

Data Path : Z:\HPCHEM1\BNA_E\Data\BE021815\
 Data File : BE089642.D
 Acq On : 20 Feb 2015 1:09
 Operator : TP/IZ
 Sample : MDL-04-W
 Misc : MDL-WATER-0.2/0.4
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 MDL-04-W

Quant Time: Feb 20 02:30:43 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

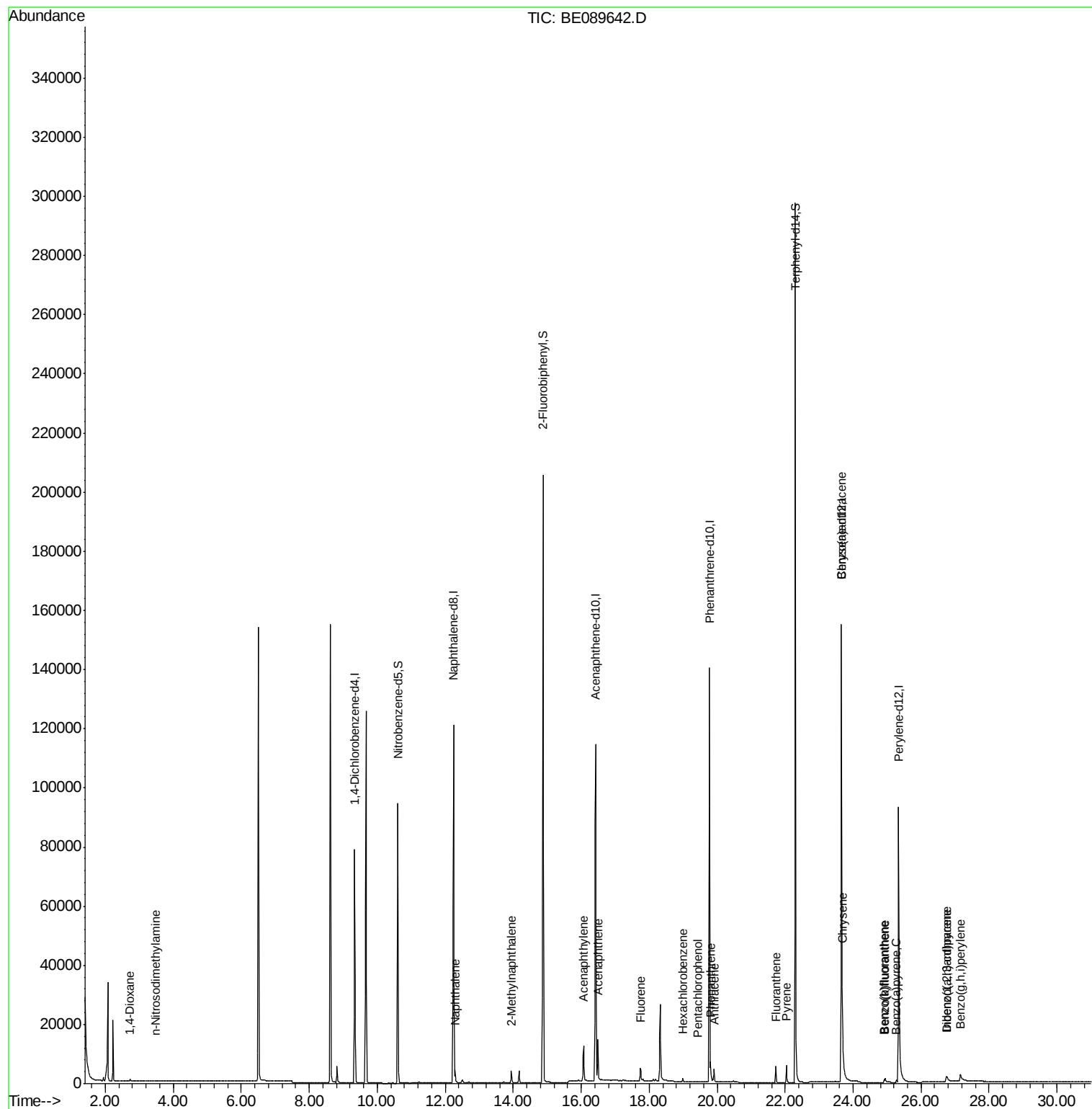
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.34	152	36160	5.00	ng	0.00
4) Naphthalene-d8	12.24	136	143455	5.00	ng	0.00
8) Acenaphthene-d10	16.42	164	72522	5.00	ng	0.00
13) Phenanthrene-d10	19.77	188	143322	5.00	ng	0.00
19) Chrysene-d12	23.66	240	135795	5.00	ng	0.00
25) Perylene-d12	25.34	264	110972	5.00	ng	0.00
System Monitoring Compounds						
5) Nitrobenzene-d5	10.61	82	67693	10.86	ng	0.00
9) 2-Fluorobiphenyl	14.88	172	188481	9.70	ng	0.00
21) Terphenyl-d14	22.30	244	246700	12.63	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.72	88	614	0.14	ng	# 83
3) n-Nitrosodimethylamine	3.48	42	348	0.08	ng	# 42
6) Naphthalene	12.29	128	5129	0.16	ng	97
7) 2-Methylnaphthalene	13.95	142	2878	0.15	ng	99
10) Acenaphthylene	16.07	152	16233	0.14	ng	100
11) Acenaphthene	16.49	154	2919	0.15	ng	95
12) Fluorene	17.74	166	3368	0.15	ng	99
14) Hexachlorobenzene	19.00	284	1029	0.17	ng	94
15) Pentachlorophenol	19.45	266	70	0.05	ng	# 79
16) Phenanthrene	19.81	178	5754	0.16	ng	98
17) Anthracene	19.91	178	4240	0.14	ng	100
18) Fluoranthene	21.72	202	4662	0.14	ng	99
20) Pyrene	22.04	202	5049	0.15	ng	99
22) Benzo(a)anthracene	23.65	228	15471	0.13	ng	95
23) Chrysene	23.69	228	25354	0.19	ng	98
24) Indeno(1,2,3-cd)pyrene	26.74	276	5854	0.22	ng	91
26) Benzo(b)fluoranthene	24.91	252	1073	0.31	ng	# 90
27) Benzo(k)fluoranthene	24.94	252	3183	0.10	ng	# 92
28) Benzo(a)pyrene	25.27	252	1280	0.29	ng	# 88
29) Dibenzo(a,h)anthracene	26.77	278	890	0.27	ng	# 77
30) Benzo(g,h,i)perylene	27.16	276	7515	0.21	ng	# 85

(#) = 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. -0.01 min

Lab File: BE089642.D

Acq: 20 Feb 2015 1:09

Instrument :

BNA_E

ClientSampleId :

MDL-04-W

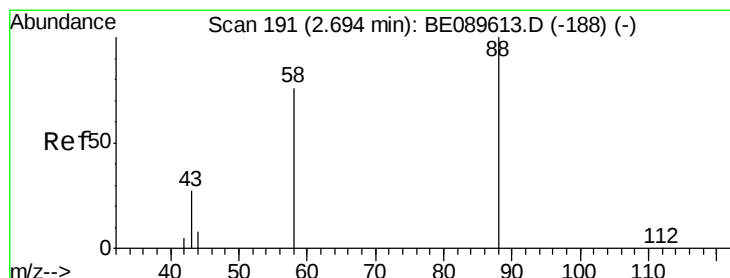
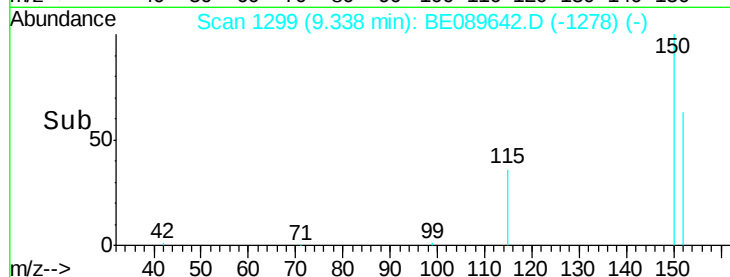
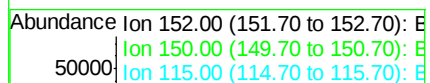
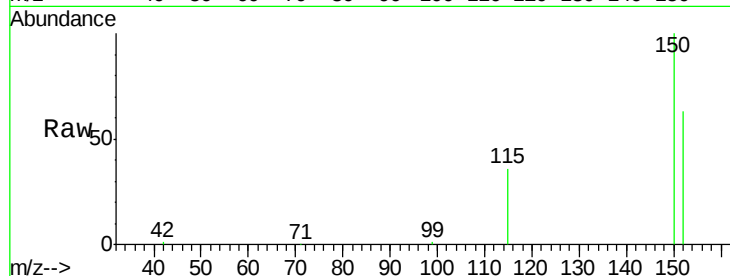
Tgt Ion:152 Resp: 36160

Ion Ratio Lower Upper

152 100

150 158.1 122.4 183.6

115 57.1 44.2 66.2



#2

1,4-Dioxane

Concen: 0.14 ng

RT: 2.72 min Scan# 195

Delta R.T. 0.03 min

Lab File: BE089642.D

Acq: 20 Feb 2015 1:09

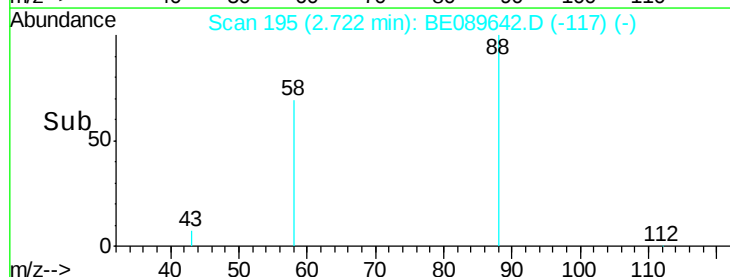
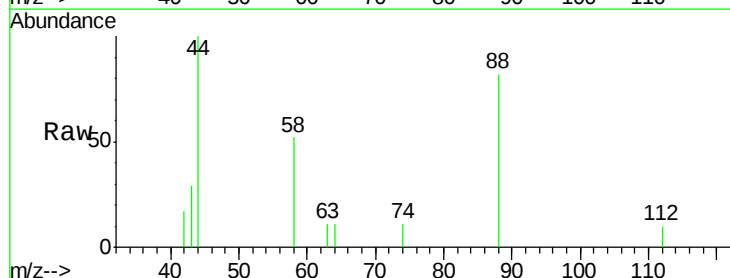
Tgt Ion: 88 Resp: 614

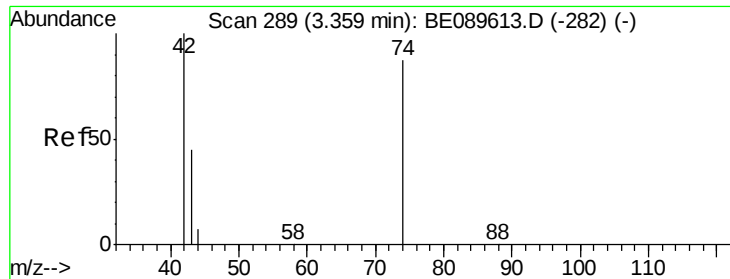
Ion Ratio Lower Upper

88 100

58 71.7 54.6 81.8

43 0.0 20.6 30.8#





#3

n-Nitrosodimethylamine

Concen: 0.08 ng

RT: 3.48 min Scan# 307

Delta R.T. 0.12 min

Lab File: BE089642.D

Acq: 20 Feb 2015 1:09

Instrument :

BNA_E

ClientSampleId :

MDL-04-W

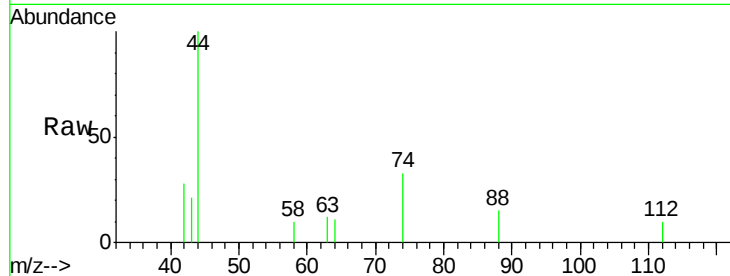
Tgt Ion: 42 Resp: 348

Ion Ratio Lower Upper

42 100

74 227.9 121.4 182.0#

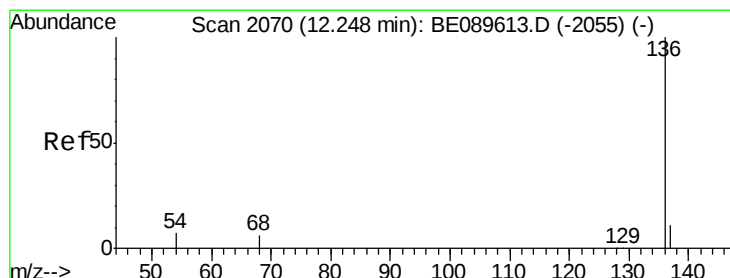
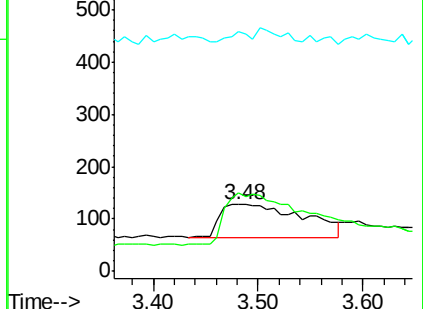
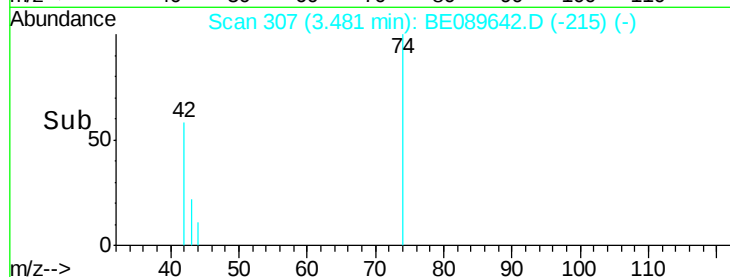
44 7.2 4.5 6.7#



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: BE089642.D

Acq: 20 Feb 2015 1:09

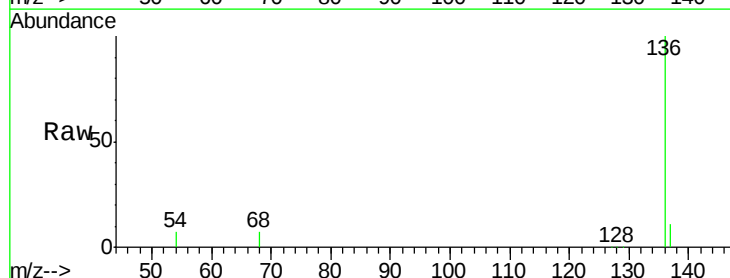
Tgt Ion: 136 Resp: 143455

Ion Ratio Lower Upper

136 100

137 11.0 8.9 13.3

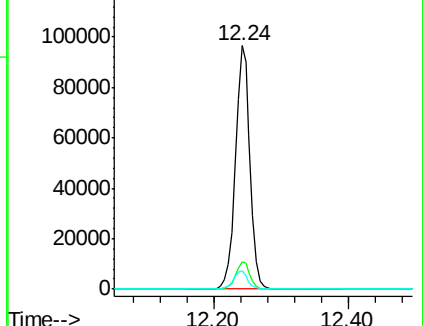
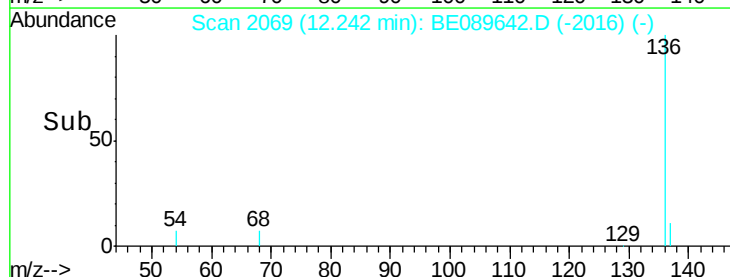
54 7.4 5.3 7.9

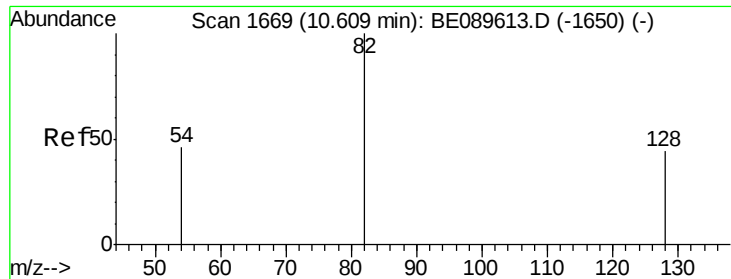


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0





#5

Nitrobenzene-d5

Concen: 10.86 ng

RT: 10.61 min Scan# 1668

Delta R.T. -0.00 min

Lab File: BE089642.D

Acq: 20 Feb 2015 1:09

Instrument :

BNA_E

ClientSampleId :

MDL-04-W

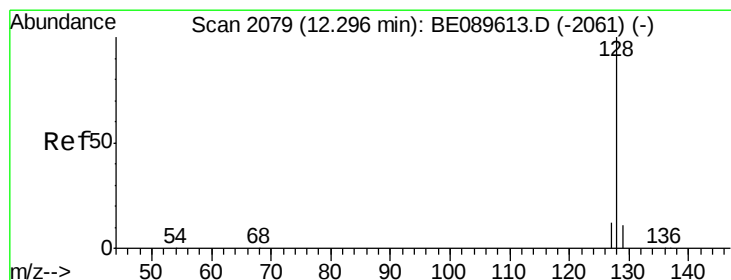
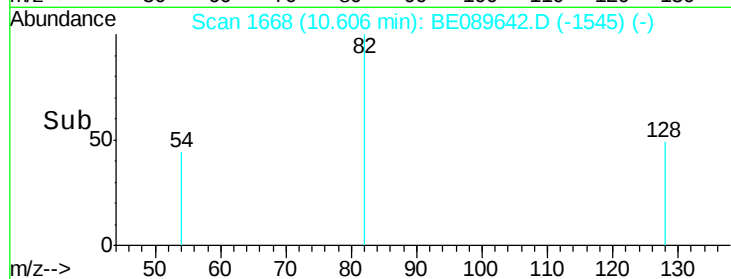
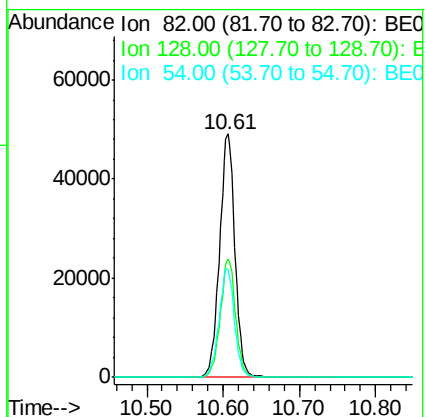
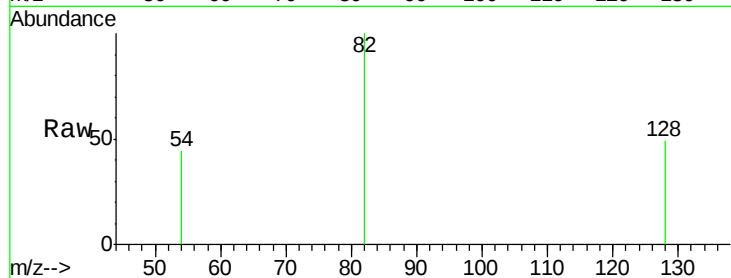
Tgt Ion: 82 Resp: 67693

Ion Ratio Lower Upper

82 100

128 48.6 35.5 53.3

54 44.3 37.5 56.3



#6

Naphthalene

Concen: 0.16 ng

RT: 12.29 min Scan# 2078

Delta R.T. -0.01 min

Lab File: BE089642.D

Acq: 20 Feb 2015 1:09

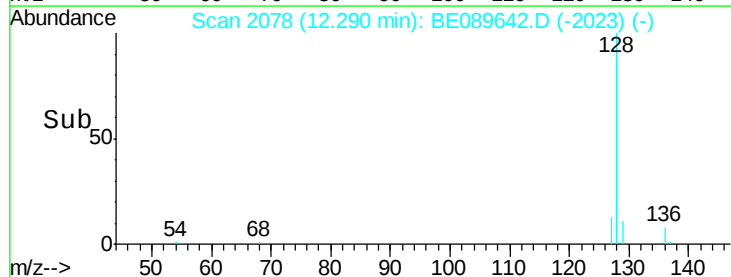
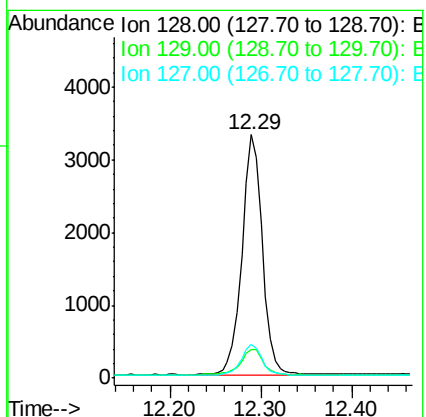
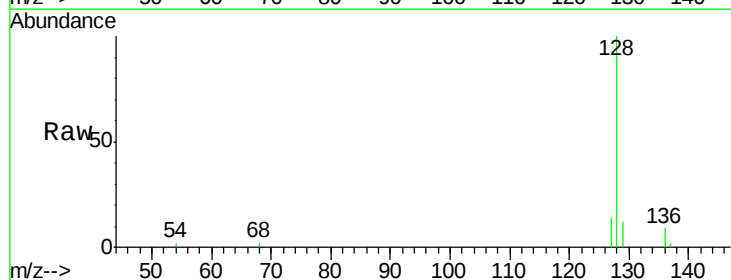
Tgt Ion: 128 Resp: 5129

Ion Ratio Lower Upper

128 100

129 11.9 8.9 13.3

127 13.9 9.8 14.8





#7

2-Methylnaphthalene

Concen: 0.15 ng

RT: 13.95 min Scan# 2417

Delta R.T. -0.00 min

Lab File: BE089642.D

Acq: 20 Feb 2015 1:09

Instrument :

BNA_E

ClientSampleId :

MDL-04-W

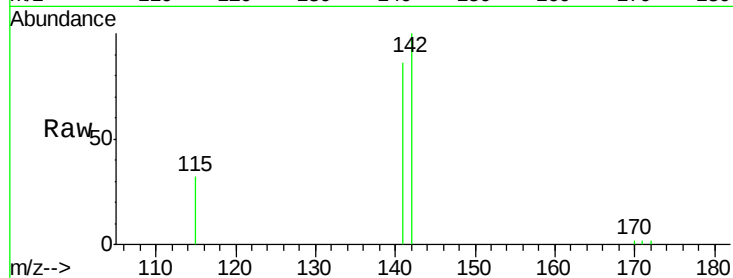
Tgt Ion:142 Resp: 2878

Ion Ratio Lower Upper

142 100

141 85.6 68.3 102.5

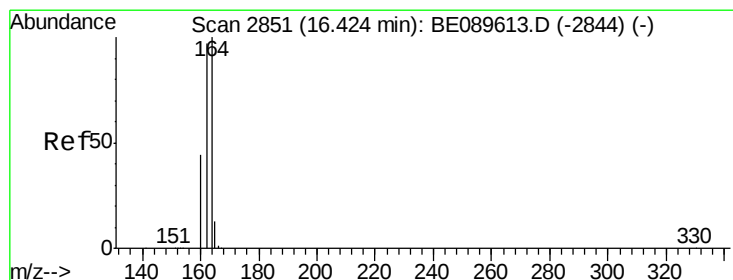
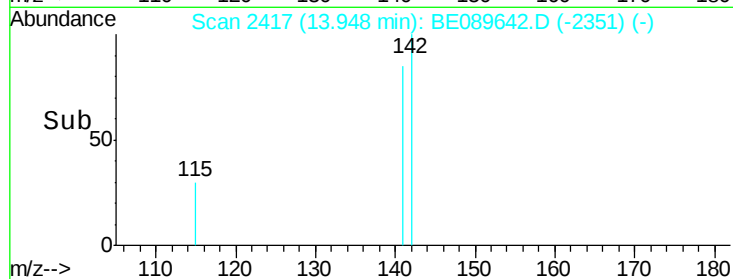
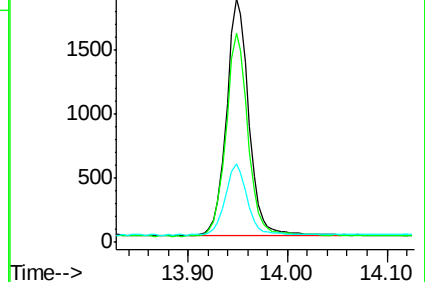
115 32.2 25.1 37.7



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: BE089642.D

Acq: 20 Feb 2015 1:09

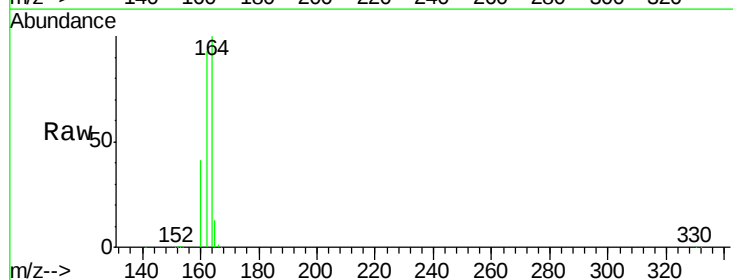
Tgt Ion:164 Resp: 72522

Ion Ratio Lower Upper

164 100

162 92.8 77.5 116.3

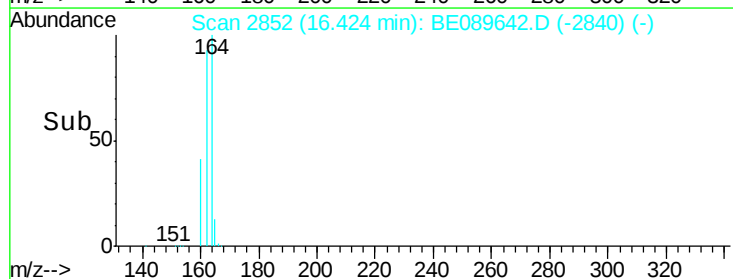
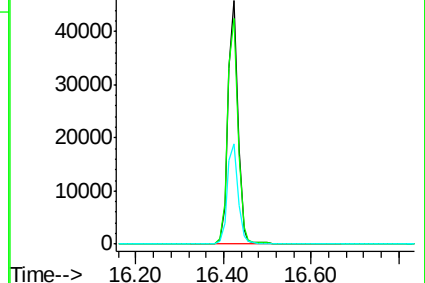
160 41.4 35.5 53.3



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# 2621

Delta R.T. -0.01 min

Lab File: BE089642.D

Acq: 20 Feb 2015 1:09

Instrument :

BNA_E

ClientSampleId :

MDL-04-W

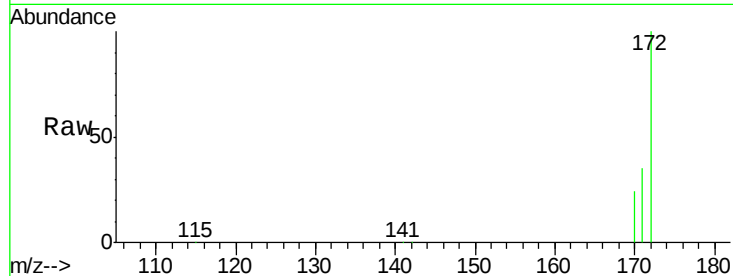
Tgt Ion:172 Resp: 188481

Ion Ratio Lower Upper

172 100

171 34.8 26.9 40.3

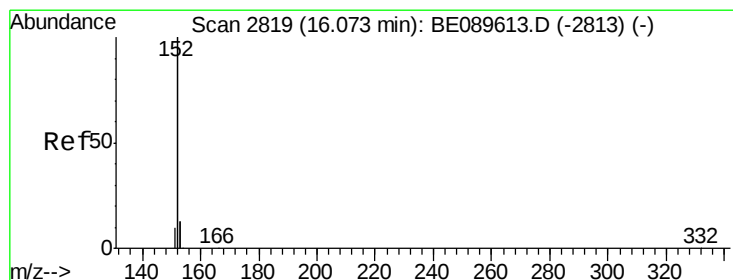
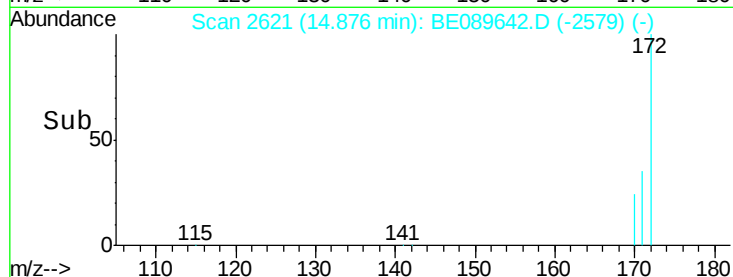
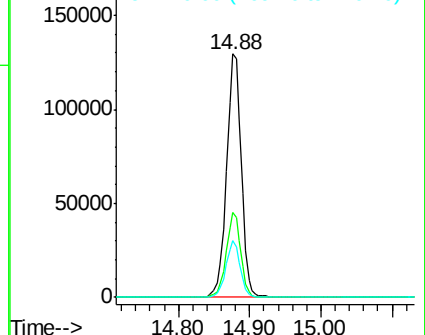
170 23.5 17.4 26.0



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: BE089642.D

Acq: 20 Feb 2015 1:09

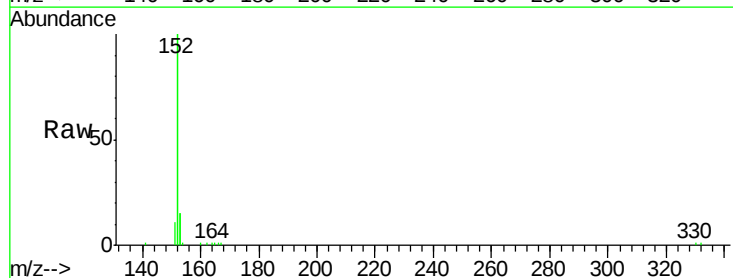
Tgt Ion:152 Resp: 16233

Ion Ratio Lower Upper

152 100

151 5.0 3.9 5.9

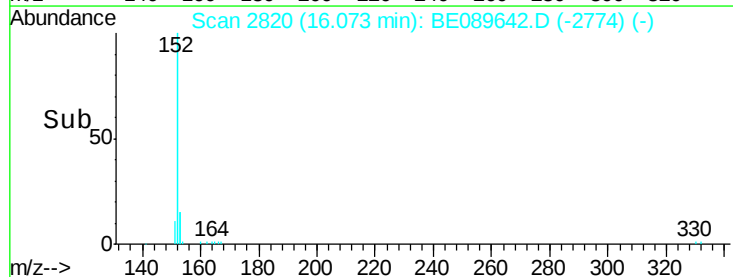
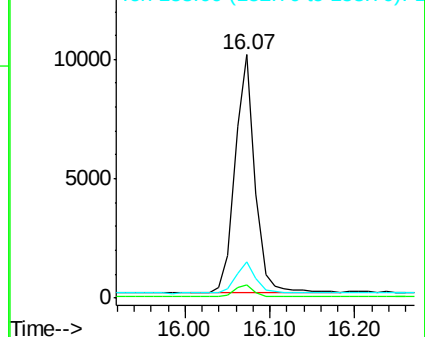
153 13.2 10.5 15.7

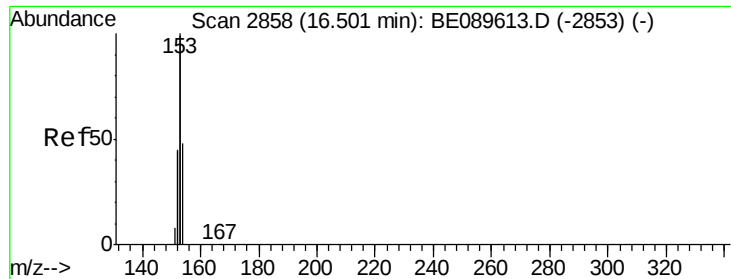


Abundance Ion 152.00 (151.70 to 152.70): E

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: BE089642.D

Acq: 20 Feb 2015 1:09

Instrument :

BNA_E

ClientSampleId :

MDL-04-W

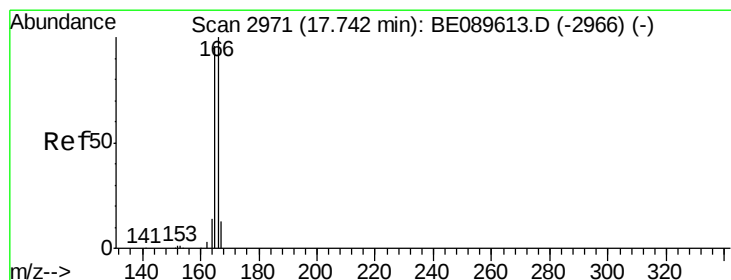
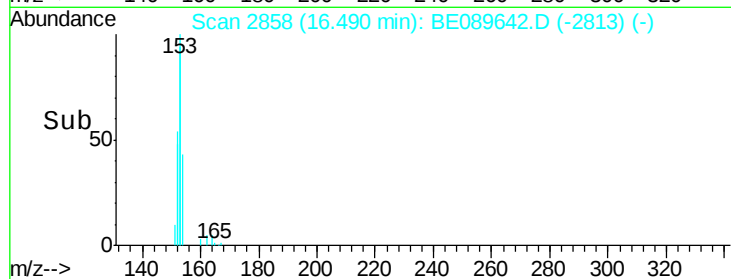
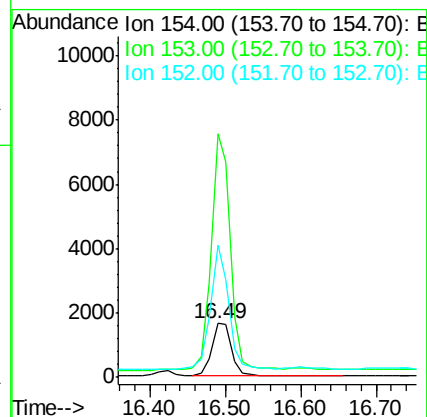
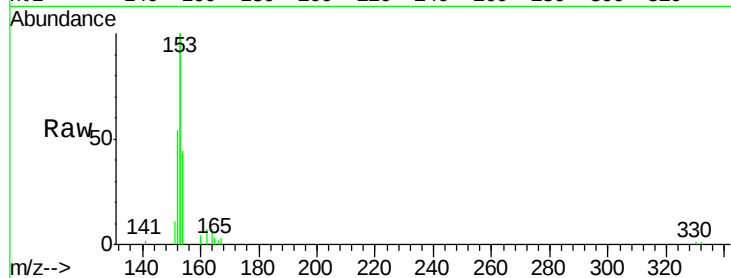
Tgt Ion:154 Resp: 2919

Ion Ratio Lower Upper

154 100

153 441.8 348.9 523.3

152 223.8 166.6 249.8



#12

Fluorene

Concen: 0.15 ng

RT: 17.74 min Scan# 2972

Delta R.T. 0.00 min

Lab File: BE089642.D

Acq: 20 Feb 2015 1:09

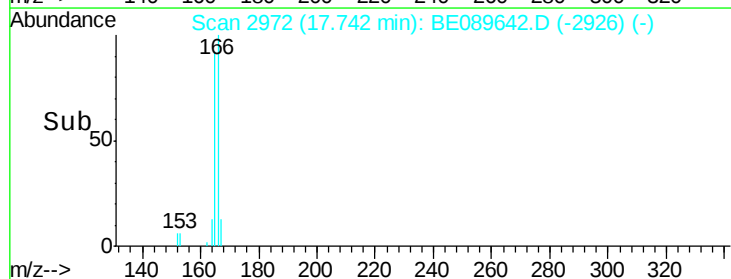
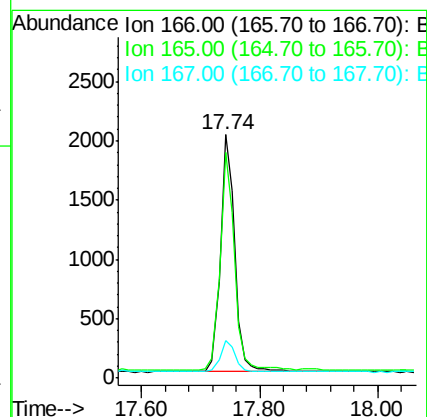
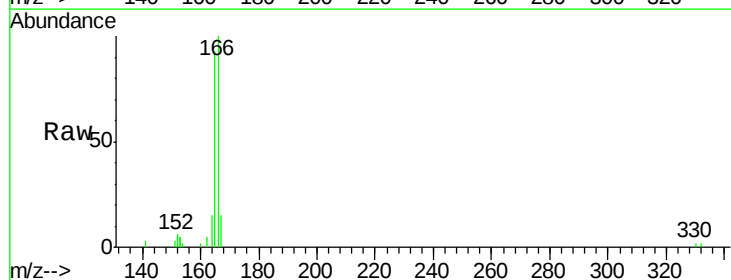
Tgt Ion:166 Resp: 3368

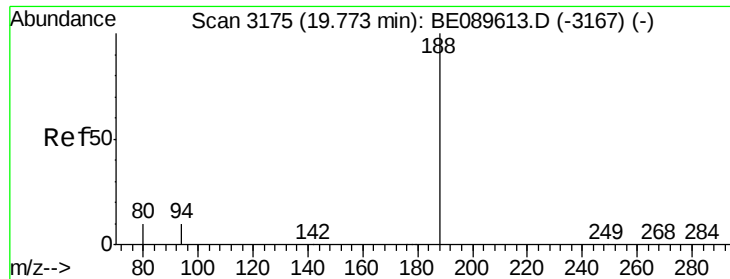
Ion Ratio Lower Upper

166 100

165 92.1 74.7 112.1

167 13.7 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: BE089642.D

Acq: 20 Feb 2015 1:09

Instrument :

BNA_E

ClientSampleId :

MDL-04-W

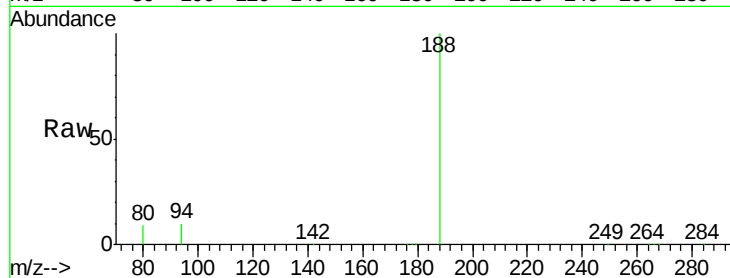
Tgt Ion:188 Resp: 143322

Ion Ratio Lower Upper

188 100

94 9.6 8.2 12.4

80 9.3 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

150000

100000

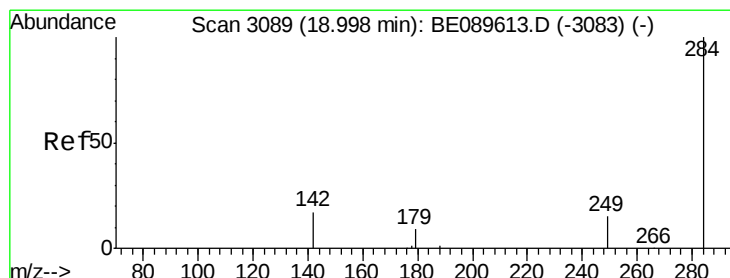
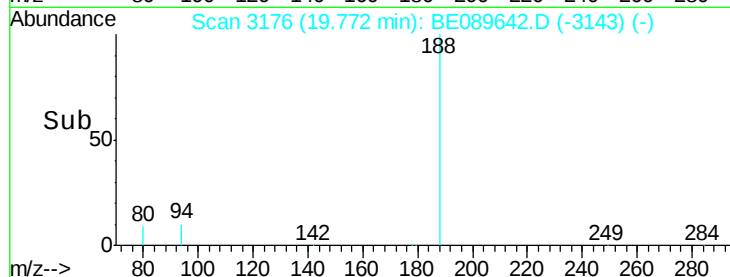
50000

0

19.77

19.70 19.80 19.90

Time-->



#14

Hexachlorobenzene

Concen: 0.17 ng

RT: 19.00 min Scan# 3090

Delta R.T. -0.00 min

Lab File: BE089642.D

Acq: 20 Feb 2015 1:09

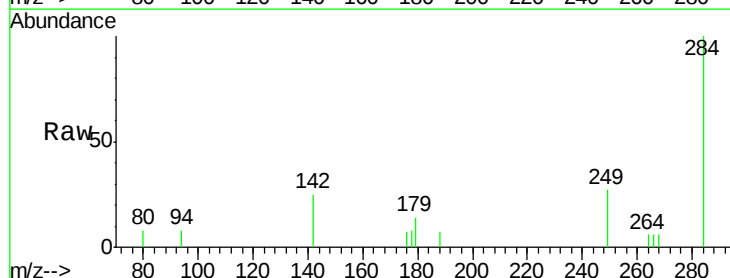
Tgt Ion:284 Resp: 1029

Ion Ratio Lower Upper

284 100

142 46.2 32.3 48.5

249 28.1 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

1000

800

600

400

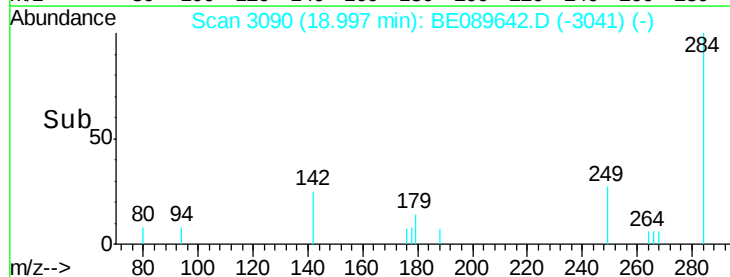
200

0

19.00

18.90 18.95 19.00 19.05

Time-->

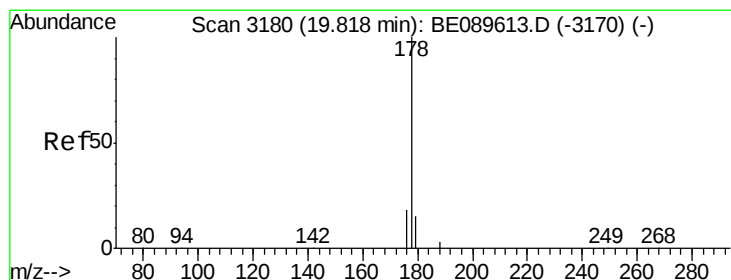
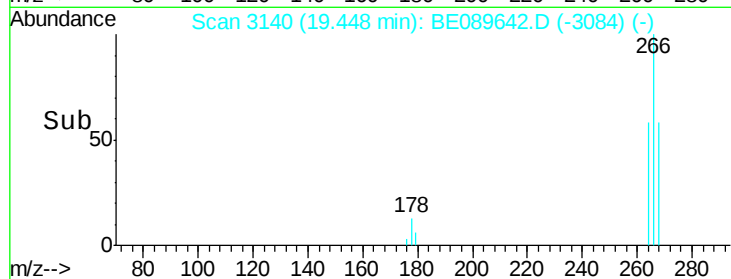
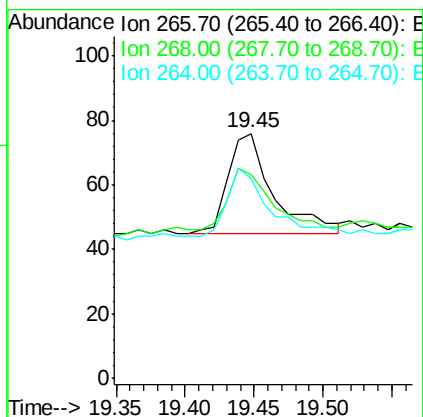
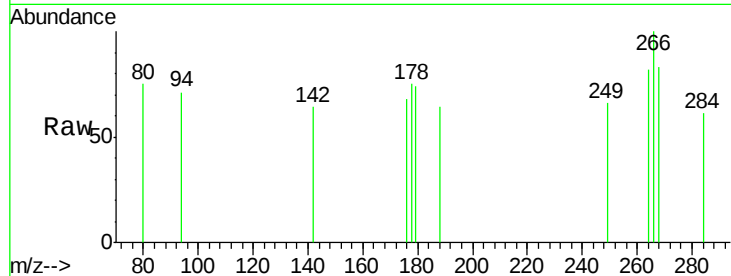




#15
 Pentachlorophenol
 Concen: 0.05 ng
 RT: 19.45 min Scan# 3140
 Delta R.T. 0.01 min
 Lab File: BE089642.D
 Acq: 20 Feb 2015 1:09

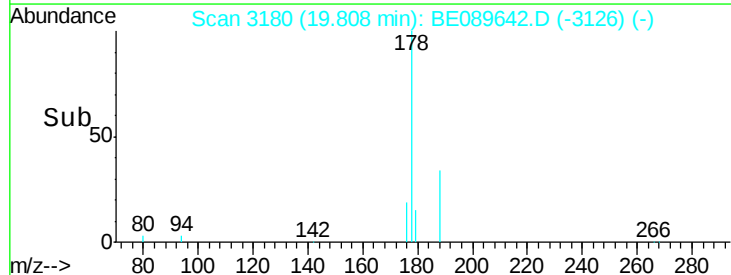
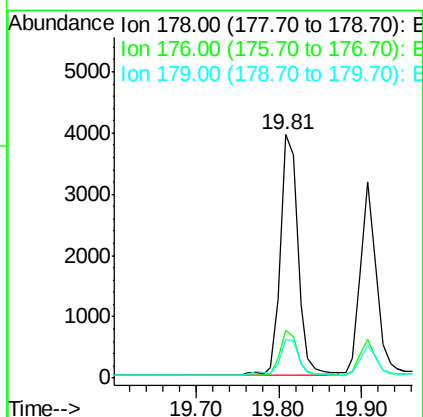
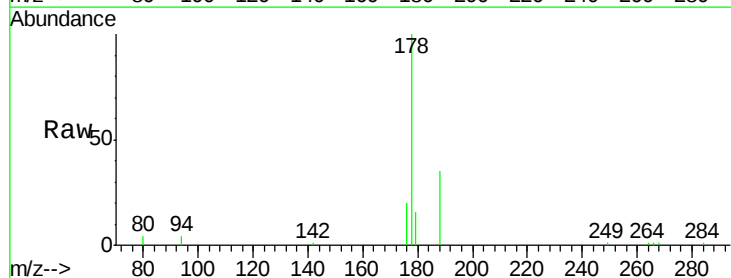
Instrument :
 BNA_E
 ClientSampleId :
 MDL-04-W

Tgt Ion: 266 Resp: 70
 Ion Ratio Lower Upper
 266 100
 268 82.9 52.6 79.0#
 264 81.6 51.8 77.8#



#16
 Phenanthrene
 Concen: 0.16 ng
 RT: 19.81 min Scan# 3180
 Delta R.T. -0.01 min
 Lab File: BE089642.D
 Acq: 20 Feb 2015 1:09

Tgt Ion: 178 Resp: 5754
 Ion Ratio Lower Upper
 178 100
 176 18.4 15.1 22.7
 179 16.4 12.3 18.5

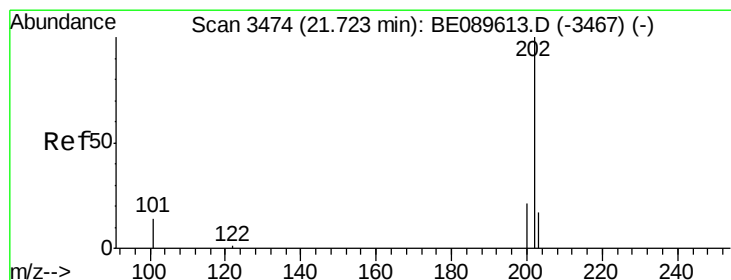
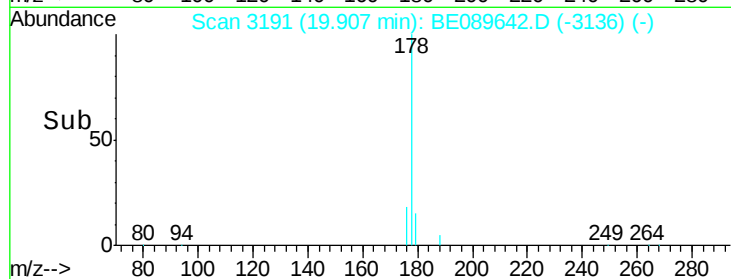
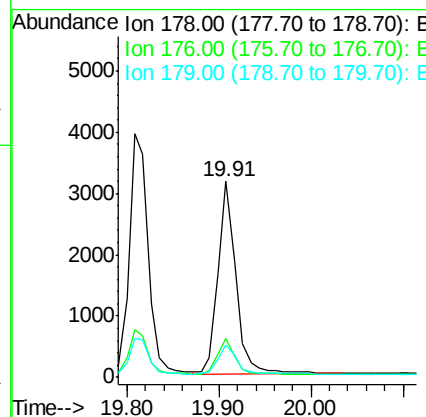
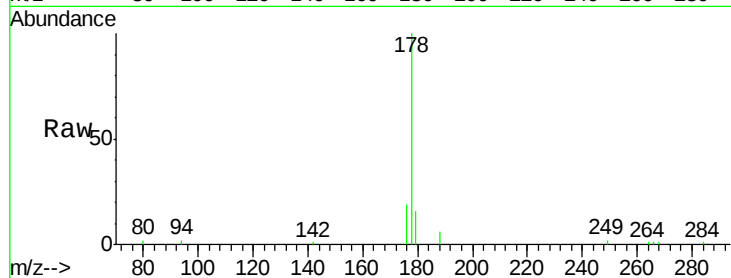




#17
 Anthracene
 Concen: 0.14 ng
 RT: 19.91 min Scan# 3191
 Delta R.T. -0.00 min
 Lab File: BE089642.D
 Acq: 20 Feb 2015 1:09

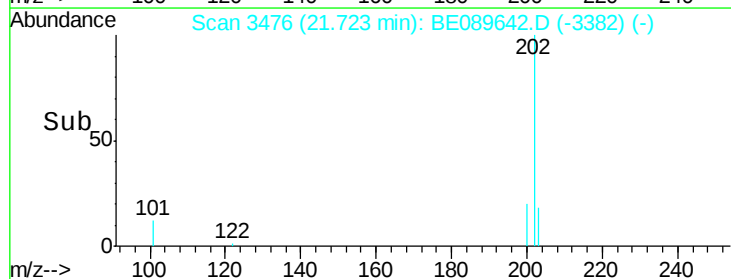
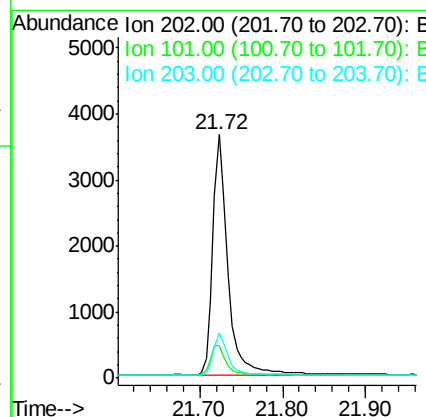
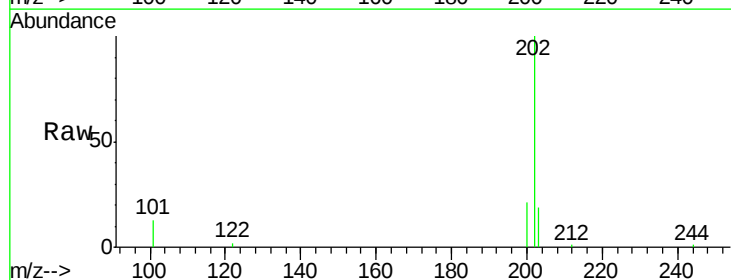
Instrument :
 BNA_E
 ClientSampleId :
 MDL-04-W

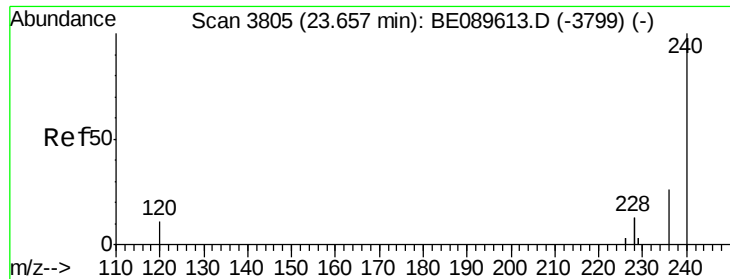
Tgt Ion:178 Resp: 4240
 Ion Ratio Lower Upper
 178 100
 176 18.5 14.6 22.0
 179 15.5 12.3 18.5



#18
 Fluoranthene
 Concen: 0.14 ng
 RT: 21.72 min Scan# 3476
 Delta R.T. 0.00 min
 Lab File: BE089642.D
 Acq: 20 Feb 2015 1:09

Tgt Ion:202 Resp: 4662
 Ion Ratio Lower Upper
 202 100
 101 12.5 10.4 15.6
 203 17.0 13.9 20.9





#19

Chrysene-d12

Concen: 5.00 ng

RT: 23.66 min Scan# 3807

Delta R.T. -0.00 min

Lab File: BE089642.D

Acq: 20 Feb 2015 1:09

Instrument :

BNA_E

ClientSampleId :

MDL-04-W

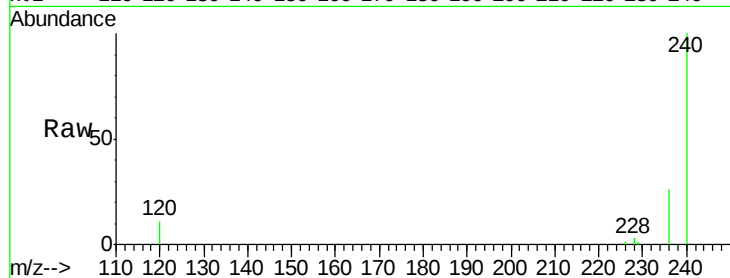
Tgt Ion:240 Resp: 135795

Ion Ratio Lower Upper

240 100

120 10.7 9.0 13.4

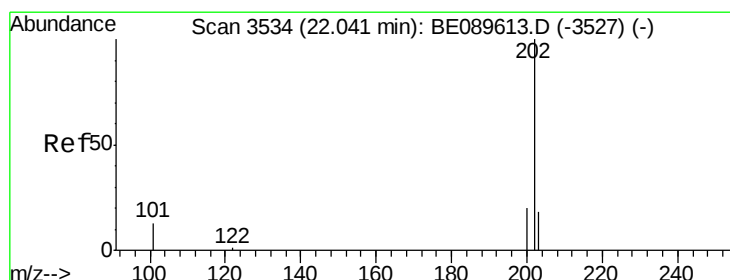
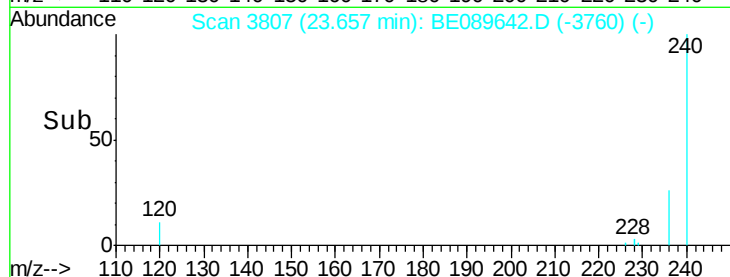
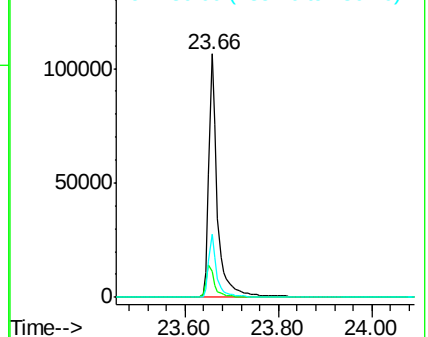
236 25.7 21.0 31.6



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: 0.15 ng

RT: 22.04 min Scan# 3536

Delta R.T. 0.00 min

Lab File: BE089642.D

Acq: 20 Feb 2015 1:09

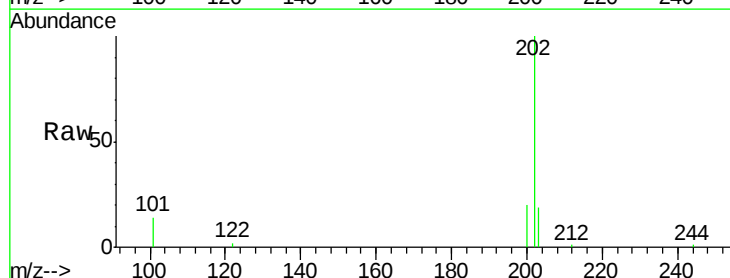
Tgt Ion:202 Resp: 5049

Ion Ratio Lower Upper

202 100

200 20.4 16.3 24.5

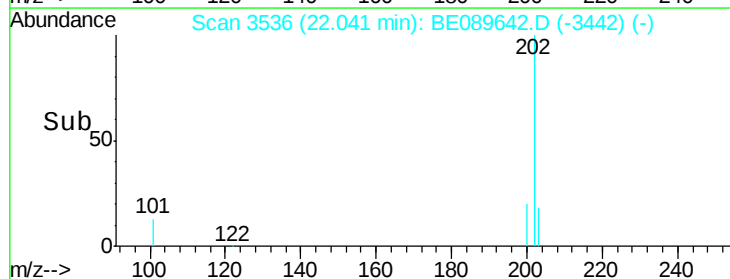
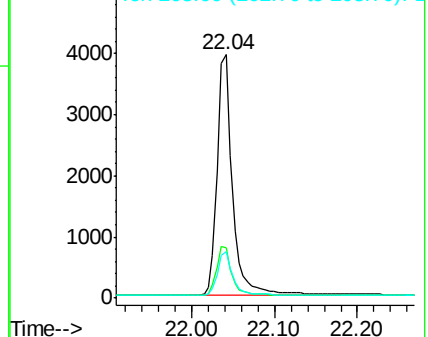
203 17.7 13.8 20.8



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: 12.63 ng

RT: 22.30 min Scan# 3585

Delta R.T. 0.00 min

Lab File: BE089642.D

Acq: 20 Feb 2015 1:09

Instrument :

BNA_E

ClientSampleId :

MDL-04-W

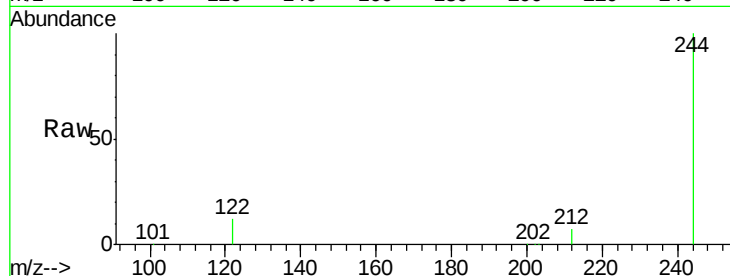
Tgt Ion:244 Resp: 246700

Ion Ratio Lower Upper

244 100

212 6.6 5.8 8.8

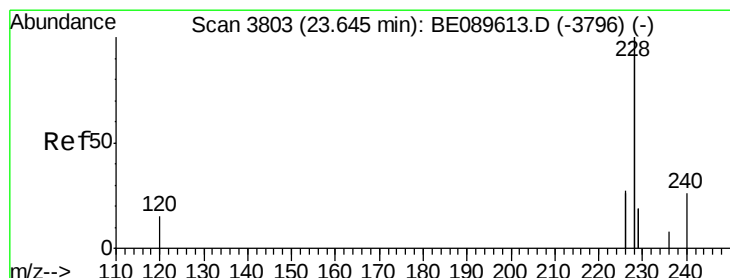
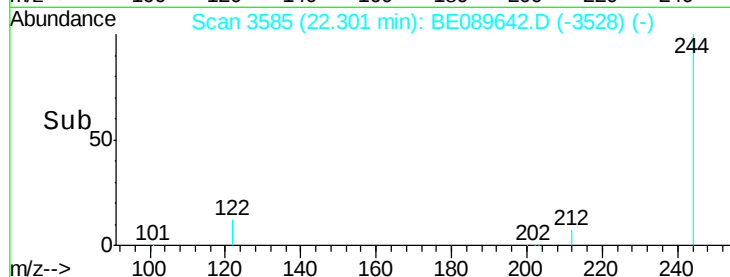
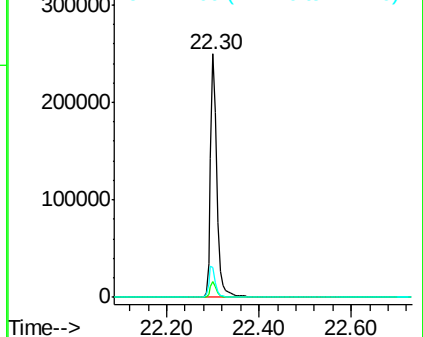
122 12.1 11.8 17.8



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: 0.13 ng

RT: 23.65 min Scan# 3806

Delta R.T. 0.01 min

Lab File: BE089642.D

Acq: 20 Feb 2015 1:09

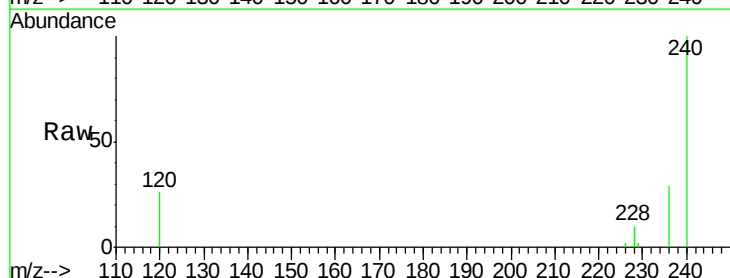
Tgt Ion:228 Resp: 15471

Ion Ratio Lower Upper

228 100

226 24.8 21.2 31.8

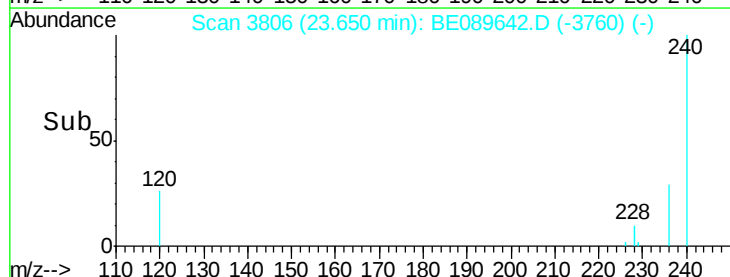
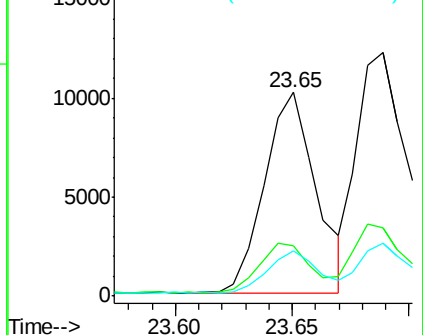
229 22.4 15.2 22.8



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: 23.69 min Scan# 3812

Delta R.T. -0.00 min

Lab File: BE089642.D

Acq: 20 Feb 2015 1:09

Instrument :

BNA_E

ClientSampleId :

MDL-04-W

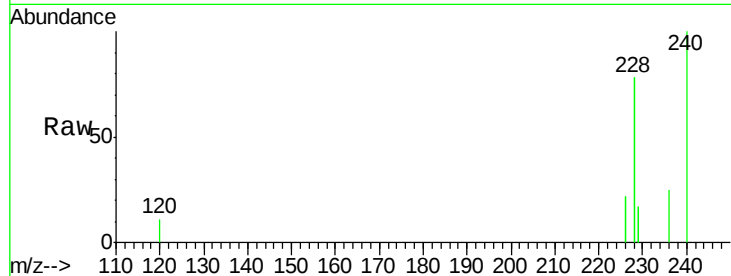
Tgt Ion:228 Resp: 25354

Ion Ratio Lower Upper

228 100

226 28.3 22.2 33.4

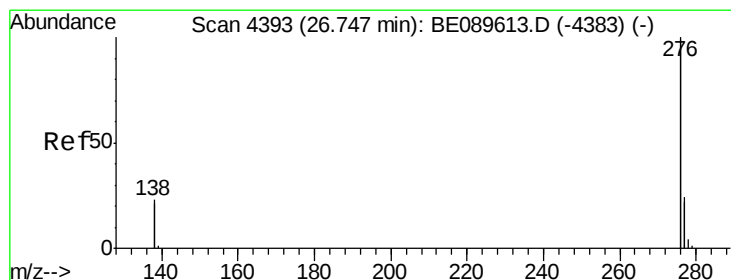
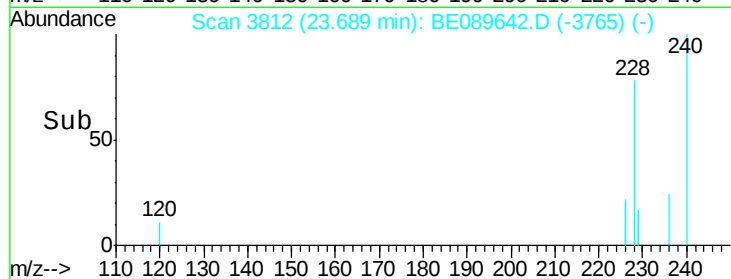
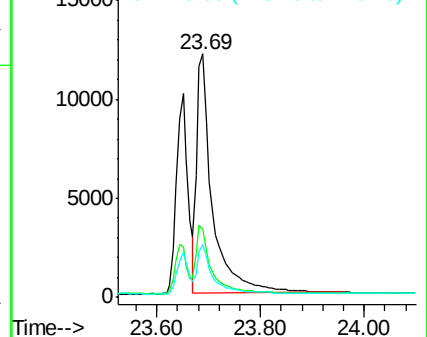
229 21.6 16.0 24.0



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: 0.22 ng

RT: 26.74 min Scan# 4394

Delta R.T. -0.01 min

Lab File: BE089642.D

Acq: 20 Feb 2015 1:09

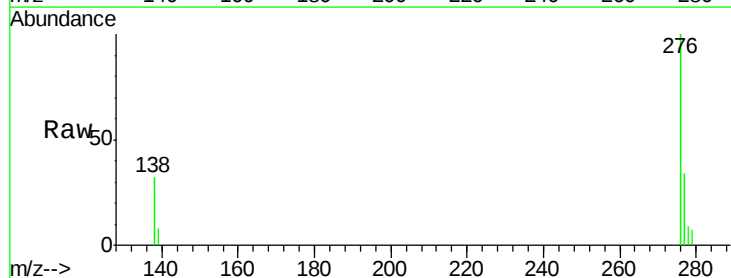
Tgt Ion:276 Resp: 5854

Ion Ratio Lower Upper

276 100

138 22.5 21.4 32.2

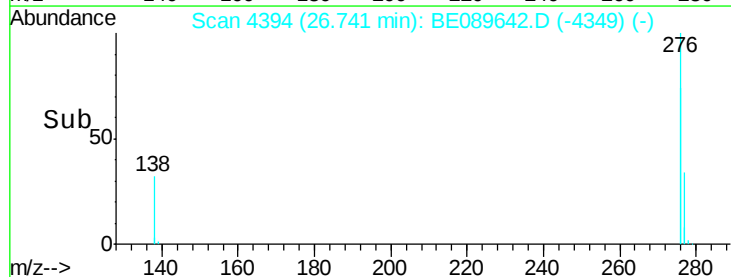
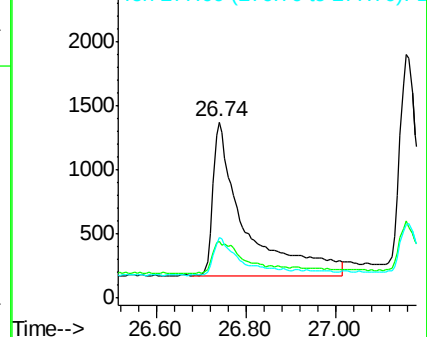
277 19.9 19.9 29.9

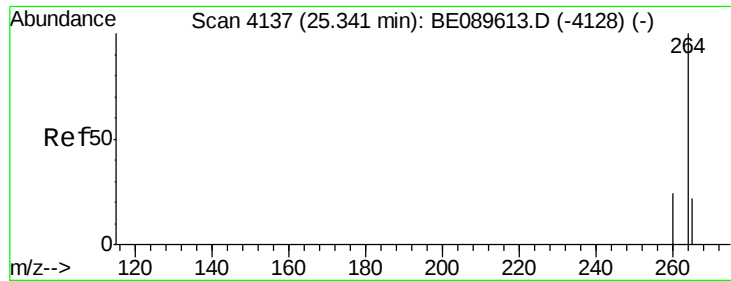


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

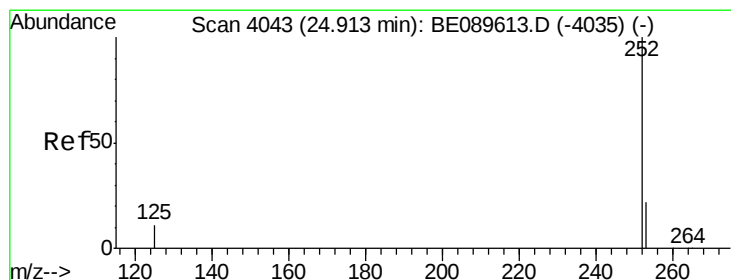
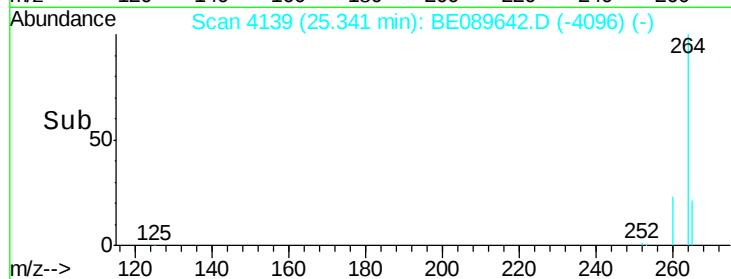
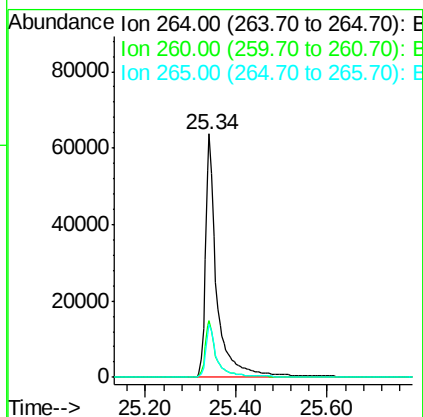
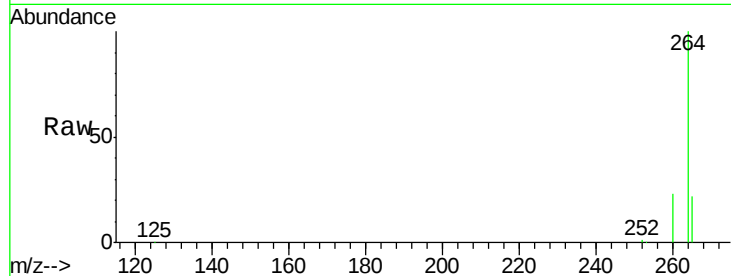




#25
 Perylene-d12
 Concen: 5.00 ng
 RT: 25.34 min Scan# 4139
 Delta R.T. 0.00 min
 Lab File: BE089642.D
 Acq: 20 Feb 2015 1:09

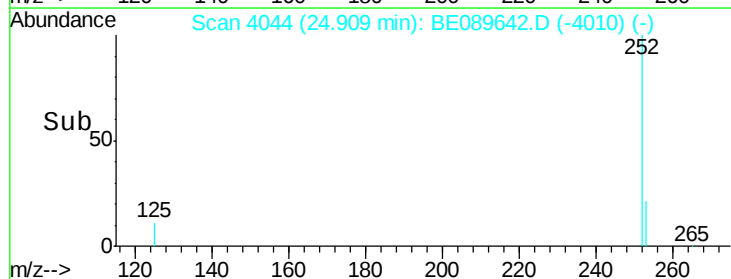
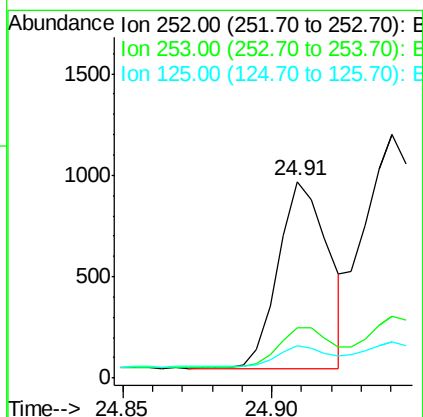
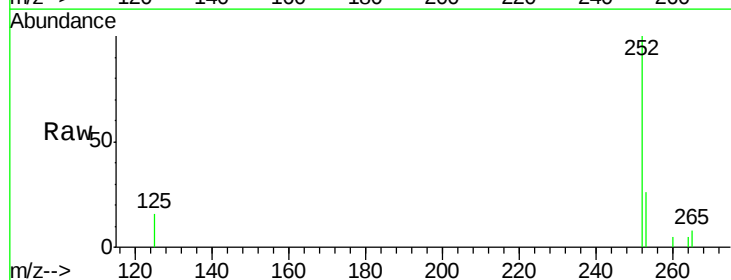
Instrument :
 BNA_E
 ClientSampleId :
 MDL-04-W

Tgt Ion:264 Resp: 110972
 Ion Ratio Lower Upper
 264 100
 260 23.5 19.0 28.6
 265 21.6 17.4 26.0



#26
 Benzo(b)fluoranthene
 Concen: 0.31 ng
 RT: 24.91 min Scan# 4044
 Delta R.T. -0.00 min
 Lab File: BE089642.D
 Acq: 20 Feb 2015 1:09

Tgt Ion:252 Resp: 1073
 Ion Ratio Lower Upper
 252 100
 253 25.6 17.6 26.4
 125 16.2 8.8 13.2#





#27

Benzo(k)fluoranthene

Concen: 0.10 ng

RT: 24.94 min Scan# 4051

Delta R.T. -0.00 min

Lab File: BE089642.D

Acq: 20 Feb 2015 1:09

Instrument :

BNA_E

ClientSampleId :

MDL-04-W

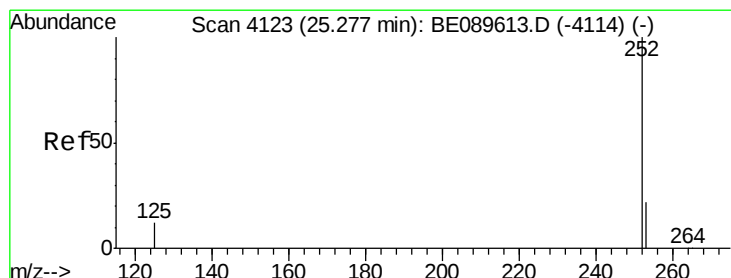
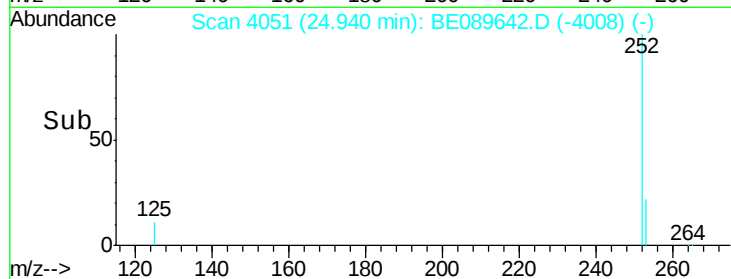
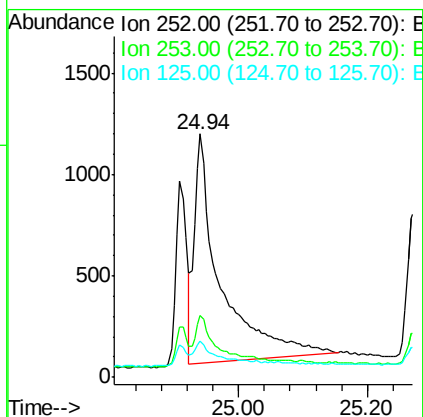
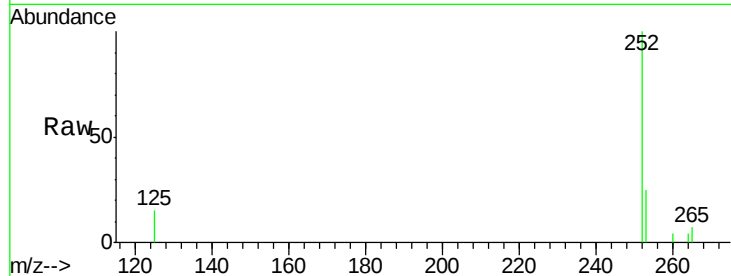
Tgt Ion:252 Resp: 3183

Ion Ratio Lower Upper

252 100

253 25.2 17.7 26.5

125 14.8 8.8 13.2#



#28

Benzo(a)pyrene

Concen: 0.29 ng

RT: 25.27 min Scan# 4124

Delta R.T. -0.00 min

Lab File: BE089642.D

Acq: 20 Feb 2015 1:09

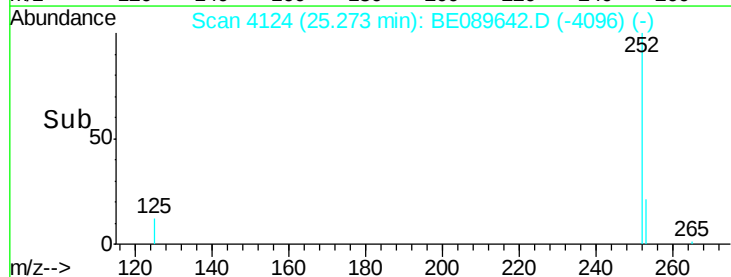
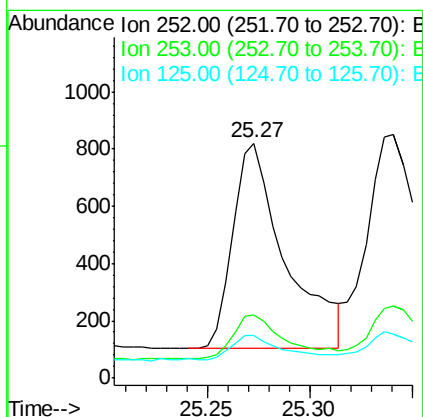
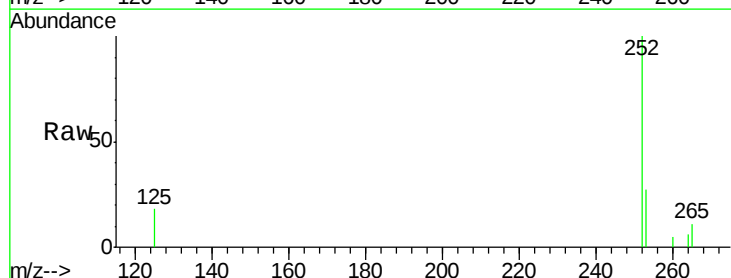
Tgt Ion:252 Resp: 1280

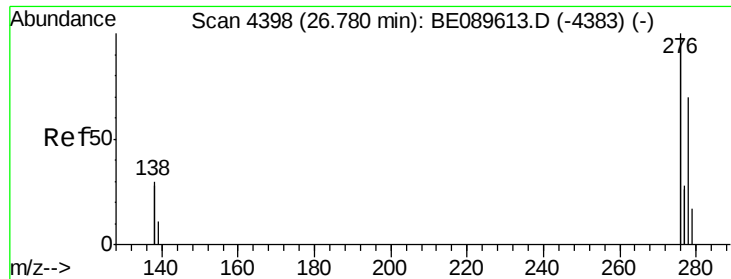
Ion Ratio Lower Upper

252 100

253 27.0 18.1 27.1

125 18.3 9.6 14.4#





#29

Dibenzo(a,h)anthracene

Concen: 0.27 ng

RT: 26.77 min Scan# 4399

Delta R.T. -0.01 min

Lab File: BE089642.D

Acq: 20 Feb 2015 1:09

Instrument :

BNA_E

ClientSampleId :

MDL-04-W

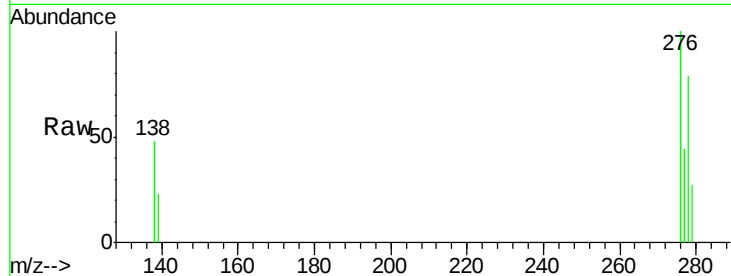
Tgt Ion: 278 Resp: 890

Ion Ratio Lower Upper

278 100

139 28.6 13.7 20.5#

279 34.6 19.7 29.5#

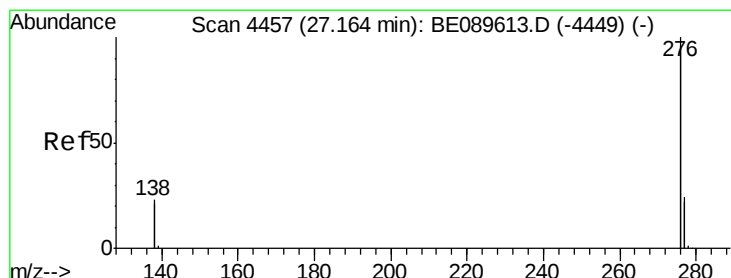
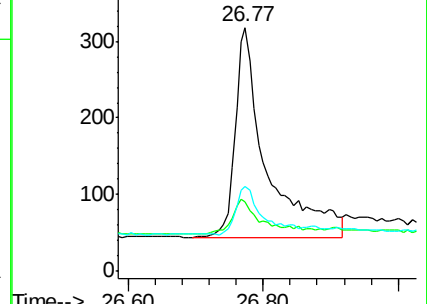
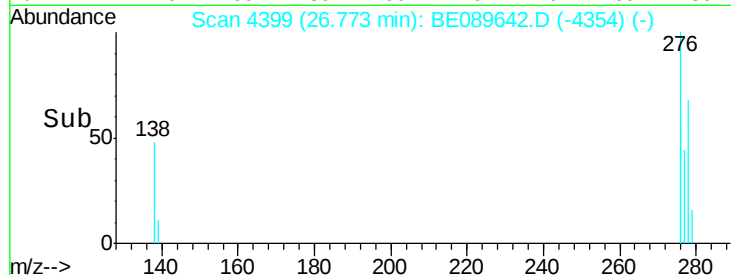


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E

Time-->



#30

Benzo(g,h,i)perylene

Concen: 0.21 ng

RT: 27.16 min Scan# 4458

Delta R.T. -0.01 min

Lab File: BE089642.D

Acq: 20 Feb 2015 1:09

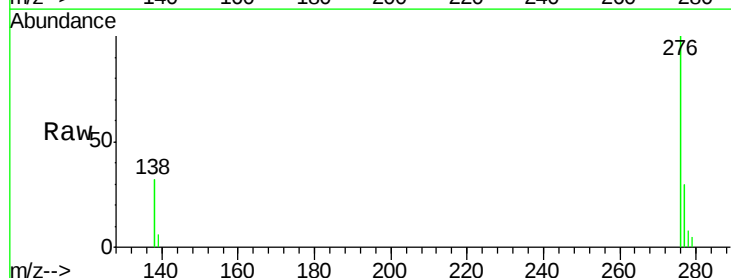
Tgt Ion: 276 Resp: 7515

Ion Ratio Lower Upper

276 100

277 30.4 19.1 28.7#

138 31.8 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

Time-->

