

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE021815\
 Data File : BE089645.D
 Acq On : 20 Feb 2015 3:05
 Operator : TP/IZ
 Sample : MDL-07-W
 Misc : MDL-WATER-0.2/0.4
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 MDL-08-W

Quant Time: Feb 20 03:49:43 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

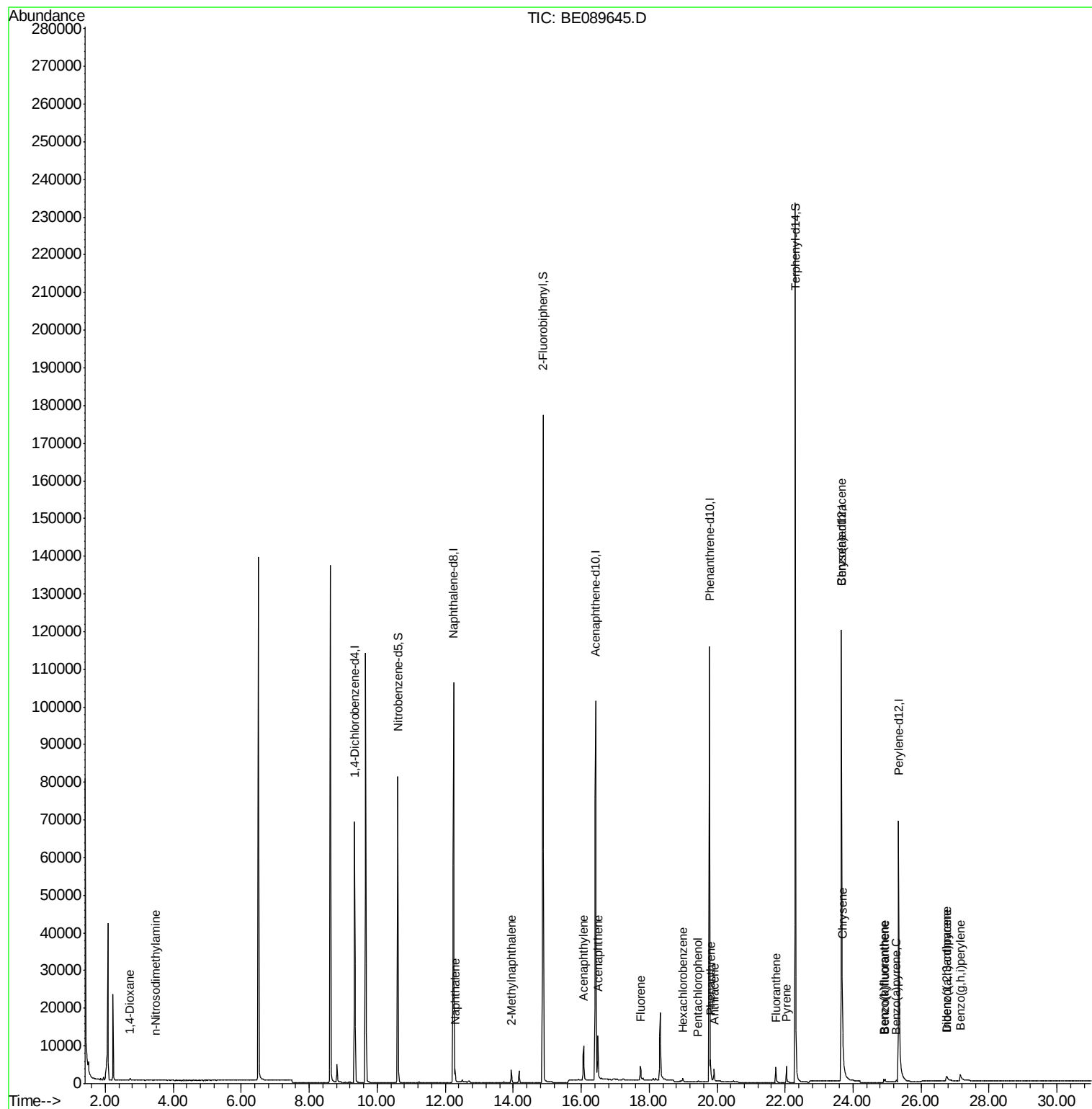
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.34	152	32367	5.00	ng	0.00
4) Naphthalene-d8	12.24	136	127752	5.00	ng	0.00
8) Acenaphthene-d10	16.42	164	63145	5.00	ng	0.00
13) Phenanthrene-d10	19.77	188	123826	5.00	ng	0.00
19) Chrysene-d12	23.66	240	113467	5.00	ng	0.00
25) Perylene-d12	25.34	264	90359	5.00	ng	0.00
System Monitoring Compounds						
5) Nitrobenzene-d5	10.61	82	58962	10.62	ng	0.00
9) 2-Fluorobiphenyl	14.88	172	163806	9.68	ng	0.00
21) Terphenyl-d14	22.30	244	197387	12.10	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.72	88	539	0.14	ng	# 82
3) n-Nitrosodimethylamine	3.49	42	428	0.11	ng	84
6) Naphthalene	12.29	128	4397	0.15	ng	96
7) 2-Methylnaphthalene	13.95	142	2454	0.14	ng	100
10) Acenaphthylene	16.07	152	13127	0.13	ng	100
11) Acenaphthene	16.49	154	2436	0.15	ng	96
12) Fluorene	17.74	166	2753	0.14	ng	98
14) Hexachlorobenzene	19.00	284	872	0.16	ng	95
15) Pentachlorophenol	19.44	266	53	0.04	ng	# 68
16) Phenanthrene	19.81	178	4584	0.15	ng	99
17) Anthracene	19.91	178	3435	0.13	ng	97
18) Fluoranthene	21.72	202	3492	0.12	ng	99
20) Pyrene	22.04	202	3806	0.14	ng	99
22) Benzo(a)anthracene	23.65	228	10878	0.11	ng	96
23) Chrysene	23.69	228	19747	0.18	ng	98
24) Indeno(1,2,3-cd)pyrene	26.74	276	3095	0.20	ng	98
26) Benzo(b)fluoranthene	24.91	252	828	0.31	ng	# 83
27) Benzo(k)fluoranthene	24.94	252	1631	0.06	ng	# 90
28) Benzo(a)pyrene	25.27	252	857	0.28	ng	# 84
29) Dibenzo(a,h)anthracene	26.77	278	559	0.26	ng	# 68
30) Benzo(g,h,i)perylene	27.16	276	5052	0.19	ng	# 77

(#) = 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# 1300

Delta R.T. -0.00 min

Lab File: BE089645.D

Acq: 20 Feb 2015 3:05

Instrument :

BNA_E

ClientSampleId :

MDL-08-W

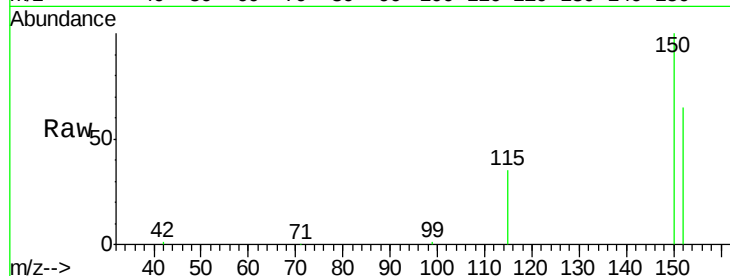
Tgt Ion: 152 Resp: 32367

Ion Ratio Lower Upper

152 100

150 152.8 122.4 183.6

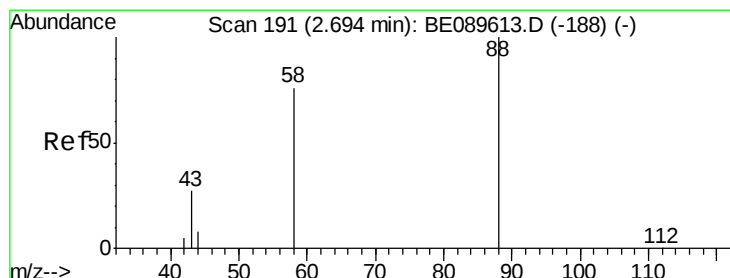
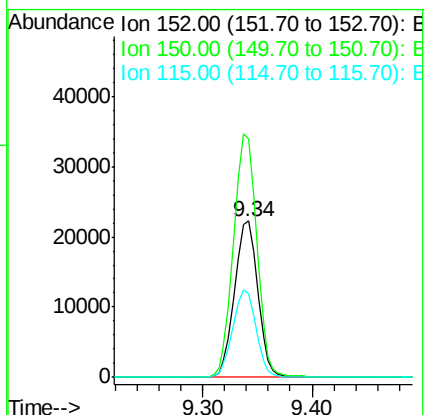
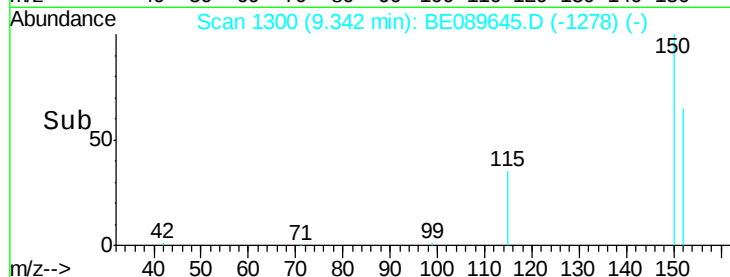
115 53.3 44.2 66.2



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: 0.14 ng

RT: 2.72 min Scan# 195

Delta R.T. 0.03 min

Lab File: BE089645.D

Acq: 20 Feb 2015 3:05

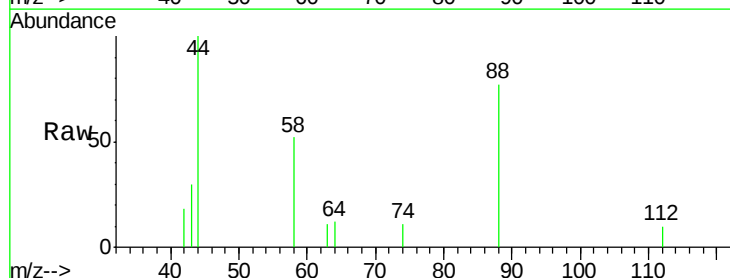
Tgt Ion: 88 Resp: 539

Ion Ratio Lower Upper

88 100

58 72.9 54.6 81.8

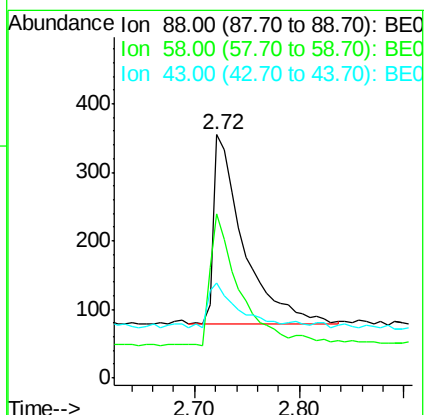
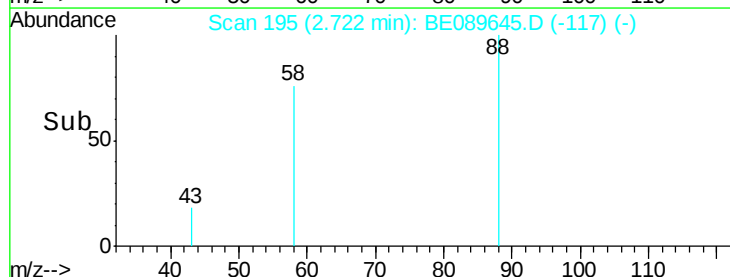
43 0.0 20.6 30.8#

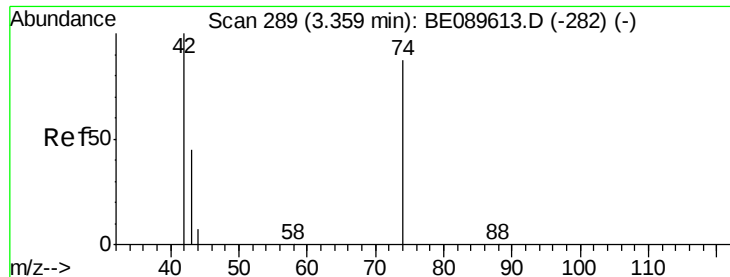


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0



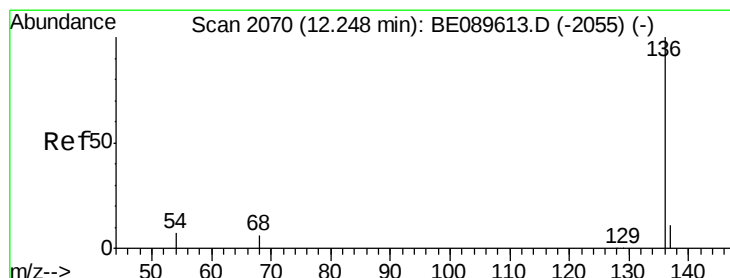
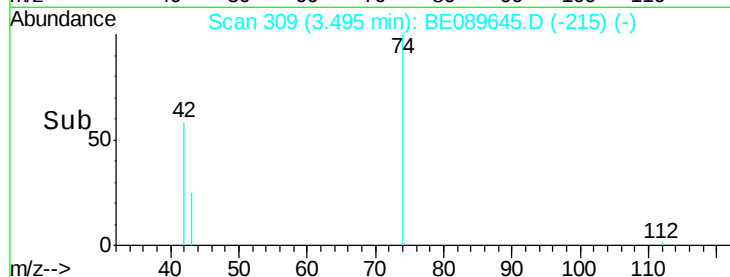
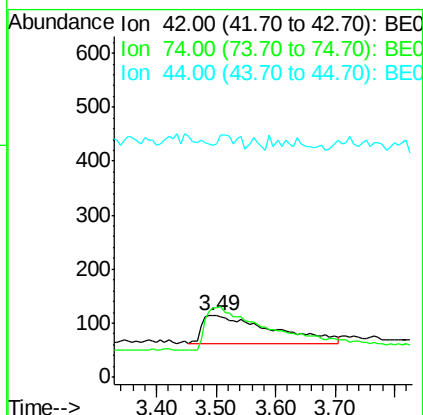
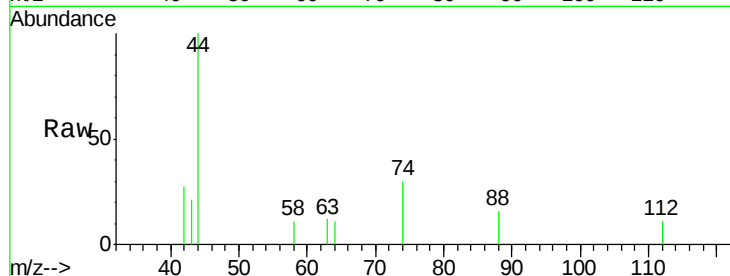


#3

n-Nitrosodimethylamine
 Concen: 0.11 ng
 RT: 3.49 min Scan# 309
 Delta R.T. 0.14 min
 Lab File: BE089645.D
 Acq: 20 Feb 2015 3:05

Instrument :
 BNA_E
 ClientSampleId :
 MDL-08-W

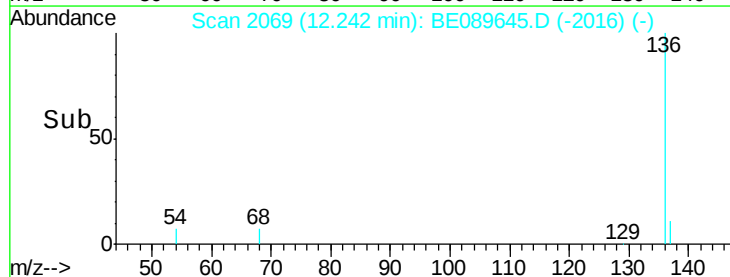
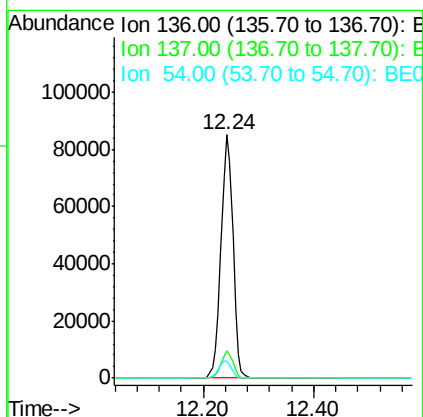
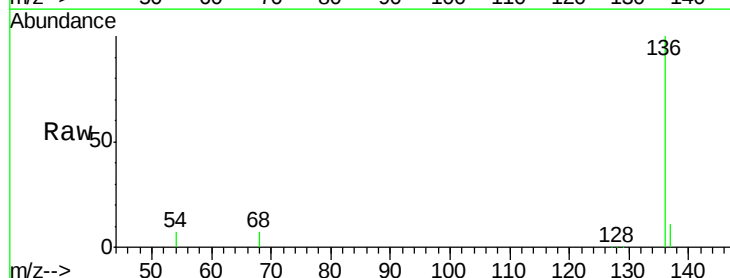
Tgt Ion: 42 Resp: 428
 Ion Ratio Lower Upper
 42 100
 74 130.8 121.4 182.0
 44 5.6 4.5 6.7

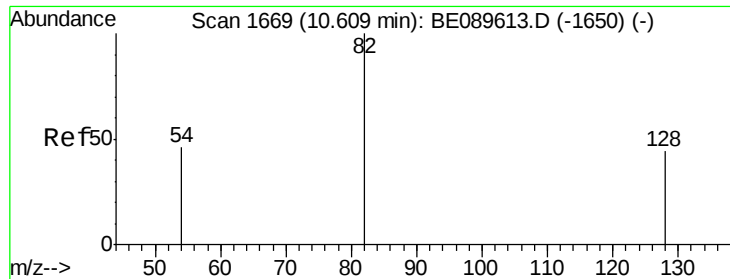


#4

Naphthalene-d8
 Concen: 5.00 ng
 RT: 12.24 min Scan# 2069
 Delta R.T. -0.01 min
 Lab File: BE089645.D
 Acq: 20 Feb 2015 3:05

Tgt Ion: 136 Resp: 127752
 Ion Ratio Lower Upper
 136 100
 137 11.0 8.9 13.3
 54 7.0 5.3 7.9





#5

Nitrobenzene-d5

Concen: 10.62 ng

RT: 10.61 min Scan# 1668

Delta R.T. -0.00 min

Lab File: BE089645.D

Acq: 20 Feb 2015 3:05

Instrument :

BNA_E

ClientSampled :

MDL-08-W

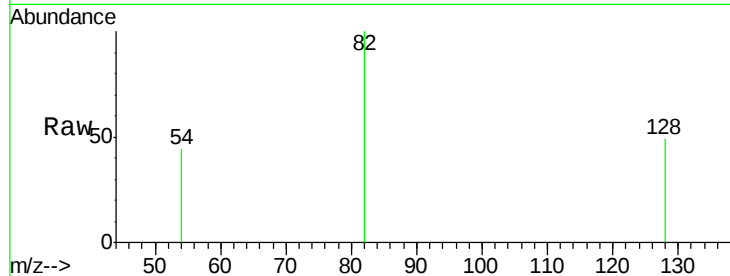
Tgt Ion: 82 Resp: 58962

Ion Ratio Lower Upper

82 100

128 48.6 35.5 53.3

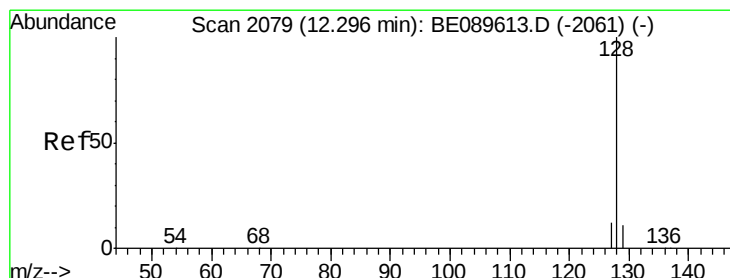
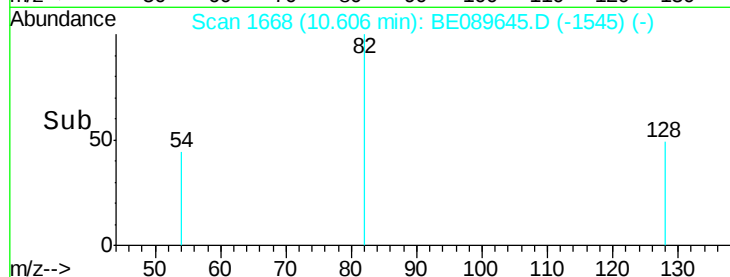
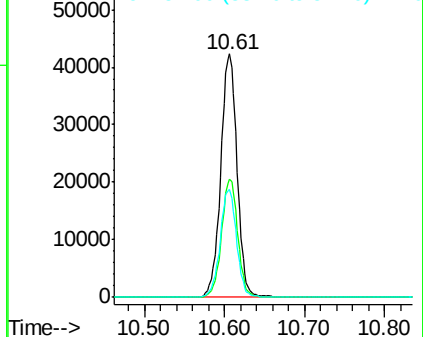
54 44.2 37.5 56.3



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: BE089645.D

Acq: 20 Feb 2015 3:05

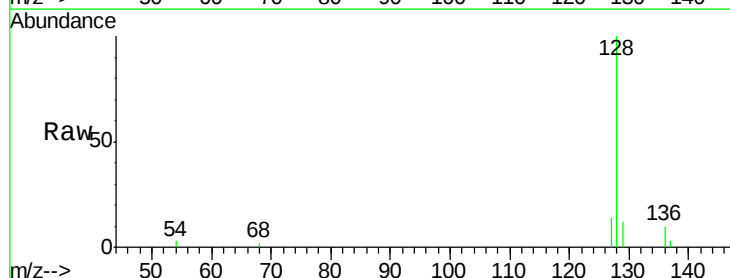
Tgt Ion: 128 Resp: 4397

Ion Ratio Lower Upper

128 100

129 12.4 8.9 13.3

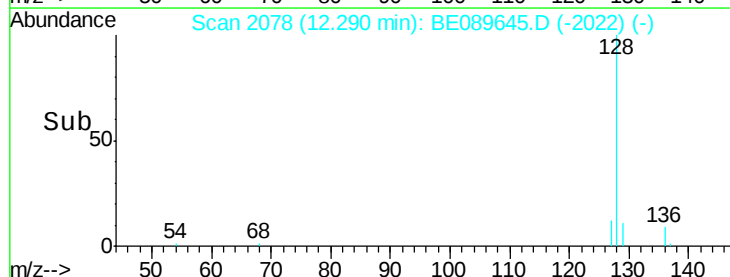
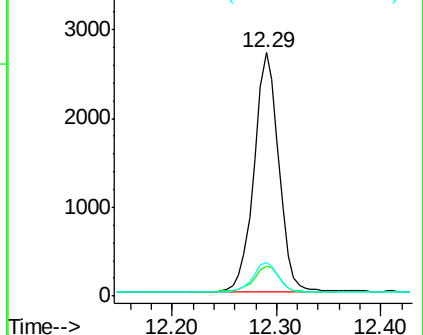
127 13.9 9.8 14.8



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: 0.14 ng

RT: 13.95 min Scan# 2417

Delta R.T. -0.00 min

Lab File: BE089645.D

Acq: 20 Feb 2015 3:05

Instrument :

BNA_E

ClientSampleId :

MDL-08-W

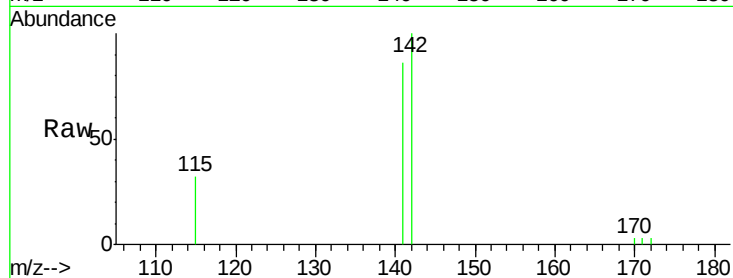
Tgt Ion:142 Resp: 2454

Ion Ratio Lower Upper

142 100

141 85.9 68.3 102.5

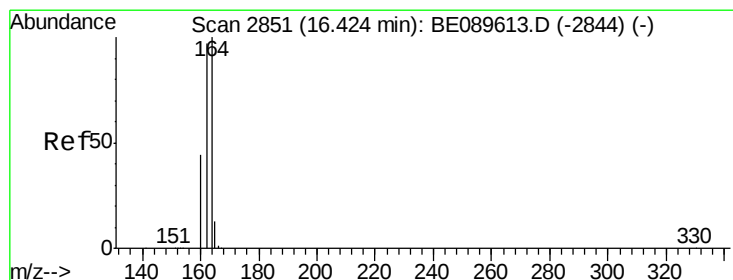
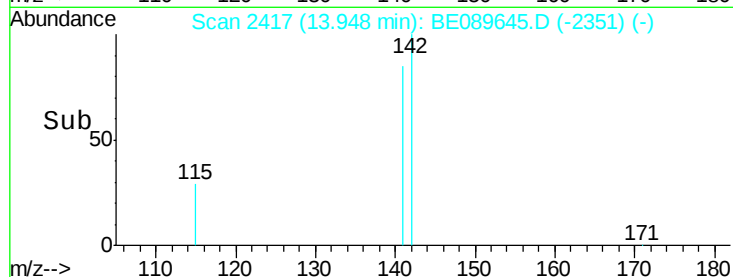
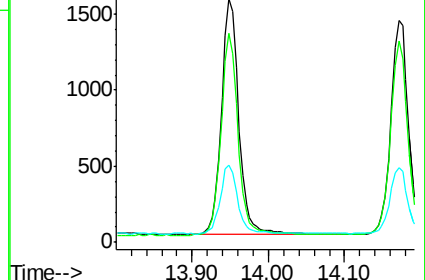
115 31.6 25.1 37.7



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: BE089645.D

Acq: 20 Feb 2015 3:05

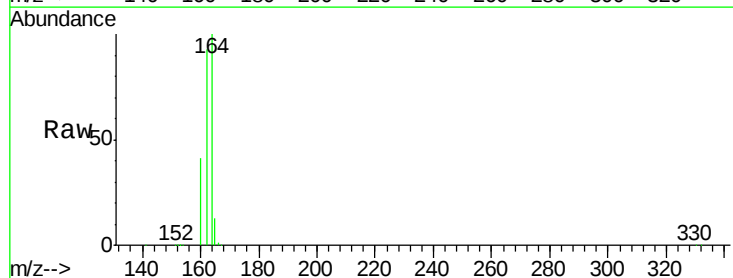
Tgt Ion:164 Resp: 63145

Ion Ratio Lower Upper

164 100

162 92.8 77.5 116.3

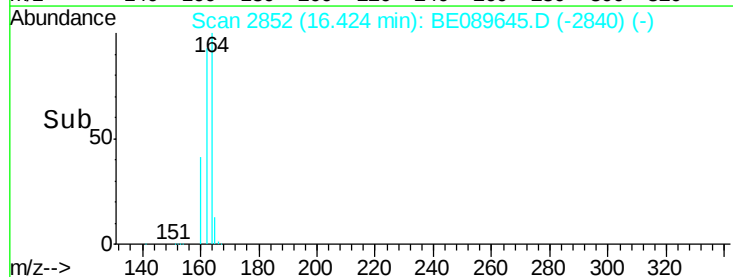
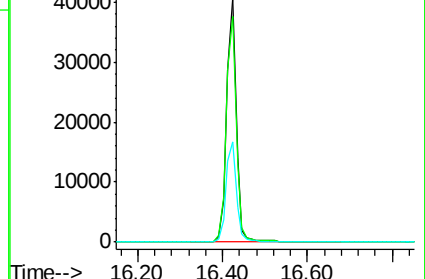
160 41.2 35.5 53.3



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: 9.68 ng

RT: 14.88 min Scan# 2621

Delta R.T. -0.01 min

Lab File: BE089645.D

Acq: 20 Feb 2015 3:05

Instrument :

BNA_E

ClientSampleId :

MDL-08-W

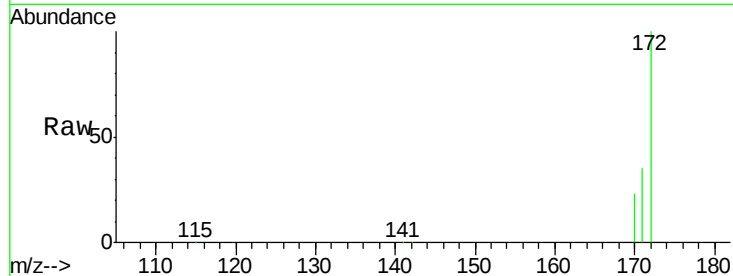
Tgt Ion:172 Resp: 163806

Ion Ratio Lower Upper

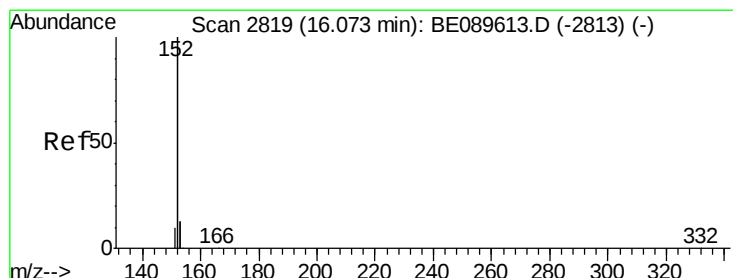
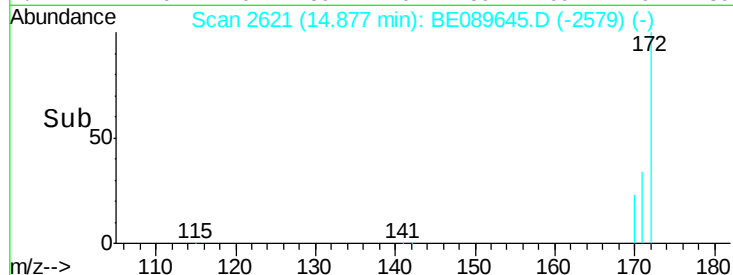
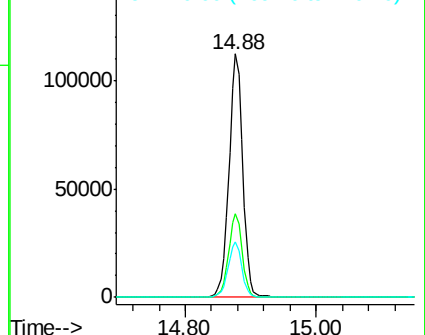
172 100

171 34.5 26.9 40.3

170 22.8 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: 0.13 ng

RT: 16.07 min Scan# 2820

Delta R.T. -0.00 min

Lab File: BE089645.D

Acq: 20 Feb 2015 3:05

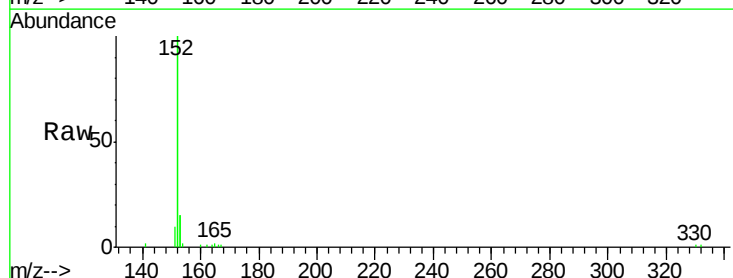
Tgt Ion:152 Resp: 13127

Ion Ratio Lower Upper

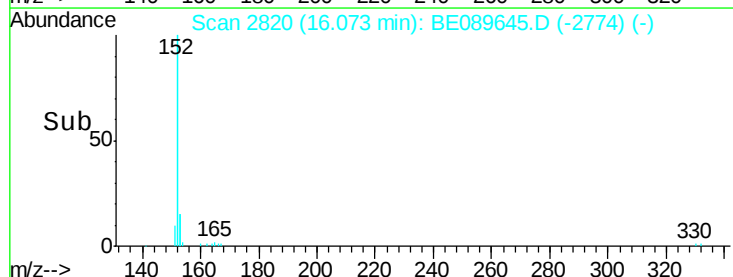
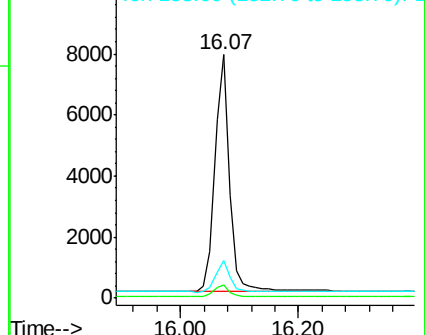
152 100

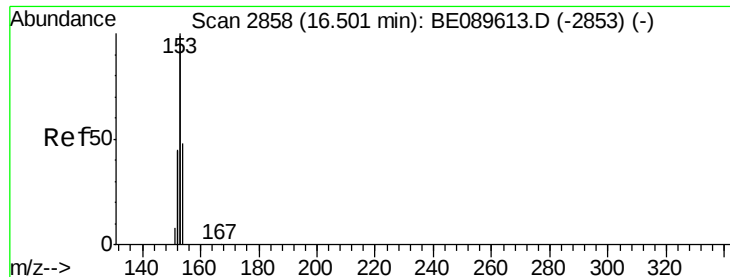
151 4.7 3.9 5.9

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: BE089645.D

Acq: 20 Feb 2015 3:05

Instrument :

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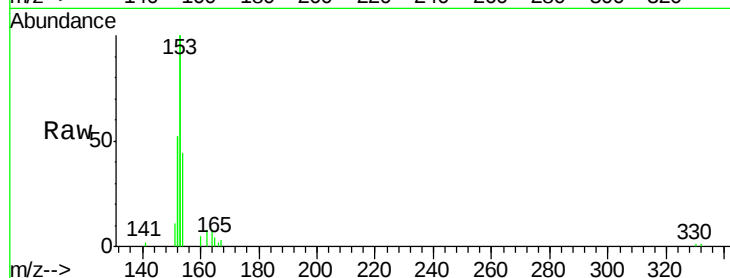
Tgt Ion:154 Resp: 2436

Ion Ratio Lower Upper

154 100

153 438.8 348.9 523.3

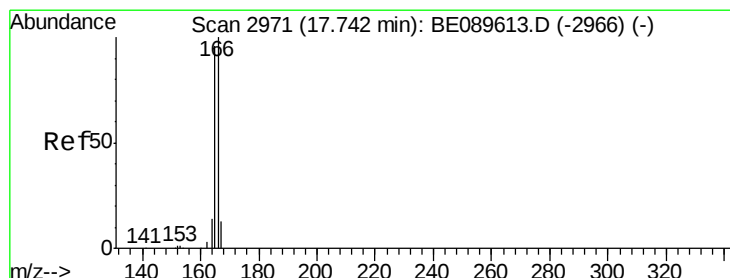
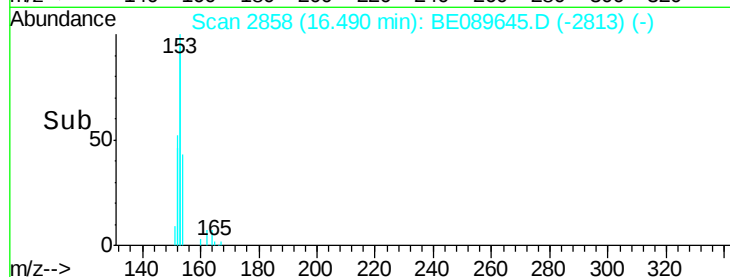
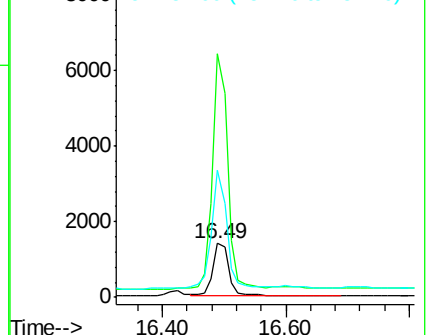
152 223.1 166.6 249.8



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: 0.14 ng

RT: 17.74 min Scan# 2972

Delta R.T. -0.00 min

Lab File: BE089645.D

Acq: 20 Feb 2015 3:05

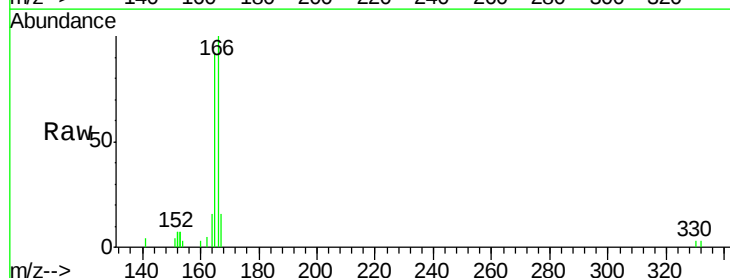
Tgt Ion:166 Resp: 2753

Ion Ratio Lower Upper

166 100

165 91.0 74.7 112.1

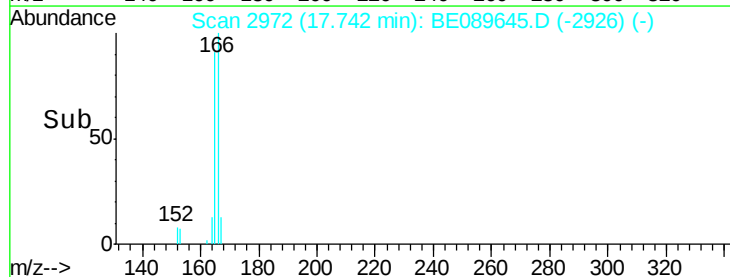
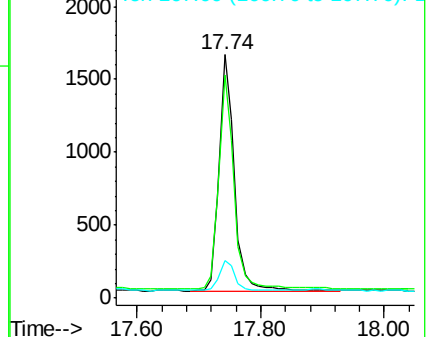
167 13.6 10.5 15.7

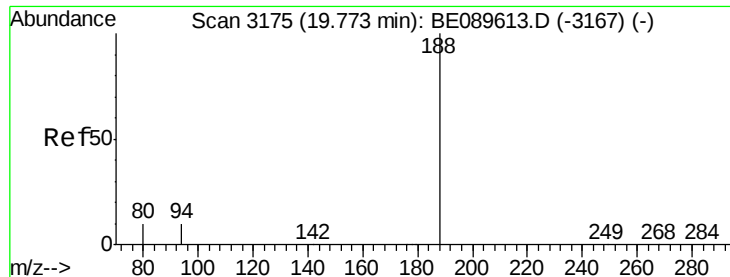


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E





#13

Phenanthrene-d10

Concen: 5.00 ng

RT: 19.77 min Scan# 3176

Delta R.T. -0.00 min

Lab File: BE089645.D

Acq: 20 Feb 2015 3:05

Instrument :

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MDL-08-W

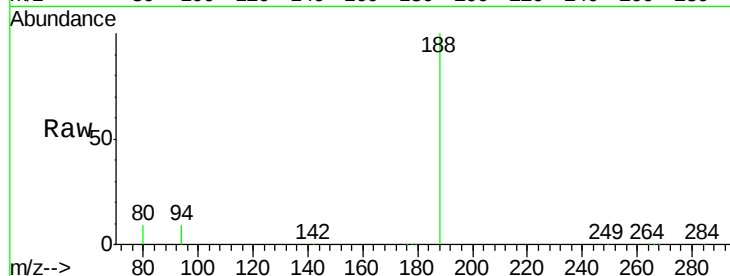
Tgt Ion:188 Resp: 123826

Ion Ratio Lower Upper

188 100

94 9.2 8.2 12.4

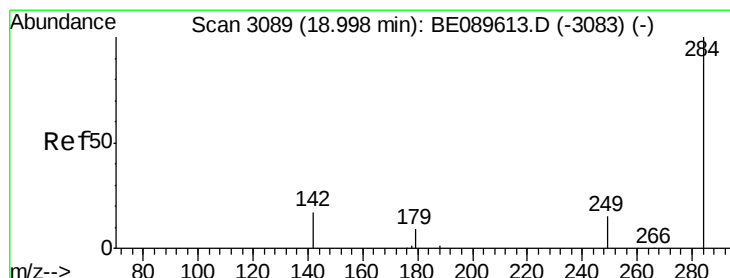
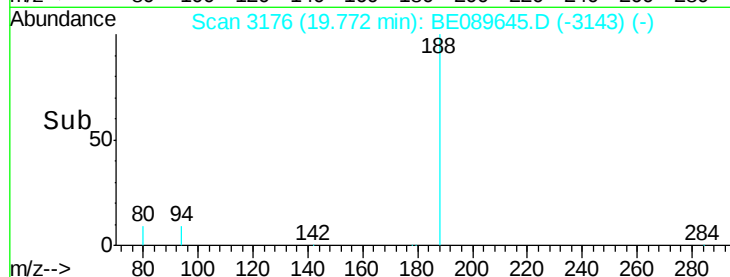
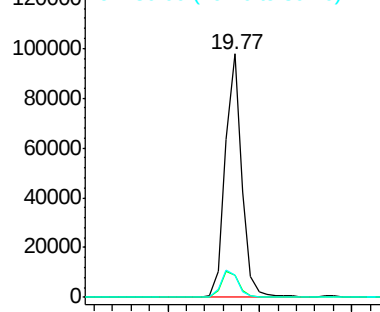
80 8.9 8.1 12.1



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: 0.16 ng

RT: 19.00 min Scan# 3090

Delta R.T. -0.00 min

Lab File: BE089645.D

Acq: 20 Feb 2015 3:05

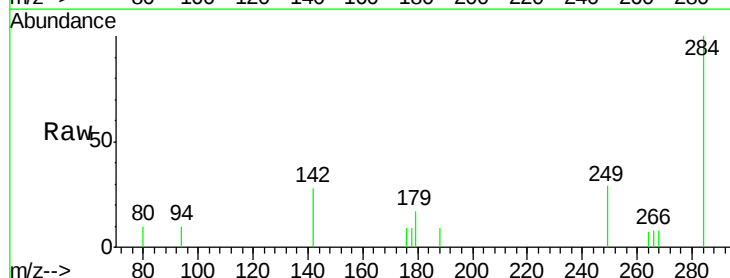
Tgt Ion:284 Resp: 872

Ion Ratio Lower Upper

284 100

142 36.4 32.3 48.5

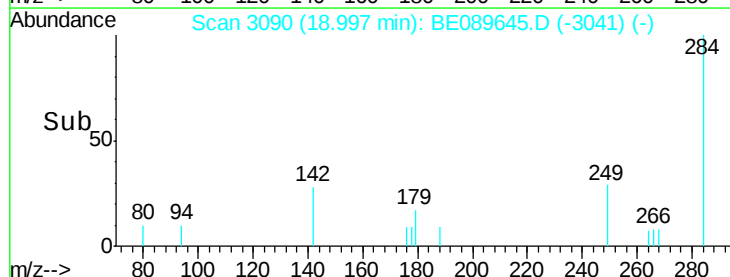
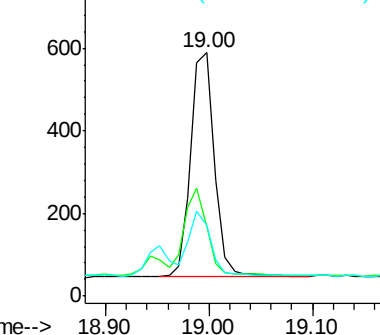
249 26.3 22.3 33.5



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

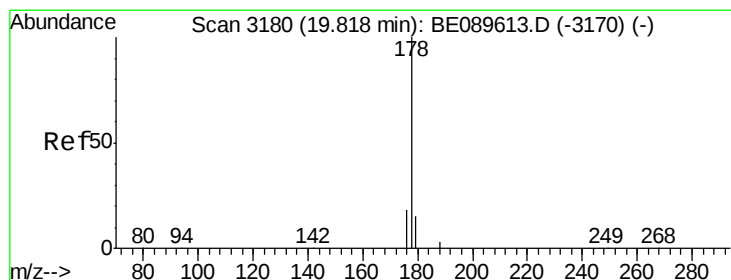
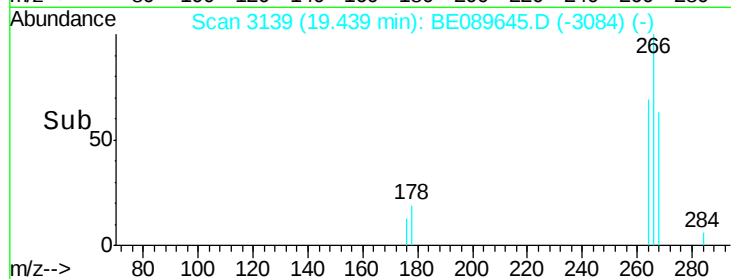
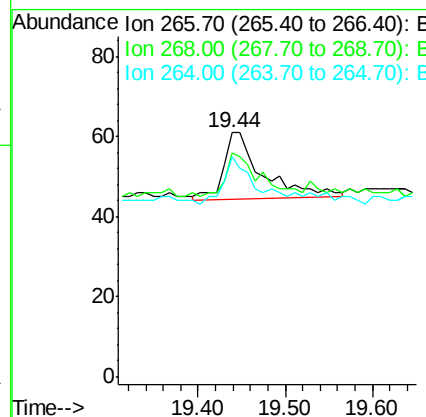
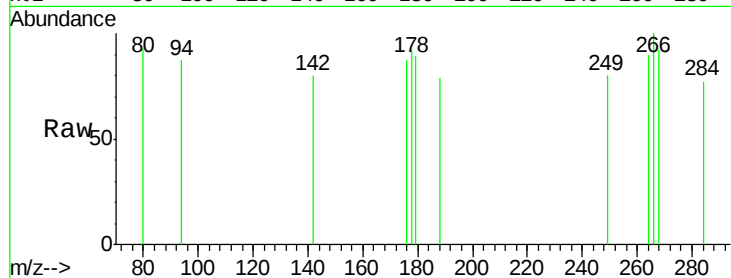




#15
 Pentachlorophenol
 Concen: 0.04 ng
 RT: 19.44 min Scan# 3139
 Delta R.T. -0.00 min
 Lab File: BE089645.D
 Acq: 20 Feb 2015 3:05

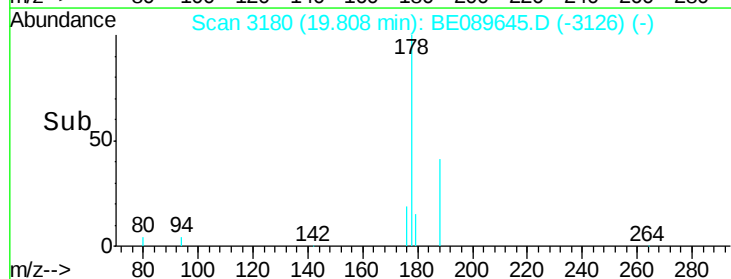
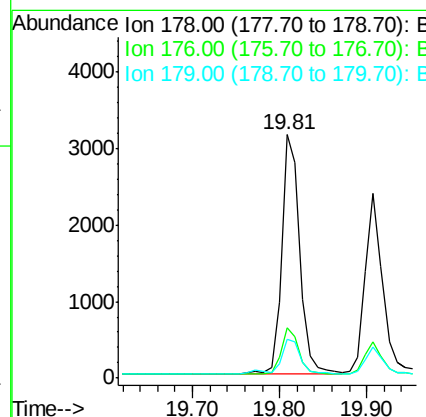
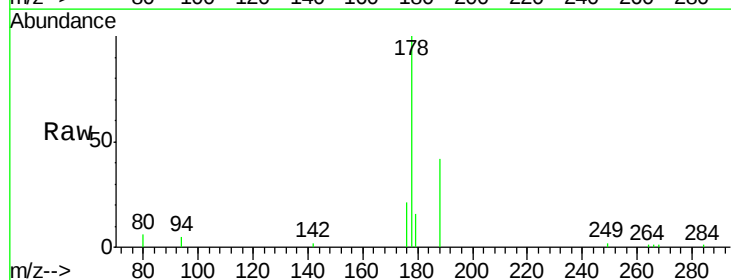
Instrument :
 BNA_E
 ClientSampleId :
 MDL-08-W

Tgt Ion: 266 Resp: 53
 Ion Ratio Lower Upper
 266 100
 268 91.8 52.6 79.0#
 264 90.2 51.8 77.8#



#16
 Phenanthrene
 Concen: 0.15 ng
 RT: 19.81 min Scan# 3180
 Delta R.T. -0.01 min
 Lab File: BE089645.D
 Acq: 20 Feb 2015 3:05

Tgt Ion: 178 Resp: 4584
 Ion Ratio Lower Upper
 178 100
 176 18.8 15.1 22.7
 179 16.6 12.3 18.5

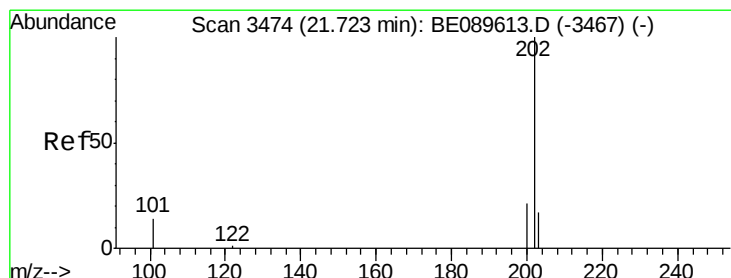
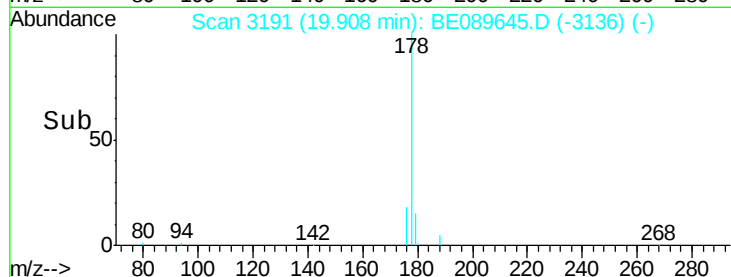
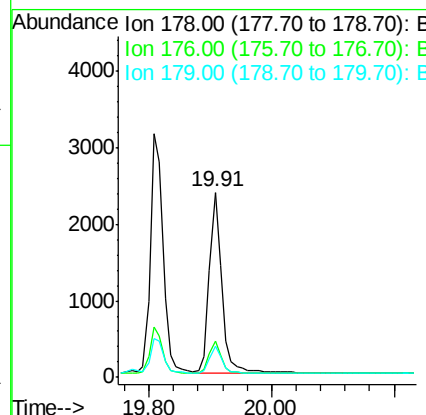
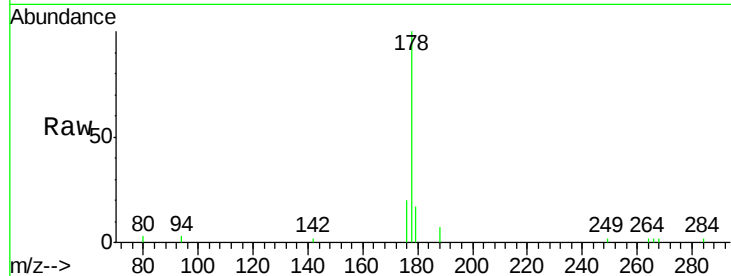




#17
 Anthracene
 Concen: 0.13 ng
 RT: 19.91 min Scan# 3191
 Delta R.T. -0.00 min
 Lab File: BE089645.D
 Acq: 20 Feb 2015 3:05

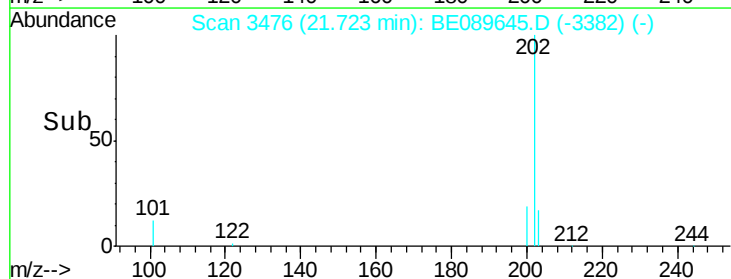
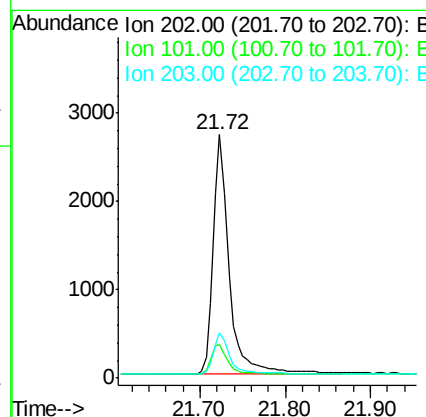
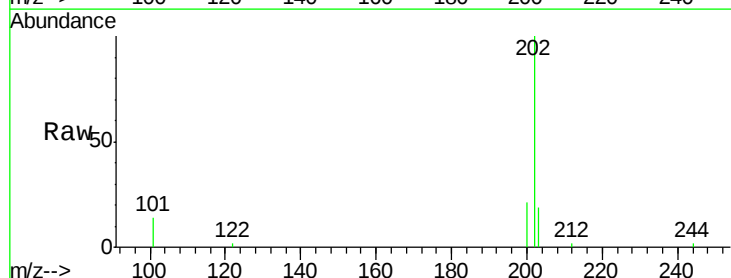
Instrument :
 BNA_E
 ClientSampleId :
 MDL-08-W

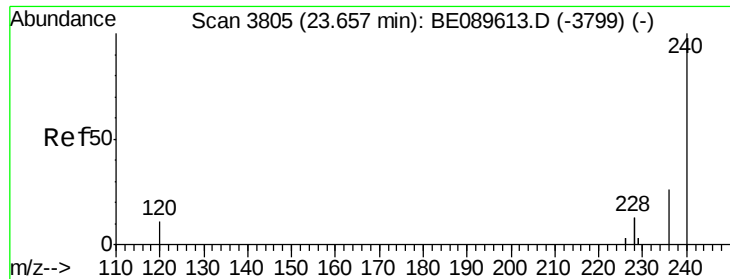
Tgt Ion:178 Resp: 3435
 Ion Ratio Lower Upper
 178 100
 176 17.4 14.6 22.0
 179 13.9 12.3 18.5



#18
 Fluoranthene
 Concen: 0.12 ng
 RT: 21.72 min Scan# 3476
 Delta R.T. 0.00 min
 Lab File: BE089645.D
 Acq: 20 Feb 2015 3:05

Tgt Ion:202 Resp: 3492
 Ion Ratio Lower Upper
 202 100
 101 13.1 10.4 15.6
 203 16.8 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: BE089645.D

Acq: 20 Feb 2015 3:05

Instrument :

BNA_E

ClientSampleId :

MDL-08-W

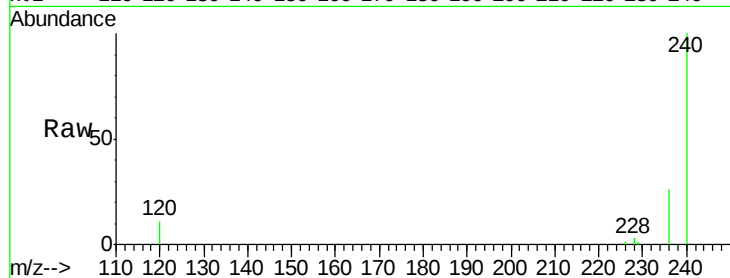
Tgt Ion:240 Resp: 113467

Ion Ratio Lower Upper

240 100

120 11.2 9.0 13.4

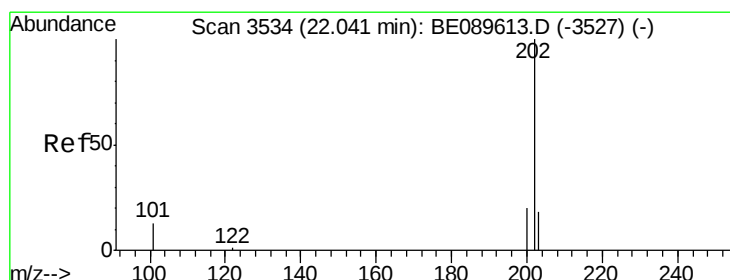
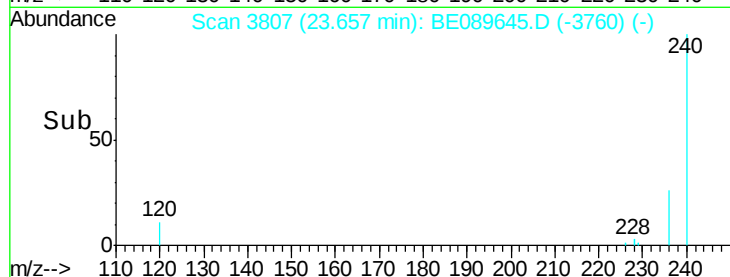
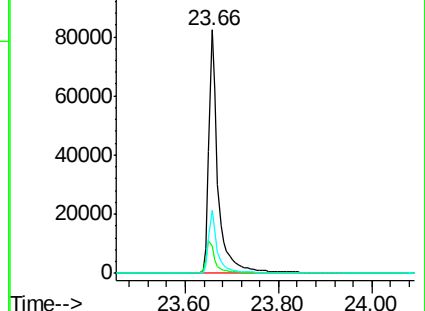
236 25.7 21.0 31.6



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: 0.14 ng

RT: 22.04 min Scan# 3535

Delta R.T. -0.00 min

Lab File: BE089645.D

Acq: 20 Feb 2015 3:05

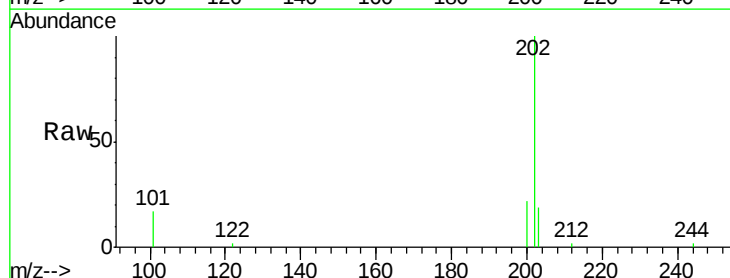
Tgt Ion:202 Resp: 3806

Ion Ratio Lower Upper

202 100

200 19.9 16.3 24.5

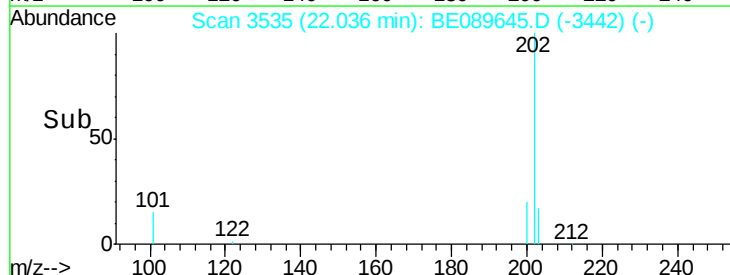
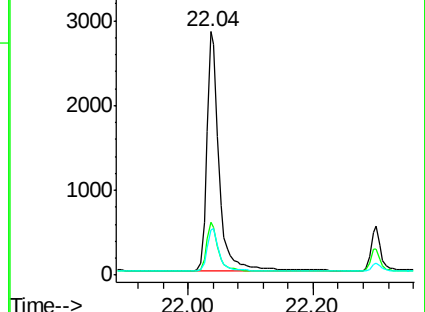
203 17.9 13.8 20.8



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: 12.10 ng

RT: 22.30 min Scan# 3585

Delta R.T. 0.00 min

Lab File: BE089645.D

Acq: 20 Feb 2015 3:05

Instrument :

BNA_E

ClientSampleId :

MDL-08-W

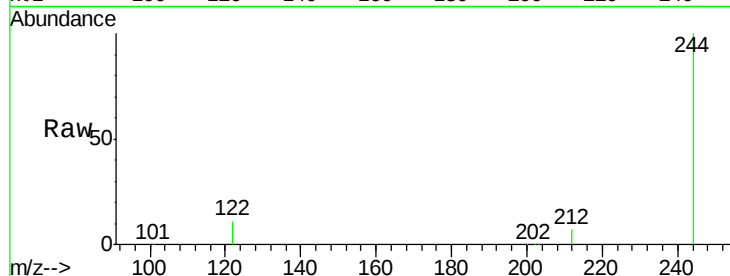
Tgt Ion:244 Resp: 197387

Ion Ratio Lower Upper

244 100

212 6.5 5.8 8.8

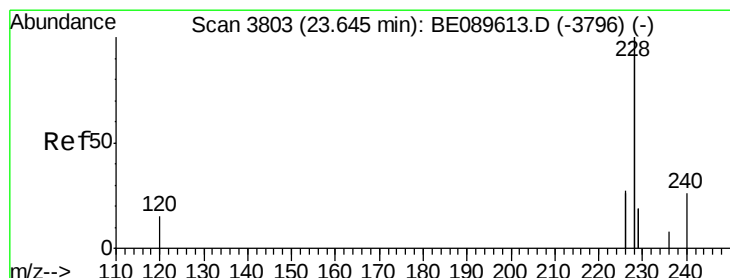
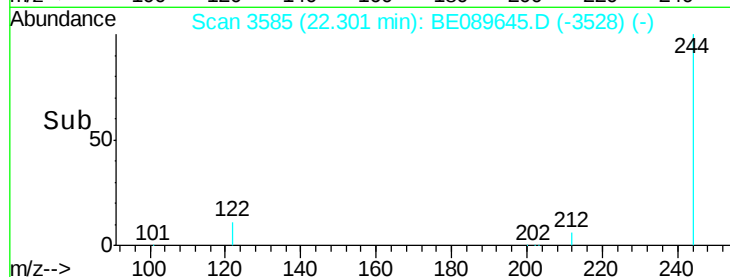
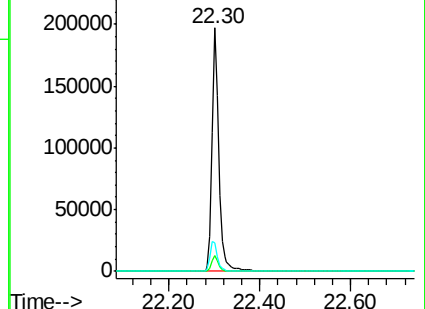
122 11.5 11.8 17.8#



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: 0.11 ng

RT: 23.65 min Scan# 3806

Delta R.T. 0.01 min

Lab File: BE089645.D

Acq: 20 Feb 2015 3:05

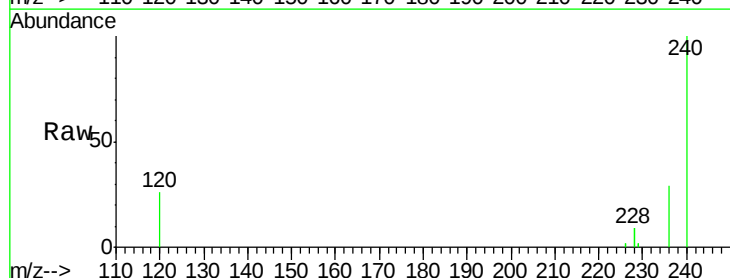
Tgt Ion:228 Resp: 10878

Ion Ratio Lower Upper

228 100

226 26.0 21.2 31.8

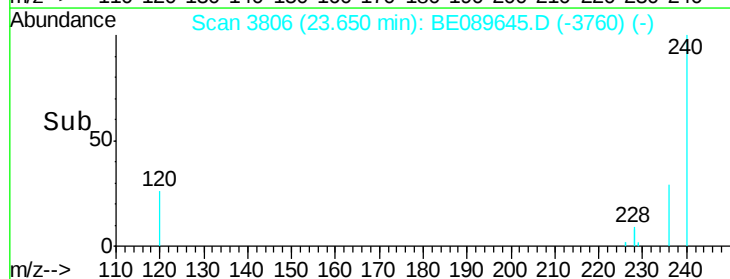
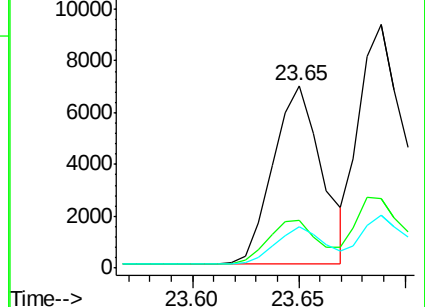
229 22.5 15.2 22.8



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: 0.18 ng

RT: 23.69 min Scan# 3812

Delta R.T. -0.00 min

Lab File: BE089645.D

Acq: 20 Feb 2015 3:05

Instrument :

BNA_E

ClientSampleId :

MDL-08-W

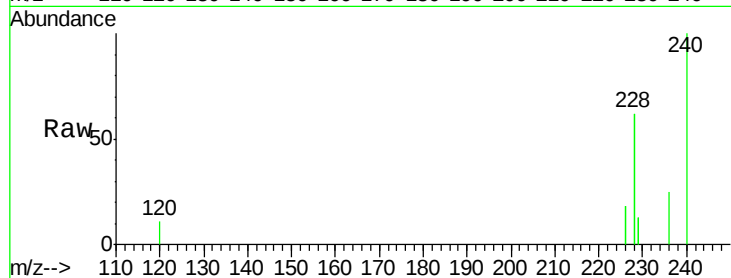
Tgt Ion:228 Resp: 19747

Ion Ratio Lower Upper

228 100

226 28.6 22.2 33.4

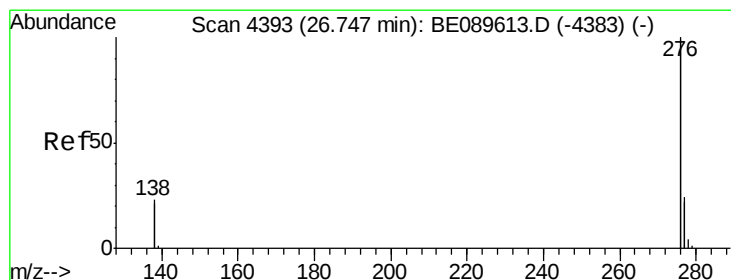
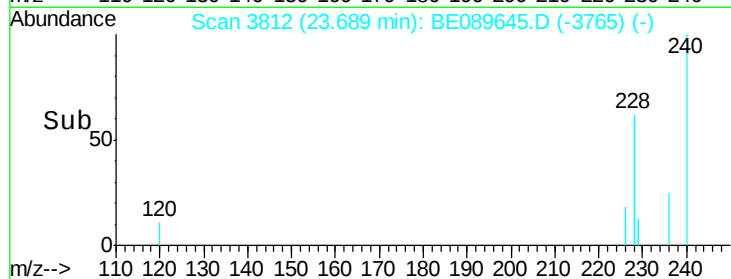
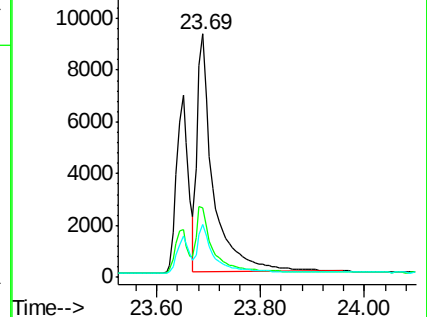
229 21.5 16.0 24.0



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#24

Indeno(1,2,3-cd)pyrene

Concen: 0.20 ng

RT: 26.74 min Scan# 4394

Delta R.T. -0.01 min

Lab File: BE089645.D

Acq: 20 Feb 2015 3:05

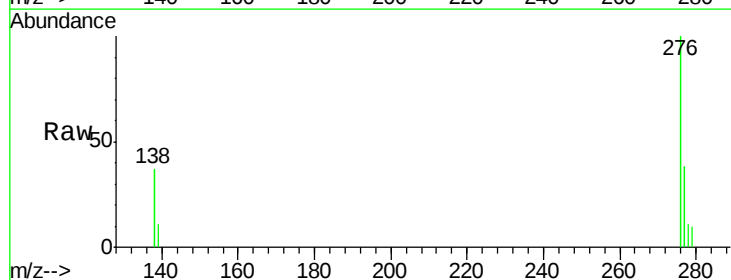
Tgt Ion:276 Resp: 3095

Ion Ratio Lower Upper

276 100

138 25.3 21.4 32.2

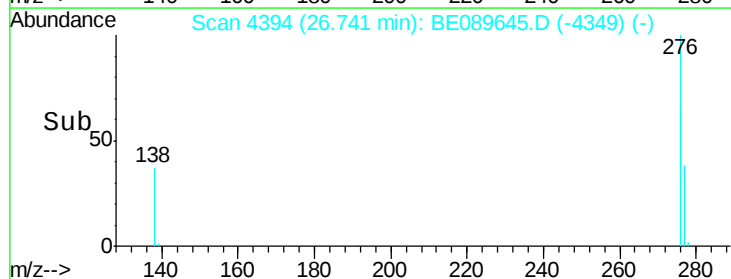
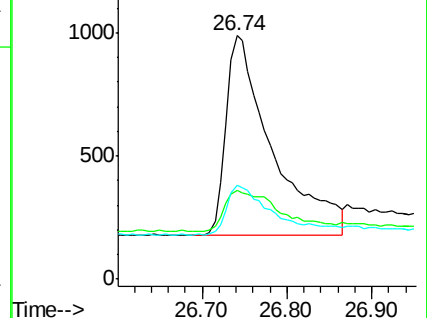
277 25.3 19.9 29.9

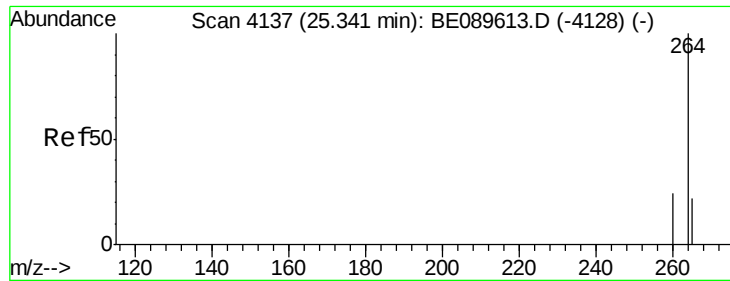


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

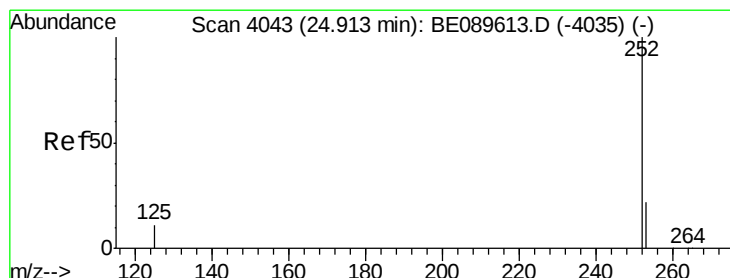
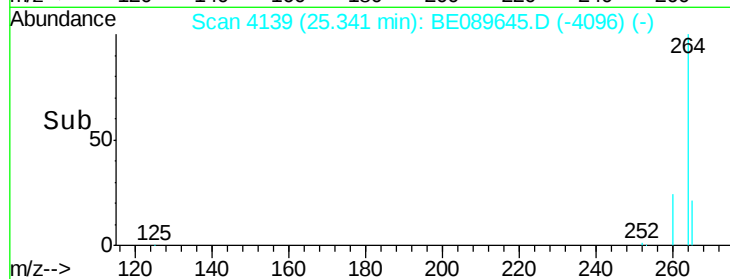
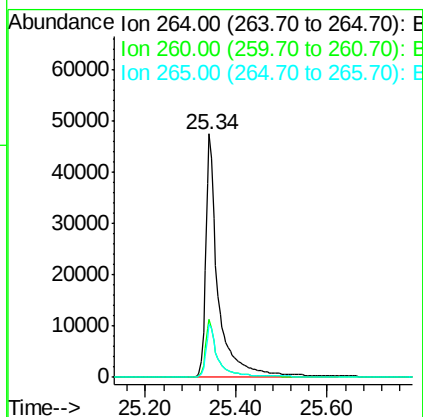
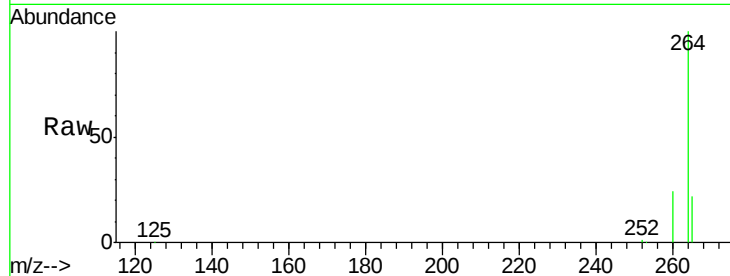




#25
 Perylene-d12
 Concen: 5.00 ng
 RT: 25.34 min Scan# 4139
 Delta R.T. -0.00 min
 Lab File: BE089645.D
 Acq: 20 Feb 2015 3:05

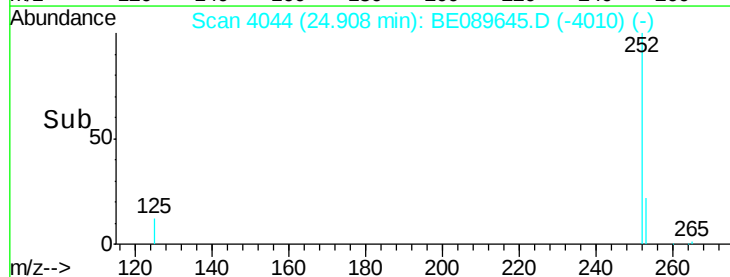
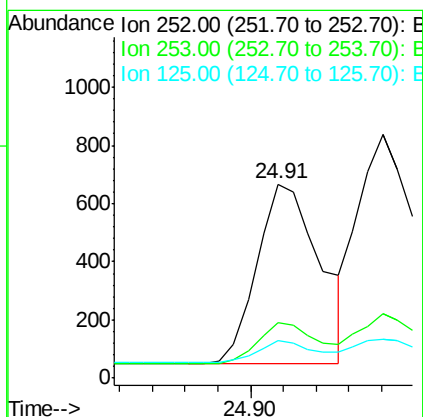
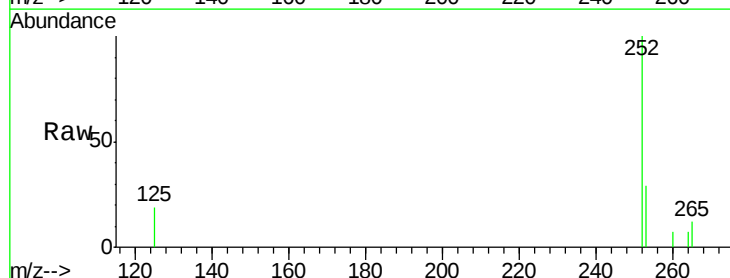
Instrument :
 BNA_E
 ClientSampleId :
 MDL-08-W

Tgt Ion: 264 Resp: 90359
 Ion Ratio Lower Upper
 264 100
 260 23.7 19.0 28.6
 265 21.5 17.4 26.0



#26
 Benzo(b)fluoranthene
 Concen: 0.31 ng
 RT: 24.91 min Scan# 4044
 Delta R.T. -0.00 min
 Lab File: BE089645.D
 Acq: 20 Feb 2015 3:05

Tgt Ion: 252 Resp: 828
 Ion Ratio Lower Upper
 252 100
 253 28.6 17.6 26.4#
 125 19.3 8.8 13.2#





#27

Benzo(k)fluoranthene

Concen: 0.06 ng

RT: 24.94 min Scan# 4051

Delta R.T. -0.00 min

Lab File: BE089645.D

Acq: 20 Feb 2015 3:05

Instrument :

BNA_E

ClientSampled :

MDL-08-W

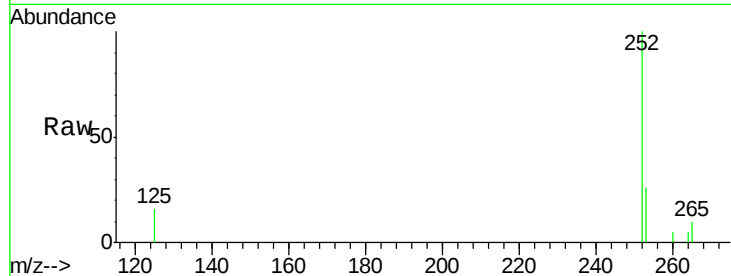
Tgt Ion:252 Resp: 1631

Ion Ratio Lower Upper

252 100

253 26.4 17.7 26.5

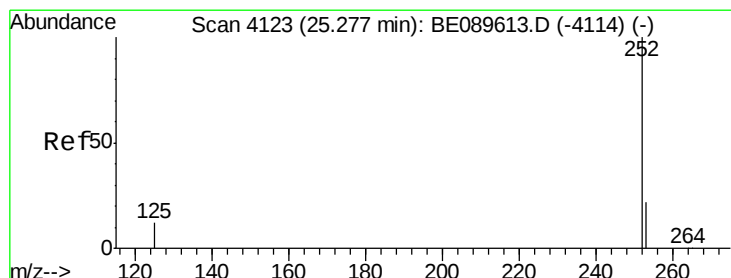
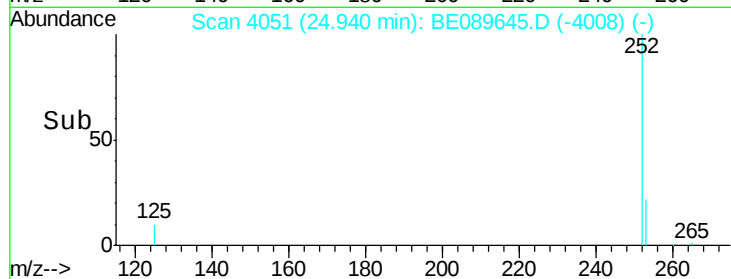
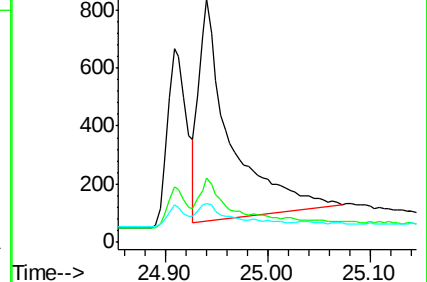
125 15.8 8.8 13.2#



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: 0.28 ng

RT: 25.27 min Scan# 4124

Delta R.T. -0.00 min

Lab File: BE089645.D

Acq: 20 Feb 2015 3:05

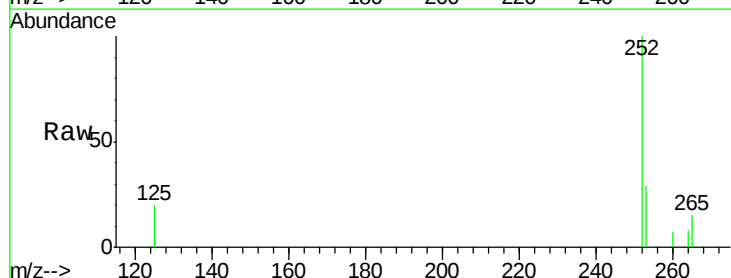
Tgt Ion:252 Resp: 857

Ion Ratio Lower Upper

252 100

253 29.2 18.1 27.1#

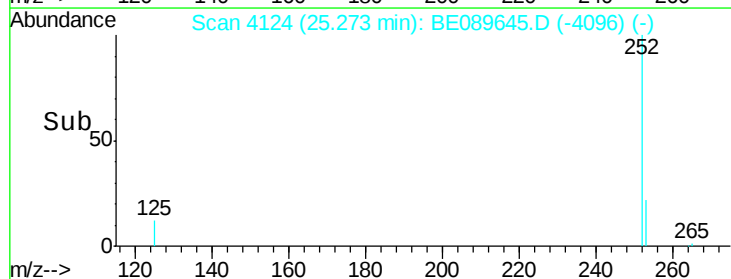
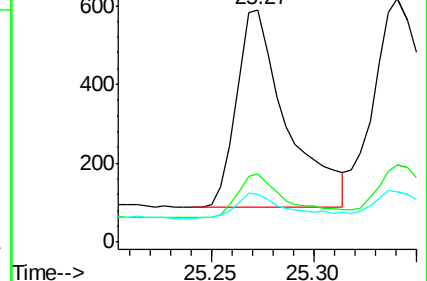
125 20.3 9.6 14.4#

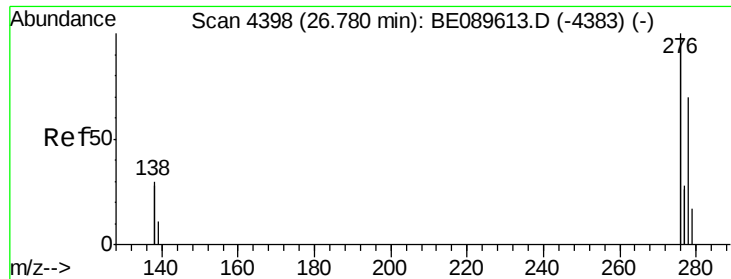


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#29

Dibenzo(a,h)anthracene

Concen: 0.26 ng

RT: 26.77 min Scan# 4399

Delta R.T. -0.01 min

Lab File: BE089645.D

Acq: 20 Feb 2015 3:05

Instrument :

BNA_E

ClientSampleId :

MDL-08-W

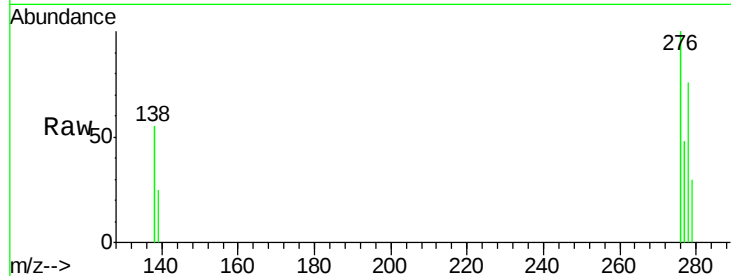
Tgt Ion:278 Resp: 559

Ion Ratio Lower Upper

278 100

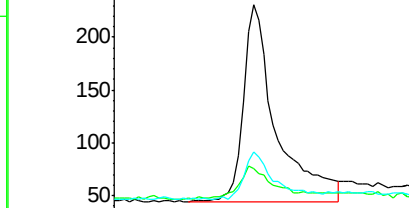
139 32.9 13.7 20.5#

279 39.4 19.7 29.5#

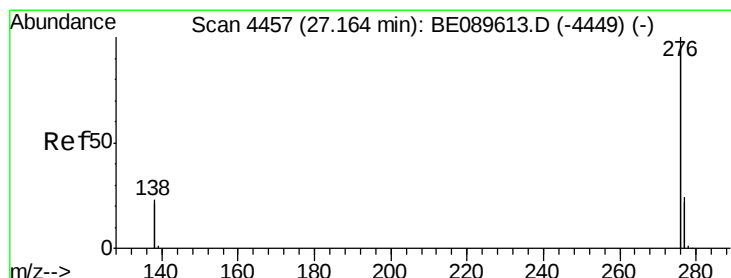
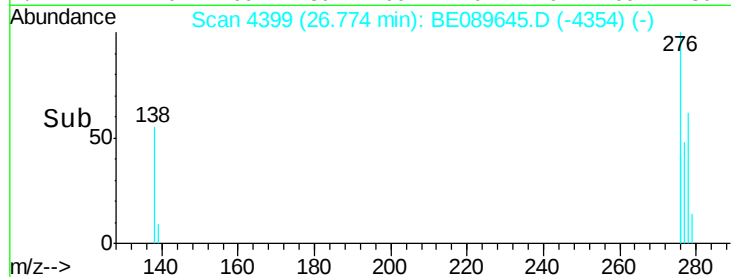


Abundance Ion 278.00 (277.70 to 278.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 279.00 (278.70 to 279.70): E

26.77



Time--> 26.60 26.70 26.80 26.90



#30

Benzo(g,h,i)perylene

Concen: 0.19 ng

RT: 27.16 min Scan# 4458

Delta R.T. -0.01 min

Lab File: BE089645.D

Acq: 20 Feb 2015 3:05

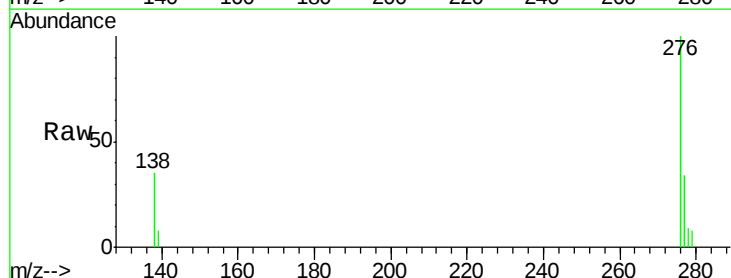
Tgt Ion:276 Resp: 5052

Ion Ratio Lower Upper

276 100

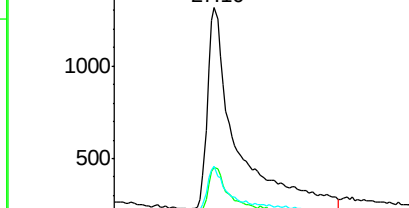
277 34.2 19.1 28.7#

138 35.2 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



Time--> 27.00 27.20 27.40

