

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM041715\
 Data File : BM001029.D
 Acq On : 17 Apr 2015 12:02
 Operator : TP/IZ
 Sample : SSTD0.133
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 SSTD0.133

Quant Time: Apr 20 08:49:12 2015
 Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SIMPAH-BM041815.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Apr 20 05:07:15 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.59	152	1363	5.00	ng	0.00
4) Naphthalene-d8	10.36	136	4914	5.00	ng	0.00
8) Acenaphthene-d10	14.24	164	2653	5.00	ng	0.00
13) Phenanthrene-d10	16.98	188	5803	5.00	ng	0.00
19) Chrysene-d12	21.19	240	4897	5.00	ng	0.00
25) Perylene-d12	23.36	264	4463	5.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units
5) Nitrobenzene-d5	0.00	82	0	0.00	ng
9) 2-Fluorobiphenyl	0.00	172	0	0.00	ng
21) Terphenyl-d14	0.00	244	0	0.00	ng

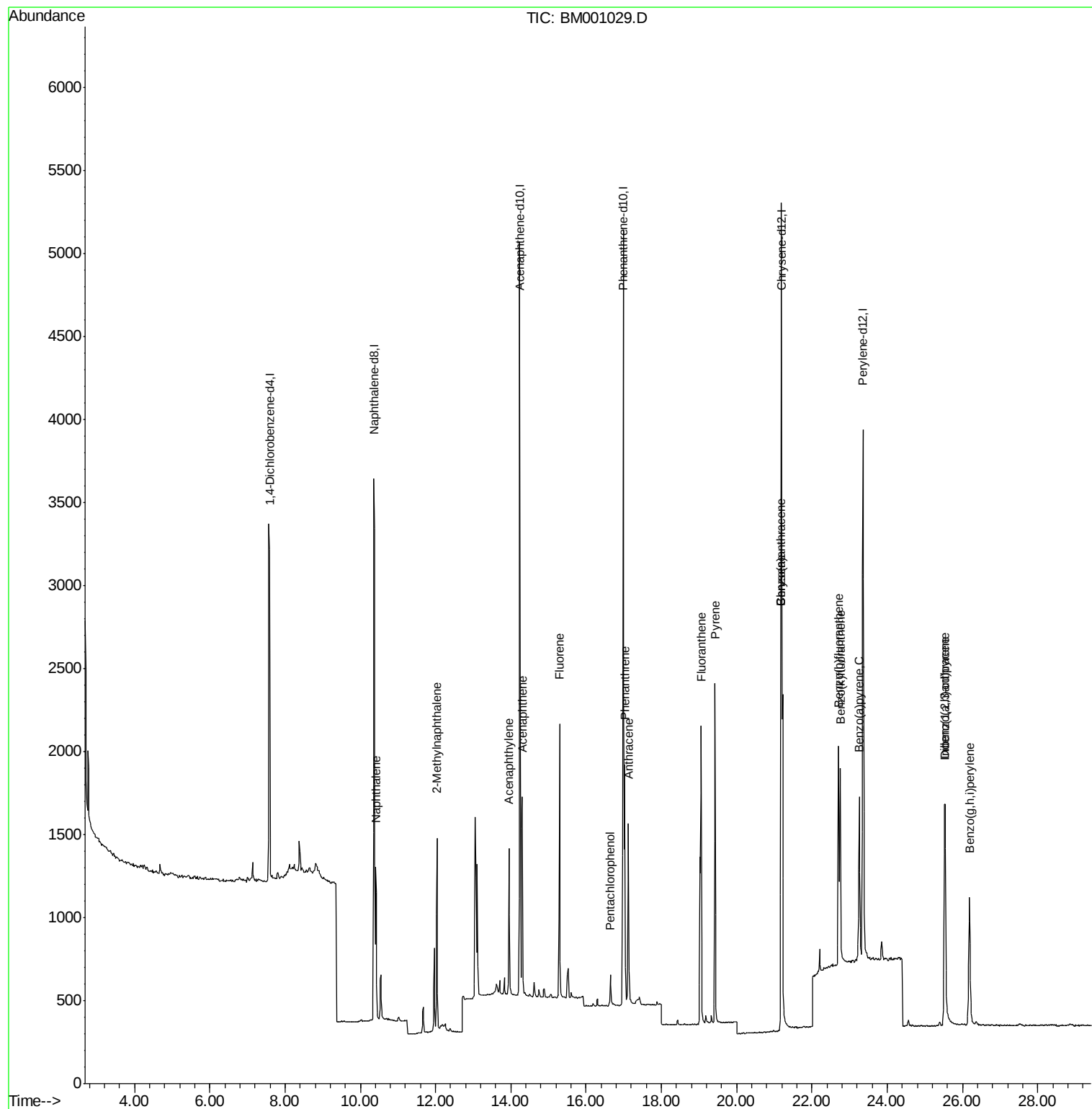
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) Naphthalene	10.41	128	1298	1.10	ng	# 86
7) 2-Methylnaphthalene	12.03	142	872	1.12	ng	# 91
10) Acenaphthylene	13.94	152	1194	0.98	ng	97
11) Acenaphthene	14.30	154	856	1.03	ng	98
12) Fluorene	15.30	166	1105	1.14	ng	98
15) Pentachlorophenol	16.64	266	160	1.52	ng	# 87
16) Phenanthrene	17.03	178	1721	1.00	ng	99
17) Anthracene	17.12	178	1550	1.14	ng	98
18) Fluoranthene	19.06	202	1871	1.22	ng	99
20) Pyrene	19.42	202	1938	1.05	ng	99
22) Benzo(a)anthracene	21.17	228	1608	1.00	ng	94
23) Chrysene	21.17	228	1608	0.97	ng	97
24) Indeno(1,2,3-cd)pyrene	25.53	276	1733	1.00	ng	99
26) Benzo(b)fluoranthene	22.71	252	1827	1.09	ng	# 68
27) Benzo(k)fluoranthene	22.75	252	1529	0.97	ng	# 71
28) Benzo(a)pyrene	23.27	252	1555	1.07	ng	# 65
29) Dibenzo(a,h)anthracene	25.54	278	1406	1.00	ng	# 77
30) Benzo(g,h,i)perylene	26.18	276	1553	1.03	ng	# 87

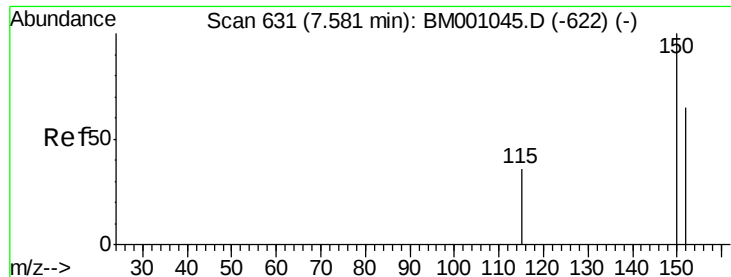
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.59 min Scan# 318

Delta R.T. 0.01 min

Lab File: BM001029.D

Acq: 17 Apr 2015 12:02

Instrument :

BNA_M

ClientSampleId :

SSTD0.133

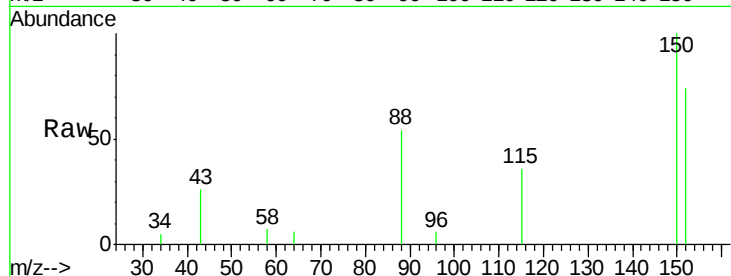
Tgt Ion:152 Resp: 1363

Ion Ratio Lower Upper

152 100

150 134.7 123.3 184.9

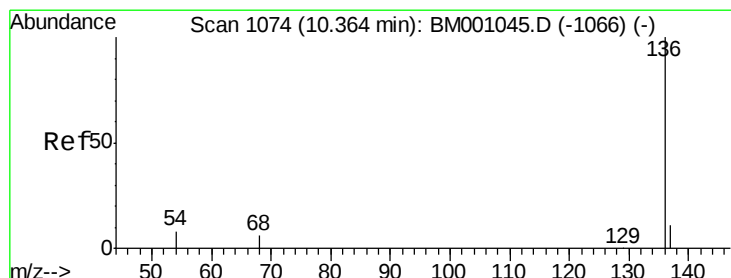
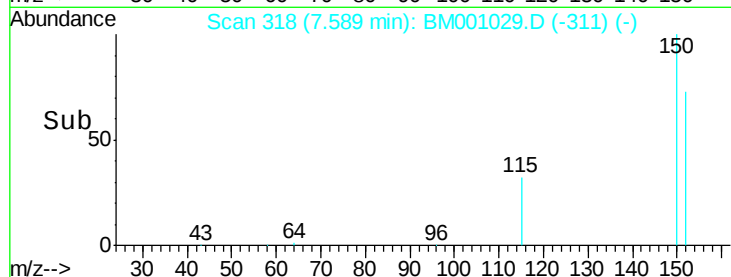
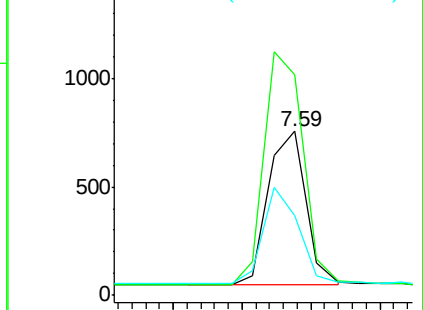
115 48.3 45.0 67.6



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



#4

Naphthalene-d8

Concen: 5.00 ng

RT: 10.36 min Scan# 515

Delta R.T. -0.00 min

Lab File: BM001029.D

Acq: 17 Apr 2015 12:02

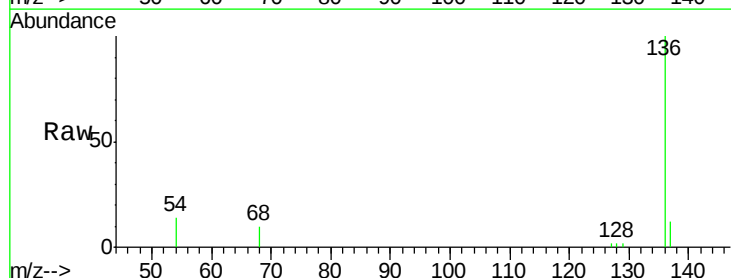
Tgt Ion:136 Resp: 4914

Ion Ratio Lower Upper

136 100

137 11.8 8.6 13.0

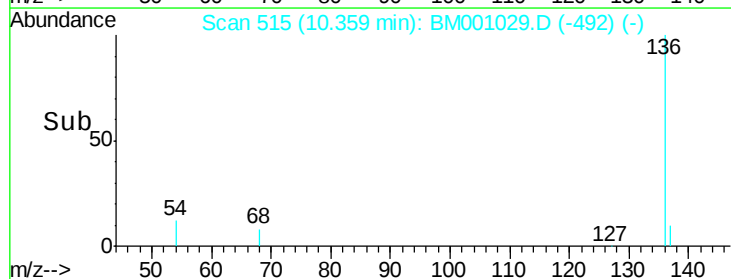
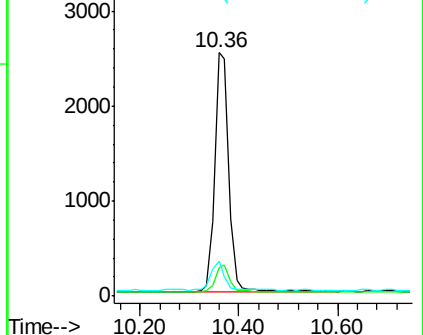
54 14.5 6.5 9.7#

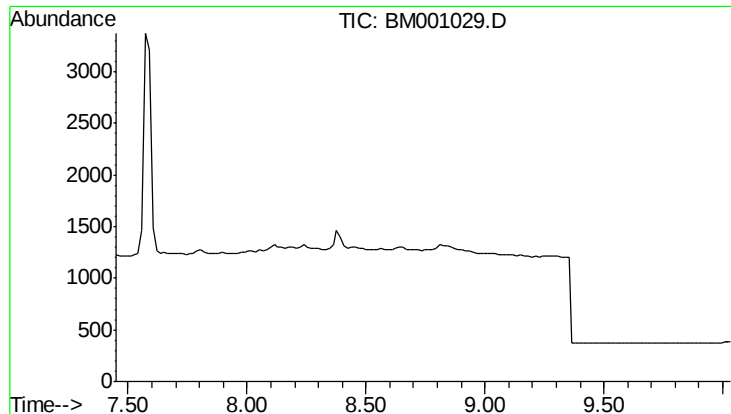


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BM





#5

Nitrobenzene-d5

Concen: 0.00 ng

Expected RT: 8.74 min

Lab File: BM001029.D

Acq: 17 Apr 2015 12:02

Instrument :

BNA_M

ClientSampleId :

SSTD0.133

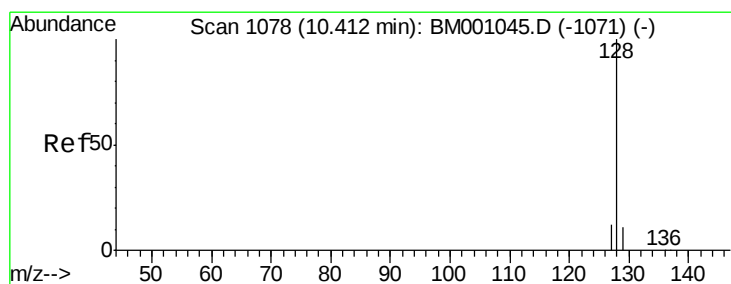
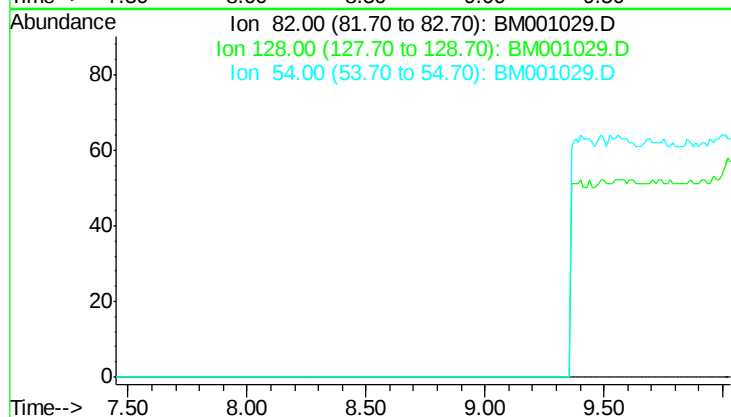
Tgt Ion: 82

Sig Exp Ratio

82 100

128 39.9

54 64.1



#6

Naphthalene

Concen: 1.10 ng

RT: 10.41 min Scan# 519

Delta R.T. -0.00 min

Lab File: BM001029.D

Acq: 17 Apr 2015 12:02

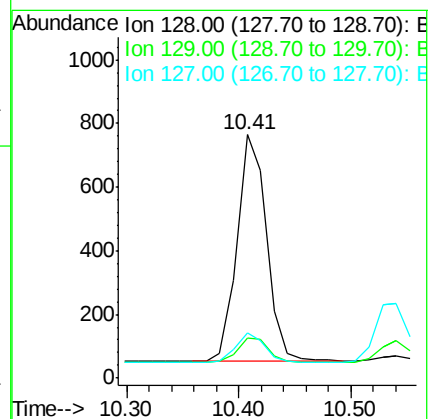
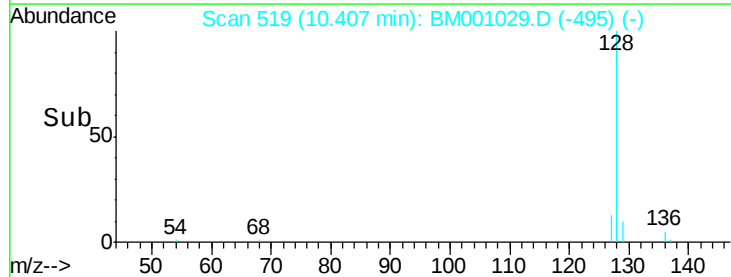
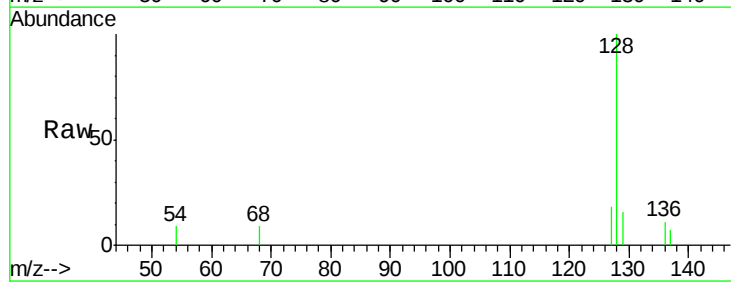
Tgt Ion: 128 Resp: 1298

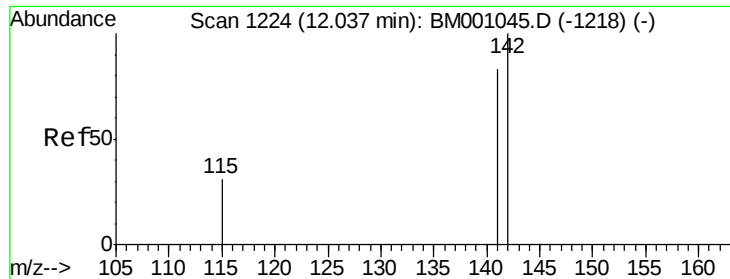
Ion Ratio Lower Upper

128 100

129 16.2 9.3 13.9#

127 18.4 10.0 15.0#





#7

2-Methylnaphthalene

Concen: 1.12 ng

RT: 12.03 min Scan# 664

Delta R.T. -0.00 min

Lab File: BM001029.D

Acq: 17 Apr 2015 12:02

Instrument :

BNA_M

ClientSampleId :

SSTD0.133

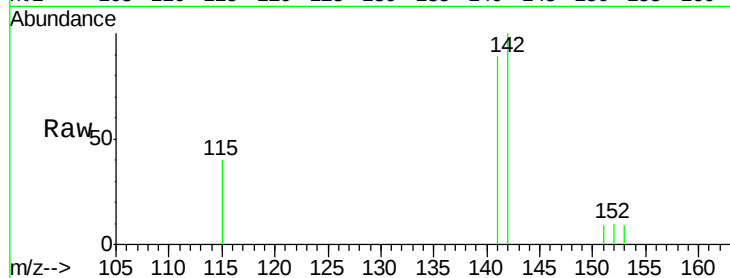
Tgt Ion:142 Resp: 872

Ion Ratio Lower Upper

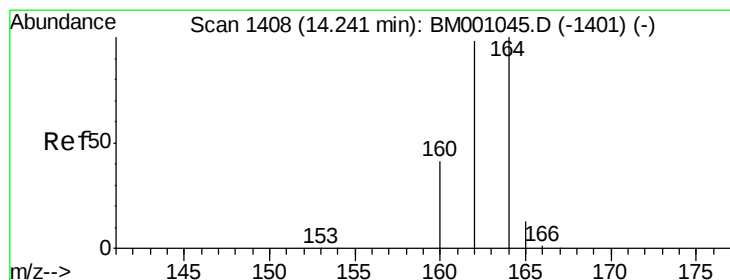
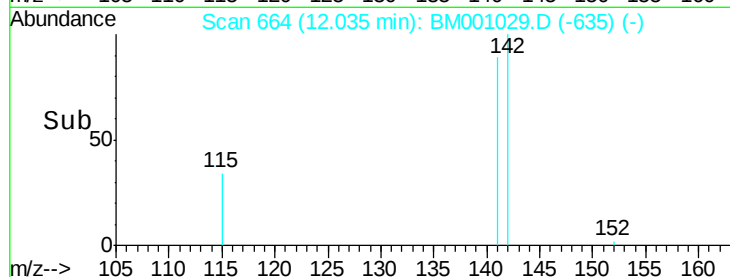
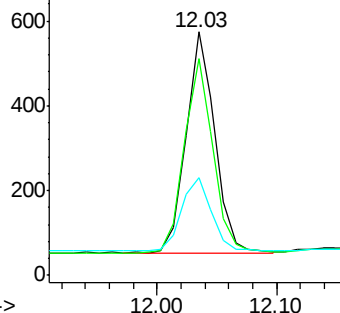
142 100

141 89.2 66.7 100.1

115 40.4 25.5 38.3#



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: 14.24 min Scan# 818

Delta R.T. -0.01 min

Lab File: BM001029.D

Acq: 17 Apr 2015 12:02

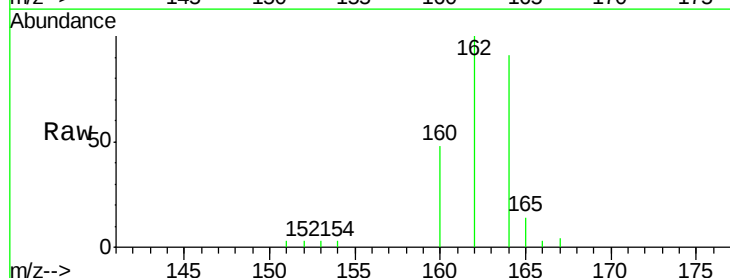
Tgt Ion:164 Resp: 2653

Ion Ratio Lower Upper

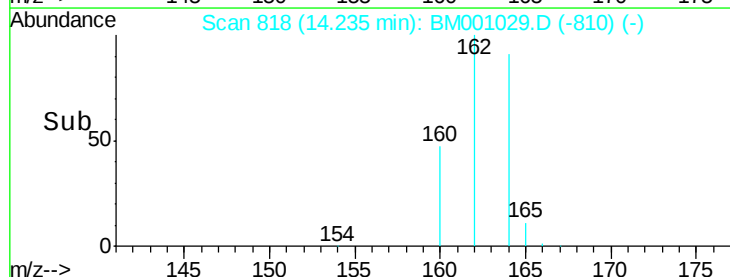
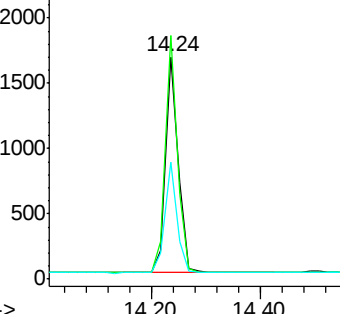
164 100

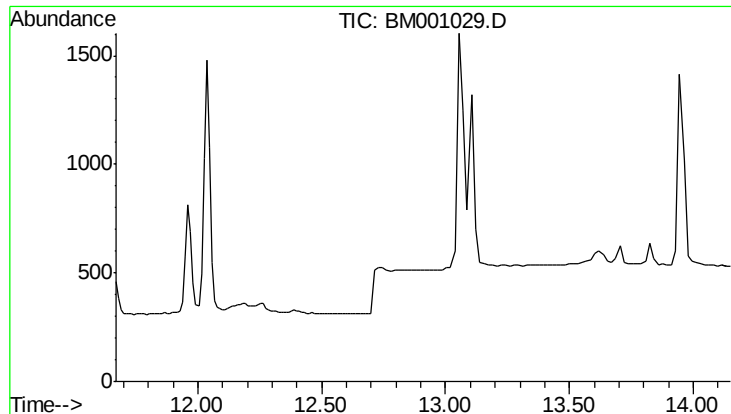
162 109.8 78.5 117.7

160 52.6 32.9 49.3#



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: 0.00 ng

Expected RT: 12.86 min

Lab File: BM001029.D

Acq: 17 Apr 2015 12:02

Instrument :

BNA_M

ClientSampleId :

SSTD0.133

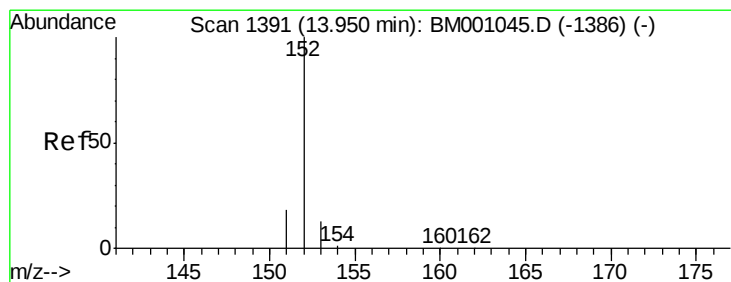
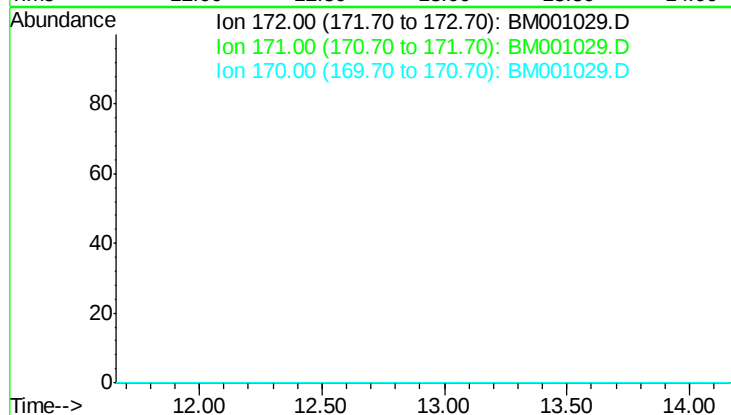
Tgt Ion: 172

Sig Exp Ratio

172 100

171 32.0

170 19.7



#10

Acenaphthylene

Concen: 0.98 ng

RT: 13.94 min Scan# 801

Delta R.T. -0.01 min

Lab File: BM001029.D

Acq: 17 Apr 2015 12:02

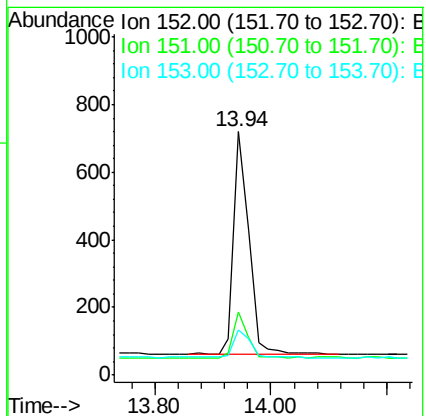
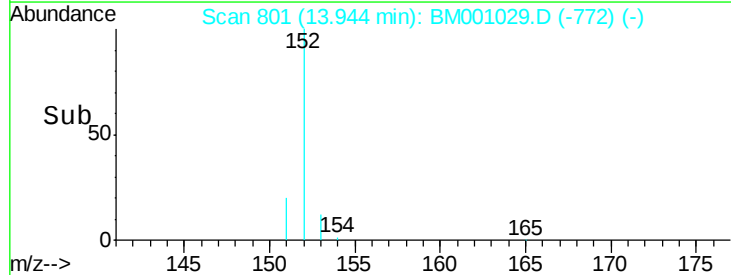
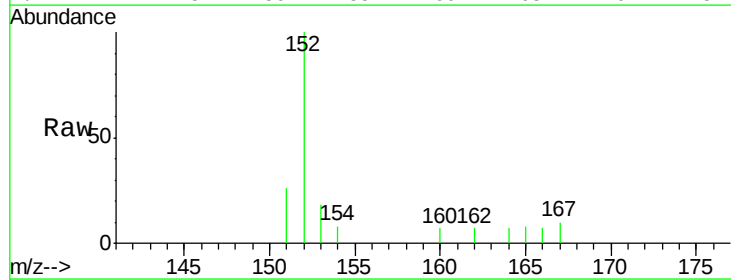
Tgt Ion: 152 Resp: 1194

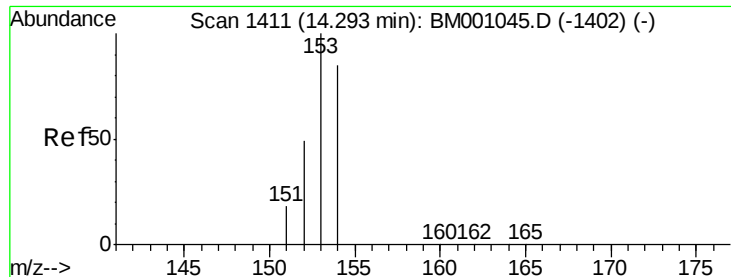
Ion Ratio Lower Upper

152 100

151 19.1 14.7 22.1

153 14.5 10.2 15.2





#11

Acenaphthene

Concen: 1.03 ng

RT: 14.30 min Scan# 822

Delta R.T. 0.01 min

Lab File: BM001029.D

Acq: 17 Apr 2015 12:02

Instrument :

BNA_M

ClientSampleId :

SSTD0.133

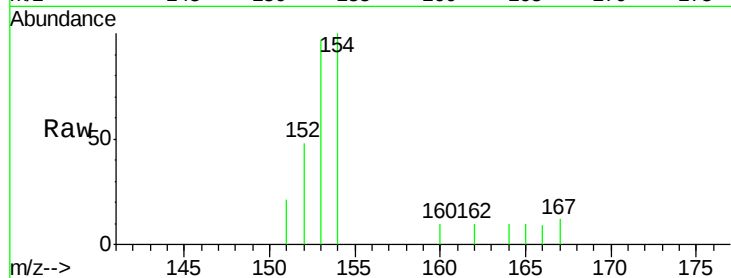
Tgt Ion:154 Resp: 856

Ion Ratio Lower Upper

154 100

153 109.2 88.1 132.1

152 56.4 42.3 63.5



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

600

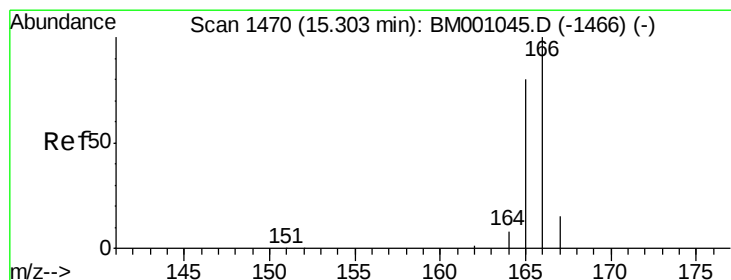
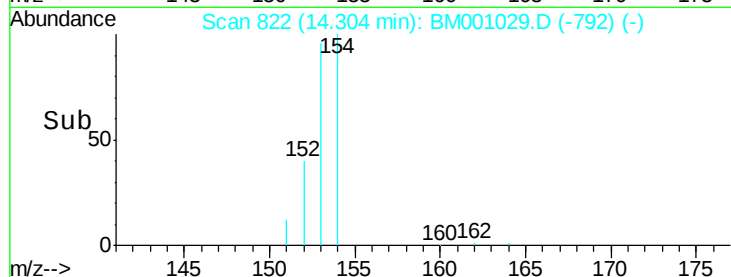
400

200

0

14.30

Time--> 14.10 14.20 14.30 14.40



#12

Fluorene

Concen: 1.14 ng

RT: 15.30 min Scan# 880

Delta R.T. -0.01 min

Lab File: BM001029.D

Acq: 17 Apr 2015 12:02

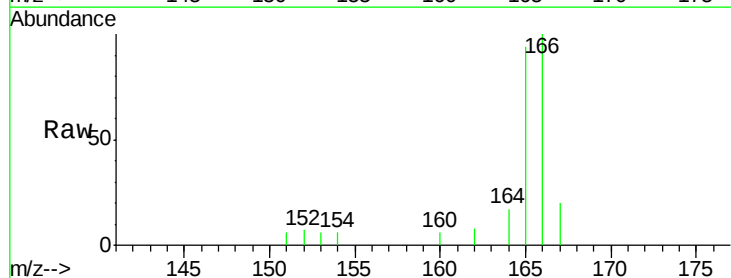
Tgt Ion:166 Resp: 1105

Ion Ratio Lower Upper

166 100

165 95.1 77.6 116.4

167 14.1 10.6 16.0



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

1000

800

600

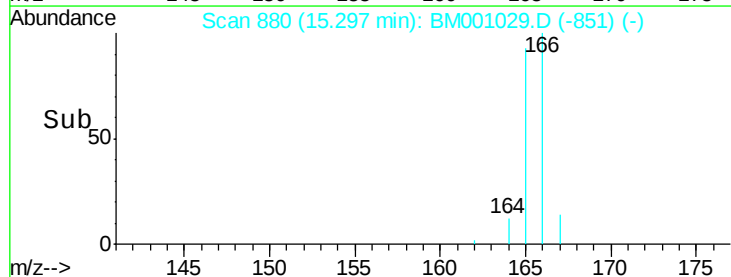
400

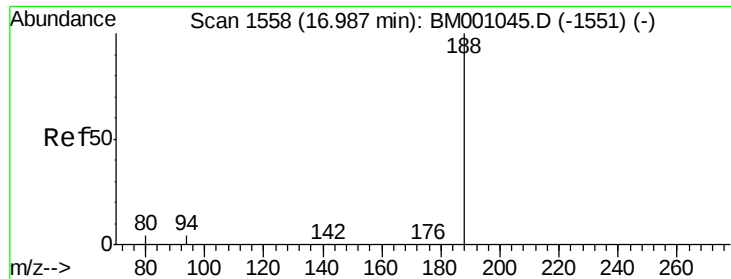
200

0

15.30

Time--> 15.20 15.40





#13

Phenanthrene-d10

Concen: 5.00 ng

RT: 16.98 min Scan# 985

Delta R.T. -0.00 min

Lab File: BM001029.D

Acq: 17 Apr 2015 12:02

Instrument :

BNA_M

ClientSampleId :

SSTD0.133

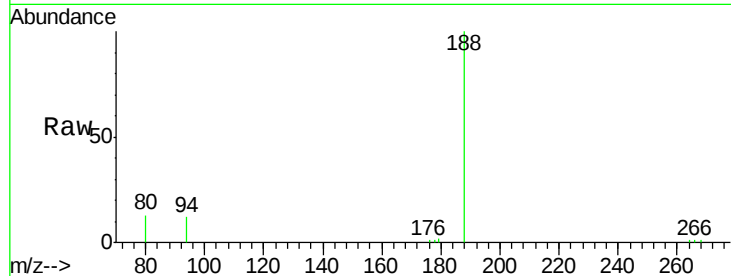
Tgt Ion:188 Resp: 5803

Ion Ratio Lower Upper

188 100

94 12.2 3.6 5.4#

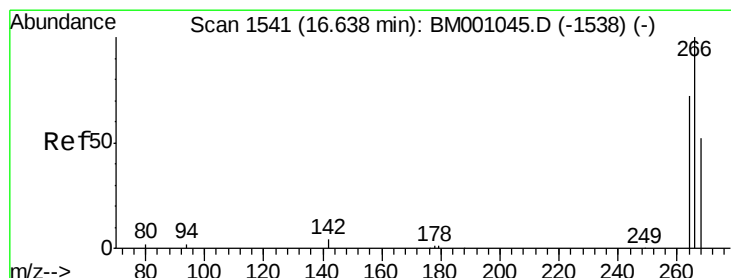
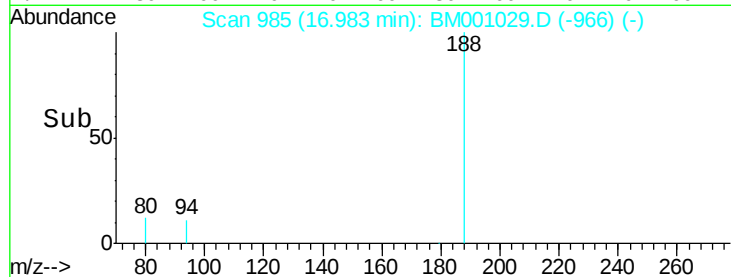
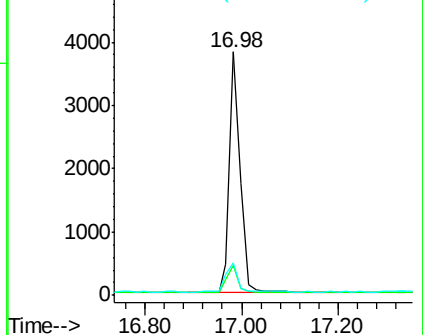
80 13.1 3.0 4.6#



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



#15

Pentachlorophenol

Concen: 1.52 ng

RT: 16.64 min Scan# 963

Delta R.T. 0.01 min

Lab File: BM001029.D

Acq: 17 Apr 2015 12:02

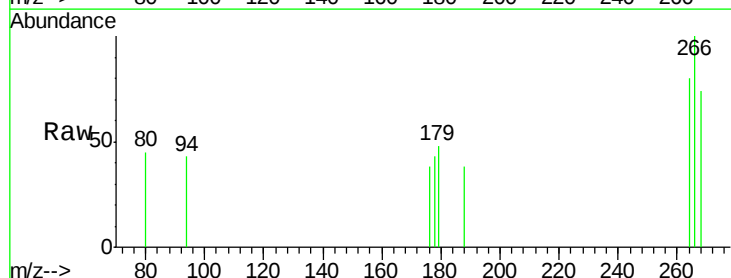
Tgt Ion:266 Resp: 160

Ion Ratio Lower Upper

266 100

268 74.2 46.3 69.5#

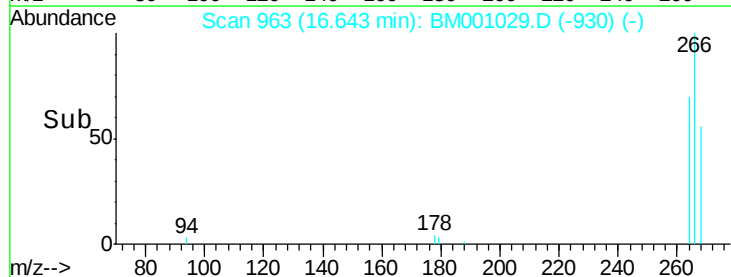
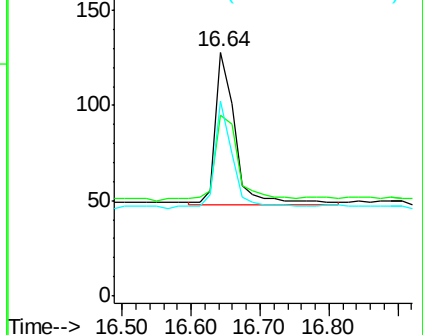
264 79.7 59.8 89.6

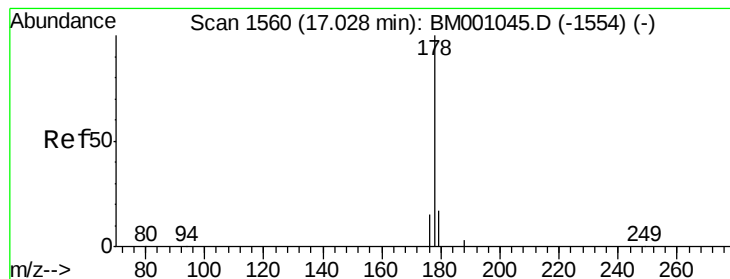


Abundance Ion 265.70 (265.40 to 266.40): E

Ion 268.00 (267.70 to 268.70): E

Ion 264.00 (263.70 to 264.70): E





#16

Phenanthrene

Concen: 1.00 ng

RT: 17.03 min Scan# 988

Delta R.T. 0.00 min

Lab File: BM001029.D

Acq: 17 Apr 2015 12:02

Instrument :

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ClientSampleId :

SSTD0.133

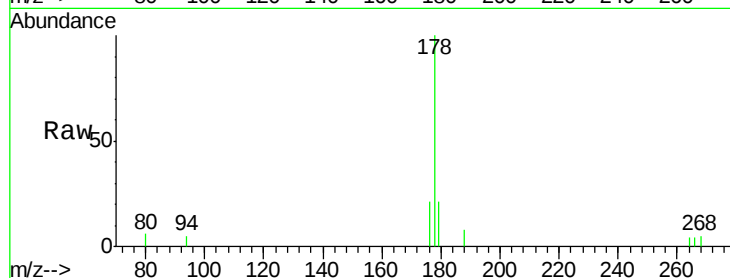
Tgt Ion:178 Resp: 1721

Ion Ratio Lower Upper

178 100

176 18.4 14.6 22.0

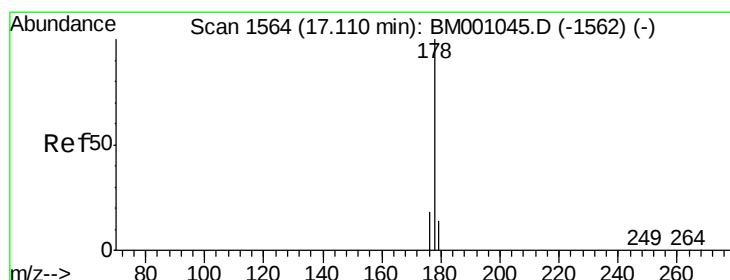
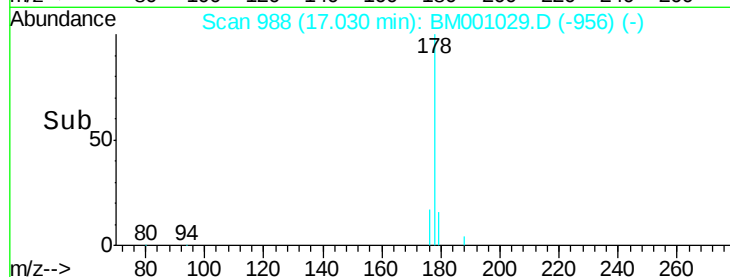
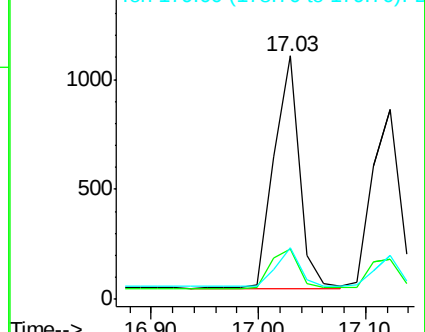
179 16.3 12.6 19.0



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: 1.14 ng

RT: 17.12 min Scan# 994

Delta R.T. 0.01 min

Lab File: BM001029.D

Acq: 17 Apr 2015 12:02

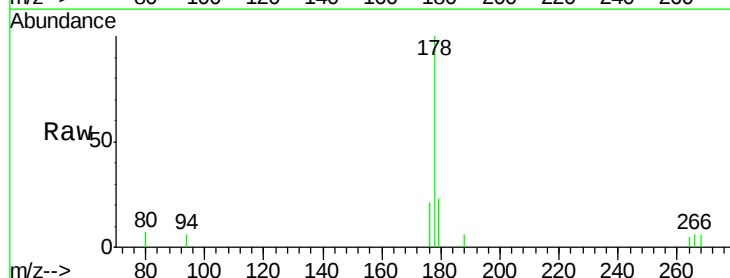
Tgt Ion:178 Resp: 1550

Ion Ratio Lower Upper

178 100

176 18.2 14.3 21.5

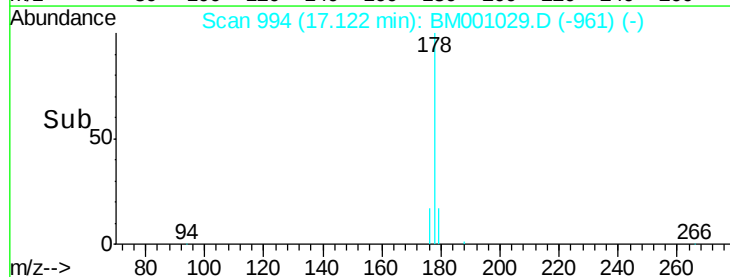
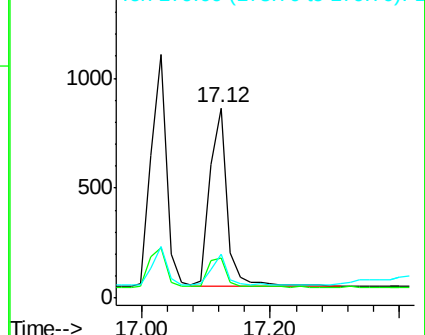
179 16.3 11.8 17.8

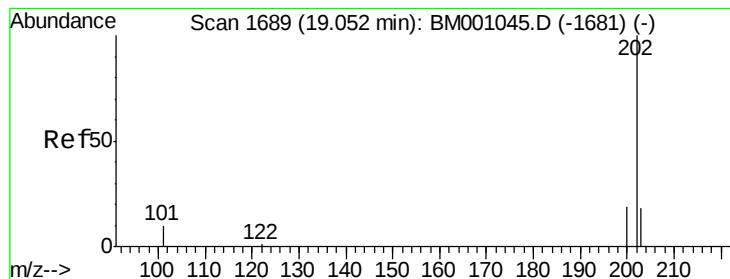


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#18

Fluoranthene

Concen: 1.22 ng

RT: 19.06 min Scan# 1138

Delta R.T. 0.01 min

Lab File: BM001029.D

Acq: 17 Apr 2015 12:02

Instrument :

BNA_M

ClientSampleId :

SSTD0.133

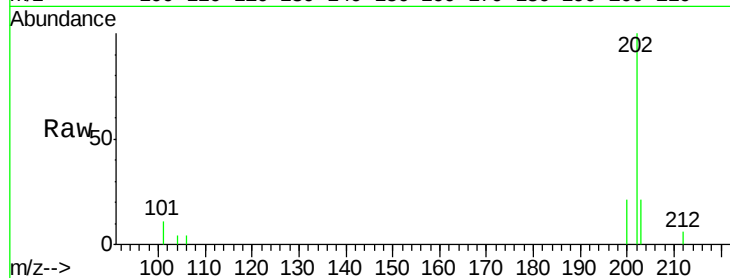
Tgt Ion:202 Resp: 1871

Ion Ratio Lower Upper

202 100

101 13.2 10.1 15.1

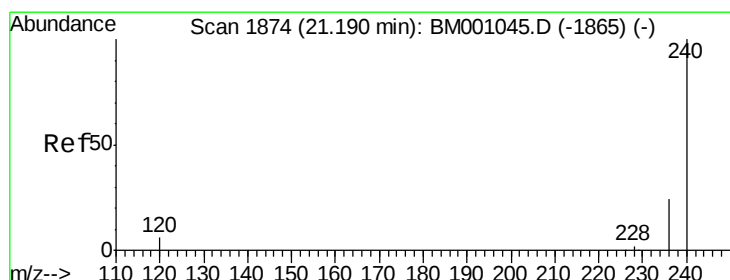
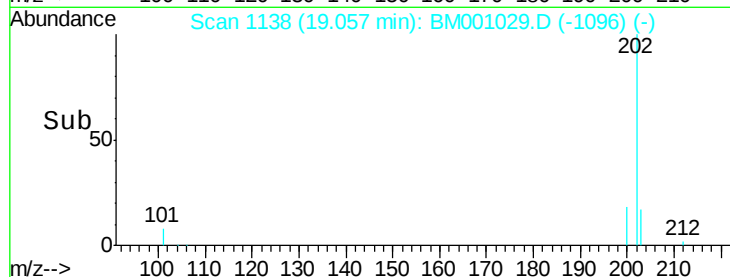
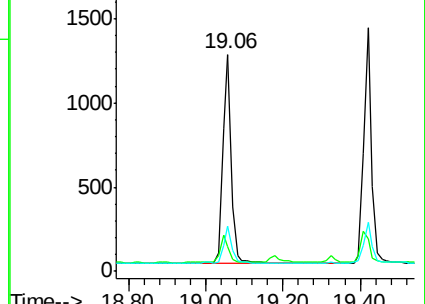
203 17.1 13.8 20.8



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#19

Chrysene-d12

Concen: 5.00 ng

RT: 21.19 min Scan# 1330

Delta R.T. 0.00 min

Lab File: BM001029.D

Acq: 17 Apr 2015 12:02

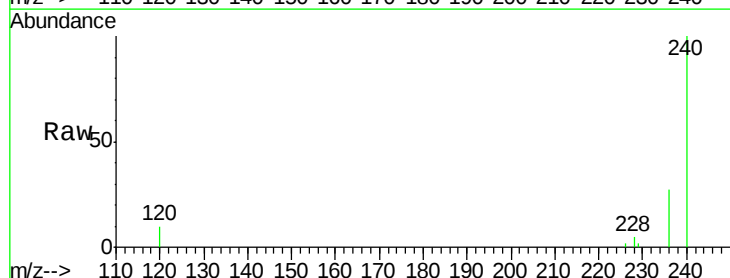
Tgt Ion:240 Resp: 4897

Ion Ratio Lower Upper

240 100

120 10.1 4.6 6.8#

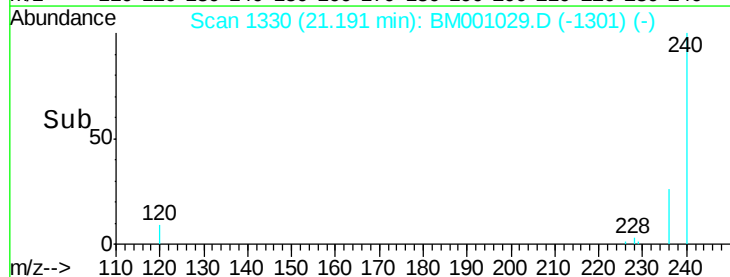
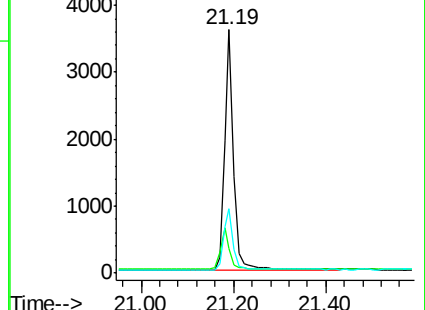
236 26.7 19.1 28.7

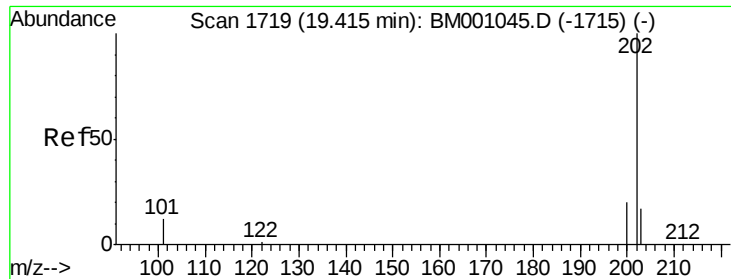


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

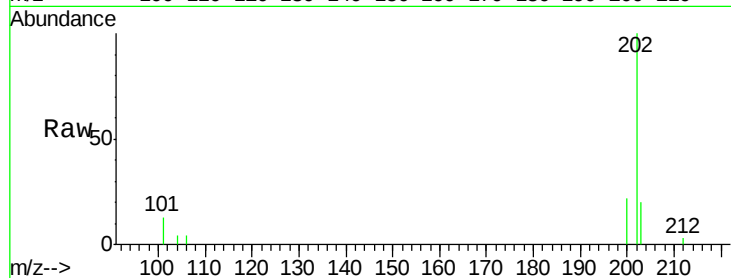




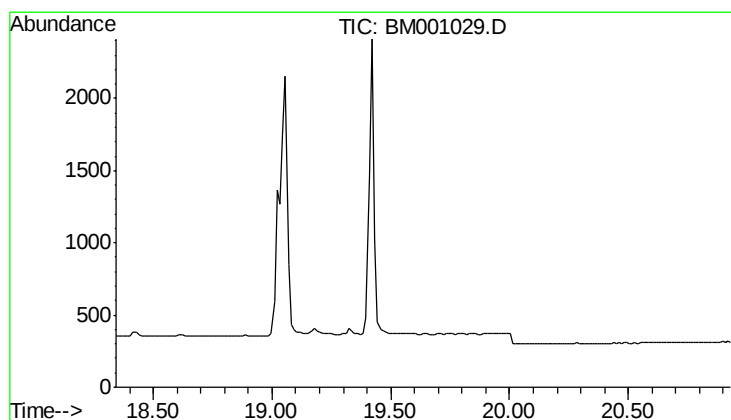
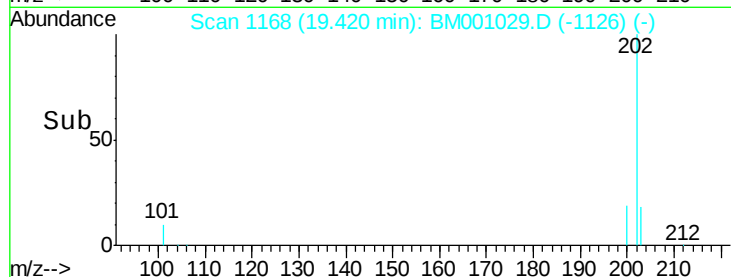
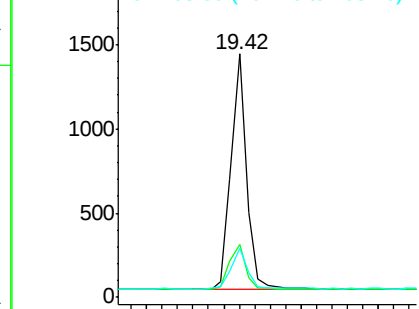
#20
Pyrene
Concen: 1.05 ng
RT: 19.42 min Scan# 1168
Delta R.T. 0.01 min
Lab File: BM001029.D
Acq: 17 Apr 2015 12:02

Instrument :
BNA_M
ClientSampleId :
SSTD0.133

Tgt Ion: 202 Resp: 1938
Ion Ratio Lower Upper
202 100
200 20.3 16.3 24.5
203 18.4 13.8 20.6



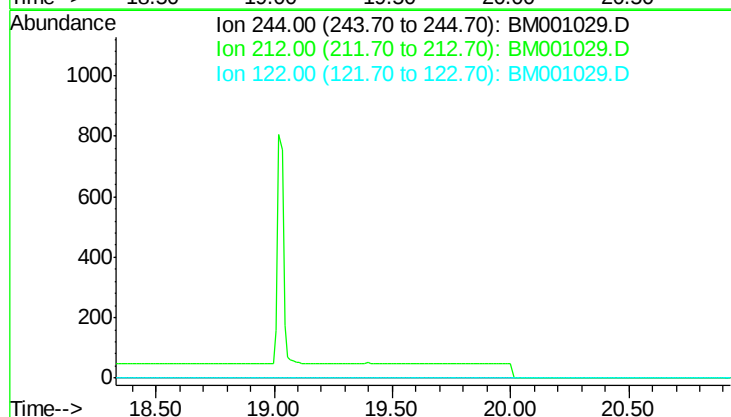
Abundance Ion 202.00 (201.70 to 202.70): E
Ion 200.00 (199.70 to 200.70): E
Ion 203.00 (202.70 to 203.70): E

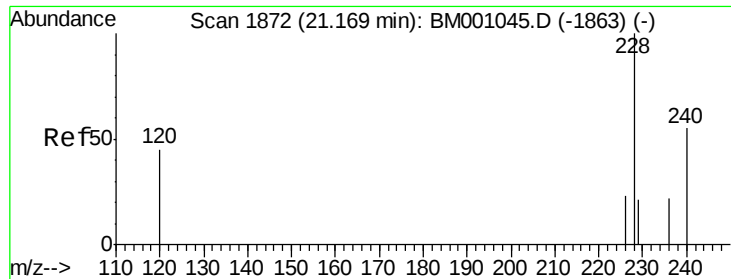


#21
Terphenyl-d14
Concen: 0.00 ng
Expected RT: 19.63 min

Lab File: BM001029.D
Acq: 17 Apr 2015 12:02

Tgt Ion: 244
Sig Exp Ratio
244 100
212 8.9
122 7.4





#22

Benzo(a)anthracene

Concen: 1.00 ng

RT: 21.17 min Scan# 1328

Delta R.T. 0.00 min

Lab File: BM001029.D

Acq: 17 Apr 2015 12:02

Instrument :

BNA_M

ClientSampleId :

SSTD0.133

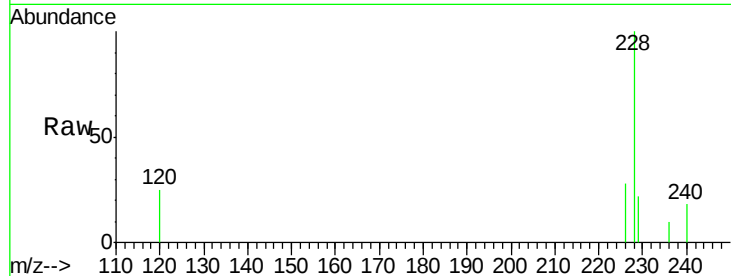
Tgt Ion:228 Resp: 1608

Ion Ratio Lower Upper

228 100

226 28.0 19.0 28.6

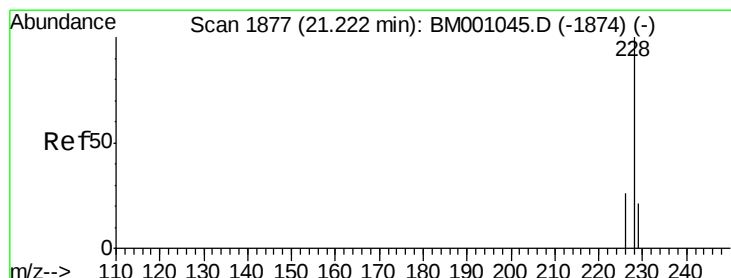
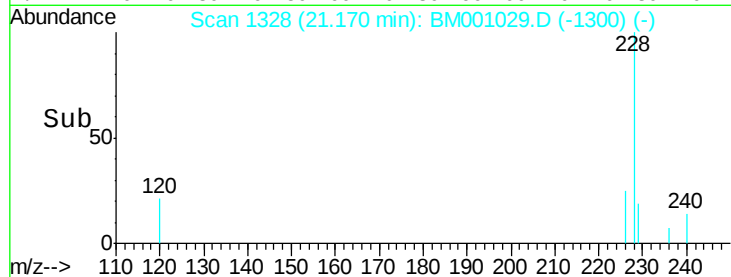
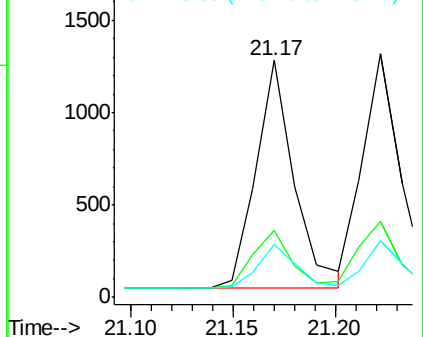
229 22.4 16.8 25.2



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: 0.97 ng

RT: 21.17 min Scan# 1328

Delta R.T. -0.05 min

Lab File: BM001029.D

Acq: 17 Apr 2015 12:02

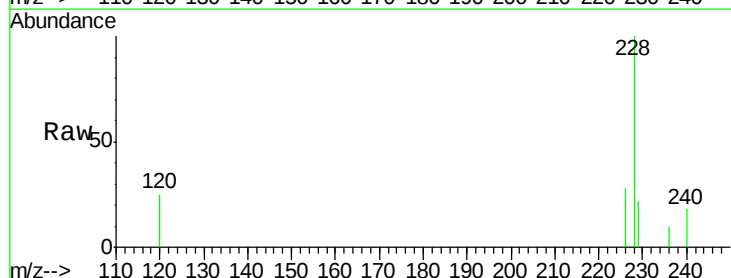
Tgt Ion:228 Resp: 1608

Ion Ratio Lower Upper

228 100

226 28.0 20.6 31.0

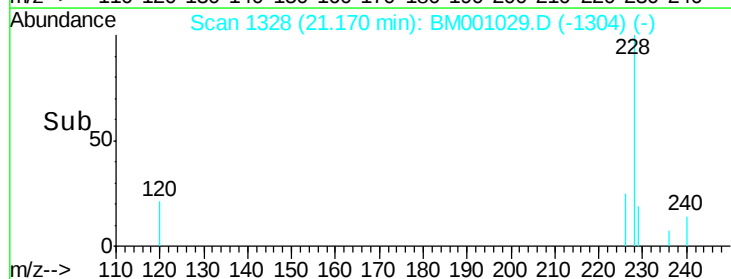
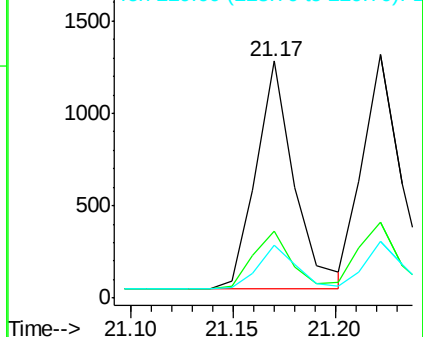
229 22.4 17.2 25.8

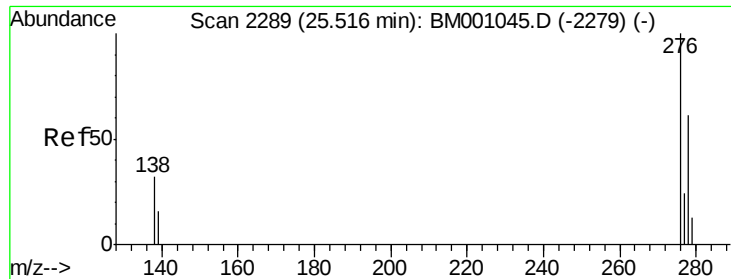


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#24

Indeno(1,2,3-cd)pyrene

Concen: 1.00 ng

RT: 25.53 min Scan# 1746

Delta R.T. 0.01 min

Lab File: BM001029.D

Acq: 17 Apr 2015 12:02

Instrument :

BNA_M

ClientSampleId :

SSTD0.133

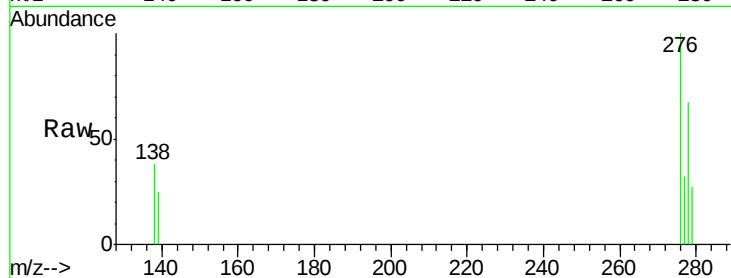
Tgt Ion:276 Resp: 1733

Ion Ratio Lower Upper

276 100

138 32.3 26.3 39.5

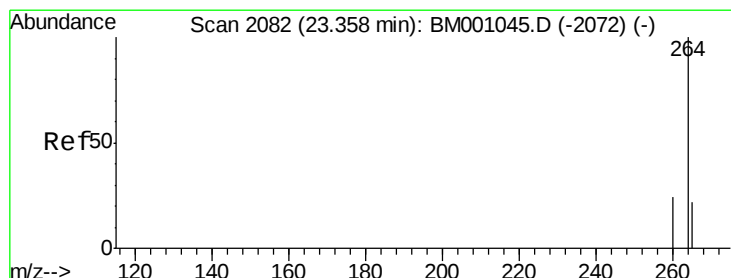
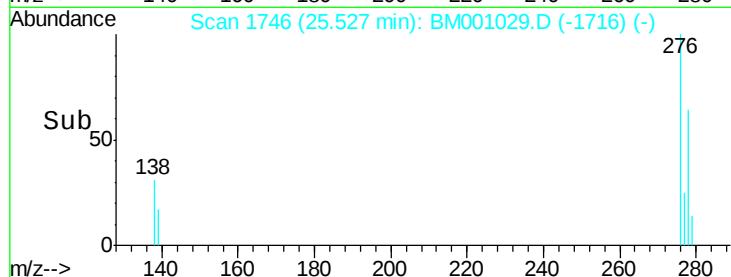
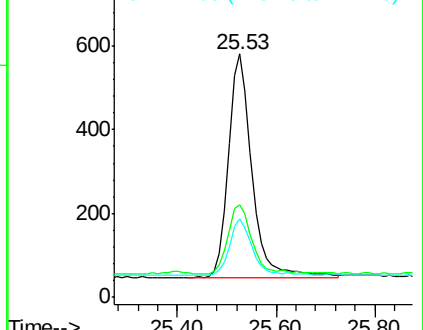
277 25.0 19.5 29.3



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: 23.36 min Scan# 1538

Delta R.T. 0.00 min

Lab File: BM001029.D

Acq: 17 Apr 2015 12:02

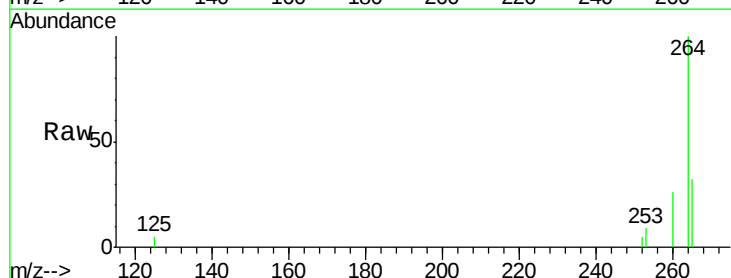
Tgt Ion:264 Resp: 4463

Ion Ratio Lower Upper

264 100

260 26.2 19.0 28.6

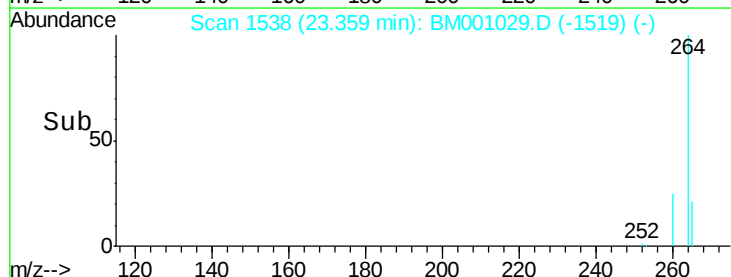
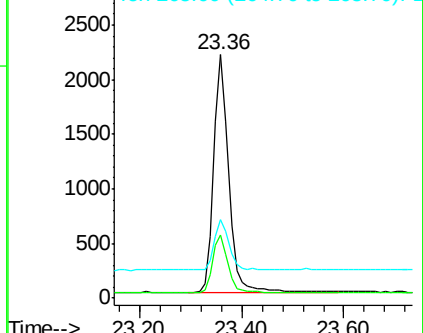
265 32.2 17.9 26.9#

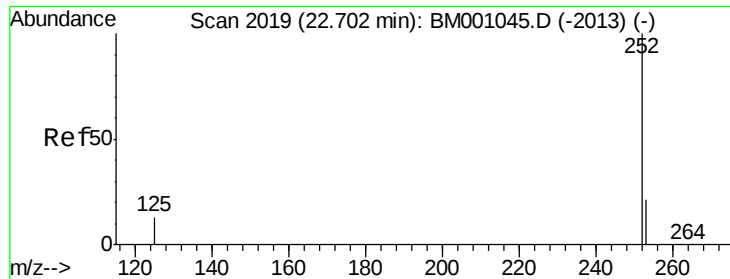


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#26

Benzo(b)fluoranthene

Concen: 1.09 ng

RT: 22.71 min Scan# 1476

Delta R.T. 0.01 min

Lab File: BM001029.D

Acq: 17 Apr 2015 12:02

Instrument :

BNA_M

ClientSampleId :

SSTD0.133

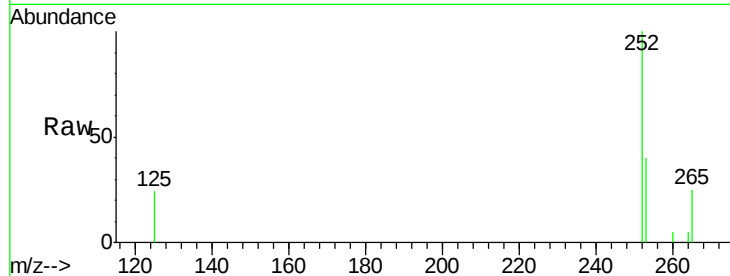
Tgt Ion:252 Resp: 1827

Ion Ratio Lower Upper

252 100

253 39.6 18.2 27.2#

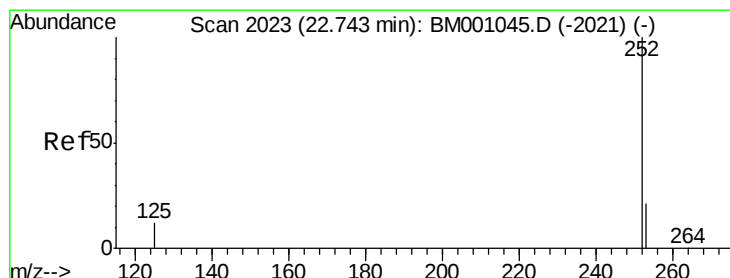
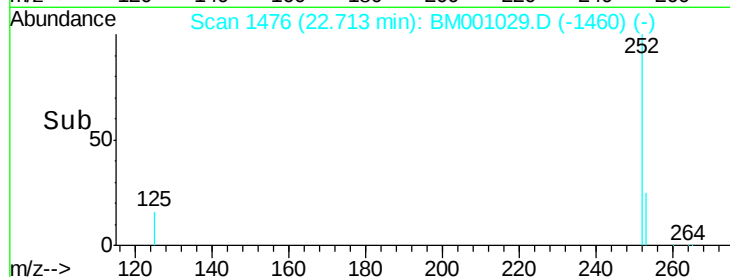
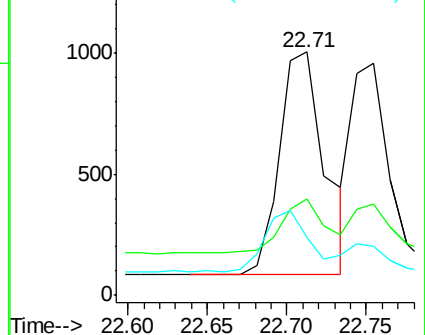
125 24.0 10.9 16.3#



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



#27

Benzo(k)fluoranthene

Concen: 0.97 ng

RT: 22.75 min Scan# 1480

Delta R.T. 0.01 min

Lab File: BM001029.D

Acq: 17 Apr 2015 12:02

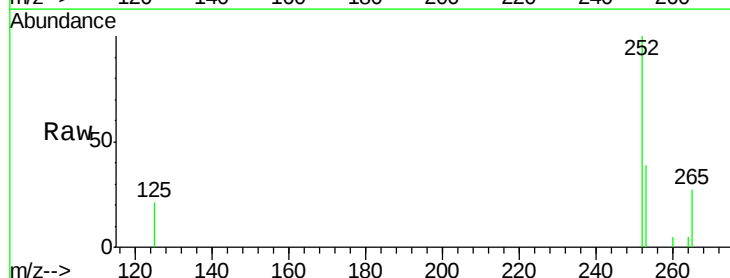
Tgt Ion:252 Resp: 1529

Ion Ratio Lower Upper

252 100

253 39.3 18.3 27.5#

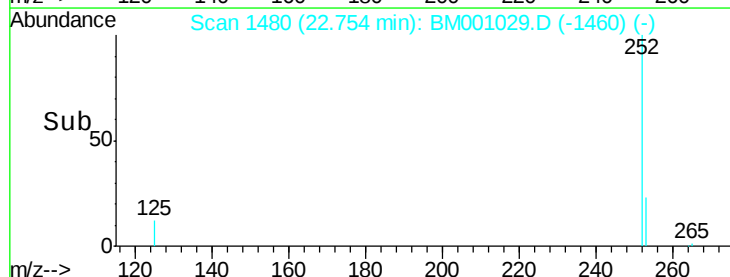
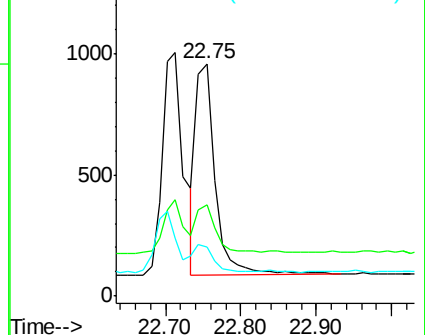
125 21.4 10.6 15.8#

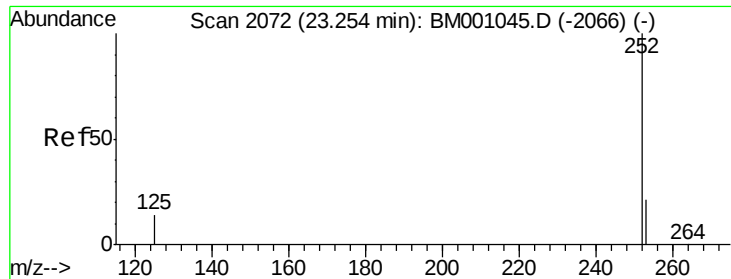


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#28

Benzo(a)pyrene

Concen: 1.07 ng

RT: 23.27 min Scan# 1529

Delta R.T. 0.01 min

Lab File: BM001029.D

Acq: 17 Apr 2015 12:02

Instrument :

BNA_M

ClientSampleId :

SSTD0.133

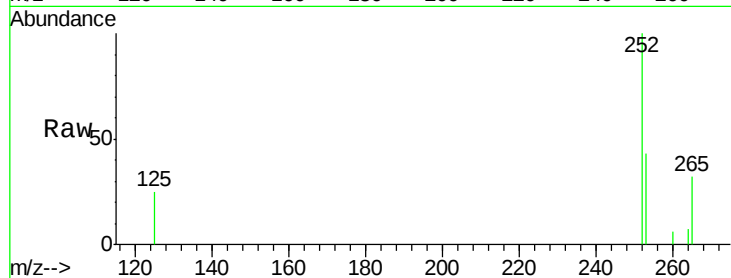
Tgt Ion:252 Resp: 1555

Ion Ratio Lower Upper

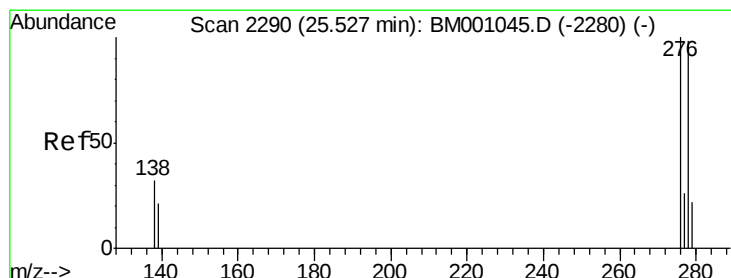
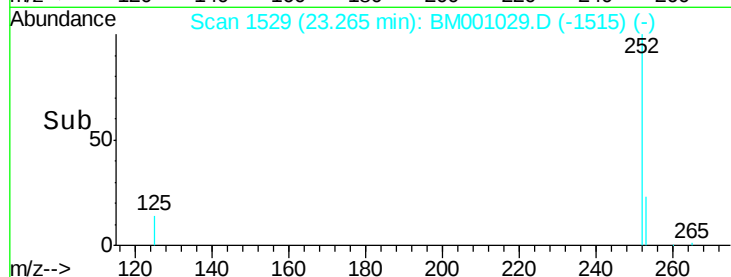
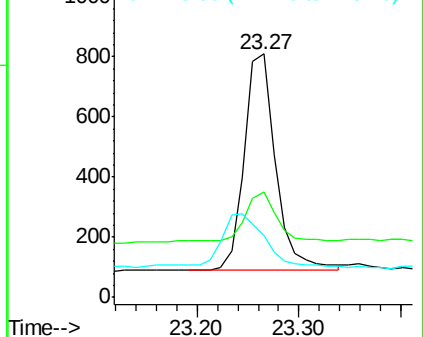
252 100

253 43.3 18.6 27.8#

125 25.5 11.9 17.9#



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: 1.00 ng

RT: 25.54 min Scan# 1747

Delta R.T. 0.01 min

Lab File: BM001029.D

Acq: 17 Apr 2015 12:02

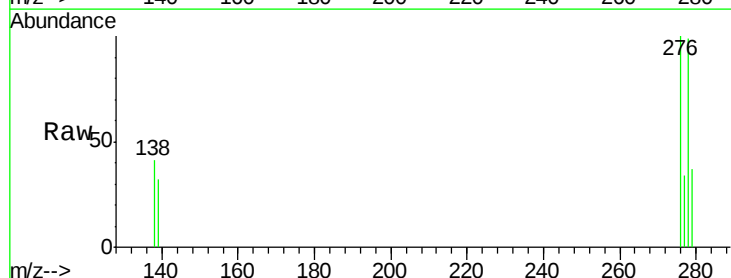
Tgt Ion:278 Resp: 1406

Ion Ratio Lower Upper

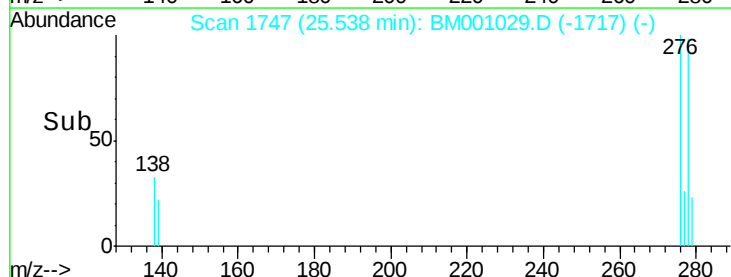
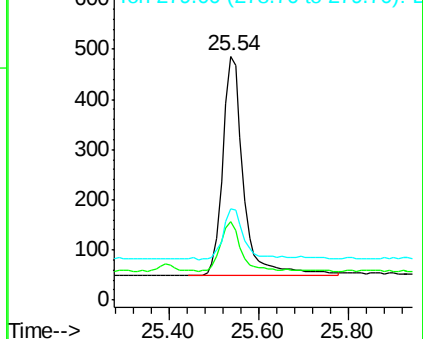
278 100

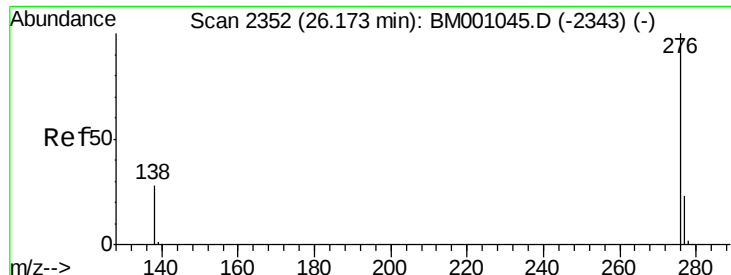
139 31.9 18.2 27.2#

279 37.4 19.1 28.7#



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: 1.03 ng

RT: 26.18 min Scan# 1809

Delta R.T. 0.01 min

Lab File: BM001029.D

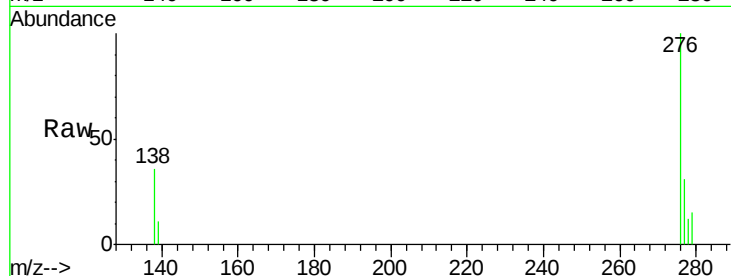
Acq: 17 Apr 2015 12:02

Instrument :

BNA_M

ClientSampleId :

SSTD0.133



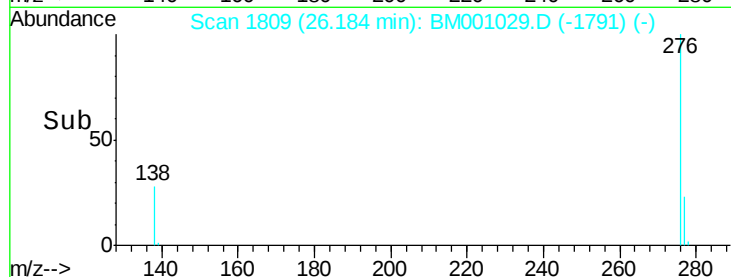
Tgt Ion: 276 Resp: 1553

Ion Ratio Lower Upper

276 100

277 30.9 19.0 28.4#

138 36.0 23.4 35.2#



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

