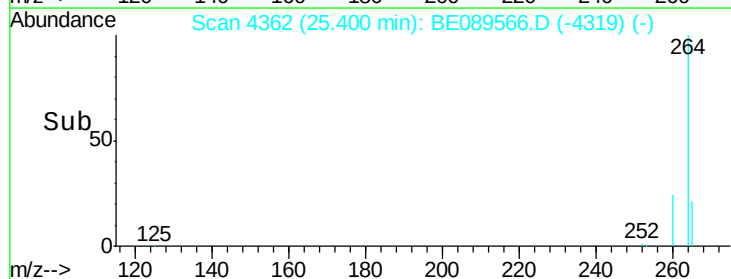
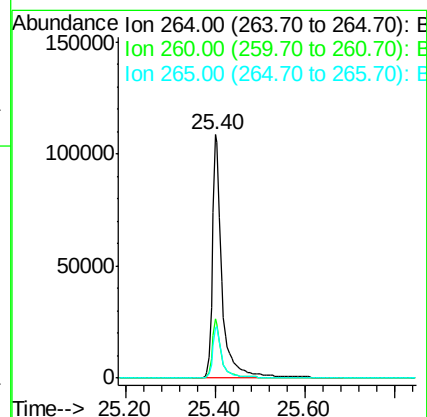
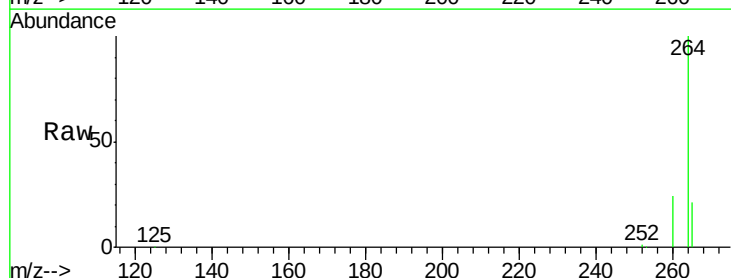
Tgt Ion:264 Resp: 162886

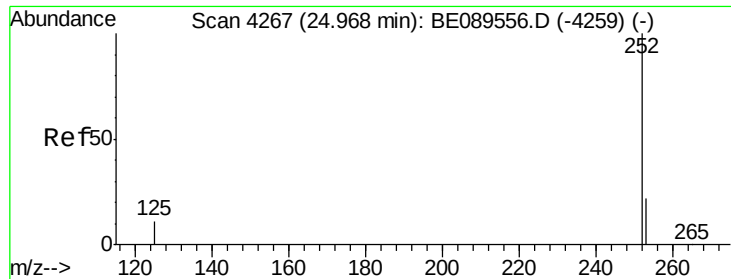
Ion Ratio Lower Upper

264 100

260 24.3 18.7 28.1

265 20.6 16.8 25.2





#23

Benzo(b)fluoranthene

Concen: 0.25 ng

RT: 24.97 min Scan# 4267

Delta R.T. -0.00 min

Lab File: BE089566.D

Acq: 11 Feb 2015 2:14

Instrument :

BNA_E

ClientSampleId :

MDL-05-W

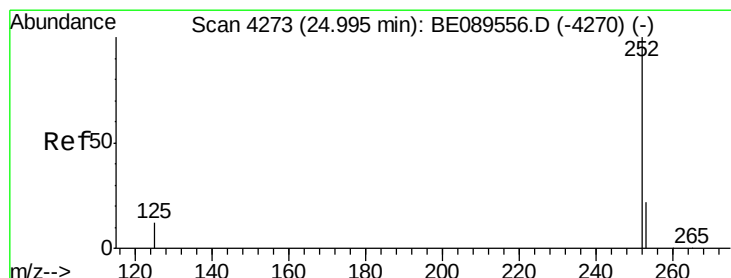
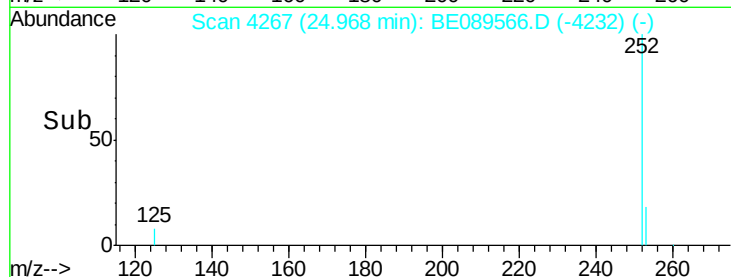
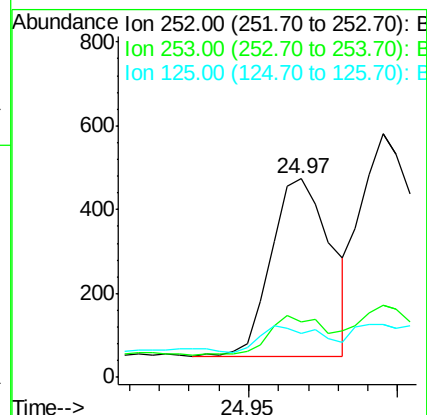
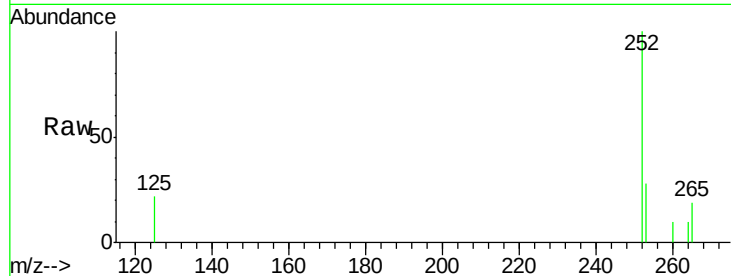
Tgt Ion: 252 Resp: 586

Ion Ratio Lower Upper

252 100

253 28.1 17.8 26.8#

125 22.4 9.3 13.9#



#24

Benzo(k)fluoranthene

Concen: 0.03 ng

RT: 24.99 min Scan# 4273

Delta R.T. -0.00 min

Lab File: BE089566.D

Acq: 11 Feb 2015 2:14

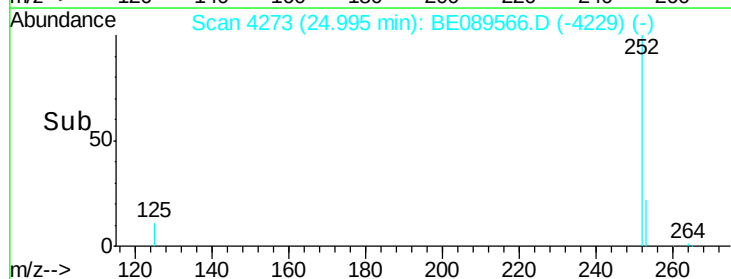
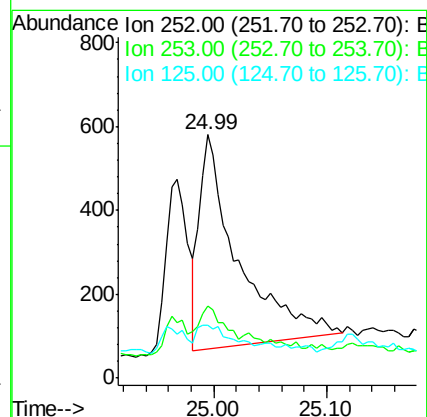
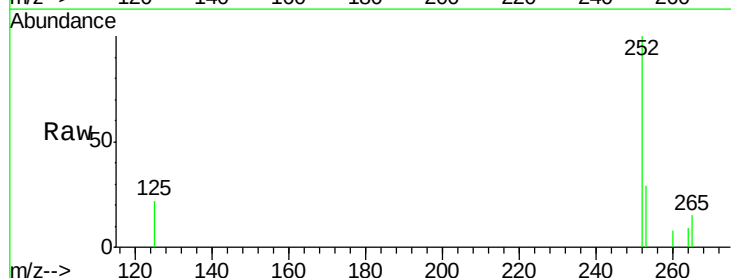
Tgt Ion: 252 Resp: 1210

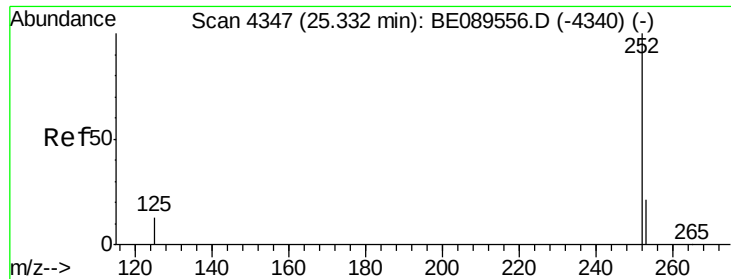
Ion Ratio Lower Upper

252 100

253 29.4 17.5 26.3#

125 22.0 9.6 14.4#





#25

Benzo(a)pyrene

Concen: 0.21 ng

RT: 25.33 min Scan# 4347

Delta R.T. -0.00 min

Lab File: BE089566.D

Acq: 11 Feb 2015 2:14

Instrument :

BNA_E

ClientSampleId :

MDL-05-W

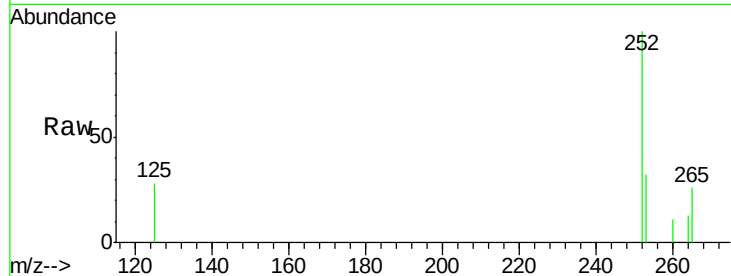
Tgt Ion: 252 Resp: 650

Ion Ratio Lower Upper

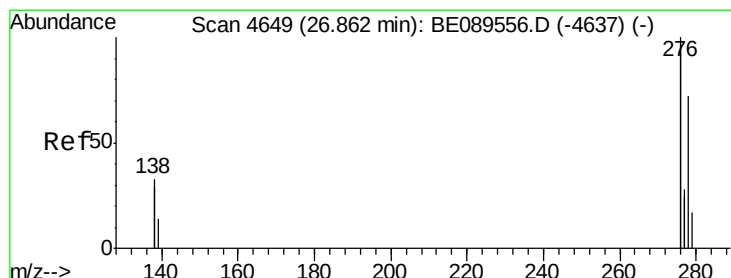
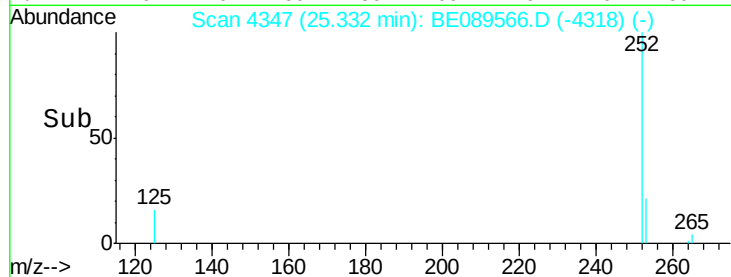
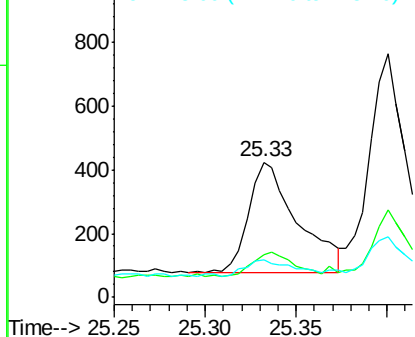
252 100

253 31.6 17.4 26.0#

125 27.8 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: 0.14 ng

RT: 26.87 min Scan# 4650

Delta R.T. 0.01 min

Lab File: BE089566.D

Acq: 11 Feb 2015 2:14

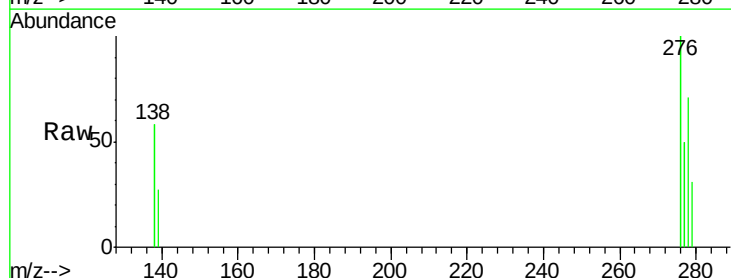
Tgt Ion: 278 Resp: 418

Ion Ratio Lower Upper

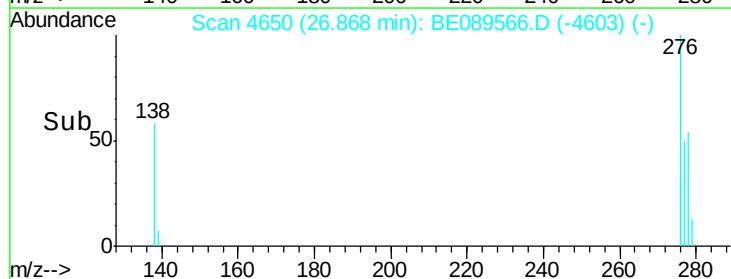
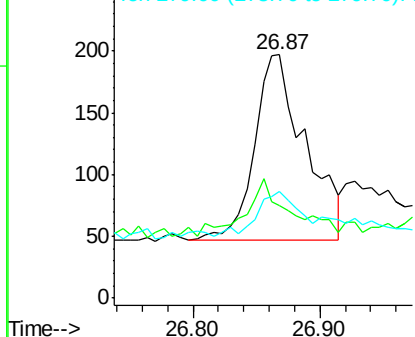
278 100

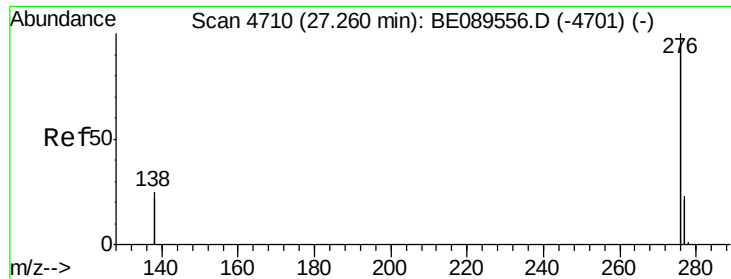
139 38.1 16.1 24.1#

279 43.7 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: 0.03 ng
 RT: 27.26 min Scan# 4710
 Delta R.T. 0.00 min
 Lab File: BE089566.D
 Acq: 11 Feb 2015 2:14

Instrument :
 BNA_E
 ClientSampleId :
 MDL-05-W

Tgt Ion: 276 Resp: 3603
 Ion Ratio Lower Upper
 276 100
 277 32.7 18.7 28.1#
 138 41.8 19.7 29.5#

