

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM033115\
 Data File : BM000779.D
 Acq On : 01 Apr 2015 08:31
 Operator : TP/IZ
 Sample : MDL-07-S
 Misc : MDL-SOIL-0.1/0.2PPM
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 MDL-07-S

Quant Time: Apr 01 15:10:23 2015
 Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SIMPAH-BM033115.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Apr 01 04:17:30 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.61	152	39215	5.00	ng	0.00
4) Naphthalene-d8	10.40	136	132987	5.00	ng	0.00
8) Acenaphthene-d10	14.28	164	64354	5.00	ng	0.00
13) Phenanthrene-d10	17.01	188	139408	5.00	ng	0.00
19) Chrysene-d12	21.21	240	113821	5.00	ng	0.00
25) Perylene-d12	23.40	264	106257	5.00	ng	0.00

System Monitoring Compounds						
5) Nitrobenzene-d5	8.77	82	57637	7.08	ng	0.00
9) 2-Fluorobiphenyl	12.89	172	173326	8.68	ng	0.00
21) Terphenyl-d14	19.66	244	131451	9.60	ng	0.00

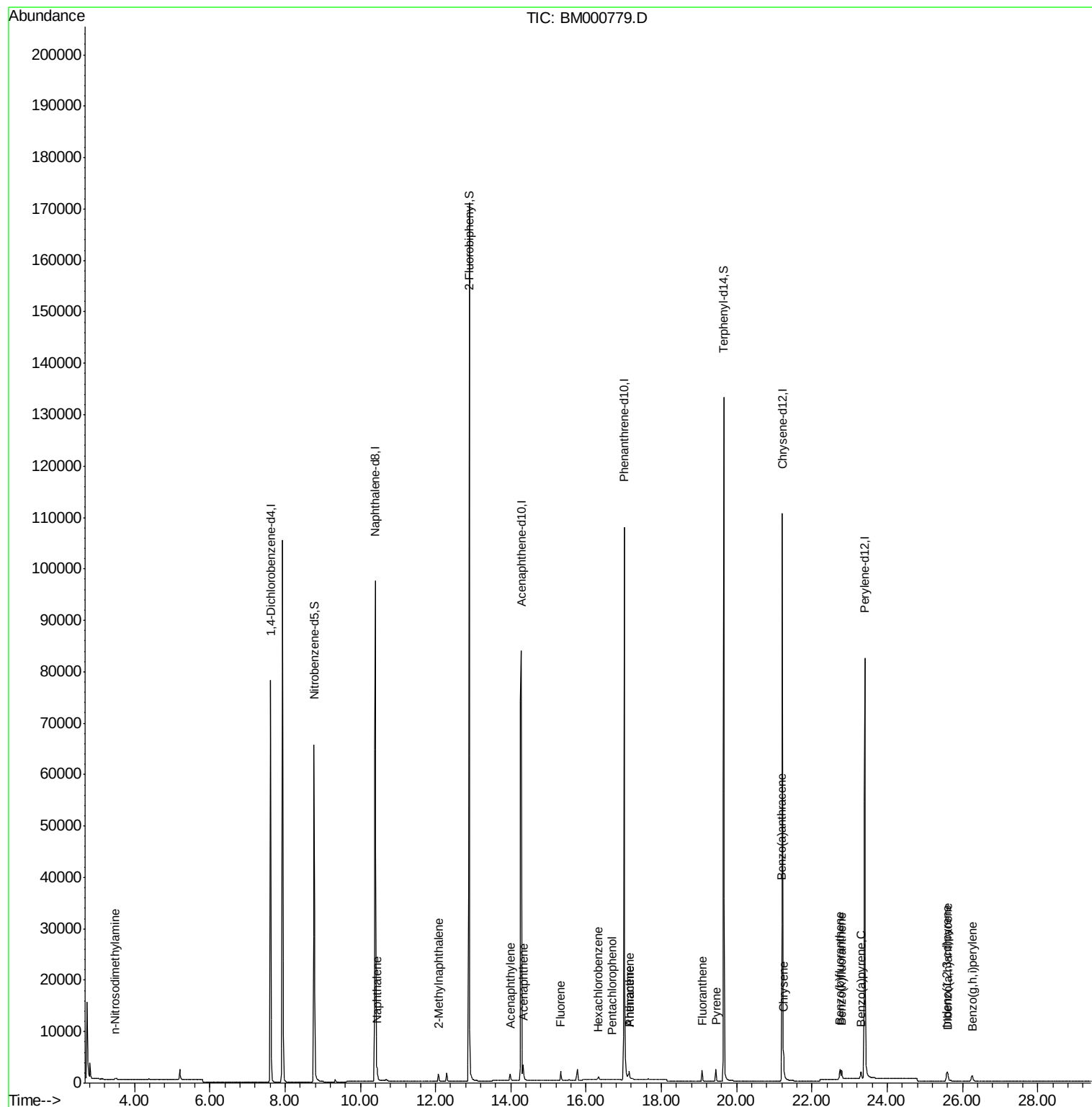
Target Compounds						Qvalue
3) n-Nitrosodimethylamine	3.50	42	104	0.18	ng	# 42
6) Naphthalene	10.45	128	2331	0.08	ng	# 93
7) 2-Methylnaphthalene	12.08	142	1374	0.07	ng	97
10) Acenaphthylene	13.98	152	1757	0.06	ng	99
11) Acenaphthene	14.33	154	1368	0.07	ng	97
12) Fluorene	15.32	166	1625	0.07	ng	98
14) Hexachlorobenzene	16.33	284	596	0.07	ng	# 99
15) Pentachlorophenol	16.70	266	27	0.37	ng	# 60
16) Phenanthrene	17.15	178	2250	0.06	ng	98
17) Anthracene	17.15	178	2287	0.07	ng	98
18) Fluoranthene	19.09	202	2683	0.07	ng	99
20) Pyrene	19.45	202	2746	0.07	ng	98
22) Benzo(a)anthracene	21.20	228	2618	0.08	ng	97
23) Chrysene	21.25	228	2912	0.09	ng	# 90
24) Indeno(1,2,3-cd)pyrene	25.59	276	2623	0.07	ng	100
26) Benzo(b)fluoranthene	22.74	252	2372	0.07	ng	# 79
27) Benzo(k)fluoranthene	22.79	252	2606	0.08	ng	# 78
28) Benzo(a)pyrene	23.31	252	2135	0.07	ng	# 71
29) Dibenzo(a,h)anthracene	25.61	278	2095	0.07	ng	# 82
30) Benzo(g,h,i)perylene	26.26	276	2434	0.08	ng	91

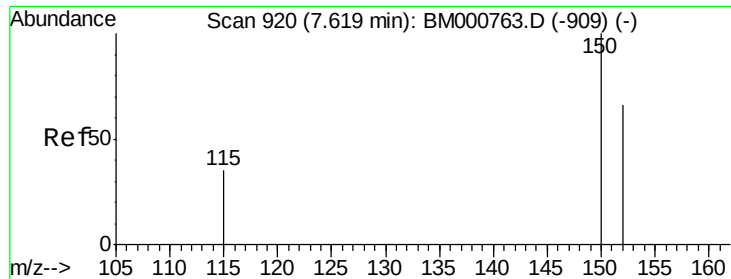
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.61 min Scan# 919

Delta R.T. -0.01 min

Lab File: BM000779.D

Acq: 01 Apr 2015 08:31

Instrument :

BNA_M

ClientSampleId :

MDL-07-S

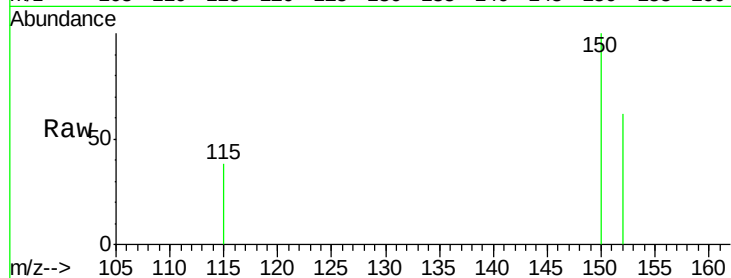
Tgt Ion:152 Resp: 39215

Ion Ratio Lower Upper

152 100

150 160.7 120.8 181.2

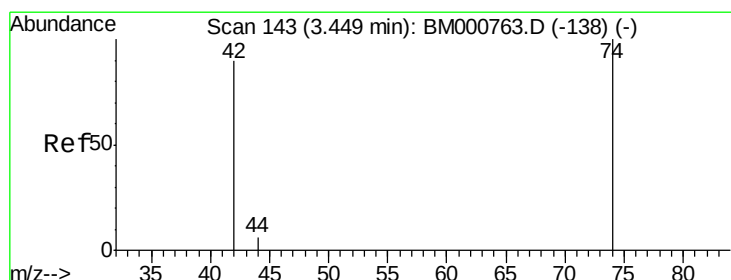
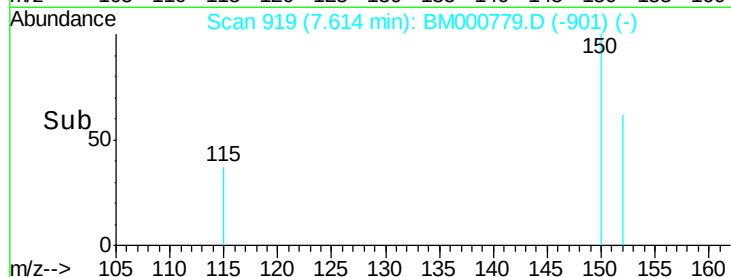
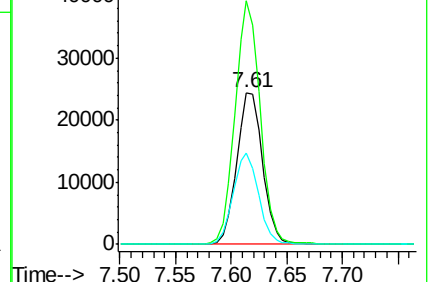
115 60.3 42.7 64.1



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



#3

n-Nitrosodimethylamine

Concen: 0.18 ng

RT: 3.50 min Scan# 152

Delta R.T. 0.05 min

Lab File: BM000779.D

Acq: 01 Apr 2015 08:31

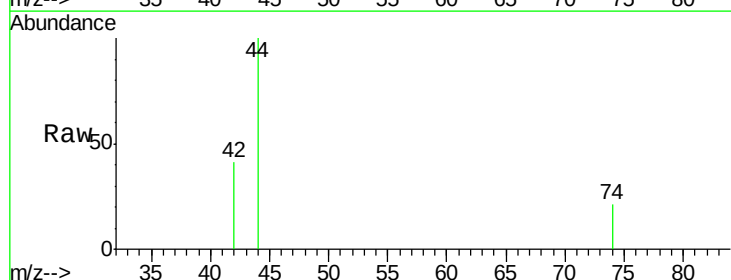
Tgt Ion: 42 Resp: 104

Ion Ratio Lower Upper

42 100

74 184.6 93.6 140.4#

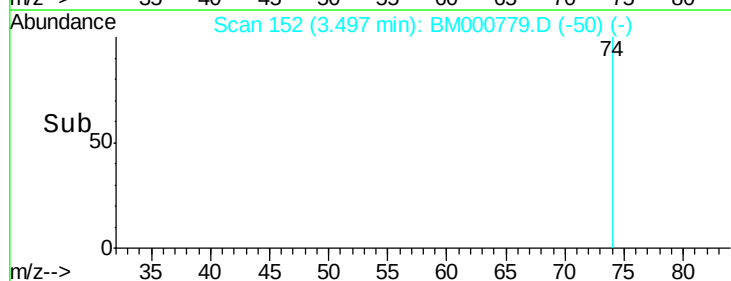
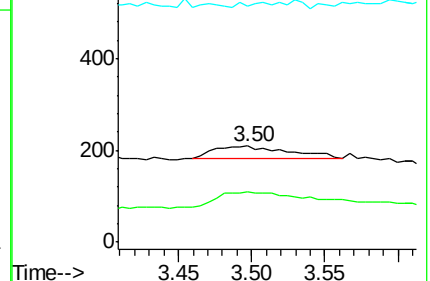
44 11.5 6.3 9.5#

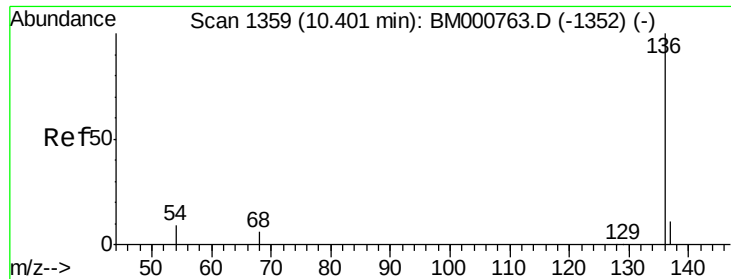


Abundance Ion 42.00 (41.70 to 42.70): BM0

Ion 74.00 (73.70 to 74.70): BM0

Ion 44.00 (43.70 to 44.70): BM0





#4

Naphthalene-d8

Concen: 5.00 ng

RT: 10.40 min Scan# 1359

Delta R.T. 0.00 min

Lab File: BM000779.D

Acq: 01 Apr 2015 08:31

Instrument :

BNA_M

ClientSampleId :

MDL-07-S

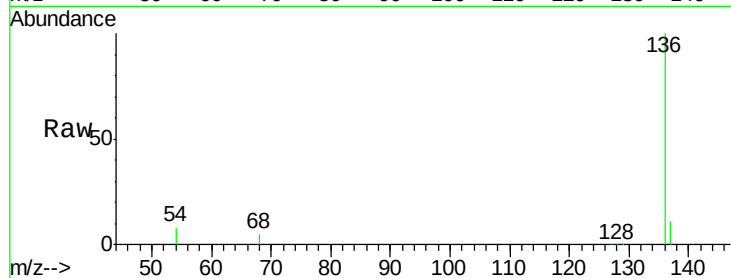
Tgt Ion:136 Resp: 132987

Ion Ratio Lower Upper

136 100

137 10.8 8.6 12.8

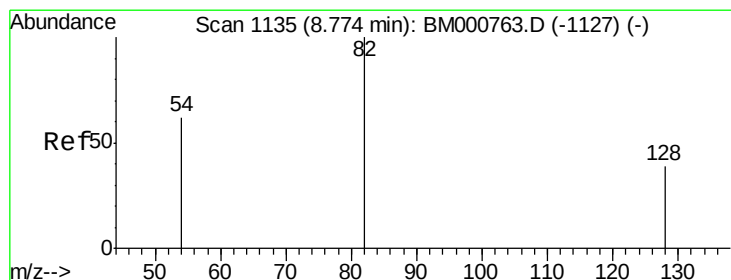
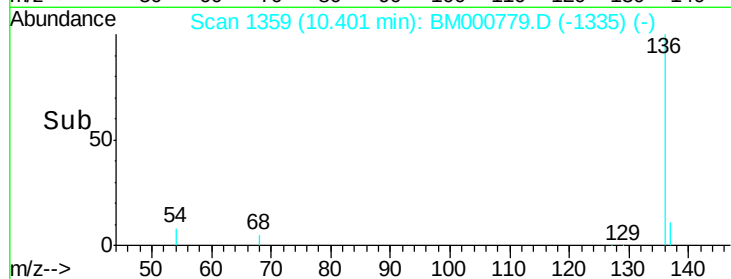
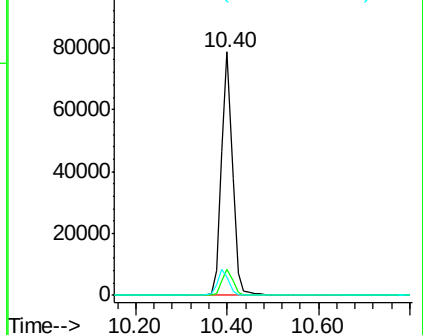
54 7.8 7.0 10.6



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): BM



#5

Nitrobenzene-d5

Concen: 7.08 ng

RT: 8.77 min Scan# 1135

Delta R.T. 0.00 min

Lab File: BM000779.D

Acq: 01 Apr 2015 08:31

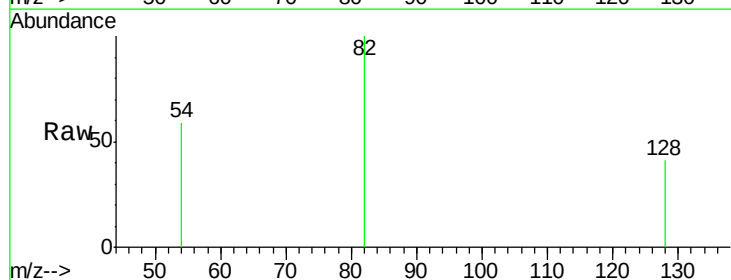
Tgt Ion: 82 Resp: 57637

Ion Ratio Lower Upper

82 100

128 41.5 32.2 48.2

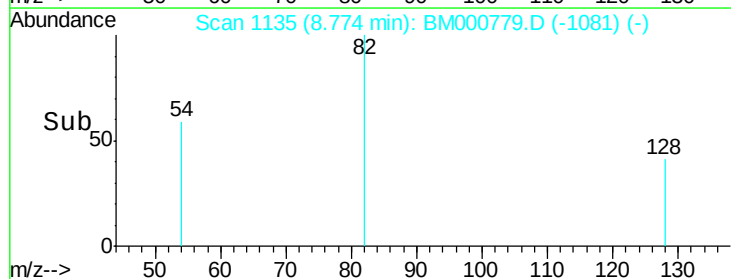
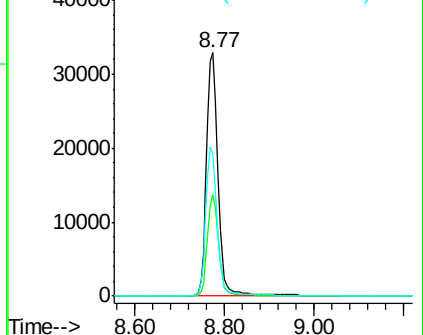
54 58.7 50.2 75.4

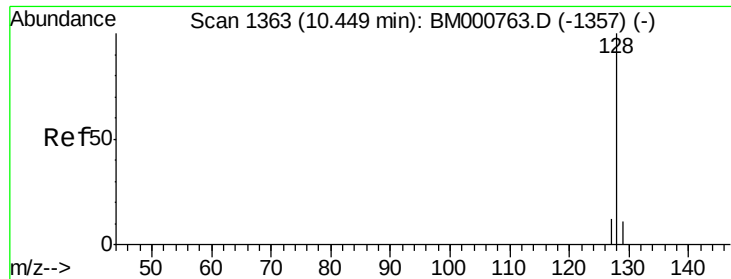


Abundance Ion 82.00 (81.70 to 82.70): BM

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BM





#6

Naphthalene

Concen: 0.08 ng

RT: 10.45 min Scan# 1363

Delta R.T. 0.00 min

Lab File: BM000779.D

Acq: 01 Apr 2015 08:31

Instrument :

BNA_M

ClientSampleId :

MDL-07-S

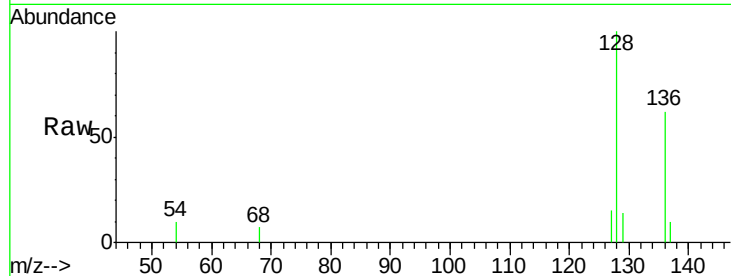
Tgt Ion:128 Resp: 2331

Ion Ratio Lower Upper

128 100

129 14.0 8.9 13.3#

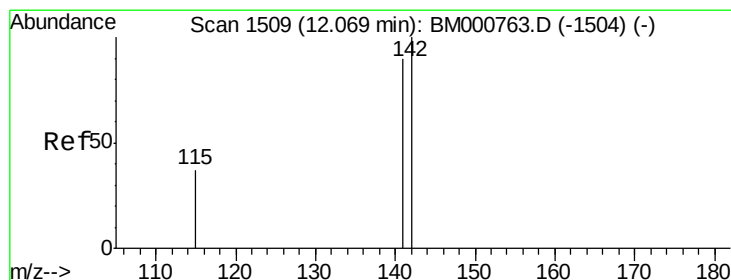
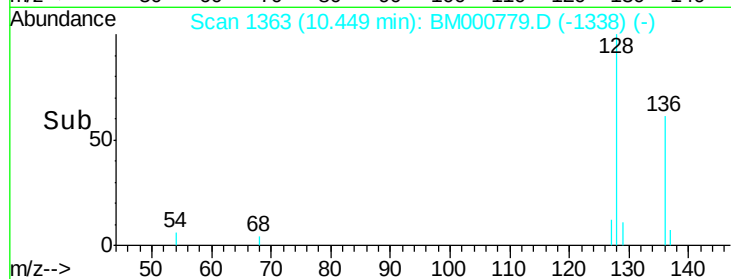
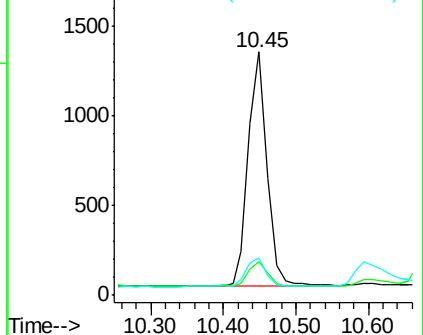
127 15.1 10.0 15.0#



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#7

2-Methylnaphthalene

Concen: 0.07 ng

RT: 12.08 min Scan# 1510

Delta R.T. 0.01 min

Lab File: BM000779.D

Acq: 01 Apr 2015 08:31

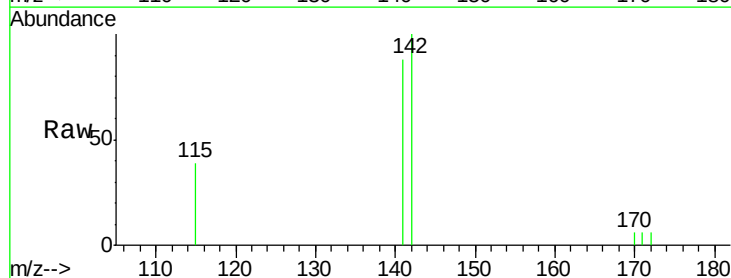
Tgt Ion:142 Resp: 1374

Ion Ratio Lower Upper

142 100

141 87.7 72.3 108.5

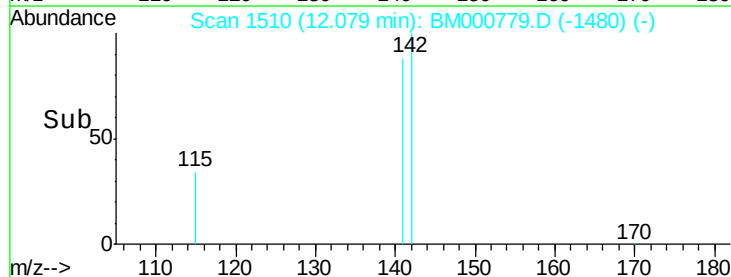
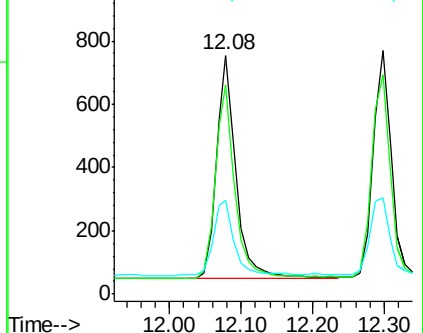
115 39.5 29.5 44.3

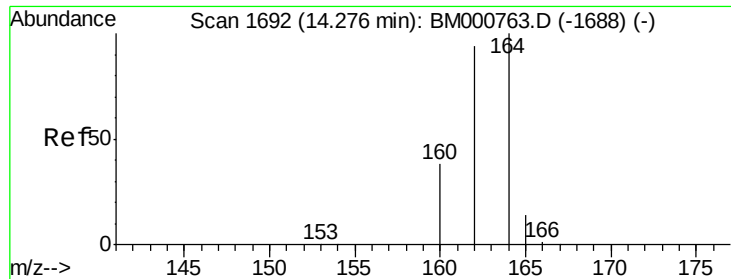


Abundance Ion 142.00 (141.70 to 142.70): E

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: 14.28 min Scan# 1692

Delta R.T. 0.00 min

Lab File: BM000779.D

Acq: 01 Apr 2015 08:31

Instrument :

BNA_M

ClientSampleId :

MDL-07-S

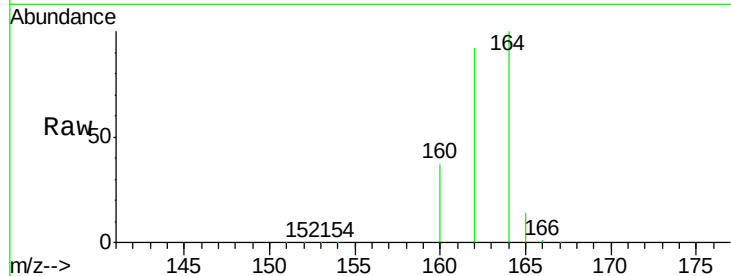
Tgt Ion:164 Resp: 64354

Ion Ratio Lower Upper

164 100

162 91.7 75.4 113.2

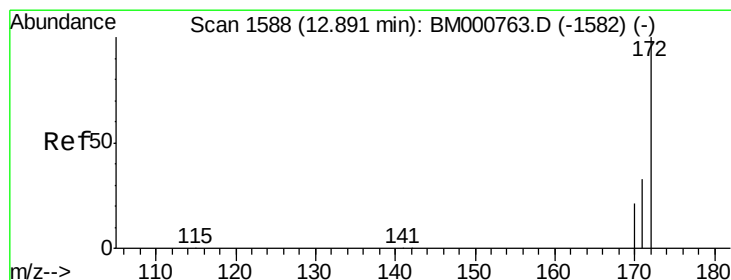
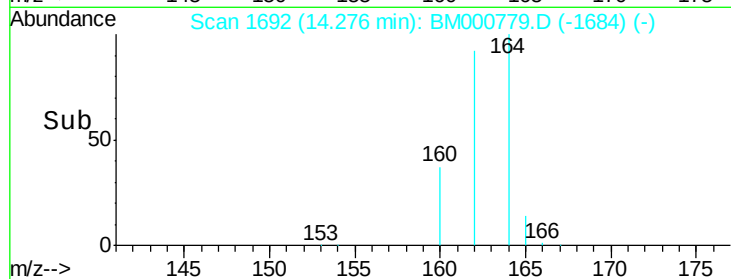
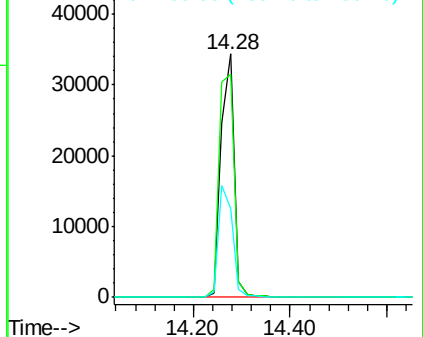
160 36.7 30.8 46.2



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: 8.68 ng

RT: 12.89 min Scan# 1588

Delta R.T. 0.00 min

Lab File: BM000779.D

Acq: 01 Apr 2015 08:31

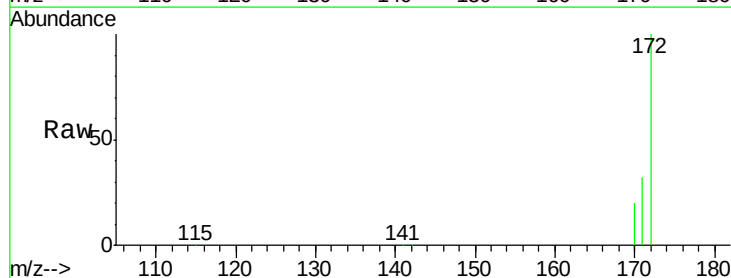
Tgt Ion:172 Resp: 173326

Ion Ratio Lower Upper

172 100

171 31.7 26.6 39.8

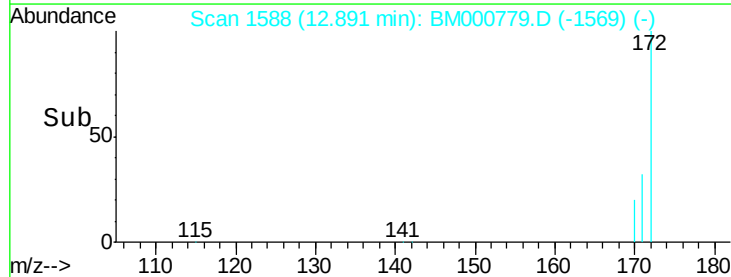
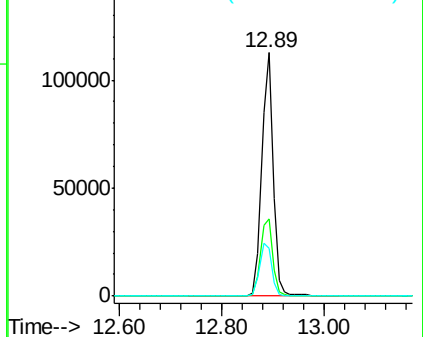
170 19.7 17.1 25.7

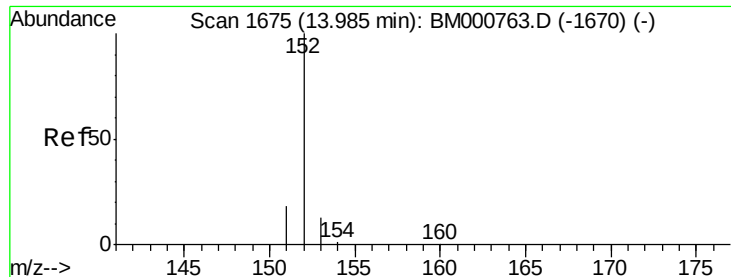


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#10

Acenaphthylene

Concen: 0.06 ng

RT: 13.98 min Scan# 1675

Delta R.T. 0.00 min

Lab File: BM000779.D

Acq: 01 Apr 2015 08:31

Instrument :

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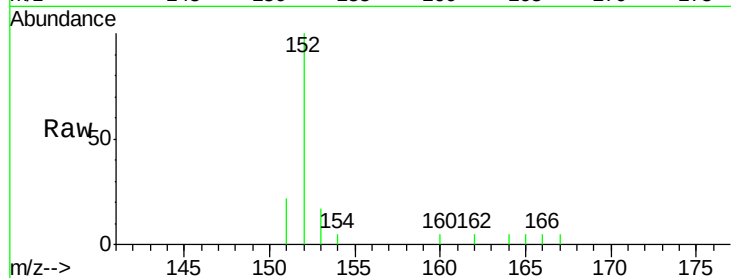
Tgt Ion:152 Resp: 1757

Ion Ratio Lower Upper

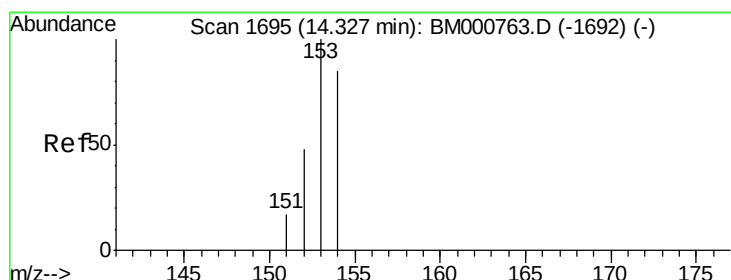
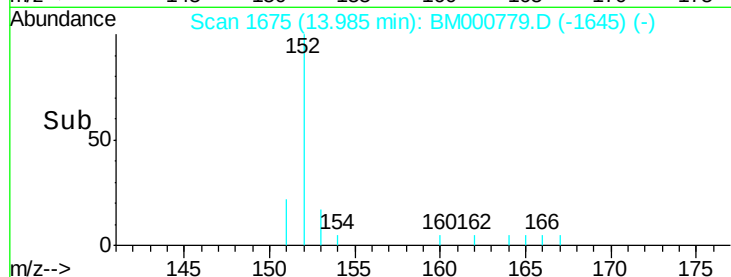
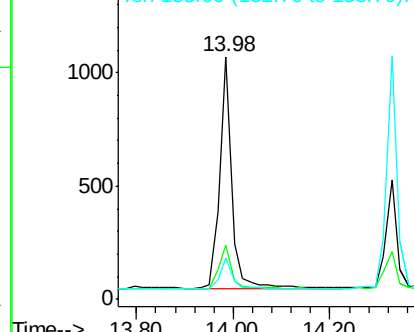
152 100

151 19.2 15.1 22.7

153 13.1 10.2 15.4



Abundance Ion 152.00 (151.70 to 152.70): E
Ion 151.00 (150.70 to 151.70): E
Ion 153.00 (152.70 to 153.70): E



#11

Acenaphthene

Concen: 0.07 ng

RT: 14.33 min Scan# 1695

Delta R.T. 0.00 min

Lab File: BM000779.D

Acq: 01 Apr 2015 08:31

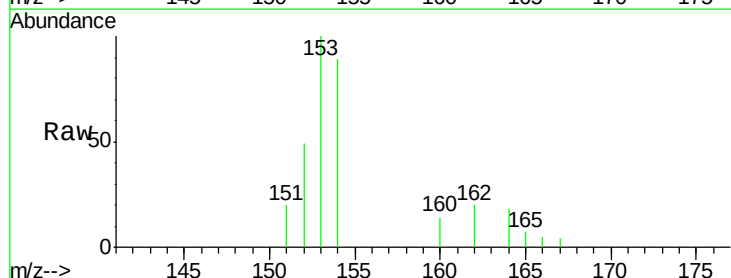
Tgt Ion:154 Resp: 1368

Ion Ratio Lower Upper

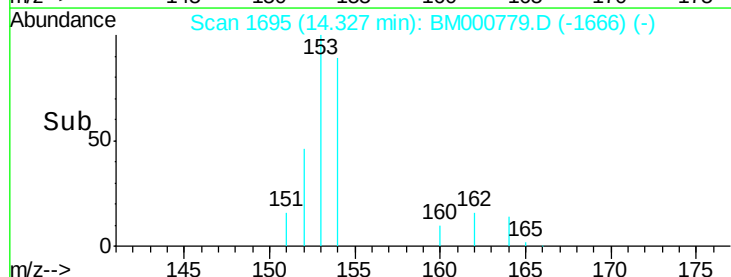
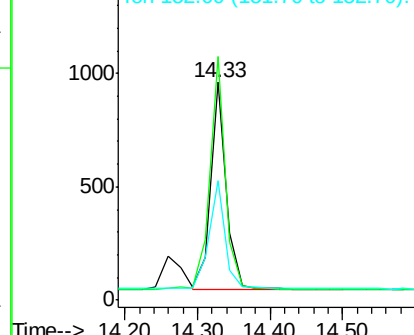
154 100

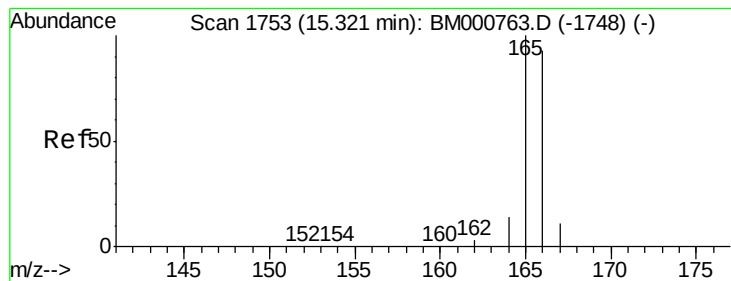
153 114.0 87.3 130.9

152 53.9 43.0 64.6



Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E





#12

Fluorene

Concen: 0.07 ng

RT: 15.32 min Scan# 1753

Delta R.T. 0.00 min

Lab File: BM000779.D

Acq: 01 Apr 2015 08:31

Instrument :

BNA_M

ClientSampleId :

MDL-07-S

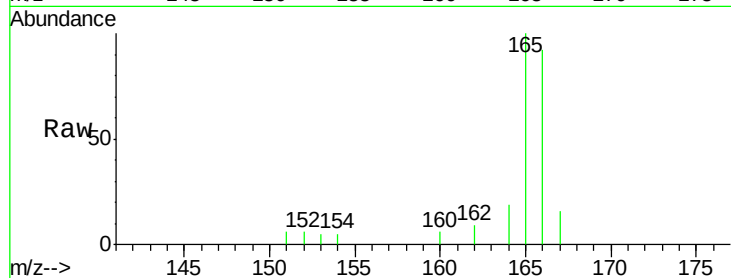
Tgt Ion:166 Resp: 1625

Ion Ratio Lower Upper

166 100

165 95.9 78.2 117.2

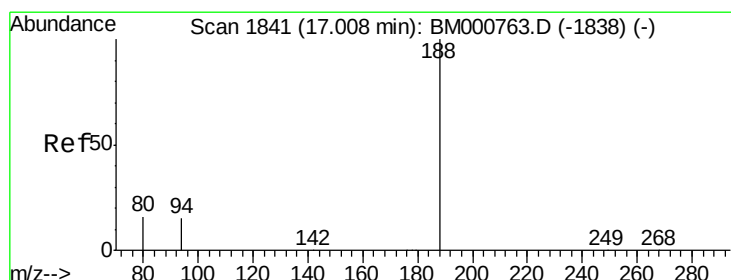
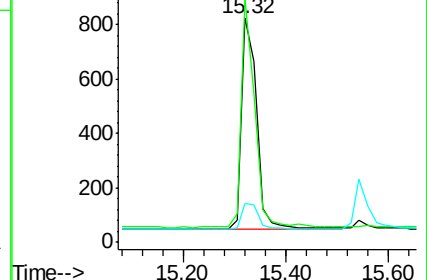
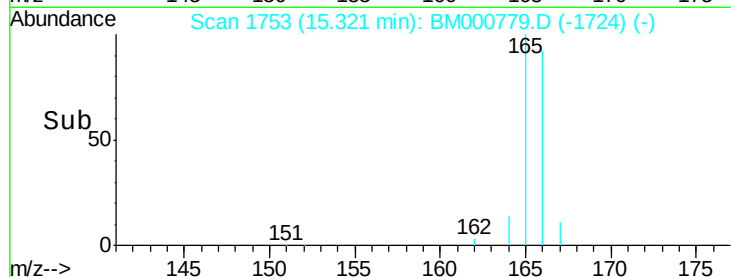
167 13.2 10.7 16.1



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: 17.01 min Scan# 1841

Delta R.T. 0.00 min

Lab File: BM000779.D

Acq: 01 Apr 2015 08:31

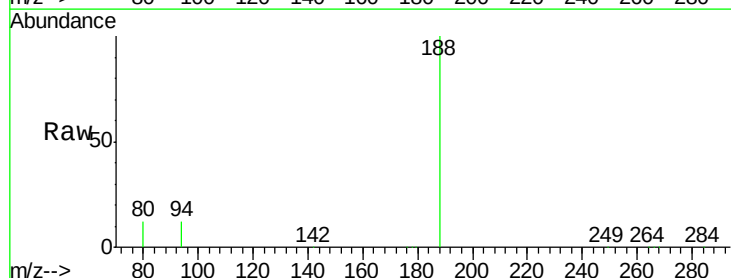
Tgt Ion:188 Resp: 139408

Ion Ratio Lower Upper

188 100

94 11.7 12.0 18.0#

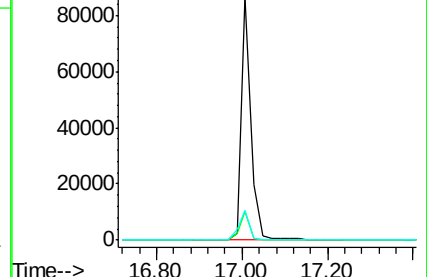
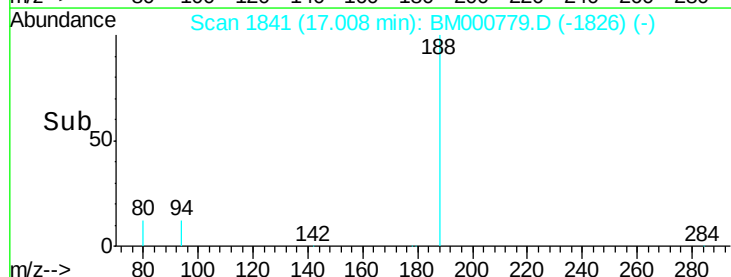
80 12.0 12.8 19.2#

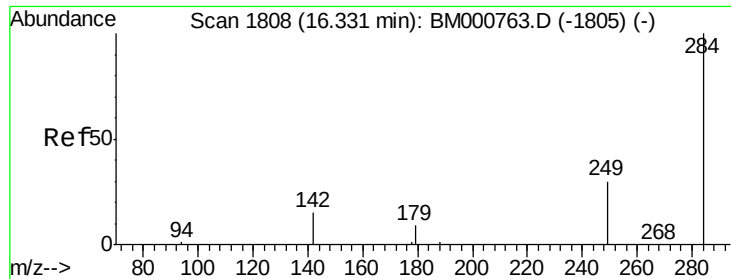


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BM0

Ion 80.00 (79.70 to 80.70): BM0

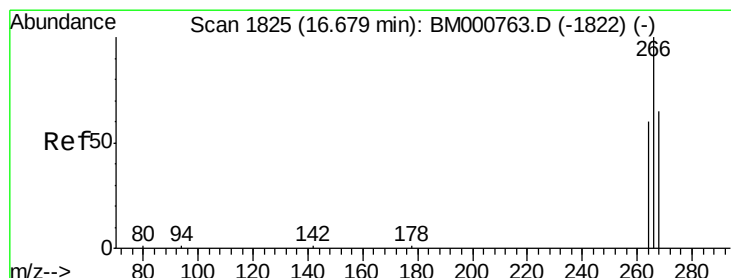
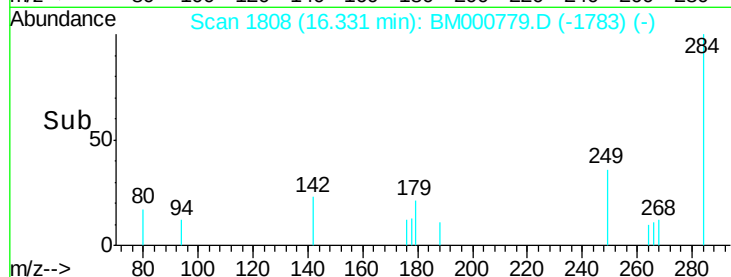
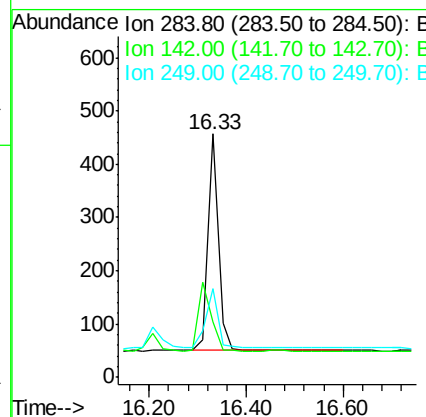
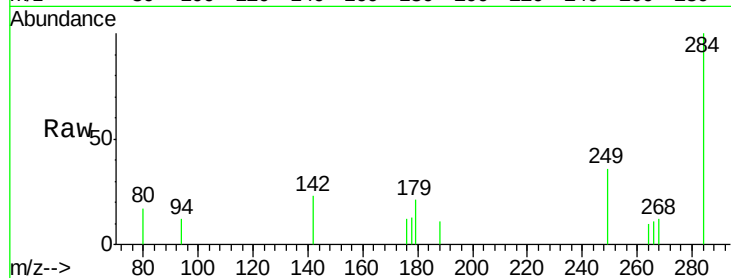




#14
Hexachlorobenzene
Concen: 0.07 ng
RT: 16.33 min Scan# 1808
Delta R.T. 0.00 min
Lab File: BM000779.D
Acq: 01 Apr 2015 08:31

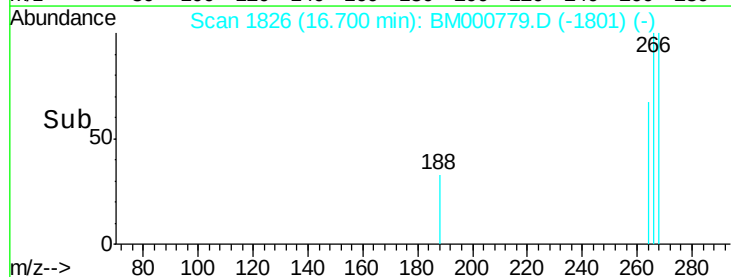
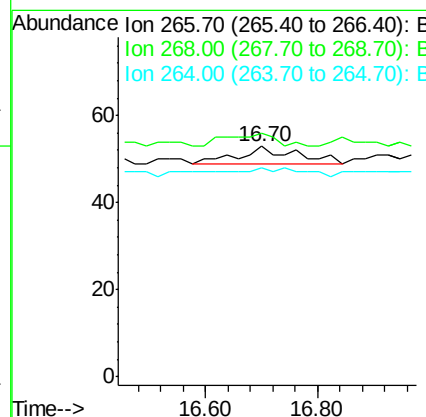
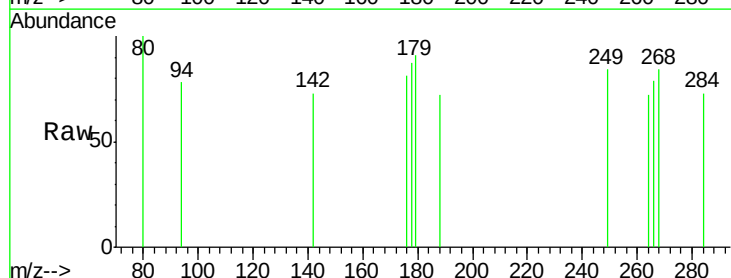
Instrument :
BNA_M
ClientSampleId :
MDL-07-S

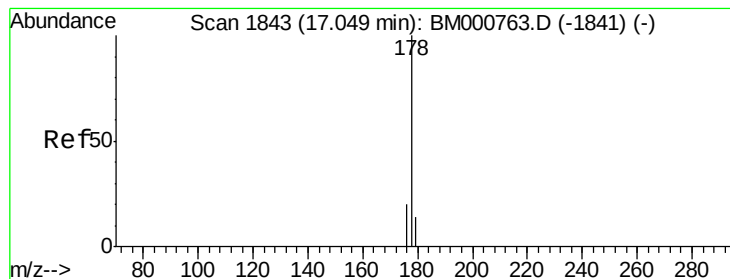
Tgt Ion: 284 Resp: 596
Ion Ratio Lower Upper
284 100
142 0.0 0.0 0.0
249 31.2 25.2 37.8



#15
Pentachlorophenol
Concen: 0.37 ng
RT: 16.70 min Scan# 1826
Delta R.T. 0.02 min
Lab File: BM000779.D
Acq: 01 Apr 2015 08:31

Tgt Ion: 266 Resp: 27
Ion Ratio Lower Upper
266 100
268 105.7 55.0 82.6#
264 90.6 51.0 76.4#





#16

Phenanthrene

Concen: 0.06 ng

RT: 17.15 min Scan# 1848

Delta R.T. 0.10 min

Lab File: BM000779.D

Acq: 01 Apr 2015 08:31

Instrument :

BNA_M

ClientSampleId :

MDL-07-S

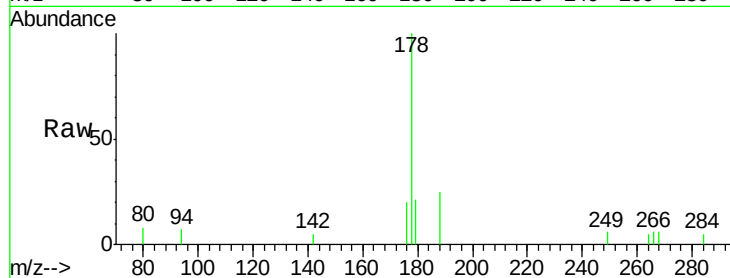
Tgt Ion:178 Resp: 2250

Ion Ratio Lower Upper

178 100

176 17.4 15.3 22.9

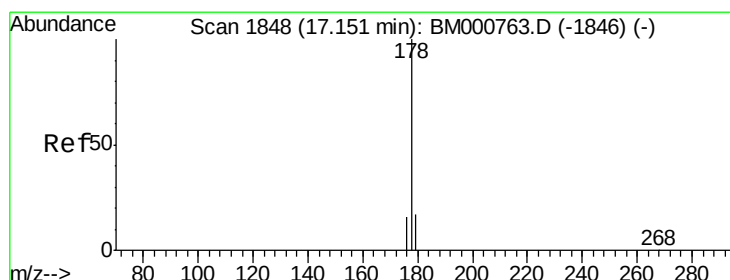
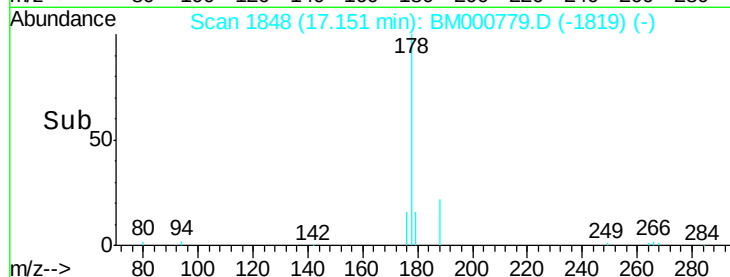
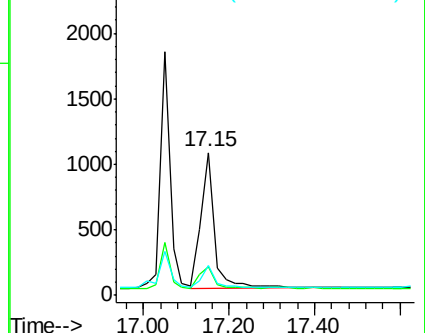
179 15.4 12.2 18.2



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: 0.07 ng

RT: 17.15 min Scan# 1848

Delta R.T. 0.00 min

Lab File: BM000779.D

Acq: 01 Apr 2015 08:31

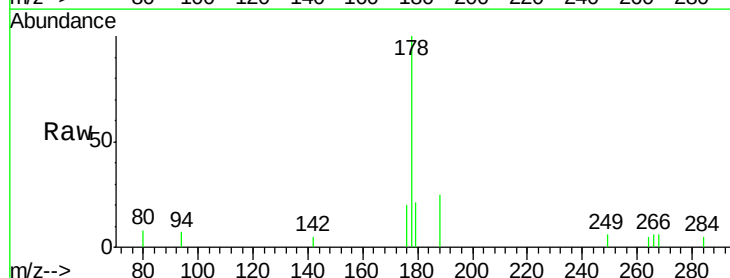
Tgt Ion:178 Resp: 2287

Ion Ratio Lower Upper

178 100

176 17.1 14.6 22.0

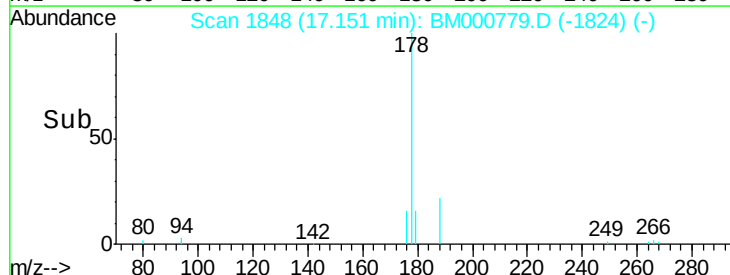
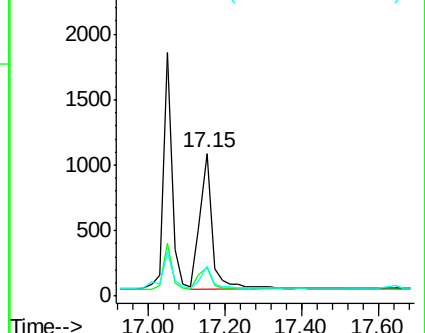
179 15.2 12.2 18.4

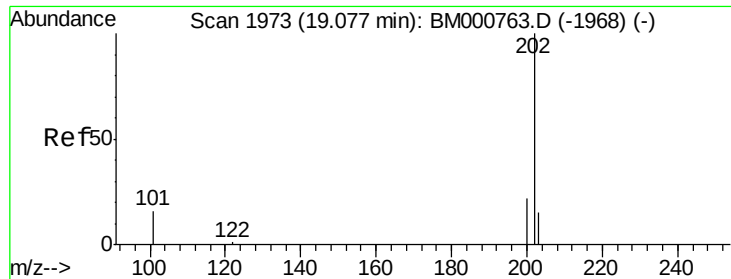


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

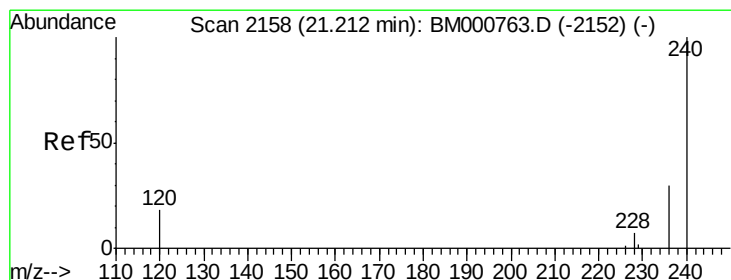
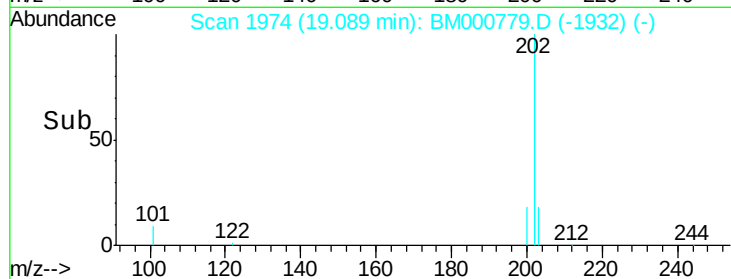
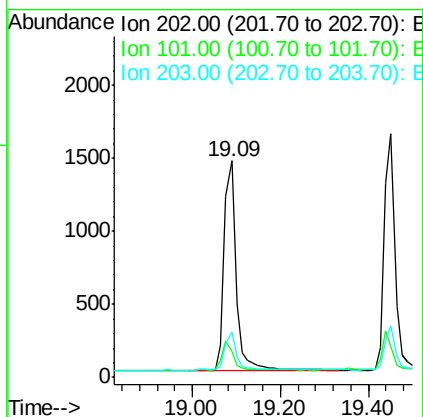
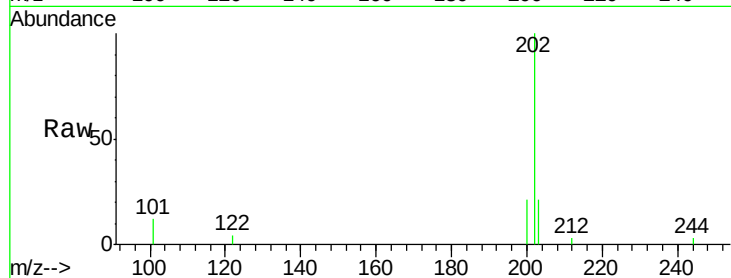




#18
 Fluoranthene
 Concen: 0.07 ng
 RT: 19.09 min Scan# 1974
 Delta R.T. 0.01 min
 Lab File: BM000779.D
 Acq: 01 Apr 2015 08:31

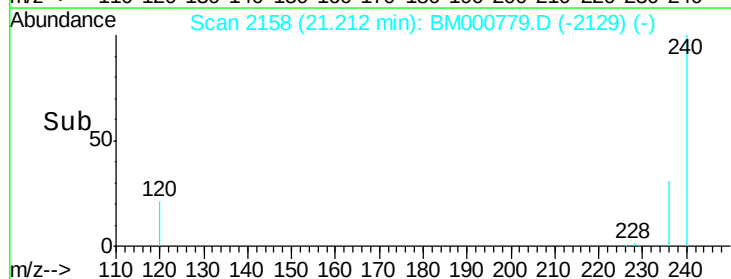
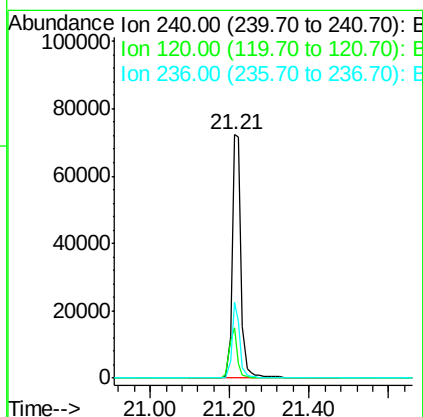
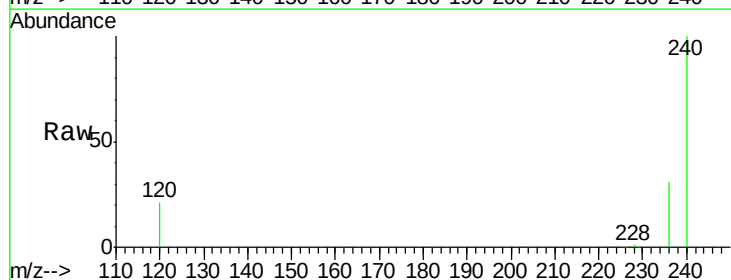
Instrument :
 BNA_M
 ClientSampleId :
 MDL-07-S

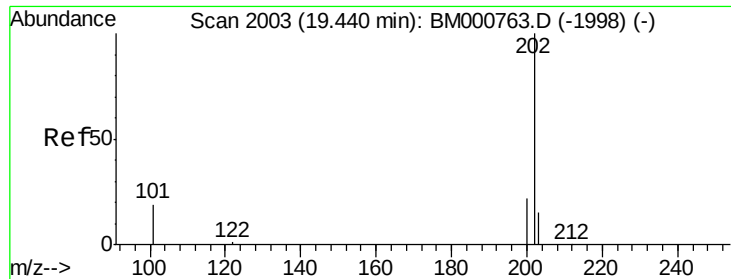
Tgt Ion: 202 Resp: 2683
 Ion Ratio Lower Upper
 202 100
 101 13.0 10.5 15.7
 203 17.7 13.8 20.8



#19
 Chrysene-d12
 Concen: 5.00 ng
 RT: 21.21 min Scan# 2158
 Delta R.T. 0.00 min
 Lab File: BM000779.D
 Acq: 01 Apr 2015 08:31

Tgt Ion: 240 Resp: 113821
 Ion Ratio Lower Upper
 240 100
 120 20.7 14.9 22.3
 236 31.0 24.2 36.4

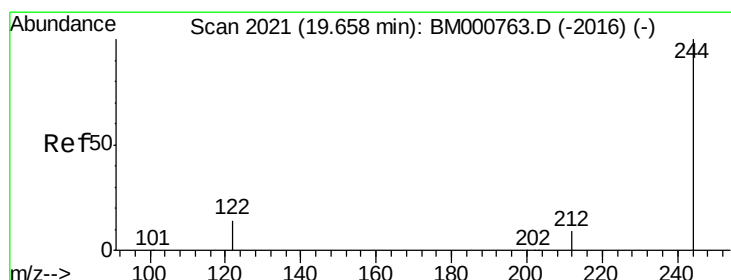
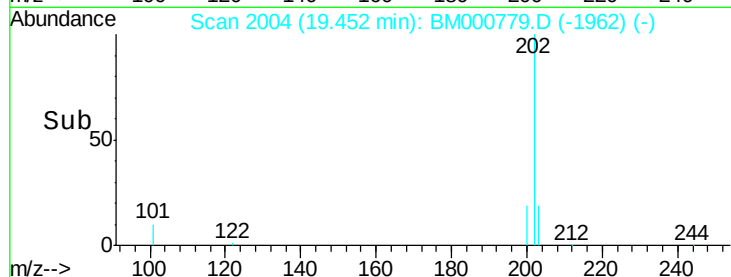
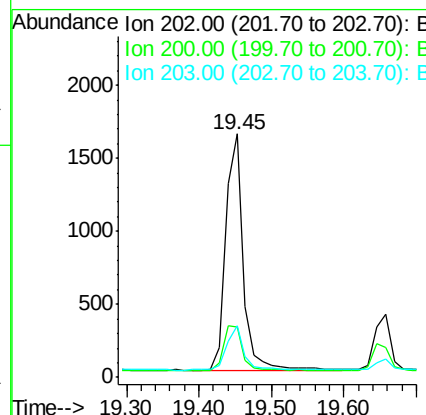
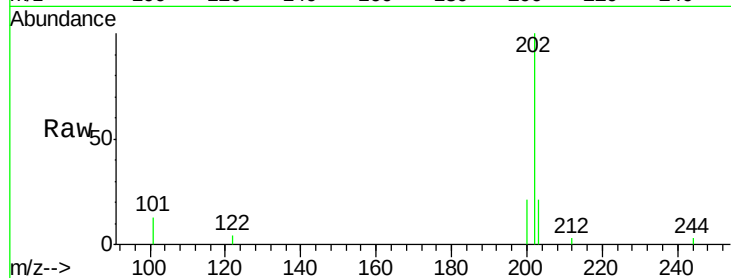




#20
Pyrene
Concen: 0.07 ng
RT: 19.45 min Scan# 2004
Delta R.T. 0.01 min
Lab File: BM000779.D
Acq: 01 Apr 2015 08:31

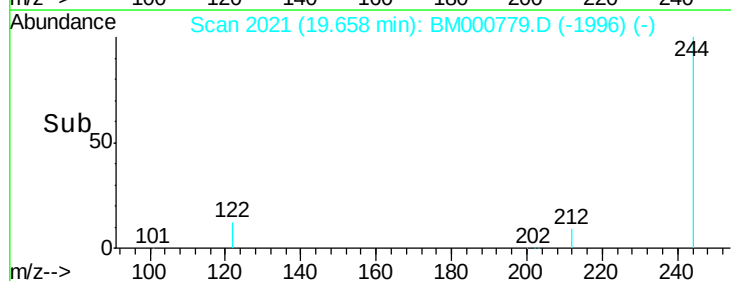
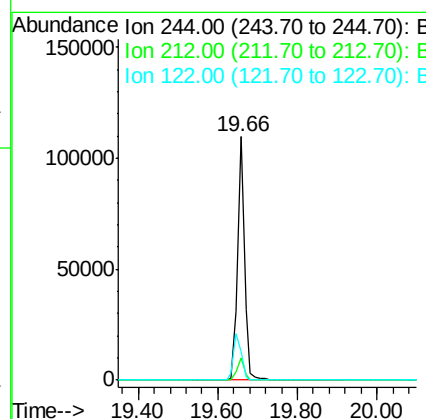
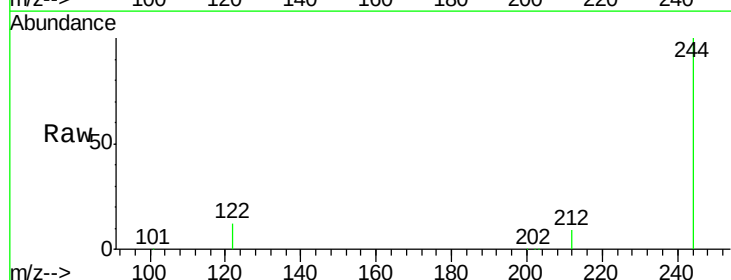
Instrument :
BNA_M
ClientSampleId :
MDL-07-S

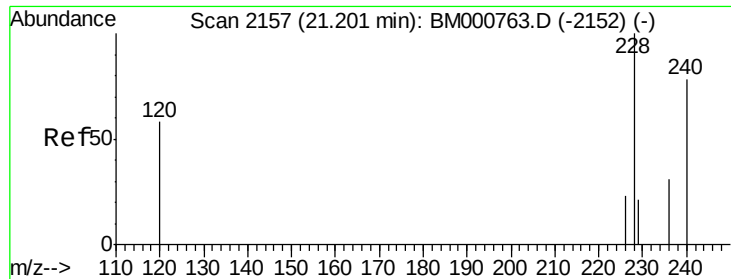
Tgt Ion: 202 Resp: 2746
Ion Ratio Lower Upper
202 100
200 20.8 16.2 24.2
203 18.5 13.9 20.9



#21
Terphenyl-d14
Concen: 9.60 ng
RT: 19.66 min Scan# 2021
Delta R.T. 0.00 min
Lab File: BM000779.D
Acq: 01 Apr 2015 08:31

Tgt Ion: 244 Resp: 131451
Ion Ratio Lower Upper
244 100
212 9.0 7.8 11.6
122 11.7 11.8 17.8#





#22

Benzo(a)anthracene

Concen: 0.08 ng

RT: 21.20 min Scan# 2157

Delta R.T. 0.00 min

Lab File: BM000779.D

Acq: 01 Apr 2015 08:31

Instrument :

BNA_M

ClientSampleId :

MDL-07-S

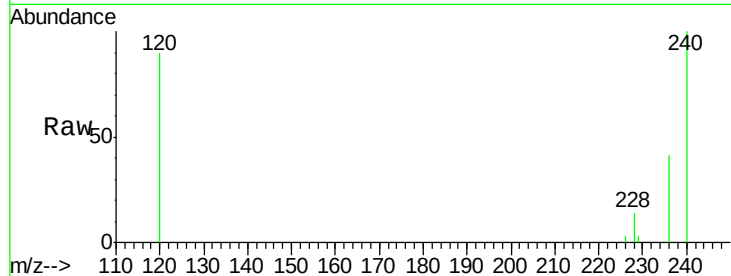
Tgt Ion:228 Resp: 2618

Ion Ratio Lower Upper

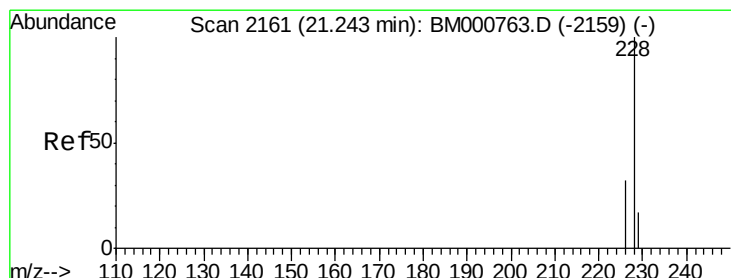
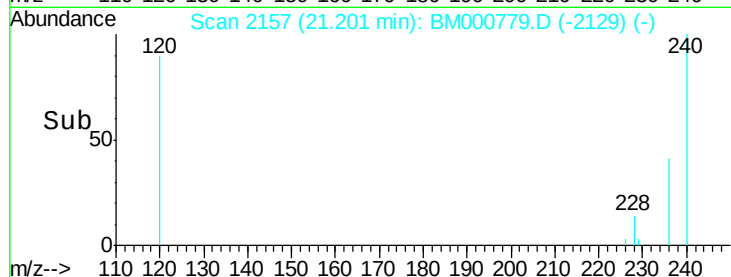
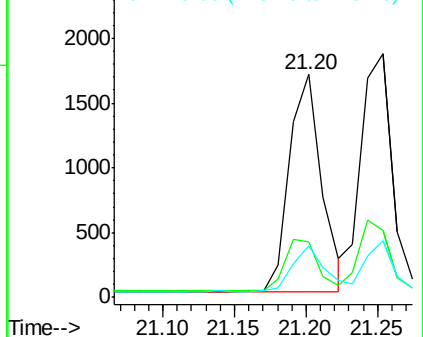
228 100

226 24.9 18.6 27.8

229 23.1 17.2 25.8



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: 0.09 ng

RT: 21.25 min Scan# 2162

Delta R.T. 0.01 min

Lab File: BM000779.D

Acq: 01 Apr 2015 08:31

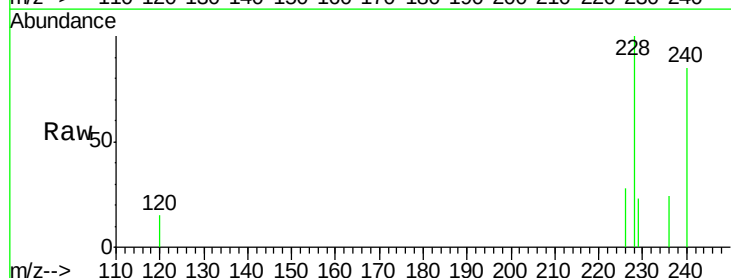
Tgt Ion:228 Resp: 2912

Ion Ratio Lower Upper

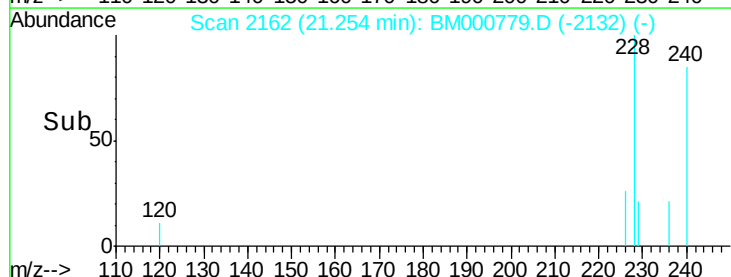
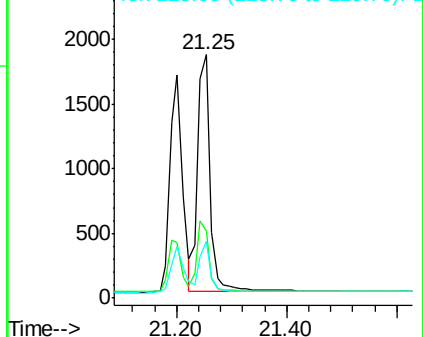
228 100

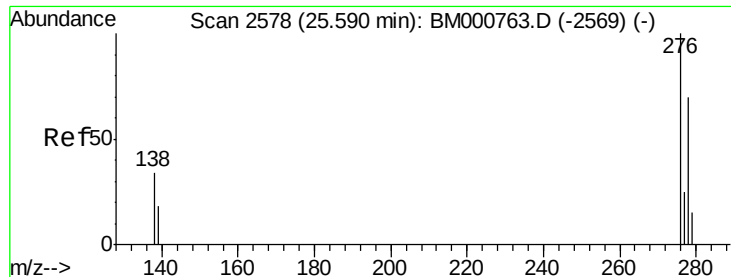
226 27.6 25.8 38.8

229 23.4 13.8 20.6#



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: 0.07 ng

RT: 25.59 min Scan# 2578

Delta R.T. 0.00 min

Lab File: BM000779.D

Acq: 01 Apr 2015 08:31

Instrument :

BNA_M

ClientSampleId :

MDL-07-S

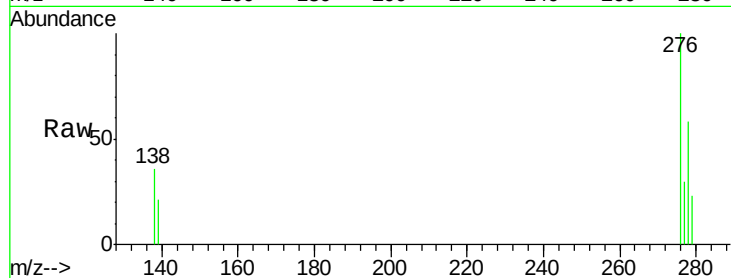
Tgt Ion:276 Resp: 2623

Ion Ratio Lower Upper

276 100

138 34.2 27.4 41.2

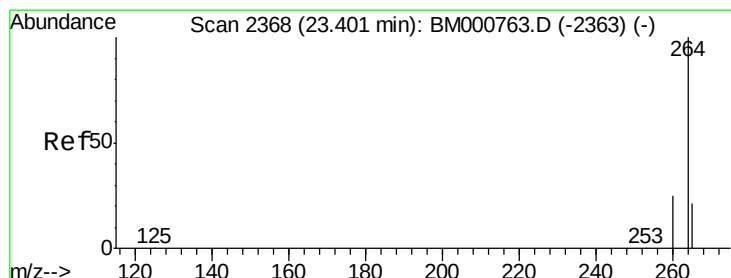
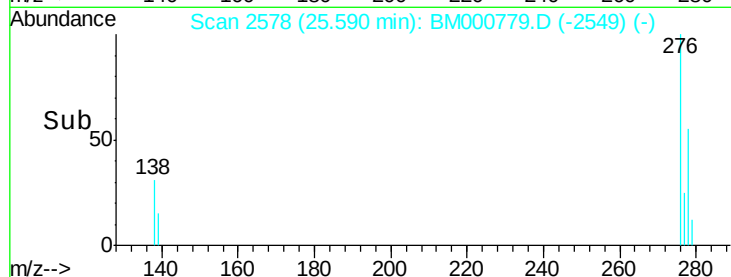
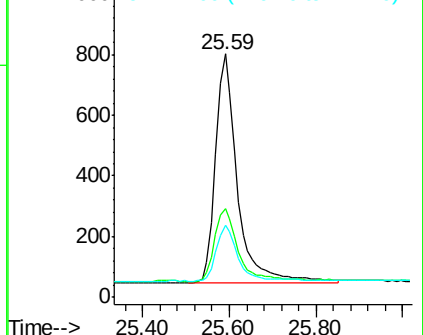
277 24.6 19.7 29.5



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: 23.40 min Scan# 2368

Delta R.T. 0.00 min

Lab File: BM000779.D

Acq: 01 Apr 2015 08:31

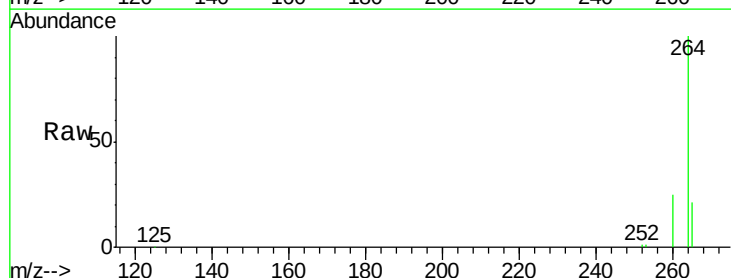
Tgt Ion:264 Resp: 106257

Ion Ratio Lower Upper

264 100

260 24.9 20.1 30.1

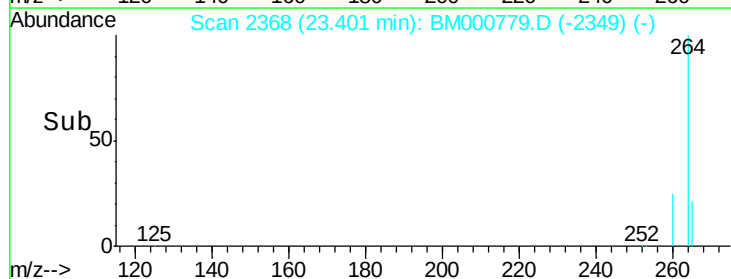
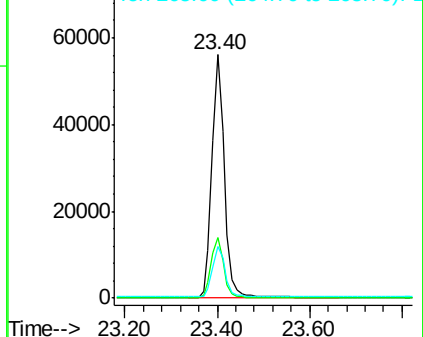
265 21.1 17.4 26.0

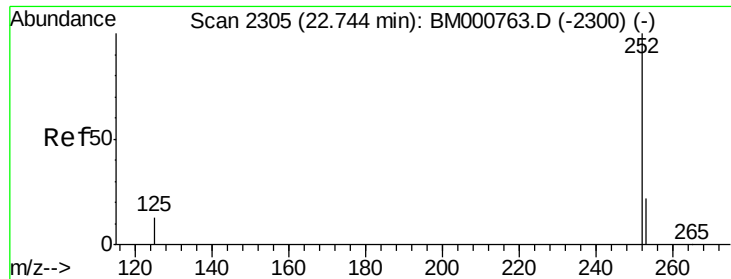


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

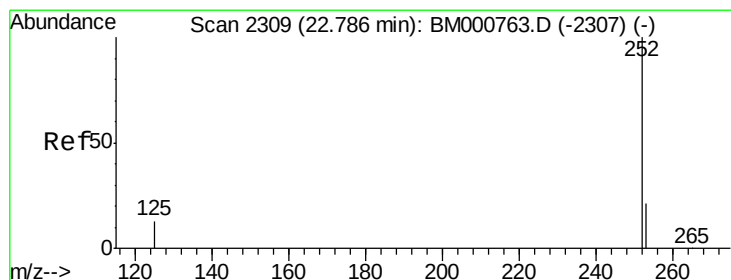
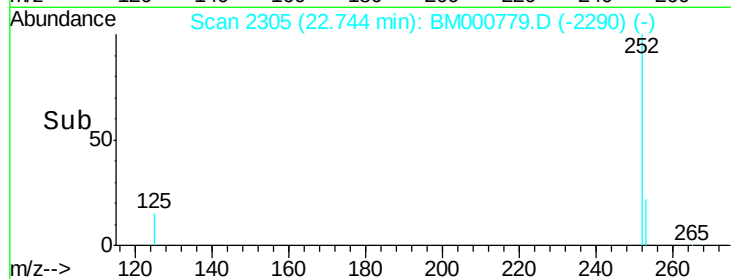
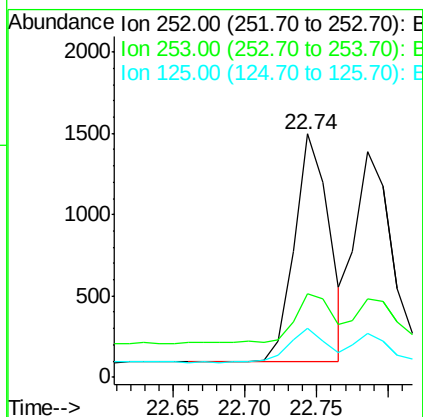
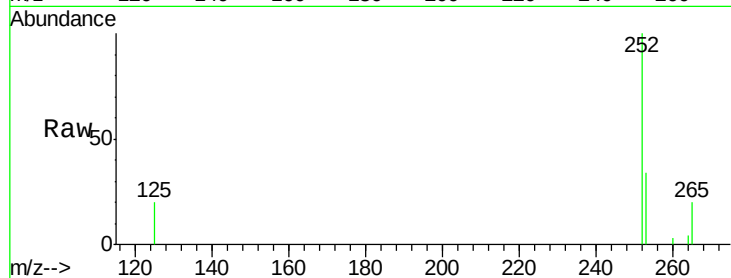




#26
Benzo(b)fluoranthene
Concen: 0.07 ng
RT: 22.74 min Scan# 2305
Delta R.T. 0.00 min
Lab File: BM000779.D
Acq: 01 Apr 2015 08:31

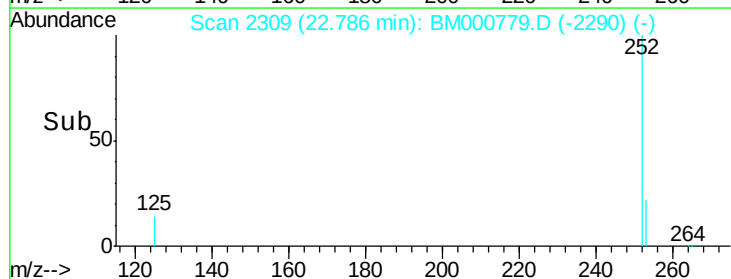
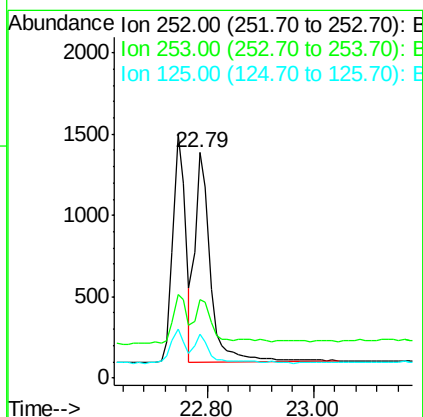
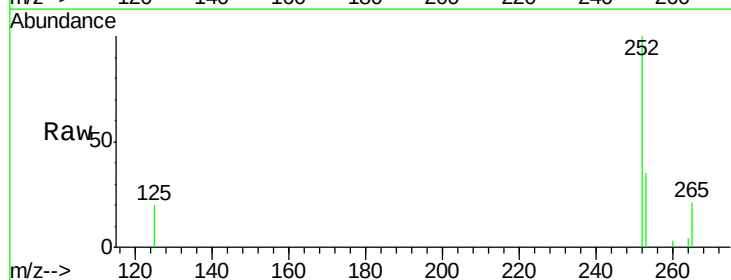
Instrument :
BNA_M
ClientSampleId :
MDL-07-S

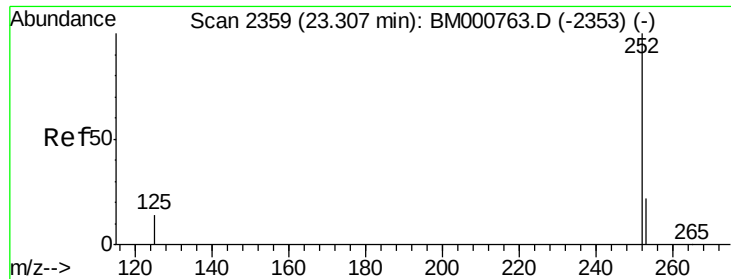
Tgt Ion:252 Resp: 2372
Ion Ratio Lower Upper
252 100
253 34.3 18.5 27.7#
125 20.0 10.6 16.0#



#27
Benzo(k)fluoranthene
Concen: 0.08 ng
RT: 22.79 min Scan# 2309
Delta R.T. 0.00 min
Lab File: BM000779.D
Acq: 01 Apr 2015 08:31

Tgt Ion:252 Resp: 2606
Ion Ratio Lower Upper
252 100
253 34.9 17.9 26.9#
125 19.6 10.8 16.2#





#28

Benzo(a)pyrene

Concen: 0.07 ng

RT: 23.31 min Scan# 2359

Delta R.T. 0.00 min

Lab File: BM000779.D

Acq: 01 Apr 2015 08:31

Instrument :

BNA_M

ClientSampled :

MDL-07-S

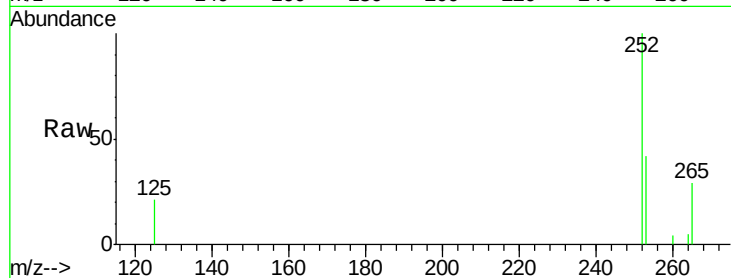
Tgt Ion: 252 Resp: 2135

Ion Ratio Lower Upper

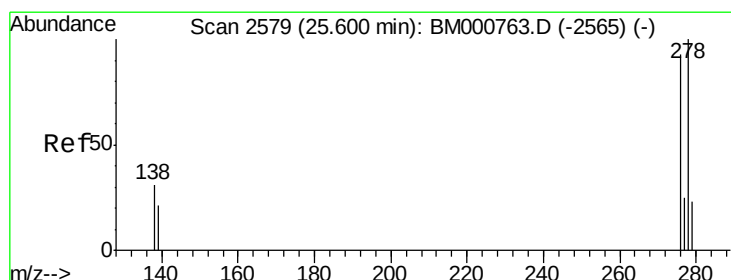
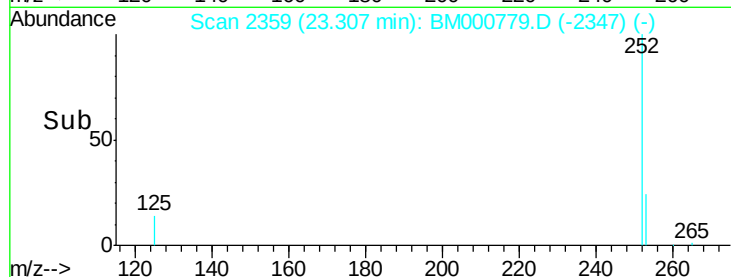
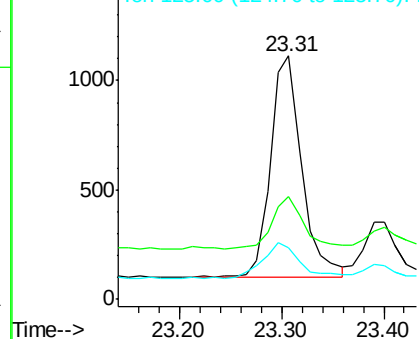
252 100

253 42.2 19.4 29.2#

125 21.5 11.5 17.3#



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: 0.07 ng

RT: 25.61 min Scan# 2580

Delta R.T. 0.01 min

Lab File: BM000779.D

Acq: 01 Apr 2015 08:31

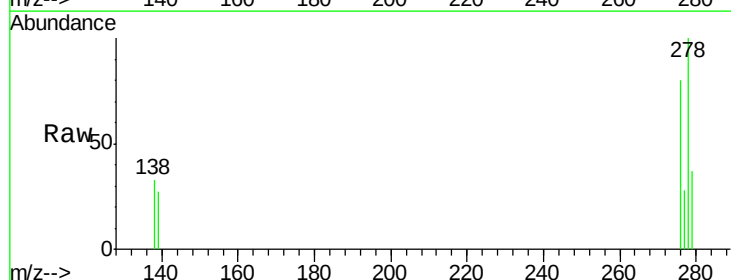
Tgt Ion: 278 Resp: 2095

Ion Ratio Lower Upper

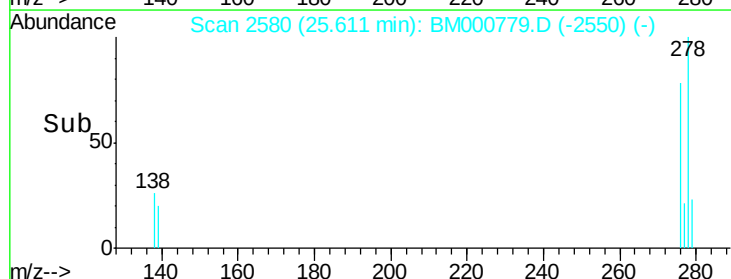
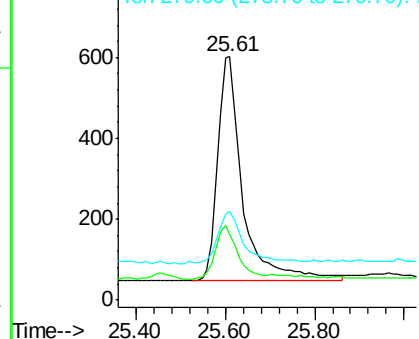
278 100

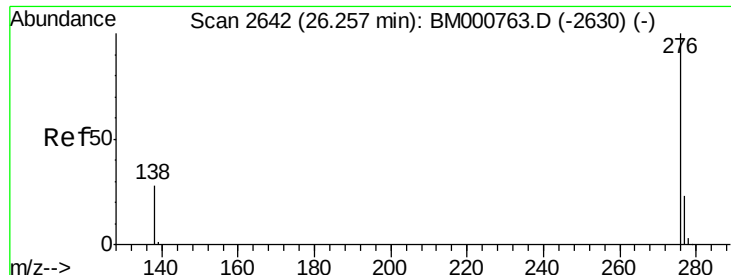
139 27.2 17.8 26.6#

279 36.5 19.3 28.9#



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





#30

Benzo(g,h,i)perylene

Concen: 0.08 ng

RT: 26.26 min Scan# 2642

Delta R.T. 0.00 min

Lab File: BM000779.D

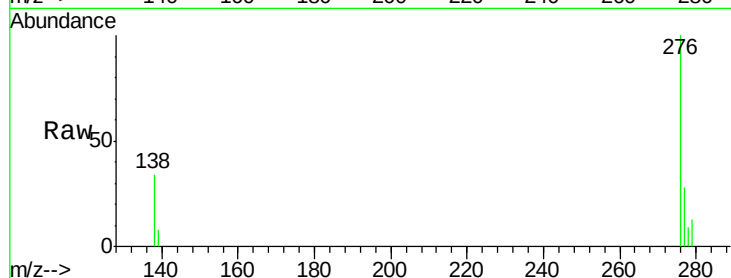
Acq: 01 Apr 2015 08:31

Instrument :

BNA_M

ClientSampleId :

MDL-07-S



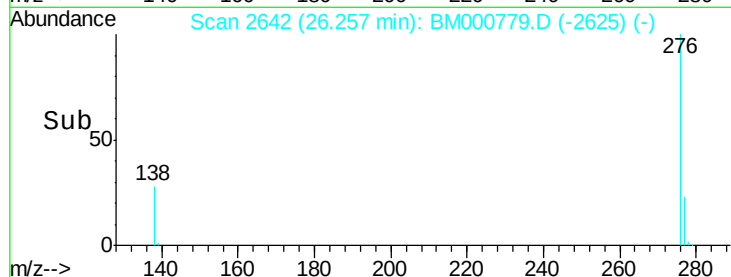
Tgt Ion: 276 Resp: 2434

Ion Ratio Lower Upper

276 100

277 28.4 19.1 28.7

138 33.6 23.1 34.7



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

