

Data Path : Z:\HPCHEM1\BNA_E\Data\BE021815\
 Data File : BE089622.D
 Acq On : 18 Feb 2015 17:34
 Operator : TP/IZ
 Sample : MDL-02-W
 Misc : MDL-WATER-0.1/0.2
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 MDL-02-W

Quant Time: Feb 19 04:53:35 2015
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIMPAH-BE021815.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Feb 18 13:01:39 2015
 Response via : Initial Calibration

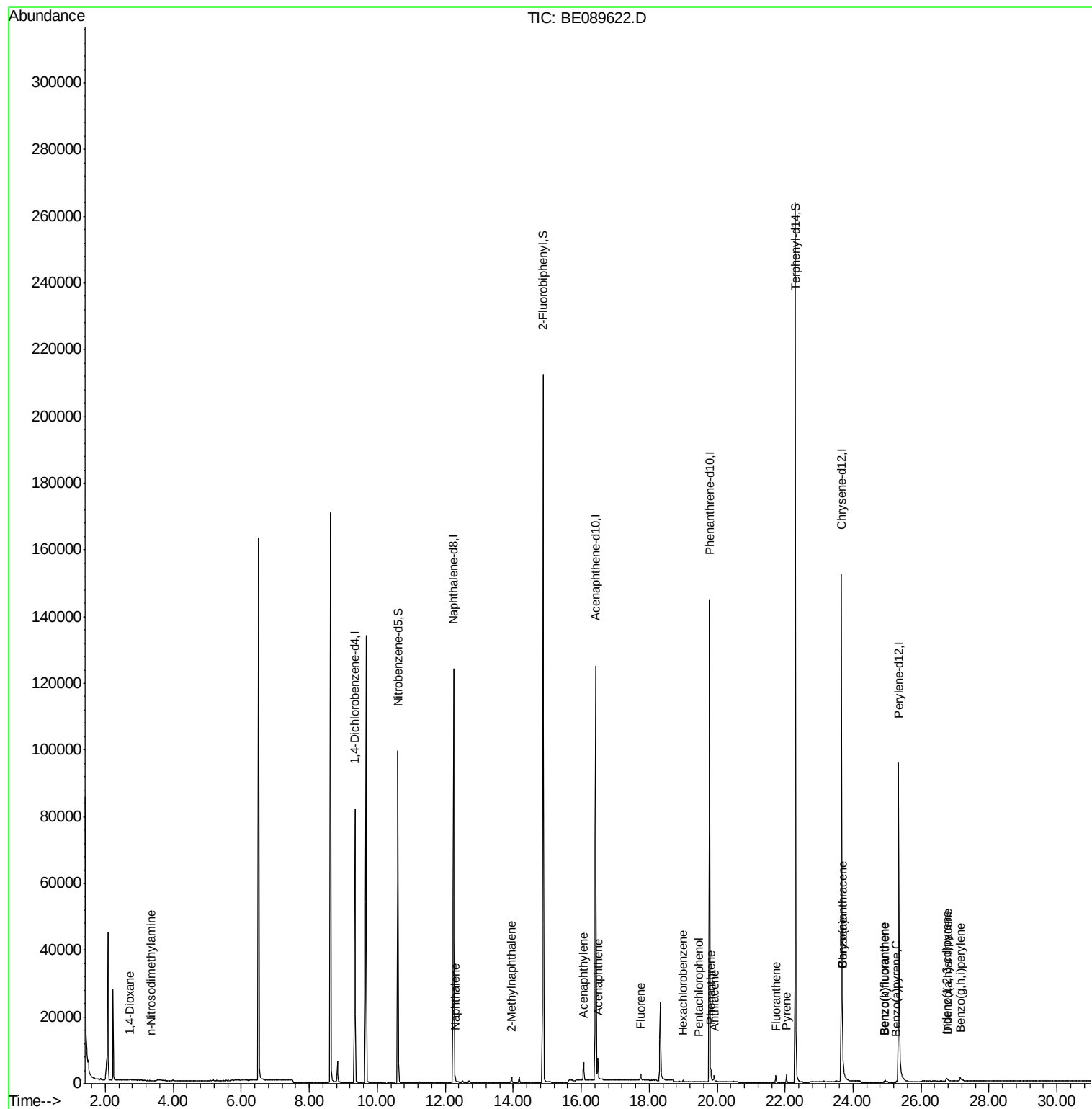
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.34	152	37901	5.00	ng	0.00
4) Naphthalene-d8	12.24	136	150547	5.00	ng	0.00
8) Acenaphthene-d10	16.42	164	74782	5.00	ng	0.00
13) Phenanthrene-d10	19.77	188	144880	5.00	ng	0.00
19) Chrysene-d12	23.66	240	131810	5.00	ng	0.00
25) Perylene-d12	25.34	264	106543	5.00	ng	0.00
System Monitoring Compounds						
5) Nitrobenzene-d5	10.61	82	69972	10.69	ng	0.00
9) 2-Fluorobiphenyl	14.88	172	194307	9.70	ng	0.00
21) Terphenyl-d14	22.30	244	231980	12.24	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.73	88	285	0.06	ng	# 83
3) n-Nitrosodimethylamine	3.35	42	9	0.00	ng	# 1
6) Naphthalene	12.29	128	2498	0.07	ng	# 93
7) 2-Methylnaphthalene	13.95	142	1374	0.07	ng	99
10) Acenaphthylene	16.07	152	7309	0.06	ng	99
11) Acenaphthene	16.50	154	1385	0.07	ng	90
12) Fluorene	17.74	166	1536	0.07	ng	97
14) Hexachlorobenzene	19.00	284	478	0.08	ng	# 89
15) Pentachlorophenol	19.45	266	46	0.02	ng	# 72
16) Phenanthrene	19.82	178	2645	0.07	ng	99
17) Anthracene	19.91	178	1812	0.06	ng	99
18) Fluoranthene	21.72	202	1920	0.06	ng	99
20) Pyrene	22.04	202	2066	0.06	ng	99
22) Benzo(a)anthracene	23.69	228	10980	0.09	ng	93
23) Chrysene	23.69	228	10980	0.08	ng	96
24) Indeno(1,2,3-cd)pyrene	26.74	276	2530	0.20	ng	91
26) Benzo(b)fluoranthene	24.91	252	584	0.29	ng	# 80
27) Benzo(k)fluoranthene	24.94	252	1144	0.04	ng	# 80
28) Benzo(a)pyrene	25.27	252	591	0.27	ng	# 78
29) Dibenzo(a,h)anthracene	26.77	278	435	0.25	ng	# 59
30) Benzo(g,h,i)perylene	27.16	276	3372	0.17	ng	# 71

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

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QLast Update : Wed Feb 18 13:01:39 2015
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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 9.34 min Scan# 1300

Delta R.T. -0.00 min

Lab File: BE089622.D

Acq: 18 Feb 2015 17:34

Instrument :

BNA_E

ClientSampleId :

MDL-02-W

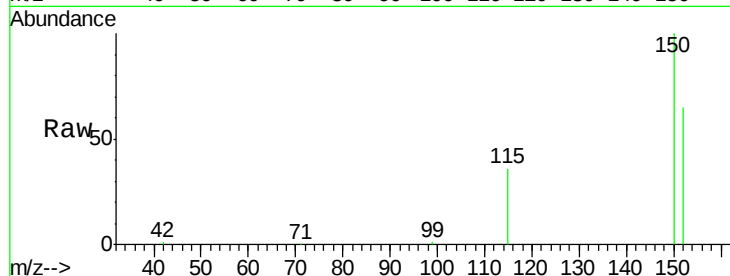
Tgt Ion: 152 Resp: 37901

Ion Ratio Lower Upper

152 100

150 153.2 122.4 183.6

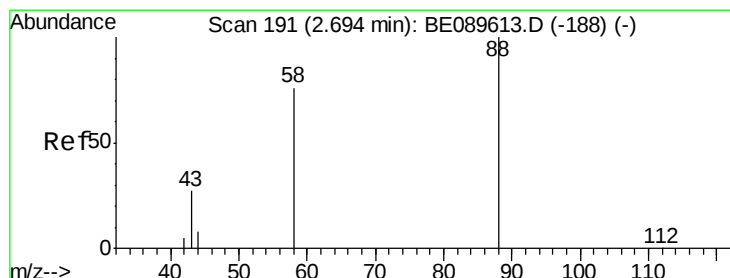
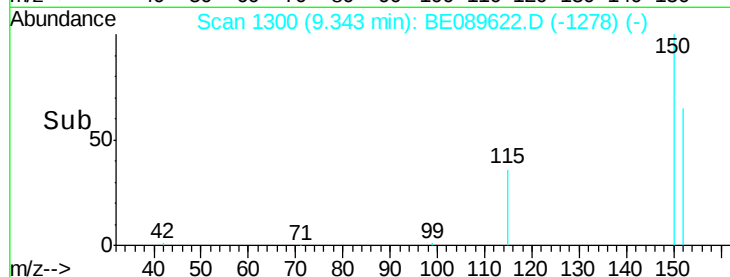
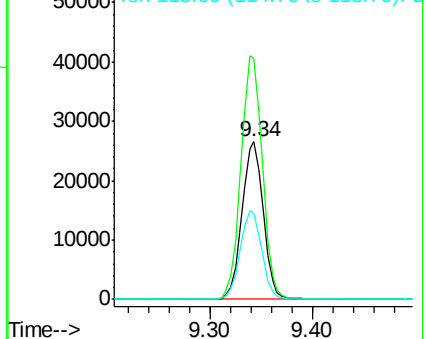
115 54.7 44.2 66.2



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

1,4-Dioxane

Concen: 0.06 ng

RT: 2.73 min Scan# 197

Delta R.T. 0.04 min

Lab File: BE089622.D

Acq: 18 Feb 2015 17:34

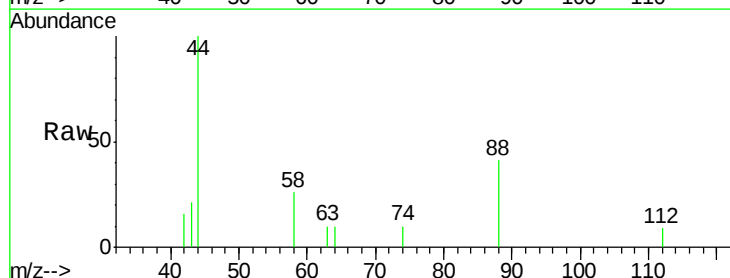
Tgt Ion: 88 Resp: 285

Ion Ratio Lower Upper

88 100

58 71.2 54.6 81.8

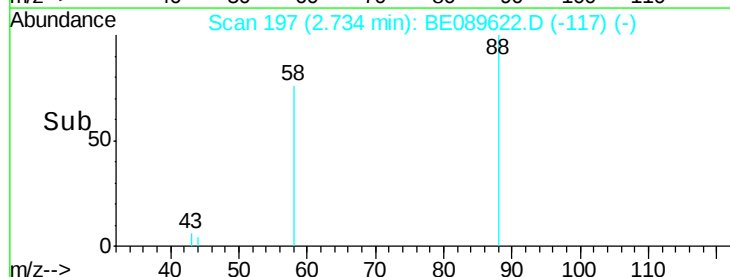
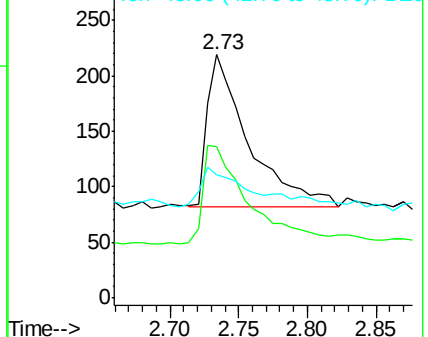
43 0.0 20.6 30.8#

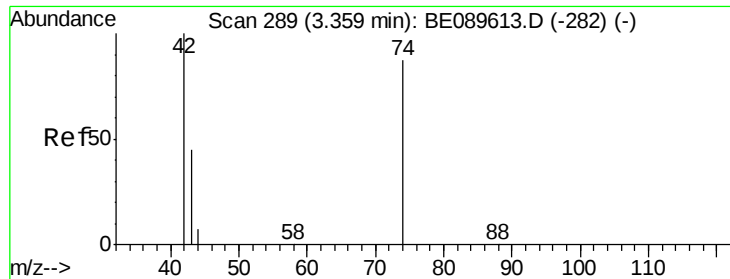


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0



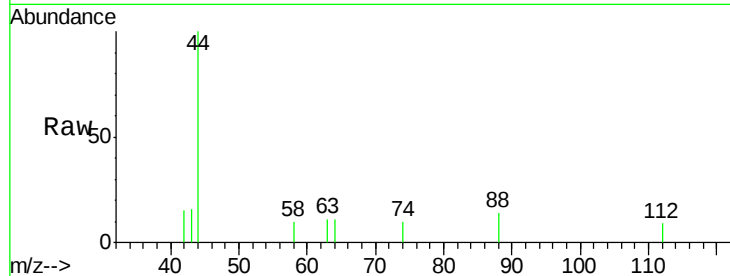


#3

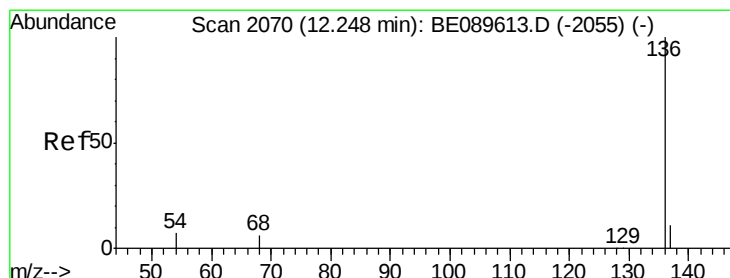
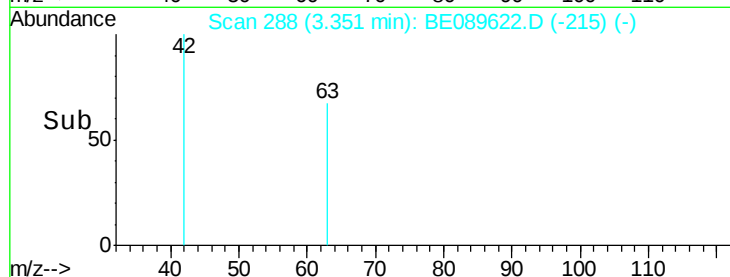
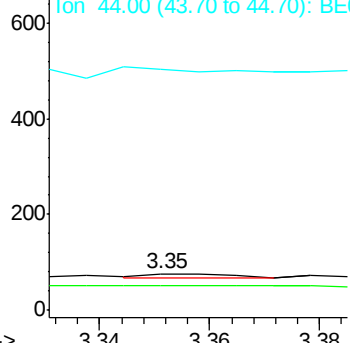
n-Nitrosodimethylamine
Concen: 0.00 ng
RT: 3.35 min Scan# 288
Delta R.T. -0.01 min
Lab File: BE089622.D
Acq: 18 Feb 2015 17:34

Instrument :
BNA_E
ClientSampleId :
MDL-02-W

Tgt Ion: 42 Resp: 9
Ion Ratio Lower Upper
42 100
74 55.6 121.4 182.0#
44 600.0 4.5 6.7#



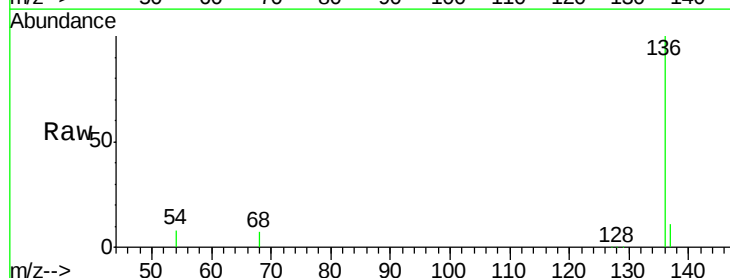
Abundance Ion 42.00 (41.70 to 42.70): BE0
Ion 74.00 (73.70 to 74.70): BE0
Ion 44.00 (43.70 to 44.70): BE0



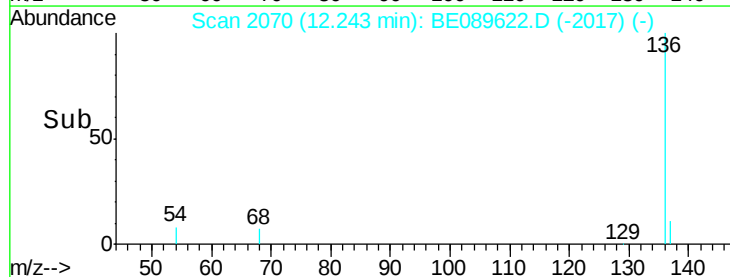
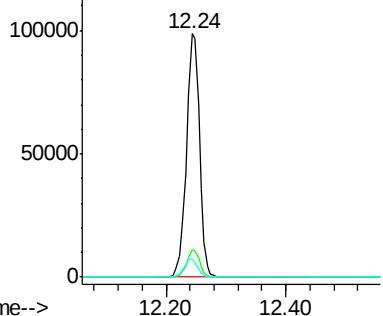
#4

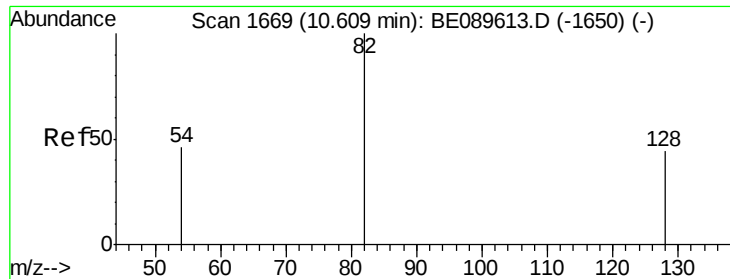
Naphthalene-d8
Concen: 5.00 ng
RT: 12.24 min Scan# 2070
Delta R.T. -0.01 min
Lab File: BE089622.D
Acq: 18 Feb 2015 17:34

Tgt Ion: 136 Resp: 150547
Ion Ratio Lower Upper
136 100
137 11.0 8.9 13.3
54 7.8 5.3 7.9



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





#5

Nitrobenzene-d5

Concen: 10.69 ng

RT: 10.61 min Scan# 1669

Delta R.T. -0.00 min

Lab File: BE089622.D

Acq: 18 Feb 2015 17:34

Instrument :

BNA_E

ClientSampleId :

MDL-02-W

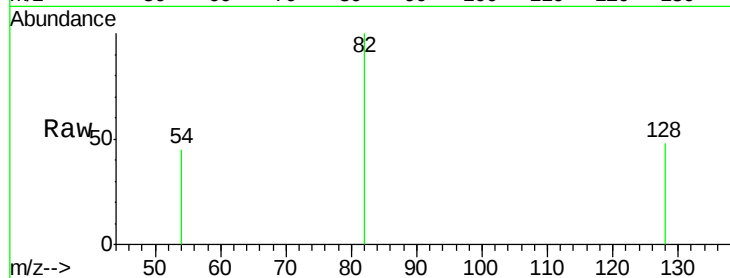
Tgt Ion: 82 Resp: 69972

Ion Ratio Lower Upper

82 100

128 47.6 35.5 53.3

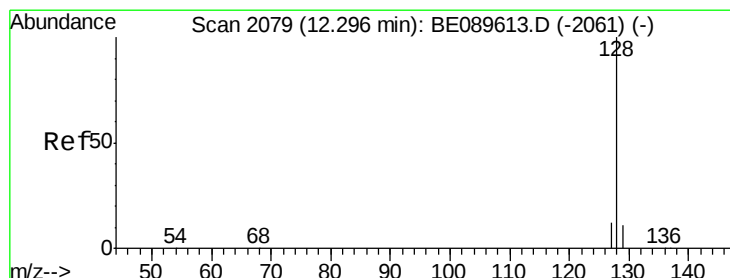
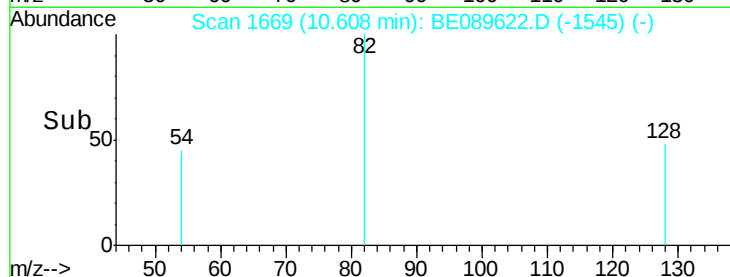
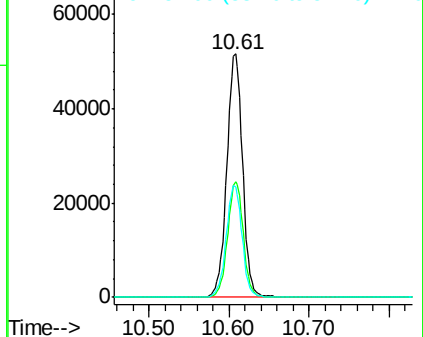
54 45.3 37.5 56.3



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



#6

Naphthalene

Concen: 0.07 ng

RT: 12.29 min Scan# 2079

Delta R.T. -0.01 min

Lab File: BE089622.D

Acq: 18 Feb 2015 17:34

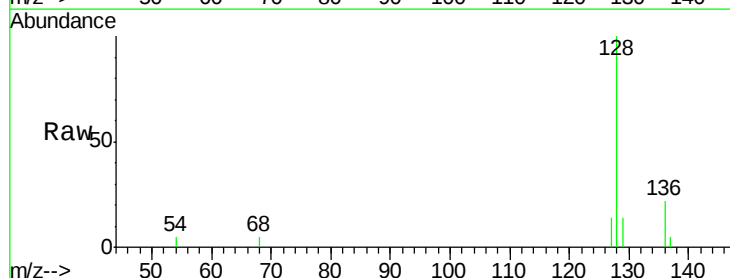
Tgt Ion: 128 Resp: 2498

Ion Ratio Lower Upper

128 100

129 14.2 8.9 13.3#

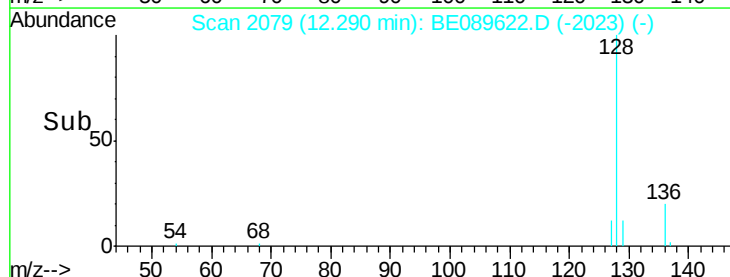
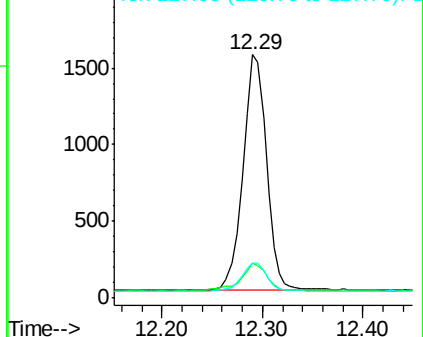
127 14.5 9.8 14.8



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





#7

2-Methylnaphthalene

Concen: 0.07 ng

RT: 13.95 min Scan# 2419

Delta R.T. 0.00 min

Lab File: BE089622.D

Acq: 18 Feb 2015 17:34

Instrument :

BNA_E

ClientSampleId :

MDL-02-W

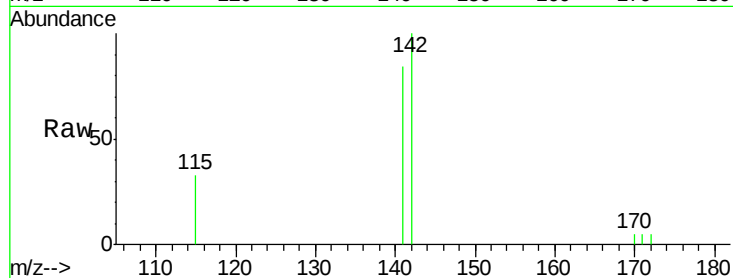
Tgt Ion:142 Resp: 1374

Ion Ratio Lower Upper

142 100

141 84.4 68.3 102.5

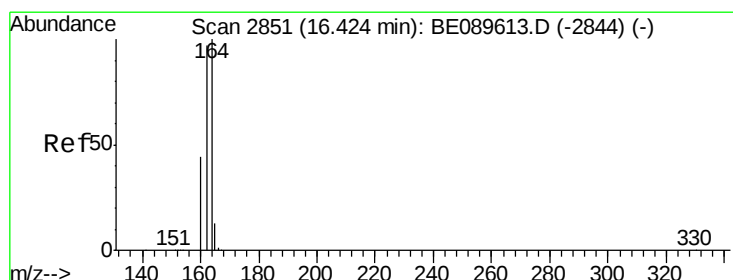
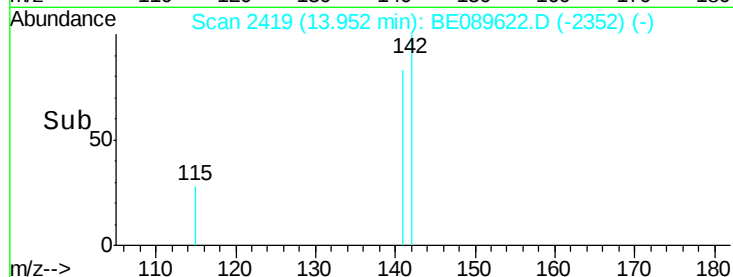
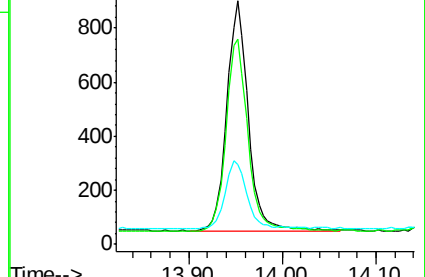
115 32.7 25.1 37.7



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



#8

Acenaphthene-d10

Concen: 5.00 ng

RT: 16.42 min Scan# 2853

Delta R.T. 0.00 min

Lab File: BE089622.D

Acq: 18 Feb 2015 17:34

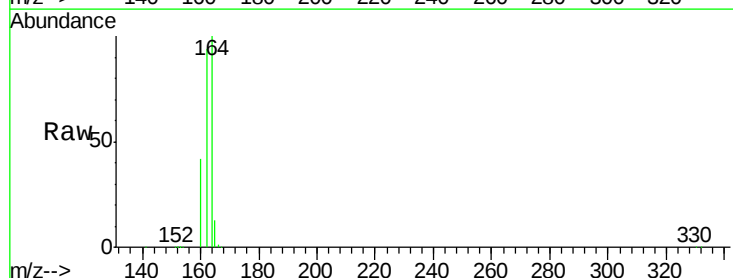
Tgt Ion:164 Resp: 74782

Ion Ratio Lower Upper

164 100

162 94.0 77.5 116.3

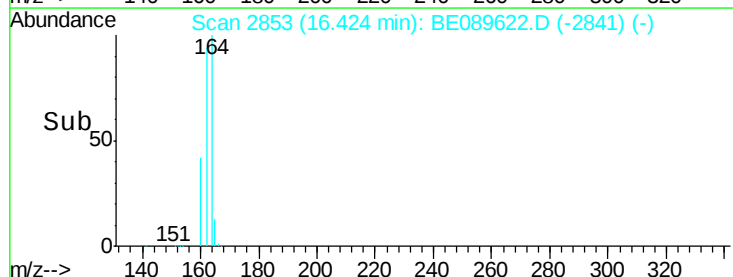
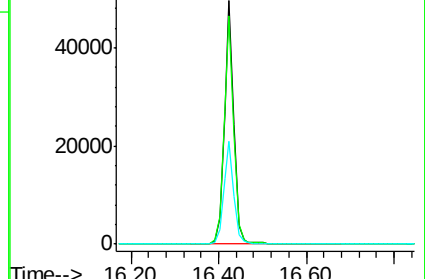
160 42.4 35.5 53.3



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





#9

2-Fluorobiphenyl

Concen: 9.70 ng

RT: 14.88 min Scan# 2623

Delta R.T. -0.00 min

Lab File: BE089622.D

Acq: 18 Feb 2015 17:34

Instrument :

BNA_E

ClientSampleId :

MDL-02-W

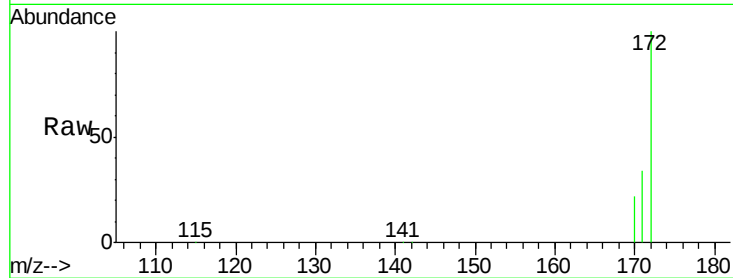
Tgt Ion:172 Resp: 194307

Ion Ratio Lower Upper

172 100

171 34.0 26.9 40.3

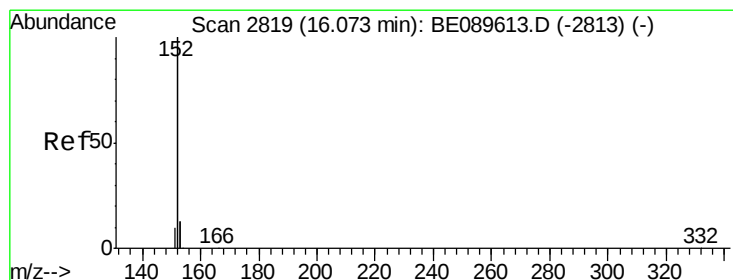
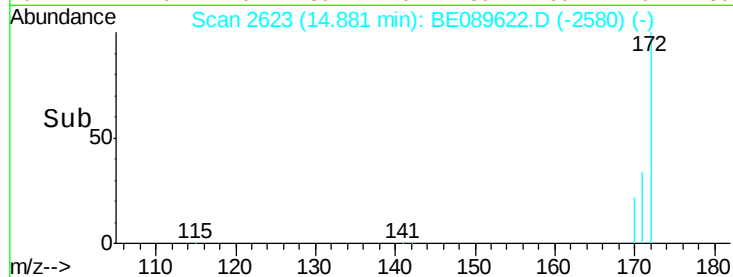
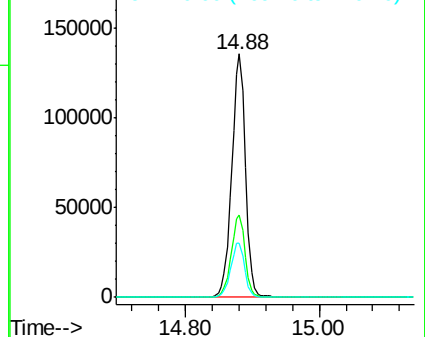
170 22.4 17.4 26.0



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



#10

Acenaphthylene

Concen: 0.06 ng

RT: 16.07 min Scan# 2821

Delta R.T. 0.00 min

Lab File: BE089622.D

Acq: 18 Feb 2015 17:34

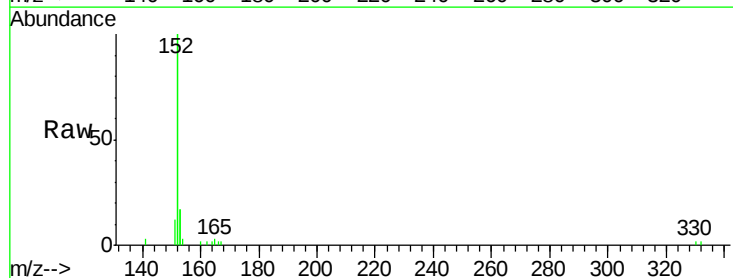
Tgt Ion:152 Resp: 7309

Ion Ratio Lower Upper

152 100

151 5.3 3.9 5.9

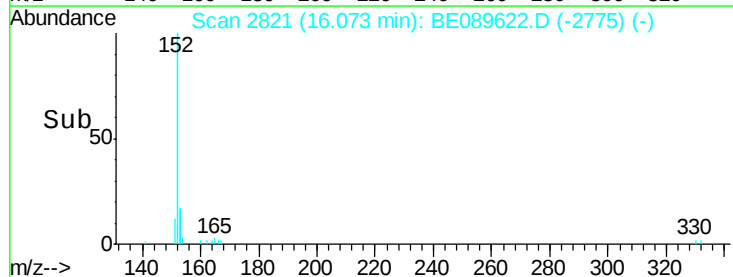
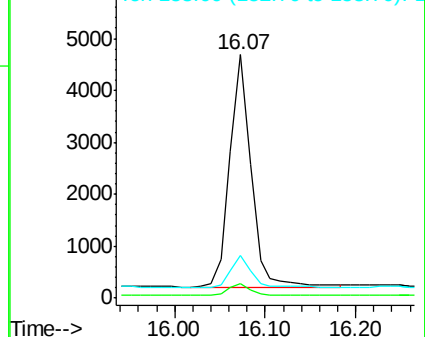
153 13.6 10.5 15.7

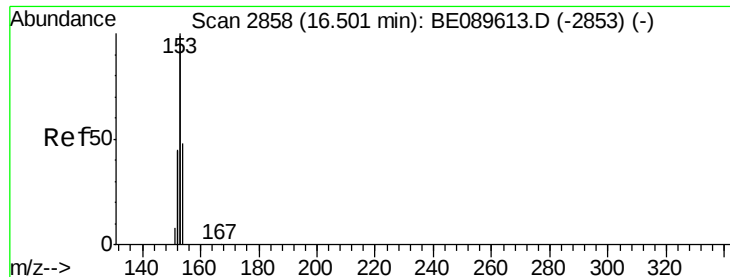


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#11

Acenaphthene

Concen: 0.07 ng

RT: 16.50 min Scan# 2860

Delta R.T. 0.00 min

Lab File: BE089622.D

Acq: 18 Feb 2015 17:34

Instrument :

BNA_E

ClientSampleId :

MDL-02-W

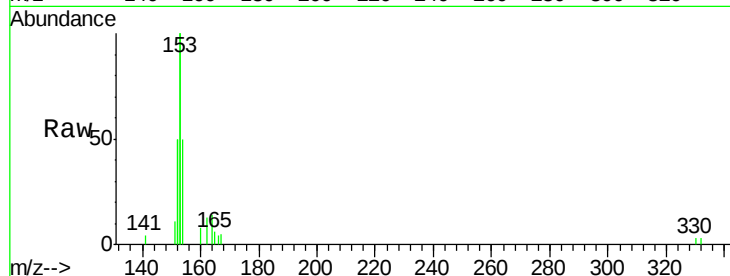
Tgt Ion:154 Resp: 1385

Ion Ratio Lower Upper

154 100

153 449.7 348.9 523.3

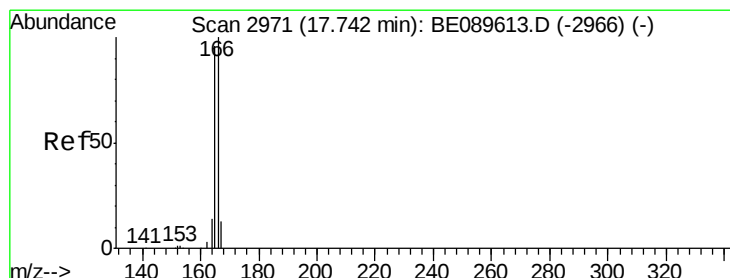
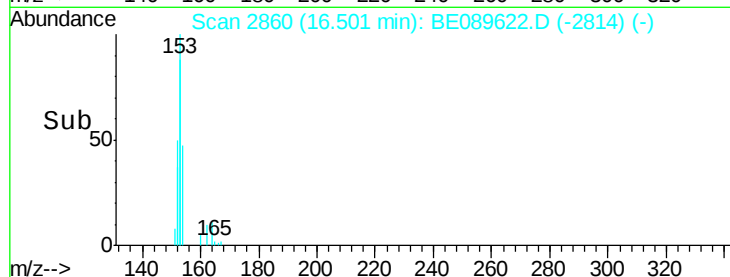
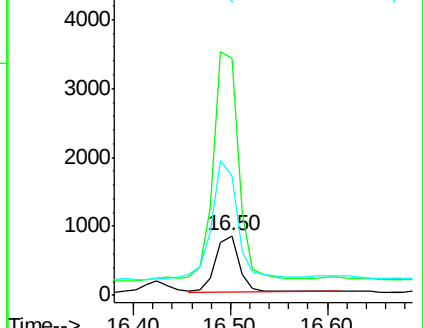
152 237.3 166.6 249.8



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



#12

Fluorene

Concen: 0.07 ng

RT: 17.74 min Scan# 2973

Delta R.T. 0.00 min

Lab File: BE089622.D

Acq: 18 Feb 2015 17:34

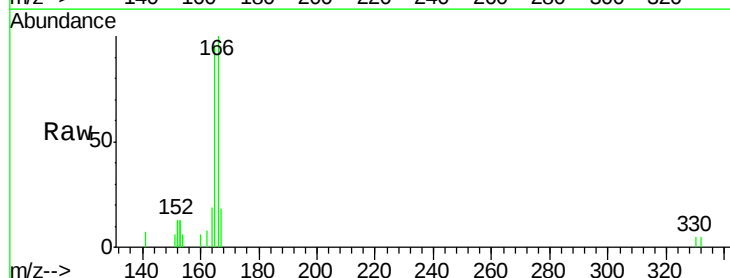
Tgt Ion:166 Resp: 1536

Ion Ratio Lower Upper

166 100

165 90.6 74.7 112.1

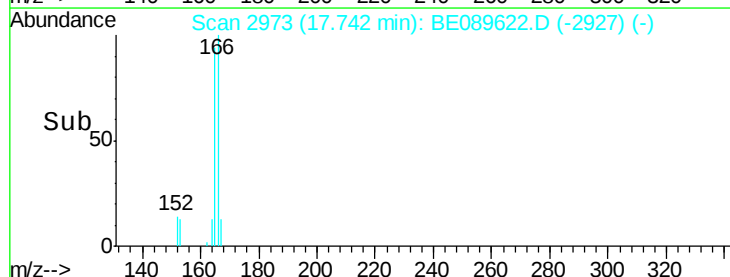
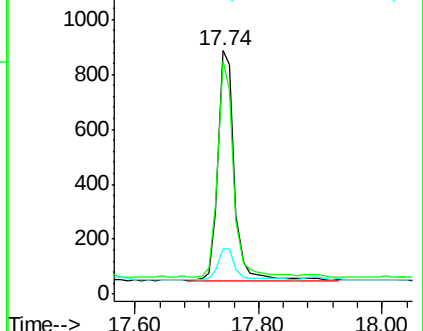
167 13.6 10.5 15.7

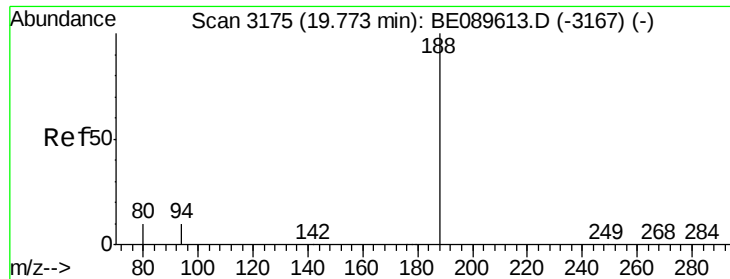


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

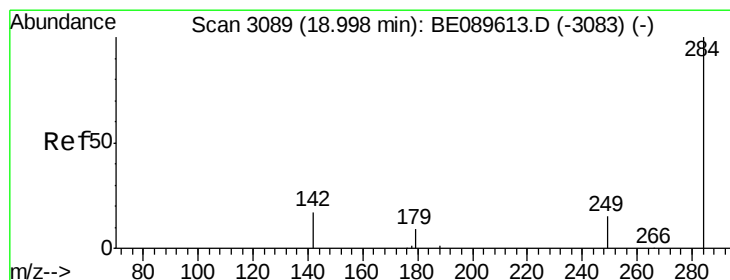
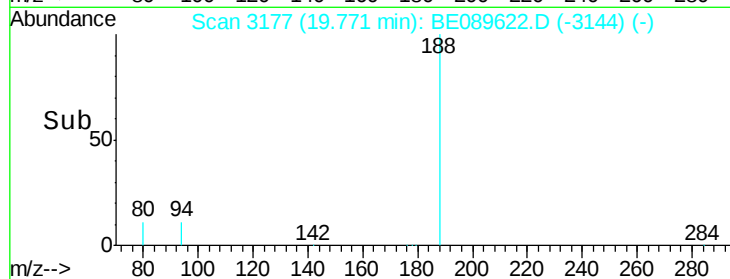
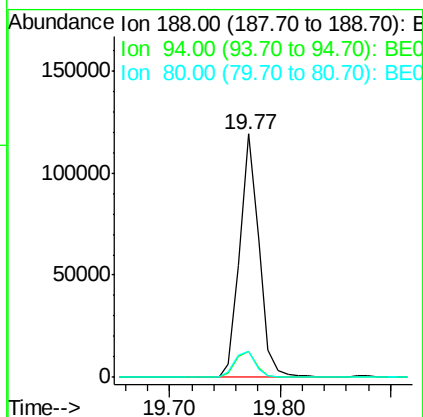
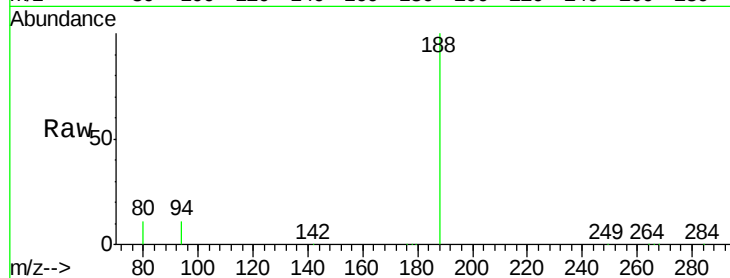




#13
Phenanthrene-d10
Concen: 5.00 ng
RT: 19.77 min Scan# 3177
Delta R.T. -0.00 min
Lab File: BE089622.D
Acq: 18 Feb 2015 17:34

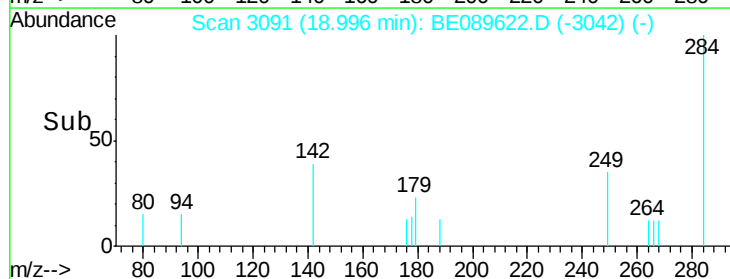
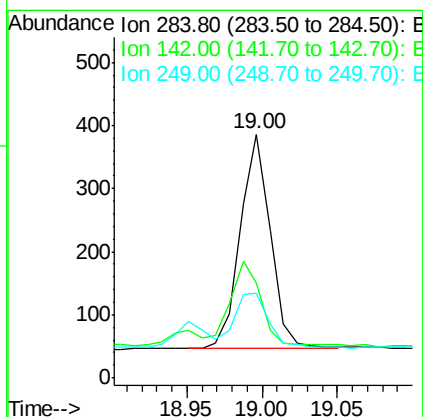
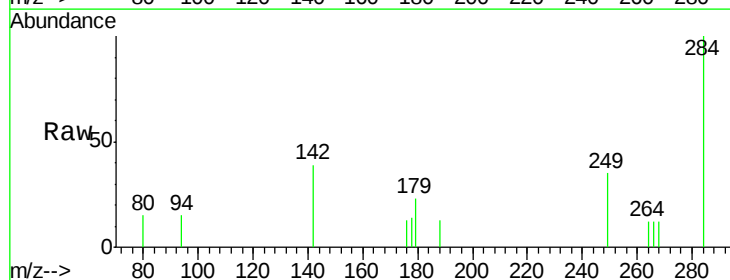
Instrument :
BNA_E
ClientSampleId :
MDL-02-W

Tgt Ion:188 Resp: 144880
Ion Ratio Lower Upper
188 100
94 10.6 8.2 12.4
80 10.6 8.1 12.1



#14
Hexachlorobenzene
Concen: 0.08 ng
RT: 19.00 min Scan# 3091
Delta R.T. -0.00 min
Lab File: BE089622.D
Acq: 18 Feb 2015 17:34

Tgt Ion:284 Resp: 478
Ion Ratio Lower Upper
284 100
142 51.0 32.3 48.5#
249 29.3 22.3 33.5

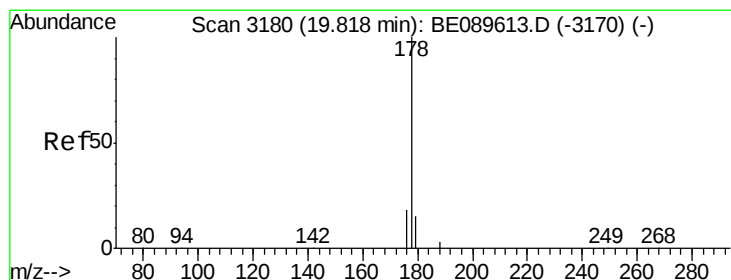
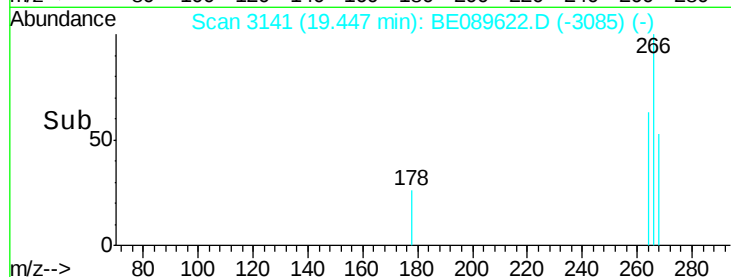
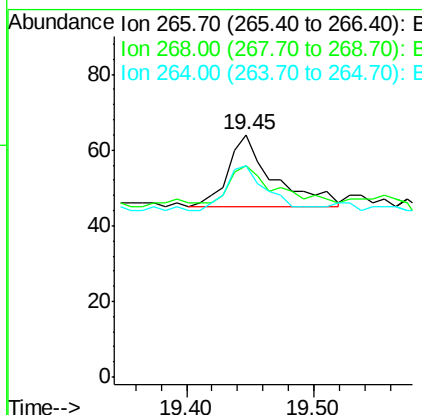
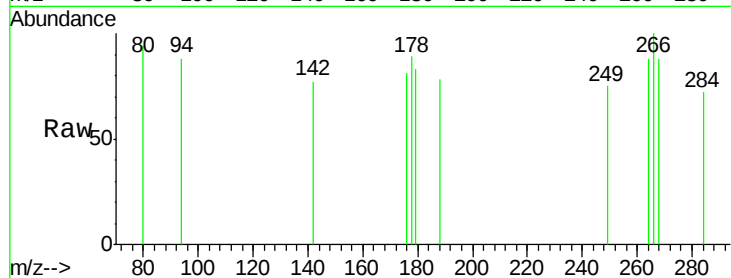




#15
 Pentachlorophenol
 Concen: 0.02 ng
 RT: 19.45 min Scan# 3141
 Delta R.T. 0.01 min
 Lab File: BE089622.D
 Acq: 18 Feb 2015 17:34

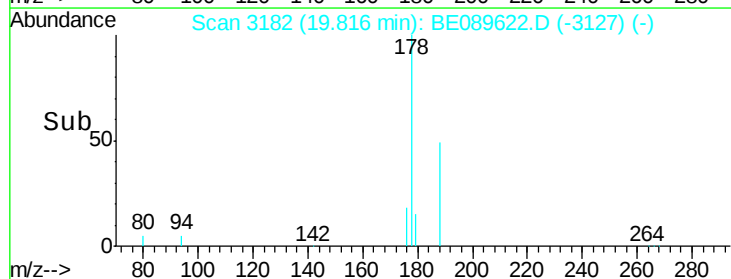
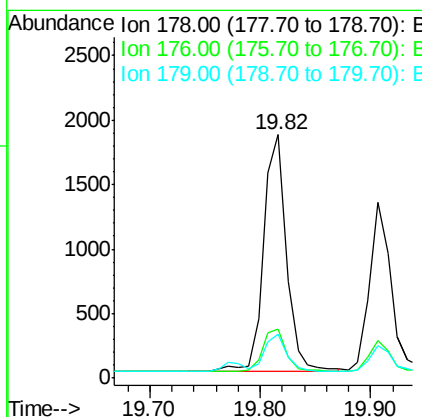
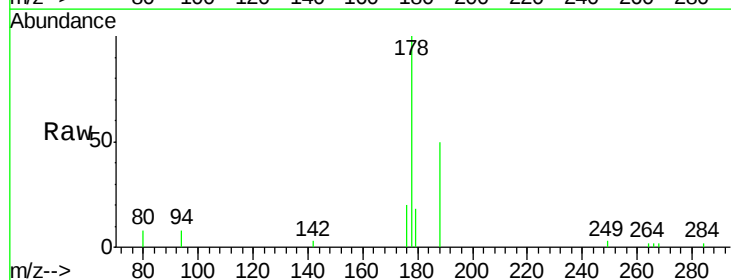
Instrument :
 BNA_E
 ClientSampleId :
 MDL-02-W

Tgt Ion: 266 Resp: 46
 Ion Ratio Lower Upper
 266 100
 268 87.5 52.6 79.0#
 264 87.5 51.8 77.8#



#16
 Phenanthrene
 Concen: 0.07 ng
 RT: 19.82 min Scan# 3182
 Delta R.T. -0.00 min
 Lab File: BE089622.D
 Acq: 18 Feb 2015 17:34

Tgt Ion: 178 Resp: 2645
 Ion Ratio Lower Upper
 178 100
 176 18.8 15.1 22.7
 179 14.8 12.3 18.5

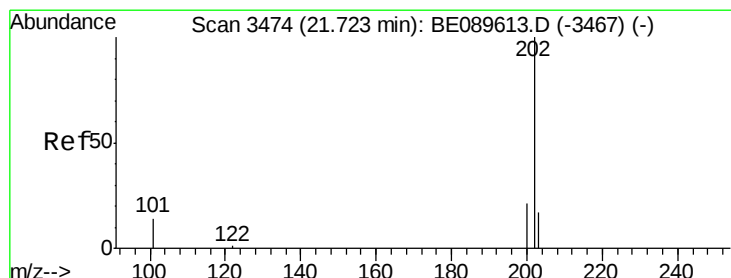
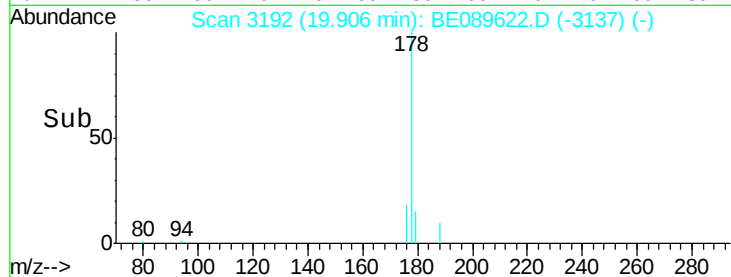
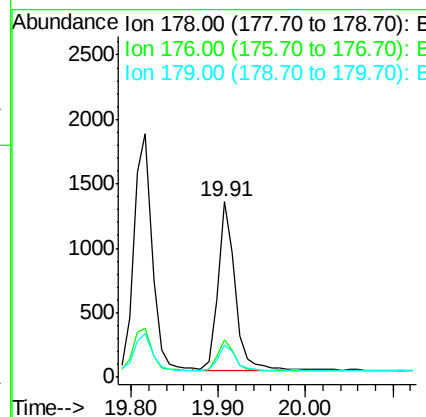
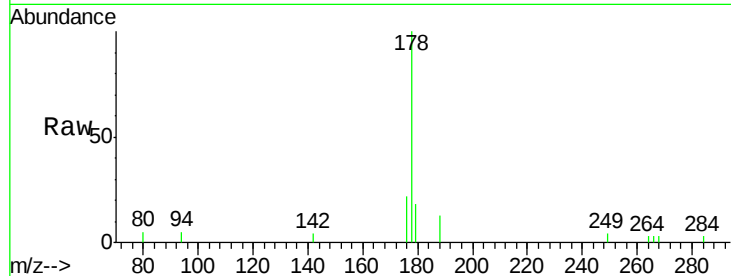




#17
 Anthracene
 Concen: 0.06 ng
 RT: 19.91 min Scan# 3192
 Delta R.T. -0.00 min
 Lab File: BE089622.D
 Acq: 18 Feb 2015 17:34

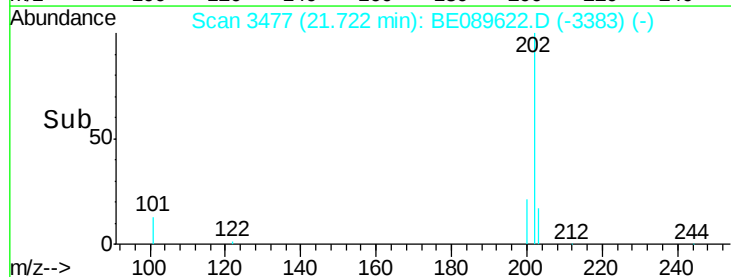
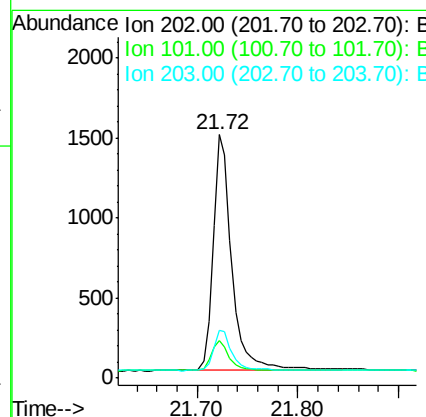
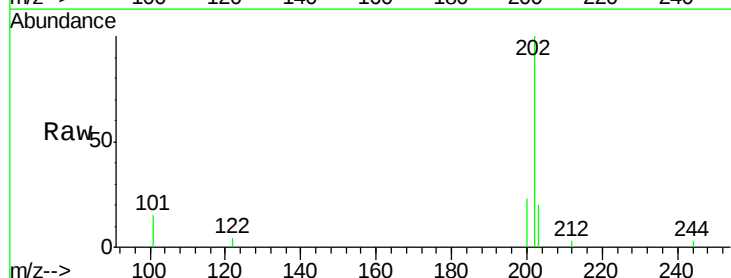
Instrument :
 BNA_E
 ClientSampleId :
 MDL-02-W

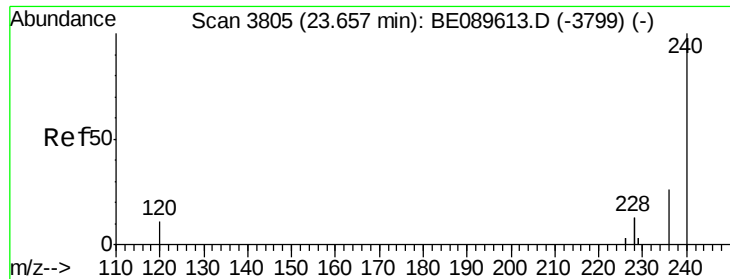
Tgt Ion:178 Resp: 1812
 Ion Ratio Lower Upper
 178 100
 176 18.0 14.6 22.0
 179 14.7 12.3 18.5



#18
 Fluoranthene
 Concen: 0.06 ng
 RT: 21.72 min Scan# 3477
 Delta R.T. -0.00 min
 Lab File: BE089622.D
 Acq: 18 Feb 2015 17:34

Tgt Ion:202 Resp: 1920
 Ion Ratio Lower Upper
 202 100
 101 12.2 10.4 15.6
 203 17.7 13.9 20.9





#19

Chrysene-d12

Concen: 5.00 ng

RT: 23.66 min Scan# 3808

Delta R.T. -0.00 min

Lab File: BE089622.D

Acq: 18 Feb 2015 17:34

Instrument :

BNA_E

ClientSampleId :

MDL-02-W

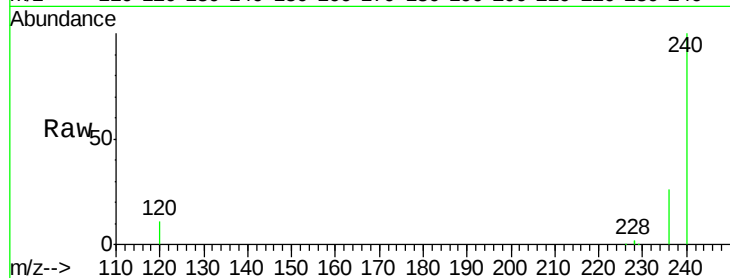
Tgt Ion:240 Resp: 131810

Ion Ratio Lower Upper

240 100

120 11.3 9.0 13.4

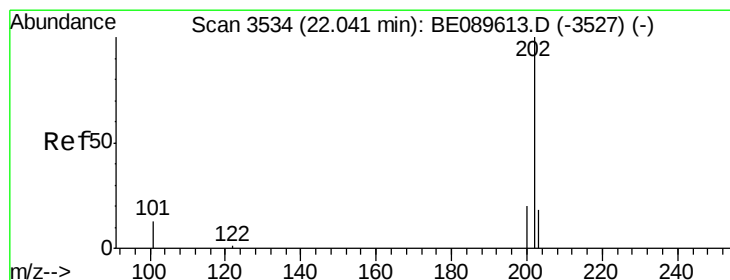
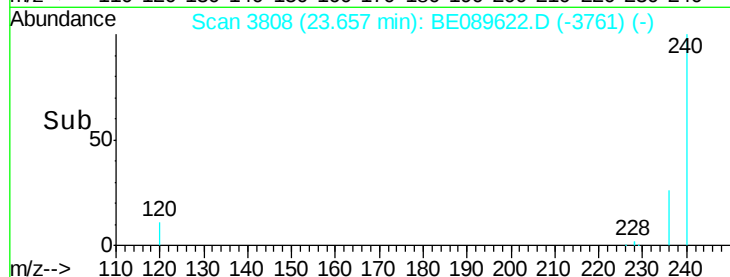
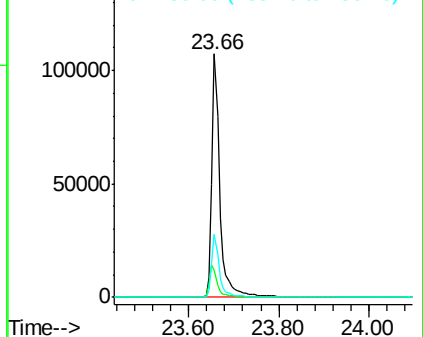
236 26.1 21.0 31.6



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



#20

Pyrene

Concen: 0.06 ng

RT: 22.04 min Scan# 3537

Delta R.T. -0.00 min

Lab File: BE089622.D

Acq: 18 Feb 2015 17:34

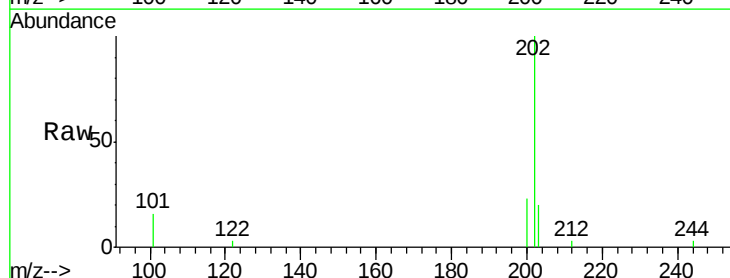
Tgt Ion:202 Resp: 2066

Ion Ratio Lower Upper

202 100

200 20.3 16.3 24.5

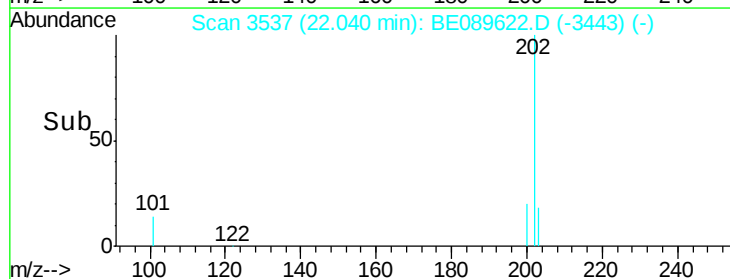
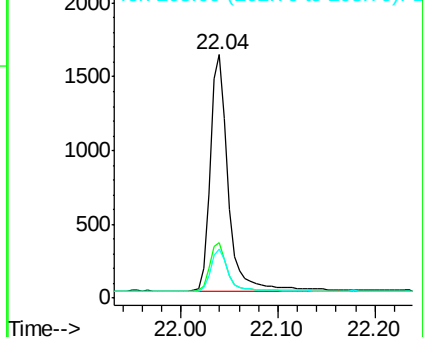
203 16.7 13.8 20.8



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





#21

Terphenyl-d14

Concen: 12.24 ng

RT: 22.30 min Scan# 3586

Delta R.T. -0.00 min

Lab File: BE089622.D

Acq: 18 Feb 2015 17:34

Instrument :

BNA_E

ClientSampleId :

MDL-02-W

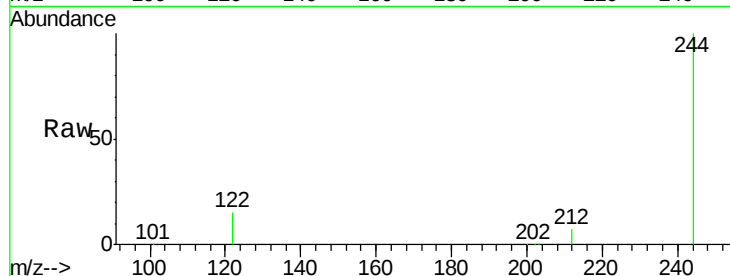
Tgt Ion:244 Resp: 231980

Ion Ratio Lower Upper

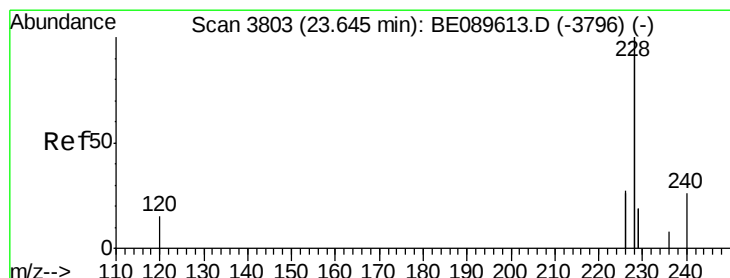
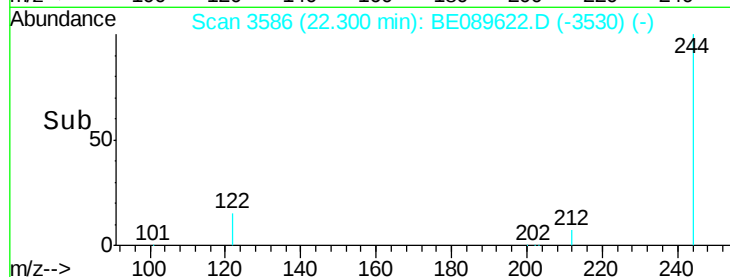
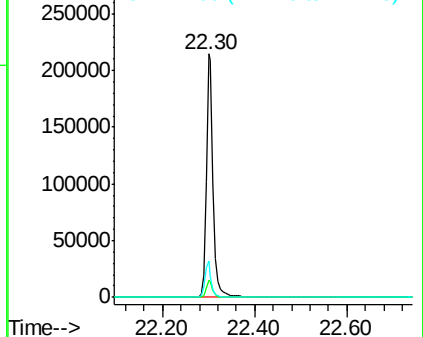
244 100

212 7.1 5.8 8.8

122 15.1 11.8 17.8



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



#22

Benzo(a)anthracene

Concen: 0.09 ng

RT: 23.69 min Scan# 3813

Delta R.T. 0.04 min

Lab File: BE089622.D

Acq: 18 Feb 2015 17:34

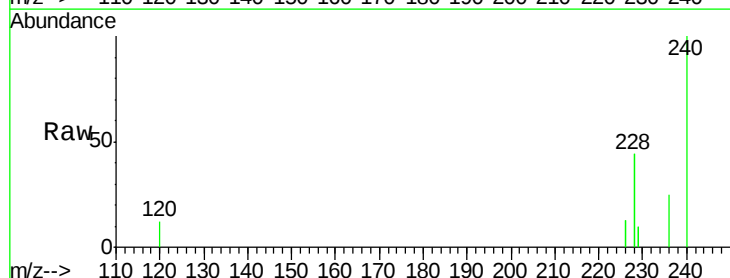
Tgt Ion:228 Resp: 10980

Ion Ratio Lower Upper

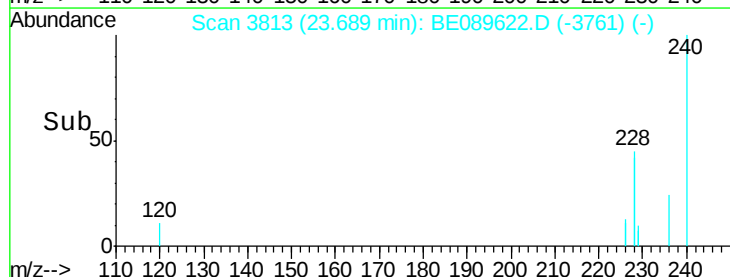
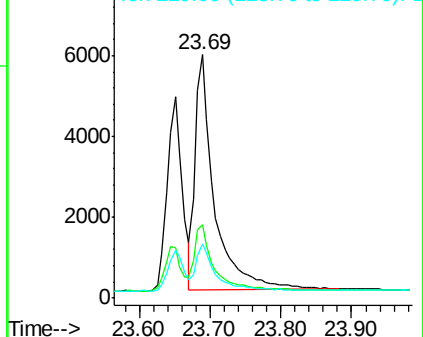
228 100

226 29.9 21.2 31.8

229 22.3 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





#23

Chrysene

Concen: 0.08 ng

RT: 23.69 min Scan# 3813

Delta R.T. -0.00 min

Lab File: BE089622.D

Acq: 18 Feb 2015 17:34

Instrument :

BNA_E

ClientSampleId :

MDL-02-W

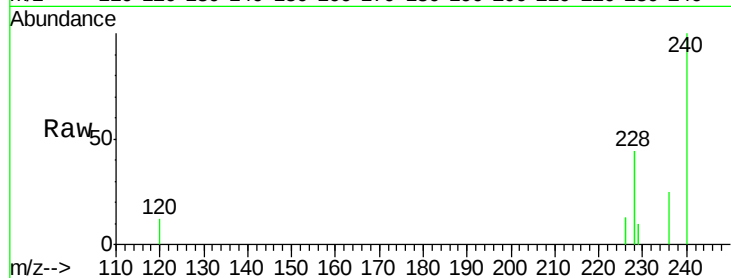
Tgt Ion:228 Resp: 10980

Ion Ratio Lower Upper

228 100

226 29.9 22.2 33.4

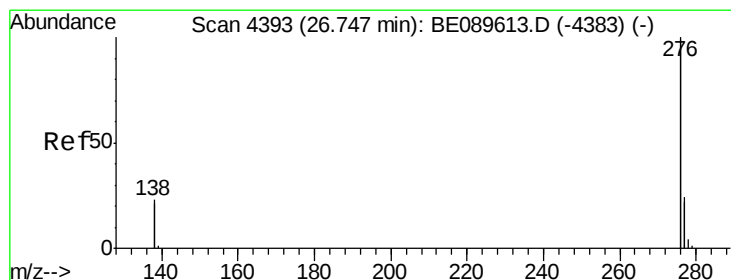
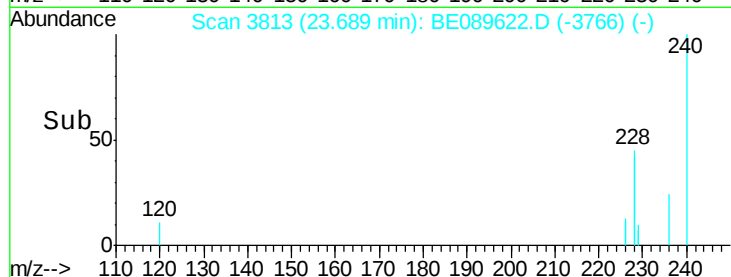
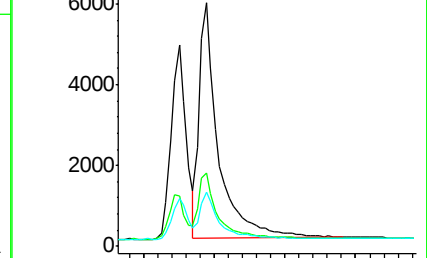
229 22.3 16.0 24.0



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



#24

Indeno(1,2,3-cd)pyrene

Concen: 0.20 ng

RT: 26.74 min Scan# 4395

Delta R.T. -0.01 min

Lab File: BE089622.D

Acq: 18 Feb 2015 17:34

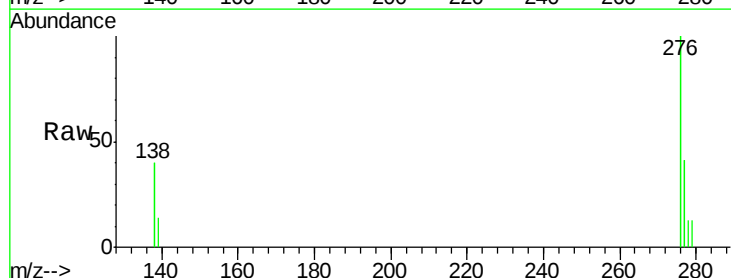
Tgt Ion:276 Resp: 2530

Ion Ratio Lower Upper

276 100

138 21.7 21.4 32.2

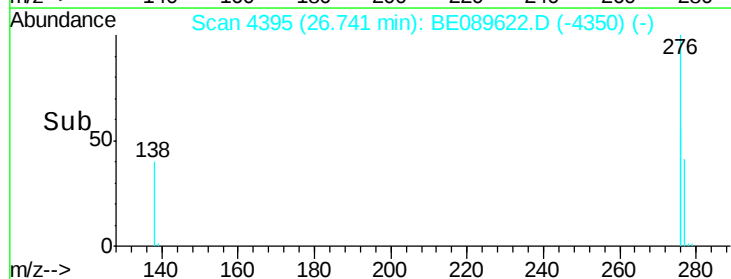
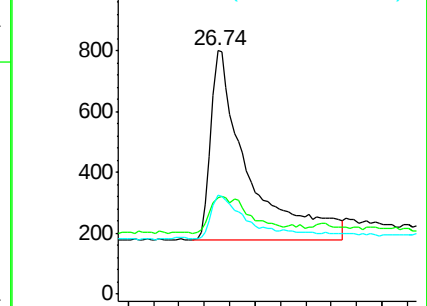
277 20.6 19.9 29.9

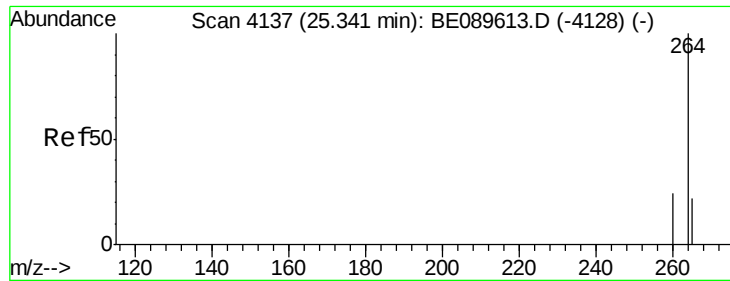


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

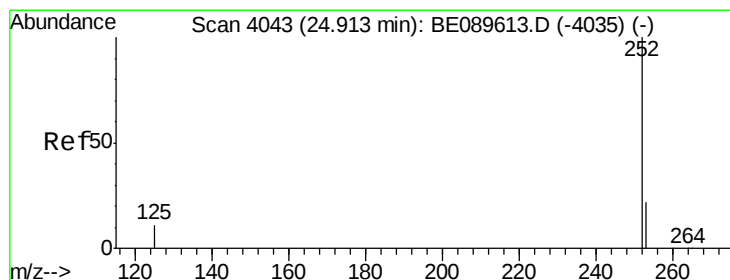
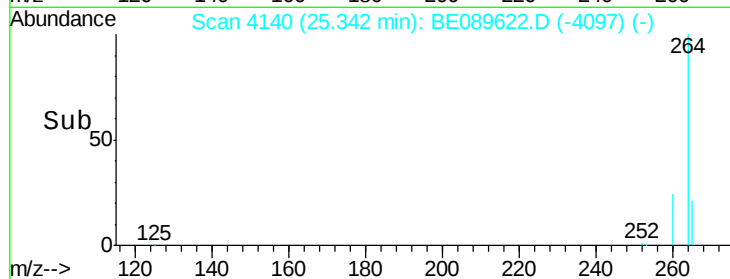
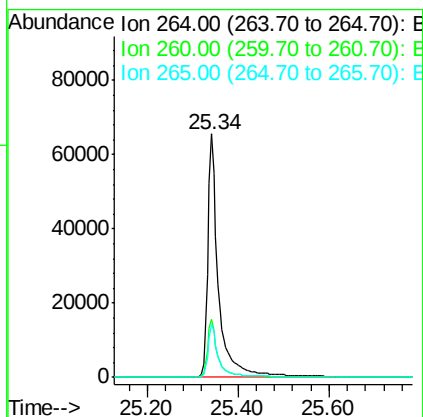
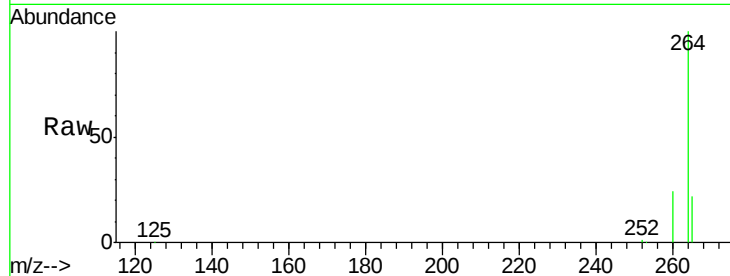




#25
 Perylene-d12
 Concen: 5.00 ng
 RT: 25.34 min Scan# 4140
 Delta R.T. 0.00 min
 Lab File: BE089622.D
 Acq: 18 Feb 2015 17:34

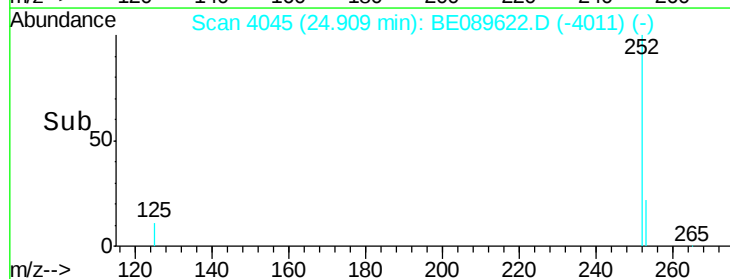
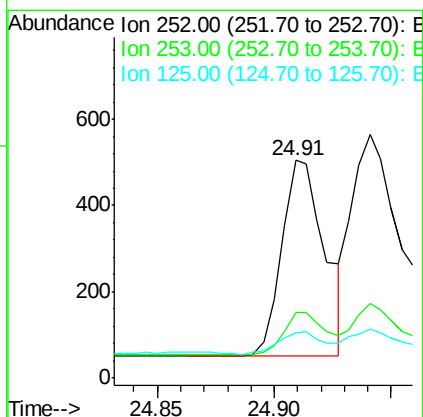
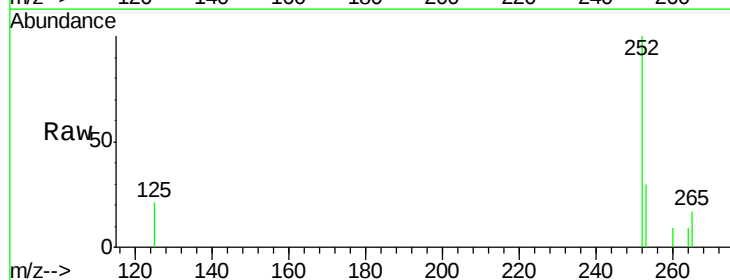
Instrument :
 BNA_E
 ClientSampleId :
 MDL-02-W

Tgt Ion: 264 Resp: 106543
 Ion Ratio Lower Upper
 264 100
 260 23.7 19.0 28.6
 265 21.5 17.4 26.0



#26
 Benzo(b)fluoranthene
 Concen: 0.29 ng
 RT: 24.91 min Scan# 4045
 Delta R.T. -0.00 min
 Lab File: BE089622.D
 Acq: 18 Feb 2015 17:34

Tgt Ion: 252 Resp: 584
 Ion Ratio Lower Upper
 252 100
 253 29.9 17.6 26.4#
 125 21.0 8.8 13.2#





#27

Benzo(k)fluoranthene

Concen: 0.04 ng

RT: 24.94 min Scan# 4052

Delta R.T. -0.00 min

Lab File: BE089622.D

Acq: 18 Feb 2015 17:34

Instrument :

BNA_E

ClientSampleId :

MDL-02-W

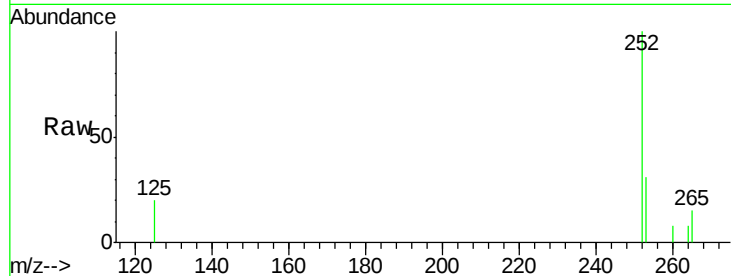
Tgt Ion:252 Resp: 1144

Ion Ratio Lower Upper

252 100

253 30.9 17.7 26.5#

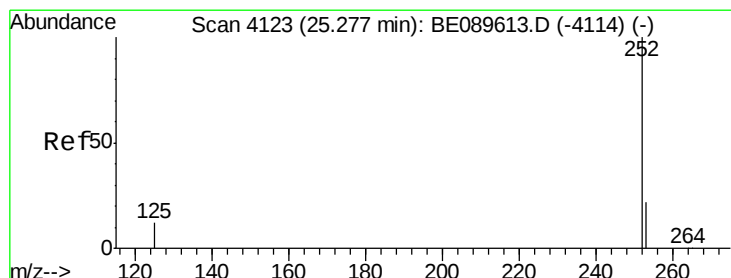
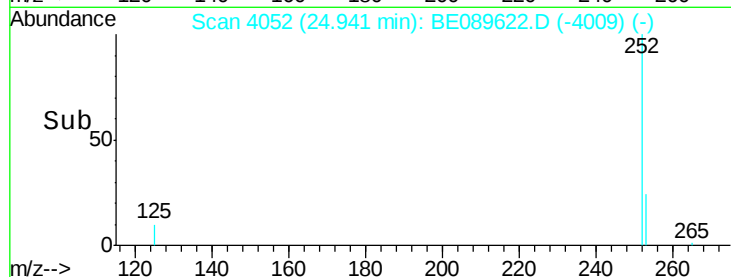
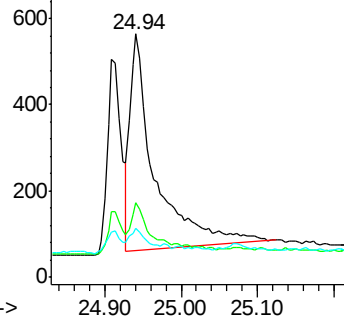
125 20.0 8.8 13.2#



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#28

Benzo(a)pyrene

Concen: 0.27 ng

RT: 25.27 min Scan# 4125

Delta R.T. -0.00 min

Lab File: BE089622.D

Acq: 18 Feb 2015 17:34

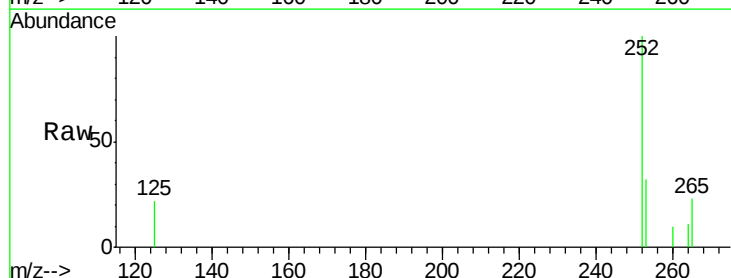
Tgt Ion:252 Resp: 591

Ion Ratio Lower Upper

252 100

253 32.2 18.1 27.1#

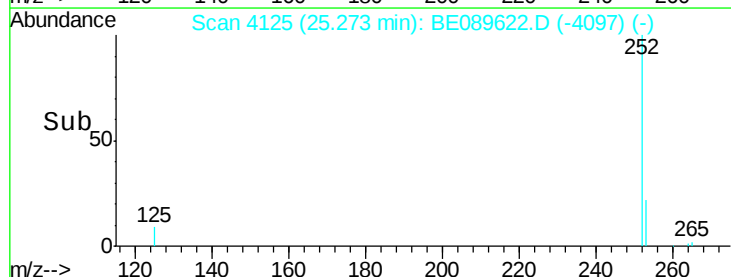
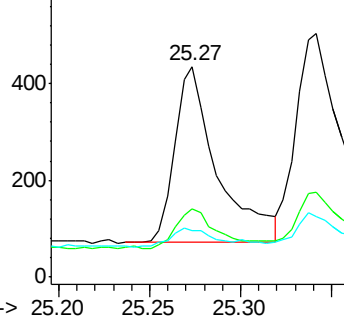
125 21.8 9.6 14.4#

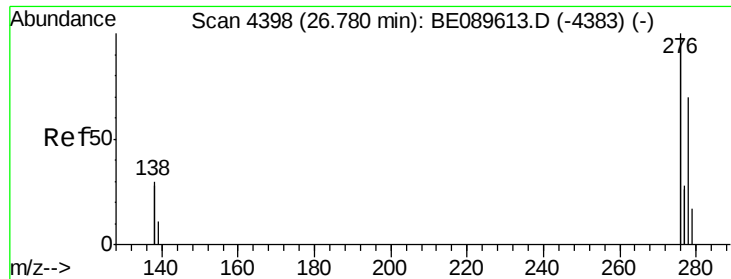


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#29

Dibenzo(a,h)anthracene

Concen: 0.25 ng

RT: 26.77 min Scan# 4400

Delta R.T. -0.01 min

Lab File: BE089622.D

Acq: 18 Feb 2015 17:34

Instrument :

BNA_E

ClientSampleId :

MDL-02-W

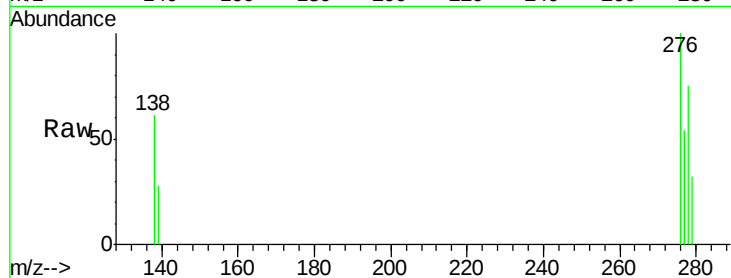
Tgt Ion:278 Resp: 435

Ion Ratio Lower Upper

278 100

139 37.4 13.7 20.5#

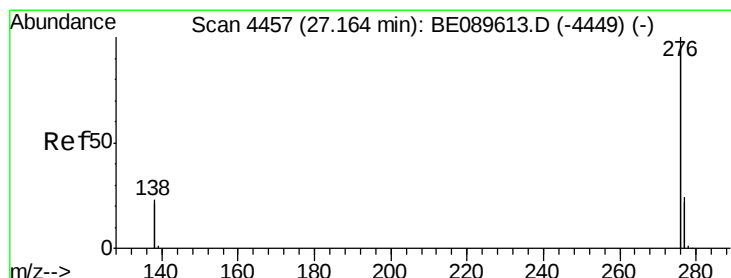
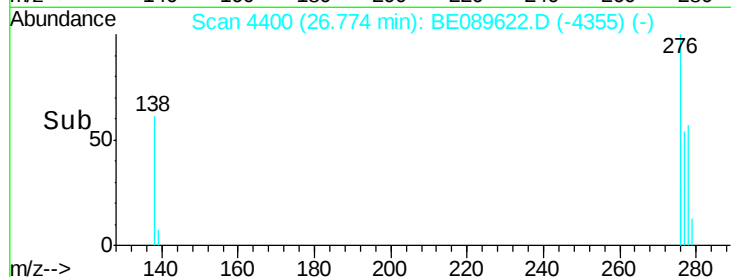
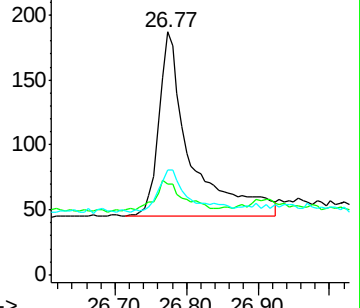
279 43.3 19.7 29.5#



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



#30

Benzo(g,h,i)perylene

Concen: 0.17 ng

RT: 27.16 min Scan# 4459

Delta R.T. -0.01 min

Lab File: BE089622.D

Acq: 18 Feb 2015 17:34

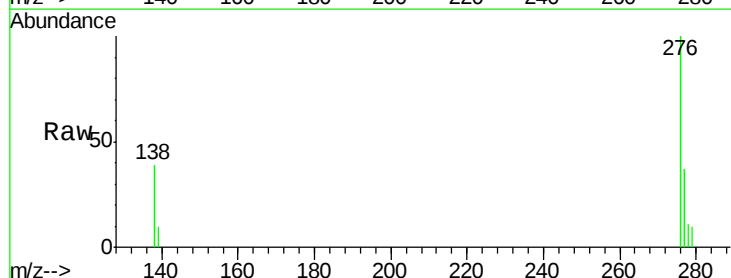
Tgt Ion:276 Resp: 3372

Ion Ratio Lower Upper

276 100

277 37.1 19.1 28.7#

138 39.0 18.7 28.1#



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

