

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE020615\
 Data File : BE089565.D
 Acq On : 7 Feb 2015 19:10
 Operator : TP/IZ
 Sample : MDL-03-W
 Misc : MDL-SOIL-0.1/0.2
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 MDL-04-W

Quant Time: Feb 09 00:20:24 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	47113	5.00	ng	0.00
2) Naphthalene-d8	12.32	136	172027	5.00	ng	0.00
6) Acenaphthene-d10	16.51	164	68248	5.00	ng	0.00
11) Phenanthrene-d10	19.84	188	94560	5.00	ng	0.00
16) Chrysene-d12	23.72	240	107600	5.00	ng	0.00
22) Perylene-d12	25.41	264	131069	5.00	ng	0.00

System Monitoring Compounds						
3) Nitrobenzene-d5	10.68	82	98682	8.64	ng	0.00
7) 2-Fluorobiphenyl	14.96	172	140103	7.70	ng	0.00
18) Terphenyl-d14	22.36	244	113473	7.99	ng	0.00

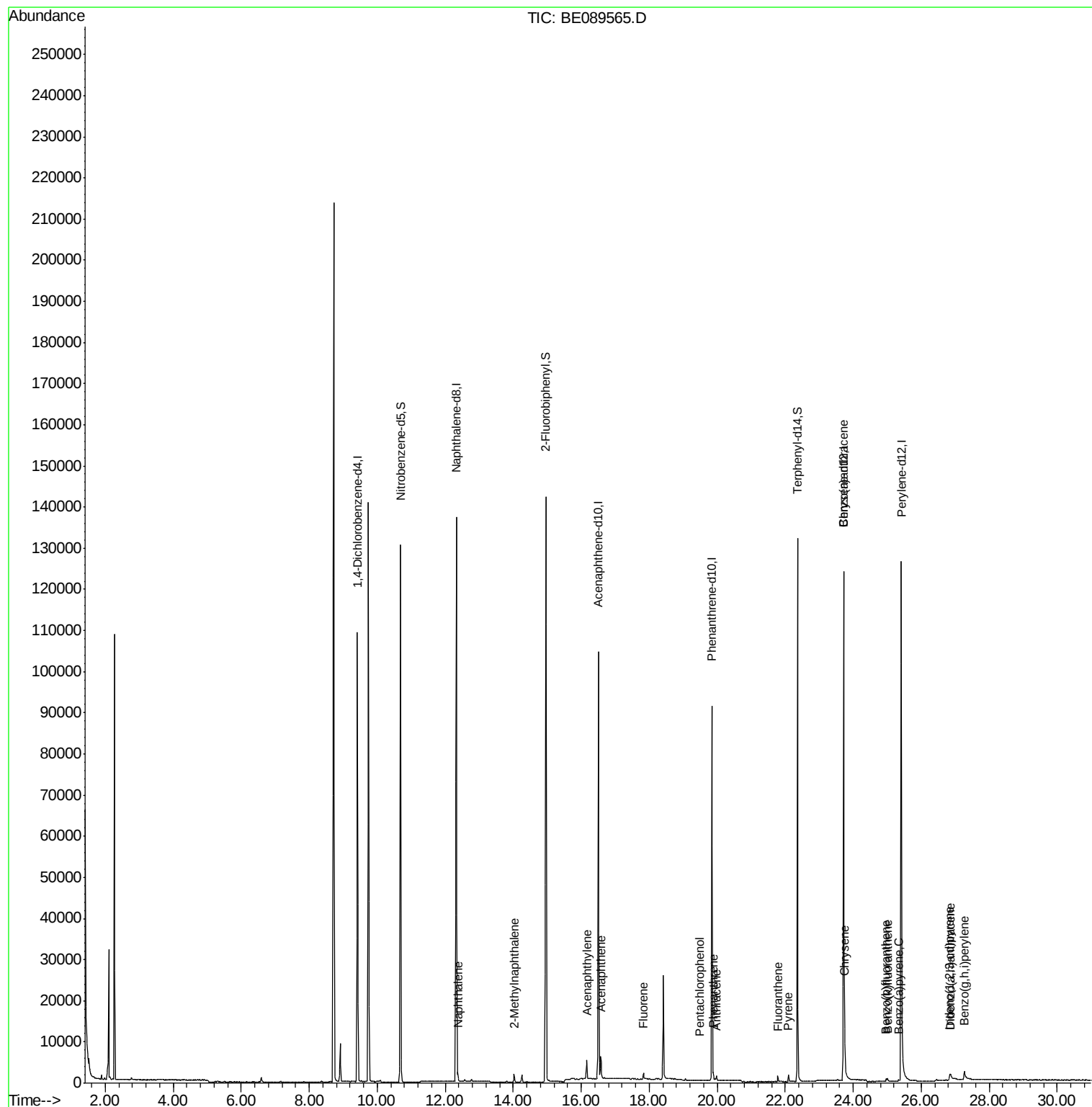
Target Compounds						Qvalue
4) Naphthalene	12.37	128	2829	0.07	ng	# 94
5) 2-Methylnaphthalene	14.03	142	1421	0.06	ng	97
8) Acenaphthylene	16.16	152	6394	0.06	ng	99
9) Acenaphthene	16.58	154	1123	0.06	ng	85
10) Fluorene	17.83	166	1097	0.06	ng	96
12) Pentachlorophenol	19.48	266	6	0.54	ng	# 69
13) Phenanthrene	19.89	178	1625	0.07	ng	97
14) Anthracene	19.98	178	1137	0.06	ng	96
15) Fluoranthene	21.79	202	1170	0.05	ng	97
17) Pyrene	22.10	202	1285	0.06	ng	97
19) Benzo(a)anthracene	23.71	228	5663	0.06	ng	# 93
20) Chrysene	23.75	228	7434	0.08	ng	93
21) Indeno(1,2,3-cd)pyrene	26.84	276	4236	0.03	ng	# 81
23) Benzo(b)fluoranthene	24.97	252	656	0.03	ng	# 80
24) Benzo(k)fluoranthene	25.00	252	1161	0.04	ng	# 84
25) Benzo(a)pyrene	25.34	252	737	0.03	ng	# 71
26) Dibenzo(a,h)anthracene	26.87	278	586	0.02	ng	# 59
27) Benzo(g,h,i)perylene	27.27	276	5400	0.04	ng	# 84

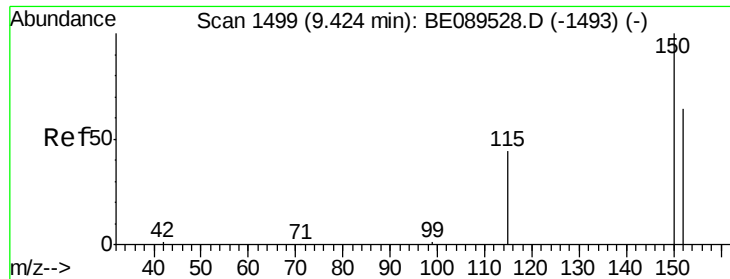
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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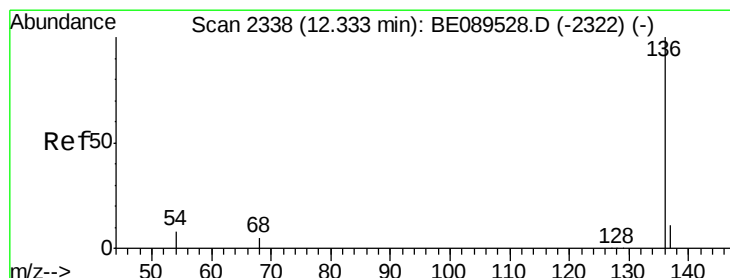
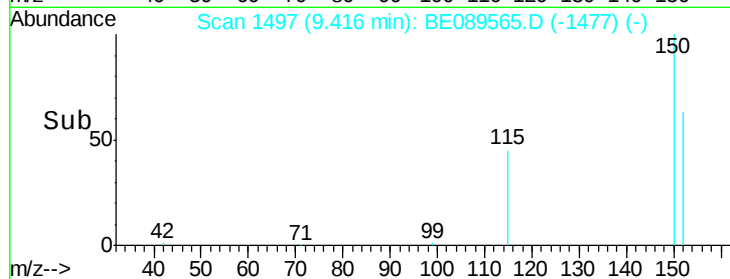
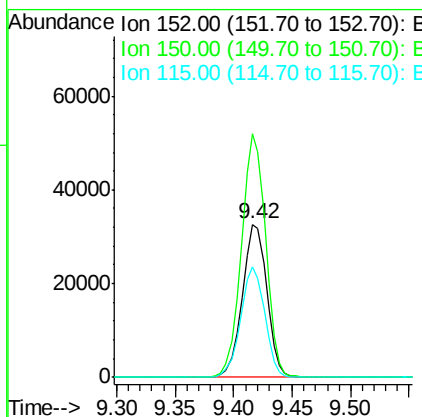
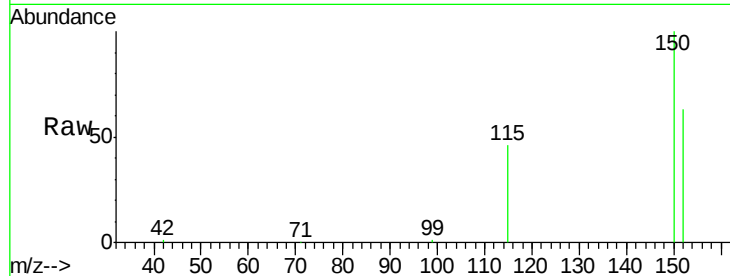




#1
 1,4-Dichlorobenzene-d4
 Concen: 5.00 ng
 RT: 9.42 min Scan# 1497
 Delta R.T. -0.01 min
 Lab File: BE089565.D
 Acq: 7 Feb 2015 19:10

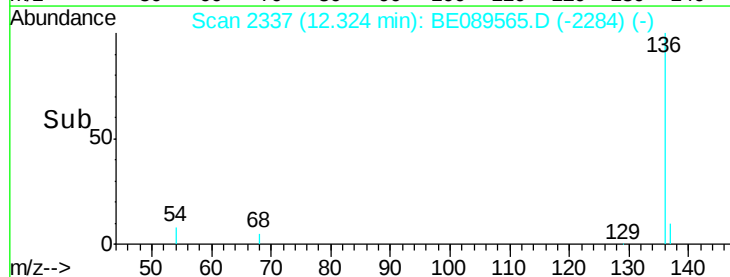
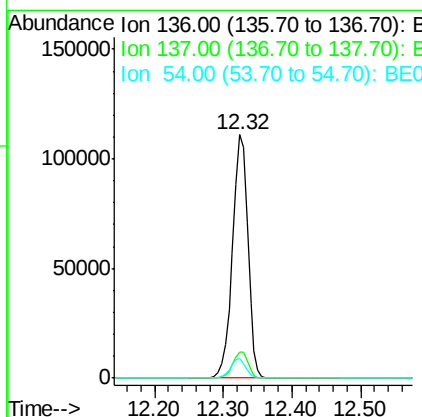
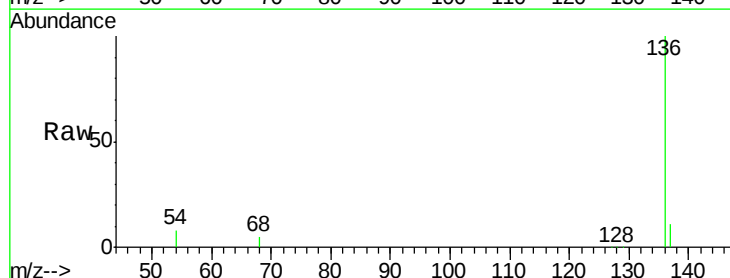
Instrument :
 BNA_E
 ClientSampleId :
 MDL-04-W

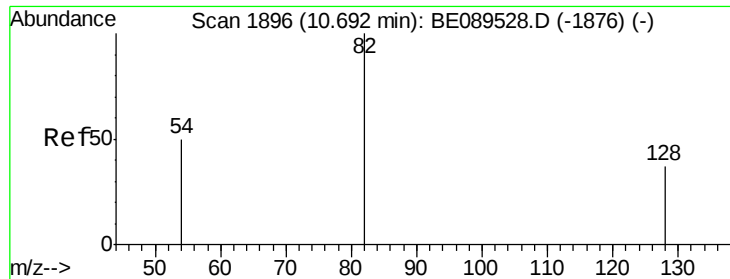
Tgt Ion:152 Resp: 47113
 Ion Ratio Lower Upper
 152 100
 150 159.2 125.7 188.5
 115 72.5 55.6 83.4



#2
 Naphthalene-d8
 Concen: 5.00 ng
 RT: 12.32 min Scan# 2337
 Delta R.T. -0.01 min
 Lab File: BE089565.D
 Acq: 7 Feb 2015 19:10

Tgt Ion:136 Resp: 172027
 Ion Ratio Lower Upper
 136 100
 137 10.5 8.7 13.1
 54 8.0 6.1 9.1





#3

Nitrobenzene-d5

Concen: 8.64 ng

RT: 10.68 min Scan# 1893

Delta R.T. -0.01 min

Lab File: BE089565.D

Acq: 7 Feb 2015 19:10

Instrument :

BNA_E

ClientSampleId :

MDL-04-W

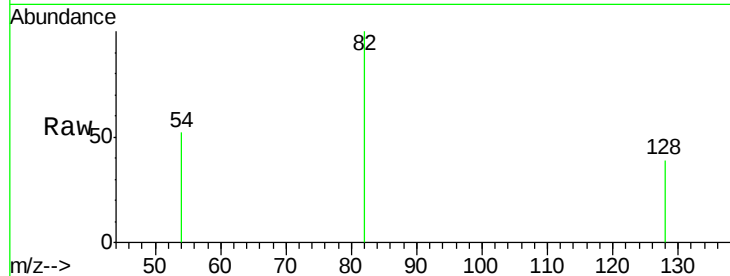
Tgt Ion: 82 Resp: 98682

Ion Ratio Lower Upper

82 100

128 38.5 30.2 45.4

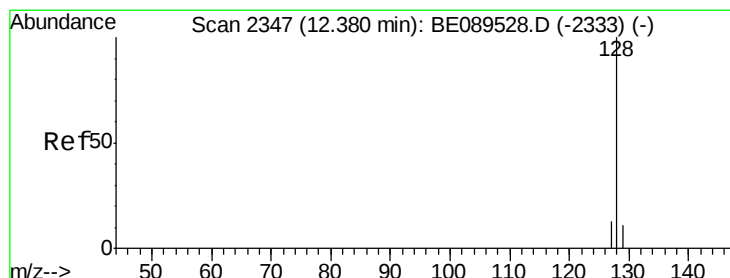
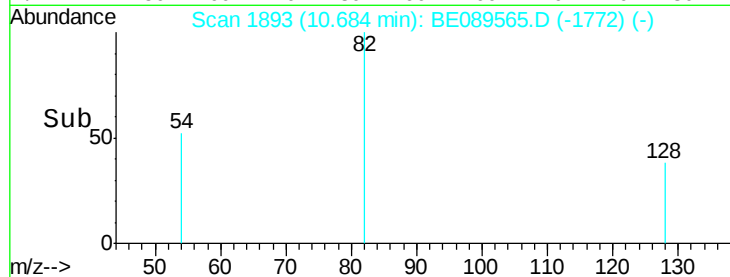
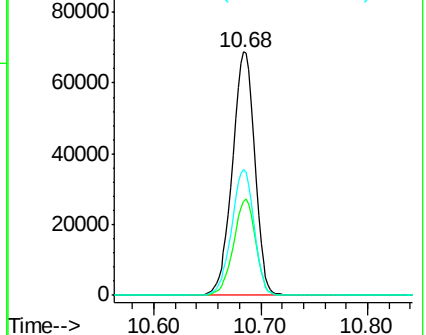
54 51.7 40.6 60.8



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: BE089565.D

Acq: 7 Feb 2015 19:10

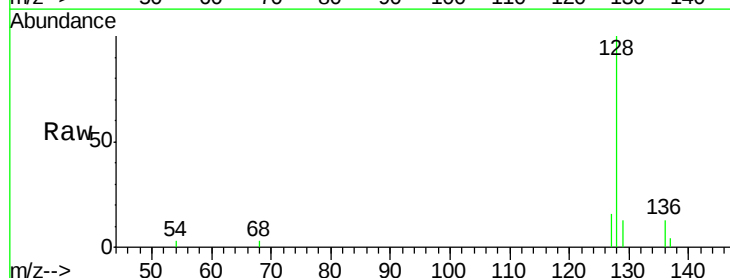
Tgt Ion: 128 Resp: 2829

Ion Ratio Lower Upper

128 100

129 12.9 9.1 13.7

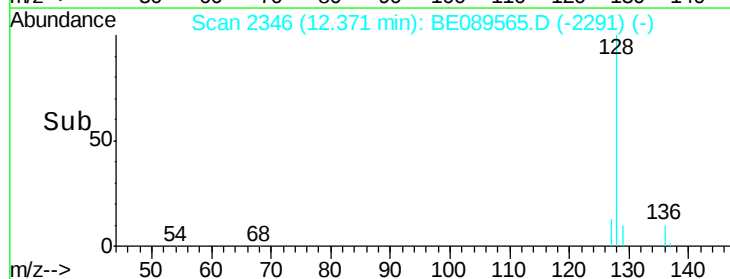
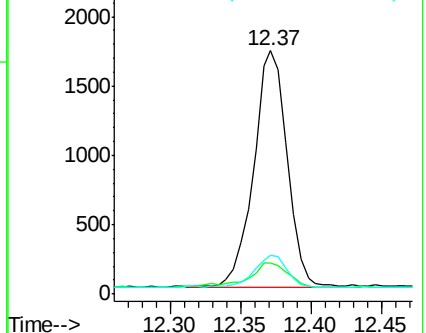
127 15.9 10.5 15.7#

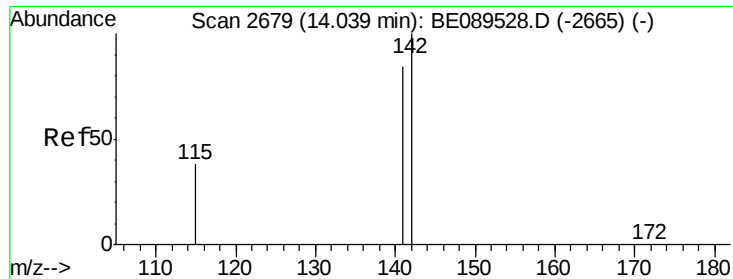


Abundance Ion 128.00 (127.70 to 128.70): E

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: 14.03 min Scan# 2678

Delta R.T. -0.01 min

Lab File: BE089565.D

Acq: 7 Feb 2015 19:10

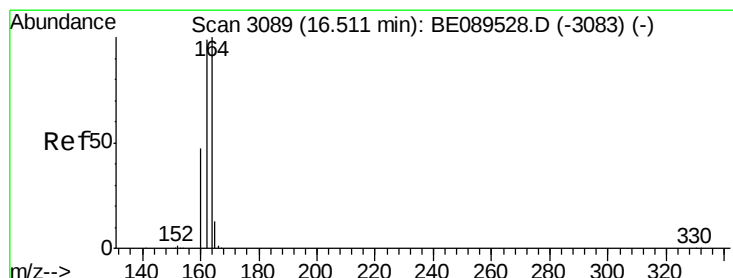
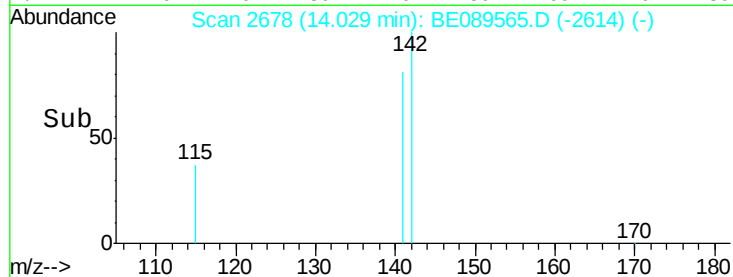
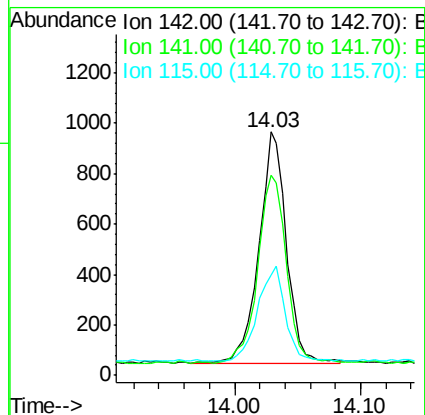
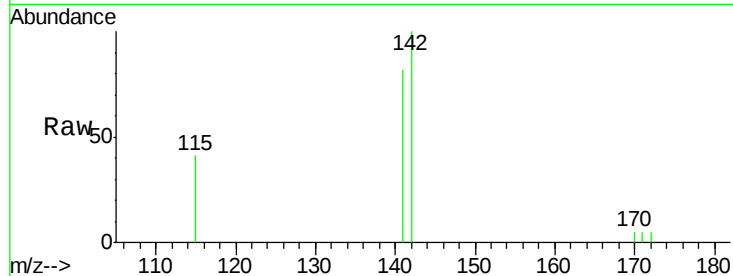
Instrument :

BNA_E

ClientSampleId :

MDL-04-W

Tgt Ion:	142	Resp:	1421
Ion	Ratio	Lower	Upper
142	100		
141	82.2	67.0	100.6
115	41.2	30.6	45.8



#6

Acenaphthene-d10

Concen: 5.00 ng

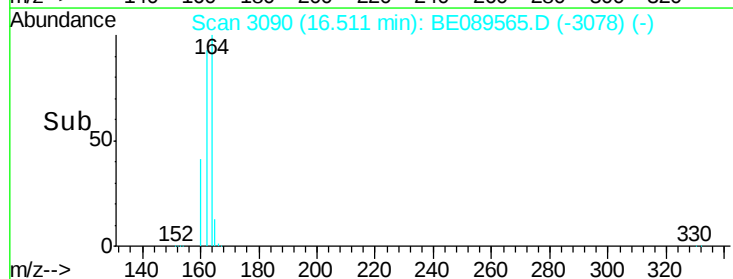
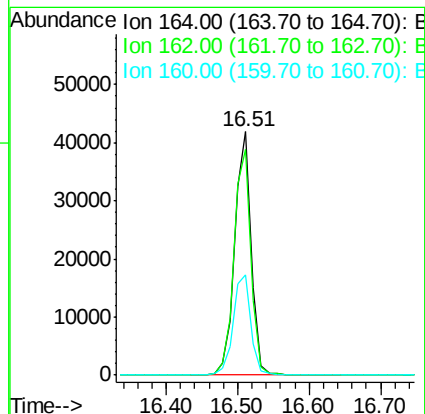
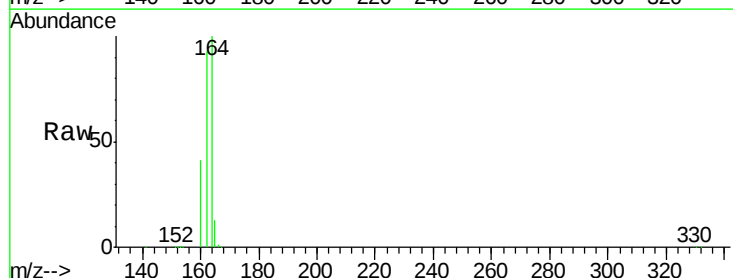
RT: 16.51 min Scan# 3090

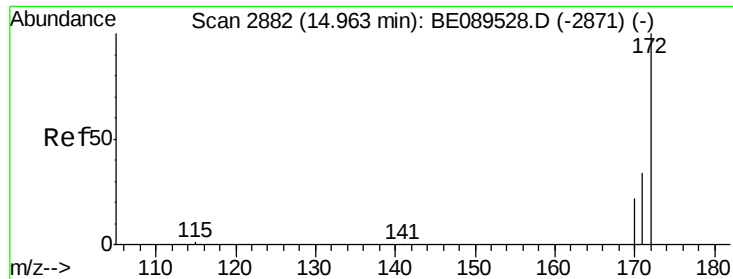
Delta R.T. 0.00 min

Lab File: BE089565.D

Acq: 7 Feb 2015 19:10

Tgt Ion:	164	Resp:	68248
Ion	Ratio	Lower	Upper
164	100		
162	92.8	79.5	119.3
160	41.4	37.6	56.4





#7

2-Fluorobiphenyl

Concen: 7.70 ng

RT: 14.96 min Scan# 2883

Delta R.T. -0.00 min

Lab File: BE089565.D

Acq: 7 Feb 2015 19:10

Instrument :

BNA_E

ClientSampleId :

MDL-04-W

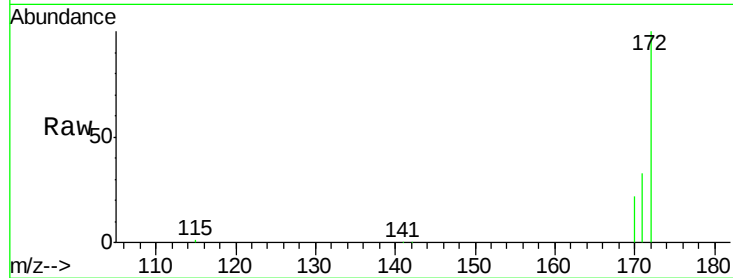
Tgt Ion:172 Resp: 140103

Ion Ratio Lower Upper

172 100

171 33.4 27.7 41.5

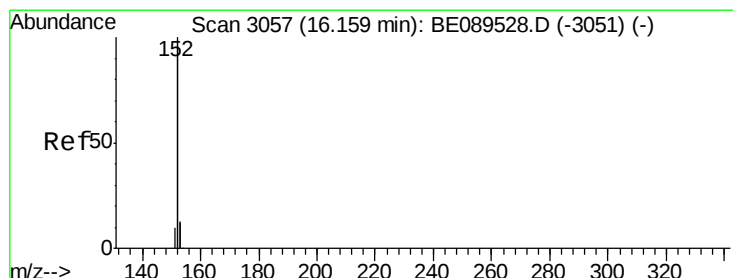
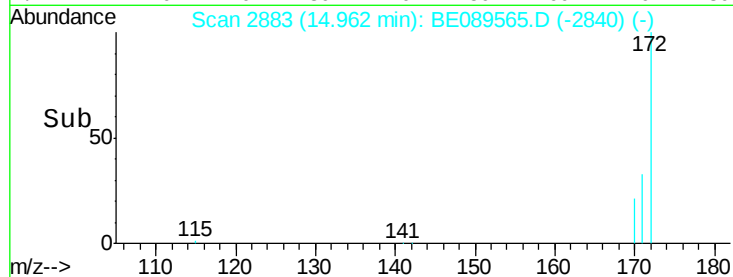
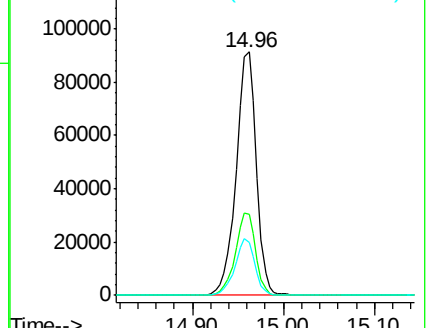
170 21.5 18.3 27.5



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: 0.06 ng

RT: 16.16 min Scan# 3058

Delta R.T. 0.00 min

Lab File: BE089565.D

Acq: 7 Feb 2015 19:10

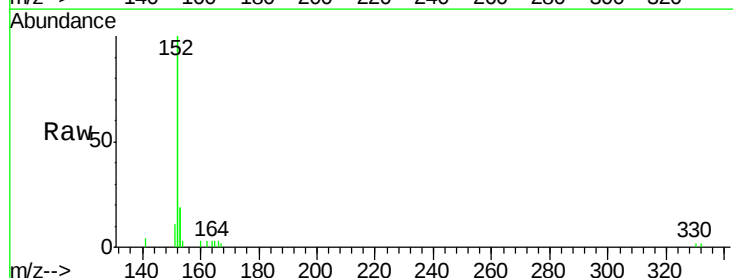
Tgt Ion:152 Resp: 6394

Ion Ratio Lower Upper

152 100

151 5.4 4.0 6.0

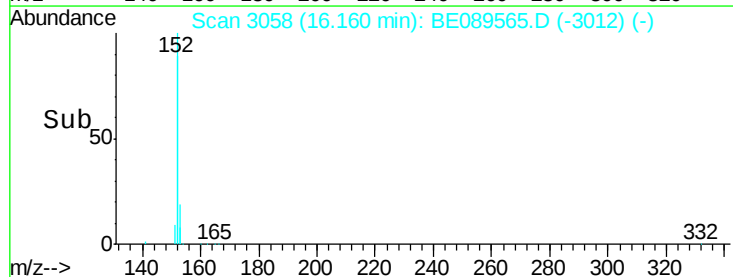
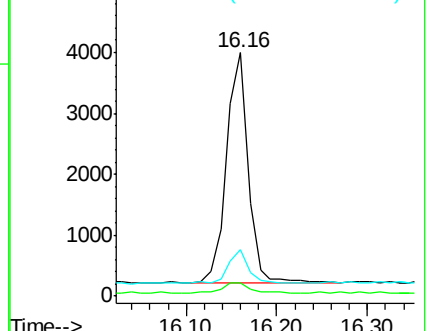
153 13.8 10.6 15.8

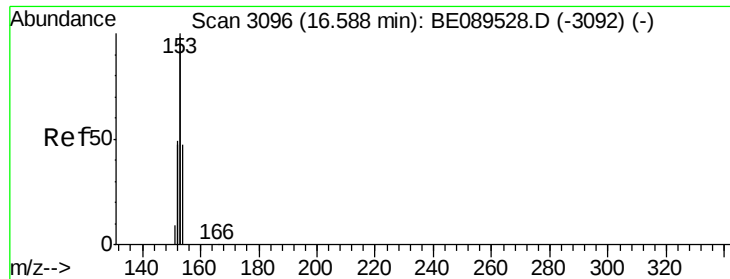


Abundance Ion 152.00 (151.70 to 152.70): E

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: BE089565.D

Acq: 7 Feb 2015 19:10

Instrument :

BNA_E

ClientSampleId :

MDL-04-W

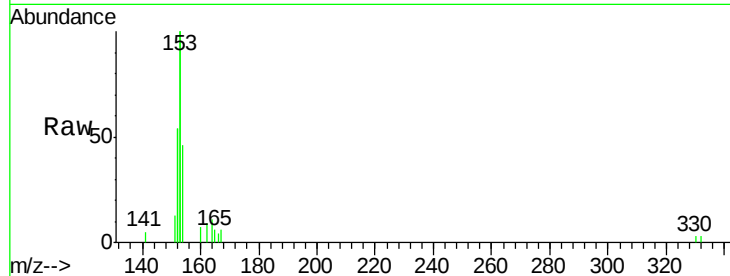
Tgt Ion:154 Resp: 1123

Ion Ratio Lower Upper

154 100

153 460.6 340.8 511.2

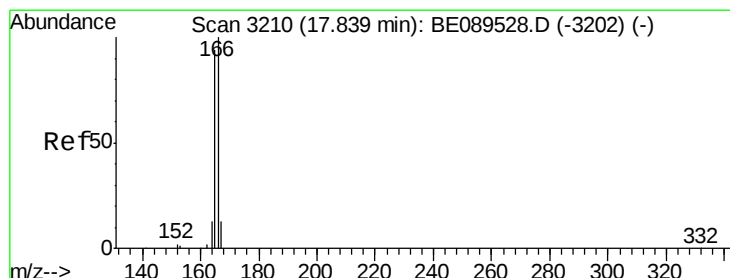
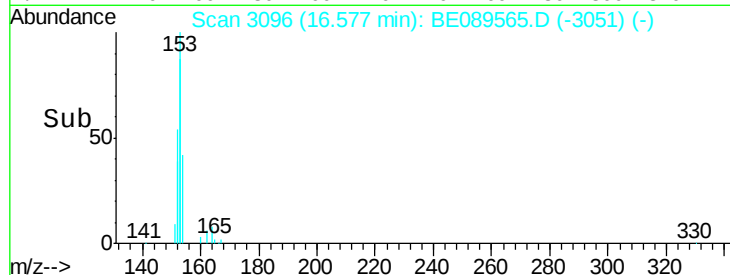
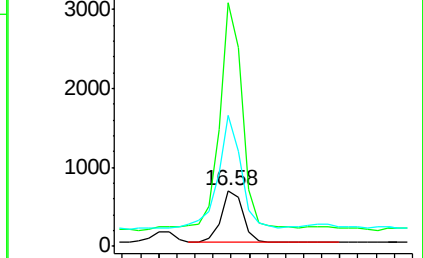
152 231.2 165.5 248.3



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: BE089565.D

Acq: 7 Feb 2015 19:10

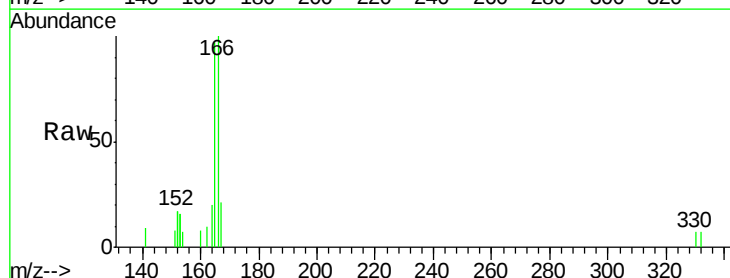
Tgt Ion:166 Resp: 1097

Ion Ratio Lower Upper

166 100

165 90.4 75.5 113.3

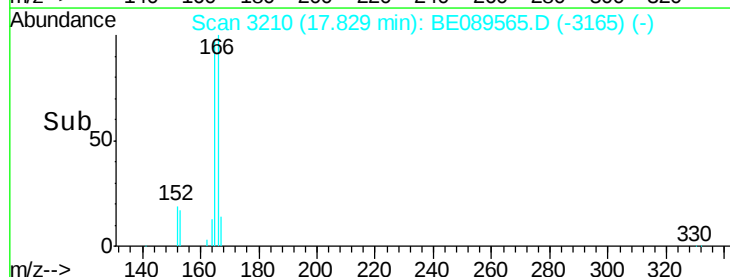
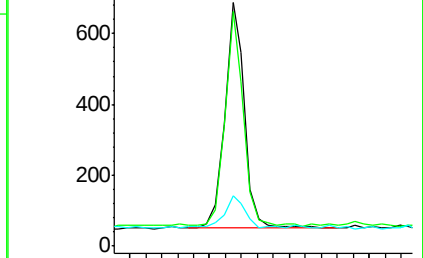
167 15.8 10.9 16.3

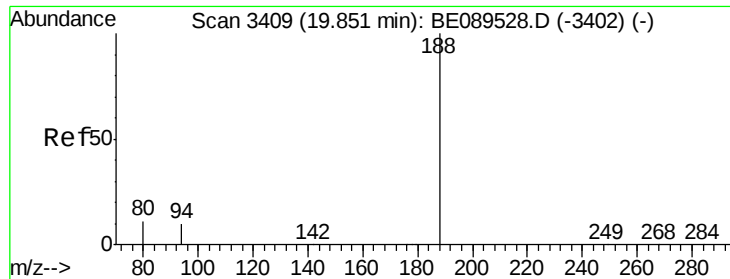


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

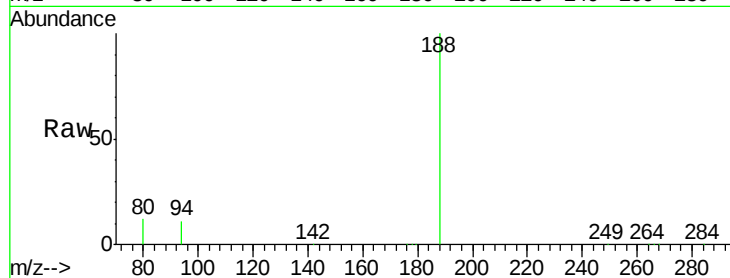




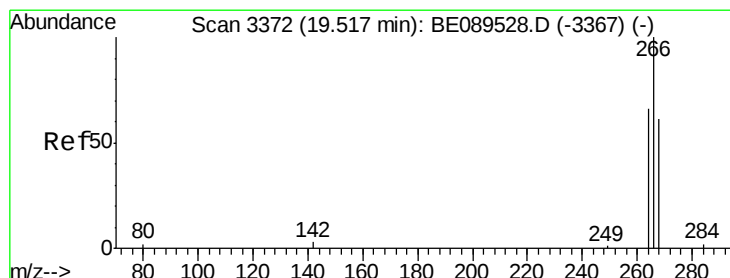
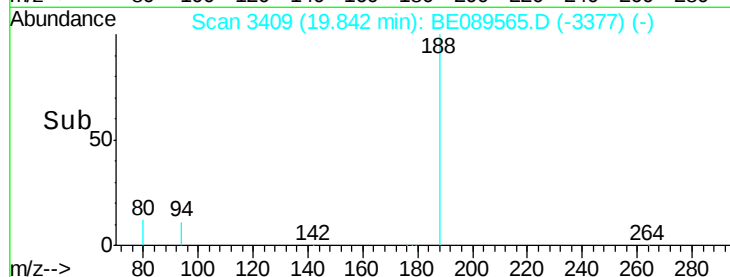
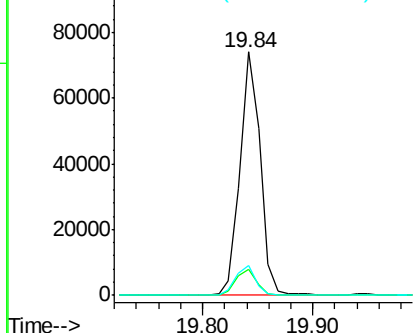
#11
Phenanthrene-d10
Concen: 5.00 ng
RT: 19.84 min Scan# 3409
Delta R.T. -0.01 min
Lab File: BE089565.D
Acq: 7 Feb 2015 19:10

Instrument :
BNA_E
ClientSampleId :
MDL-04-W

Tgt Ion:188 Resp: 94560
Ion Ratio Lower Upper
188 100
94 10.9 8.4 12.6
80 12.0 8.6 12.8

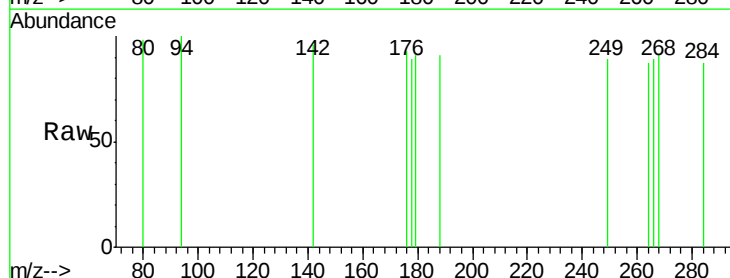


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BE0
Ion 80.00 (79.70 to 80.70): BE0

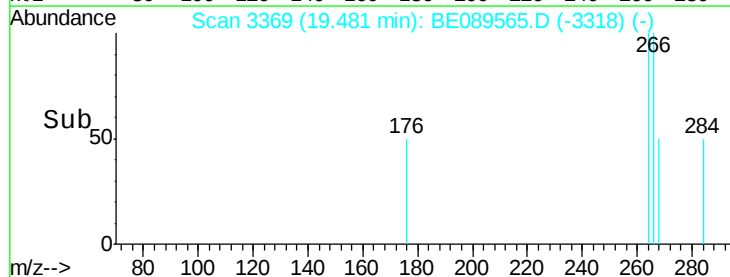
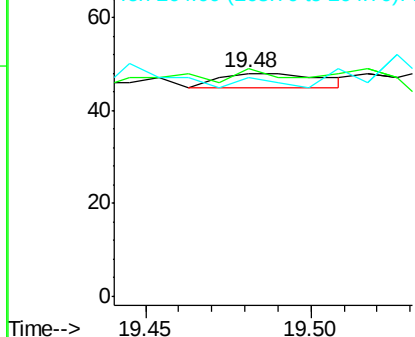


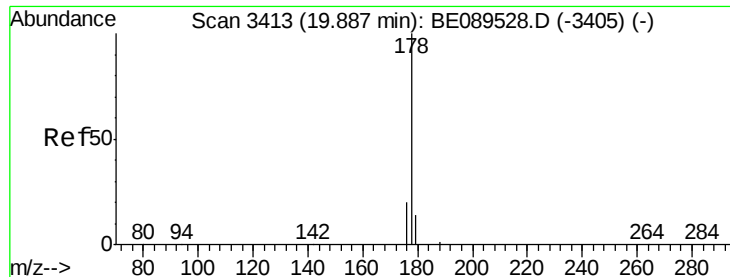
#12
Pentachlorophenol
Concen: 0.54 ng
RT: 19.48 min Scan# 3369
Delta R.T. -0.04 min
Lab File: BE089565.D
Acq: 7 Feb 2015 19:10

Tgt Ion:266 Resp: 6
Ion Ratio Lower Upper
266 100
268 102.1 57.9 86.9#
264 97.9 60.2 90.4#



Abundance Ion 265.70 (265.40 to 266.40): E
Ion 268.00 (267.70 to 268.70): E
Ion 264.00 (263.70 to 264.70): E

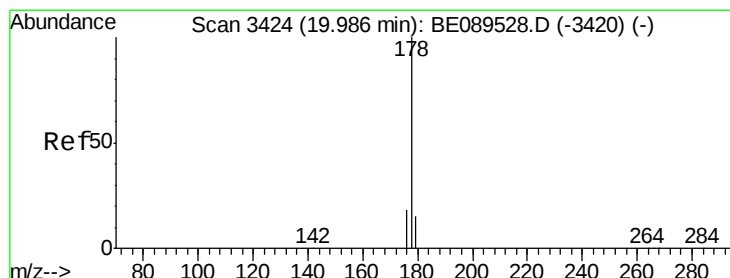
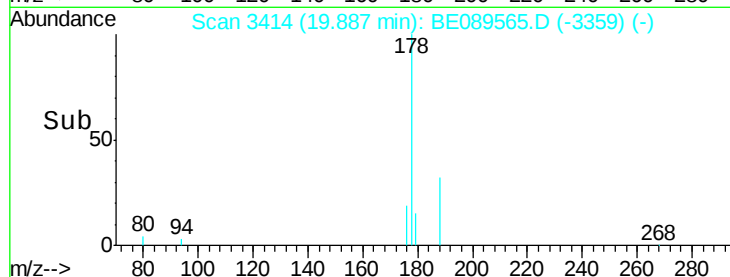
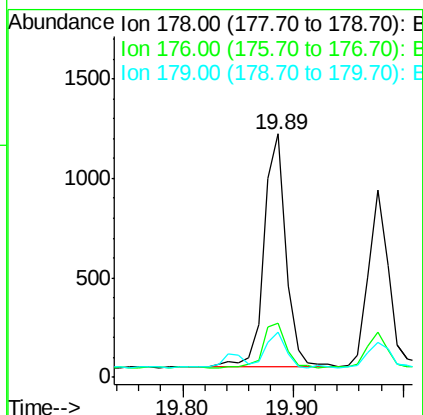
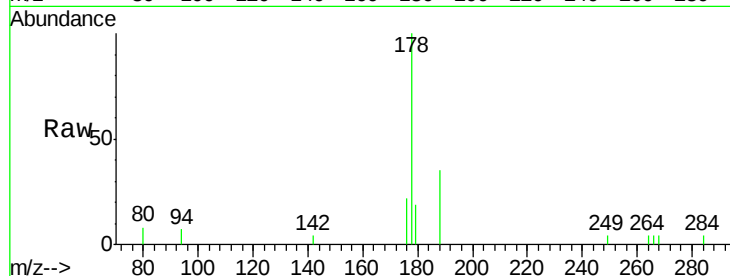




#13
Phenanthrene
Concen: 0.07 ng
RT: 19.89 min Scan# 3414
Delta R.T. -0.00 min
Lab File: BE089565.D
Acq: 7 Feb 2015 19:10

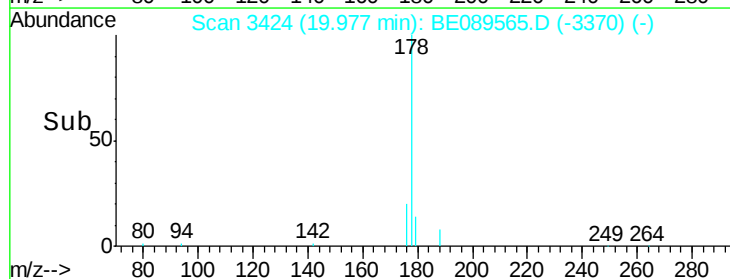
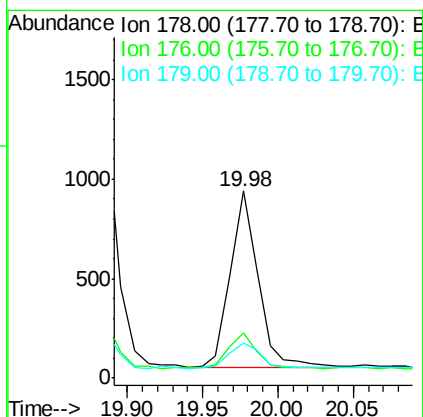
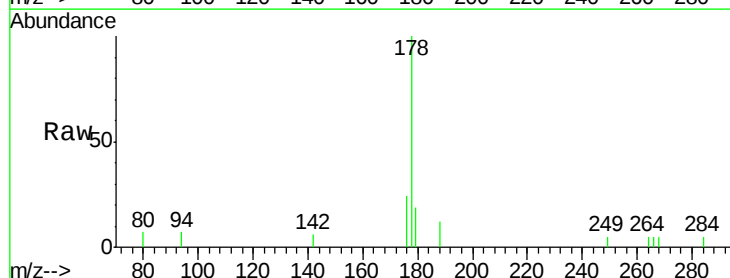
Instrument :
BNA_E
ClientSampleId :
MDL-04-W

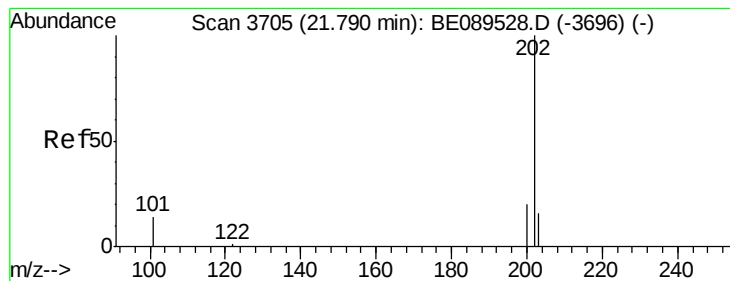
Tgt Ion:178 Resp: 1625
Ion Ratio Lower Upper
178 100
176 20.2 15.4 23.0
179 13.5 12.2 18.2



#14
Anthracene
Concen: 0.06 ng
RT: 19.98 min Scan# 3424
Delta R.T. -0.01 min
Lab File: BE089565.D
Acq: 7 Feb 2015 19:10

Tgt Ion:178 Resp: 1137
Ion Ratio Lower Upper
178 100
176 20.3 14.5 21.7
179 16.4 12.2 18.2





#15

Fluoranthene

Concen: 0.05 ng

RT: 21.79 min Scan# 3705

Delta R.T. -0.00 min

Lab File: BE089565.D

Acq: 7 Feb 2015 19:10

Instrument :

BNA_E

ClientSampled :

MDL-04-W

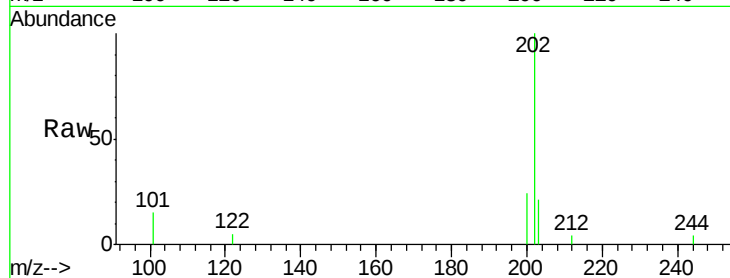
Tgt Ion:202 Resp: 1170

Ion Ratio Lower Upper

202 100

101 12.2 11.6 17.4

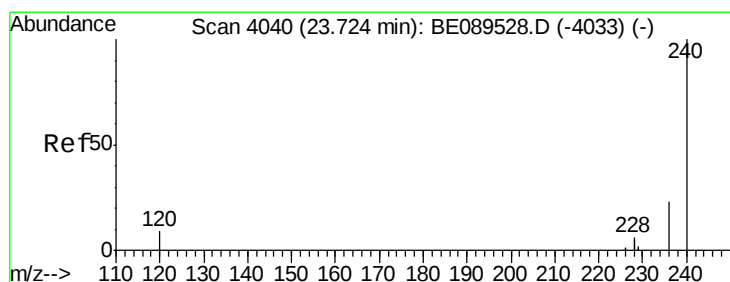
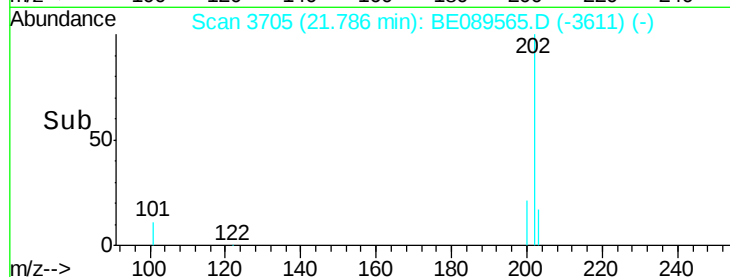
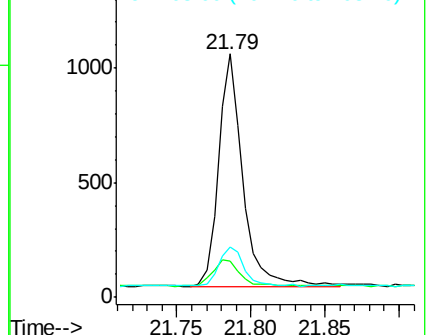
203 17.3 13.6 20.4



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#16

Chrysene-d12

Concen: 5.00 ng

RT: 23.72 min Scan# 4040

Delta R.T. -0.01 min

Lab File: BE089565.D

Acq: 7 Feb 2015 19:10

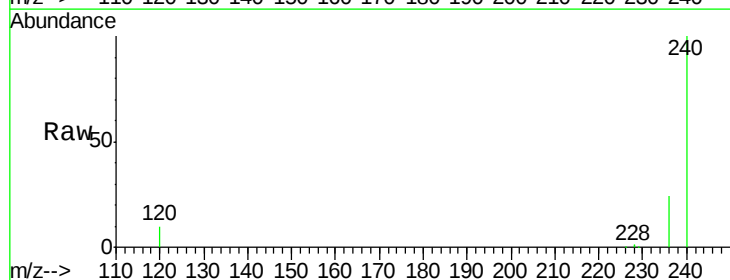
Tgt Ion:240 Resp: 107600

Ion Ratio Lower Upper

240 100

120 9.9 7.2 10.8

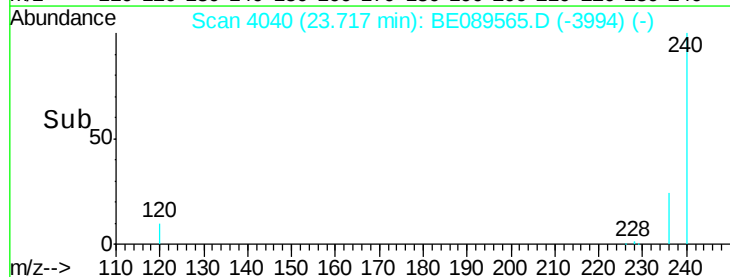
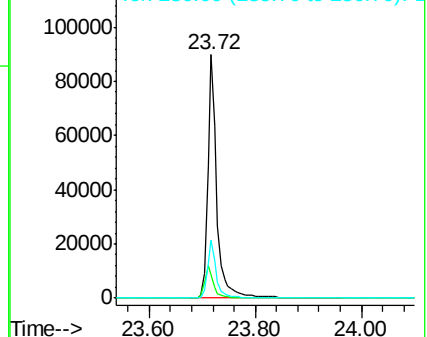
236 24.0 18.5 27.7

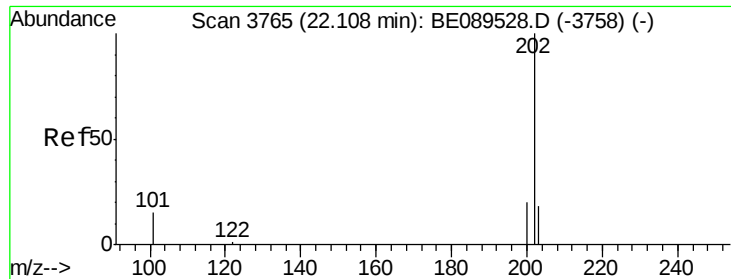


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#17

Pyrene

Concen: 0.06 ng

RT: 22.10 min Scan# 3764

Delta R.T. -0.01 min

Lab File: BE089565.D

Acq: 7 Feb 2015 19:10

Instrument :

BNA_E

ClientSampleId :

MDL-04-W

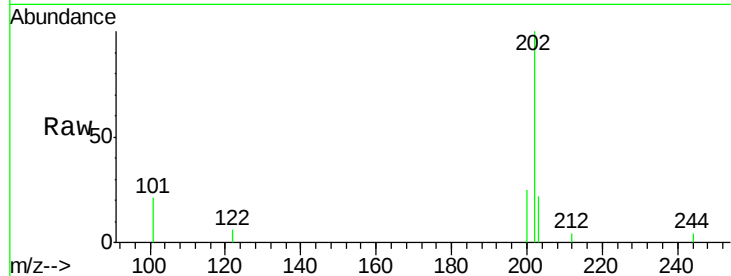
Tgt Ion: 202 Resp: 1285

Ion Ratio Lower Upper

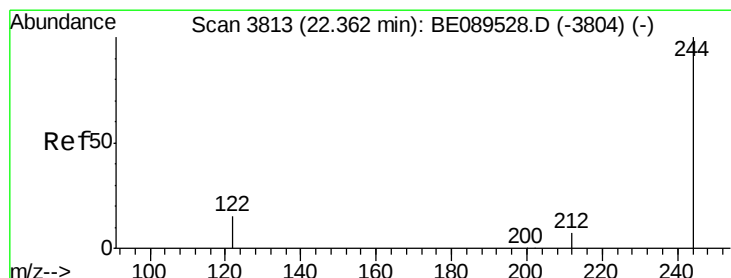
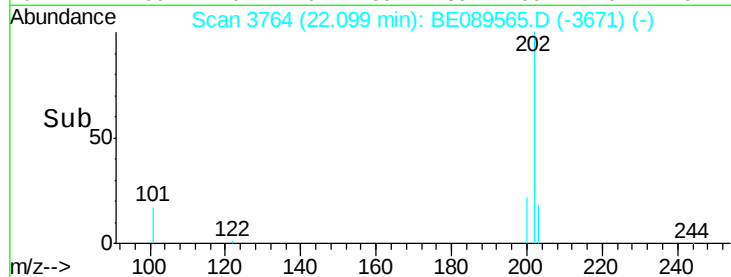
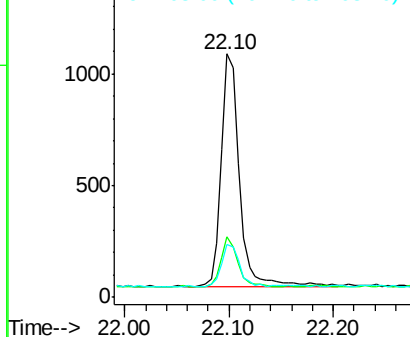
202 100

200 19.2 16.3 24.5

203 18.0 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: 7.99 ng

RT: 22.36 min Scan# 3813

Delta R.T. -0.00 min

Lab File: BE089565.D

Acq: 7 Feb 2015 19:10

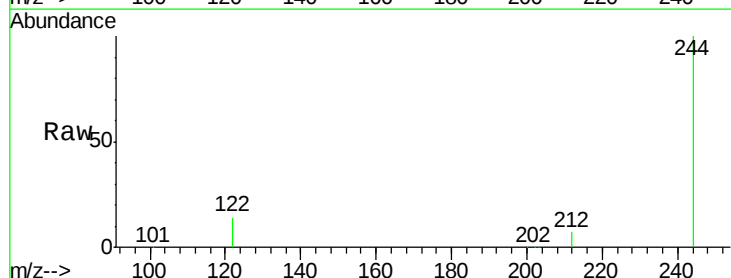
Tgt Ion: 244 Resp: 113473

Ion Ratio Lower Upper

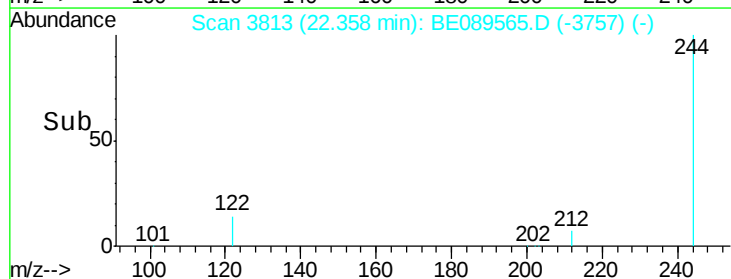
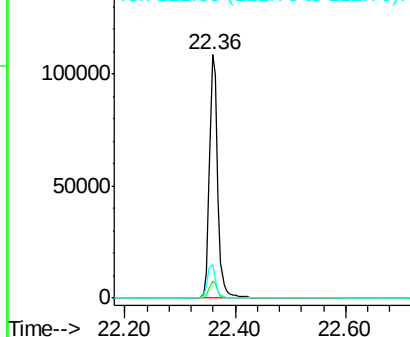
244 100

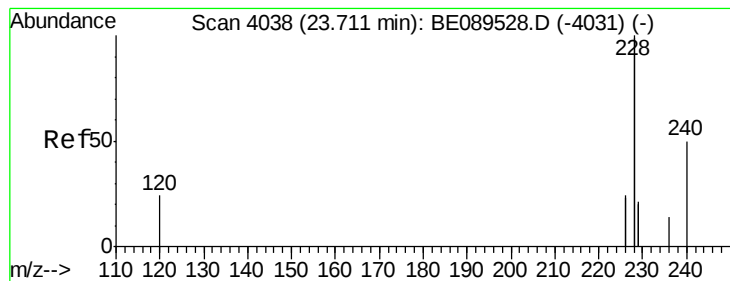
212 6.9 5.8 8.8

122 14.1 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: BE089565.D

Acq: 7 Feb 2015 19:10

Instrument :

BNA_E

ClientSampleId :

MDL-04-W

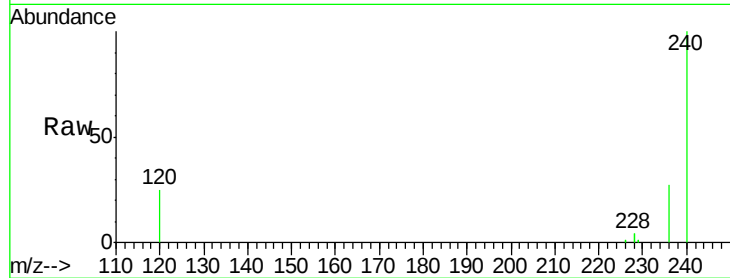
Tgt Ion:228 Resp: 5663

Ion Ratio Lower Upper

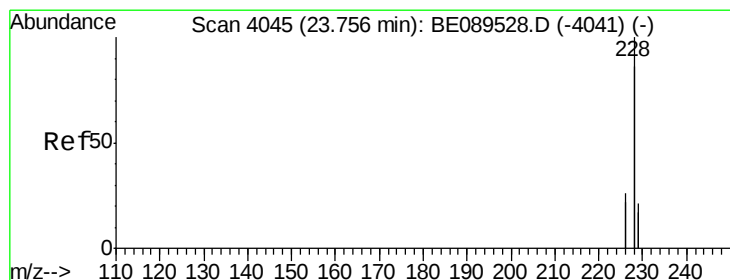
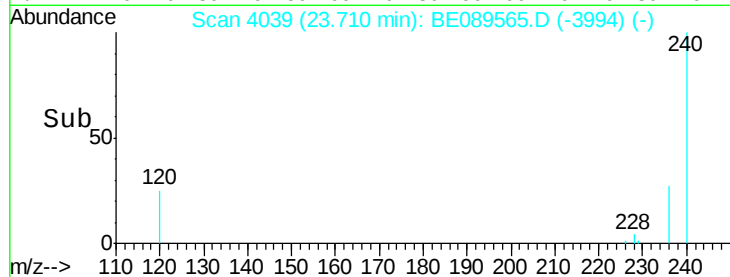
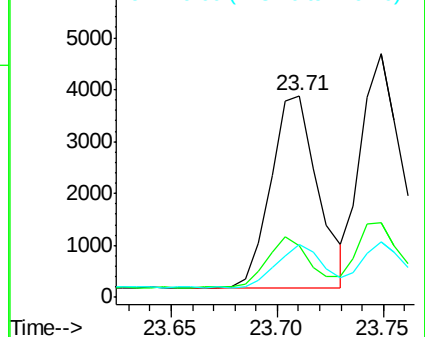
228 100

226 25.4 19.0 28.4

229 26.2 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: 0.08 ng

RT: 23.75 min Scan# 4045

Delta R.T. -0.01 min

Lab File: BE089565.D

Acq: 7 Feb 2015 19:10

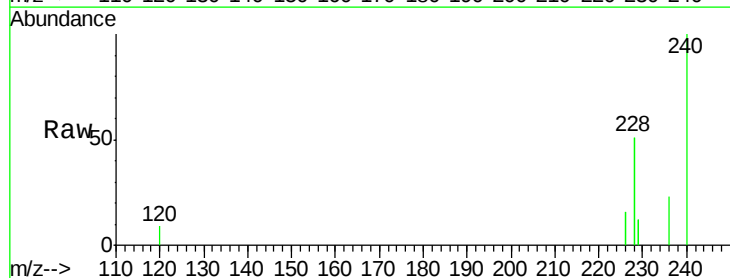
Tgt Ion:228 Resp: 7434

Ion Ratio Lower Upper

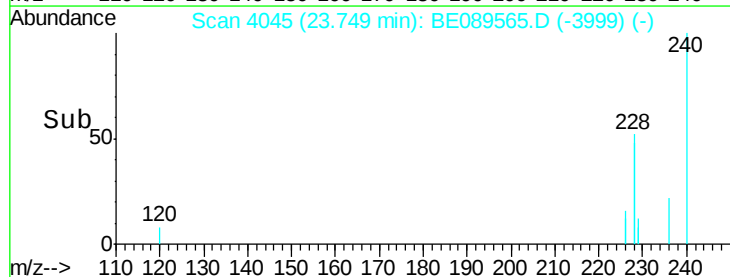
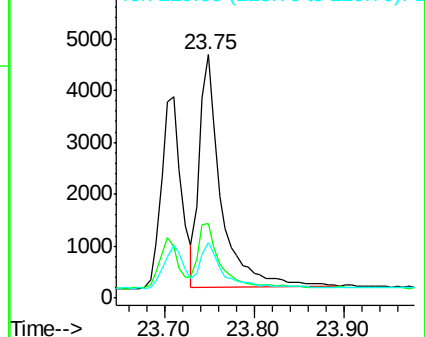
228 100

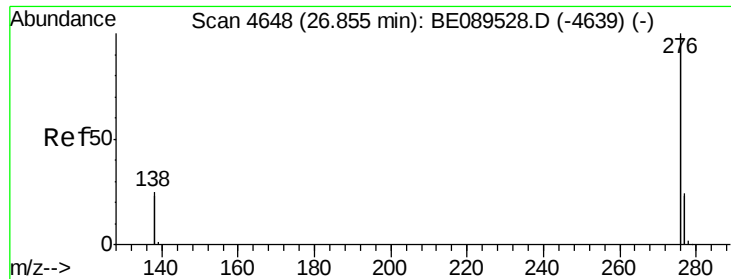
226 30.7 21.0 31.4

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# 4647

Delta R.T. -0.01 min

Lab File: BE089565.D

Acq: 7 Feb 2015 19:10

Instrument :

BNA_E

ClientSampleId :

MDL-04-W

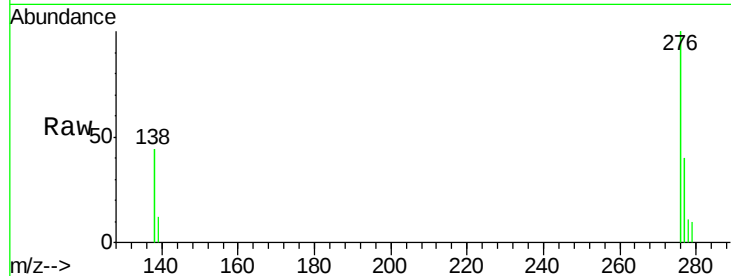
Tgt Ion:276 Resp: 4236

Ion Ratio Lower Upper

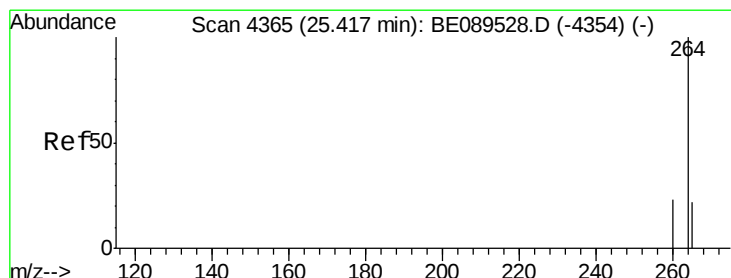
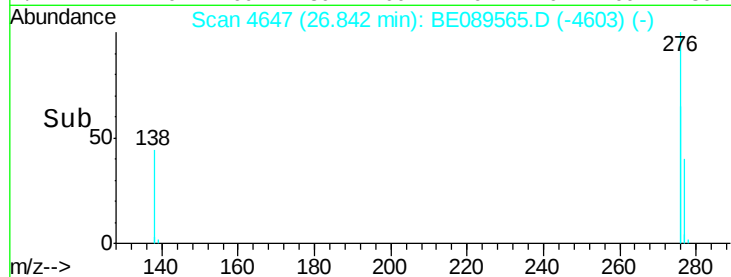
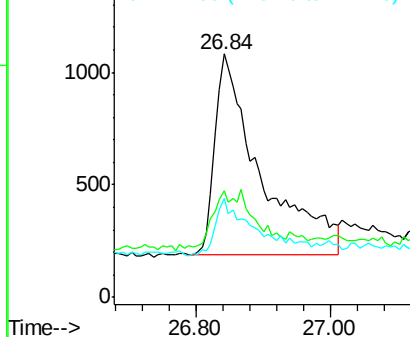
276 100

138 13.5 23.0 34.4#

277 21.0 19.9 29.9



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# 4365

Delta R.T. -0.01 min

Lab File: BE089565.D

Acq: 7 Feb 2015 19:10

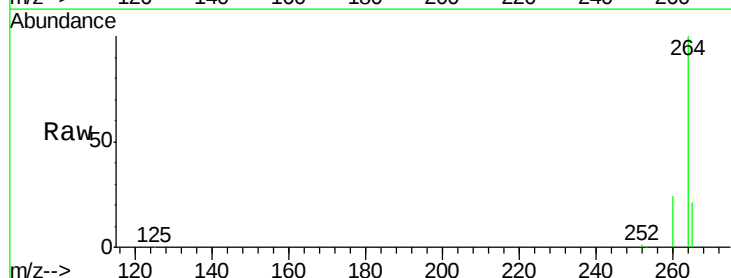
Tgt Ion:264 Resp: 131069

Ion Ratio Lower Upper

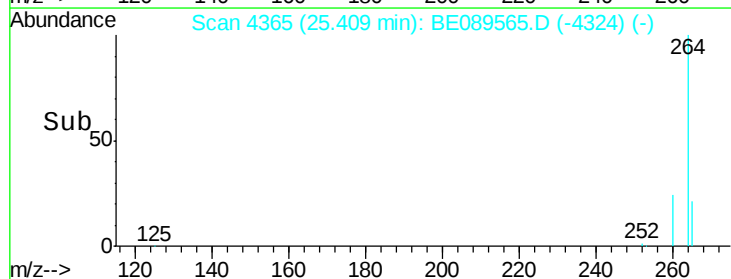
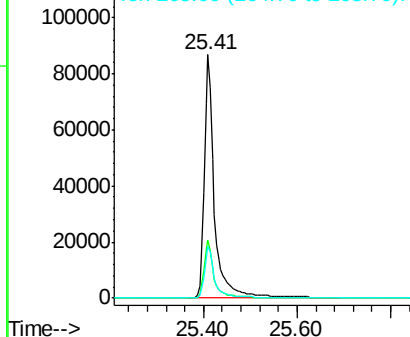
264 100

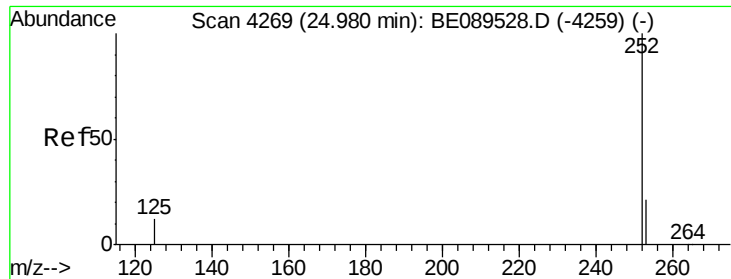
260 23.8 18.7 28.1

265 21.1 17.5 26.3



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: 0.03 ng

RT: 24.97 min Scan# 4269

Delta R.T. -0.01 min

Lab File: BE089565.D

Acq: 7 Feb 2015 19:10

Instrument :

BNA_E

ClientSampleId :

MDL-04-W

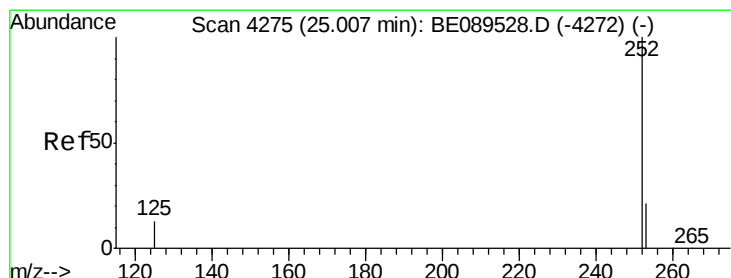
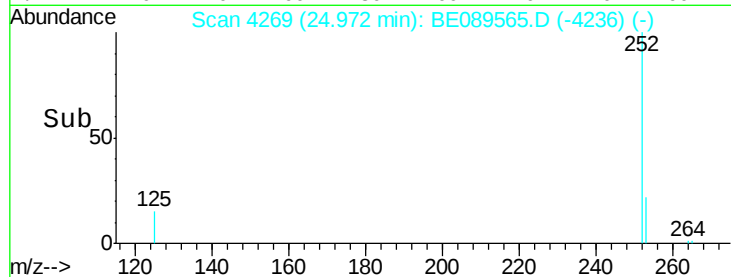
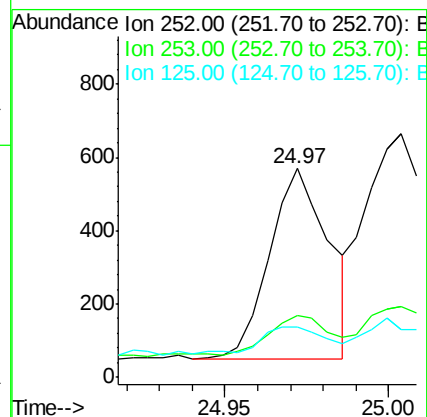
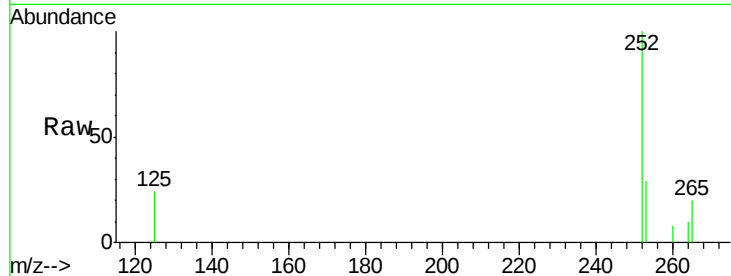
Tgt Ion:252 Resp: 656

Ion Ratio Lower Upper

252 100

253 29.3 17.4 26.0#

125 24.0 10.4 15.6#



#24

Benzo(k)fluoranthene

Concen: 0.04 ng

RT: 25.00 min Scan# 4276

Delta R.T. -0.00 min

Lab File: BE089565.D

Acq: 7 Feb 2015 19:10

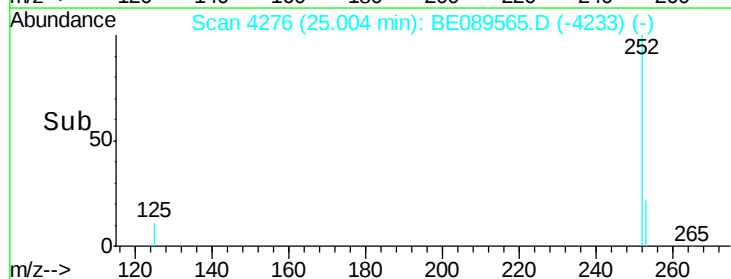
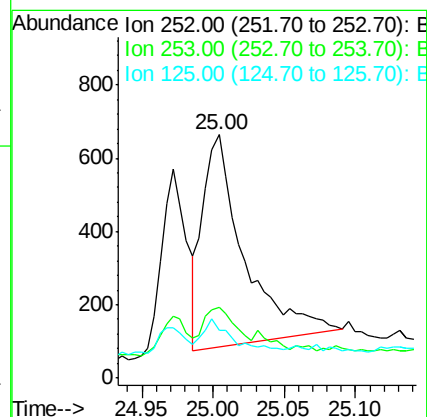
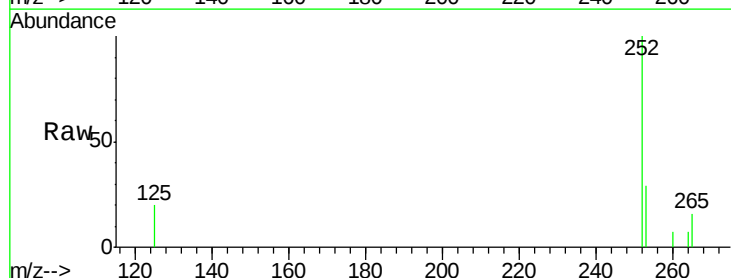
Tgt Ion:252 Resp: 1161

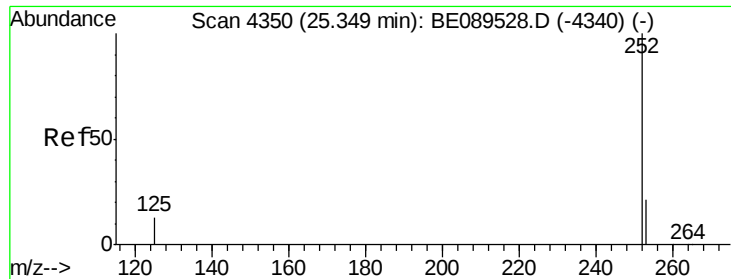
Ion Ratio Lower Upper

252 100

253 29.1 17.2 25.8#

125 19.9 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: BE089565.D

Acq: 7 Feb 2015 19:10

Instrument :

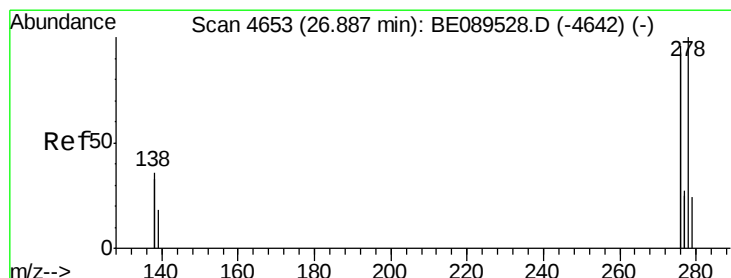
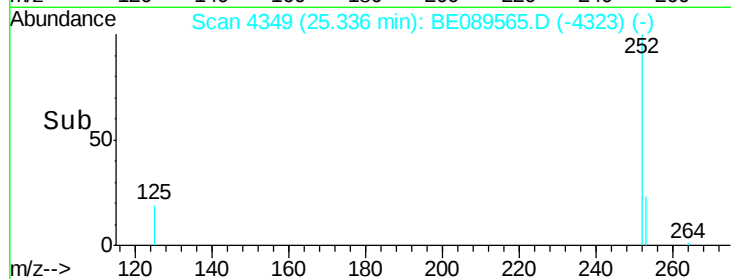
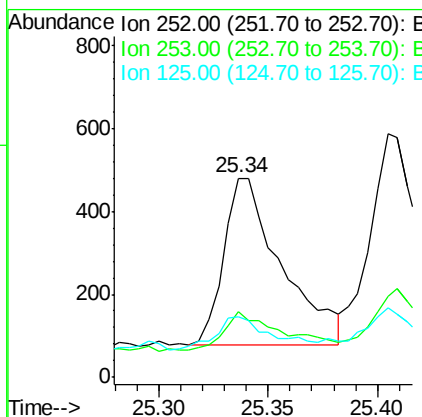
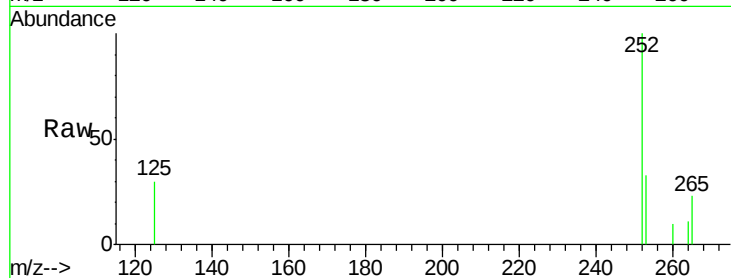
BNA_E

ClientSampleId :

MDL-04-W

Tgt Ion: 252 Resp: 737

Ion	Ratio	Lower	Upper
252	100		
253	32.8	17.8	26.6#
125	30.1	11.4	17.2#



#26

Dibenzo(a,h)anthracene

Concen: 0.02 ng

RT: 26.87 min Scan# 4652

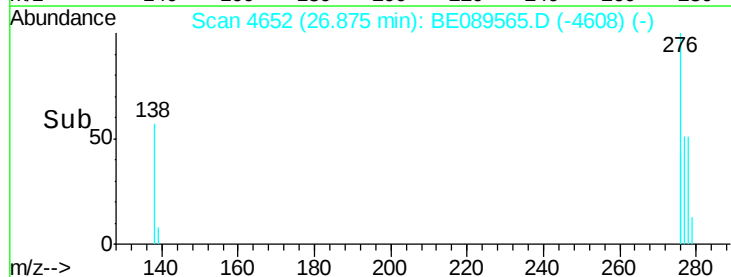
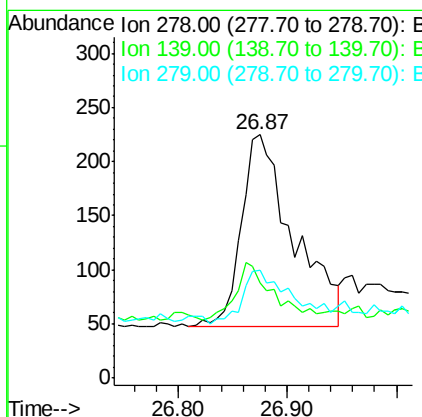
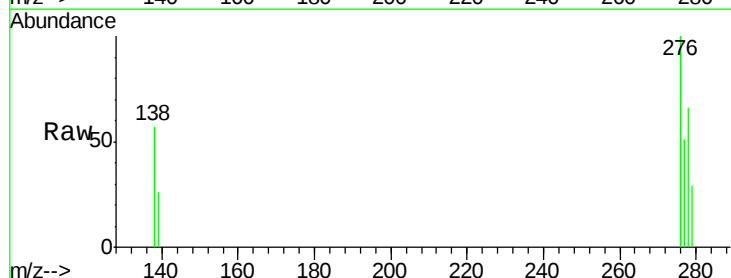
Delta R.T. -0.01 min

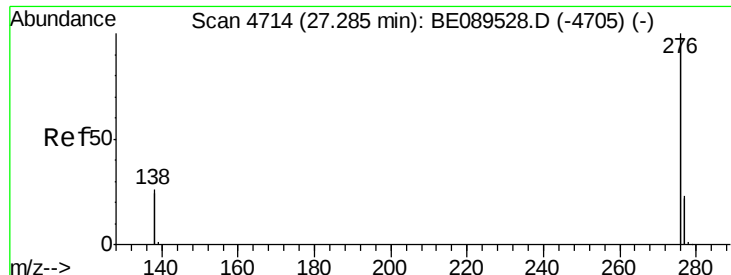
Lab File: BE089565.D

Acq: 7 Feb 2015 19:10

Tgt Ion: 278 Resp: 586

Ion	Ratio	Lower	Upper
278	100		
139	39.1	15.7	23.5#
279	44.0	19.5	29.3#





#27

Benzo(g,h,i)perylene

Concen: 0.04 ng

RT: 27.27 min Scan# 4713

Delta R.T. -0.01 min

Lab File: BE089565.D

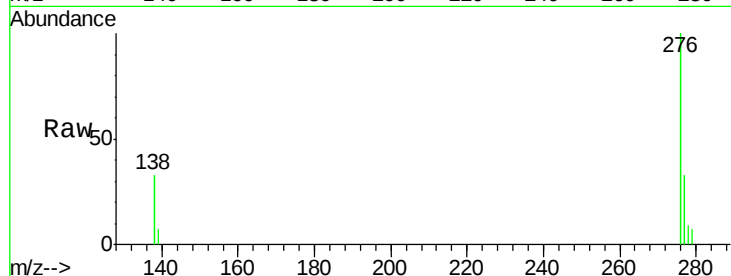
Acq: 7 Feb 2015 19:10

Instrument :

BNA_E

ClientSampleId :

MDL-04-W



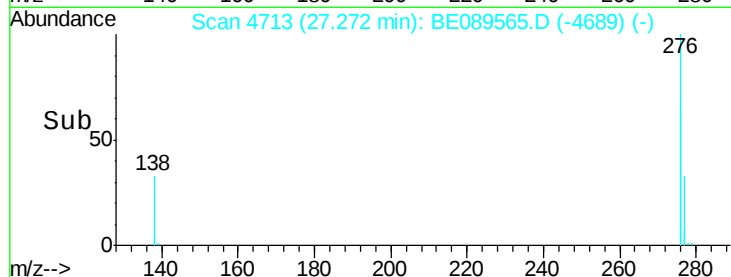
Tgt Ion: 276 Resp: 5400

Ion Ratio Lower Upper

276 100

277 32.7 18.6 27.8#

138 33.1 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

