

Data Path : Z:\HPCHEM1\BNA E\DATA\BE021815\
 Data File : BE089641.D
 Acq On : 20 Feb 2015 00:30
 Operator : TP/IZ
 Sample : MDL-03-W
 Misc : MDL-WATER-0.2/0.4
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 MDL-03-W

Quant Time: Feb 20 02:30:07 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

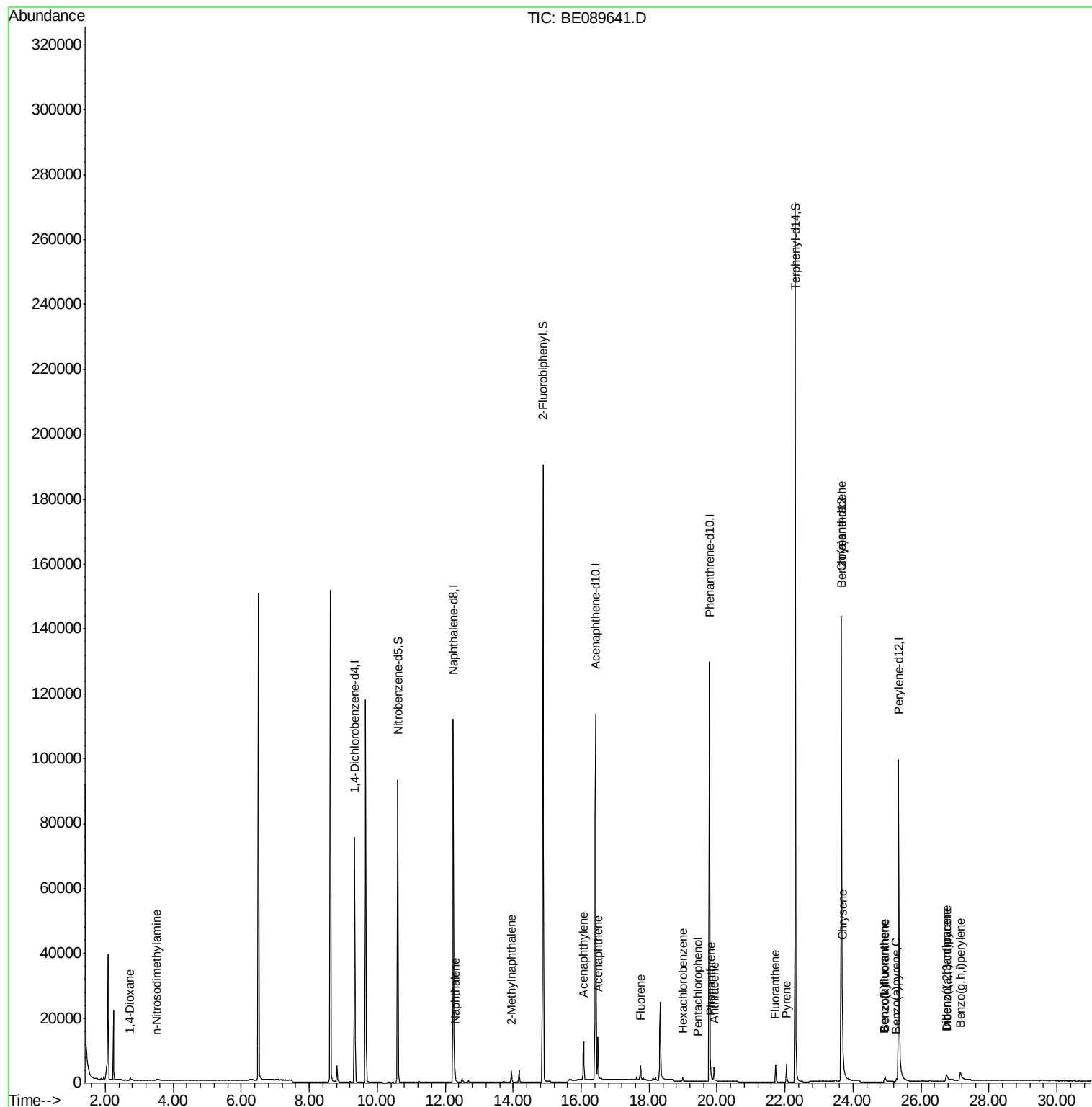
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.34	152	34827	5.00	ng	0.00
4) Naphthalene-d8	12.24	136	137579	5.00	ng	0.00
8) Acenaphthene-d10	16.42	164	69953	5.00	ng	0.00
13) Phenanthrene-d10	19.77	188	137179	5.00	ng	0.00
19) Chrysene-d12	23.66	240	132539	5.00	ng	0.00
25) Perylene-d12	25.34	264	111336	5.00	ng	0.00
System Monitoring Compounds						
5) Nitrobenzene-d5	10.61	82	66950	11.19	ng	0.00
9) 2-Fluorobiphenyl	14.88	172	177515	9.47	ng	0.00
21) Terphenyl-d14	22.30	244	229102	12.02	ng	0.00
Target Compounds						Ovalue
2) 1,4-Dioxane	2.73	88	651	0.15	ng	# 86
3) n-Nitrosodimethylamine	3.50	42	500m	0.12	ng	
6) Naphthalene	12.29	128	5002	0.16	ng	96
7) 2-Methylnaphthalene	13.95	142	2847	0.15	ng	99
10) Acenaphthylene	16.07	152	15877	0.14	ng	99
11) Acenaphthene	16.49	154	2774	0.15	ng	94
12) Fluorene	17.74	166	3327	0.16	ng	98
14) Hexachlorobenzene	19.00	284	996	0.17	ng	97
15) Pentachlorophenol	19.44	266	92	0.09	ng	# 74
16) Phenanthrene	19.81	178	5483	0.16	ng	98
17) Anthracene	19.91	178	4163	0.15	ng	99
18) Fluoranthene	21.72	202	4660	0.15	ng	100
20) Pyrene	22.04	202	4917	0.15	ng	100
22) Benzo(a)anthracene	23.65	228	16436	0.14	ng	98
23) Chrysene	23.68	228	25317	0.19	ng	97
24) Indeno(1,2,3-cd)pyrene	26.74	276	6673	0.23	ng	# 87
26) Benzo(b)fluoranthene	24.91	252	1304	0.32	ng	# 90
27) Benzo(k)fluoranthene	24.94	252	4100m	0.13	ng	
28) Benzo(a)pyrene	25.27	252	1439	0.30	ng	# 88
29) Dibenzo(a,h)anthracene	26.77	278	867	0.27	ng	# 74
30) Benzo(g,h,i)perylene	27.16	276	8158	0.21	ng	# 86

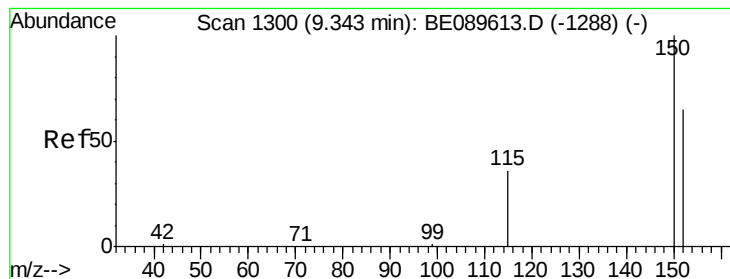
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: BE089641.D

Acq: 20 Feb 2015 00:30

Instrument :

BNA_E

ClientSampleId :

MDL-03-W

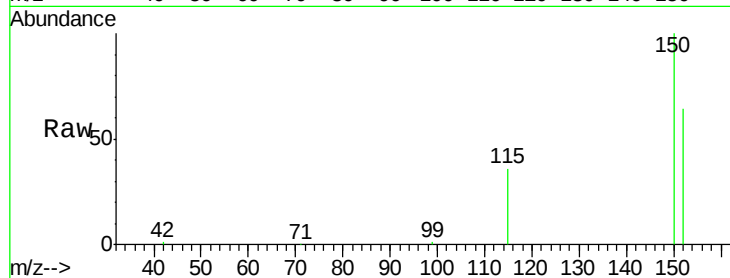
Tot Ion:152 Resp: 34827

Ion Ratio Lower Upper

152 100

150 157.2 122.4 183.6

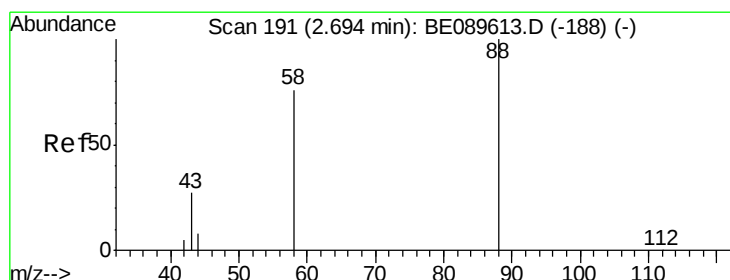
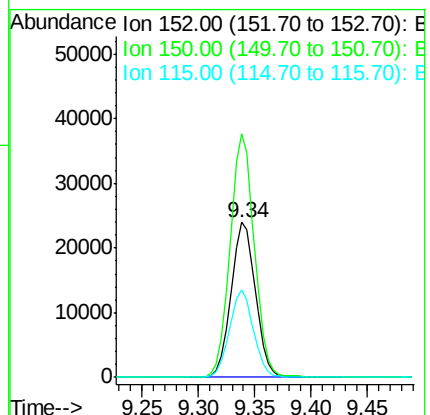
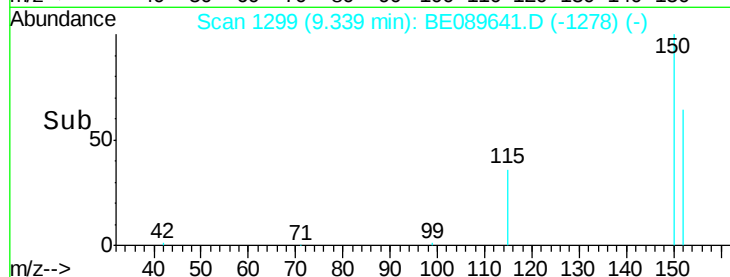
115 56.1 44.2 66.2



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: 0.15 ng

RT: 2.73 min Scan# 196

Delta R.T. 0.04 min

Lab File: BE089641.D

Acq: 20 Feb 2015 00:30

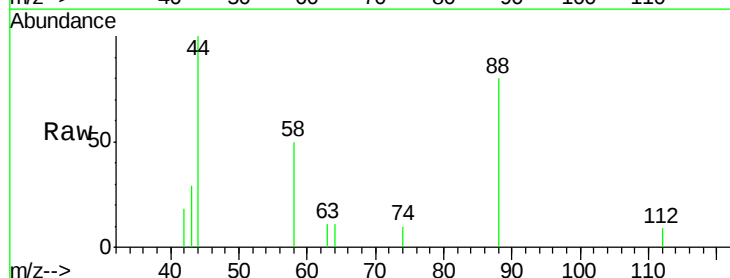
Tgt Ion: 88 Resp: 651

Ion Ratio Lower Upper

88 100

58 68.0 54.6 81.8

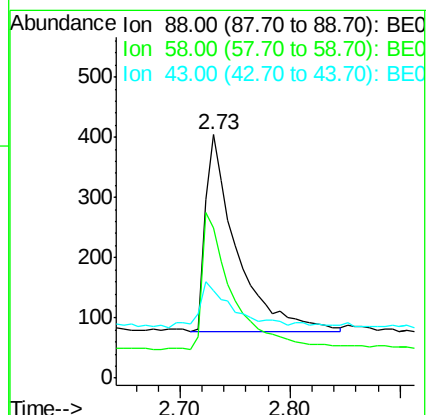
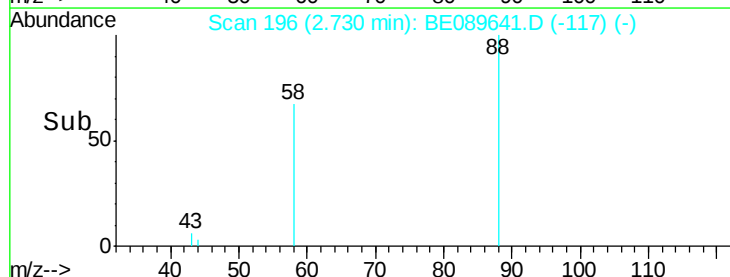
43 0.0 20.6 30.8#

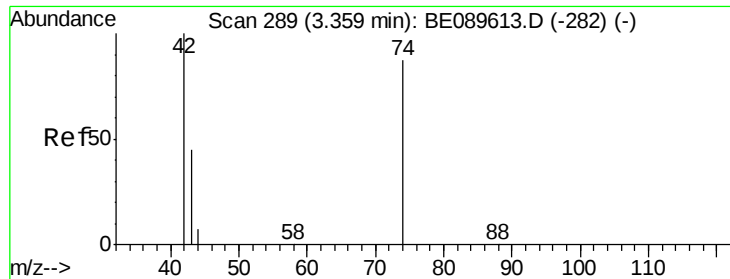


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0



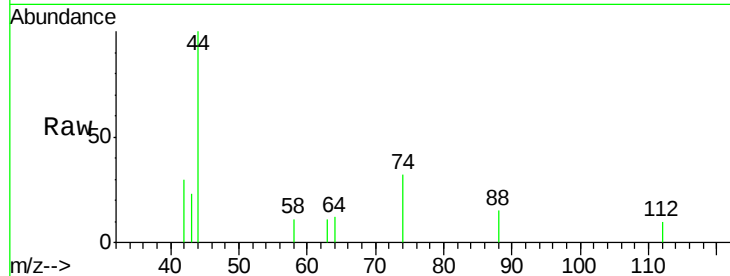


#3

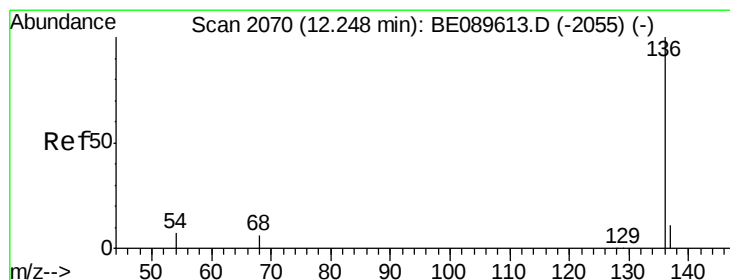
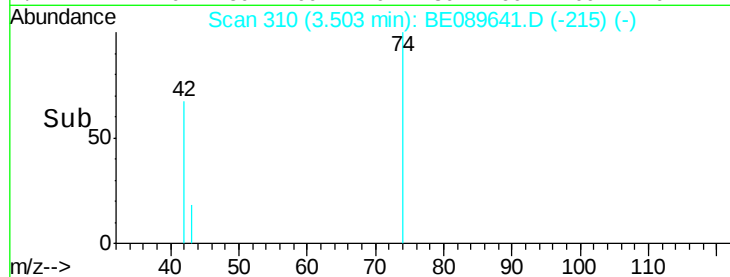
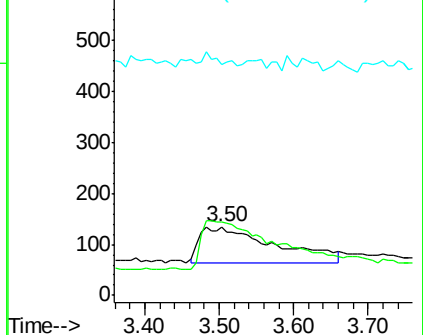
n-Nitrosodimethylamine
 Concen: 0.12 ng/ml
 RT: 3.50 min Scan# 310
 Delta R.T. 0.14 min
 Lab File: BE089641.D
 Acq: 20 Feb 2015 00:30

Instrument :
 BNA_E
 ClientSampleID :
 MDL-03-W

Tot Ion: 42 Resp: 500
 Ion Ratio Lower Upper
 42 100
 74 0.0 121.4 182.0#
 44 17.0 4.5 6.7#



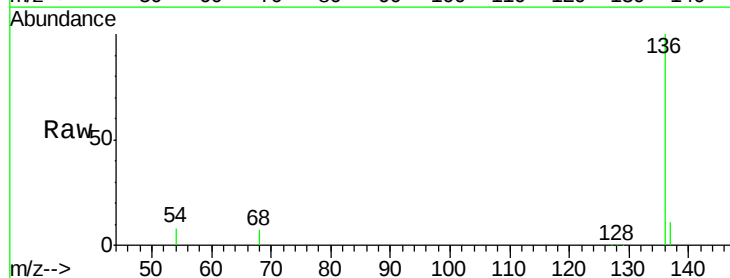
Abundance Ion 42.00 (41.70 to 42.70): BE0
 Ion 74.00 (73.70 to 74.70): BE0
 Ion 44.00 (43.70 to 44.70): BE0



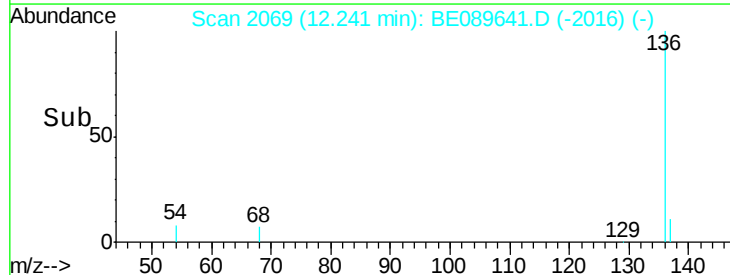
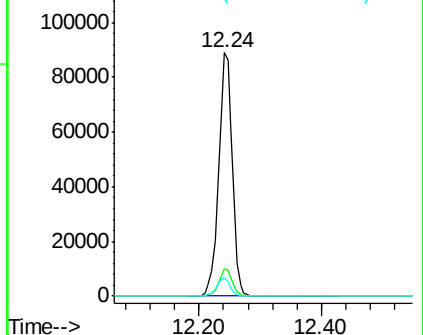
#4

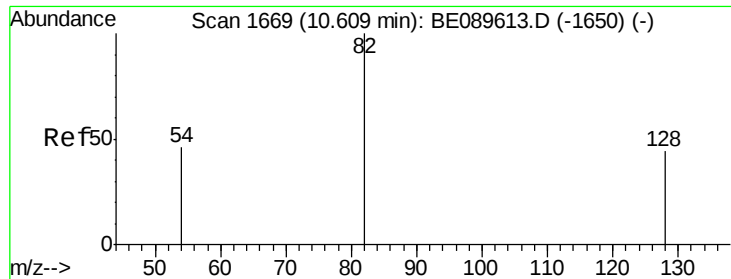
Naphthalene-d8
 Concen: 5.00 ng
 RT: 12.24 min Scan# 2069
 Delta R.T. -0.01 min
 Lab File: BE089641.D
 Acq: 20 Feb 2015 00:30

Tgt Ion: 136 Resp: 137579
 Ion Ratio Lower Upper
 136 100
 137 11.0 8.9 13.3
 54 7.6 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: 11.19 ng

RT: 10.61 min Scan# 1668

Delta R.T. -0.00 min

Lab File: BE089641.D

Acq: 20 Feb 2015 00:30

Instrument :

BNA_E

ClientSampleId :

MDL-03-W

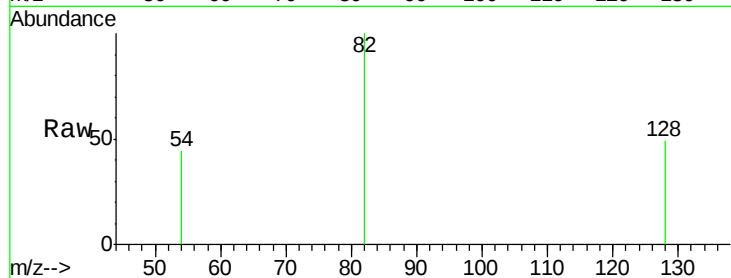
Tot Ion: 82 Resp: 66950

Ion Ratio Lower Upper

82 100

128 48.6 35.5 53.3

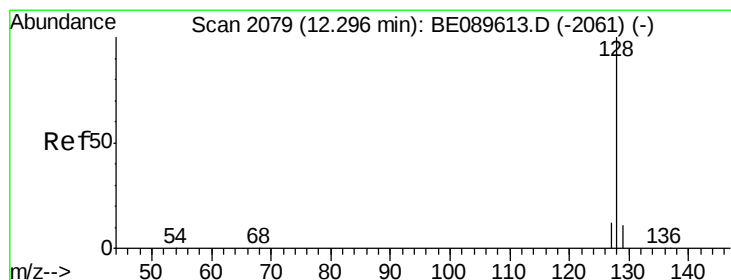
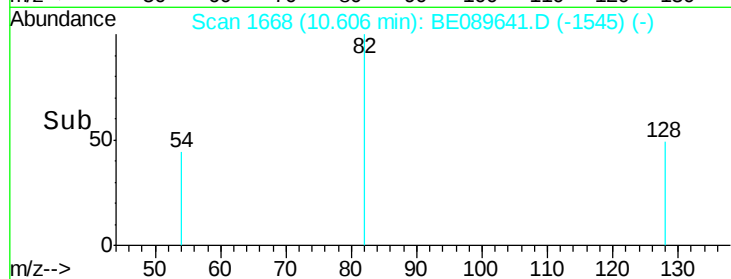
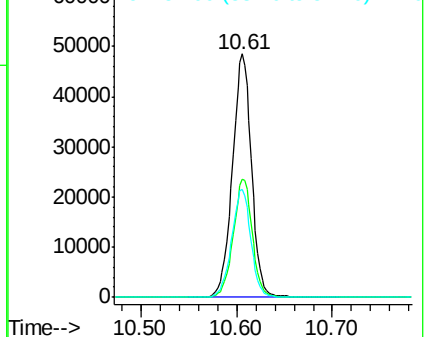
54 44.4 37.5 56.3



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: 0.16 ng

RT: 12.29 min Scan# 2078

Delta R.T. -0.01 min

Lab File: BE089641.D

Acq: 20 Feb 2015 00:30

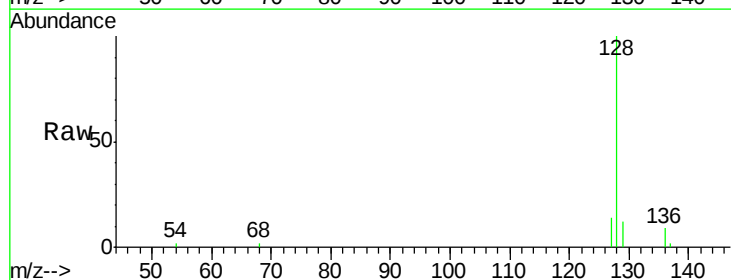
Tgt Ion: 128 Resp: 5002

Ion Ratio Lower Upper

128 100

129 12.3 8.9 13.3

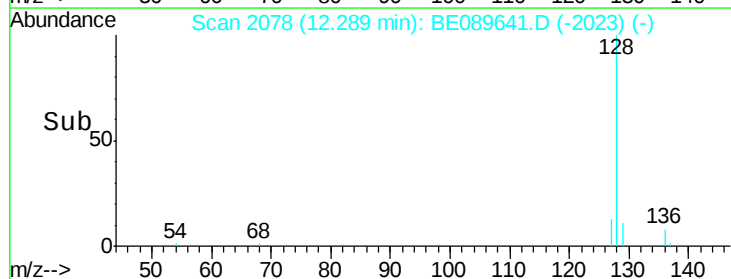
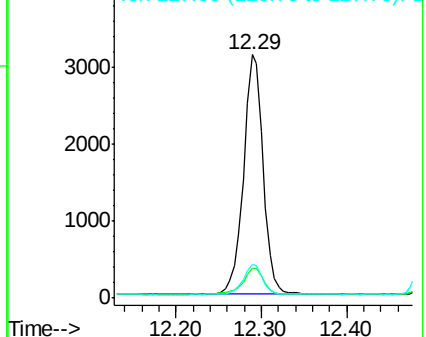
127 14.0 9.8 14.8



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: BE089641.D

Acq: 20 Feb 2015 00:30

Instrument :

BNA_E

ClientSampleId :

MDL-03-W

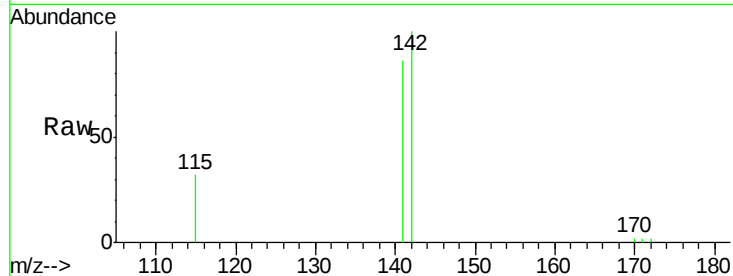
Tot Ion:142 Resp: 2847

Ion Ratio Lower Upper

142 100

141 86.2 68.3 102.5

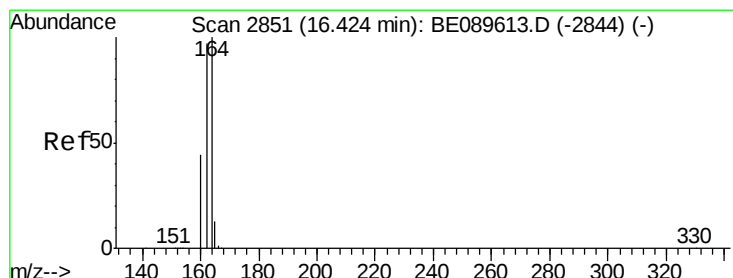
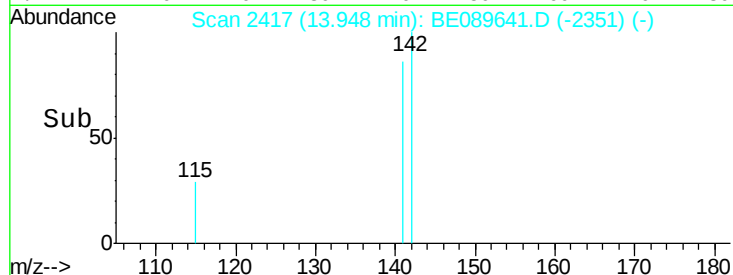
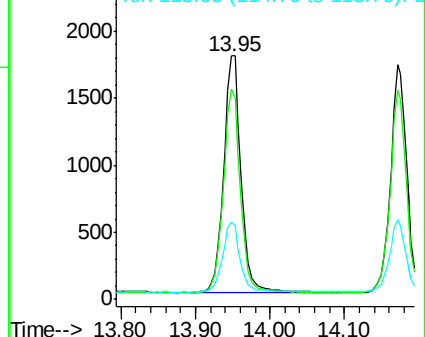
115 31.7 25.1 37.7



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# 2852

Delta R.T. -0.00 min

Lab File: BE089641.D

Acq: 20 Feb 2015 00:30

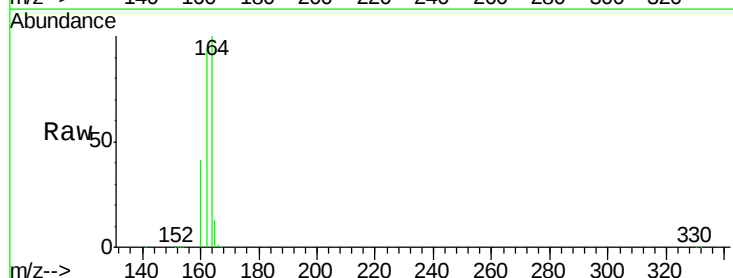
Tgt Ion:164 Resp: 69953

Ion Ratio Lower Upper

164 100

162 93.5 77.5 116.3

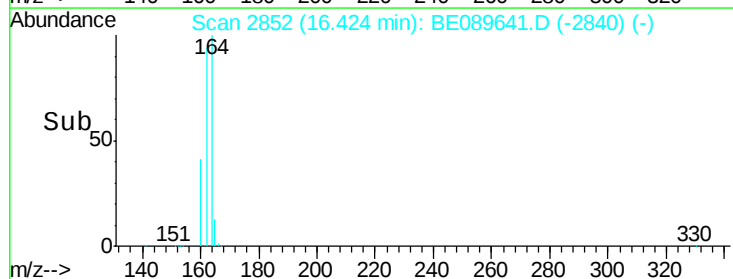
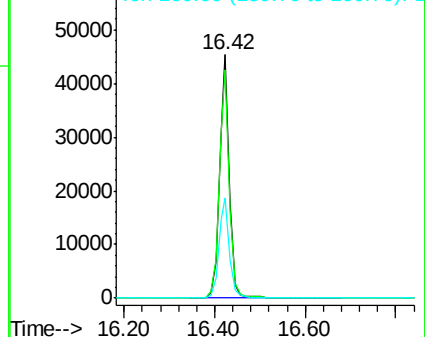
160 41.0 35.5 53.3



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: 9.47 ng

RT: 14.88 min Scan# 2621

Delta R.T. -0.01 min

Lab File: BE089641.D

Acq: 20 Feb 2015 00:30

Instrument :

BNA_E

ClientSampleId :

MDL-03-W

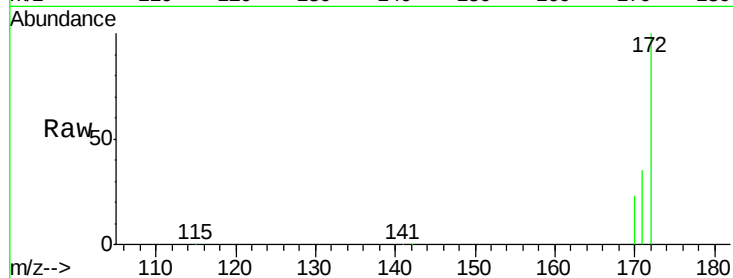
Tot Ion:172 Resp: 177515

Ion Ratio Lower Upper

172 100

171 34.7 26.9 40.3

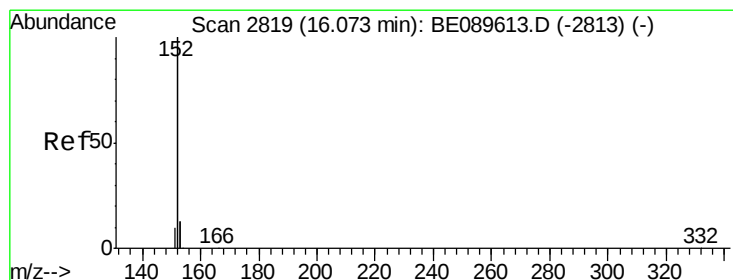
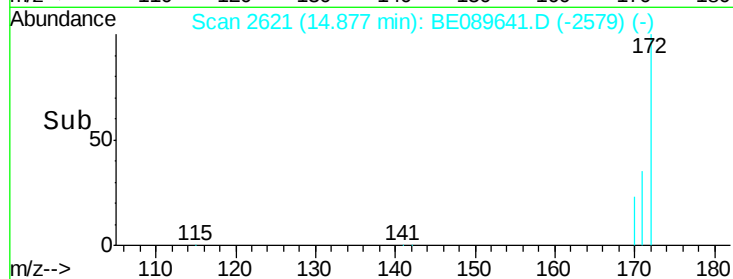
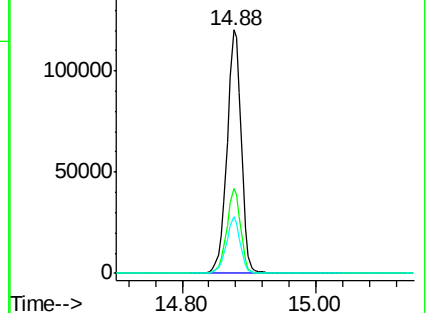
170 23.1 17.4 26.0



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: 0.14 ng

RT: 16.07 min Scan# 2820

Delta R.T. -0.00 min

Lab File: BE089641.D

Acq: 20 Feb 2015 00:30

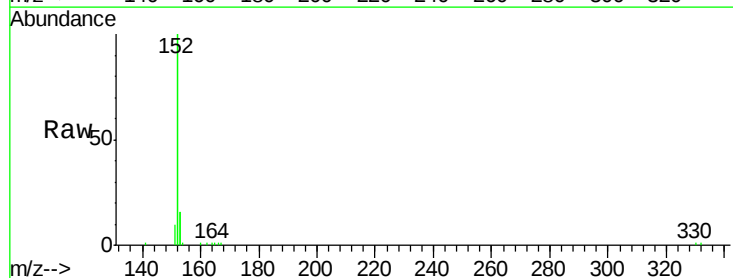
Tgt Ion:152 Resp: 15877

Ion Ratio Lower Upper

152 100

151 5.0 3.9 5.9

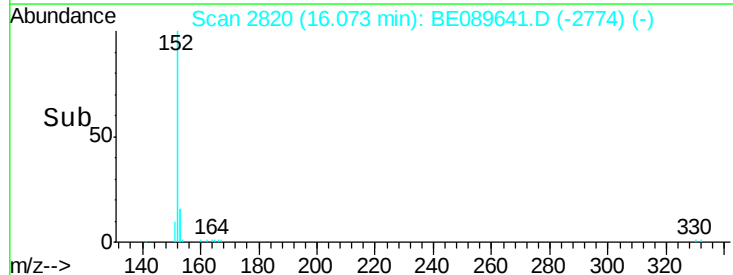
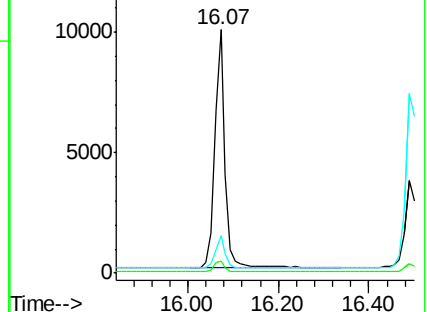
153 13.4 10.5 15.7

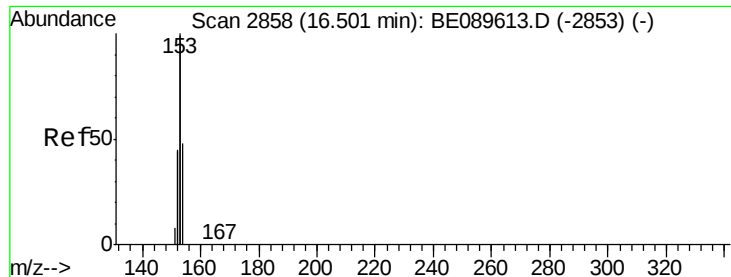


Abundance Ion 152.00 (151.70 to 152.70): E

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# 2858

Delta R.T. -0.01 min

Lab File: BE089641.D

Acq: 20 Feb 2015 00:30

Instrument :

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ClientSampleId :

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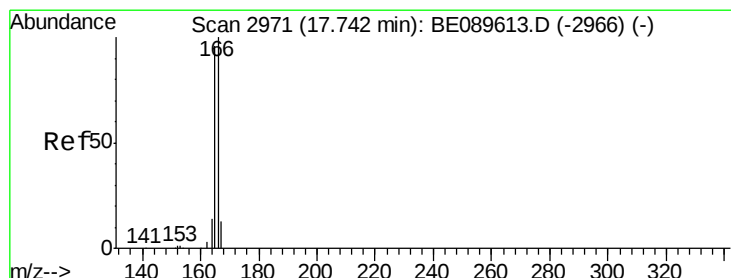
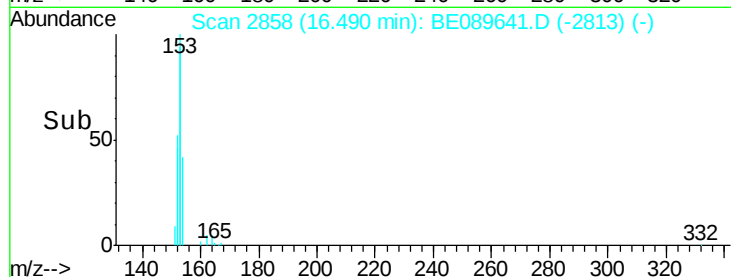
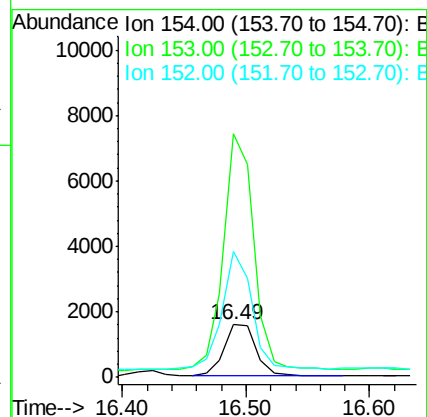
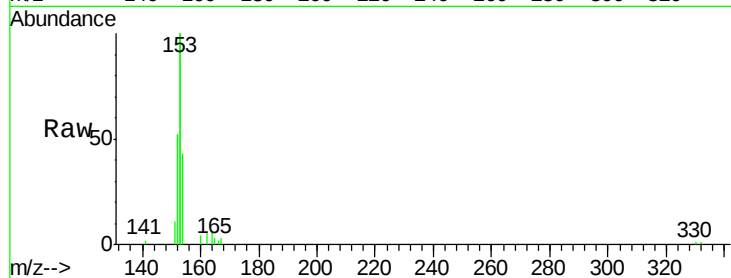
Tot Ion:154 Resp: 2774

Ion Ratio Lower Upper

154 100

153 447.9 348.9 523.3

152 222.7 166.6 249.8



#12

Fluorene

Concen: 0.16 ng

RT: 17.74 min Scan# 2972

Delta R.T. -0.00 min

Lab File: BE089641.D

Acq: 20 Feb 2015 00:30

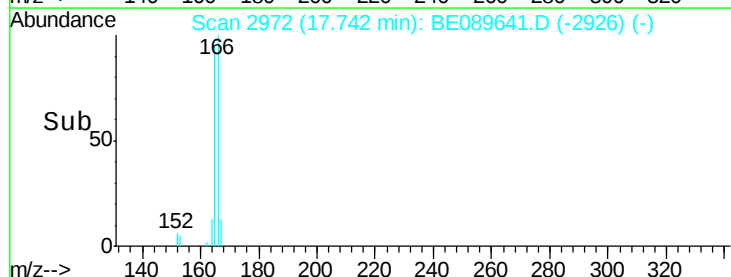
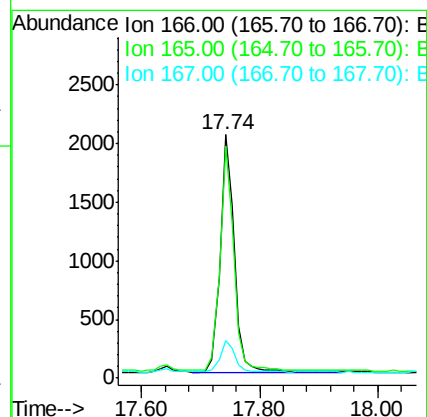
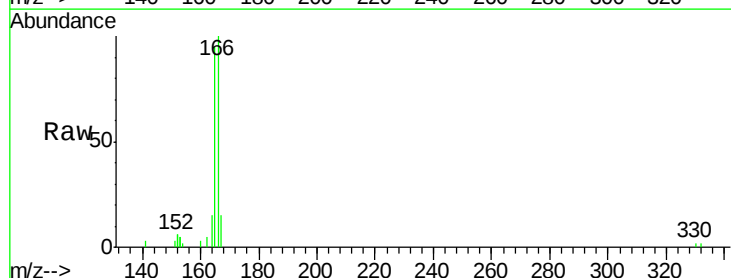
Tgt Ion:166 Resp: 3327

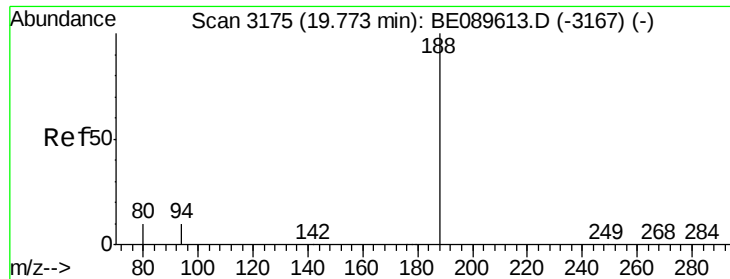
Ion Ratio Lower Upper

166 100

165 91.5 74.7 112.1

167 13.0 10.5 15.7





#13

Phenanthrene-d10

Concen: 5.00 ng

RT: 19.77 min Scan# 3176

Delta R.T. -0.00 min

Lab File: BE089641.D

Acq: 20 Feb 2015 00:30

Instrument :

BNA_E

ClientSampleId :

MDL-03-W

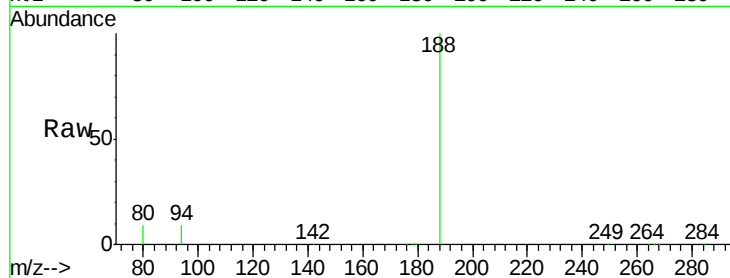
Tot Ion:188 Resp: 137179

Ion Ratio Lower Upper

188 100

94 9.0 8.2 12.4

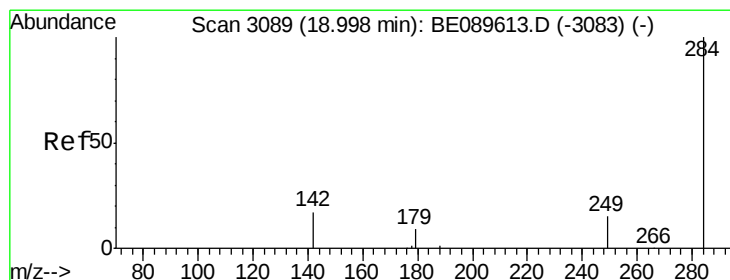
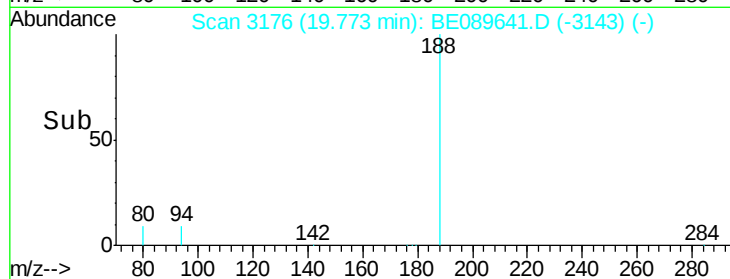
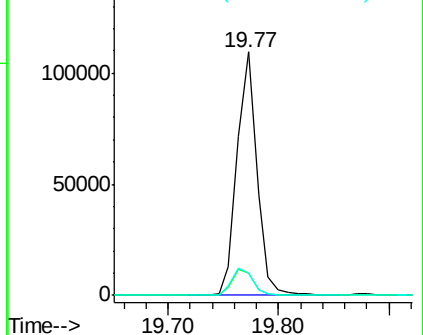
80 8.9 8.1 12.1



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



#14

Hexachlorobenzene

Concen: 0.17 ng

RT: 19.00 min Scan# 3090

Delta R.T. -0.00 min

Lab File: BE089641.D

Acq: 20 Feb 2015 00:30

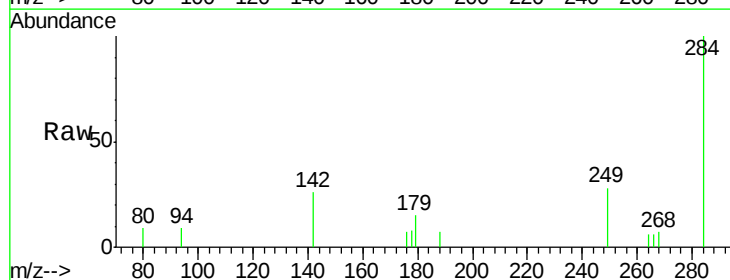
Tgt Ion:284 Resp: 996

Ion Ratio Lower Upper

284 100

142 38.2 32.3 48.5

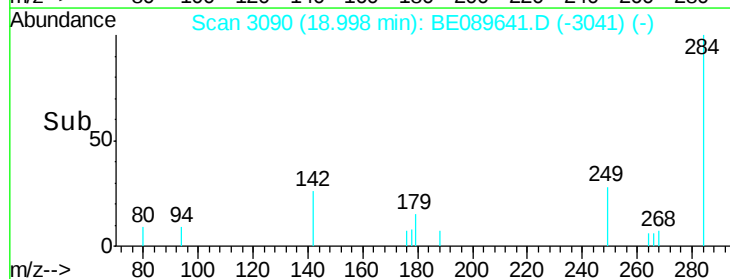
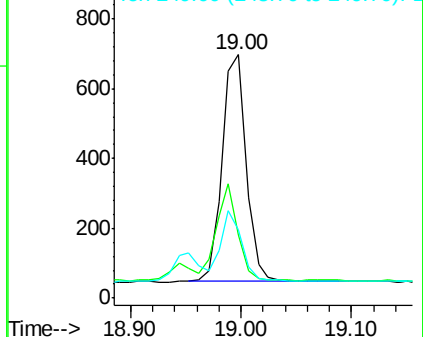
249 27.2 22.3 33.5



Abundance Ion 283.80 (283.50 to 284.50): E

Ion 142.00 (141.70 to 142.70): E

Ion 249.00 (248.70 to 249.70): E





#15

Pentachlorophenol

Concen: 0.09 ng

RT: 19.44 min Scan# 3139

Delta R.T. 0.00 min

Lab File: BE089641.D

Acq: 20 Feb 2015 00:30

Instrument :

BNA_E

ClientSampleId :

MDL-03-W

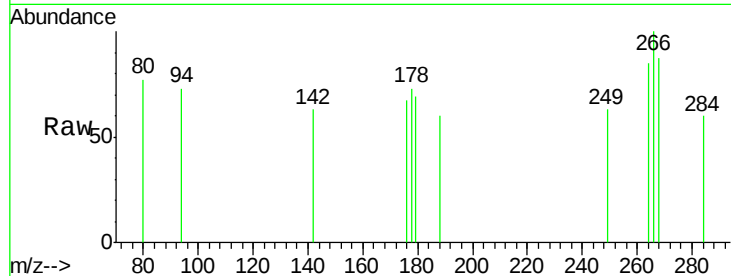
Tot Ion:266 Resp: 92

Ion Ratio Lower Upper

266 100

268 87.2 52.6 79.0#

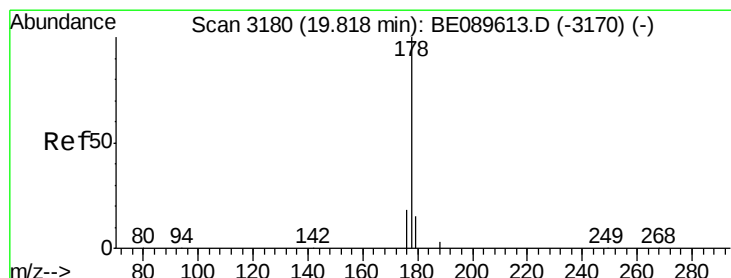
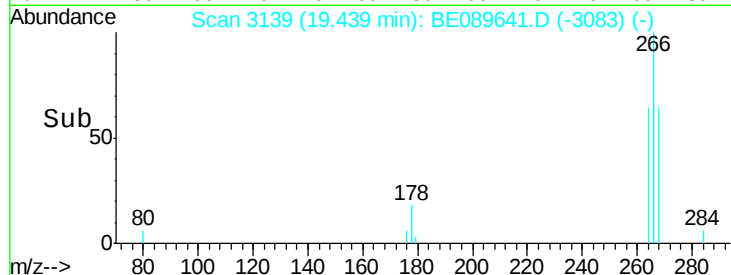
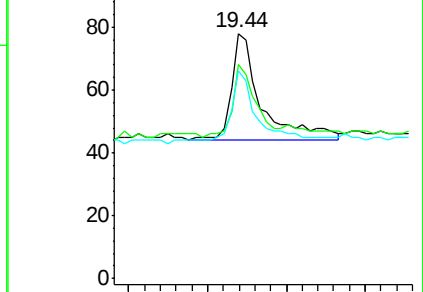
264 84.6 51.8 77.8#



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: 0.16 ng

RT: 19.81 min Scan# 3180

Delta R.T. -0.01 min

Lab File: BE089641.D

Acq: 20 Feb 2015 00:30

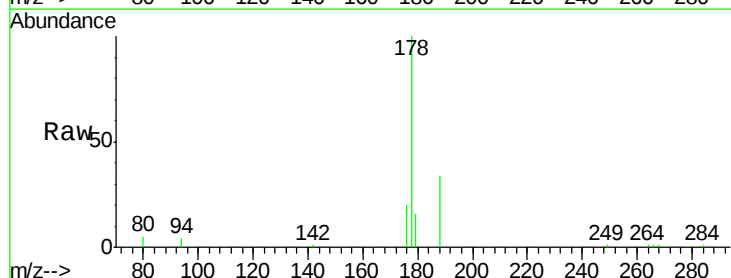
Tgt Ion:178 Resp: 5483

Ion Ratio Lower Upper

178 100

176 18.5 15.1 22.7

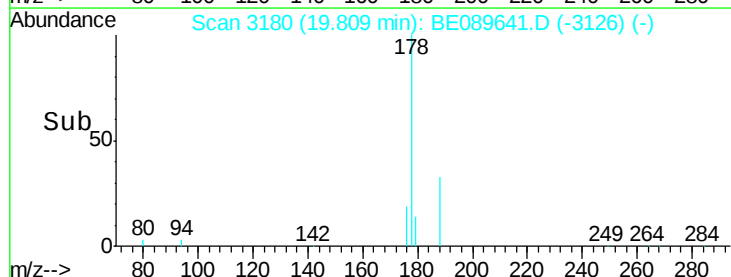
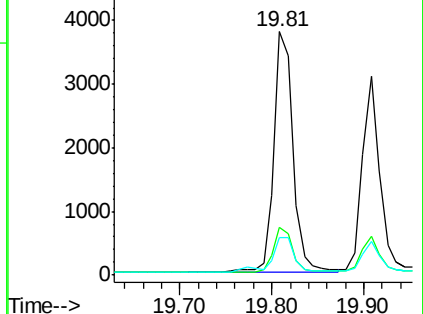
179 17.0 12.3 18.5



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: 0.15 ng

RT: 19.91 min Scan# 3191

Delta R.T. -0.00 min

Lab File: BE089641.D

Acq: 20 Feb 2015 00:30

Instrument :

BNA_E

ClientSampleId :

MDL-03-W

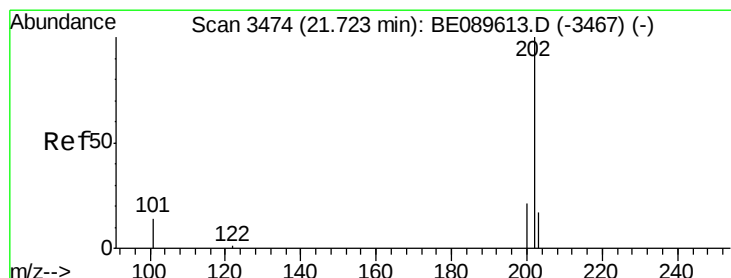
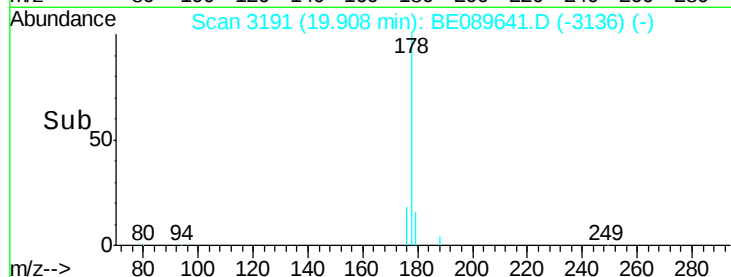
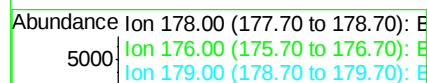
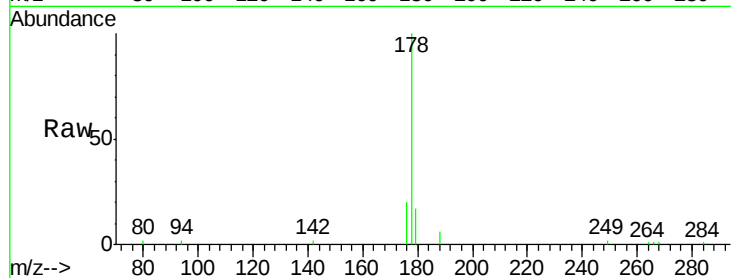
Tot Ion:178 Resp: 4163

Ion Ratio Lower Upper

178 100

176 18.5 14.6 22.0

179 15.0 12.3 18.5



#18

Fluoranthene

Concen: 0.15 ng

RT: 21.72 min Scan# 3475

Delta R.T. -0.00 min

Lab File: BE089641.D

Acq: 20 Feb 2015 00:30

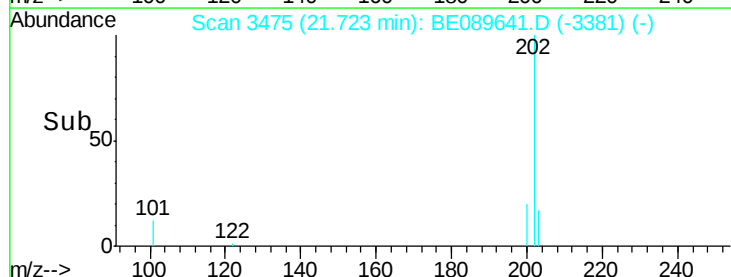
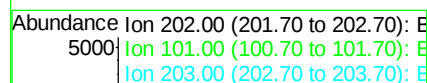
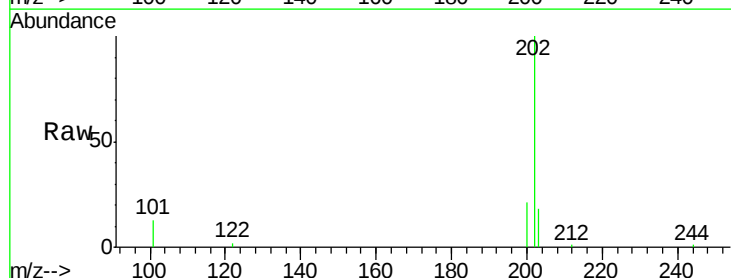
Tgt Ion:202 Resp: 4660

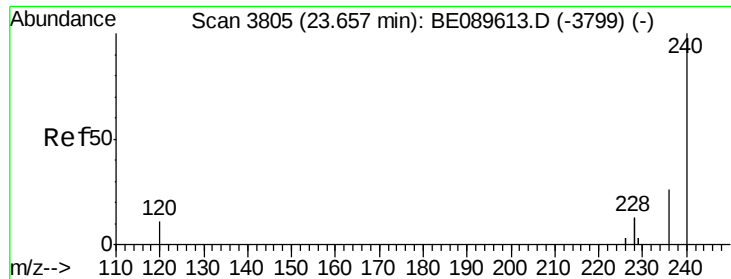
Ion Ratio Lower Upper

202 100

101 12.7 10.4 15.6

203 17.3 13.9 20.9

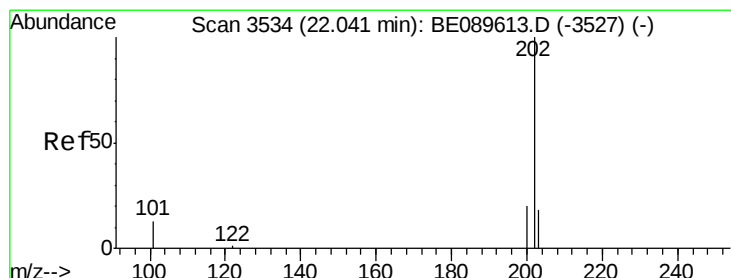
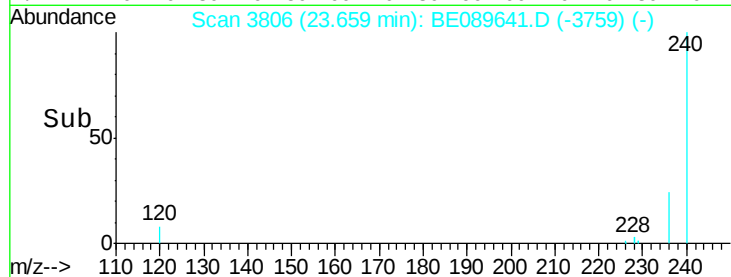
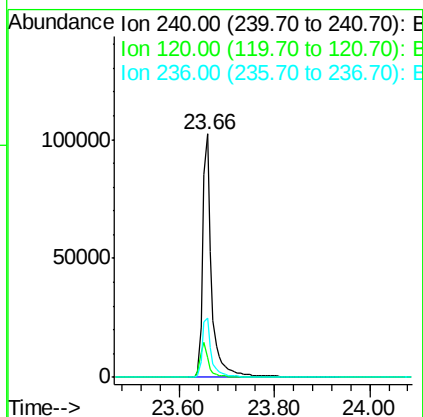
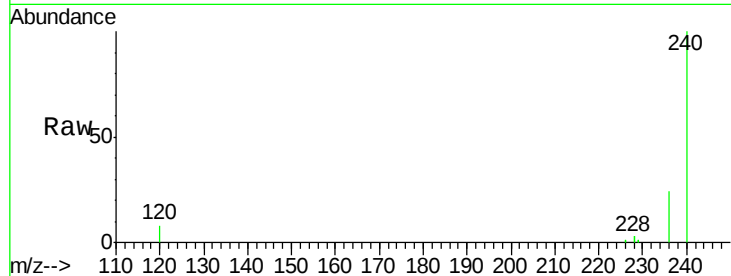




#19
Chrysene-d12
Concen: 5.00 ng
RT: 23.66 min Scan# 3806
Delta R.T. 0.00 min
Lab File: BE089641.D
Acq: 20 Feb 2015 00:30

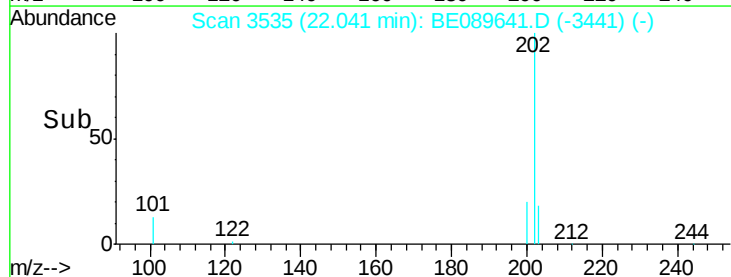
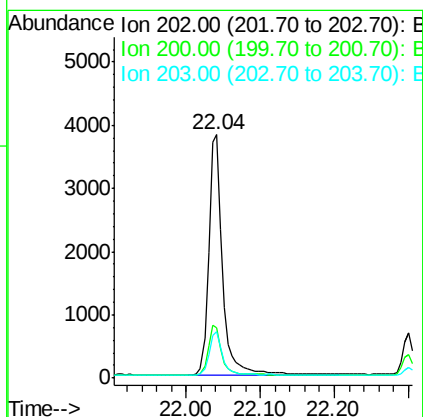
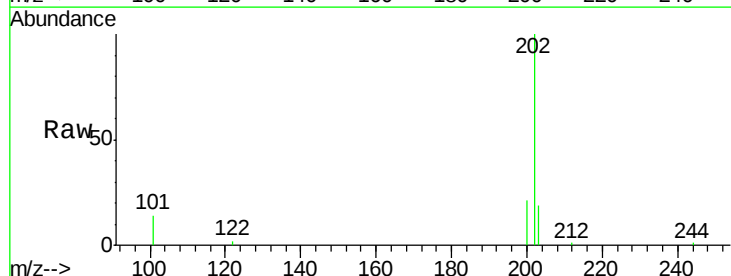
Instrument :
BNA_E
ClientSampleId :
MDL-03-W

Tot Ion:240 Resp: 132539
Ion Ratio Lower Upper
240 100
120 8.0 9.0 13.4#
236 24.2 21.0 31.6



#20
Pyrene
Concen: 0.15 ng
RT: 22.04 min Scan# 3535
Delta R.T. -0.00 min
Lab File: BE089641.D
Acq: 20 Feb 2015 00:30

Tgt Ion:202 Resp: 4917
Ion Ratio Lower Upper
202 100
200 20.4 16.3 24.5
203 17.5 13.8 20.8





#21

Terphenyl-d14

Concen: 12.02 ng

RT: 22.30 min Scan# 3584

Delta R.T. -0.00 min

Lab File: BE089641.D

Acq: 20 Feb 2015 00:30

Instrument :

BNA_E

ClientSampleId :

MDL-03-W

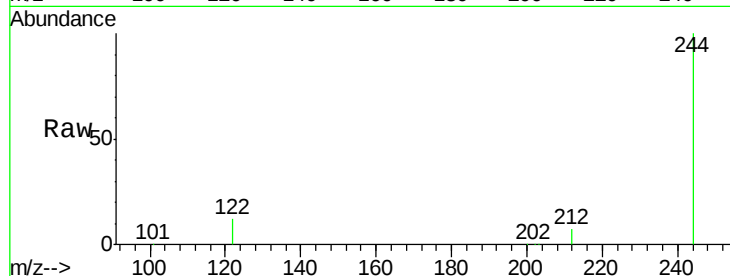
Tot Ion:244 Resp: 229102

Ion Ratio Lower Upper

244 100

212 6.7 5.8 8.8

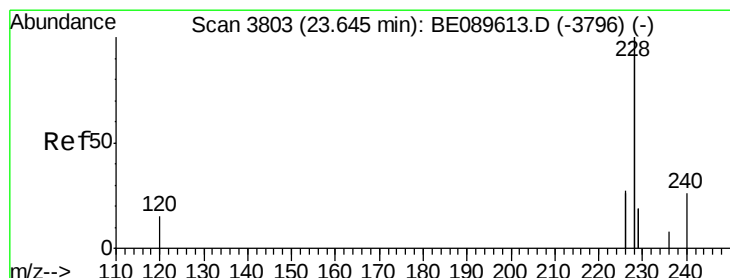
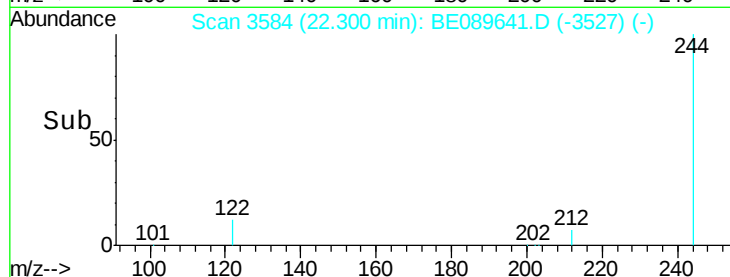
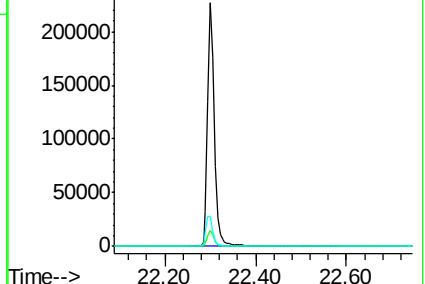
122 12.4 11.8 17.8



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: 0.14 ng

RT: 23.65 min Scan# 3804

Delta R.T. 0.00 min

Lab File: BE089641.D

Acq: 20 Feb 2015 00:30

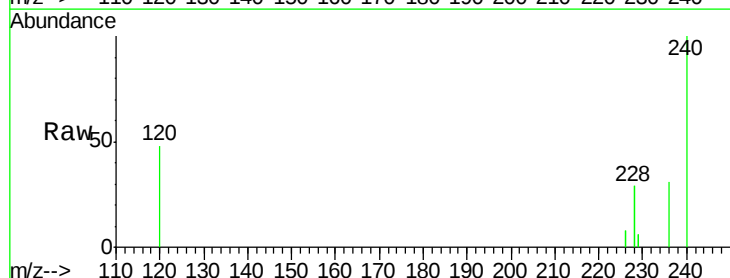
Tgt Ion:228 Resp: 16436

Ion Ratio Lower Upper

228 100

226 27.5 21.2 31.8

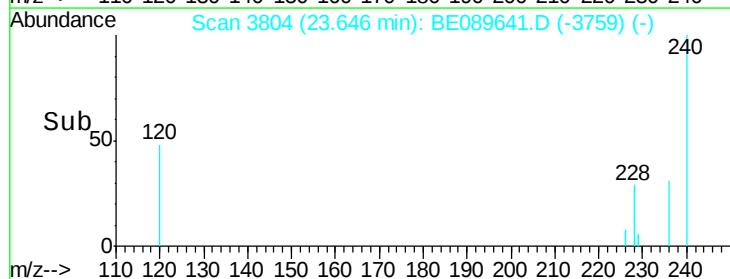
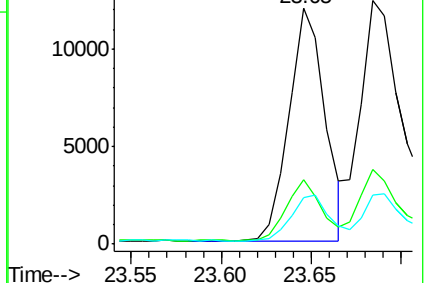
229 19.5 15.2 22.8



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: 0.19 ng

RT: 23.68 min Scan# 3810

Delta R.T. -0.01 min

Lab File: BE089641.D

Acq: 20 Feb 2015 00:30

Instrument :

BNA_E

ClientSampleId :

MDL-03-W

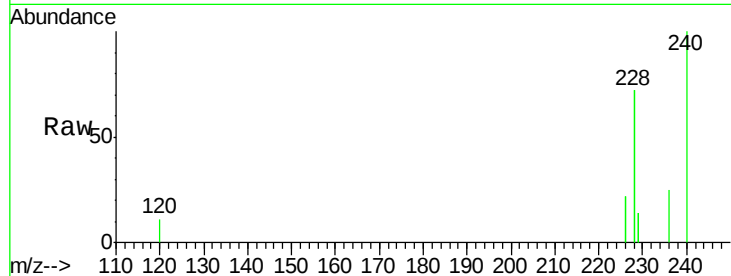
Tot Ion:228 Resp: 25317

Ion Ratio Lower Upper

228 100

226 30.4 22.2 33.4

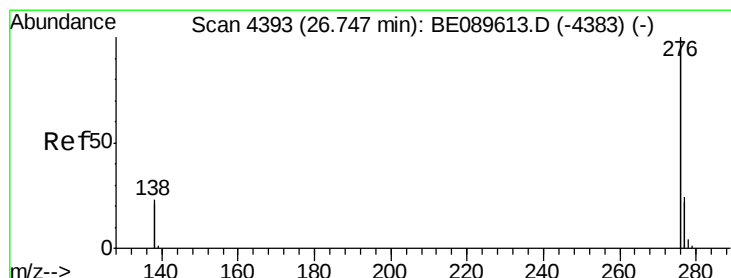
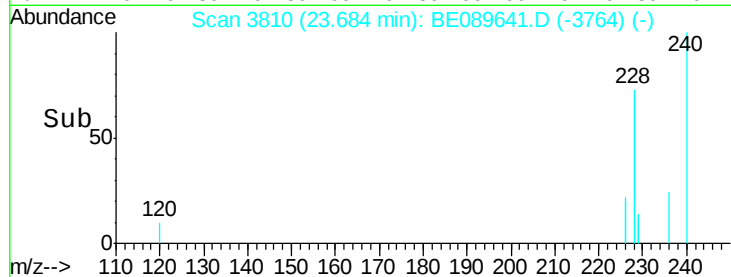
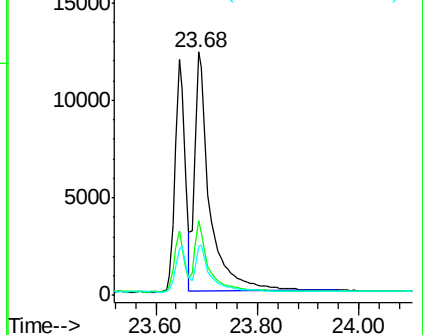
229 19.9 16.0 24.0



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: 0.23 ng

RT: 26.74 min Scan# 4393

Delta R.T. -0.00 min

Lab File: BE089641.D

Acq: 20 Feb 2015 00:30

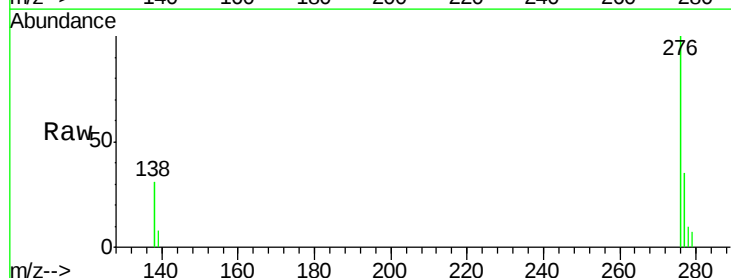
Tgt Ion:276 Resp: 6673

Ion Ratio Lower Upper

276 100

138 18.9 21.4 32.2#

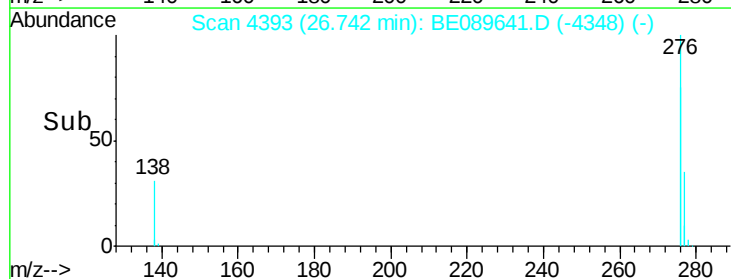
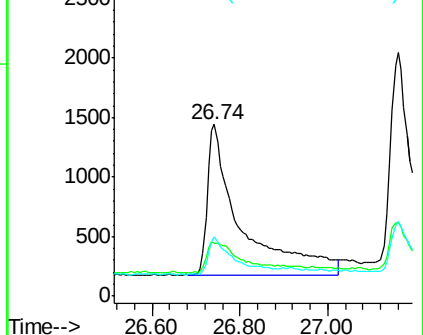
277 19.9 19.9 29.9

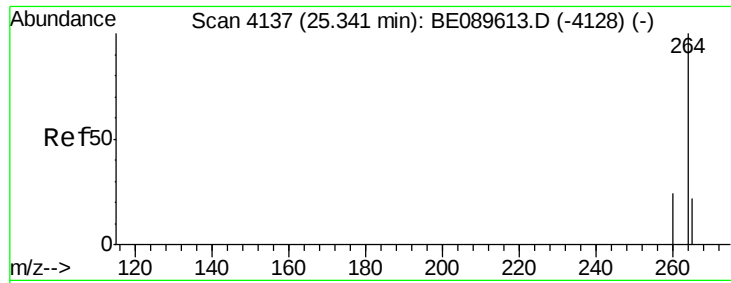


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

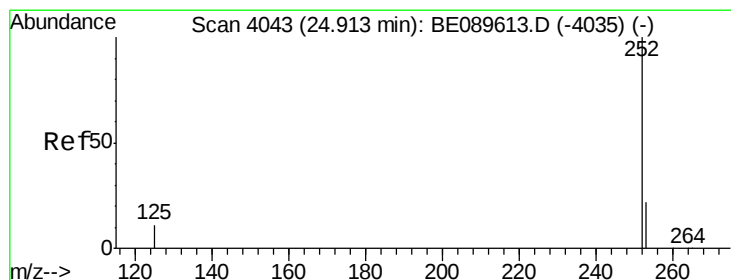
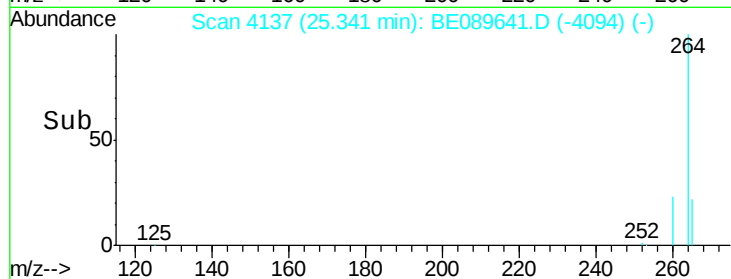
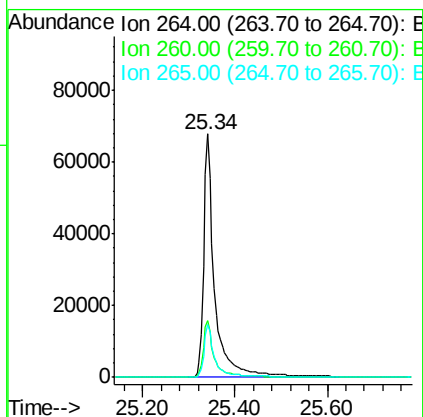
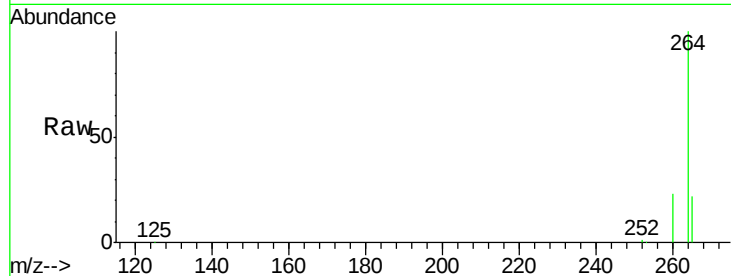




#25
Pervlene-d12
Concen: 5.00 ng
RT: 25.34 min Scan# 4137
Delta R.T. -0.00 min
Lab File: BE089641.D
Acq: 20 Feb 2015 00:30

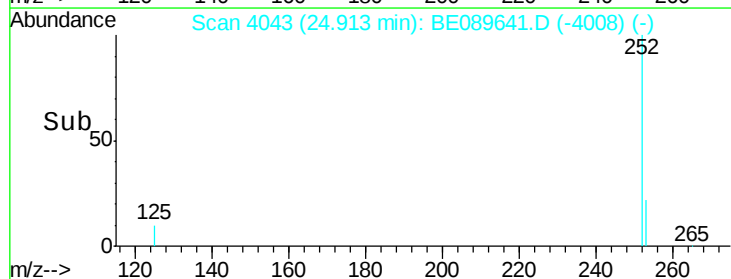
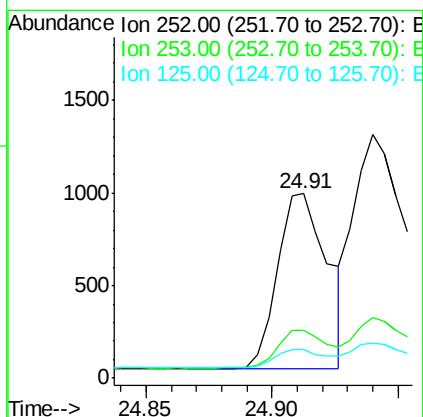
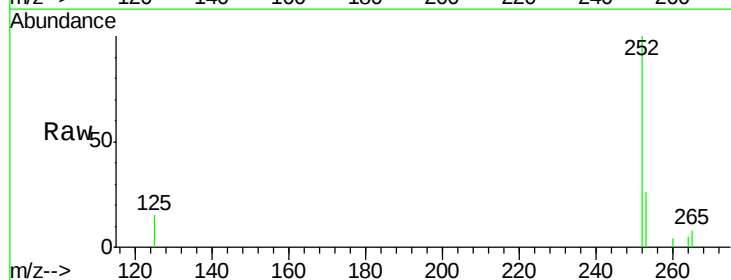
Instrument :
BNA_E
ClientSampleId :
MDL-03-W

Tot Ion:264 Resp: 111336
Ion Ratio Lower Upper
264 100
260 23.4 19.0 28.6
265 21.6 17.4 26.0



#26
Benzo(b)fluoranthene
Concen: 0.32 ng
RT: 24.91 min Scan# 4043
Delta R.T. 0.00 min
Lab File: BE089641.D
Acq: 20 Feb 2015 00:30

Tgt Ion:252 Resp: 1304
Ion Ratio Lower Upper
252 100
253 26.1 17.6 26.4
125 15.5 8.8 13.2#





#27

Benzo(k)fluoranthene

Concen: 0.13 ng/mL

RT: 24.94 min Scan# 4049

Delta R.T. -0.00 min

Lab File: BE089641.D

Acq: 20 Feb 2015 00:30

Instrument :

BNA_E

ClientSampleId :

MDL-03-W

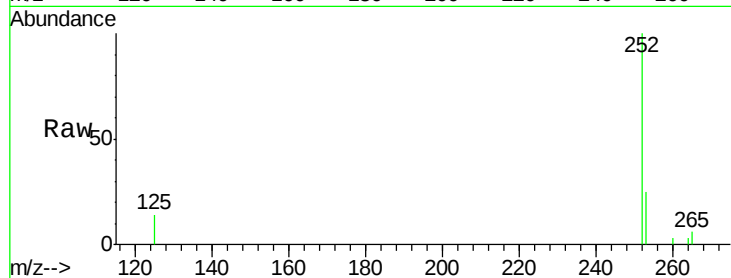
Tot Ion:252 Resp: 4100

Ion Ratio Lower Upper

252 100

253 24.9 17.7 26.5

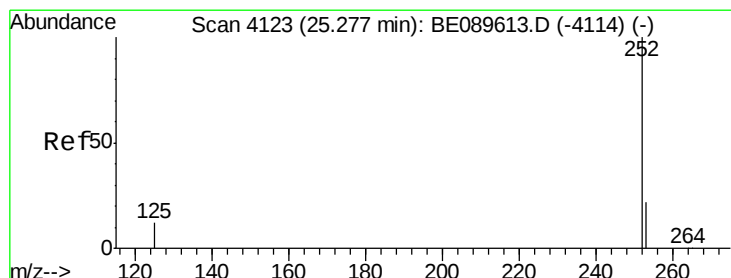
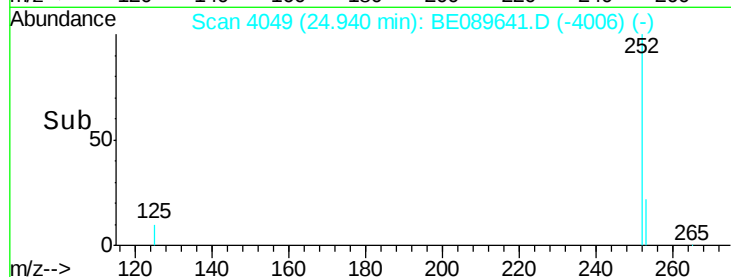
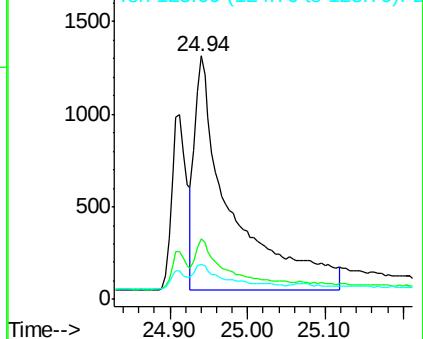
125 14.2 8.8 13.2#



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: 0.30 ng/mL

RT: 25.27 min Scan# 4122

Delta R.T. -0.00 min

Lab File: BE089641.D

Acq: 20 Feb 2015 00:30

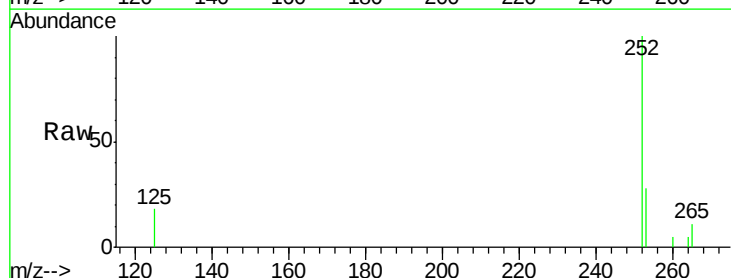
Tgt Ion:252 Resp: 1439

Ion Ratio Lower Upper

252 100

253 27.9 18.1 27.1#

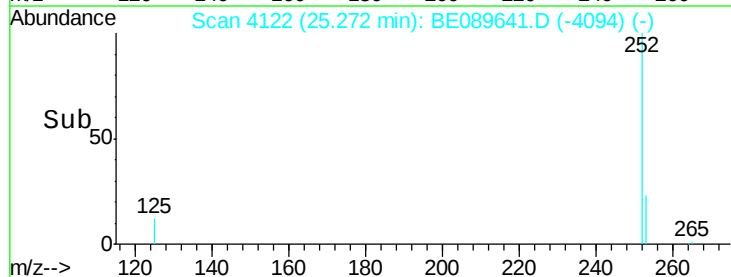
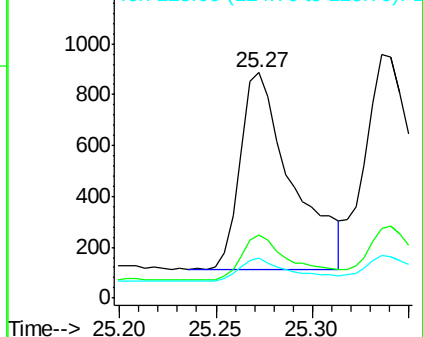
125 17.9 9.6 14.4#

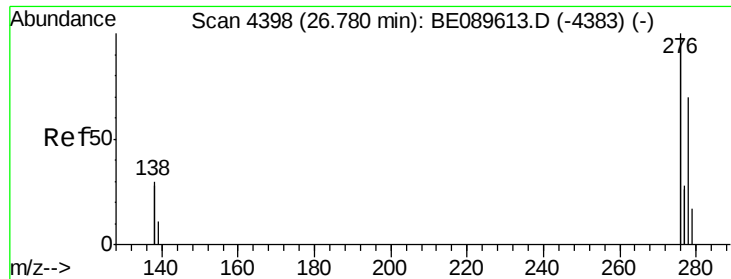


Abundance Ion 252.00 (251.70 to 252.70): E

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: BE089641.D

Acq: 20 Feb 2015 00:30

Instrument :

BNA_E

ClientSampleId :

MDL-03-W

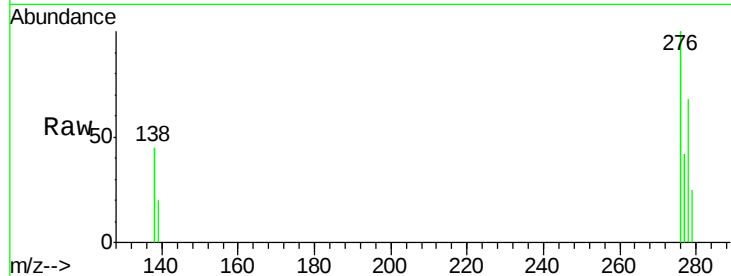
Tot Ion:278 Resp: 867

Ion Ratio Lower Upper

278 100

139 29.7 13.7 20.5#

279 36.7 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

26.77

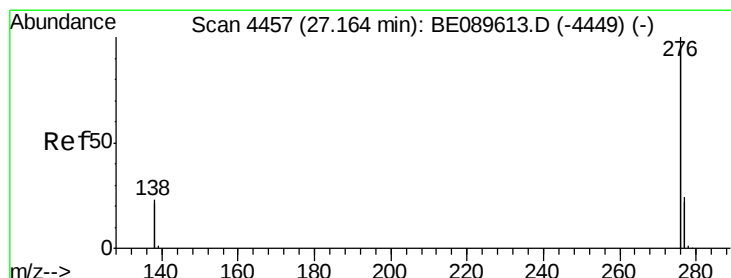
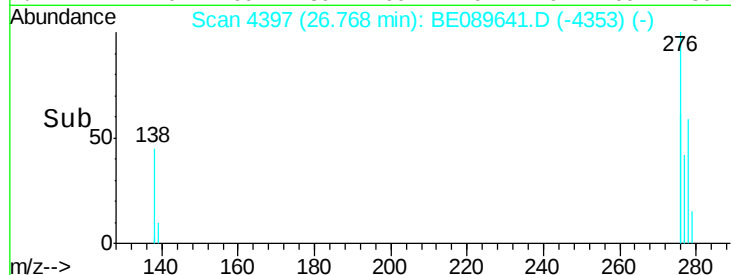
300

200

100

0

Time-->



#30

Benzo(g,h,i)perylene

Concen: 0.21 ng

RT: 27.16 min Scan# 4457

Delta R.T. -0.00 min

Lab File: BE089641.D

Acq: 20 Feb 2015 00:30

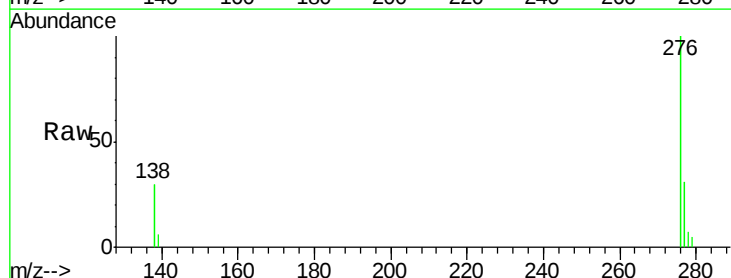
Tgt Ion:276 Resp: 8158

Ion Ratio Lower Upper

276 100

277 30.8 19.1 28.7#

138 30.0 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

27.16

2500

2000

1500

1000

500

0

Time-->

