

Data Path : Z:\HPCHEM1\BNA E\DATA\BE021815\
 Data File : BE089640.D
 Acq On : 19 Feb 2015 23:51
 Operator : TP/IZ
 Sample : MDL-02-W
 Misc : MDL-WATER-0.2/0.4
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 MDL-02-W

Quant Time: Feb 20 02:21:51 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

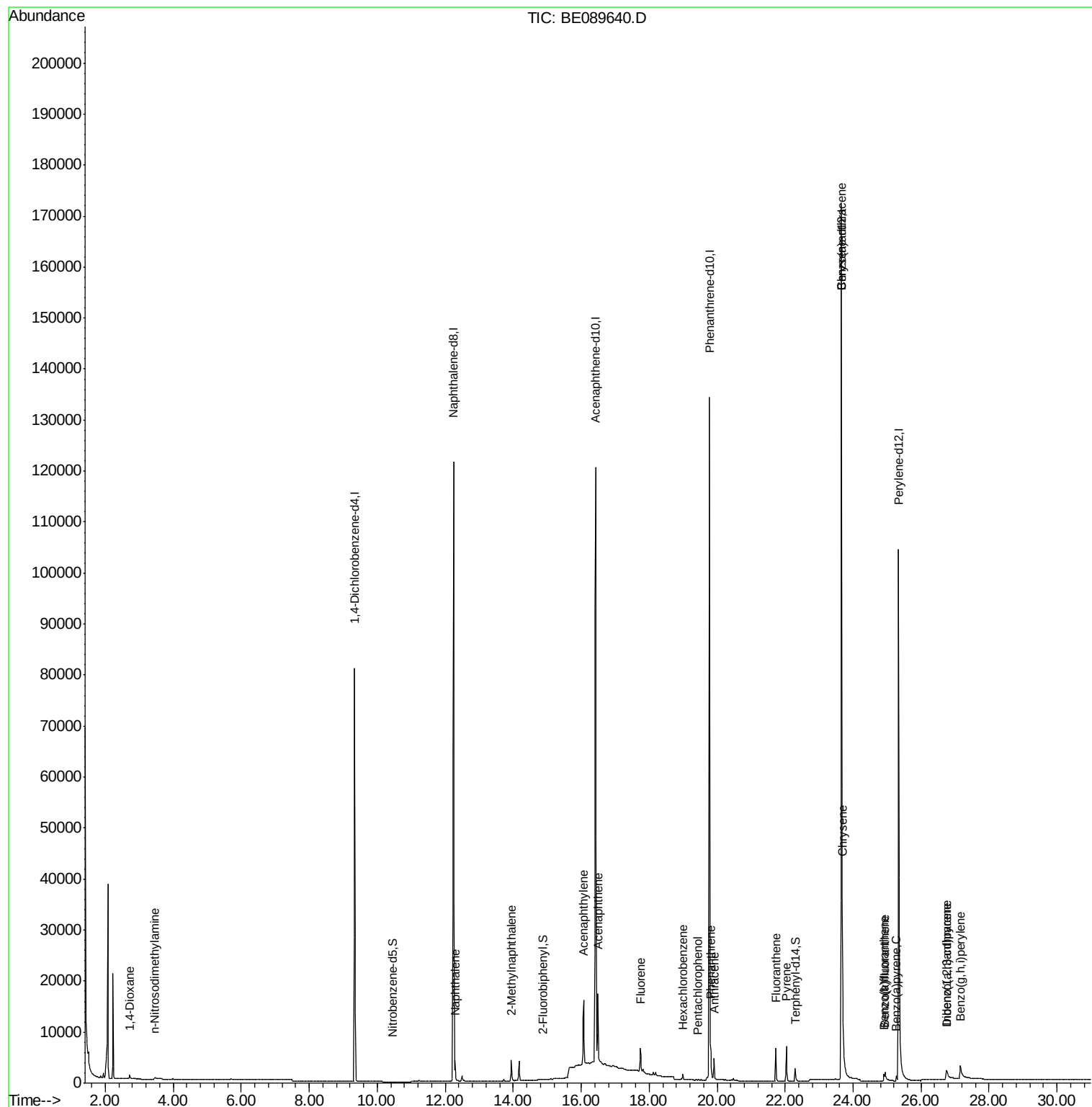
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.34	152	37071	5.00	ng	0.00
4) Naphthalene-d8	12.24	136	147884	5.00	ng	0.00
8) Acenaphthene-d10	16.42	164	74384	5.00	ng	0.00
13) Phenanthrene-d10	19.77	188	147377	5.00	ng	0.00
19) Chrysene-d12	23.66	240	145356	5.00	ng	0.00
25) Perylene-d12	25.34	264	118330	5.00	ng	0.00
System Monitoring Compounds						
5) Nitrobenzene-d5	10.45	82	136	0.02	ng	-0.16
9) 2-Fluorobiphenyl	14.88	172	72	0.00	ng	0.00
21) Terphenyl-d14	22.30	244	4185	0.20	ng	0.00
Target Compounds						Ovalue
2) 1,4-Dioxane	2.72	88	631	0.14	ng	# 83
3) n-Nitrosodimethylamine	3.45	42	451	0.10	ng	# 65
6) Naphthalene	12.29	128	4940	0.15	ng	95
7) 2-Methylnaphthalene	13.95	142	2965	0.15	ng	97
10) Acenaphthylene	16.07	152	17833	0.15	ng	98
11) Acenaphthene	16.49	154	2983	0.15	ng	# 78
12) Fluorene	17.74	166	3592	0.16	ng	# 89
14) Hexachlorobenzene	18.99	284	983	0.16	ng	95
15) Pentachlorophenol	19.44	266	59	0.04	ng	# 73
16) Phenanthrene	19.81	178	6742	0.19	ng	99
17) Anthracene	19.91	178	4418	0.14	ng	98
18) Fluoranthene	21.72	202	6547	0.19	ng	99
20) Pyrene	22.04	202	6704	0.19	ng	99
22) Benzo(a)anthracene	23.65	228	19494	0.15	ng	96
23) Chrysene	23.69	228	30183	0.21	ng	99
24) Indeno(1,2,3-cd)pyrene	26.74	276	6448	0.22	ng	# 89
26) Benzo(b)fluoranthene	24.91	252	1566	0.32	ng	# 92
27) Benzo(k)fluoranthene	24.94	252	4049m	0.12	ng	
28) Benzo(a)pyrene	25.27	252	1442	0.29	ng	# 89
29) Dibenzo(a,h)anthracene	26.77	278	1061	0.27	ng	# 75
30) Benzo(g,h,i)perylene	27.16	276	8137	0.21	ng	# 84

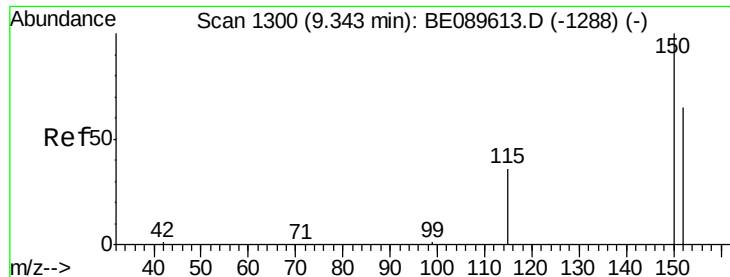
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 9.34 min Scan# 1299

Delta R.T. -0.00 min

Lab File: BE089640.D

Acq: 19 Feb 2015 23:51

Instrument :

BNA_E

ClientSampleId :

MDL-02-W

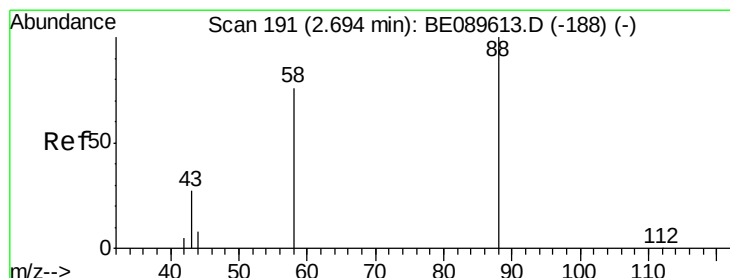
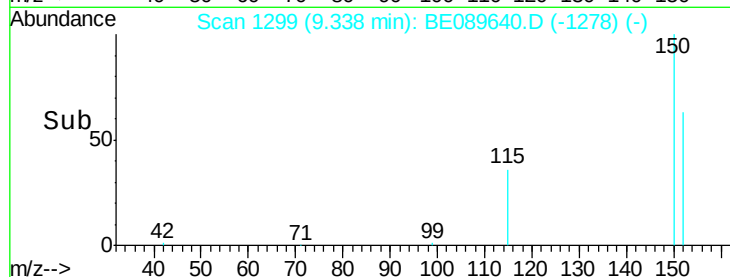
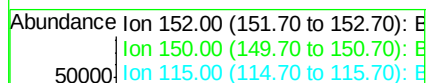
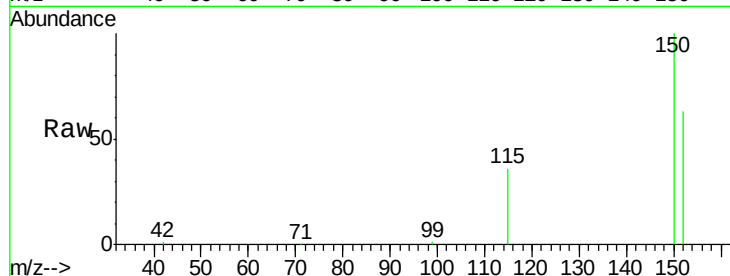
Tot Ion:152 Resp: 37071

Ion Ratio Lower Upper

152 100

150 158.1 122.4 183.6

115 56.5 44.2 66.2



#2

1,4-Dioxane

Concen: 0.14 ng

RT: 2.72 min Scan# 194

Delta R.T. 0.02 min

Lab File: BE089640.D

Acq: 19 Feb 2015 23:51

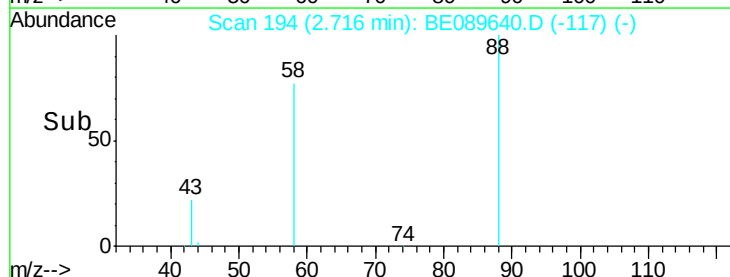
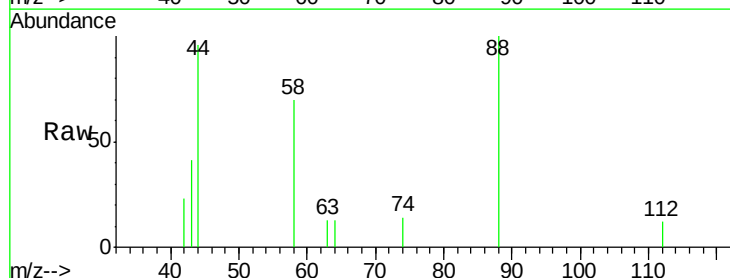
Tgt Ion: 88 Resp: 631

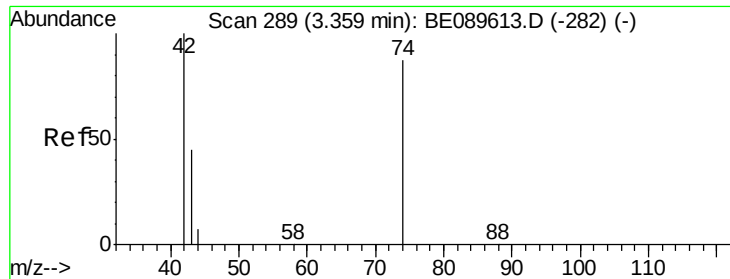
Ion Ratio Lower Upper

88 100

58 71.6 54.6 81.8

43 0.0 20.6 30.8#



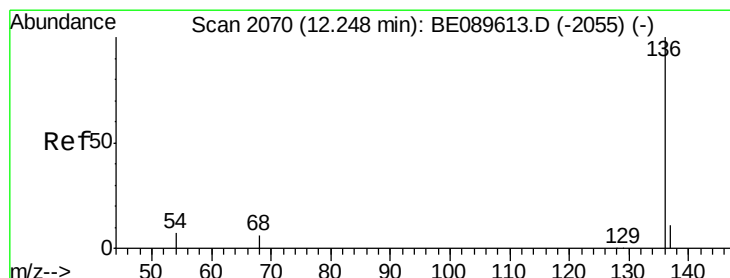
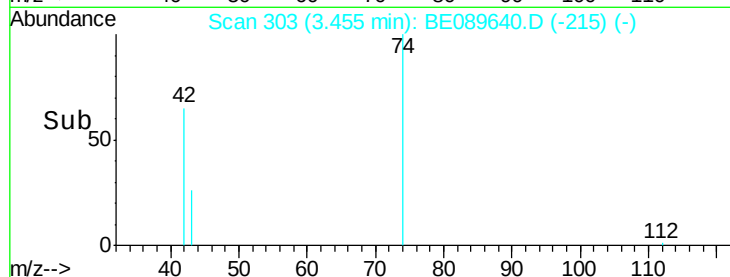
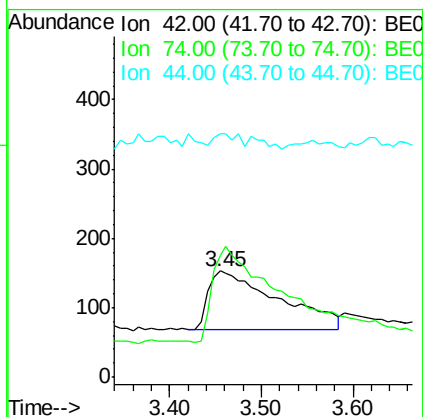
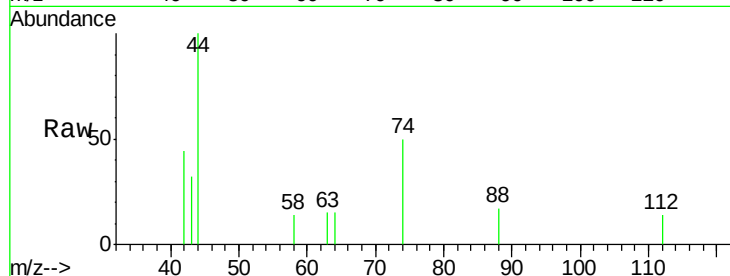


#3

n-Nitrosodimethylamine
 Concen: 0.10 ng
 RT: 3.45 min Scan# 303
 Delta R.T. 0.10 min
 Lab File: BE089640.D
 Acq: 19 Feb 2015 23:51

Instrument :
 BNA_E
 ClientSampleId :
 MDL-02-W

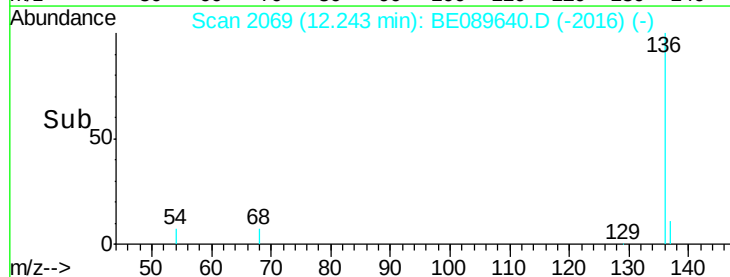
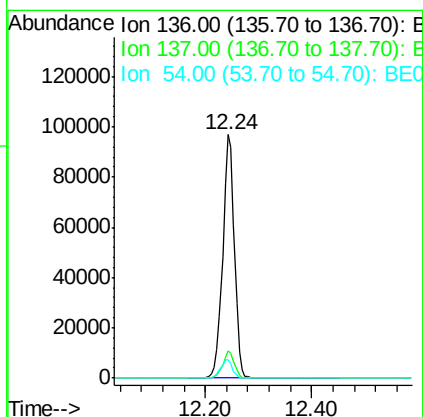
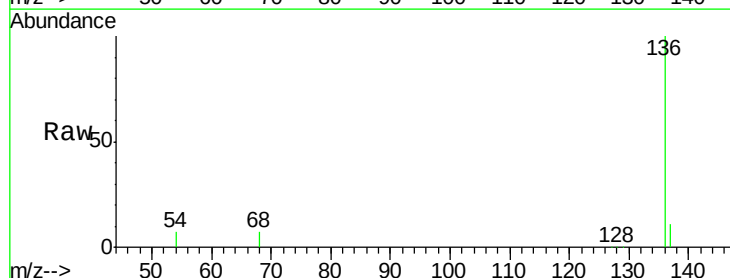
Tot Ion: 42 Resp: 451
 Ion Ratio Lower Upper
 42 100
 74 197.6 121.4 182.0#
 44 0.0 4.5 6.7#

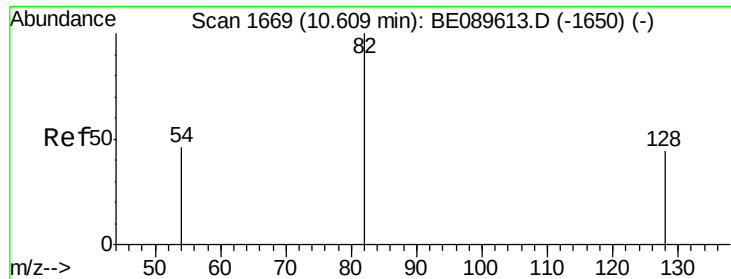


#4

Naphthalene-d8
 Concen: 5.00 ng
 RT: 12.24 min Scan# 2069
 Delta R.T. -0.01 min
 Lab File: BE089640.D
 Acq: 19 Feb 2015 23:51

Tgt Ion: 136 Resp: 147884
 Ion Ratio Lower Upper
 136 100
 137 11.0 8.9 13.3
 54 7.5 5.3 7.9





#5

Nitrobenzene-d5

Concen: 0.02 ng

RT: 10.45 min Scan# 1601

Delta R.T. -0.16 min

Lab File: BE089640.D

Acq: 19 Feb 2015 23:51

Instrument :

BNA_E

ClientSampleId :

MDL-02-W

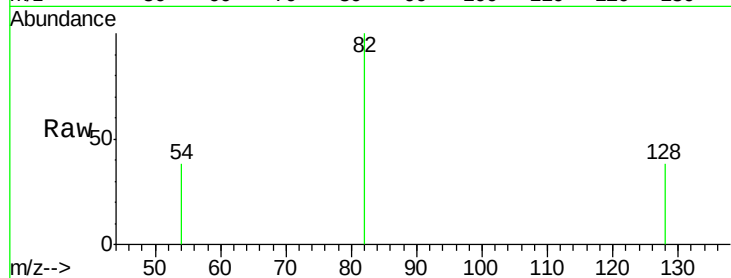
Tot Ion: 82 Resp: 136

Ion Ratio Lower Upper

82 100

128 37.6 35.5 53.3

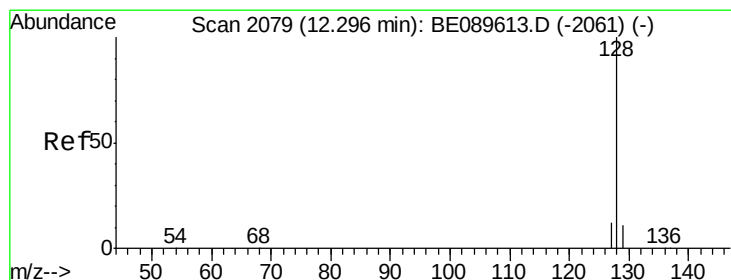
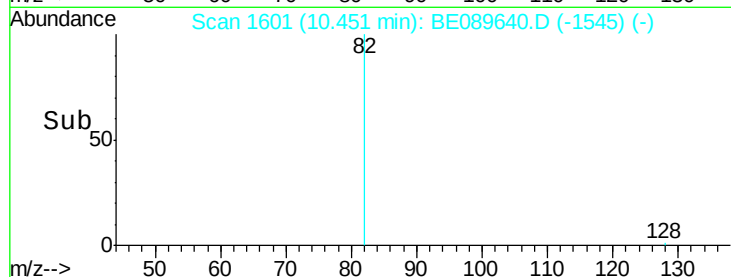
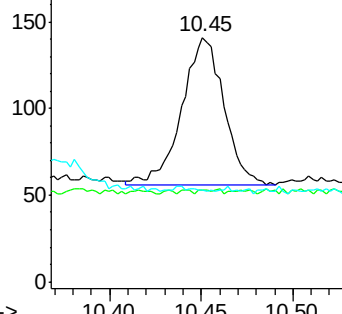
54 37.6 37.5 56.3



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: 0.15 ng

RT: 12.29 min Scan# 2078

Delta R.T. -0.01 min

Lab File: BE089640.D

Acq: 19 Feb 2015 23:51

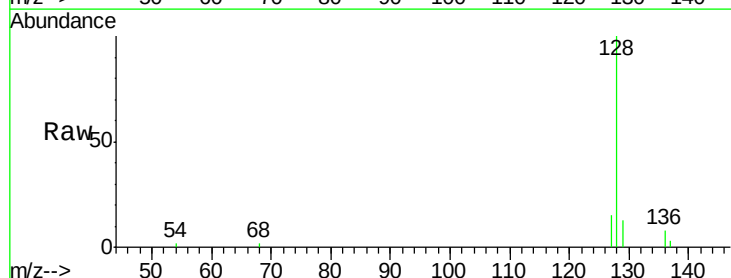
Tgt Ion: 128 Resp: 4940

Ion Ratio Lower Upper

128 100

129 12.8 8.9 13.3

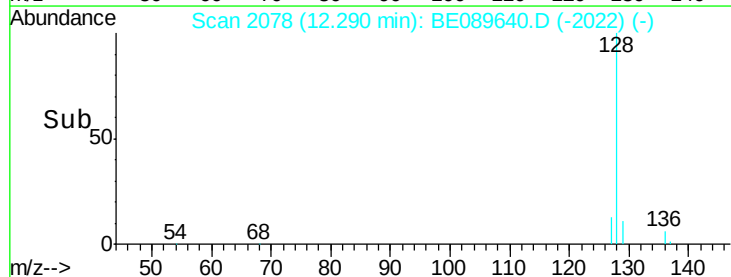
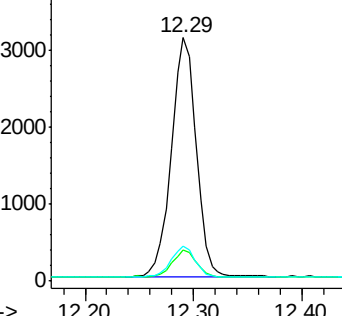
127 14.6 9.8 14.8

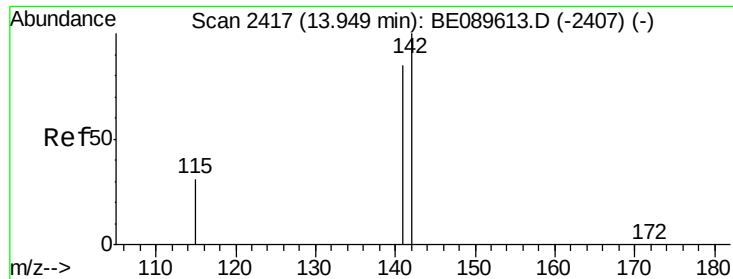


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E





#7

2-Methylnaphthalene

Concen: 0.15 ng

RT: 13.95 min Scan# 2417

Delta R.T. -0.00 min

Lab File: BE089640.D

Acq: 19 Feb 2015 23:51

Instrument :

BNA_E

ClientSampleId :

MDL-02-W

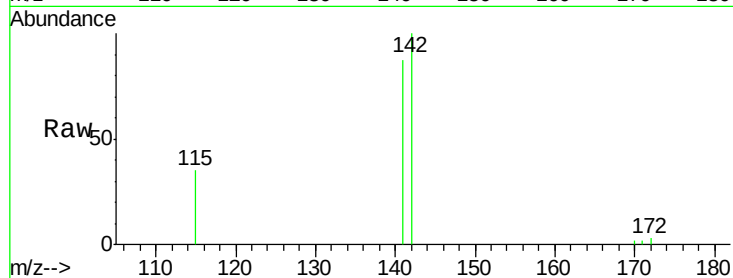
Tot Ion:142 Resp: 2965

Ion Ratio Lower Upper

142 100

141 87.3 68.3 102.5

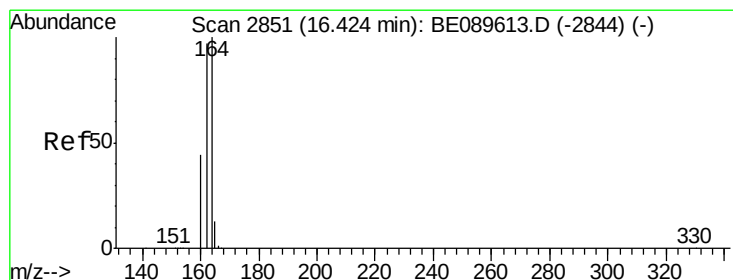
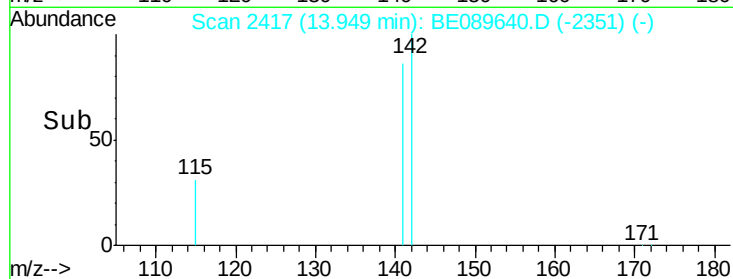
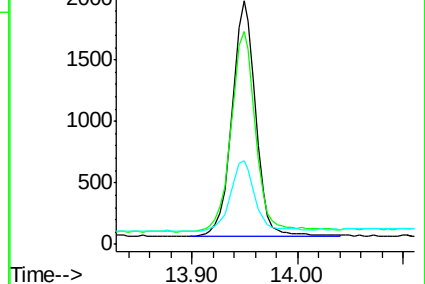
115 34.5 25.1 37.7



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# 2851

Delta R.T. 0.00 min

Lab File: BE089640.D

Acq: 19 Feb 2015 23:51

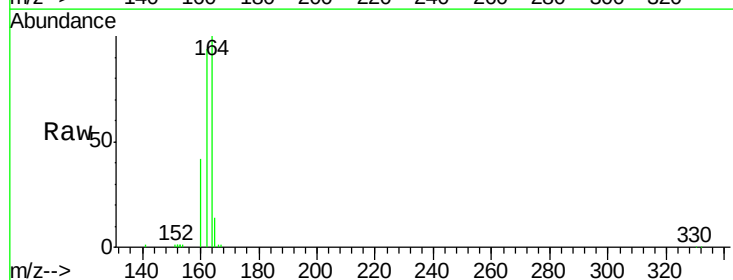
Tgt Ion:164 Resp: 74384

Ion Ratio Lower Upper

164 100

162 94.3 77.5 116.3

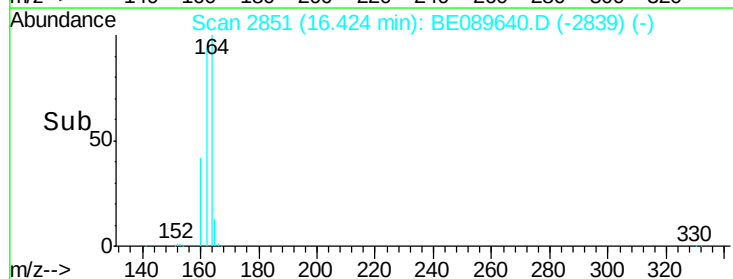
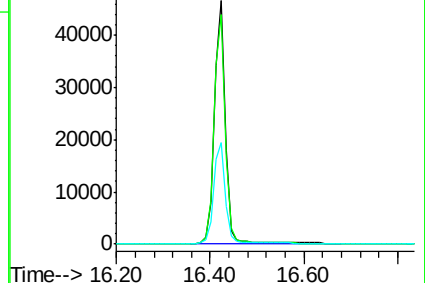
160 41.9 35.5 53.3

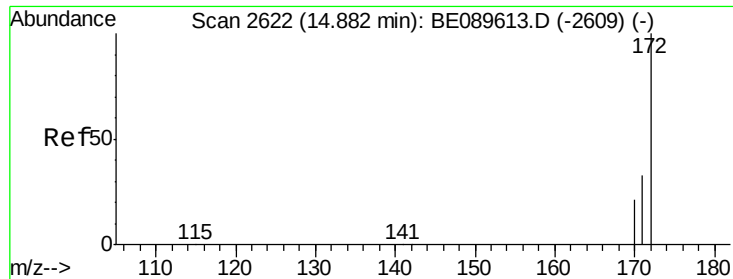


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#9

2-Fluorobiphenyl

Concen: 0.00 ng

RT: 14.88 min Scan# 2622

Delta R.T. -0.00 min

Lab File: BE089640.D

Acq: 19 Feb 2015 23:51

Instrument :

BNA_E

ClientSampleId :

MDL-02-W

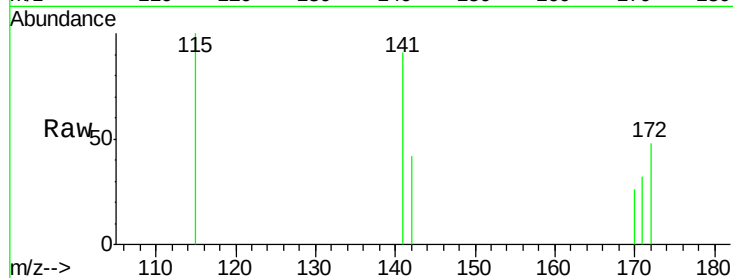
Tot Ion:172 Resp: 72

Ion Ratio Lower Upper

172 100

171 66.7 26.9 40.3#

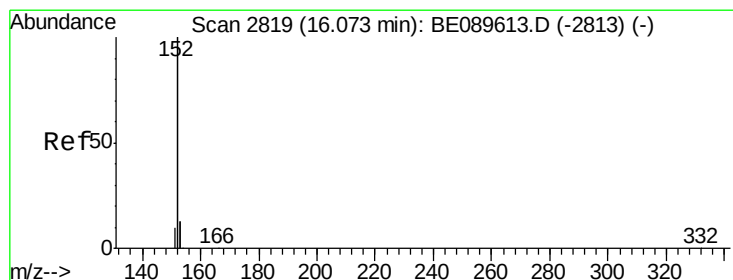
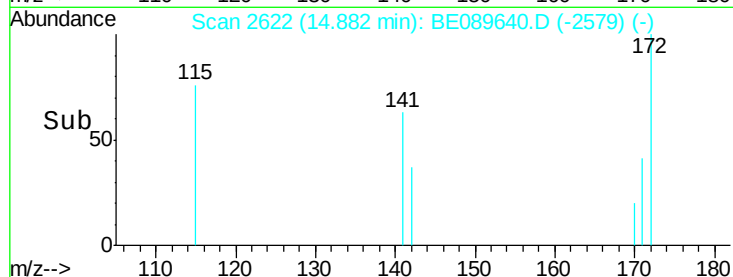
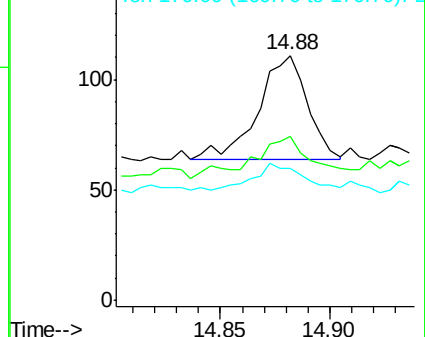
170 54.1 17.4 26.0#



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: 0.15 ng

RT: 16.07 min Scan# 2819

Delta R.T. 0.00 min

Lab File: BE089640.D

Acq: 19 Feb 2015 23:51

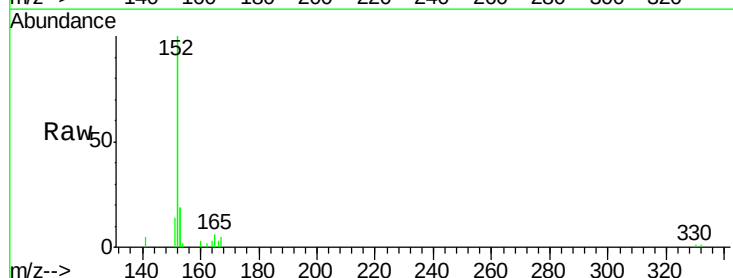
Tgt Ion:152 Resp: 17833

Ion Ratio Lower Upper

152 100

151 5.0 3.9 5.9

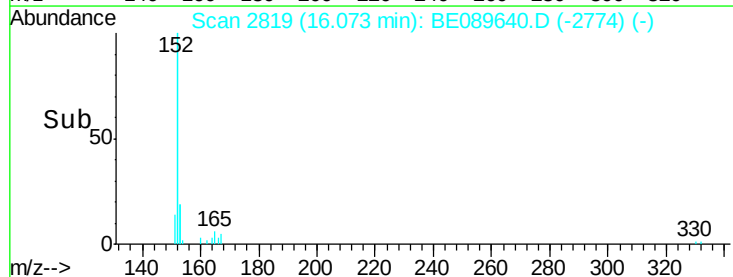
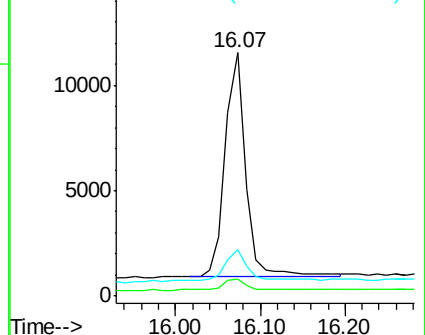
153 14.0 10.5 15.7

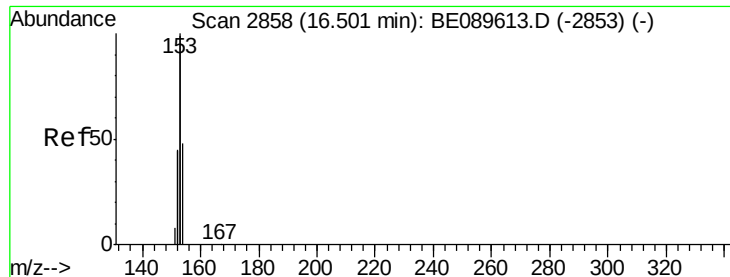


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#11

Acenaphthene

Concen: 0.15 ng

RT: 16.49 min Scan# 2857

Delta R.T. -0.01 min

Lab File: BE089640.D

Acq: 19 Feb 2015 23:51

Instrument :

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MDL-02-W

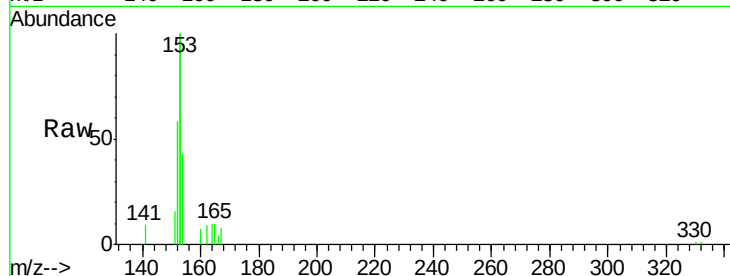
Tot Ion:154 Resp: 2983

Ion Ratio Lower Upper

154 100

153 463.1 348.9 523.3

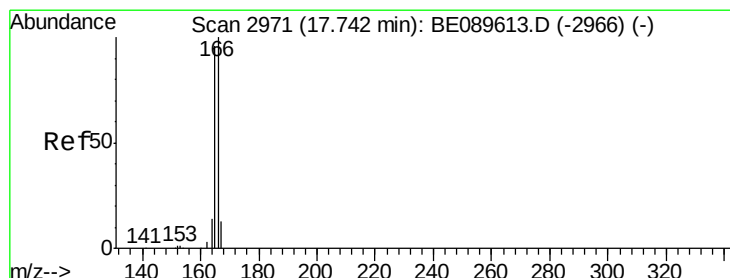
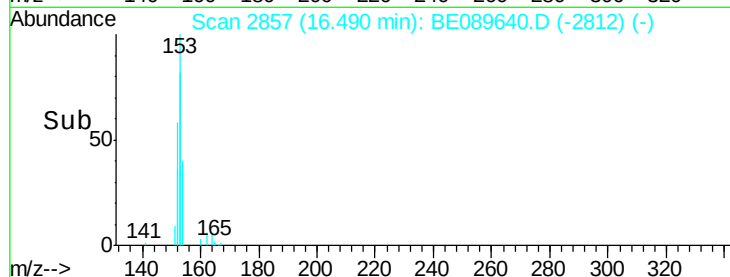
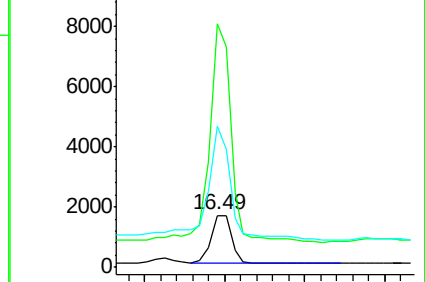
152 278.3 166.6 249.8#



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: 0.16 ng

RT: 17.74 min Scan# 2971

Delta R.T. 0.00 min

Lab File: BE089640.D

Acq: 19 Feb 2015 23:51

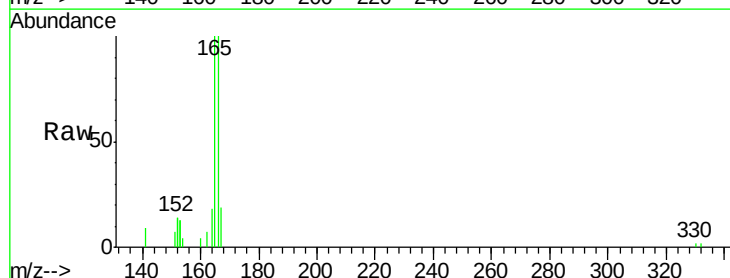
Tgt Ion:166 Resp: 3592

Ion Ratio Lower Upper

166 100

165 102.1 74.7 112.1

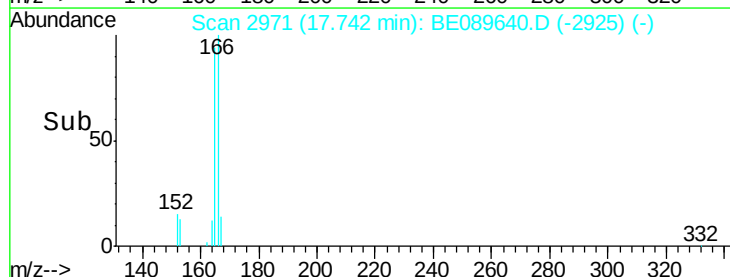
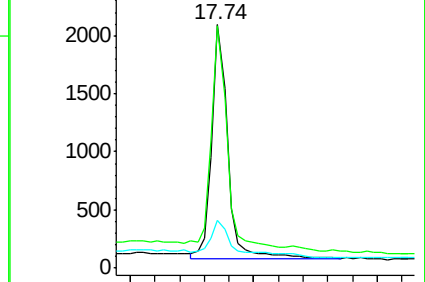
167 24.6 10.5 15.7#

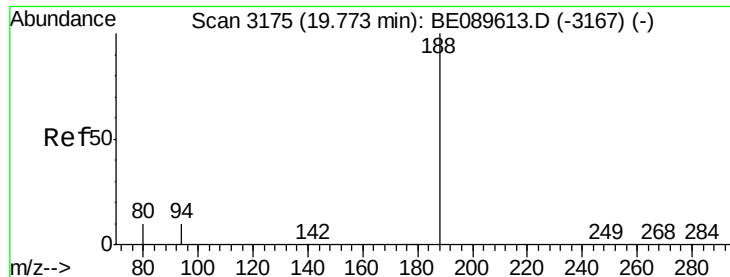


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

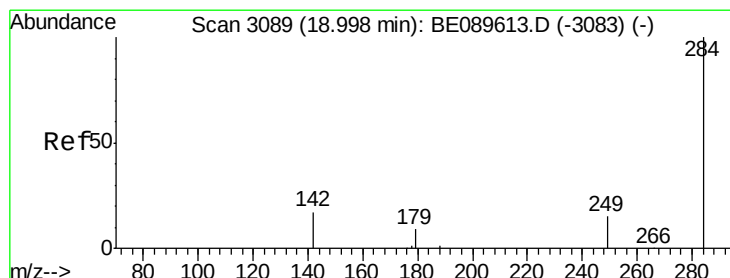
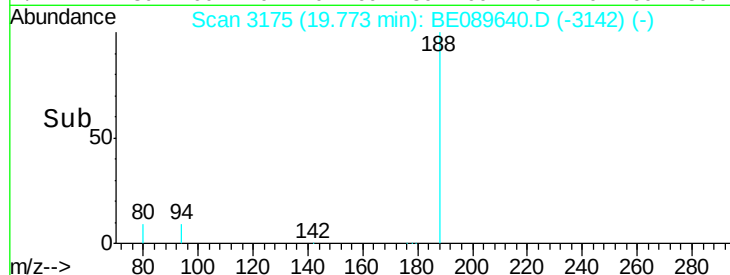
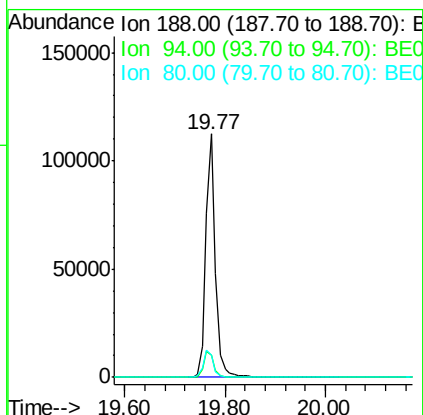
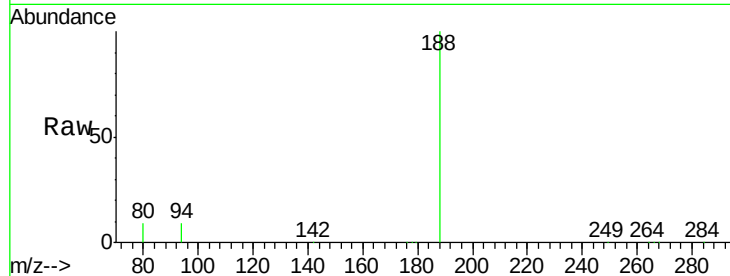




#13
Phenanthrene-d10
Concen: 5.00 ng
RT: 19.77 min Scan# 3175
Delta R.T. 0.00 min
Lab File: BE089640.D
Acq: 19 Feb 2015 23:51

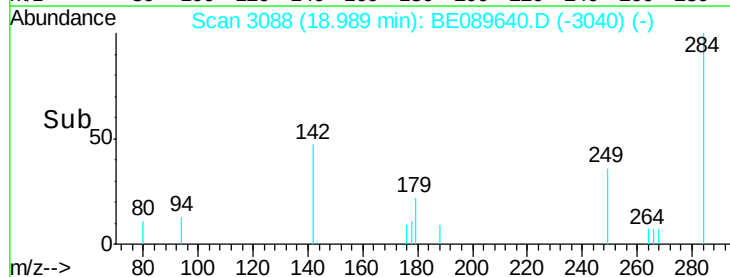
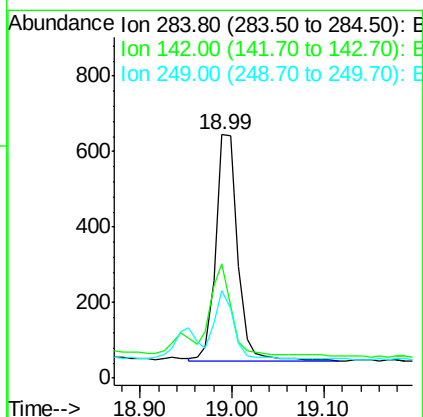
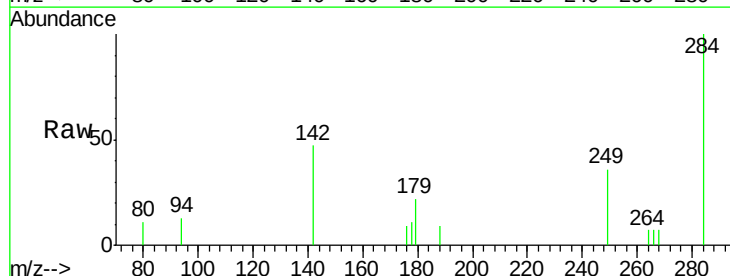
Instrument :
BNA_E
ClientSampleId :
MDL-02-W

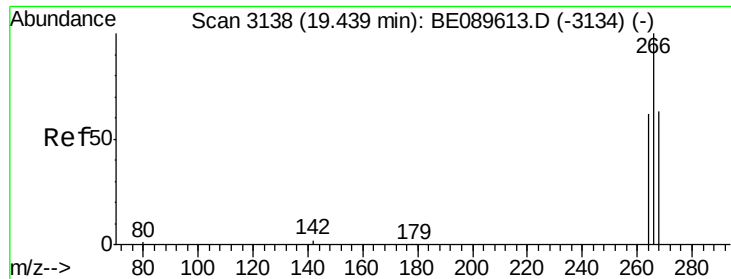
Tot Ion:188 Resp: 147377
Ion Ratio Lower Upper
188 100
94 9.4 8.2 12.4
80 9.1 8.1 12.1



#14
Hexachlorobenzene
Concen: 0.16 ng
RT: 18.99 min Scan# 3088
Delta R.T. -0.01 min
Lab File: BE089640.D
Acq: 19 Feb 2015 23:51

Tgt Ion:284 Resp: 983
Ion Ratio Lower Upper
284 100
142 37.2 32.3 48.5
249 25.9 22.3 33.5





#15

Pentachlorophenol

Concen: 0.04 ng

RT: 19.44 min Scan# 3138

Delta R.T. 0.00 min

Lab File: BE089640.D

Acq: 19 Feb 2015 23:51

Instrument :

BNA_E

ClientSampleId :

MDL-02-W

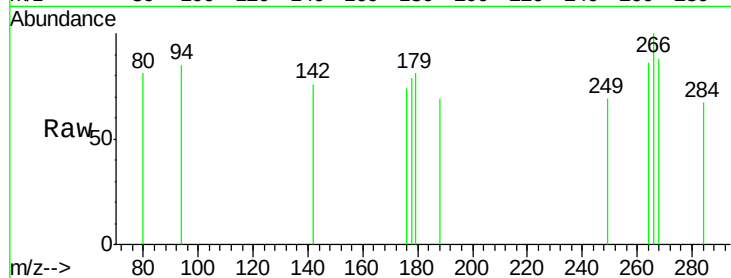
Tot Ion:266 Resp: 59

Ion Ratio Lower Upper

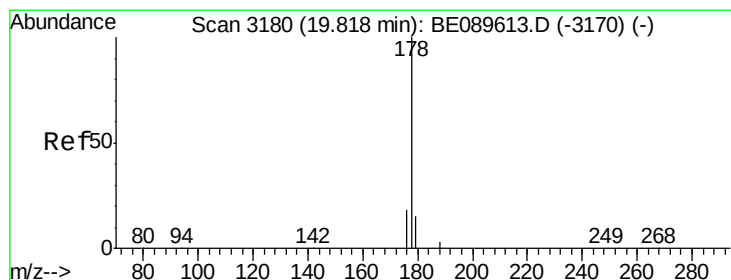
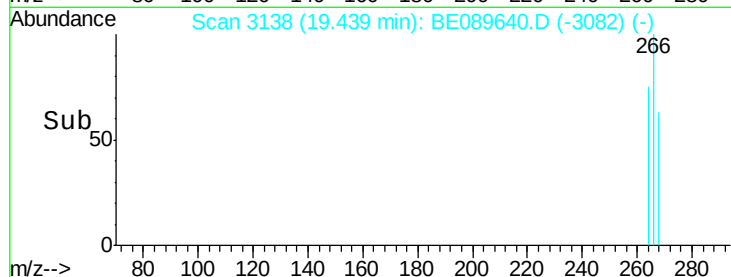
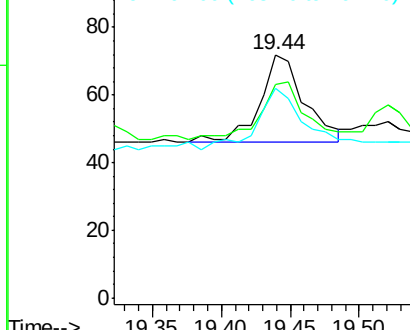
266 100

268 87.5 52.6 79.0#

264 86.1 51.8 77.8#



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



#16

Phenanthrene

Concen: 0.19 ng

RT: 19.81 min Scan# 3179

Delta R.T. -0.01 min

Lab File: BE089640.D

Acq: 19 Feb 2015 23:51

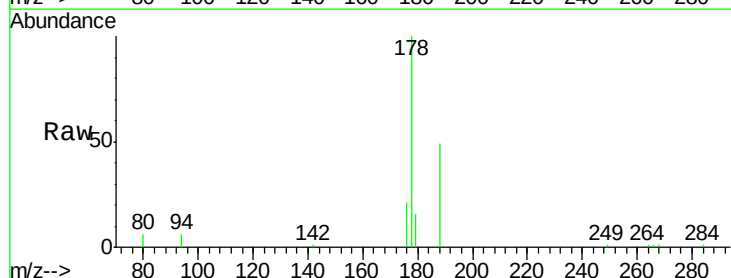
Tgt Ion:178 Resp: 6742

Ion Ratio Lower Upper

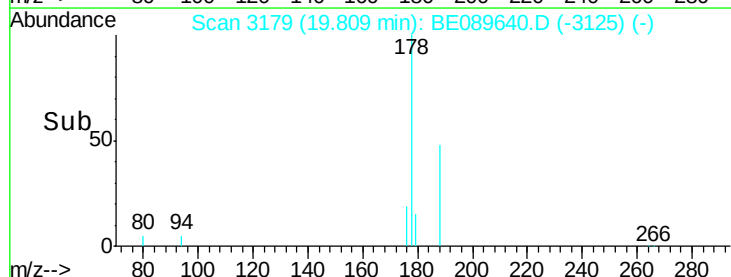
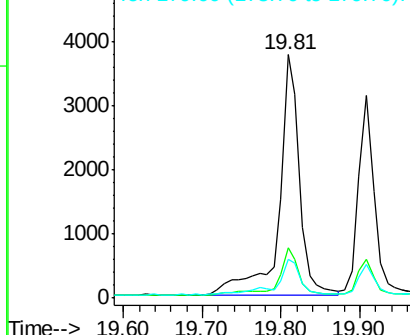
178 100

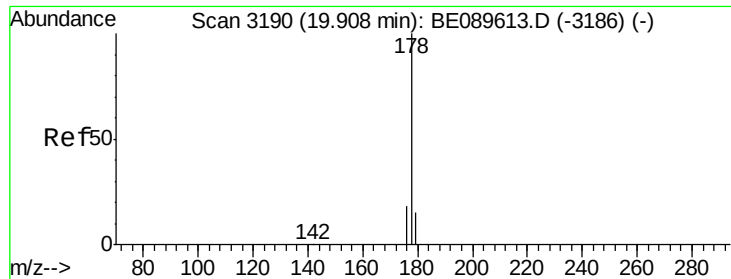
176 18.8 15.1 22.7

179 16.5 12.3 18.5



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

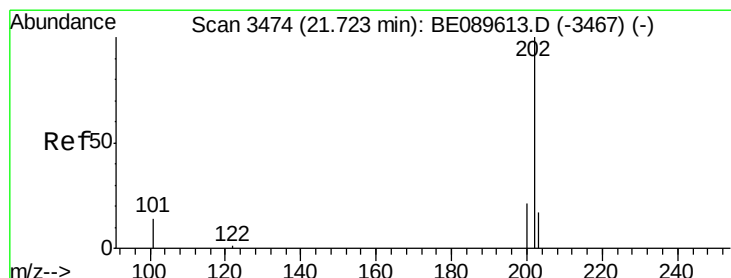
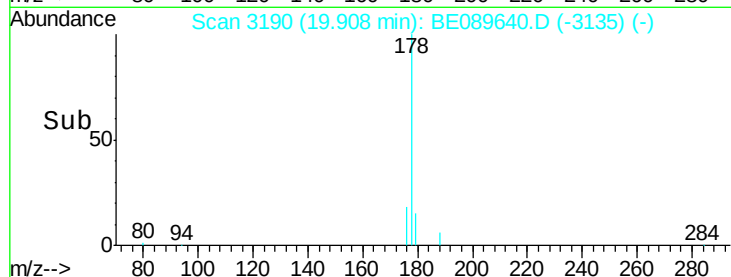
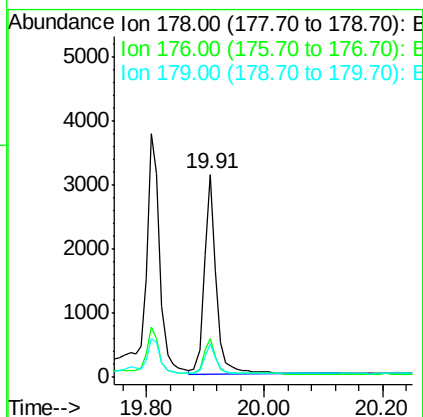
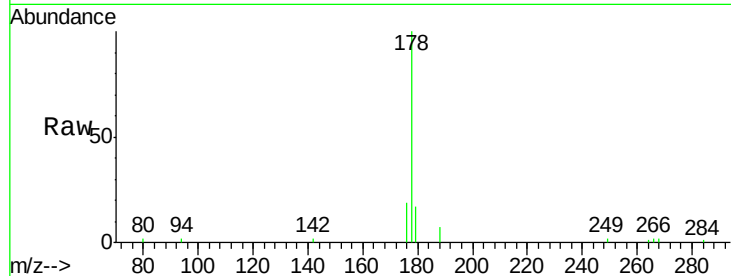




#17
 Anthracene
 Concen: 0.14 ng
 RT: 19.91 min Scan# 3190
 Delta R.T. 0.00 min
 Lab File: BE089640.D
 Acq: 19 Feb 2015 23:51

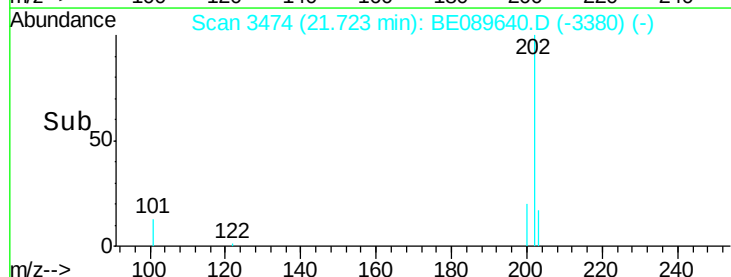
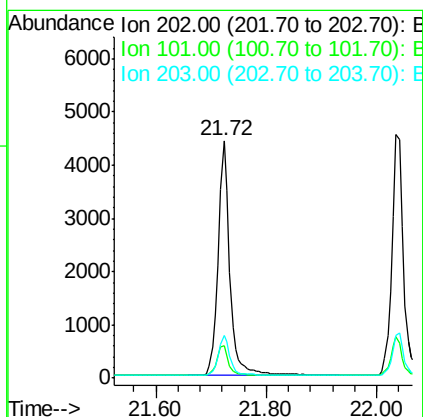
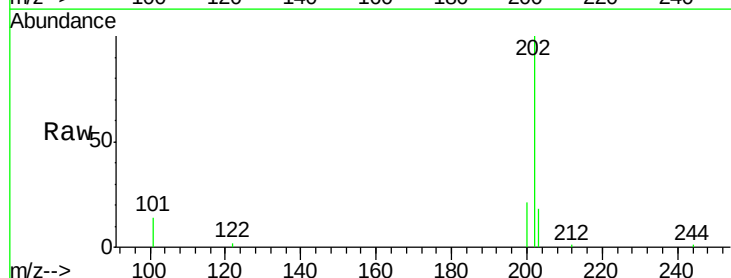
Instrument :
 BNA_E
 ClientSampleId :
 MDL-02-W

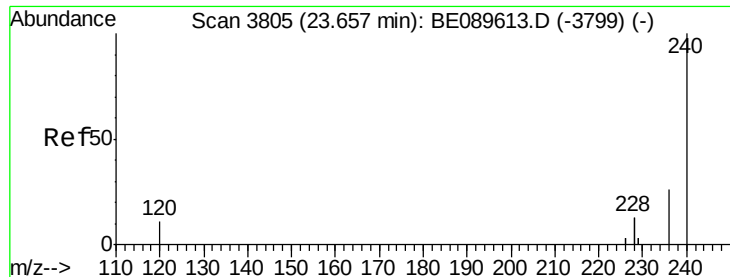
Tot Ion:178 Resp: 4418
 Ion Ratio Lower Upper
 178 100
 176 18.2 14.6 22.0
 179 13.9 12.3 18.5



#18
 Fluoranthene
 Concen: 0.19 ng
 RT: 21.72 min Scan# 3474
 Delta R.T. 0.00 min
 Lab File: BE089640.D
 Acq: 19 Feb 2015 23:51

Tgt Ion:202 Resp: 6547
 Ion Ratio Lower Upper
 202 100
 101 12.8 10.4 15.6
 203 16.7 13.9 20.9





#19

Chrysene-d12

Concen: 5.00 ng

RT: 23.66 min Scan# 3805

Delta R.T. -0.00 min

Lab File: BE089640.D

Acq: 19 Feb 2015 23:51

Instrument :

BNA_E

ClientSampleId :

MDL-02-W

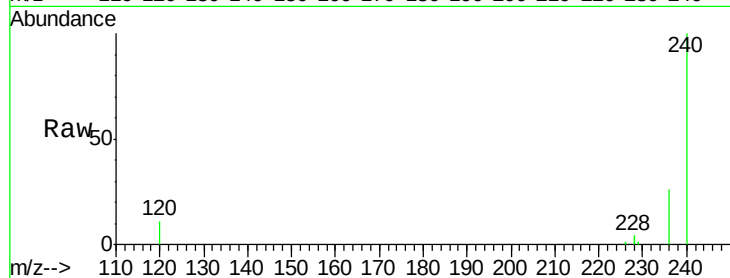
Tot Ion:240 Resp: 145356

Ion Ratio Lower Upper

240 100

120 11.4 9.0 13.4

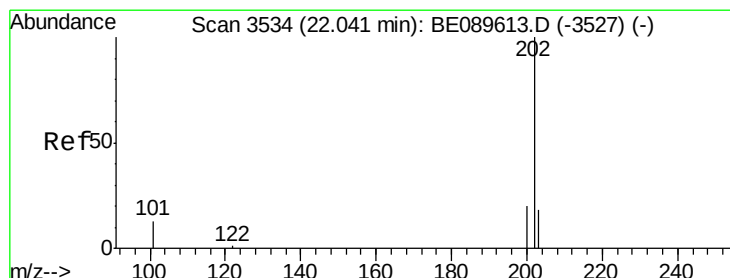
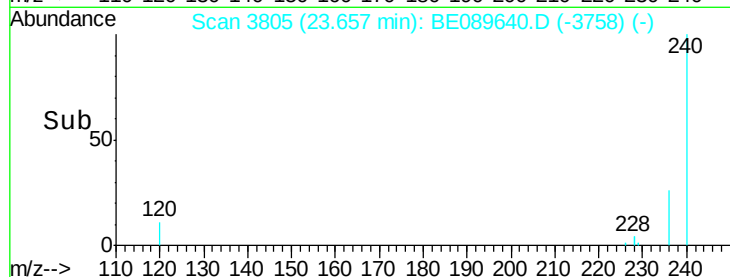
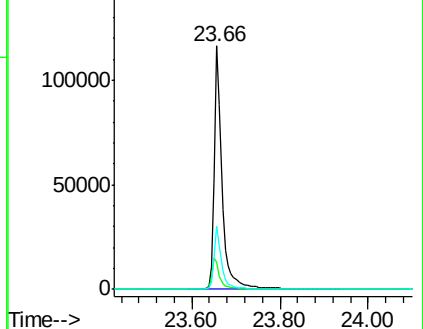
236 26.0 21.0 31.6



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: 0.19 ng

RT: 22.04 min Scan# 3533

Delta R.T. -0.01 min

Lab File: BE089640.D

Acq: 19 Feb 2015 23:51

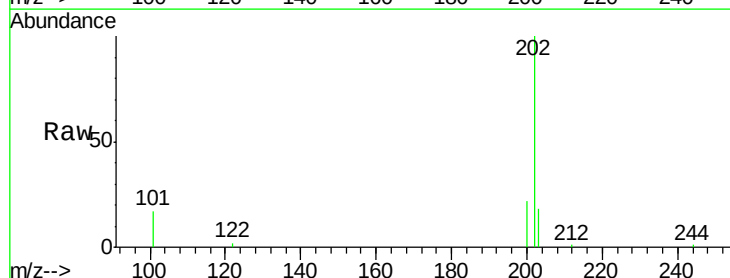
Tgt Ion:202 Resp: 6704

Ion Ratio Lower Upper

202 100

200 19.8 16.3 24.5

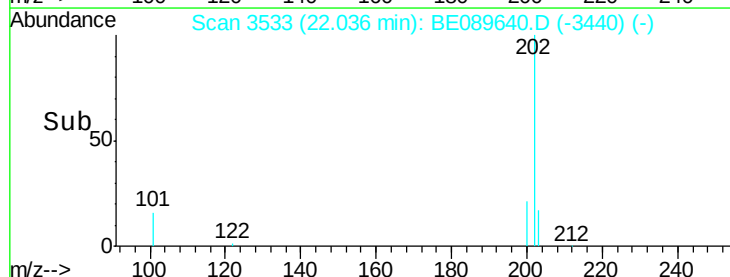
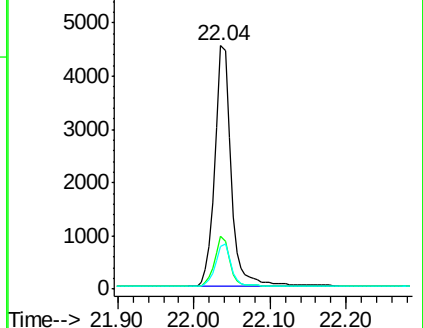
203 17.6 13.8 20.8

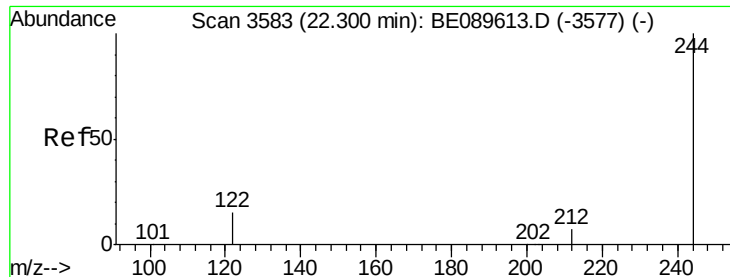


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#21

Terphenyl-d14

Concen: 0.20 ng

RT: 22.30 min Scan# 3582

Delta R.T. -0.01 min

Lab File: BE089640.D

Acq: 19 Feb 2015 23:51

Instrument :

BNA_E

ClientSampled :

MDL-02-W

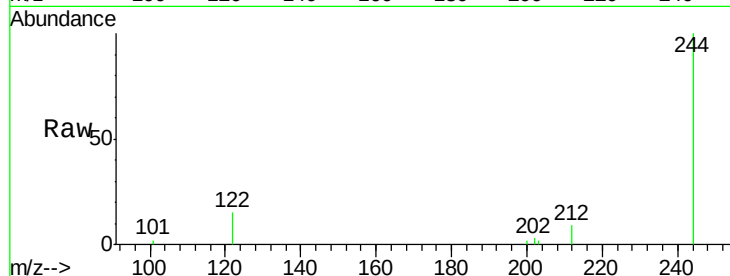
Tot Ion:244 Resp: 4185

Ion Ratio Lower Upper

244 100

212 8.6 5.8 8.8

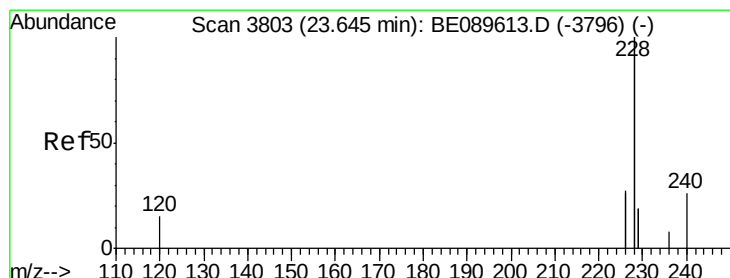
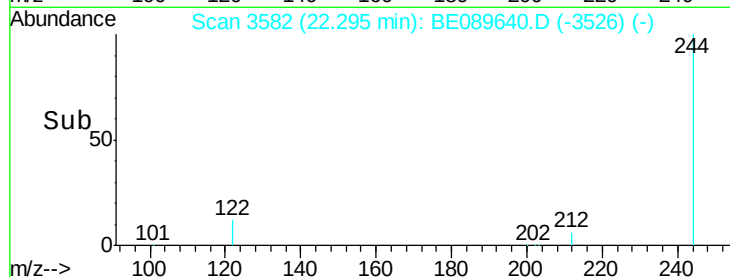
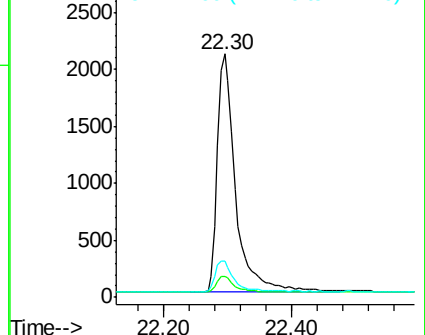
122 14.7 11.8 17.8



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: 0.15 ng

RT: 23.65 min Scan# 3804

Delta R.T. 0.01 min

Lab File: BE089640.D

Acq: 19 Feb 2015 23:51

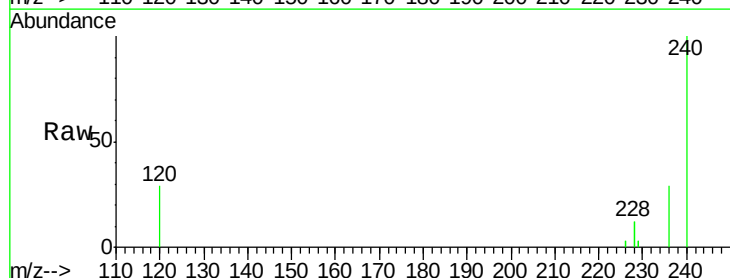
Tgt Ion:228 Resp: 19494

Ion Ratio Lower Upper

228 100

226 24.7 21.2 31.8

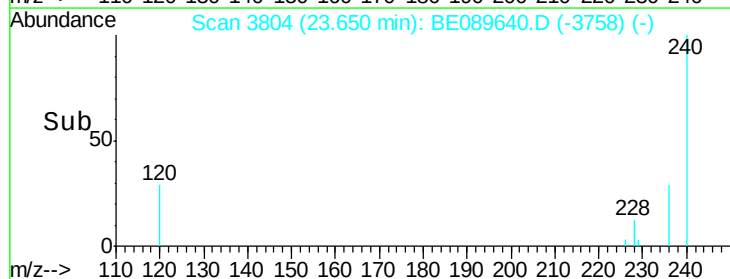
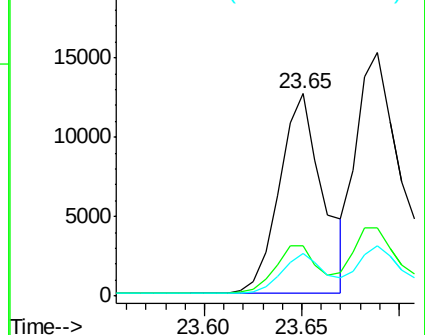
229 21.2 15.2 22.8

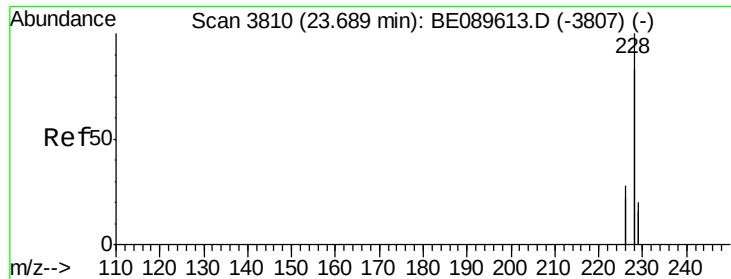


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#23

Chrysene

Concen: 0.21 ng

RT: 23.69 min Scan# 3810

Delta R.T. -0.00 min

Lab File: BE089640.D

Acq: 19 Feb 2015 23:51

Instrument :

BNA_E

ClientSampleId :

MDL-02-W

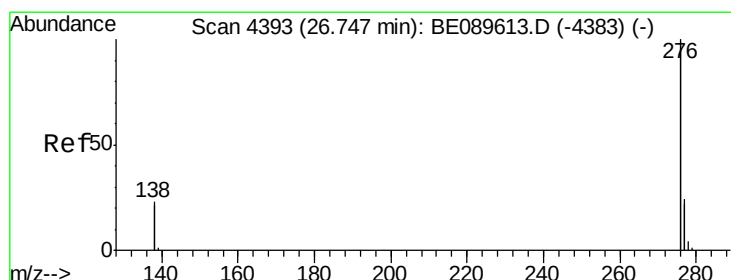
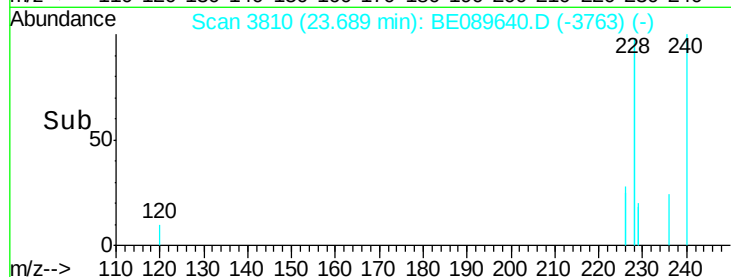
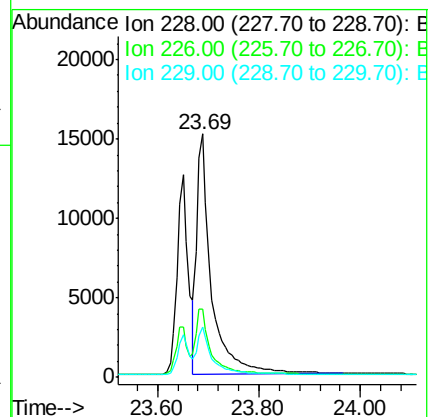
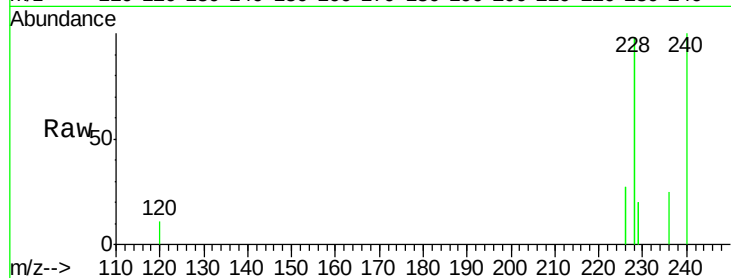
Tot Ion:228 Resp: 30183

Ion Ratio Lower Upper

228 100

226 28.1 22.2 33.4

229 20.7 16.0 24.0



#24

Indeno(1,2,3-cd)pyrene

Concen: 0.22 ng

RT: 26.74 min Scan# 4392

Delta R.T. -0.01 min

Lab File: BE089640.D

Acq: 19 Feb 2015 23:51

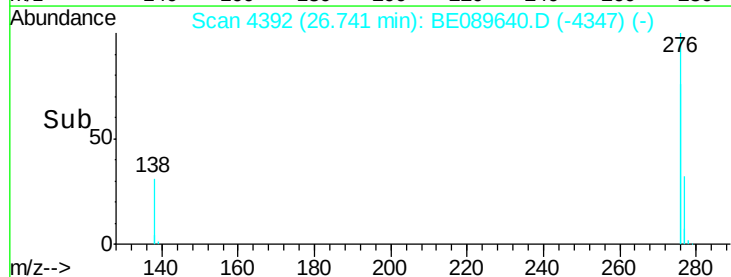
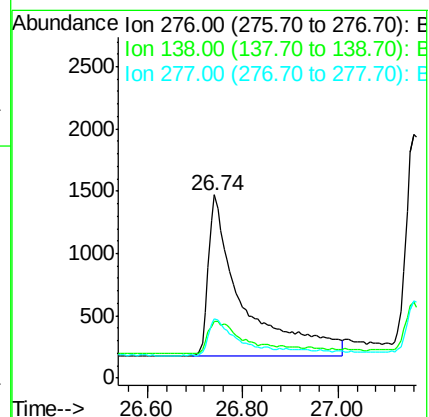
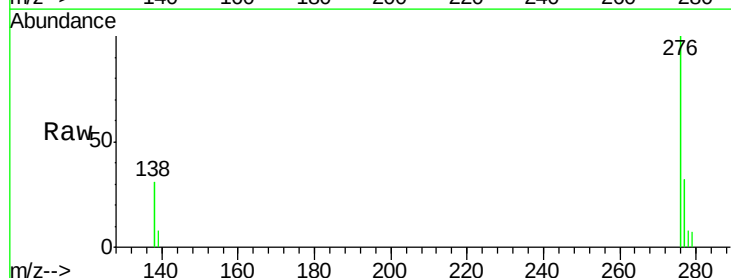
Tgt Ion:276 Resp: 6448

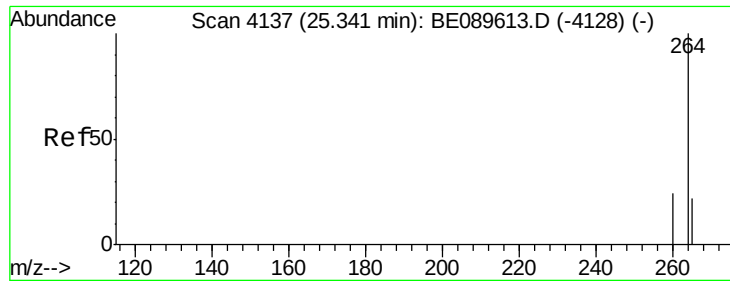
Ion Ratio Lower Upper

276 100

138 20.3 21.4 32.2#

277 19.7 19.9 29.9#

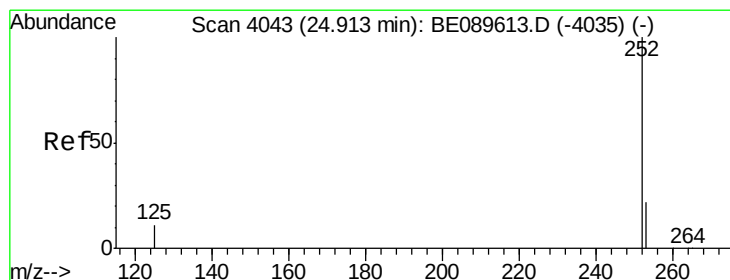
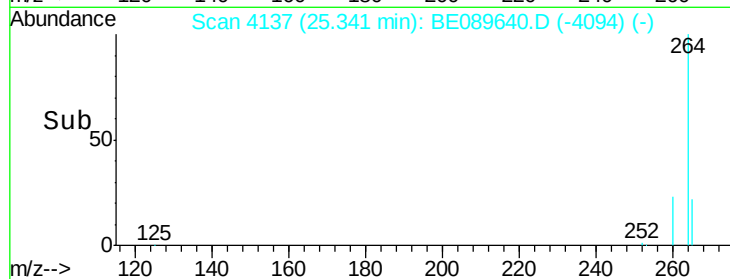
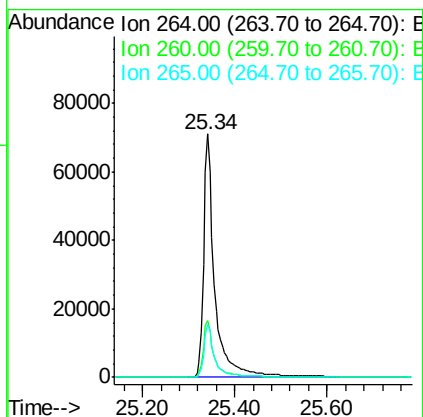
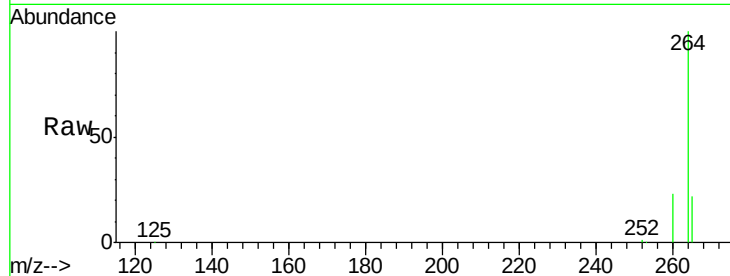




#25
Pervlene-d12
Concen: 5.00 ng
RT: 25.34 min Scan# 4137
Delta R.T. 0.00 min
Lab File: BE089640.D
Acq: 19 Feb 2015 23:51

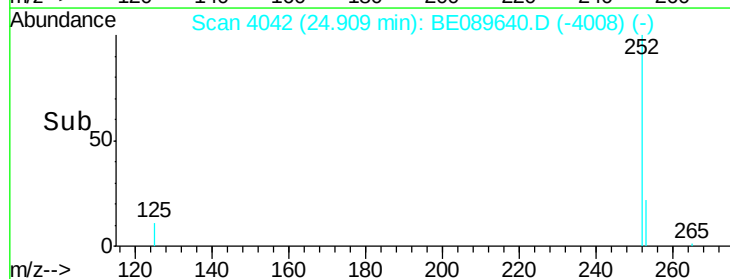
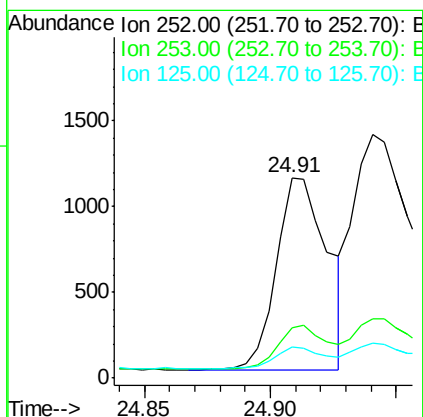
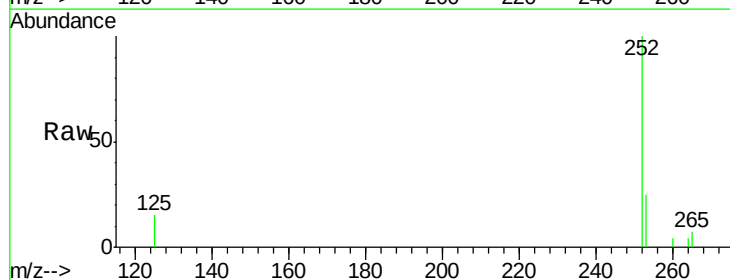
Instrument :
BNA_E
ClientSampleId :
MDL-02-W

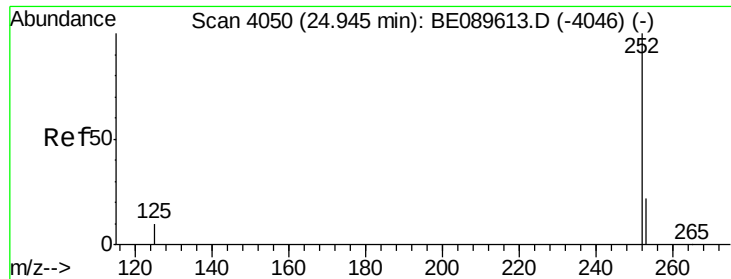
Tot Ion:264 Resp: 118330
Ion Ratio Lower Upper
264 100
260 23.5 19.0 28.6
265 21.7 17.4 26.0



#26
Benzo(b)fluoranthene
Concen: 0.32 ng
RT: 24.91 min Scan# 4042
Delta R.T. -0.00 min
Lab File: BE089640.D
Acq: 19 Feb 2015 23:51

Tgt Ion:252 Resp: 1566
Ion Ratio Lower Upper
252 100
253 25.2 17.6 26.4
125 15.2 8.8 13.2#





#27

Benzo(k)fluoranthene

Concen: 0.12 ng

RT: 24.94 min Scan# 4049

Delta R.T. -0.00 min

Lab File: BE089640.D

Acq: 19 Feb 2015 23:51

Instrument :

BNA_E

ClientSampleId :

MDL-02-W

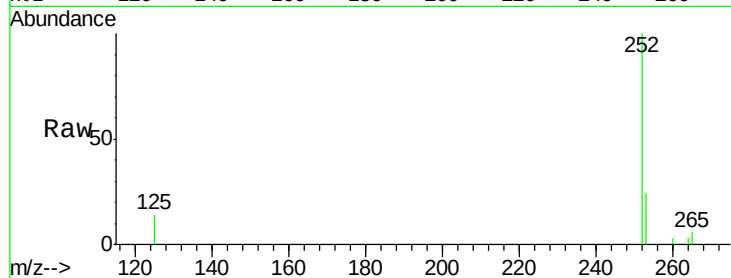
Tot Ion:252 Resp: 4049

Ion Ratio Lower Upper

252 100

253 24.4 17.7 26.5

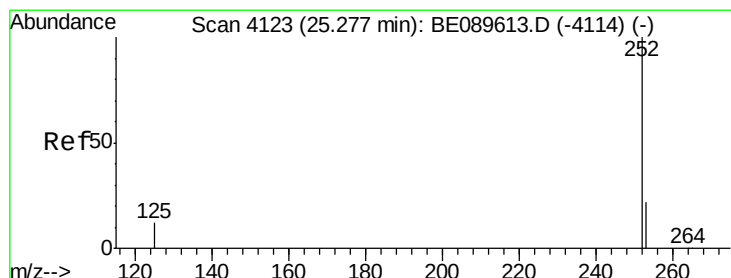
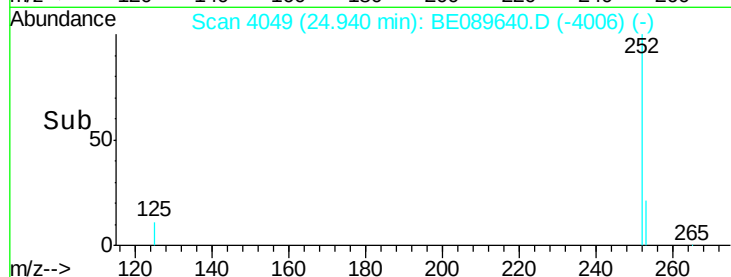
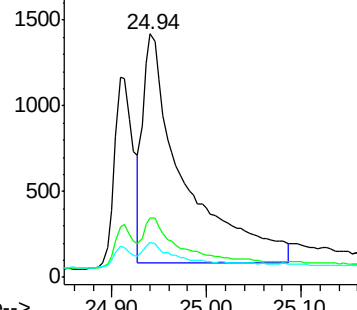
125 14.4 8.8 13.2#



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: 0.29 ng

RT: 25.27 min Scan# 4122

Delta R.T. -0.00 min

Lab File: BE089640.D

Acq: 19 Feb 2015 23:51

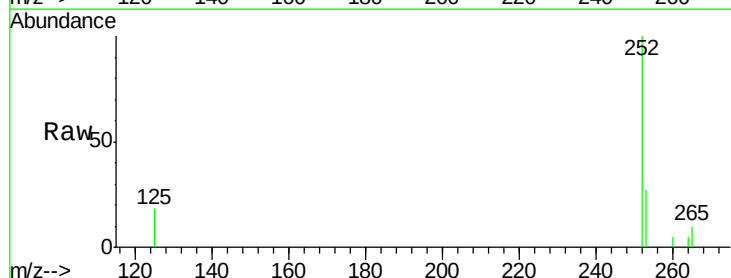
Tgt Ion:252 Resp: 1442

Ion Ratio Lower Upper

252 100

253 26.6 18.1 27.1

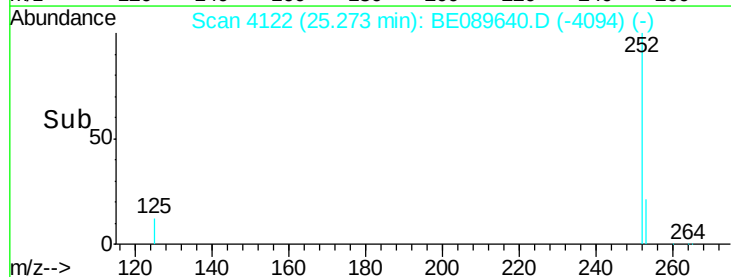
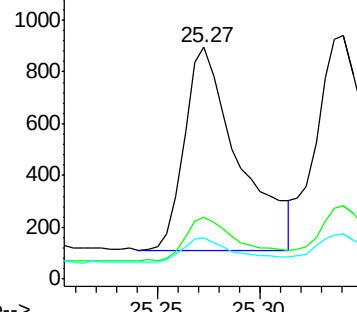
125 17.9 9.6 14.4#

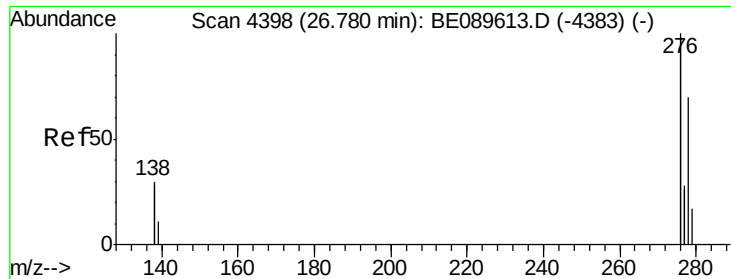


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#29

Dibenzo(a,h)anthracene

Concen: 0.27 ng

RT: 26.77 min Scan# 4397

Delta R.T. -0.01 min

Lab File: BE089640.D

Acq: 19 Feb 2015 23:51

Instrument :

BNA_E

ClientSampleId :

MDL-02-W

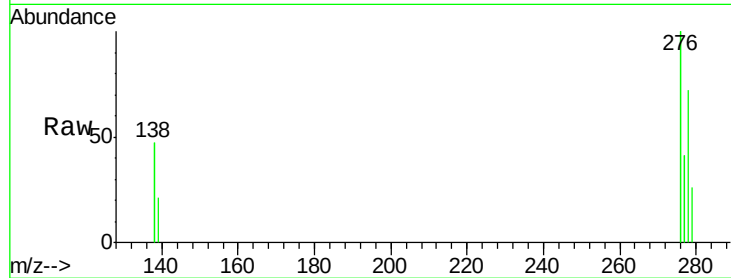
Tot Ion:278 Resp: 1061

Ion Ratio Lower Upper

278 100

139 28.9 13.7 20.5#

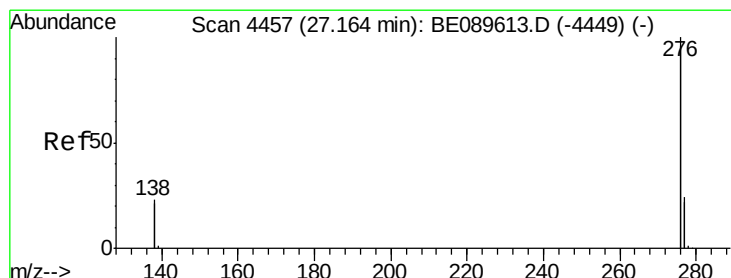
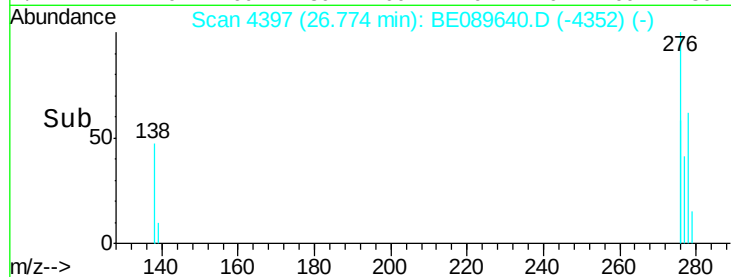
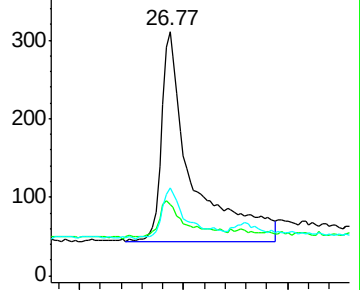
279 36.0 19.7 29.5#



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: 0.21 ng

RT: 27.16 min Scan# 4456

Delta R.T. -0.01 min

Lab File: BE089640.D

Acq: 19 Feb 2015 23:51

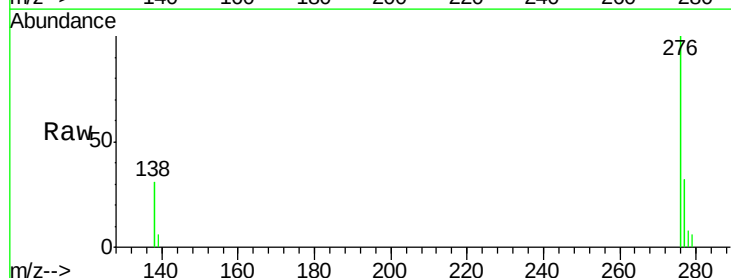
Tgt Ion:276 Resp: 8137

Ion Ratio Lower Upper

276 100

277 31.8 19.1 28.7#

138 31.4 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

