

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM033115\
 Data File : BM000778.D
 Acq On : 01 Apr 2015 07:20
 Operator : TP/IZ
 Sample : MDL-06-S
 Misc : MDL-SOIL-0.1/0.2PPM
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 MDL-06-S

Quant Time: Apr 01 15:10:10 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	39978	5.00	ng	0.00
4) Naphthalene-d8	10.40	136	135479	5.00	ng	0.00
8) Acenaphthene-d10	14.28	164	66356	5.00	ng	0.00
13) Phenanthrene-d10	17.01	188	149693	5.00	ng	0.00
19) Chrysene-d12	21.21	240	123931	5.00	ng	0.00
25) Perylene-d12	23.40	264	115943	5.00	ng	0.00

System Monitoring Compounds						
5) Nitrobenzene-d5	8.77	82	65799	7.91	ng	0.00
9) 2-Fluorobiphenyl	12.89	172	195524	9.50	ng	0.00
21) Terphenyl-d14	19.66	244	156958	10.53	ng	0.00

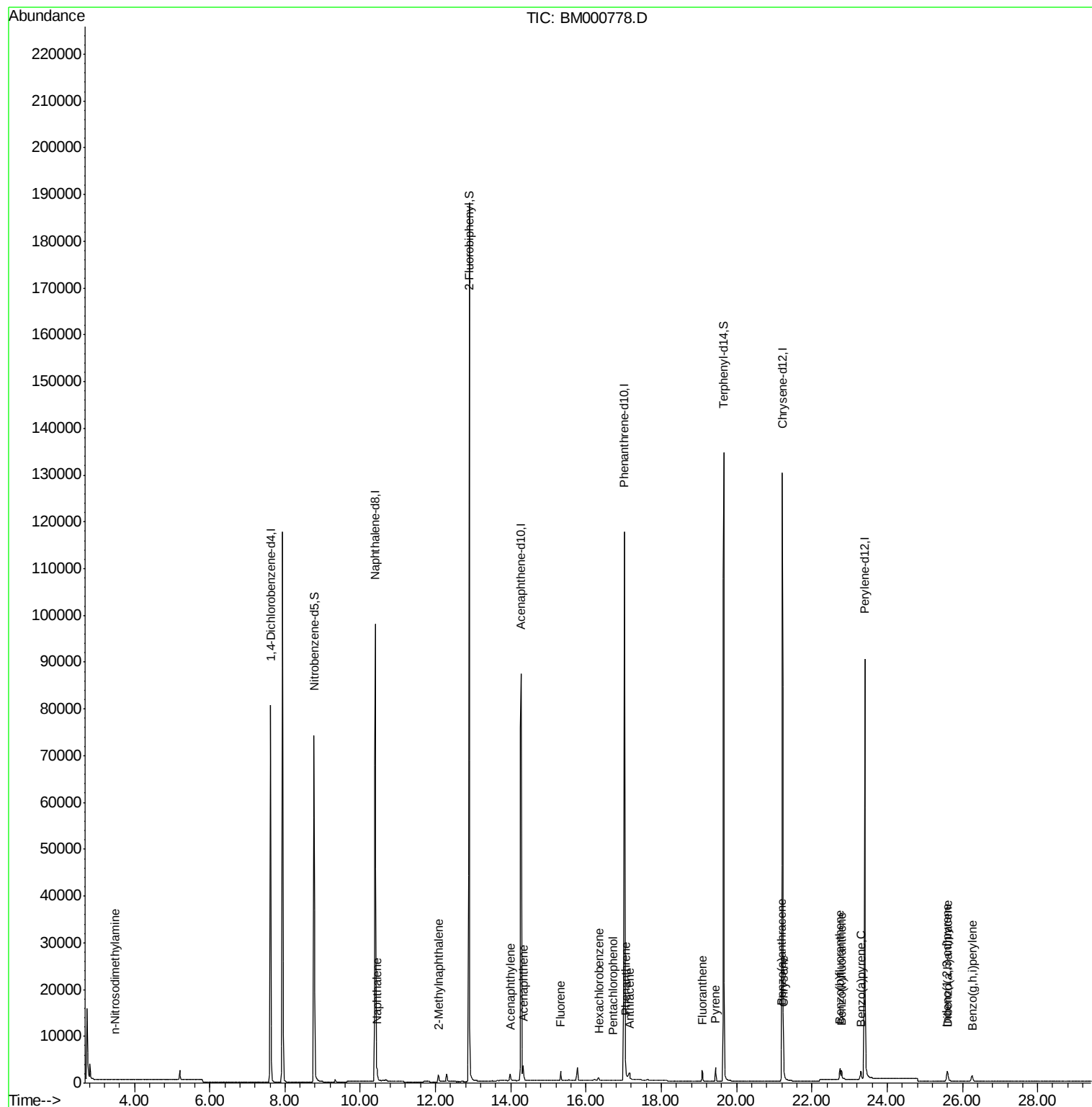
Target Compounds						Qvalue
3) n-Nitrosodimethylamine	3.49	42	114	0.18	ng	# 78
6) Naphthalene	10.45	128	2437	0.08	ng	# 94
7) 2-Methylnaphthalene	12.08	142	1446	0.07	ng	96
10) Acenaphthylene	13.99	152	1869	0.06	ng	99
11) Acenaphthene	14.33	154	1449	0.07	ng	96
12) Fluorene	15.32	166	1709	0.08	ng	100
14) Hexachlorobenzene	16.33	284	624	0.07	ng	# 100
15) Pentachlorophenol	16.70	266	17	0.37	ng	# 58
16) Phenanthrene	17.05	178	3111	0.08	ng	# 94
17) Anthracene	17.16	178	2467	0.07	ng	# 76
18) Fluoranthene	19.08	202	2936	0.07	ng	99
20) Pyrene	19.44	202	3059	0.08	ng	99
22) Benzo(a)anthracene	21.19	228	3004	0.08	ng	# 91
23) Chrysene	21.25	228	3240	0.09	ng	98
24) Indeno(1,2,3-cd)pyrene	25.59	276	2997	0.08	ng	99
26) Benzo(b)fluoranthene	22.75	252	2761	0.08	ng	# 83
27) Benzo(k)fluoranthene	22.79	252	2868	0.08	ng	# 81
28) Benzo(a)pyrene	23.30	252	2452	0.08	ng	# 74
29) Dibenzo(a,h)anthracene	25.60	278	2371	0.08	ng	# 83
30) Benzo(g,h,i)perylene	26.26	276	2726	0.08	ng	92

(#) = 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: BM000778.D

Acq: 01 Apr 2015 07:20

Instrument :

BNA_M

ClientSampled :

MDL-06-S

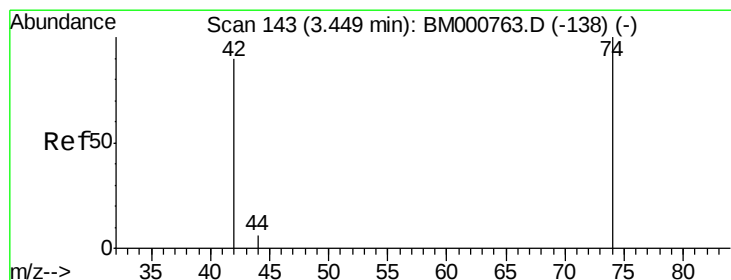
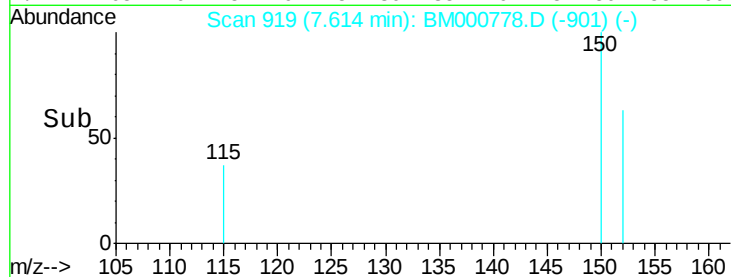
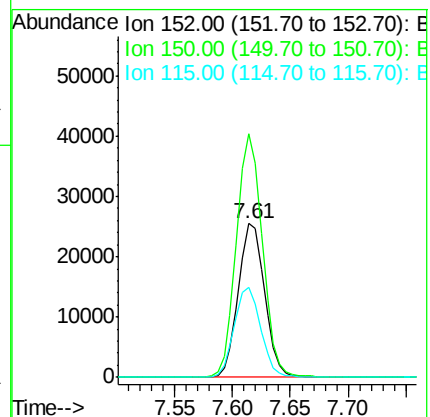
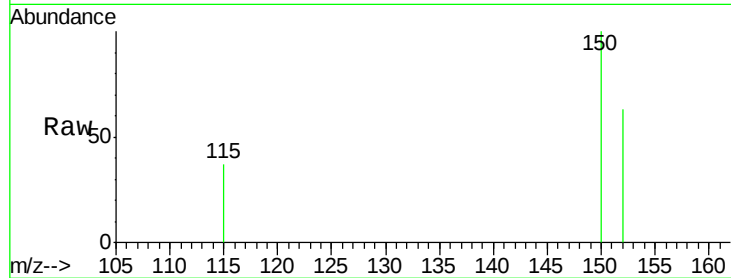
Tgt Ion:152 Resp: 39978

Ion Ratio Lower Upper

152 100

150 158.7 120.8 181.2

115 58.9 42.7 64.1



#3

n-Nitrosodimethylamine

Concen: 0.18 ng

RT: 3.49 min Scan# 150

Delta R.T. 0.04 min

Lab File: BM000778.D

Acq: 01 Apr 2015 07:20

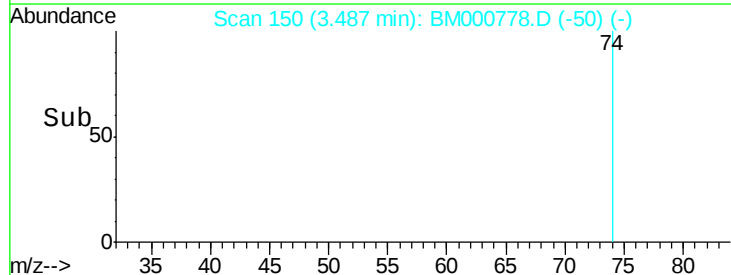
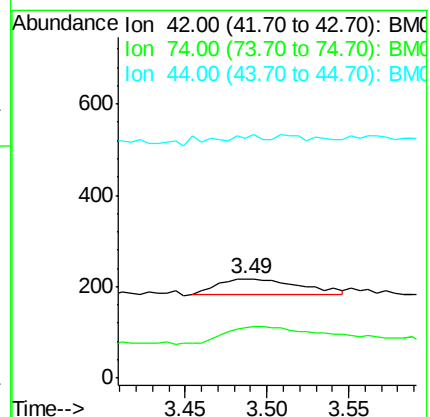
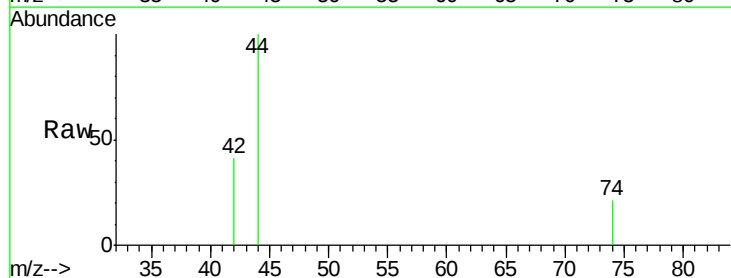
Tgt Ion: 42 Resp: 114

Ion Ratio Lower Upper

42 100

74 141.2 93.6 140.4#

44 12.3 6.3 9.5#





#4

Naphthalene-d8

Concen: 5.00 ng

RT: 10.40 min Scan# 1359

Delta R.T. 0.00 min

Lab File: BM000778.D

Acq: 01 Apr 2015 07:20

Instrument :

BNA_M

ClientSampleId :

MDL-06-S

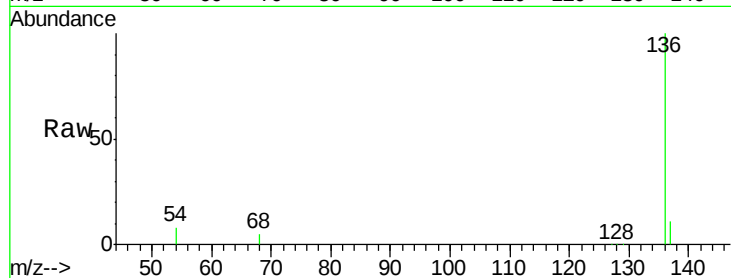
Tgt Ion: 136 Resp: 135479

Ion Ratio Lower Upper

136 100

137 10.9 8.6 12.8

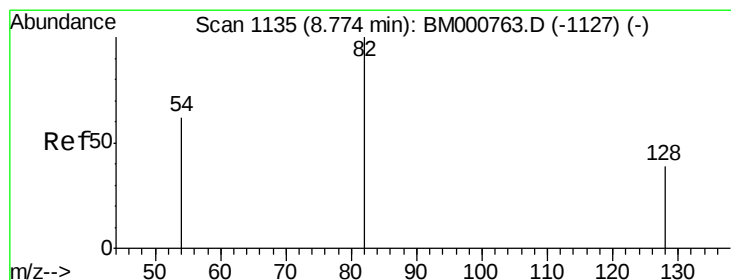
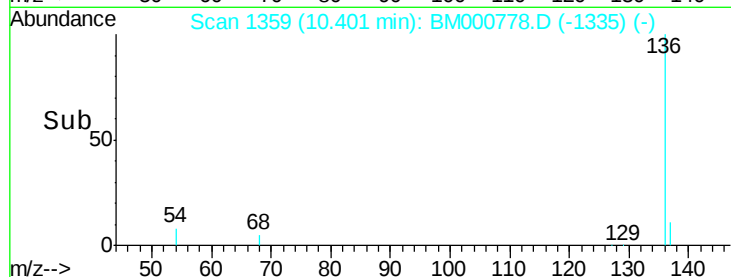
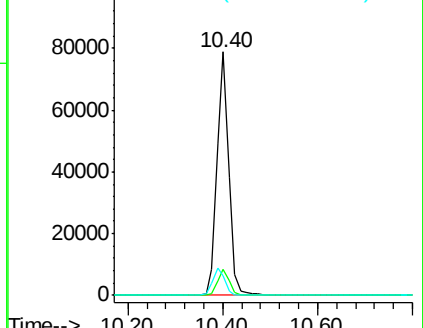
54 7.9 7.0 10.6



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: 7.91 ng

RT: 8.77 min Scan# 1135

Delta R.T. 0.00 min

Lab File: BM000778.D

Acq: 01 Apr 2015 07:20

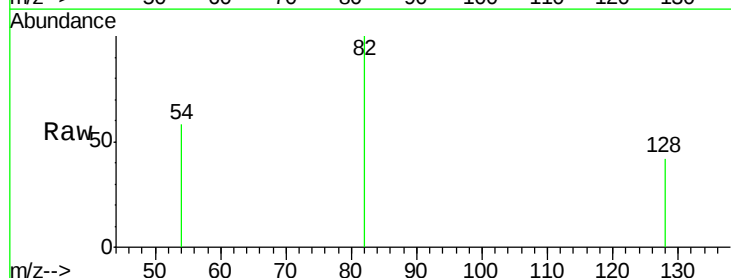
Tgt Ion: 82 Resp: 65799

Ion Ratio Lower Upper

82 100

128 42.4 32.2 48.2

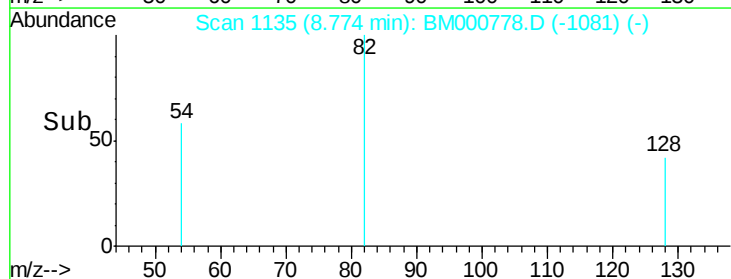
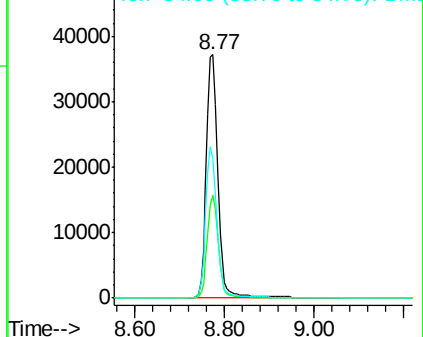
54 57.7 50.2 75.4



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: BM000778.D

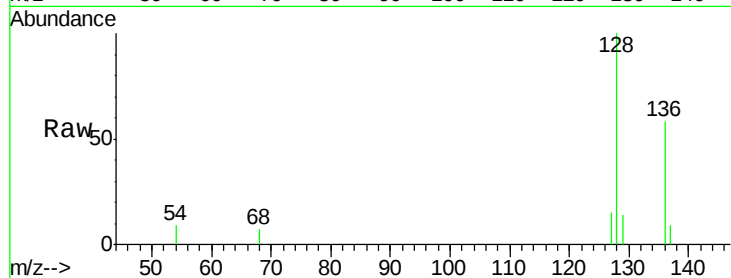
Acq: 01 Apr 2015 07:20

Instrument :

BNA_M

ClientSampleId :

MDL-06-S



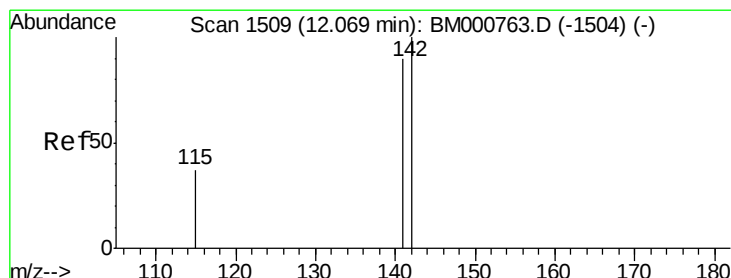
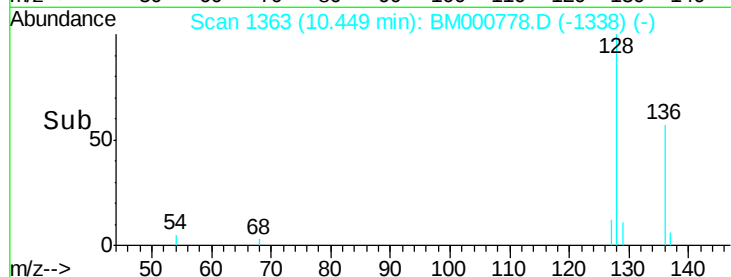
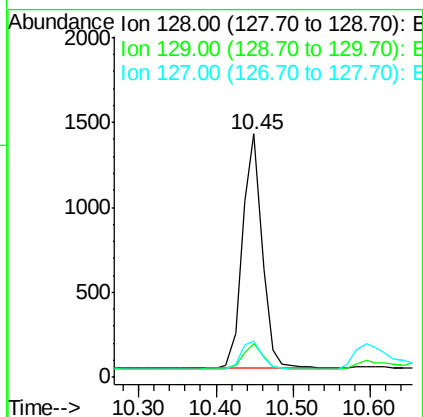
Tgt Ion:128 Resp: 2437

Ion Ratio Lower Upper

128 100

129 13.8 8.9 13.3#

127 14.7 10.0 15.0



#7

2-Methylnaphthalene

Concen: 0.07 ng

RT: 12.08 min Scan# 1510

Delta R.T. 0.01 min

Lab File: BM000778.D

Acq: 01 Apr 2015 07:20

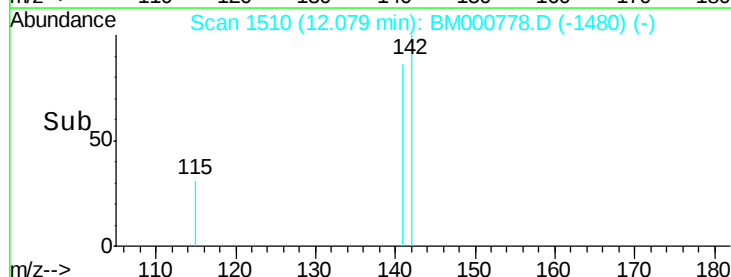
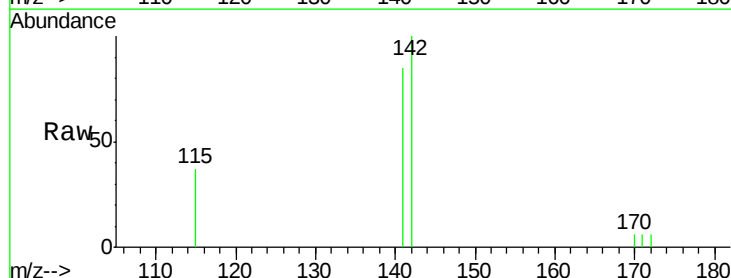
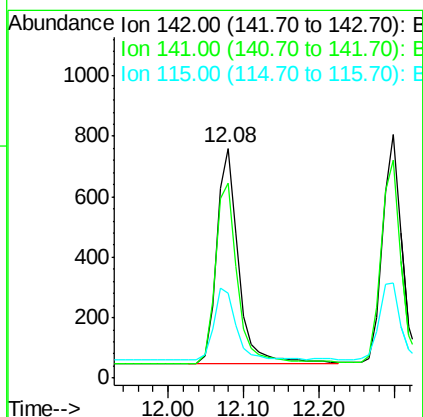
Tgt Ion:142 Resp: 1446

Ion Ratio Lower Upper

142 100

141 84.9 72.3 108.5

115 36.7 29.5 44.3





#8

Acenaphthene-d10

Concen: 5.00 ng

RT: 14.28 min Scan# 1692

Delta R.T. 0.00 min

Lab File: BM000778.D

Acq: 01 Apr 2015 07:20

Instrument :

BNA_M

ClientSampleId :

MDL-06-S

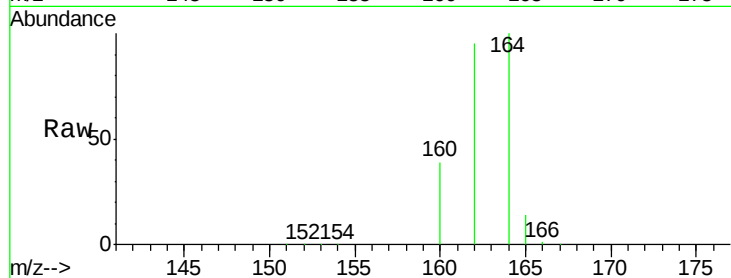
Tgt Ion:164 Resp: 66356

Ion Ratio Lower Upper

164 100

162 94.6 75.4 113.2

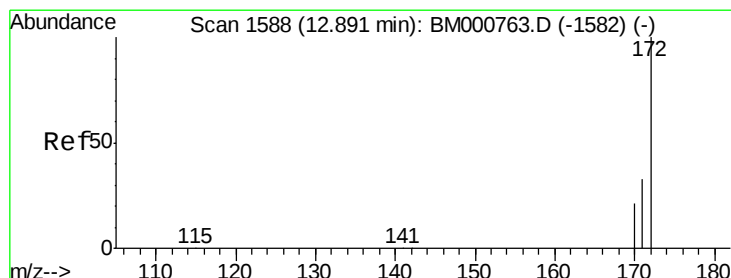
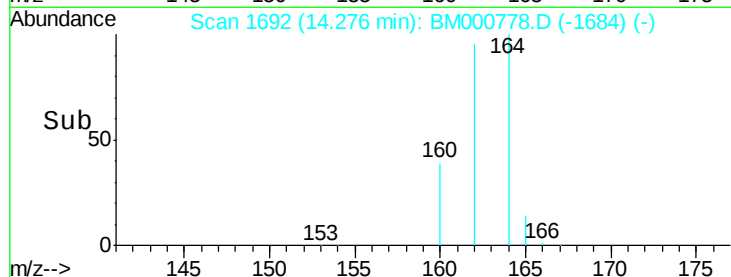
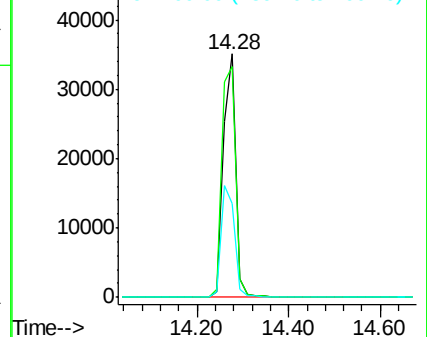
160 38.8 30.8 46.2



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: 9.50 ng

RT: 12.89 min Scan# 1588

Delta R.T. 0.00 min

Lab File: BM000778.D

Acq: 01 Apr 2015 07:20

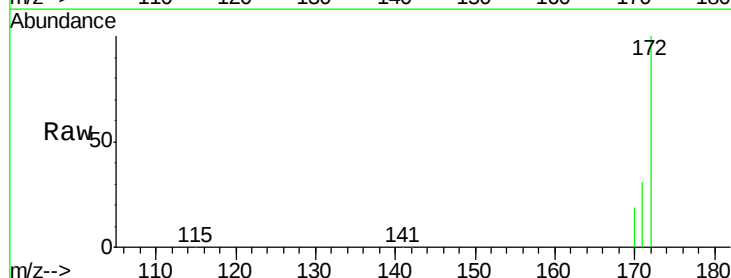
Tgt Ion:172 Resp: 195524

Ion Ratio Lower Upper

172 100

171 31.4 26.6 39.8

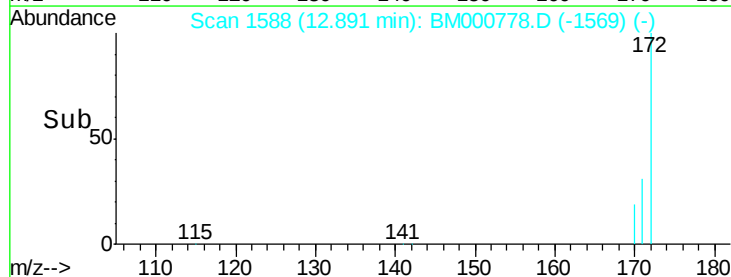
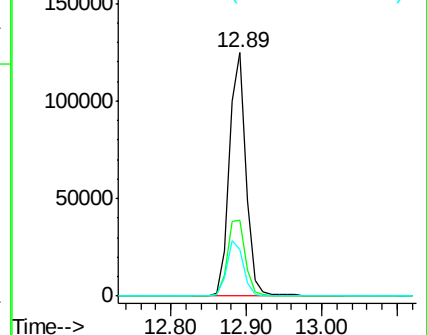
170 19.0 17.1 25.7

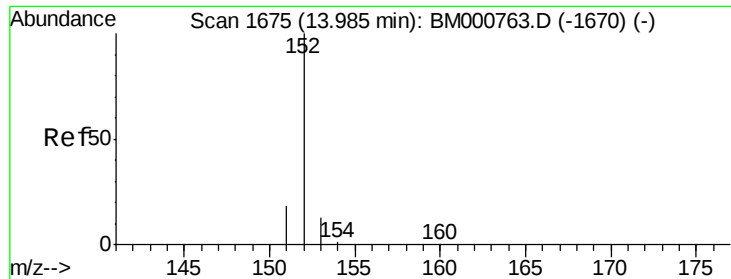


Abundance Ion 172.00 (171.70 to 172.70): E

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: 13.99 min Scan# 1675

Delta R.T. 0.00 min

Lab File: BM000778.D

Acq: 01 Apr 2015 07:20

Instrument :

BNA_M

ClientSampleId :

MDL-06-S

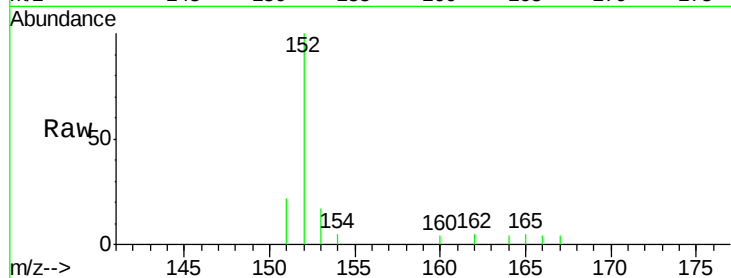
Tgt Ion:152 Resp: 1869

Ion Ratio Lower Upper

152 100

151 18.6 15.1 22.7

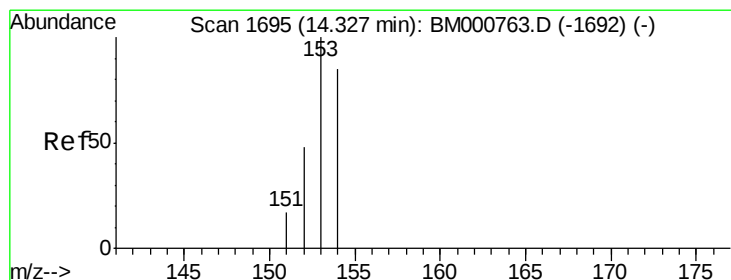
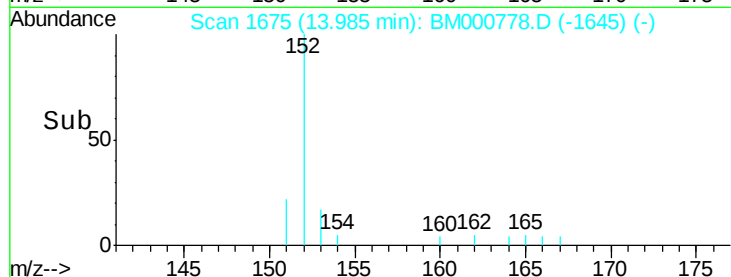
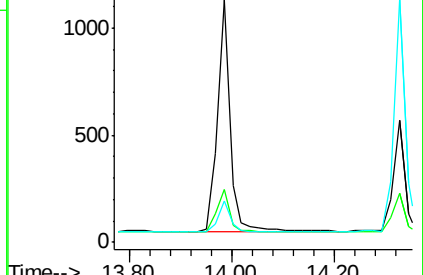
153 13.4 10.2 15.4



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: BM000778.D

Acq: 01 Apr 2015 07:20

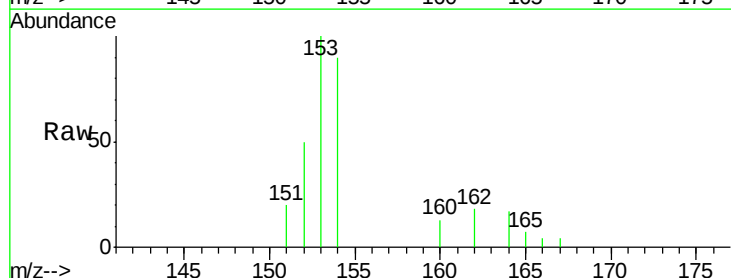
Tgt Ion:154 Resp: 1449

Ion Ratio Lower Upper

154 100

153 113.9 87.3 130.9

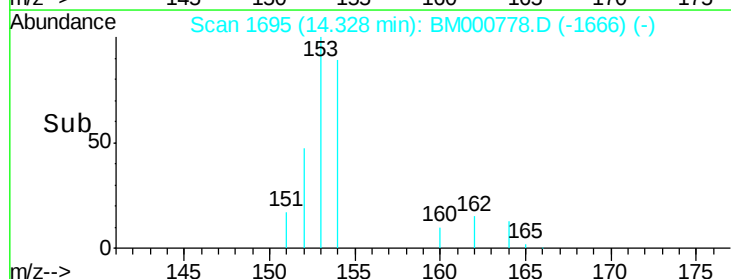
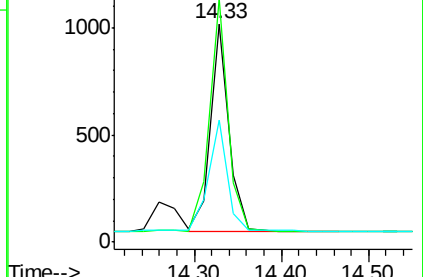
152 54.8 43.0 64.6

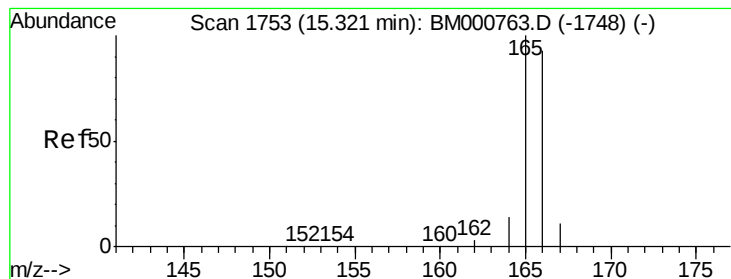


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E





#12

Fluorene

Concen: 0.08 ng

RT: 15.32 min Scan# 1753

Delta R.T. 0.00 min

Lab File: BM000778.D

Acq: 01 Apr 2015 07:20

Instrument :

BNA_M

ClientSampleId :

MDL-06-S

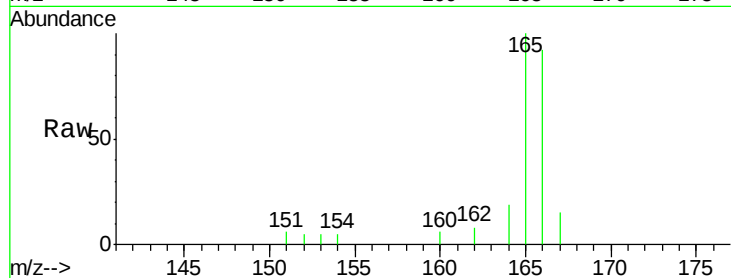
Tgt Ion:166 Resp: 1709

Ion Ratio Lower Upper

166 100

165 98.1 78.2 117.2

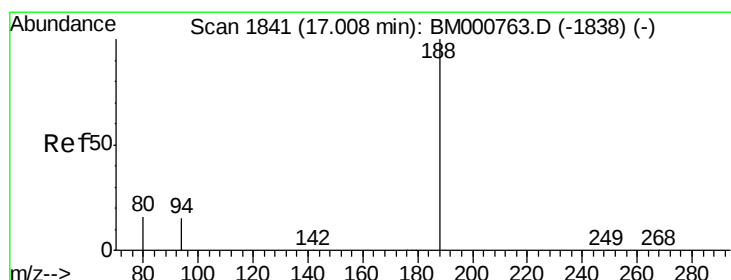
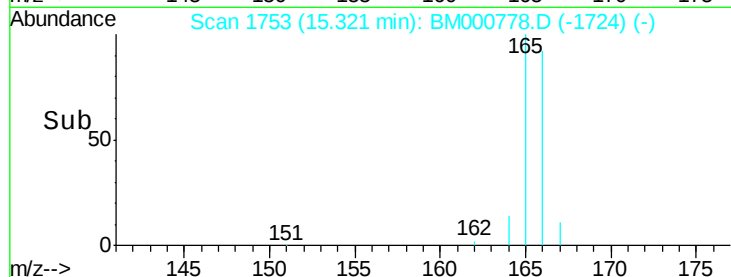
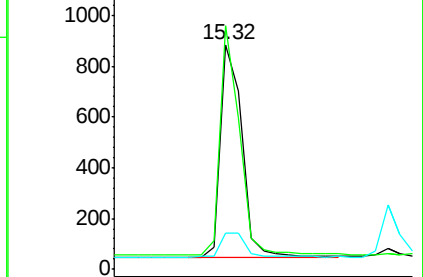
167 13.3 10.7 16.1



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: BM000778.D

Acq: 01 Apr 2015 07:20

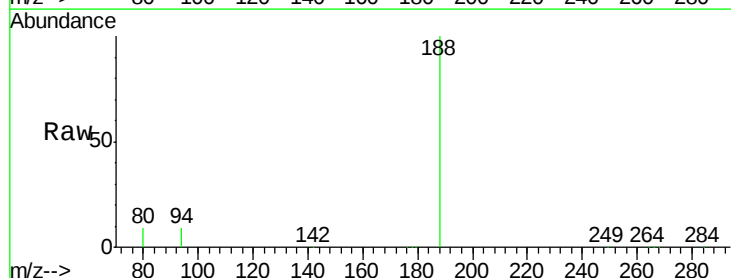
Tgt Ion:188 Resp: 149693

Ion Ratio Lower Upper

188 100

94 8.7 12.0 18.0#

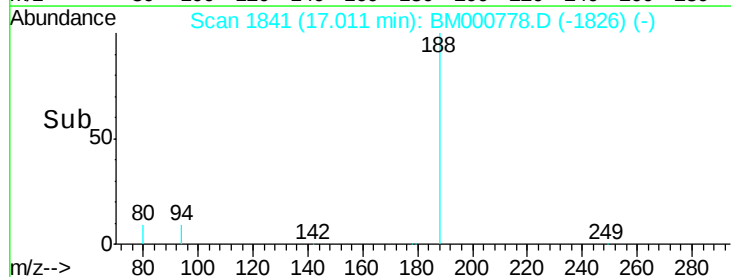
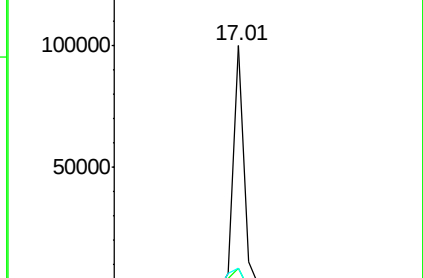
80 8.6 12.8 19.2#



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

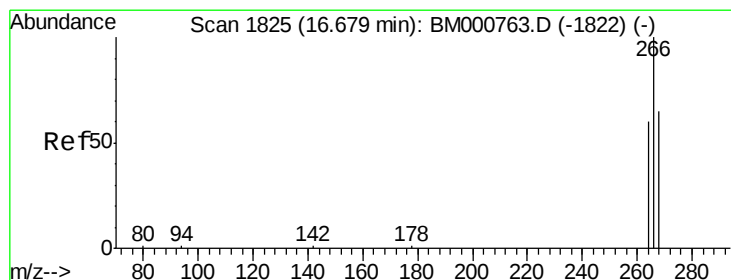
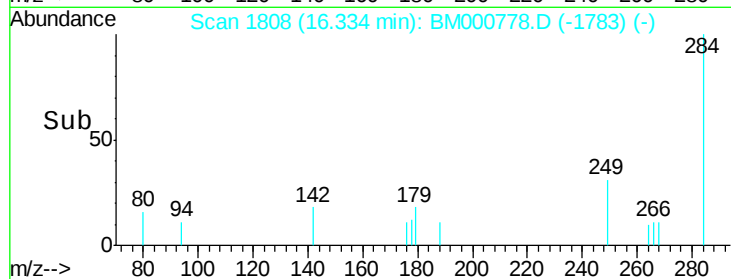
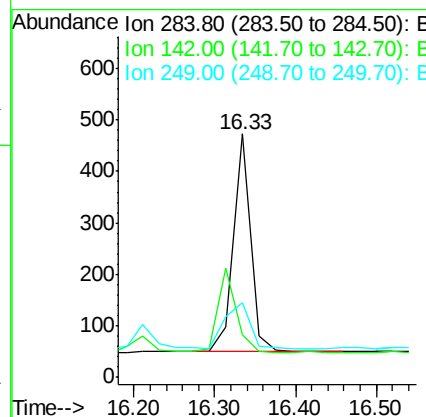
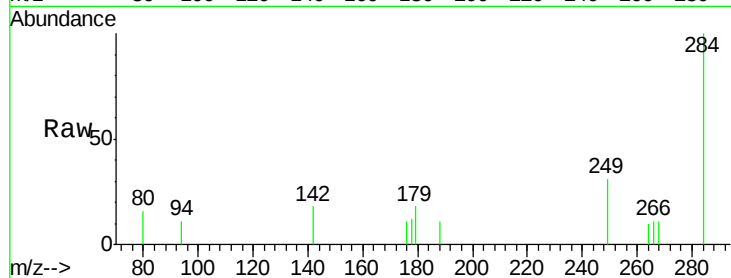




#14
Hexachlorobenzene
Concen: 0.07 ng
RT: 16.33 min Scan# 1808
Delta R.T. 0.00 min
Lab File: BM000778.D
Acq: 01 Apr 2015 07:20

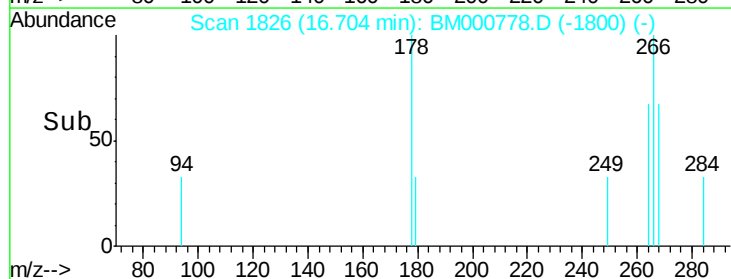
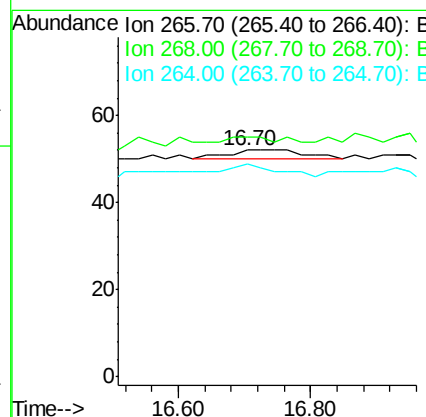
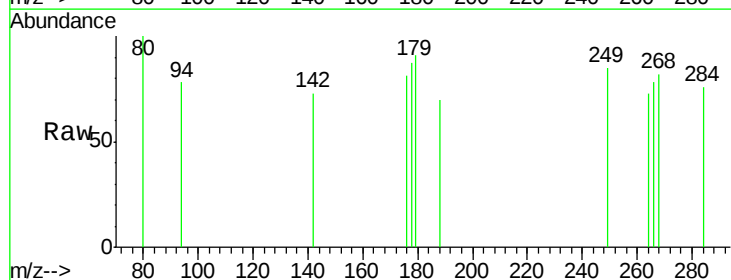
Instrument :
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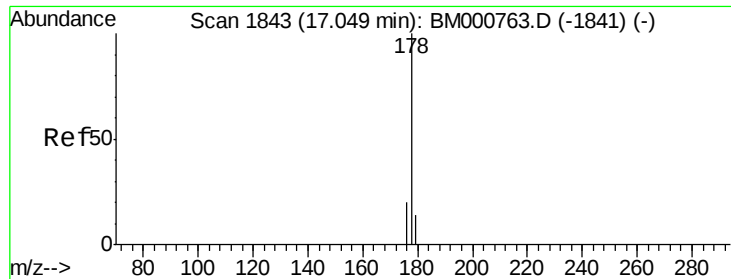
Tgt Ion: 284 Resp: 624
Ion Ratio Lower Upper
284 100
142 0.0 0.0 0.0
249 31.6 25.2 37.8



#15
Pentachlorophenol
Concen: 0.37 ng
RT: 16.70 min Scan# 1826
Delta R.T. 0.02 min
Lab File: BM000778.D
Acq: 01 Apr 2015 07:20

Tgt Ion: 266 Resp: 17
Ion Ratio Lower Upper
266 100
268 105.8 55.0 82.6#
264 94.2 51.0 76.4#





#16

Phenanthrene

Concen: 0.08 ng

RT: 17.05 min Scan# 1843

Delta R.T. 0.00 min

Lab File: BM000778.D

Acq: 01 Apr 2015 07:20

Instrument :

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ClientSampleId :

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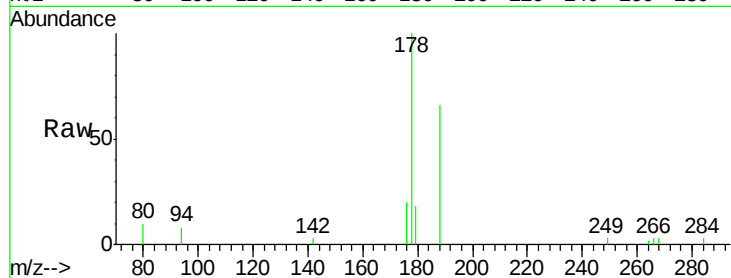
Tgt Ion:178 Resp: 3111

Ion Ratio Lower Upper

178 100

176 18.5 15.3 22.9

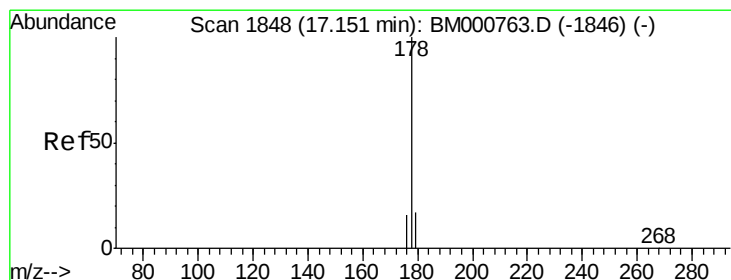
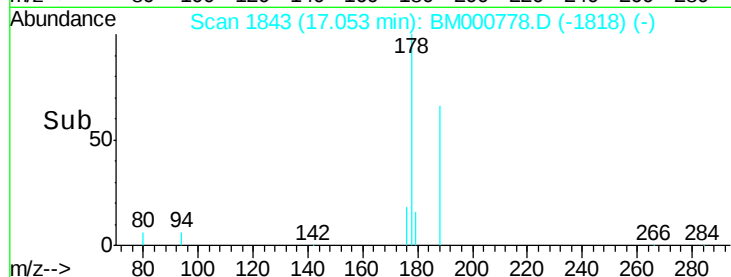
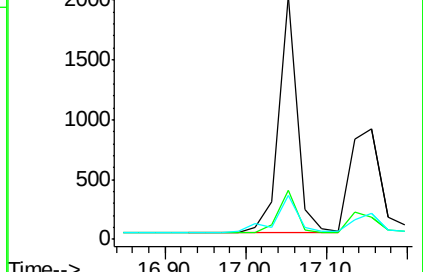
179 20.0 12.2 18.2#



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: 17.16 min Scan# 1848

Delta R.T. 0.00 min

Lab File: BM000778.D

Acq: 01 Apr 2015 07:20

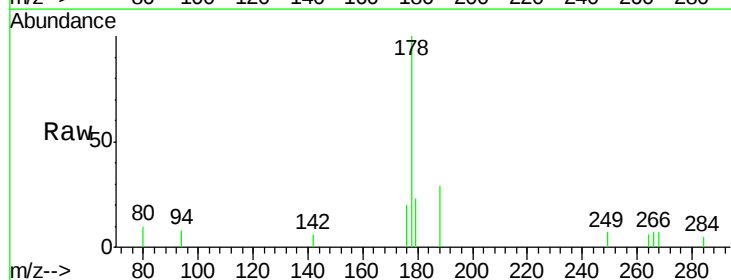
Tgt Ion:178 Resp: 2467

Ion Ratio Lower Upper

178 100

176 0.0 14.6 22.0#

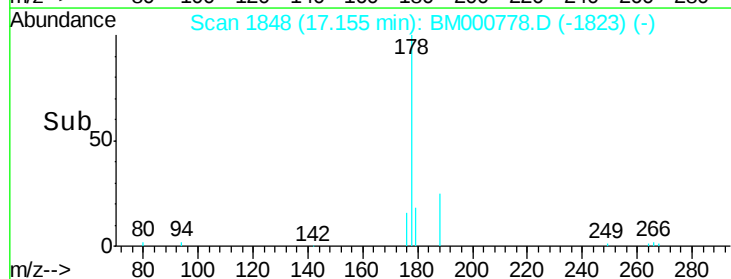
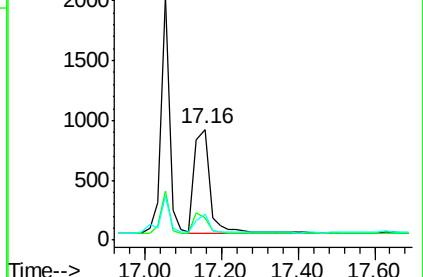
179 16.4 12.2 18.4



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

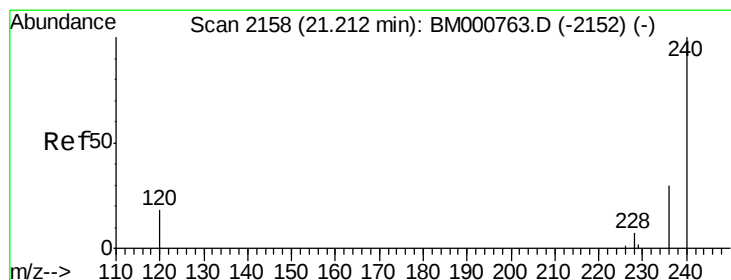
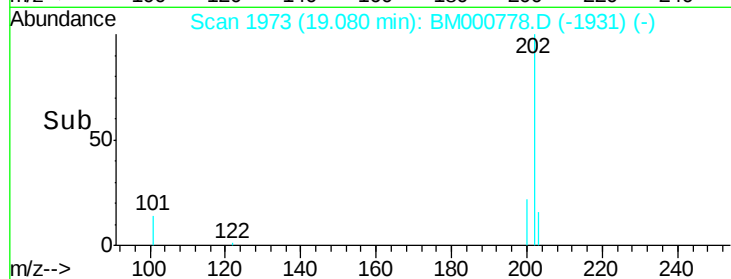
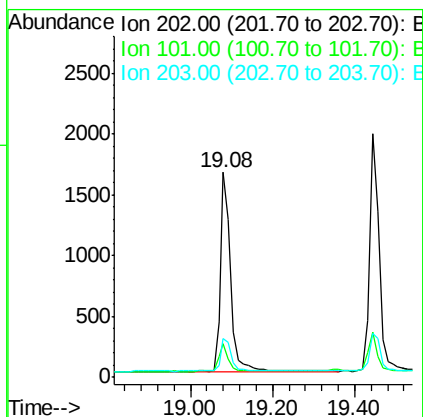
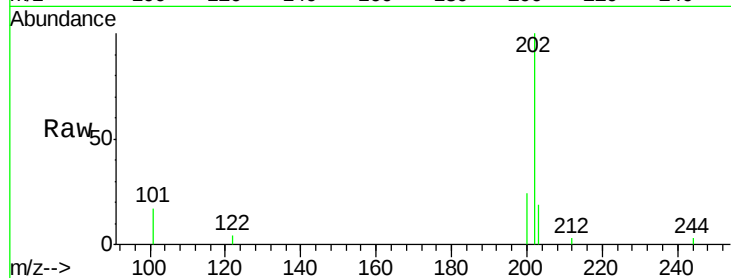




#18
Fluoranthene
Concen: 0.07 ng
RT: 19.08 min Scan# 1973
Delta R.T. 0.00 min
Lab File: BM000778.D
Acq: 01 Apr 2015 07:20

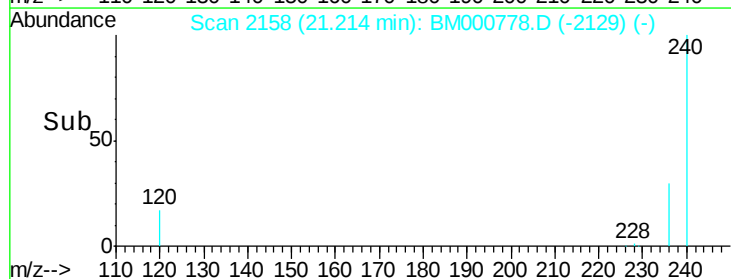
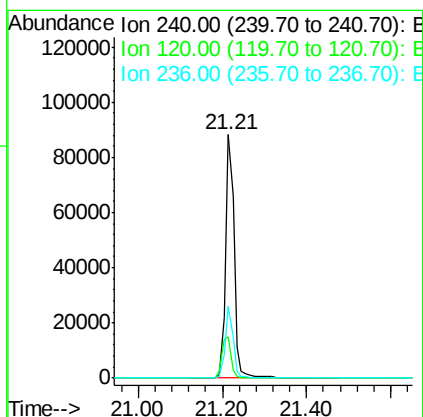
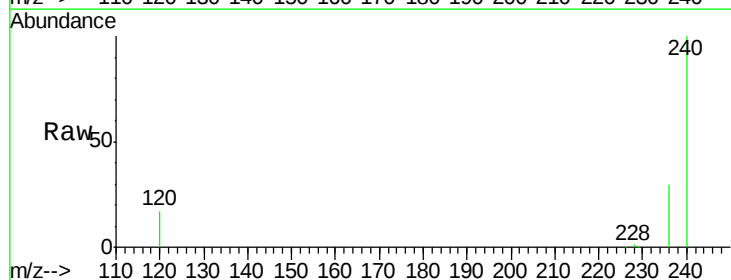
Instrument :
BNA_M
ClientSampleId :
MDL-06-S

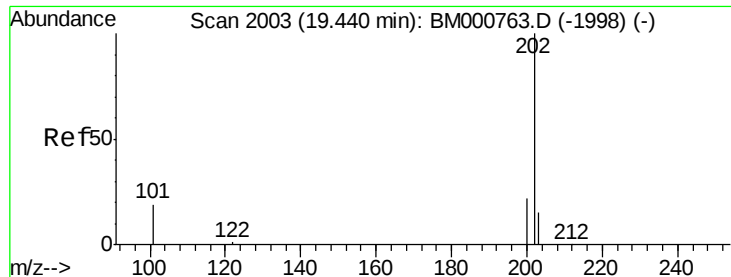
Tgt Ion: 202 Resp: 2936
Ion Ratio Lower Upper
202 100
101 13.1 10.5 15.7
203 18.0 13.8 20.8



#19
Chrysene-d12
Concen: 5.00 ng
RT: 21.21 min Scan# 2158
Delta R.T. 0.00 min
Lab File: BM000778.D
Acq: 01 Apr 2015 07:20

Tgt Ion: 240 Resp: 123931
Ion Ratio Lower Upper
240 100
120 16.9 14.9 22.3
236 29.6 24.2 36.4

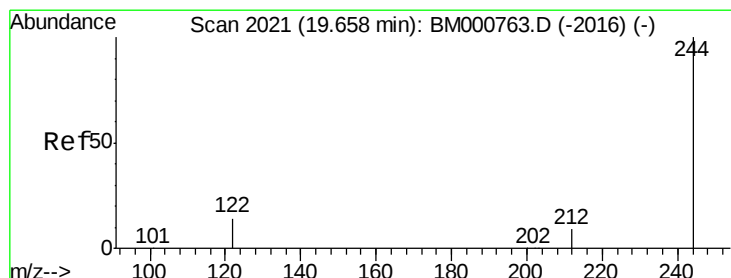
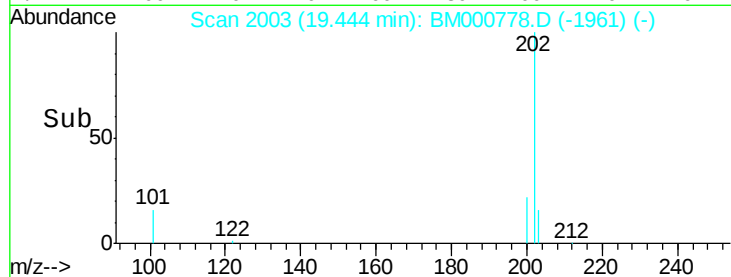
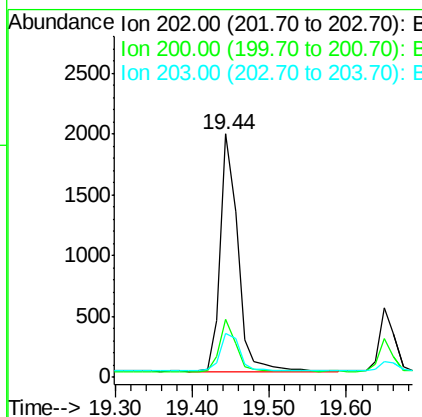
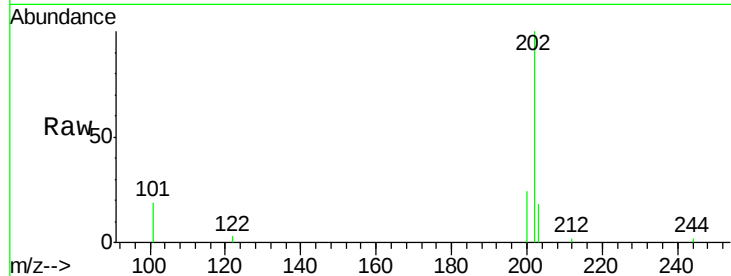




#20
Pyrene
Concen: 0.08 ng
RT: 19.44 min Scan# 2003
Delta R.T. 0.00 min
Lab File: BM000778.D
Acq: 01 Apr 2015 07:20

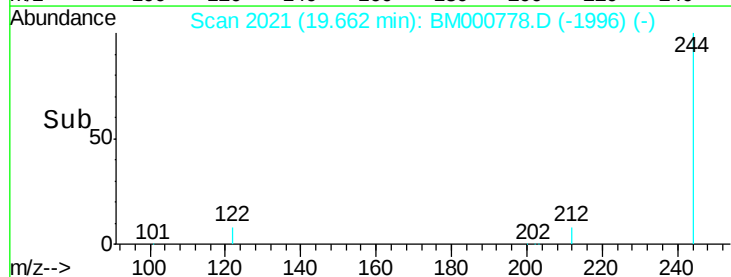
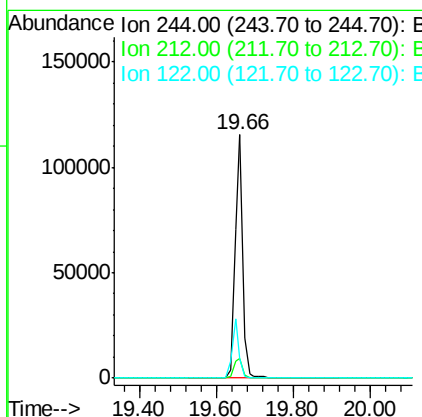
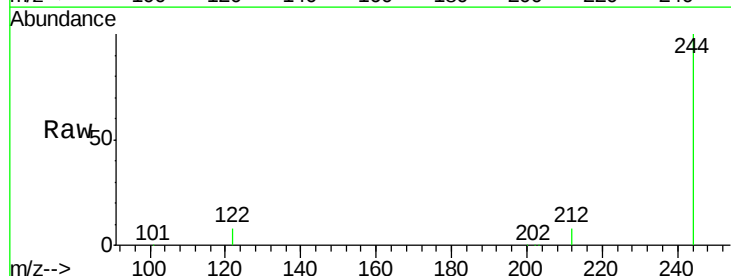
Instrument :
BNA_M
ClientSampled :
MDL-06-S

Tgt Ion:202 Resp: 3059
Ion Ratio Lower Upper
202 100
200 20.6 16.2 24.2
203 17.9 13.9 20.9



#21
Terphenyl-d14
Concen: 10.53 ng
RT: 19.66 min Scan# 2021
Delta R.T. 0.00 min
Lab File: BM000778.D
Acq: 01 Apr 2015 07:20

Tgt Ion:244 Resp: 156958
Ion Ratio Lower Upper
244 100
212 8.3 7.8 11.6
122 7.8 11.8 17.8#





#22

Benzo(a)anthracene

Concen: 0.08 ng

RT: 21.19 min Scan# 2156

Delta R.T. -0.01 min

Lab File: BM000778.D

Acq: 01 Apr 2015 07:20

Instrument :

BNA_M

ClientSampleId :

MDL-06-S

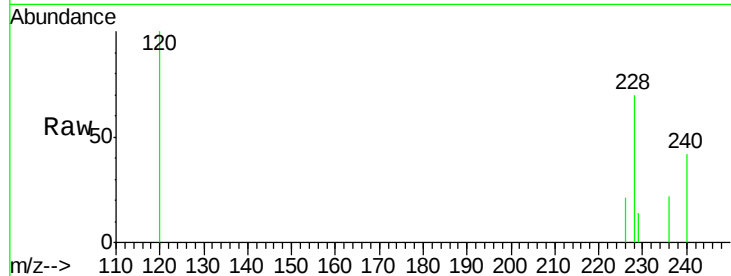
Tgt Ion:228 Resp: 3004

Ion Ratio Lower Upper

228 100

226 30.5 18.6 27.8#

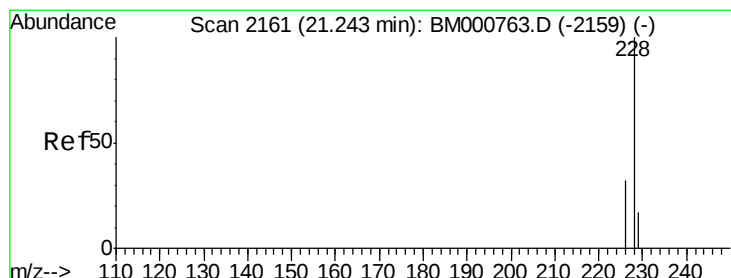
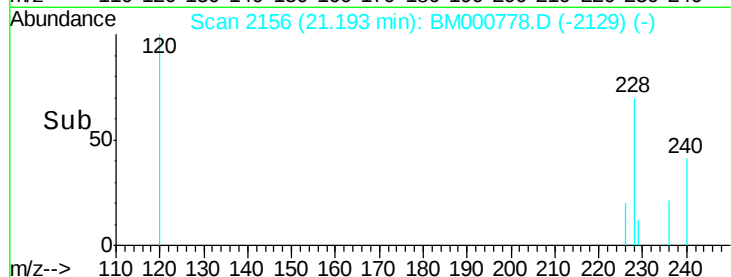
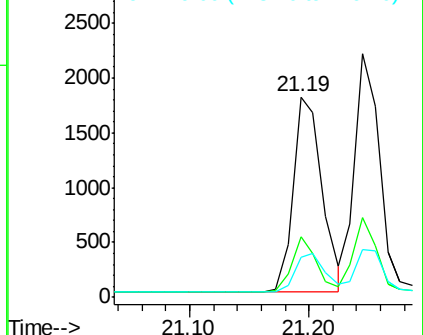
229 19.9 17.2 25.8



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# 2161

Delta R.T. 0.00 min

Lab File: BM000778.D

Acq: 01 Apr 2015 07:20

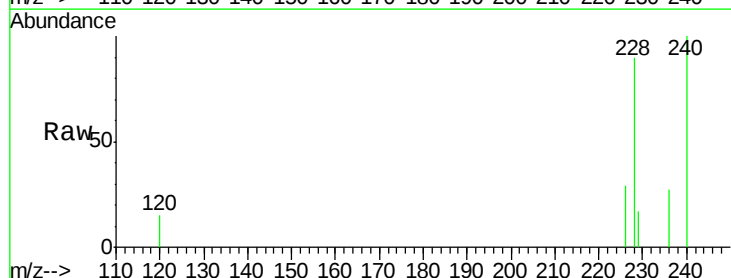
Tgt Ion:228 Resp: 3240

Ion Ratio Lower Upper

228 100

226 32.6 25.8 38.8

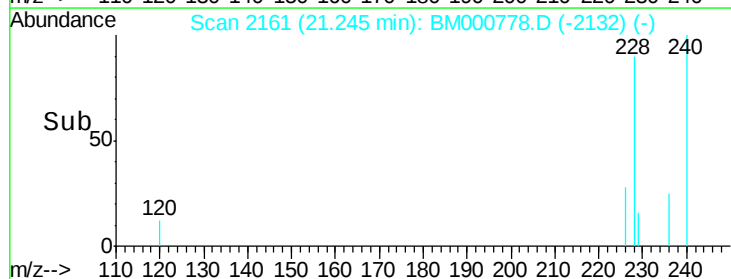
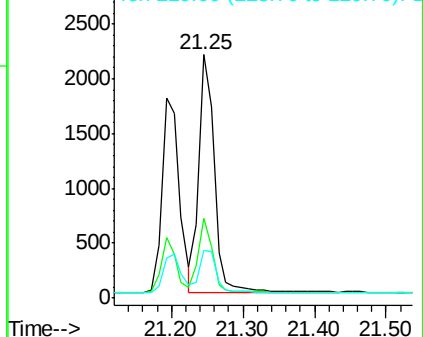
229 19.4 13.8 20.6



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: 0.08 ng

RT: 25.59 min Scan# 2578

Delta R.T. 0.00 min

Lab File: BM000778.D

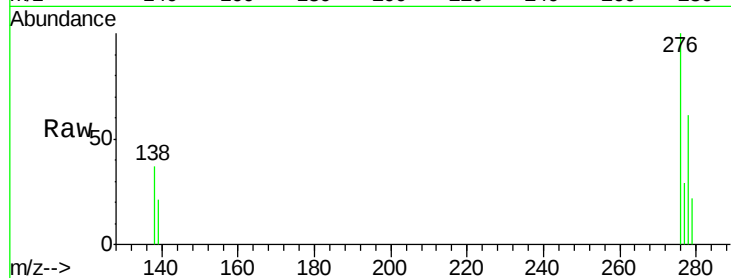
Acq: 01 Apr 2015 07:20

Instrument :

BNA_M

ClientSampleId :

MDL-06-S



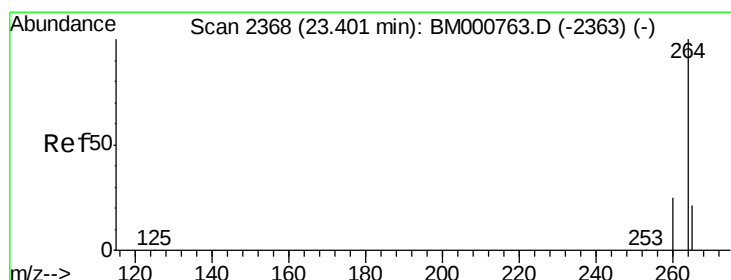
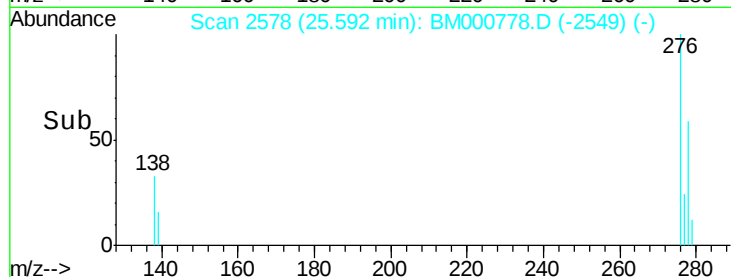
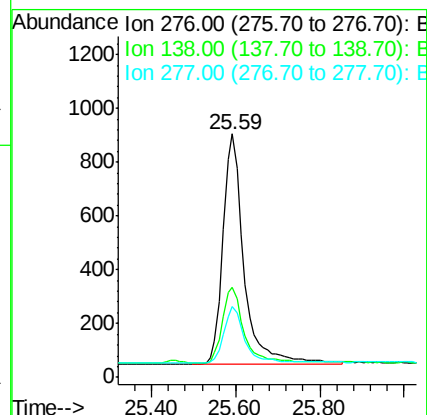
Tgt Ion:276 Resp: 2997

Ion Ratio Lower Upper

276 100

138 34.4 27.4 41.2

277 23.7 19.7 29.5



#25

Perylene-d12

Concen: 5.00 ng

RT: 23.40 min Scan# 2368

Delta R.T. 0.00 min

Lab File: BM000778.D

Acq: 01 Apr 2015 07:20

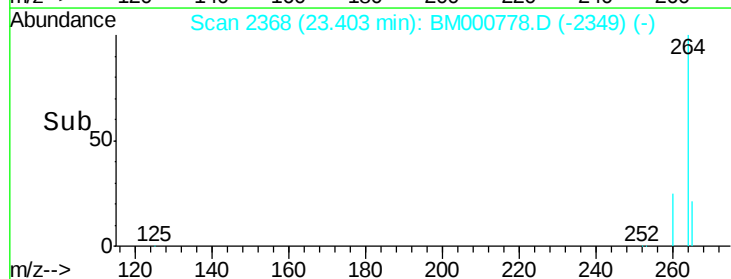
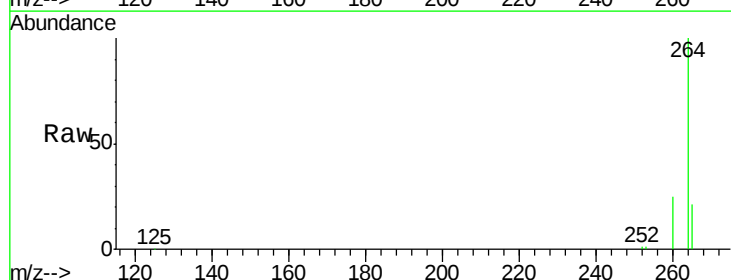
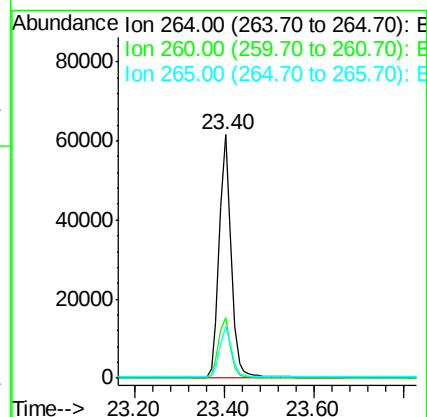
Tgt Ion:264 Resp: 115943

Ion Ratio Lower Upper

264 100

260 24.7 20.1 30.1

265 21.2 17.4 26.0





#26

Benzo(b)fluoranthene

Concen: 0.08 ng

RT: 22.75 min Scan# 2305

Delta R.T. 0.00 min

Lab File: BM000778.D

Acq: 01 Apr 2015 07:20

Instrument :

BNA_M

ClientSampleId :

MDL-06-S

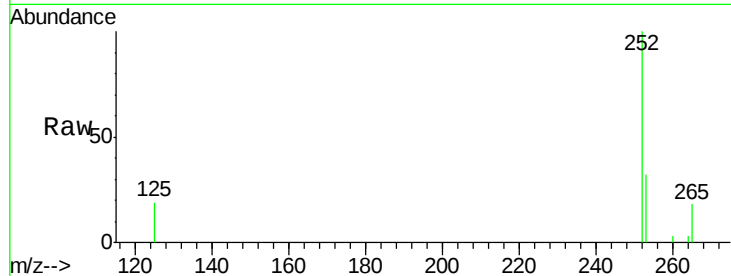
Tgt Ion:252 Resp: 2761

Ion Ratio Lower Upper

252 100

253 32.3 18.5 27.7#

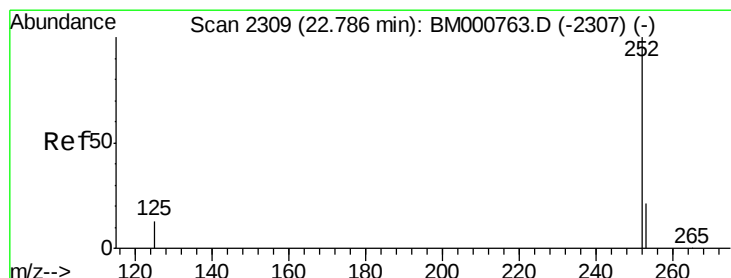
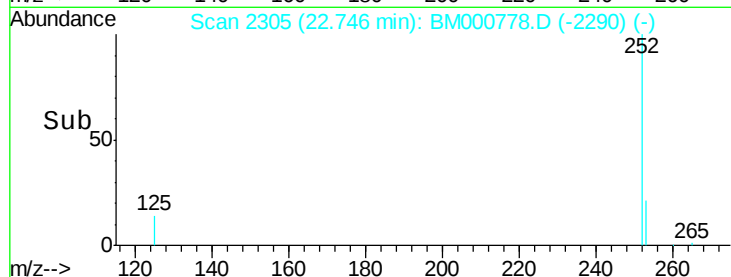
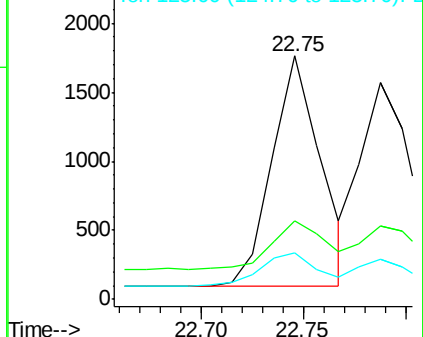
125 18.9 10.6 16.0#



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



#27

Benzo(k)fluoranthene

Concen: 0.08 ng

RT: 22.79 min Scan# 2309

Delta R.T. 0.00 min

Lab File: BM000778.D

Acq: 01 Apr 2015 07:20

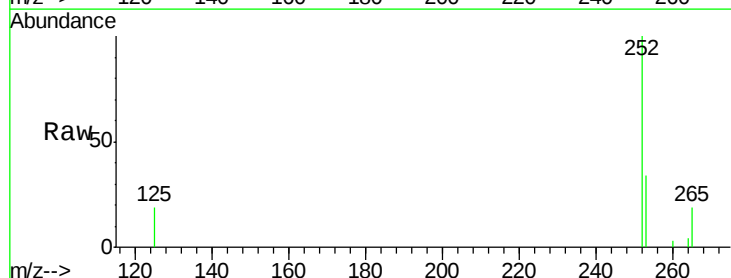
Tgt Ion:252 Resp: 2868

Ion Ratio Lower Upper

252 100

253 33.5 17.9 26.9#

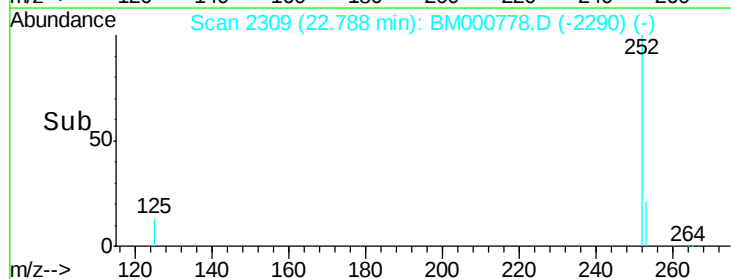
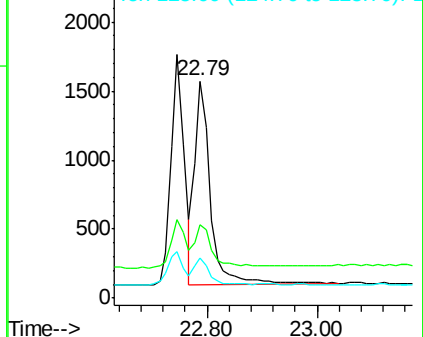
125 18.5 10.8 16.2#



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: 0.08 ng

RT: 23.30 min Scan# 2358

Delta R.T. -0.01 min

Lab File: BM000778.D

Acq: 01 Apr 2015 07:20

Instrument :

BNA_M

ClientSampleId :

MDL-06-S

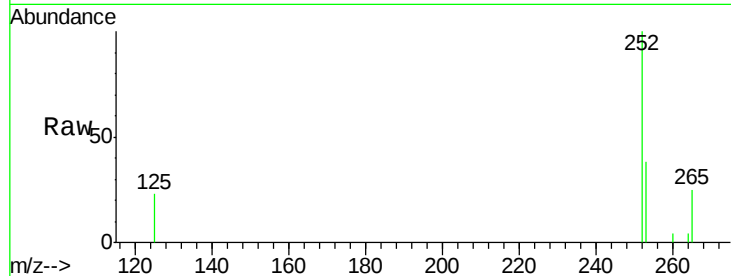
Tgt Ion:252 Resp: 2452

Ion Ratio Lower Upper

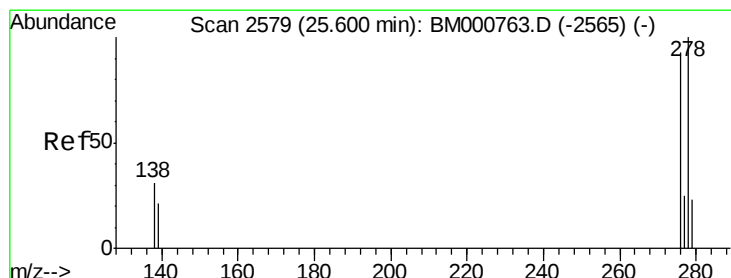
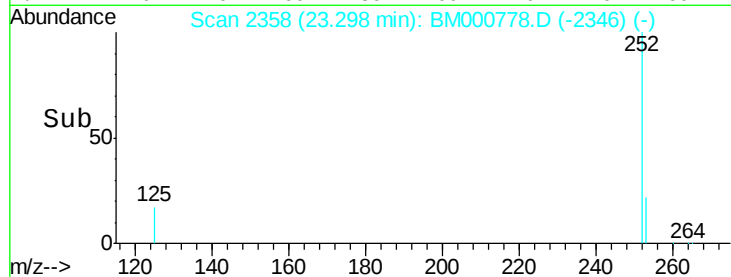
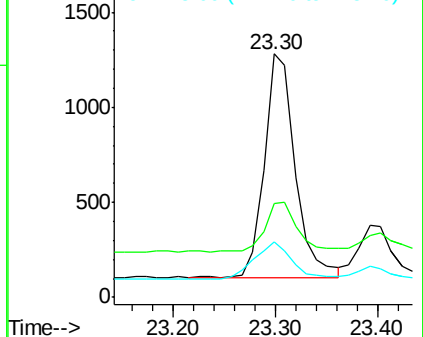
252 100

253 38.3 19.4 29.2#

125 23.0 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: 0.08 ng

RT: 25.60 min Scan# 2579

Delta R.T. 0.00 min

Lab File: BM000778.D

Acq: 01 Apr 2015 07:20

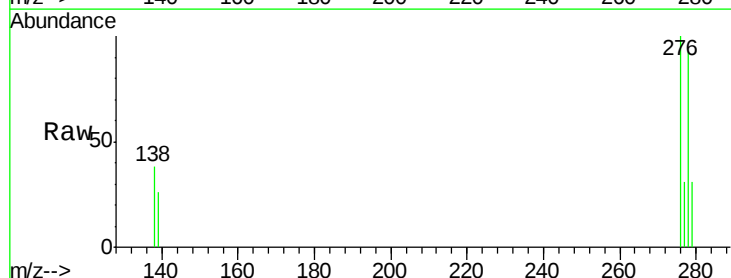
Tgt Ion:278 Resp: 2371

Ion Ratio Lower Upper

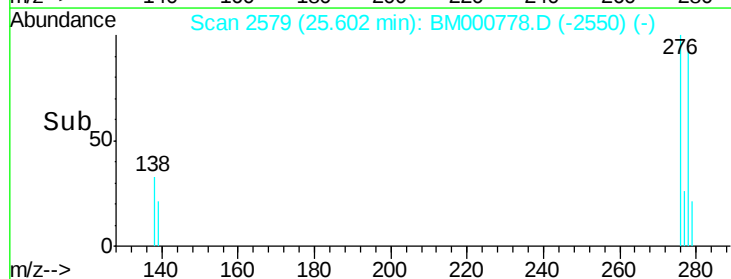
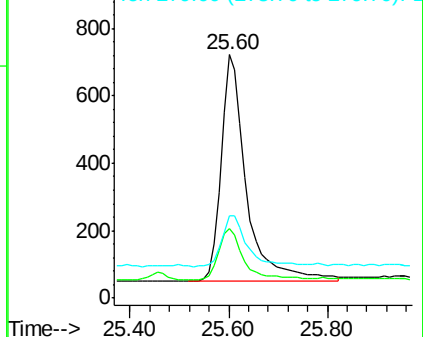
278 100

139 28.5 17.8 26.6#

279 33.8 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: BM000778.D

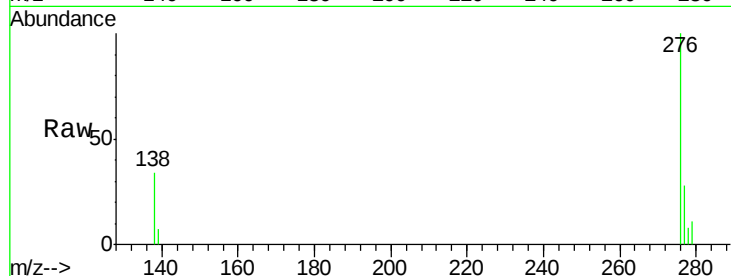
Acq: 01 Apr 2015 07:20

Instrument :

BNA_M

ClientSampleId :

MDL-06-S



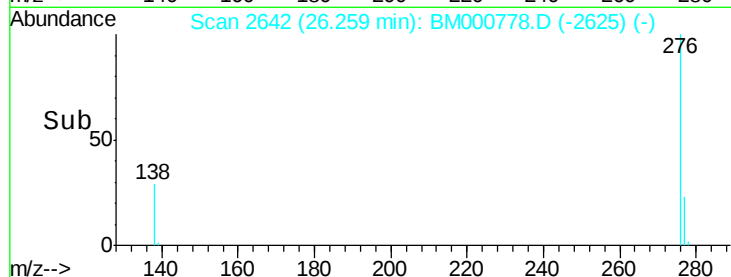
Tgt Ion: 276 Resp: 2726

Ion Ratio Lower Upper

276 100

277 27.8 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

