

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE021015\
 Data File : BE089563.D
 Acq On : 11 Feb 2015 00:18
 Operator : TP/IZ
 Sample : MDL-02-W
 Misc : MDL-WATER-0.1/0.2
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 MDL-02-W

Quant Time: Feb 11 02:35:04 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	65186	5.00	ng	0.00
2) Naphthalene-d8	12.32	136	249461	5.00	ng	0.00
6) Acenaphthene-d10	16.50	164	115859	5.00	ng	0.00
11) Phenanthrene-d10	19.84	188	205299	5.00	ng	0.00
16) Chrysene-d12	23.72	240	238427	5.00	ng	0.00
22) Perylene-d12	25.40	264	237733	5.00	ng	0.00

System Monitoring Compounds						
3) Nitrobenzene-d5	10.68	82	136575	8.54	ng	0.00
7) 2-Fluorobiphenyl	14.96	172	208099	6.63	ng	0.00
18) Terphenyl-d14	22.36	244	253850	8.55	ng	0.00

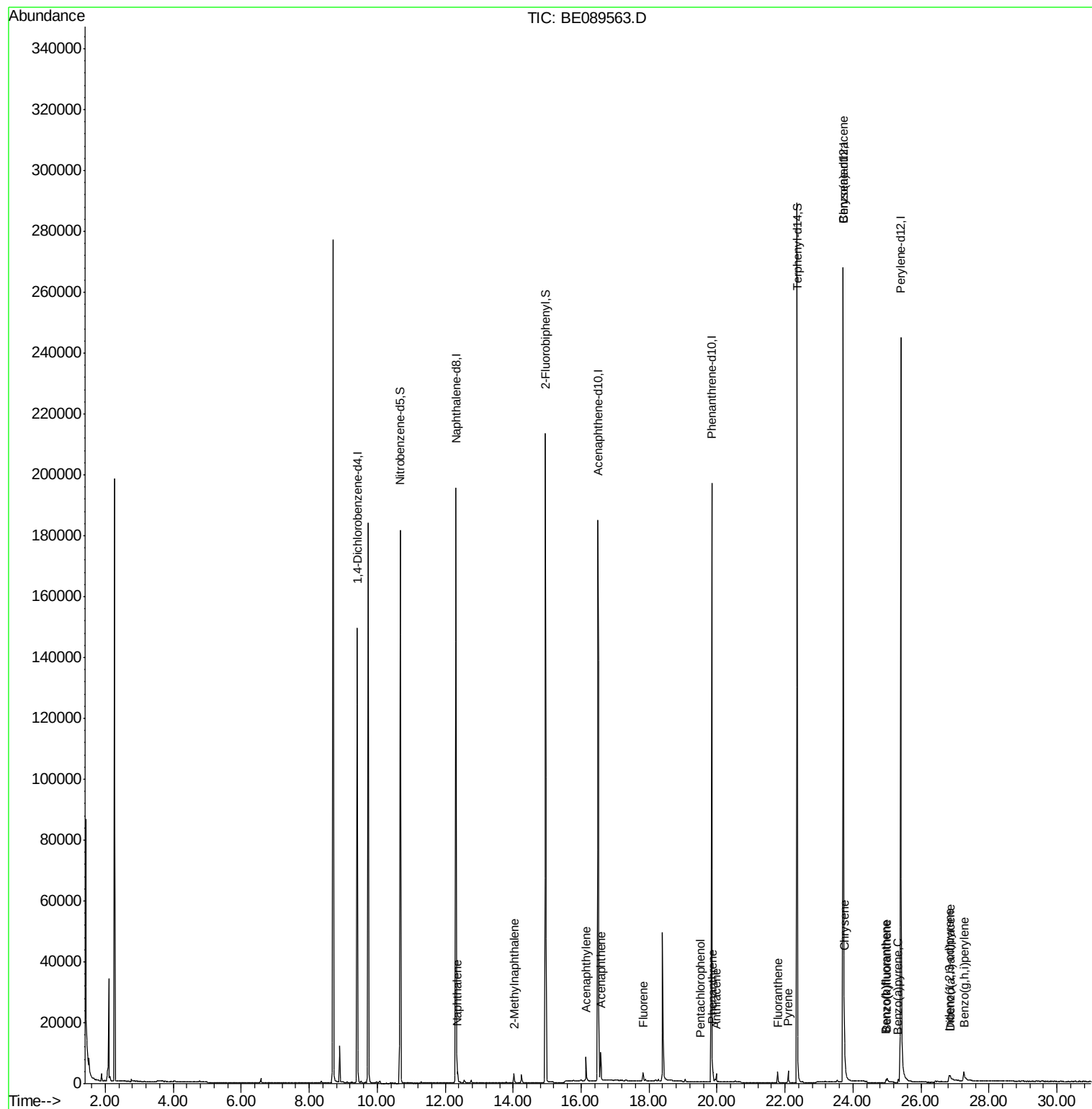
Target Compounds						Qvalue
4) Naphthalene	12.37	128	4045	0.07	ng	# 94
5) 2-Methylnaphthalene	14.02	142	2079	0.07	ng	97
8) Acenaphthylene	16.15	152	10511	0.05	ng	99
9) Acenaphthene	16.58	154	1852	0.06	ng	93
10) Fluorene	17.83	166	1994	0.06	ng	98
12) Pentachlorophenol	19.52	266	45	0.34	ng	# 73
13) Phenanthrene	19.88	178	3559	0.07	ng	98
14) Anthracene	19.98	178	2593	0.06	ng	99
15) Fluoranthene	21.78	202	2809	0.06	ng	97
17) Pyrene	22.09	202	3064	0.06	ng	99
19) Benzo(a)anthracene	23.70	228	13446	0.07	ng	94
20) Chrysene	23.74	228	16638	0.07	ng	98
21) Indeno(1,2,3-cd)pyrene	26.83	276	5410	0.06	ng	# 85
23) Benzo(b)fluoranthene	24.97	252	1275	0.26	ng	# 88
24) Benzo(k)fluoranthene	25.00	252	2486	0.04	ng	# 91
25) Benzo(a)pyrene	25.33	252	1455	0.22	ng	# 82
26) Dibenzo(a,h)anthracene	26.86	278	960	0.14	ng	# 68
27) Benzo(g,h,i)perylene	27.26	276	7957	0.04	ng	# 80

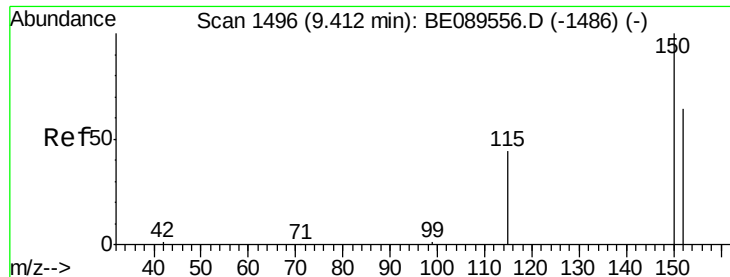
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: BE089563.D

Acq: 11 Feb 2015 00:18

Instrument :

BNA_E

ClientSampleId :

MDL-02-W

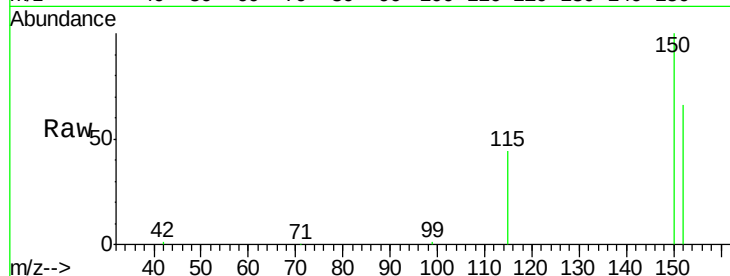
Tgt Ion:152 Resp: 65186

Ion Ratio Lower Upper

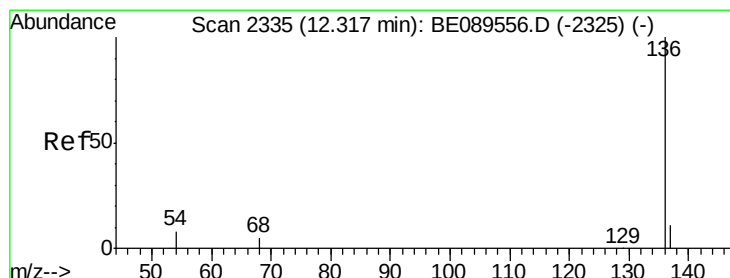
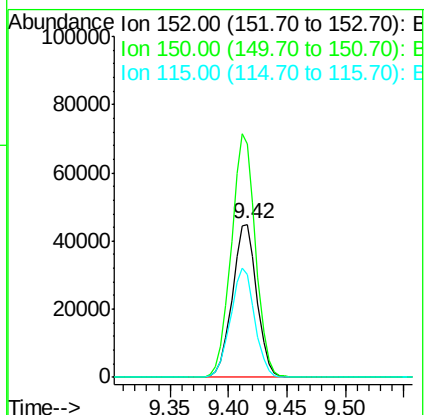
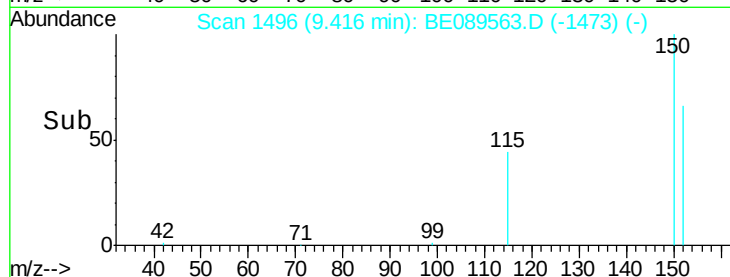
152 100

150 152.4 125.6 188.4

115 66.9 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# 2335

Delta R.T. 0.01 min

Lab File: BE089563.D

Acq: 11 Feb 2015 00:18

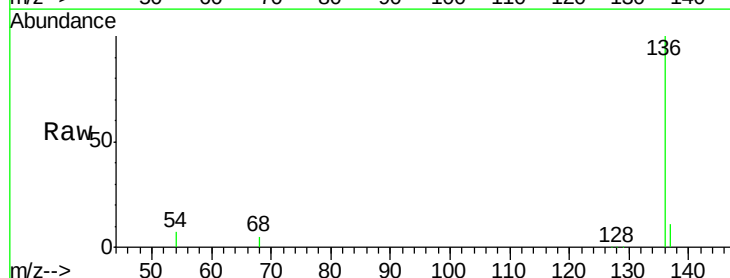
Tgt Ion:136 Resp: 249461

Ion Ratio Lower Upper

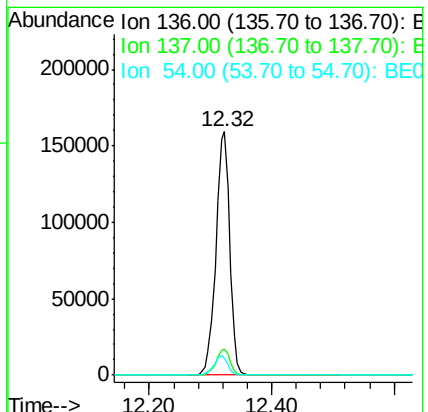
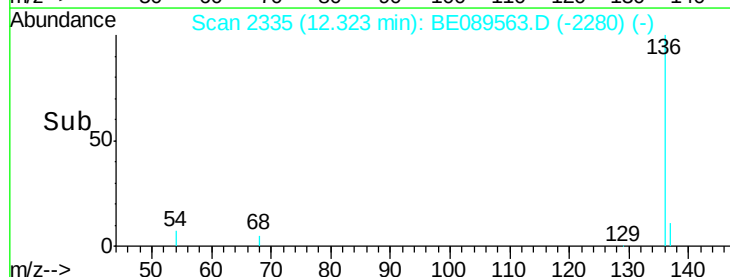
136 100

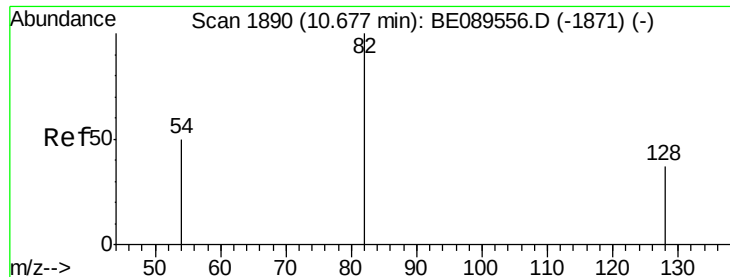
137 10.8 8.6 13.0

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: 8.54 ng

RT: 10.68 min Scan# 1891

Delta R.T. 0.00 min

Lab File: BE089563.D

Acq: 11 Feb 2015 00:18

Instrument :

BNA_E

ClientSampleId :

MDL-02-W

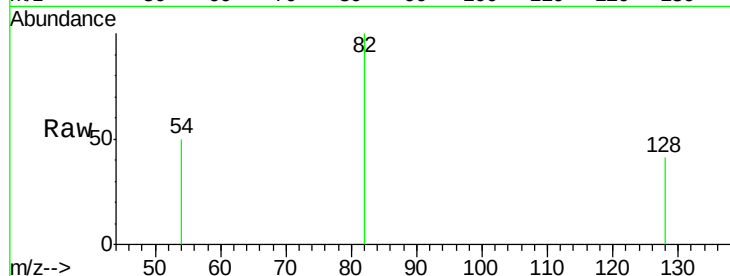
Tgt Ion: 82 Resp: 136575

Ion Ratio Lower Upper

82 100

128 40.7 30.4 45.6

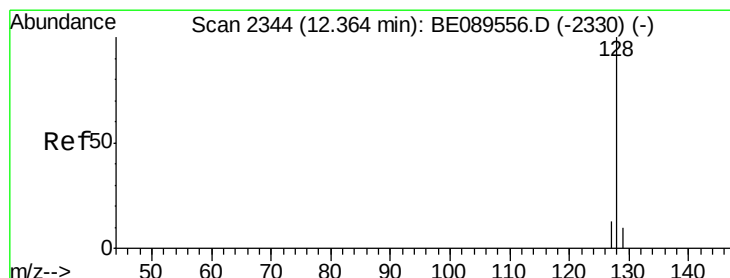
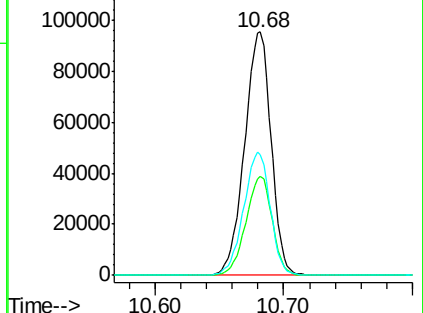
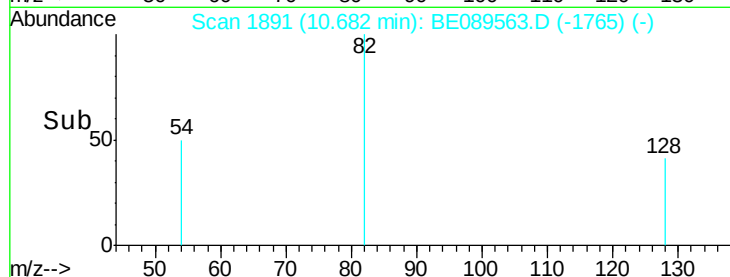
54 49.8 40.7 61.1



Abundance Ion 82.00 (81.70 to 82.70): BE089563.D (-1765) (-)

Ion 128.00 (127.70 to 128.70): BE089563.D (-1765) (-)

Ion 54.00 (53.70 to 54.70): BE089563.D (-1765) (-)



#4

Naphthalene

Concen: 0.07 ng

RT: 12.37 min Scan# 2343

Delta R.T. 0.00 min

Lab File: BE089563.D

Acq: 11 Feb 2015 00:18

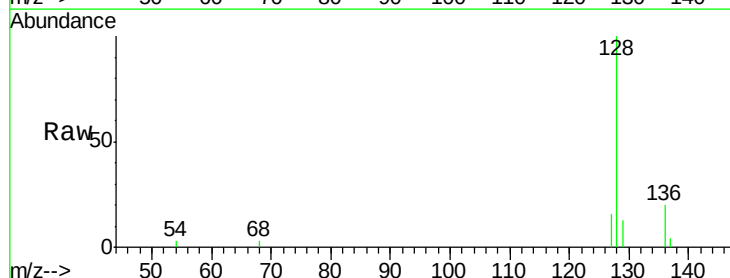
Tgt Ion: 128 Resp: 4045

Ion Ratio Lower Upper

128 100

129 13.0 8.5 12.7#

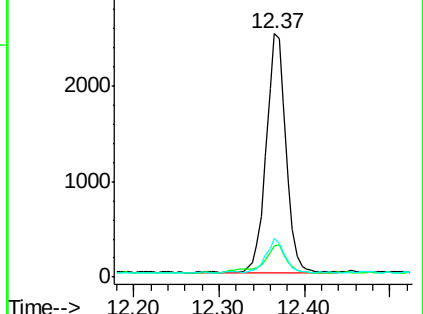
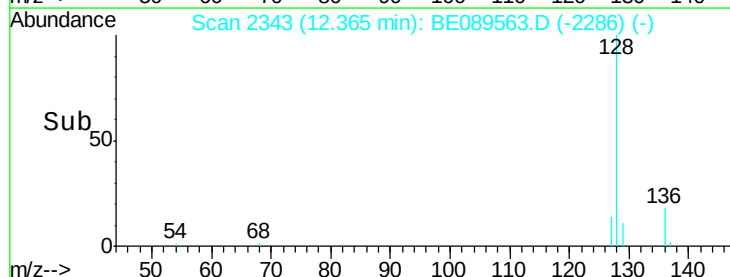
127 15.7 10.6 15.8

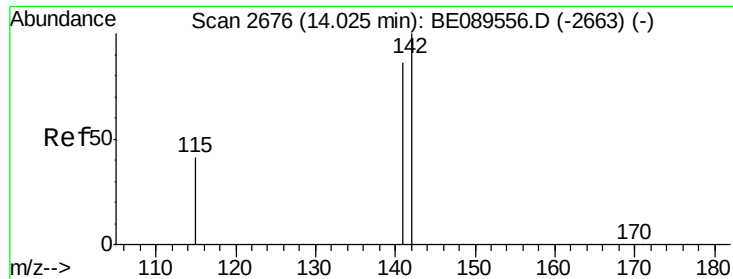


Abundance Ion 128.00 (127.70 to 128.70): BE089563.D (-2286) (-)

Ion 129.00 (128.70 to 129.70): BE089563.D (-2286) (-)

Ion 127.00 (126.70 to 127.70): BE089563.D (-2286) (-)





#5

2-Methylnaphthalene

Concen: 0.07 ng

RT: 14.02 min Scan# 2675

Delta R.T. -0.00 min

Lab File: BE089563.D

Acq: 11 Feb 2015 00:18

Instrument :

BNA_E

ClientSampleId :

MDL-02-W

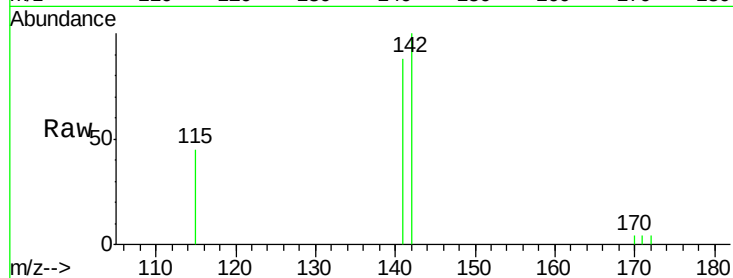
Tgt Ion:142 Resp: 2079

Ion Ratio Lower Upper

142 100

141 87.9 68.6 102.8

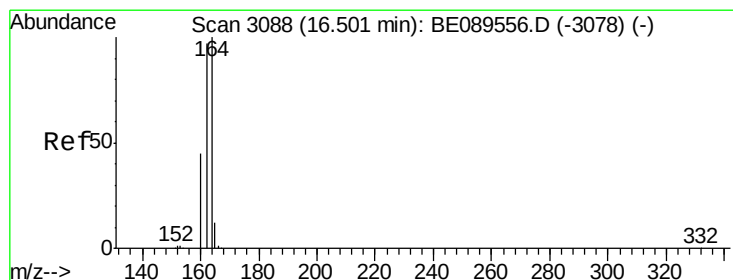
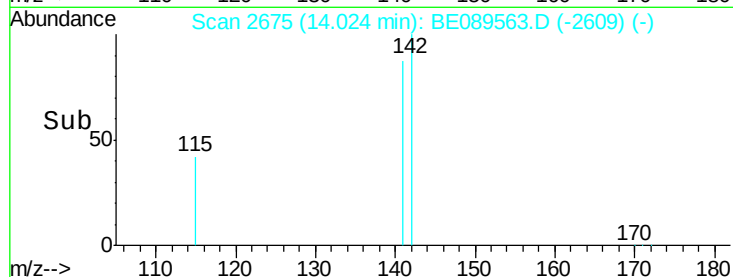
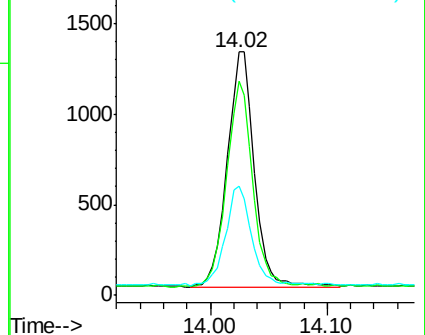
115 44.8 33.0 49.6



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: BE089563.D

Acq: 11 Feb 2015 00:18

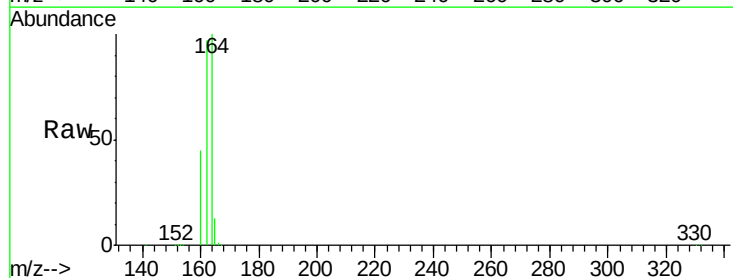
Tgt Ion:164 Resp: 115859

Ion Ratio Lower Upper

164 100

162 97.0 77.8 116.6

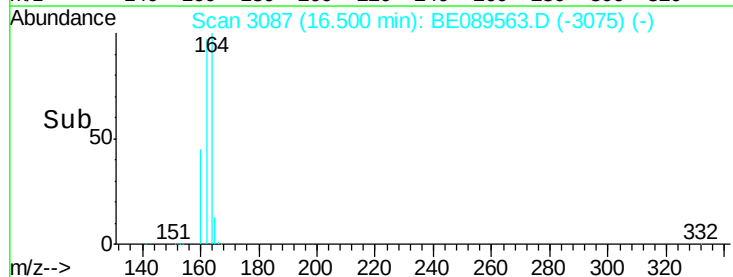
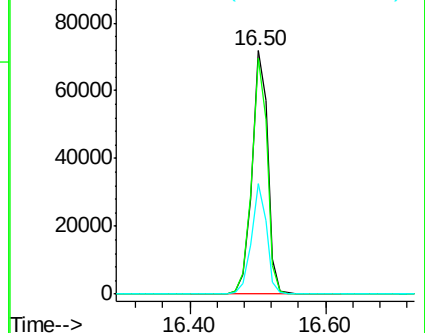
160 45.2 36.2 54.2

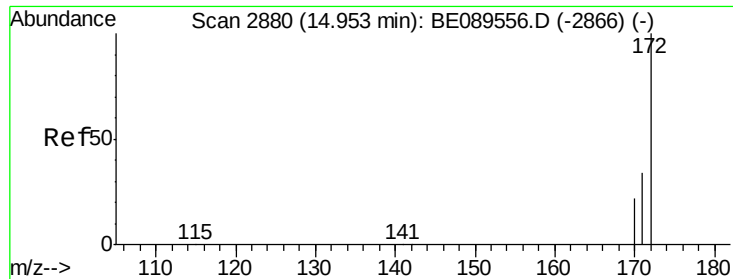


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#7

2-Fluorobiphenyl

Concen: 6.63 ng

RT: 14.96 min Scan# 2880

Delta R.T. 0.00 min

Lab File: BE089563.D

Acq: 11 Feb 2015 00:18

Instrument :

BNA_E

ClientSampleId :

MDL-02-W

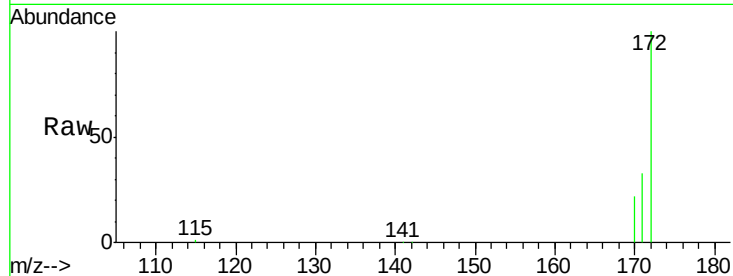
Tgt Ion:172 Resp: 208099

Ion Ratio Lower Upper

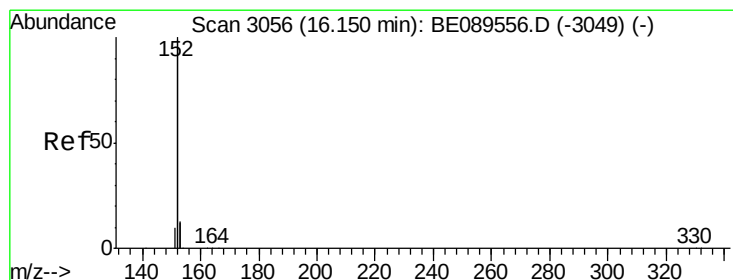
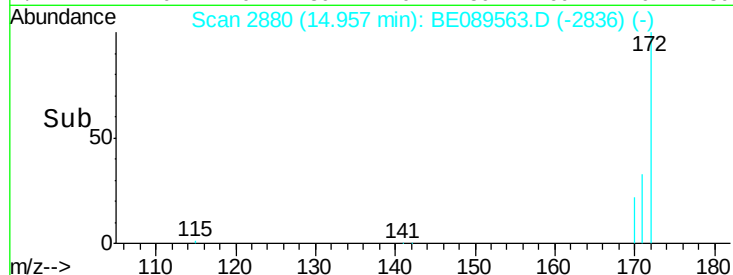
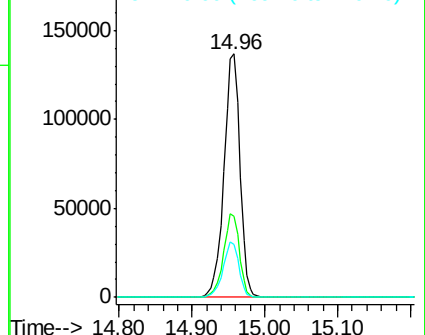
172 100

171 33.4 27.4 41.0

170 21.8 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: BE089563.D

Acq: 11 Feb 2015 00:18

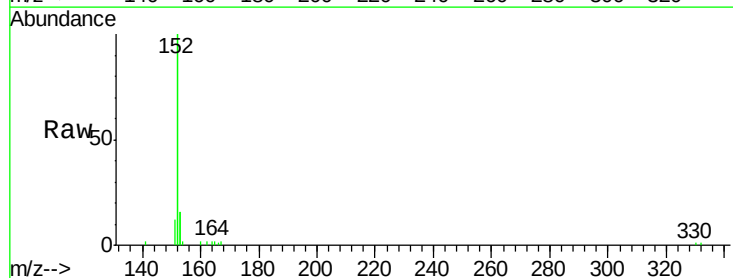
Tgt Ion:152 Resp: 10511

Ion Ratio Lower Upper

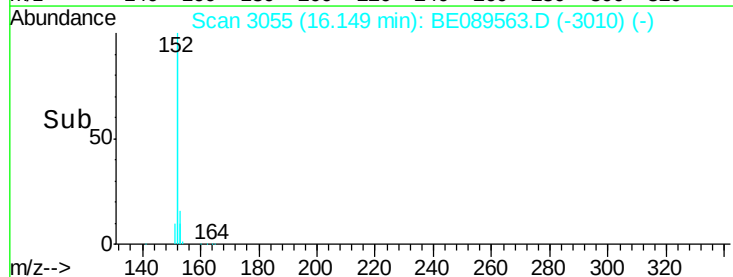
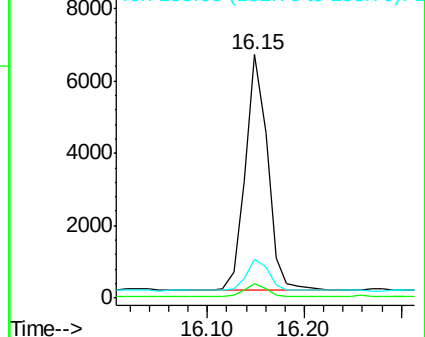
152 100

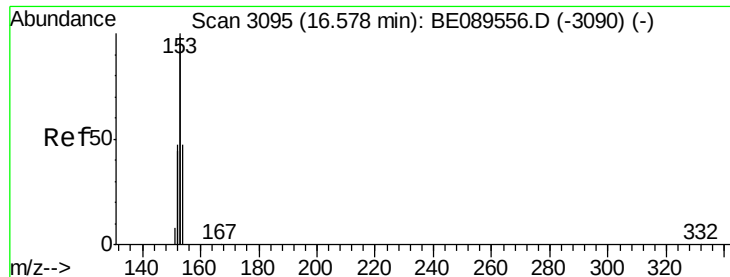
151 5.3 3.9 5.9

153 13.6 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: BE089563.D

Acq: 11 Feb 2015 00:18

Instrument :

BNA_E

ClientSampleId :

MDL-02-W

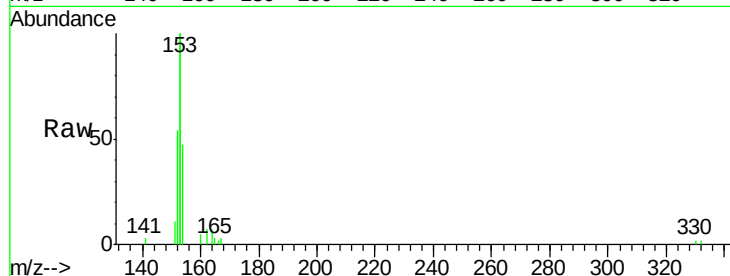
Tgt Ion:154 Resp: 1852

Ion Ratio Lower Upper

154 100

153 419.3 349.0 523.4

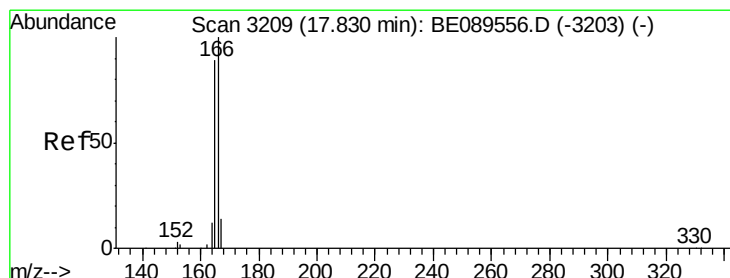
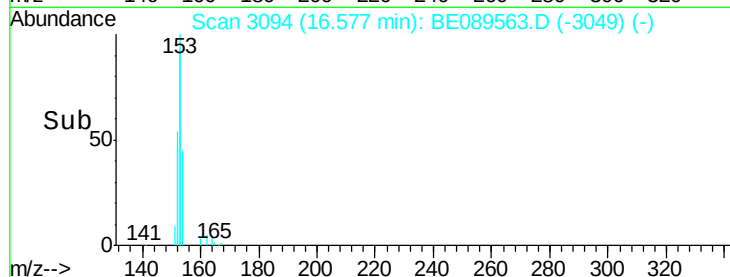
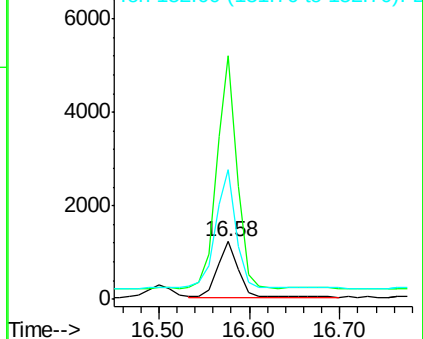
152 229.8 173.0 259.4



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: BE089563.D

Acq: 11 Feb 2015 00:18

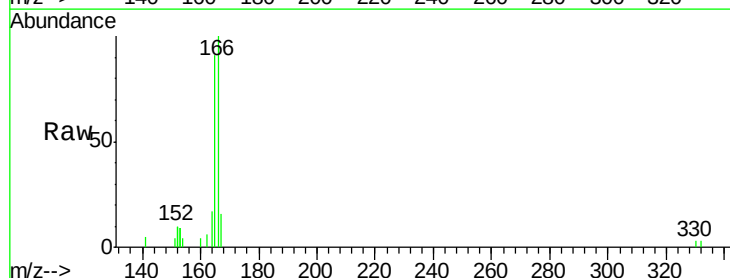
Tgt Ion:166 Resp: 1994

Ion Ratio Lower Upper

166 100

165 92.9 75.1 112.7

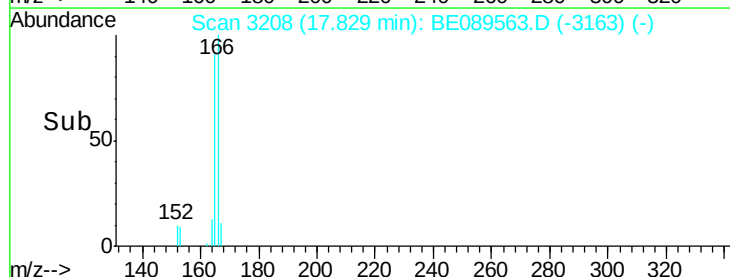
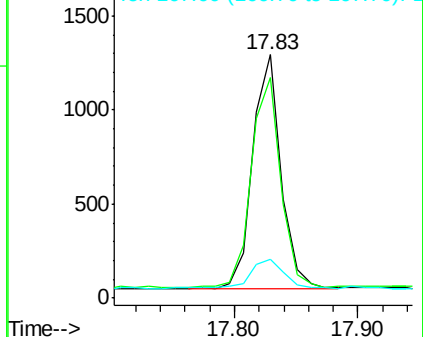
167 15.6 10.6 16.0

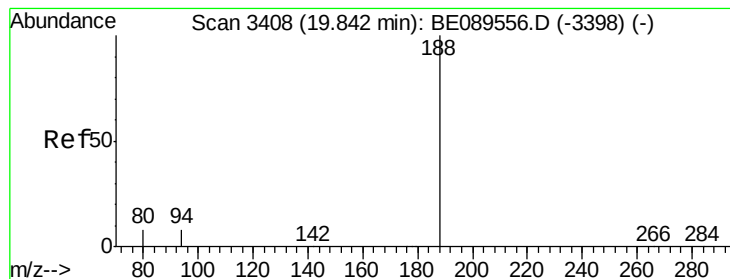


Abundance Ion 166.00 (165.70 to 166.70): E

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: BE089563.D

Acq: 11 Feb 2015 00:18

Instrument :

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ClientSampleId :

MDL-02-W

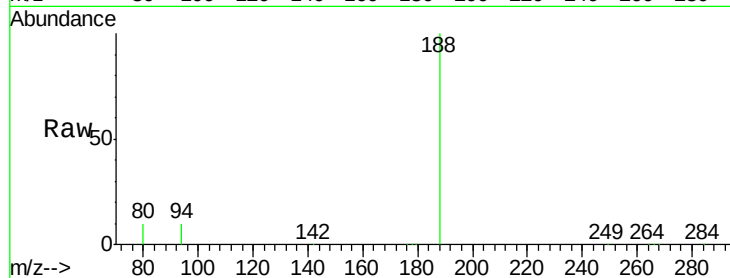
Tgt Ion:188 Resp: 205299

Ion Ratio Lower Upper

188 100

94 9.6 6.2 9.2#

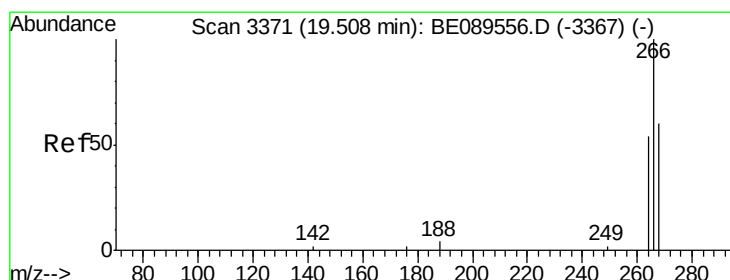
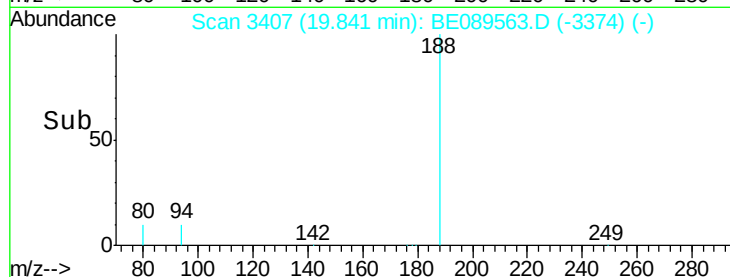
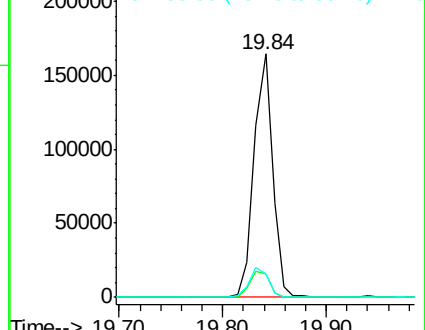
80 9.7 6.4 9.6#



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: 19.52 min Scan# 3371

Delta R.T. 0.01 min

Lab File: BE089563.D

Acq: 11 Feb 2015 00:18

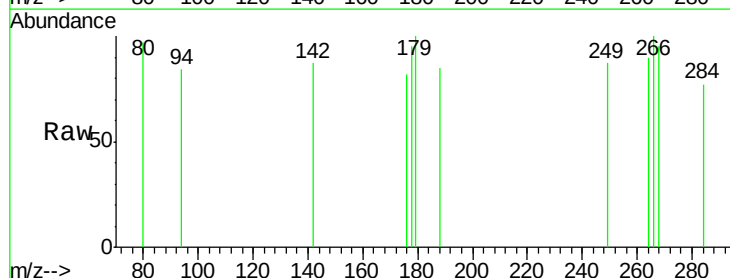
Tgt Ion:266 Resp: 45

Ion Ratio Lower Upper

266 100

268 95.1 57.9 86.9#

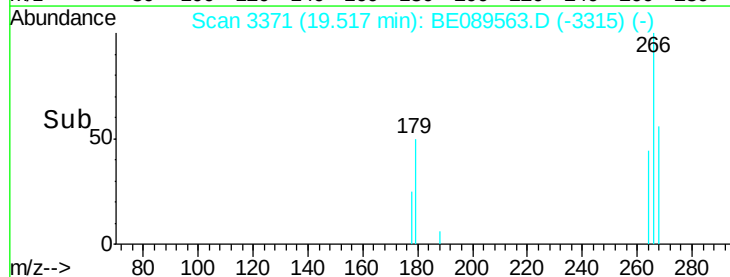
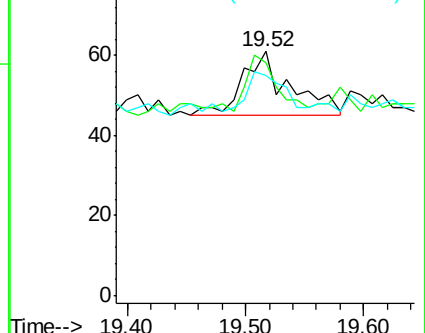
264 90.2 54.6 81.8#

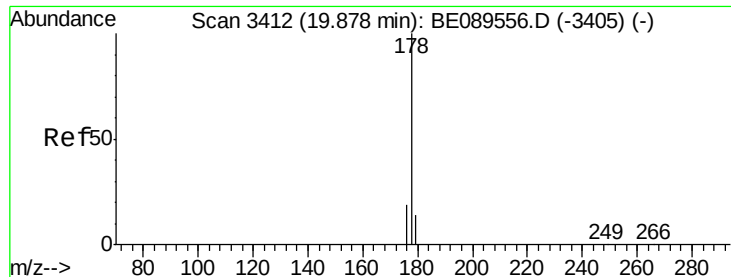


Abundance Ion 265.70 (265.40 to 266.40): E

Ion 268.00 (267.70 to 268.70): E

Ion 264.00 (263.70 to 264.70): E





#13

Phenanthrene

Concen: 0.07 ng

RT: 19.88 min Scan# 3411

Delta R.T. -0.00 min

Lab File: BE089563.D

Acq: 11 Feb 2015 00:18

Instrument :

BNA_E

ClientSampleId :

MDL-02-W

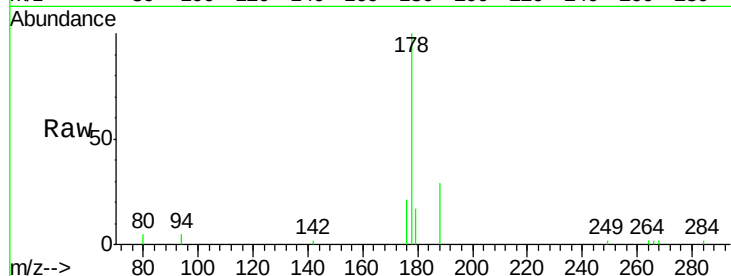
Tgt Ion:178 Resp: 3559

Ion Ratio Lower Upper

178 100

176 18.3 15.1 22.7

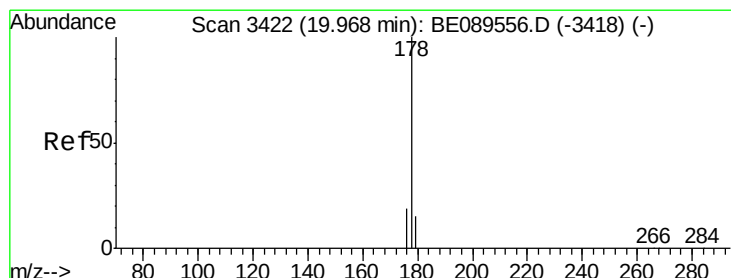
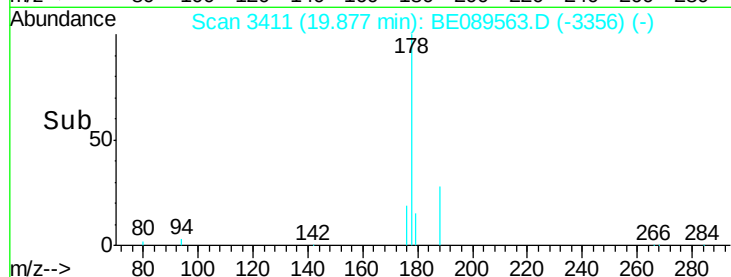
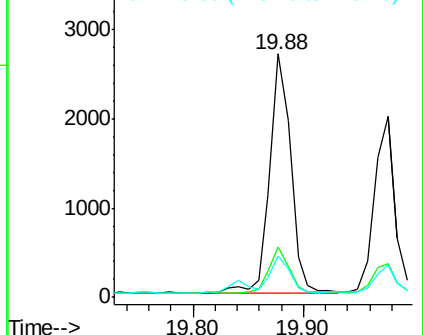
179 13.8 12.1 18.1



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: BE089563.D

Acq: 11 Feb 2015 00:18

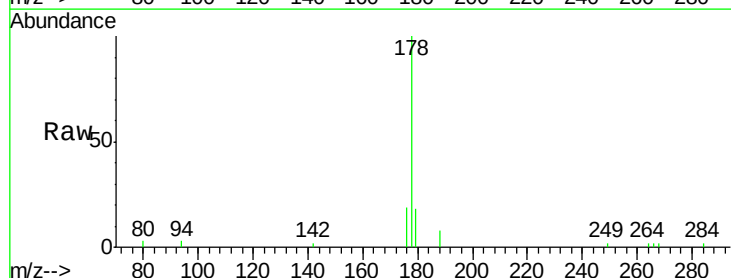
Tgt Ion:178 Resp: 2593

Ion Ratio Lower Upper

178 100

176 18.6 14.6 21.8

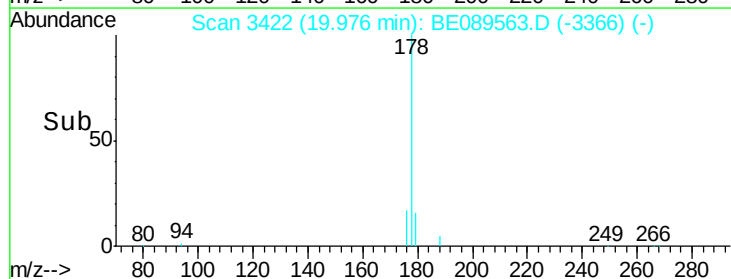
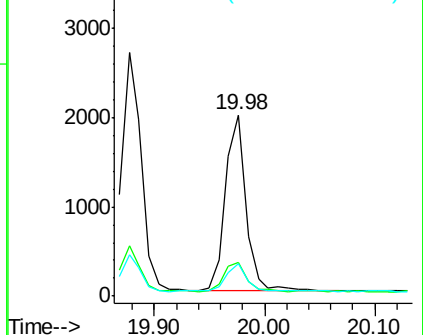
179 16.2 12.7 19.1

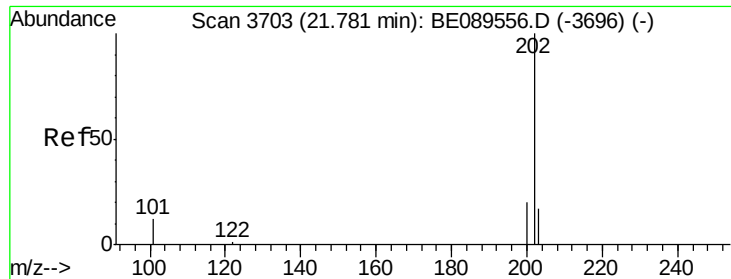


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

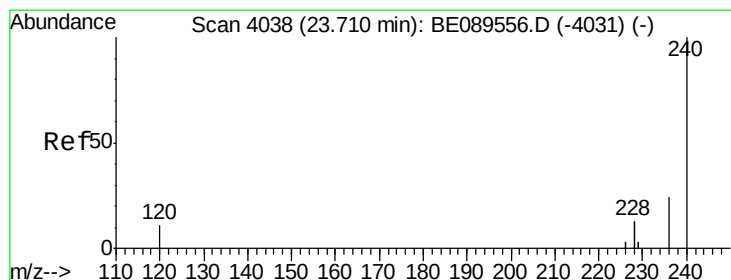
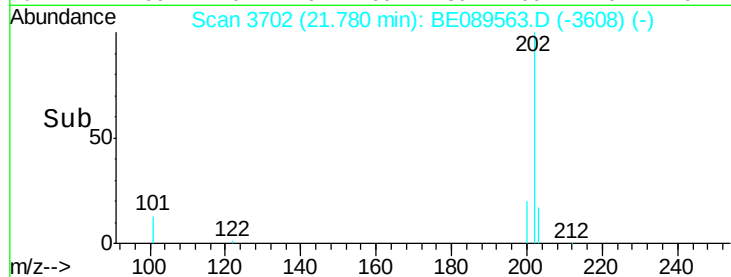
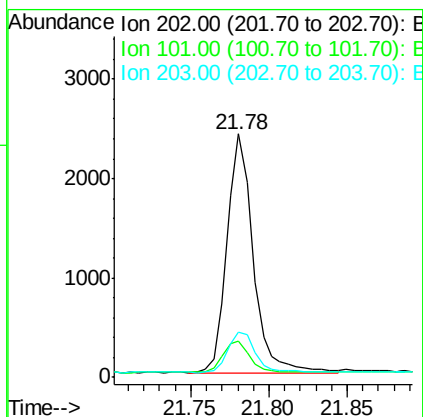
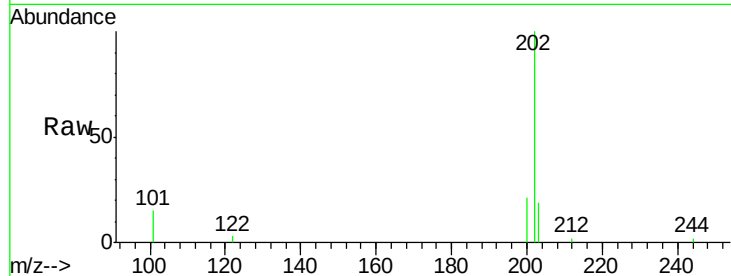




#15
 Fluoranthene
 Concen: 0.06 ng
 RT: 21.78 min Scan# 3702
 Delta R.T. -0.00 min
 Lab File: BE089563.D
 Acq: 11 Feb 2015 00:18

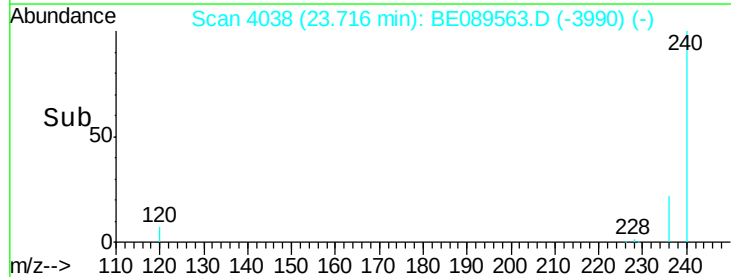
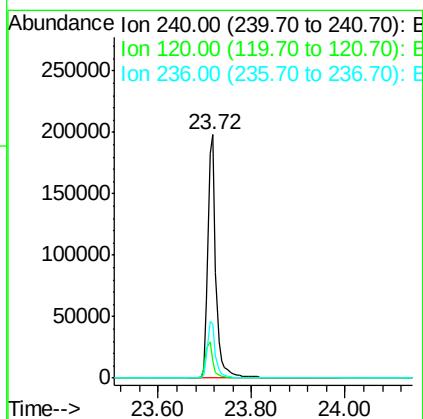
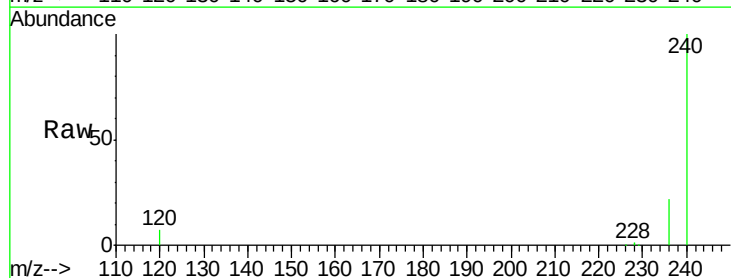
Instrument :
 BNA_E
 ClientSampleId :
 MDL-02-W

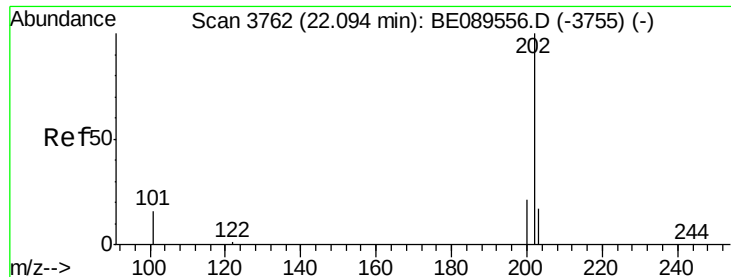
Tgt Ion: 202 Resp: 2809
 Ion Ratio Lower Upper
 202 100
 101 13.5 10.4 15.6
 203 19.1 13.6 20.4



#16
 Chrysene-d12
 Concen: 5.00 ng
 RT: 23.72 min Scan# 4038
 Delta R.T. 0.01 min
 Lab File: BE089563.D
 Acq: 11 Feb 2015 00:18

Tgt Ion: 240 Resp: 238427
 Ion Ratio Lower Upper
 240 100
 120 6.9 9.3 13.9#
 236 22.4 19.3 28.9

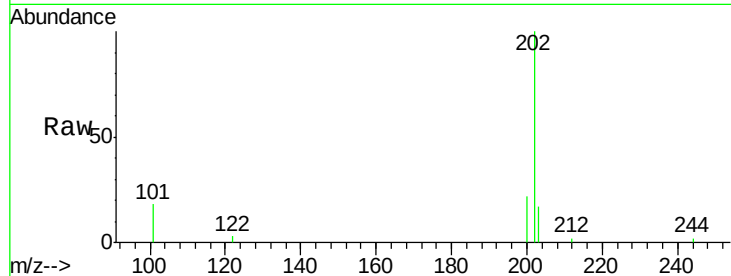




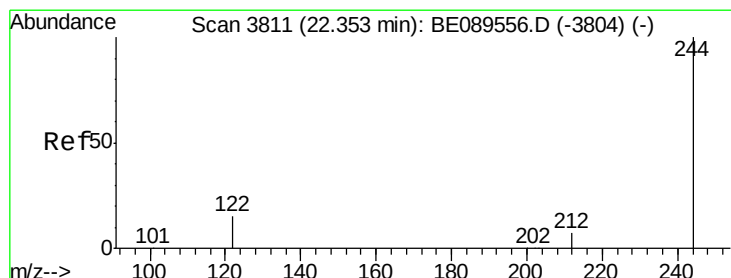
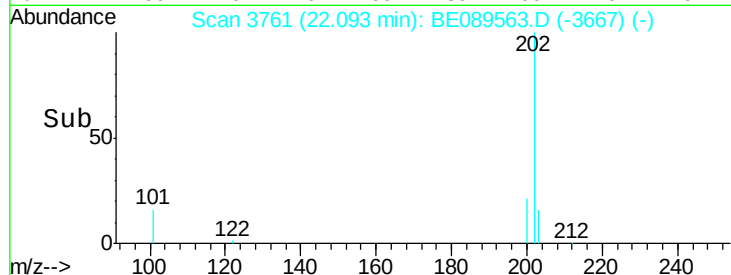
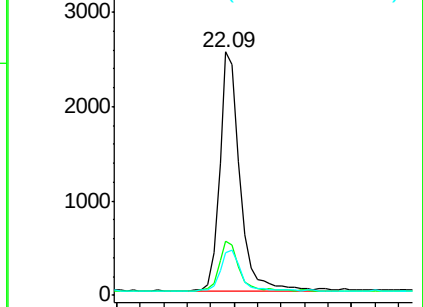
#17
 Pyrene
 Concen: 0.06 ng
 RT: 22.09 min Scan# 3761
 Delta R.T. -0.00 min
 Lab File: BE089563.D
 Acq: 11 Feb 2015 00:18

Instrument :
 BNA_E
 ClientSampleId :
 MDL-02-W

Tgt Ion: 202 Resp: 3064
 Ion Ratio Lower Upper
 202 100
 200 20.3 16.6 24.8
 203 17.3 14.2 21.2

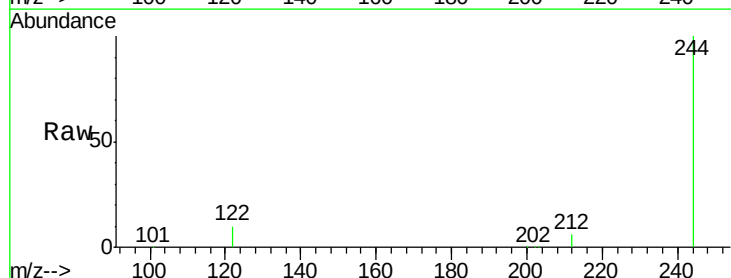


Abundance Ion 202.00 (201.70 to 202.70): E
 Ion 200.00 (199.70 to 200.70): E
 Ion 203.00 (202.70 to 203.70): E

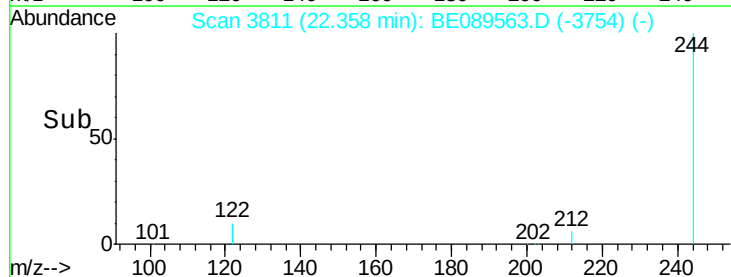
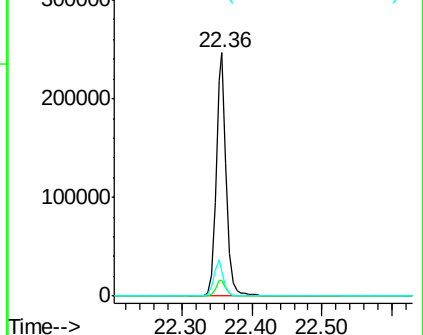


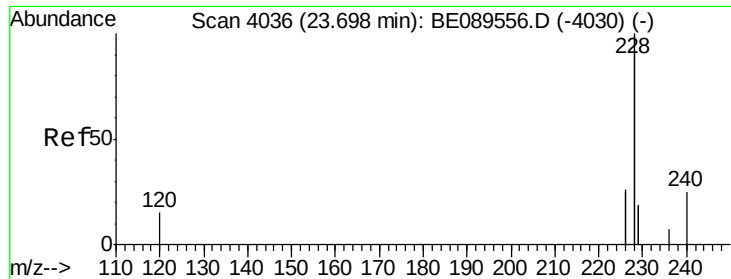
#18
 Terphenyl-d14
 Concen: 8.55 ng
 RT: 22.36 min Scan# 3811
 Delta R.T. 0.00 min
 Lab File: BE089563.D
 Acq: 11 Feb 2015 00:18

Tgt Ion: 244 Resp: 253850
 Ion Ratio Lower Upper
 244 100
 212 6.5 5.9 8.9
 122 10.2 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: 0.07 ng

RT: 23.70 min Scan# 4036

Delta R.T. 0.01 min

Lab File: BE089563.D

Acq: 11 Feb 2015 00:18

Instrument :

BNA_E

ClientSampled :

MDL-02-W

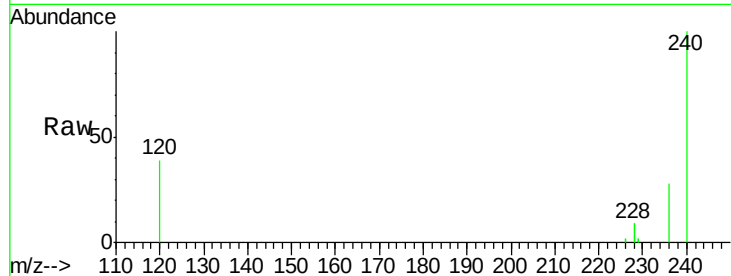
Tgt Ion:228 Resp: 13446

Ion Ratio Lower Upper

228 100

226 22.7 21.0 31.4

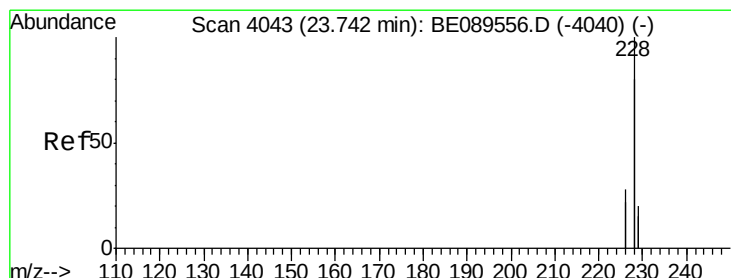
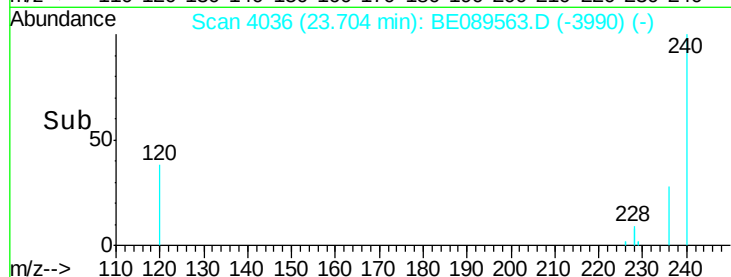
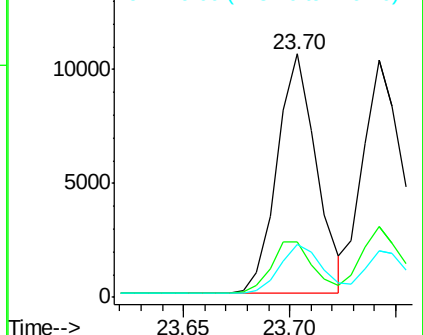
229 21.6 15.2 22.8



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: 0.07 ng

RT: 23.74 min Scan# 4042

Delta R.T. -0.00 min

Lab File: BE089563.D

Acq: 11 Feb 2015 00:18

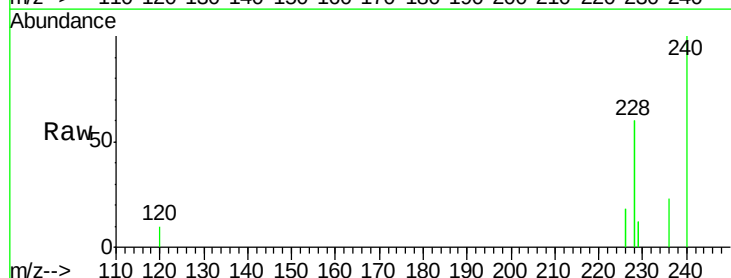
Tgt Ion:228 Resp: 16638

Ion Ratio Lower Upper

228 100

226 29.8 22.6 34.0

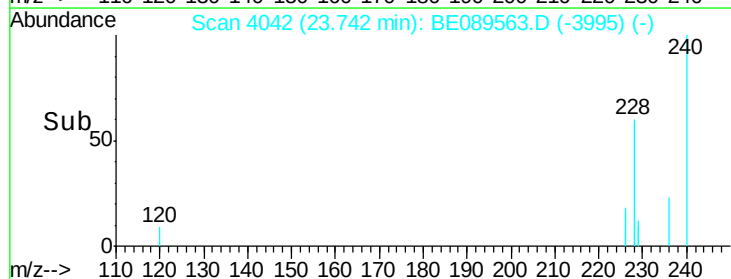
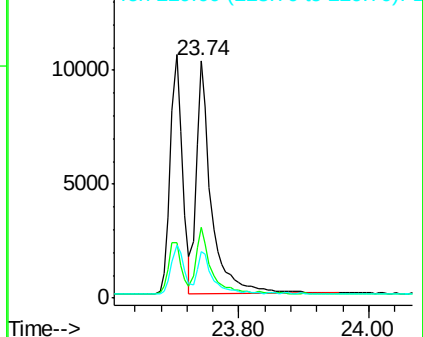
229 19.4 15.6 23.4

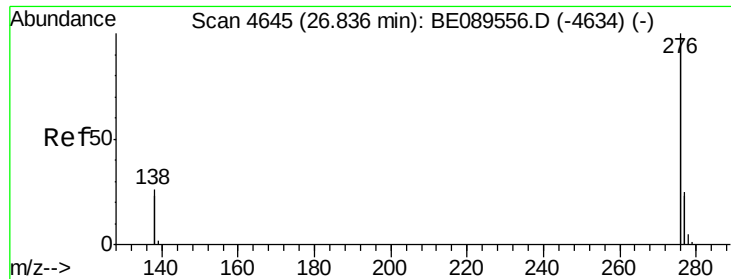


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

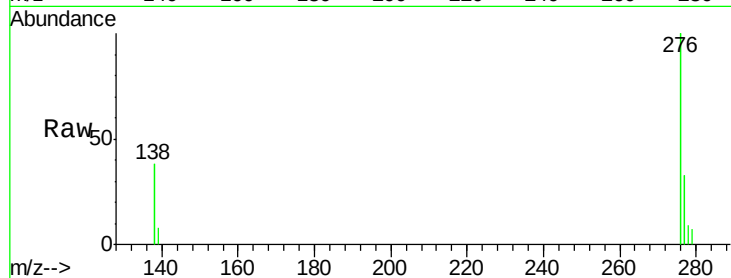




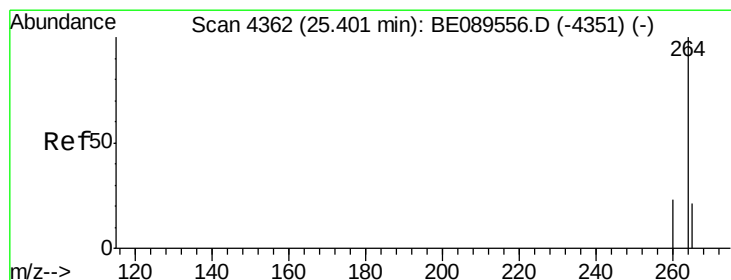
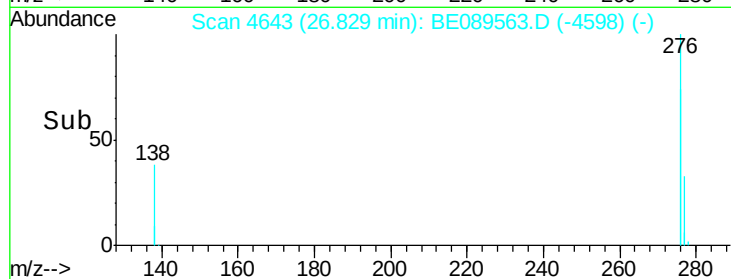
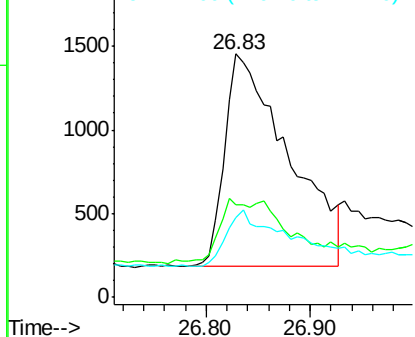
#21
 Indeno(1,2,3-cd)pyrene
 Concen: 0.06 ng
 RT: 26.83 min Scan# 4643
 Delta R.T. -0.01 min
 Lab File: BE089563.D
 Acq: 11 Feb 2015 00:18

Instrument :
 BNA_E
 ClientSampleId :
 MDL-02-W

Tgt Ion: 276 Resp: 5410
 Ion Ratio Lower Upper
 276 100
 138 14.4 20.2 30.4#
 277 29.0 19.6 29.4

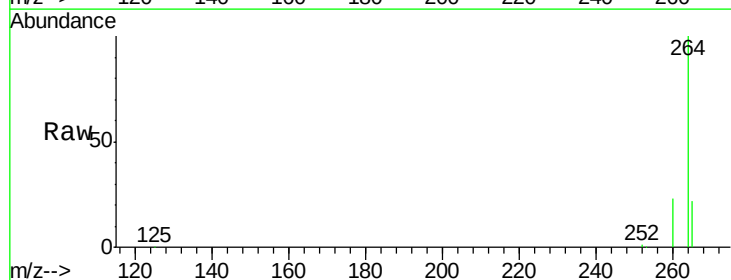


Abundance Ion 276.00 (275.70 to 276.70): E
 Ion 138.00 (137.70 to 138.70): E
 Ion 277.00 (276.70 to 277.70): E

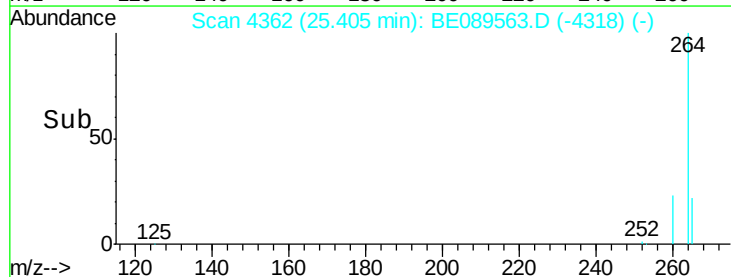
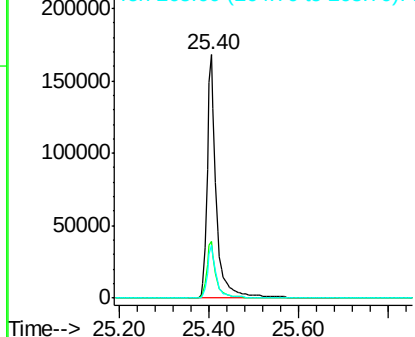


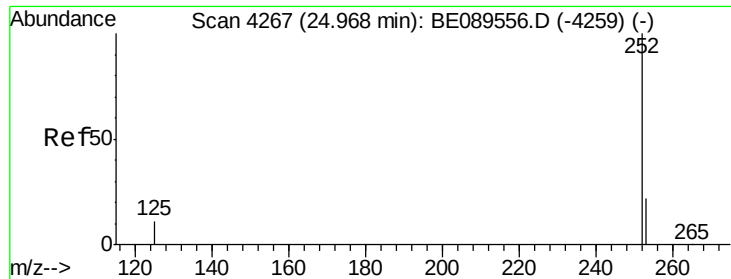
#22
 Perylene-d12
 Concen: 5.00 ng
 RT: 25.40 min Scan# 4362
 Delta R.T. 0.00 min
 Lab File: BE089563.D
 Acq: 11 Feb 2015 00:18

Tgt Ion: 264 Resp: 237733
 Ion Ratio Lower Upper
 264 100
 260 23.3 18.7 28.1
 265 21.6 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: 0.26 ng

RT: 24.97 min Scan# 4266

Delta R.T. -0.00 min

Lab File: BE089563.D

Acq: 11 Feb 2015 00:18

Instrument :

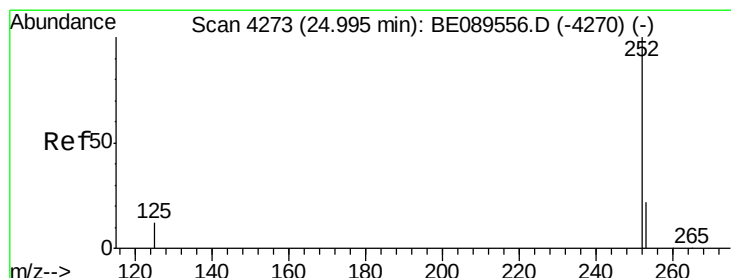
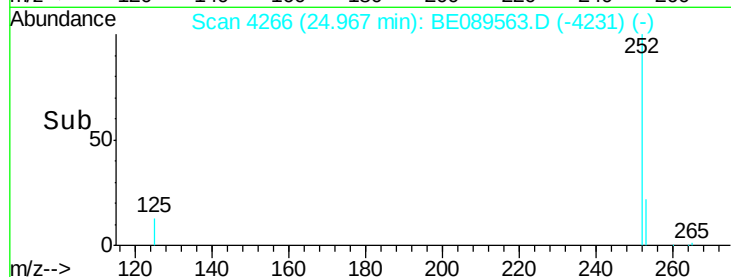
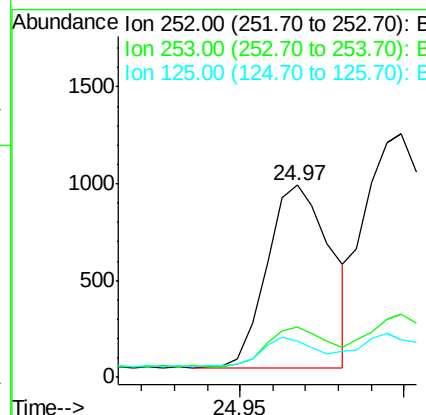
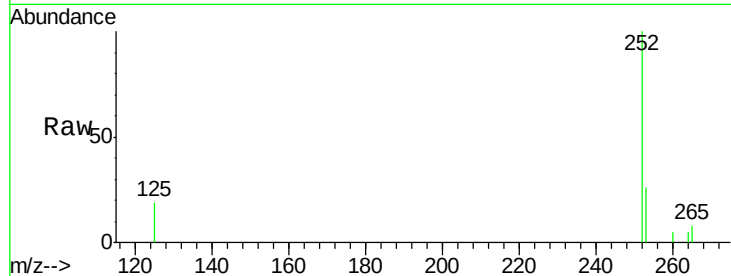
BNA_E

ClientSampleId :

MDL-02-W

Tgt Ion:252 Resp: 1275

Ion	Ratio	Lower	Upper
252	100		
253	26.2	17.8	26.8
125	18.7	9.3	13.9#



#24

Benzo(k)fluoranthene

Concen: 0.04 ng

RT: 25.00 min Scan# 4273

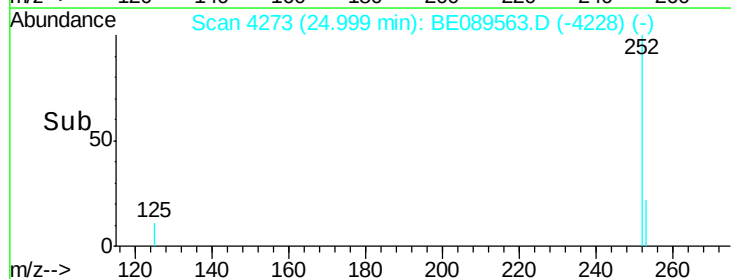
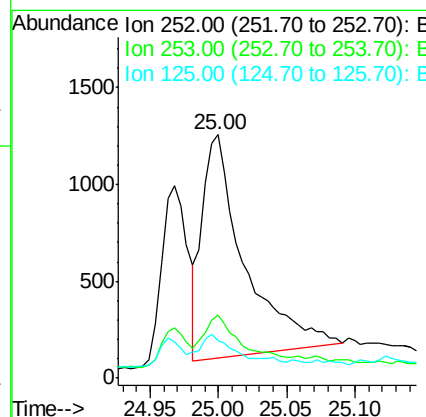
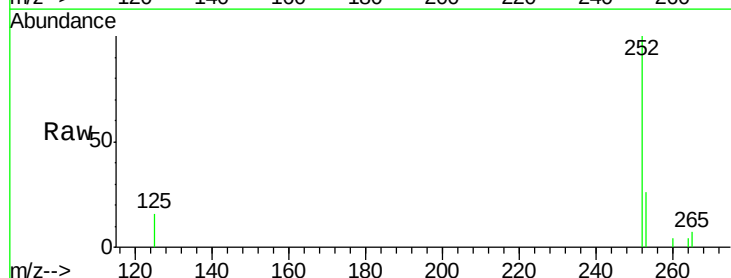
Delta R.T. 0.00 min

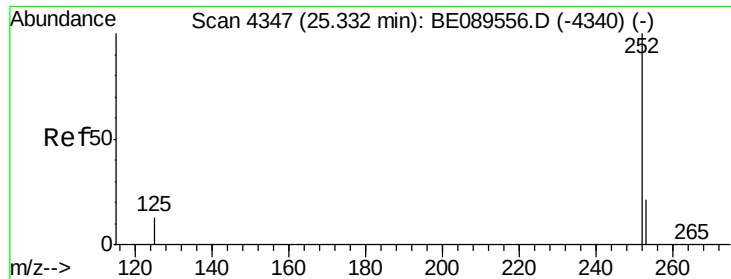
Lab File: BE089563.D

Acq: 11 Feb 2015 00:18

Tgt Ion:252 Resp: 2486

Ion	Ratio	Lower	Upper
252	100		
253	26.1	17.5	26.3
125	15.7	9.6	14.4#

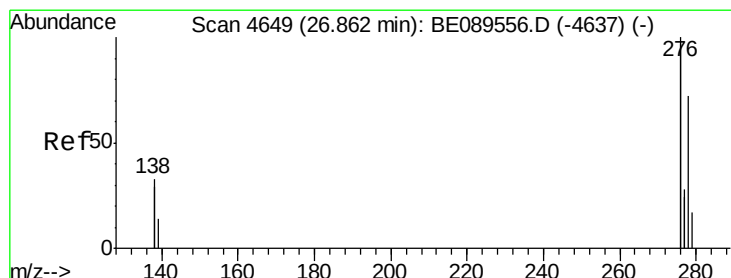
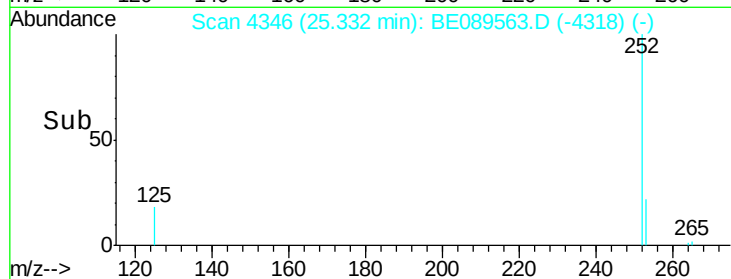
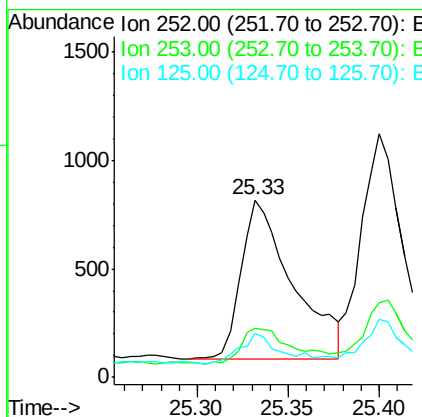
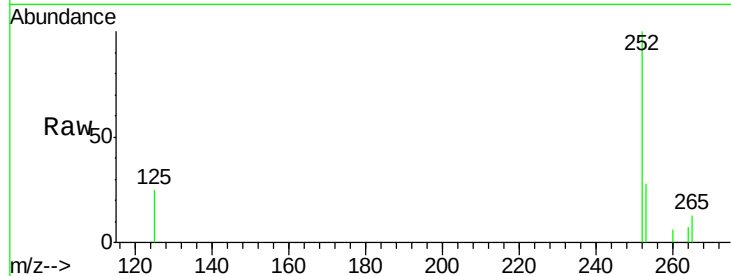




#25
Benzo(a)pyrene
Concen: 0.22 ng
RT: 25.33 min Scan# 4346
Delta R.T. -0.00 min
Lab File: BE089563.D
Acq: 11 Feb 2015 00:18

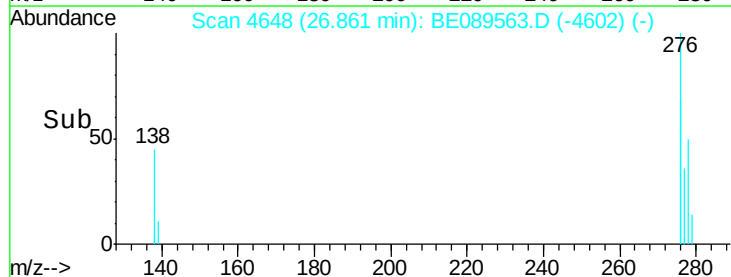
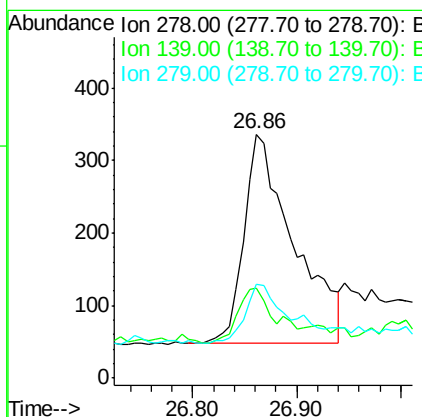
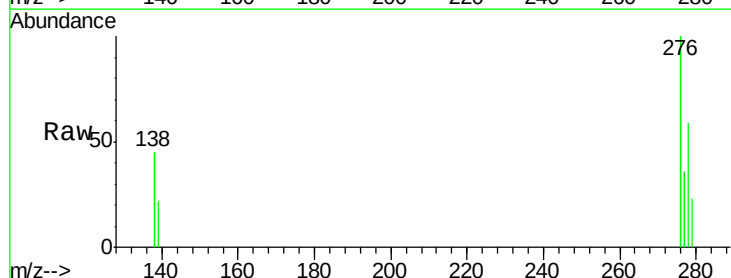
Instrument :
BNA_E
ClientSampleId :
MDL-02-W

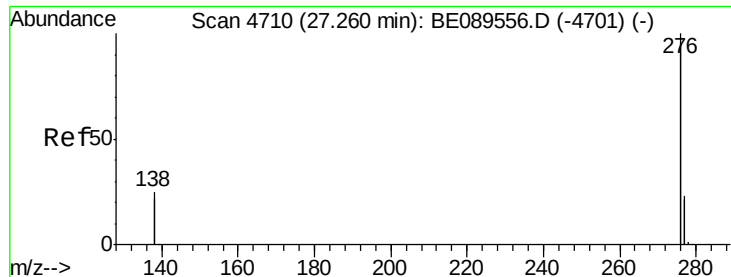
Tgt Ion: 252 Resp: 1455
Ion Ratio Lower Upper
252 100
253 27.8 17.4 26.0#
125 24.5 11.1 16.7#



#26
Dibenzo(a,h)anthracene
Concen: 0.14 ng
RT: 26.86 min Scan# 4648
Delta R.T. 0.00 min
Lab File: BE089563.D
Acq: 11 Feb 2015 00:18

Tgt Ion: 278 Resp: 960
Ion Ratio Lower Upper
278 100
139 36.9 16.1 24.1#
279 38.7 19.6 29.4#





#27

Benzo(g,h,i)perylene

Concen: 0.04 ng

RT: 27.26 min Scan# 4709

Delta R.T. -0.00 min

Lab File: BE089563.D

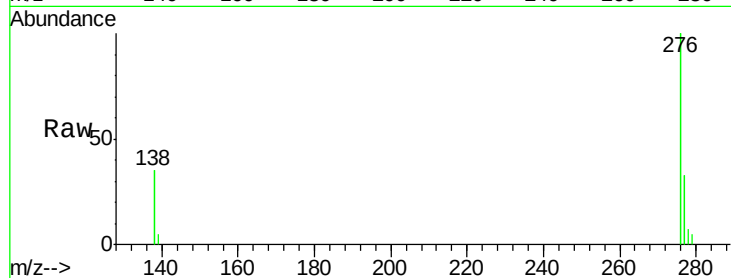
Acq: 11 Feb 2015 00:18

Instrument :

BNA_E

ClientSampleId :

MDL-02-W



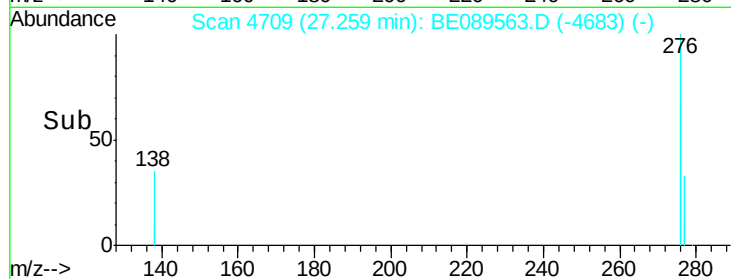
Tgt Ion: 276 Resp: 7957

Ion Ratio Lower Upper

276 100

277 33.0 18.7 28.1#

138 34.7 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

