

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM041815\
 Data File : BM001049.D
 Acq On : 18 Apr 2015 07:26
 Operator : TP/IZ
 Sample : SSTDICV001
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 ICVBM041815

Quant Time: Apr 20 08:05:18 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

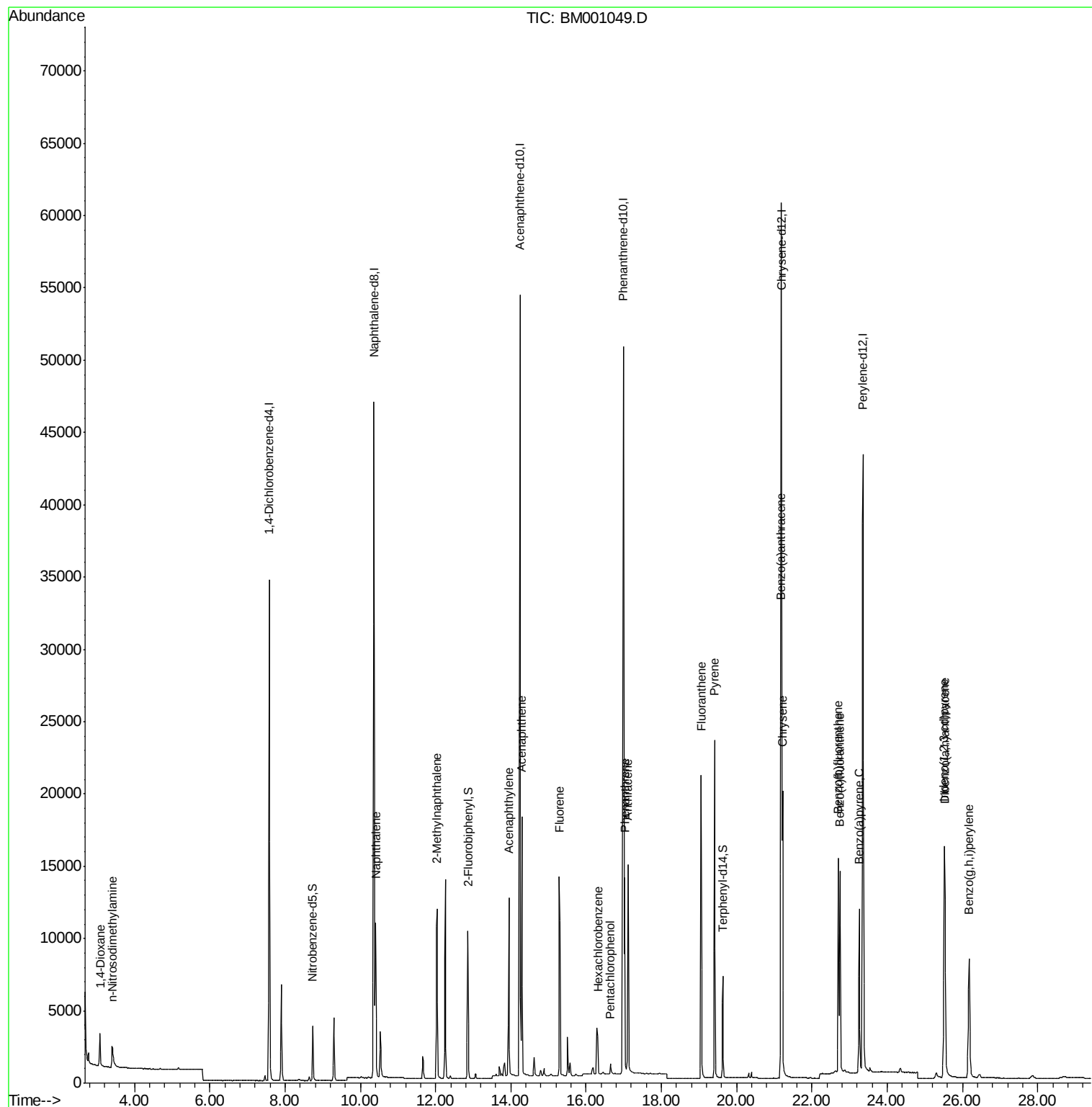
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.58	152	17572	5.00	ng	0.00
4) Naphthalene-d8	10.36	136	62550	5.00	ng	0.00
8) Acenaphthene-d10	14.24	164	33191	5.00	ng	0.00
13) Phenanthrene-d10	16.99	188	73366	5.00	ng	0.00
19) Chrysene-d12	21.19	240	62711	5.00	ng	0.00
25) Perylene-d12	23.36	264	55791	5.00	ng	0.00
System Monitoring Compounds						
5) Nitrobenzene-d5	8.74	82	3337	0.98	ng	0.00
9) 2-Fluorobiphenyl	12.86	172	10739	0.98	ng	0.00
21) Terphenyl-d14	19.63	244	8163	0.88	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.08	88	2541	1.31	ng	# 100
3) n-Nitrosodimethylamine	3.41	42	1775	0.93	ng	96
6) Naphthalene	10.41	128	14673	0.98	ng	99
7) 2-Methylnaphthalene	12.04	142	9523	0.96	ng	99
10) Acenaphthylene	13.95	152	14502	0.95	ng	100
11) Acenaphthene	14.29	154	9596	0.92	ng	99
12) Fluorene	15.29	166	11770	0.97	ng	100
14) Hexachlorobenzene	16.31	284	3933	0.88	ng	# 100
15) Pentachlorophenol	16.64	266	777	0.78	ng	96
16) Phenanthrene	17.03	178	18715	0.87	ng	100
17) Anthracene	17.11	178	17613	1.03	ng	100
18) Fluoranthene	19.05	202	19891	1.03	ng	100
20) Pyrene	19.42	202	20704	0.89	ng	100
22) Benzo(a)anthracene	21.17	228	17662	0.87	ng	99
23) Chrysene	21.22	228	18765	0.89	ng	99
24) Indeno(1,2,3-cd)pyrene	25.52	276	19333	0.88	ng	100
26) Benzo(b)fluoranthene	22.70	252	17850	0.88	ng	99
27) Benzo(k)fluoranthene	22.74	252	17487	0.90	ng	99
28) Benzo(a)pyrene	23.25	252	15337	0.87	ng	99
29) Dibenzo(a,h)anthracene	25.53	278	15226	0.88	ng	100
30) Benzo(g,h,i)perylene	26.17	276	16224	0.88	ng	99

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

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.58 min Scan# 631

Delta R.T. 0.00 min

Lab File: BM001049.D

Acq: 18 Apr 2015 07:26

Instrument :

BNA_M

ClientSampleId :

ICVBM041815

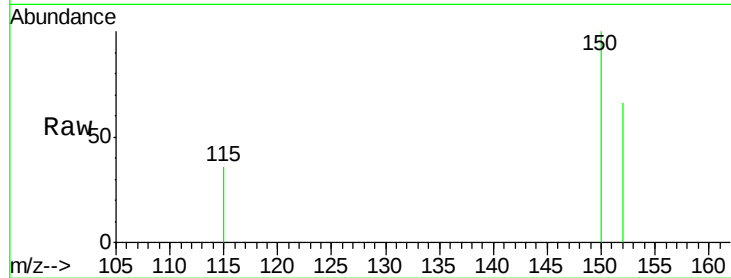
Tgt Ion:152 Resp: 17572

Ion Ratio Lower Upper

152 100

150 151.8 123.3 184.9

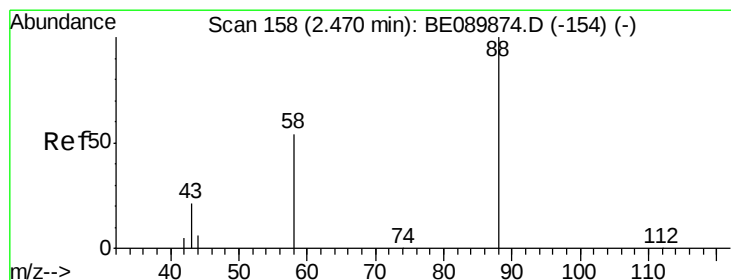
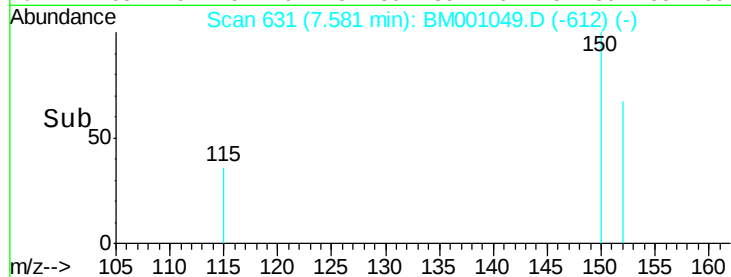
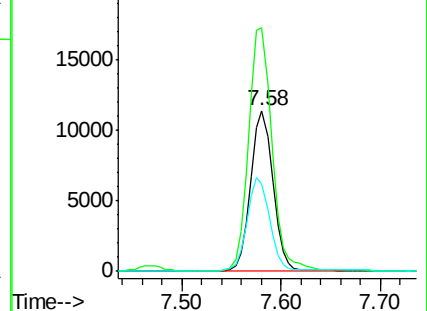
115 54.3 45.0 67.6



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



#2

1,4-Dioxane

Concen: 1.31 ng

RT: 3.08 min Scan# 39

Delta R.T. 0.00 min

Lab File: BM001049.D

Acq: 18 Apr 2015 07:26

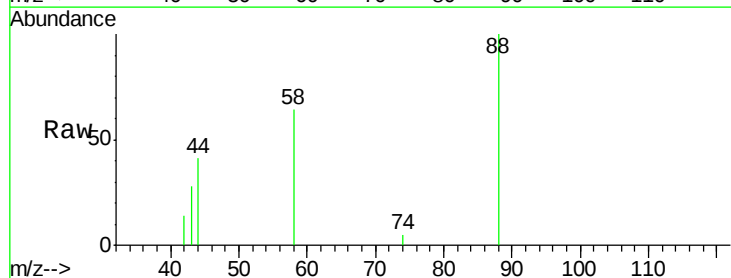
Tgt Ion: 88 Resp: 2541

Ion Ratio Lower Upper

88 100

58 54.7 0.0 0.0#

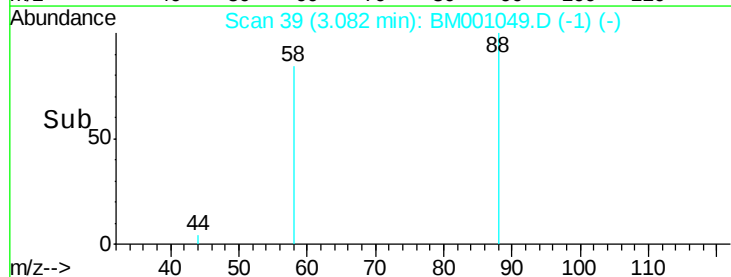
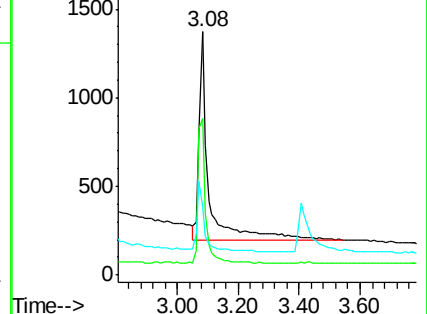
43 22.9 0.0 0.0#

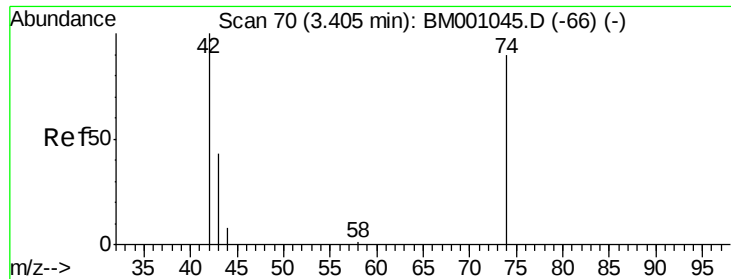


Abundance Ion 88.00 (87.70 to 88.70): BM0

Ion 58.00 (57.70 to 58.70): BM0

Ion 43.00 (42.70 to 43.70): BM0





#3

n-Nitrosodimethylamine

Concen: 0.93 ng

RT: 3.41 min Scan# 70

Delta R.T. 0.00 min

Lab File: BM001049.D

Acq: 18 Apr 2015 07:26

Instrument :

BNA_M

ClientSampleId :

ICVBM041815

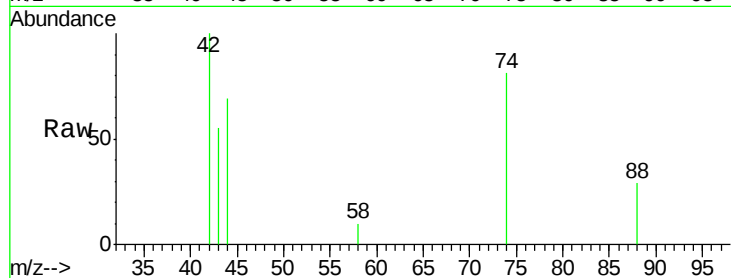
Tgt Ion: 42 Resp: 1775

Ion Ratio Lower Upper

42 100

74 119.5 92.1 138.1

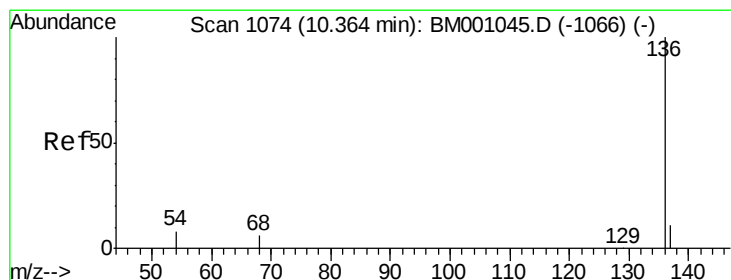
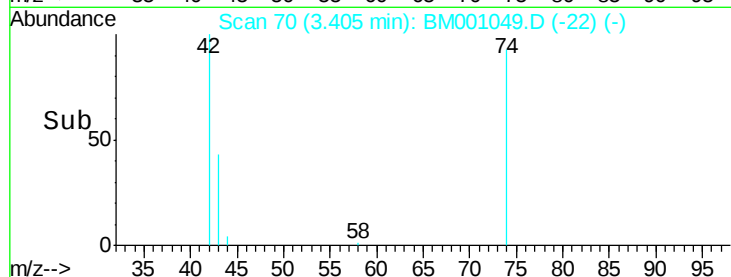
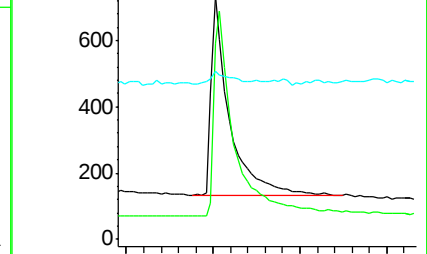
44 7.4 5.8 8.6



Abundance Ion 42.00 (41.70 to 42.70): BM001045.D (-66) (-)

Ion 74.00 (73.70 to 74.70): BM001045.D (-66) (-)

Ion 44.00 (43.70 to 44.70): BM001045.D (-66) (-)



#4

Naphthalene-d8

Concen: 5.00 ng

RT: 10.36 min Scan# 1074

Delta R.T. 0.00 min

Lab File: BM001049.D

Acq: 18 Apr 2015 07:26

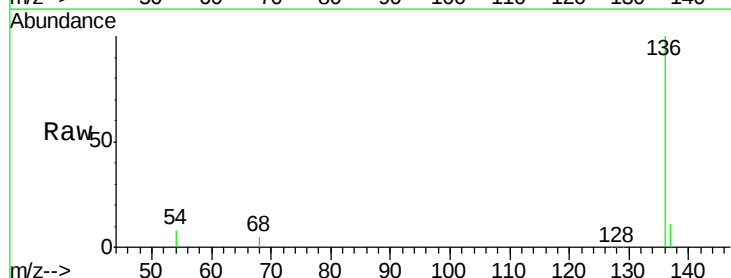
Tgt Ion: 136 Resp: 62550

Ion Ratio Lower Upper

136 100

137 11.0 8.6 13.0

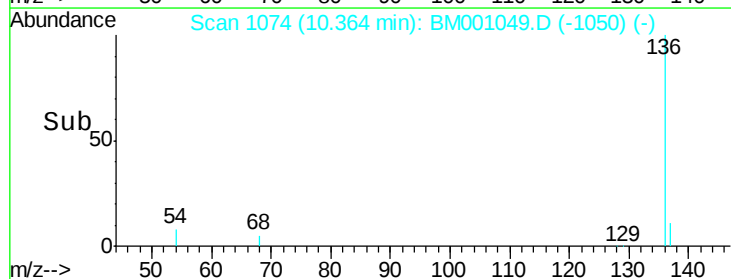
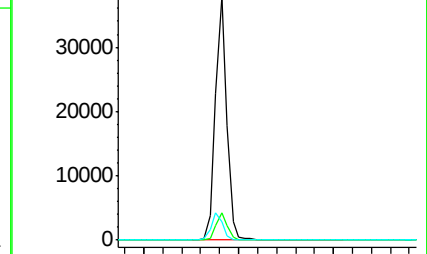
54 7.7 6.5 9.7

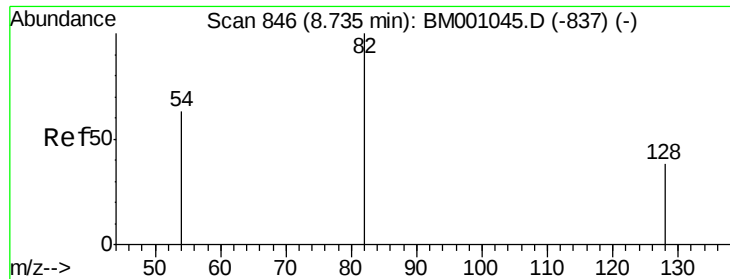


Abundance Ion 136.00 (135.70 to 136.70): BM001045.D (-1066) (-)

Ion 137.00 (136.70 to 137.70): BM001045.D (-1066) (-)

Ion 54.00 (53.70 to 54.70): BM001045.D (-1066) (-)





#5

Nitrobenzene-d5

Concen: 0.98 ng

RT: 8.74 min Scan# 846

Delta R.T. 0.00 min

Lab File: BM001049.D

Acq: 18 Apr 2015 07:26

Instrument :

BNA_M

ClientSampleId :

ICVBM041815

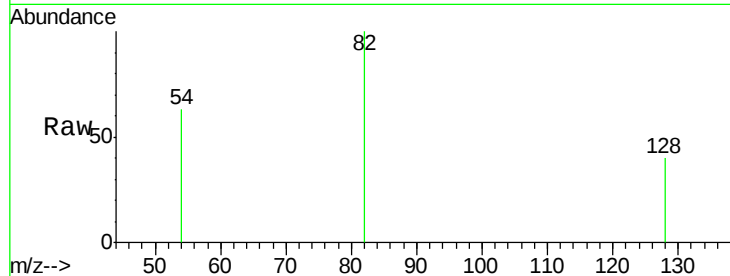
Tgt Ion: 82 Resp: 3337

Ion Ratio Lower Upper

82 100

128 40.3 31.9 47.9

54 63.0 51.3 76.9

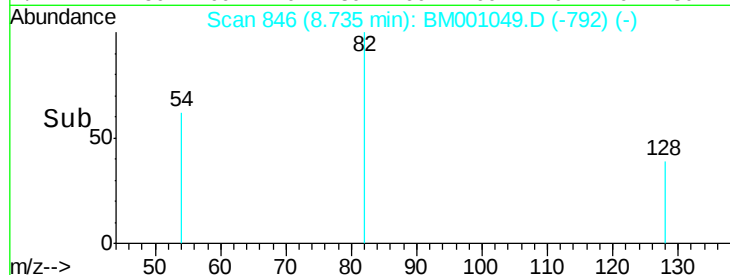


Abundance Ion 82.00 (81.70 to 82.70): BM001049.D (-792) (-)

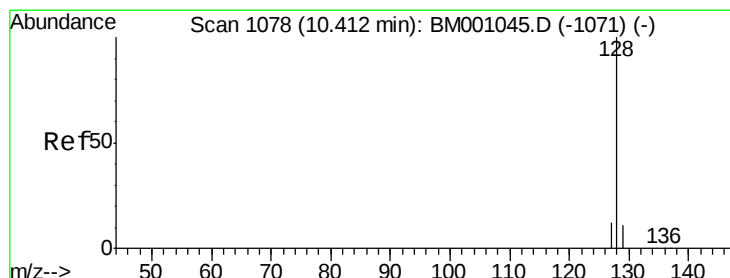
Ion 128.00 (127.70 to 128.70): BM001049.D (-792) (-)

Ion 54.00 (53.70 to 54.70): BM001049.D (-792) (-)

Time-->



Time-->



#6

Naphthalene

Concen: 0.98 ng

RT: 10.41 min Scan# 1078

Delta R.T. 0.00 min

Lab File: BM001049.D

Acq: 18 Apr 2015 07:26

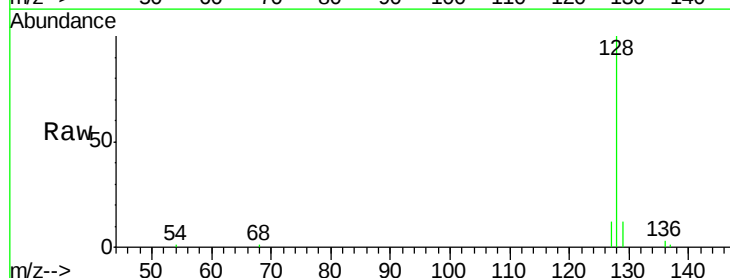
Tgt Ion: 128 Resp: 14673

Ion Ratio Lower Upper

128 100

129 11.7 9.3 13.9

127 12.1 10.0 15.0

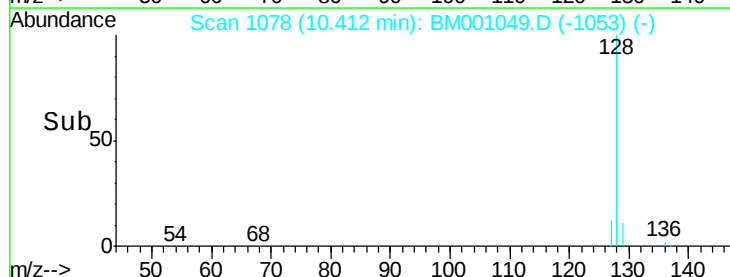


Abundance Ion 128.00 (127.70 to 128.70): BM001049.D (-1053) (-)

Ion 129.00 (128.70 to 129.70): BM001049.D (-1053) (-)

Ion 127.00 (126.70 to 127.70): BM001049.D (-1053) (-)

Time-->



Time-->



#7

2-Methylnaphthalene

Concen: 0.96 ng

RT: 12.04 min Scan# 1224

Delta R.T. 0.00 min

Lab File: BM001049.D

Acq: 18 Apr 2015 07:26

Instrument :

BNA_M

ClientSampleId :

ICVBM041815

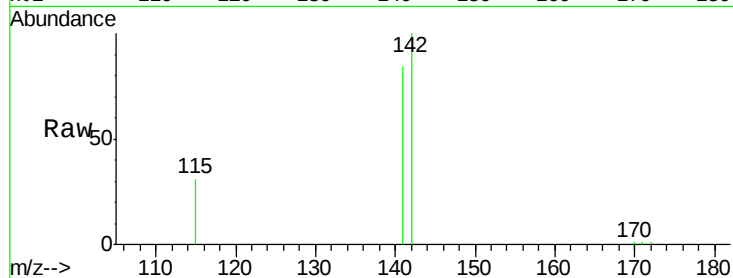
Tgt Ion:142 Resp: 9523

Ion Ratio Lower Upper

142 100

141 84.0 66.7 100.1

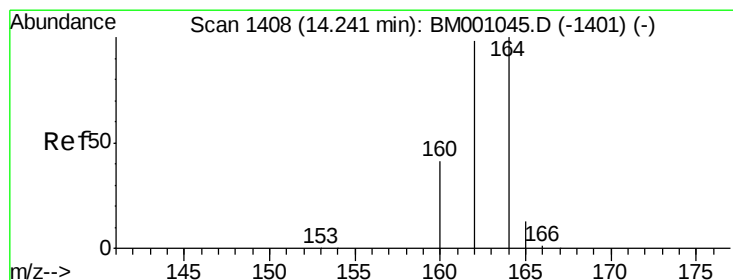
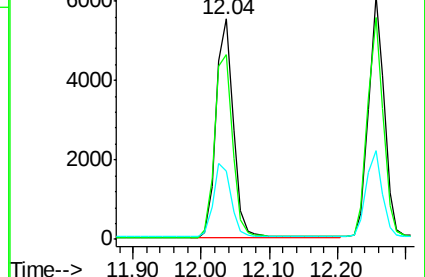
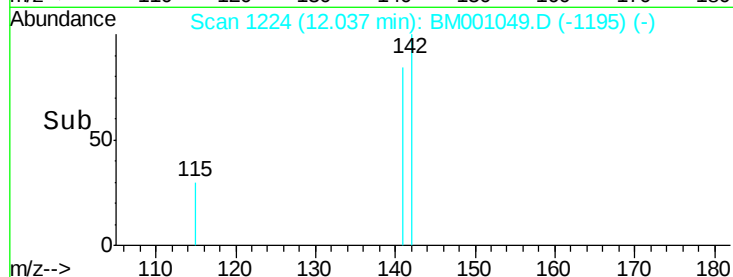
115 31.2 25.5 38.3



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# 1408

Delta R.T. 0.00 min

Lab File: BM001049.D

Acq: 18 Apr 2015 07:26

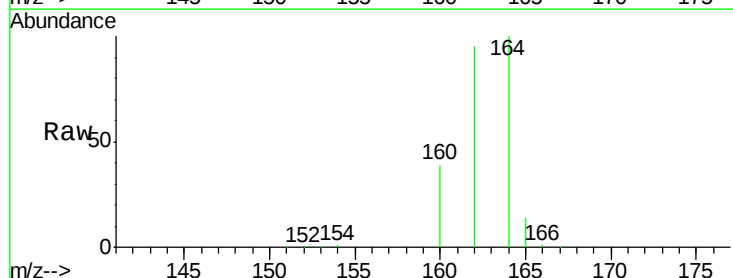
Tgt Ion:164 Resp: 33191

Ion Ratio Lower Upper

164 100

162 95.3 78.5 117.7

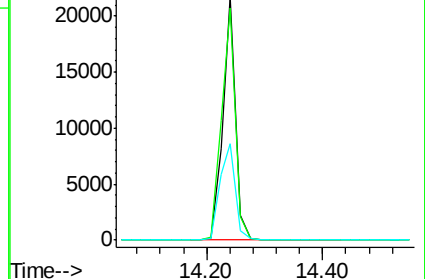
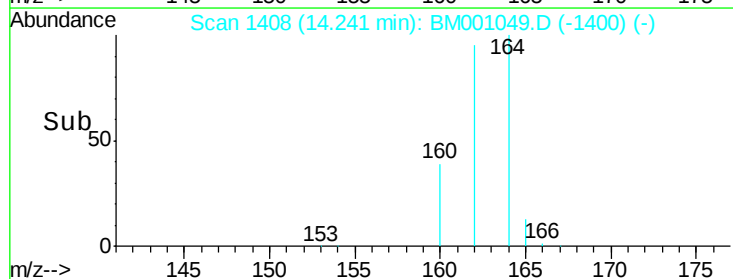
160 39.4 32.9 49.3



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: 0.98 ng

RT: 12.86 min Scan# 1303

Delta R.T. 0.00 min

Lab File: BM001049.D

Acq: 18 Apr 2015 07:26

Instrument :

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ClientSampleId :

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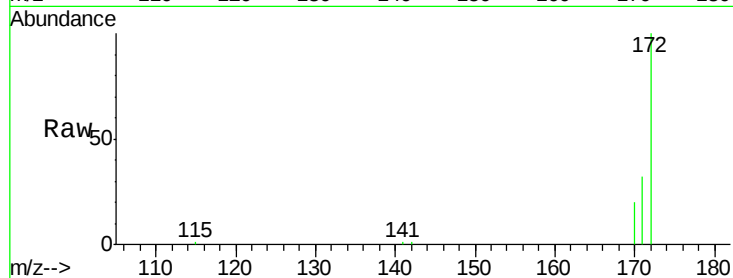
Tgt Ion:172 Resp: 10739

Ion Ratio Lower Upper

172 100

171 31.9 25.6 38.4

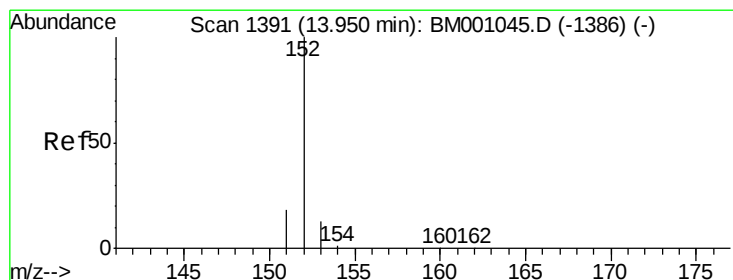
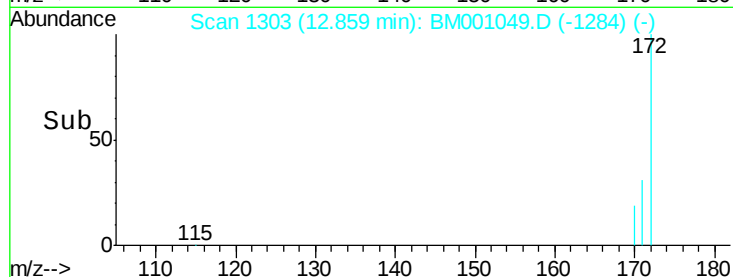
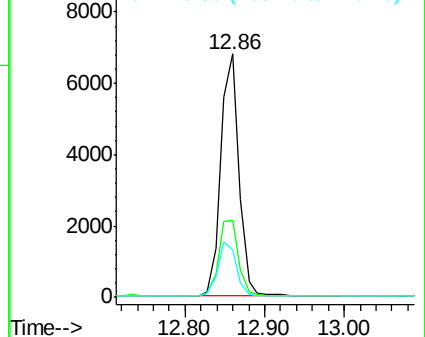
170 19.6 15.8 23.6



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: 0.95 ng

RT: 13.95 min Scan# 1391

Delta R.T. 0.00 min

Lab File: BM001049.D

Acq: 18 Apr 2015 07:26

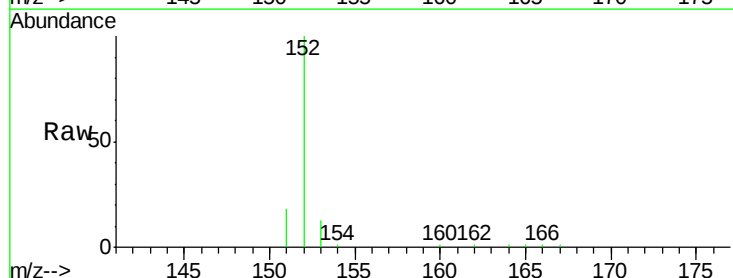
Tgt Ion:152 Resp: 14502

Ion Ratio Lower Upper

152 100

151 18.7 14.7 22.1

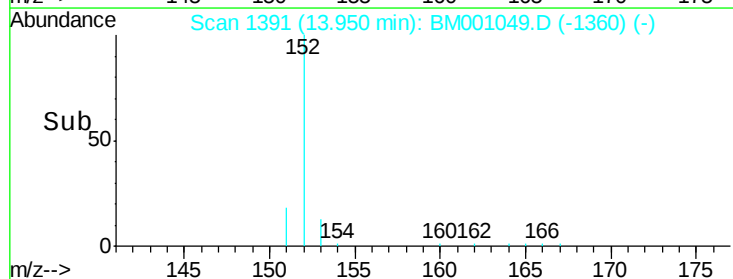
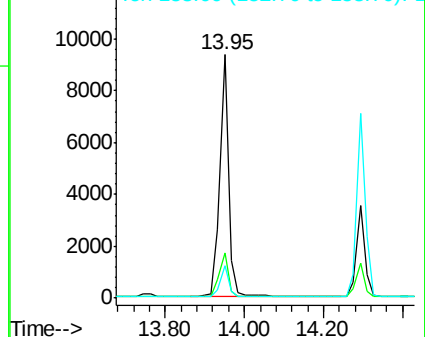
153 12.7 10.2 15.2

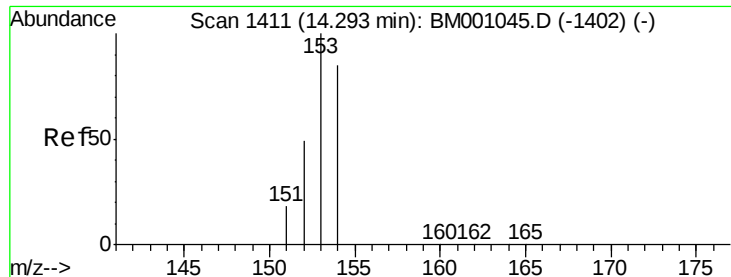


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#11

Acenaphthene

Concen: 0.92 ng

RT: 14.29 min Scan# 1411

Delta R.T. 0.00 min

Lab File: BM001049.D

Acq: 18 Apr 2015 07:26

Instrument :

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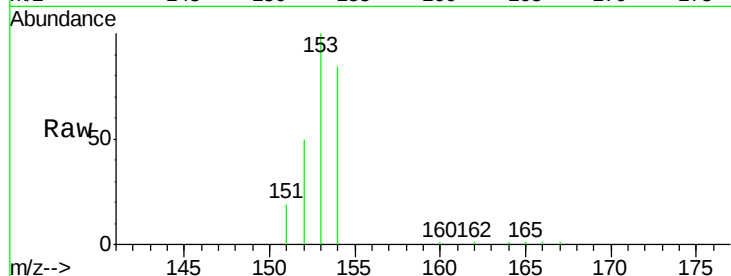
Tgt Ion:154 Resp: 9596

Ion Ratio Lower Upper

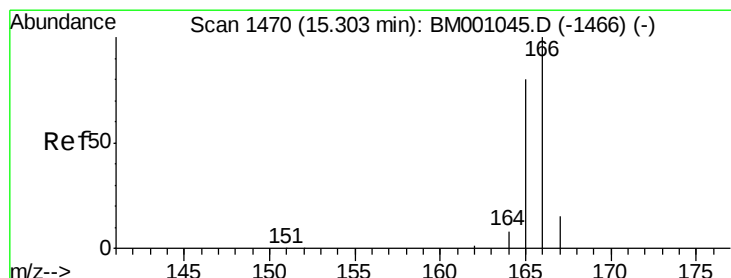
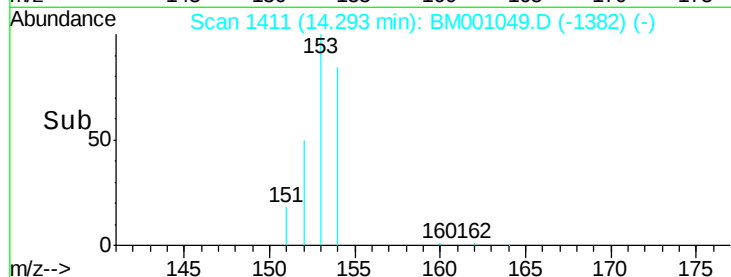
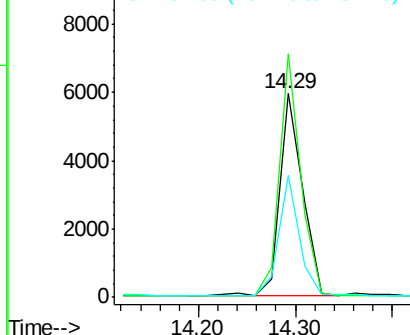
154 100

153 111.6 88.1 132.1

152 54.0 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



#12

Fluorene

Concen: 0.97 ng

RT: 15.29 min Scan# 1469

Delta R.T. -0.02 min

Lab File: BM001049.D

Acq: 18 Apr 2015 07:26

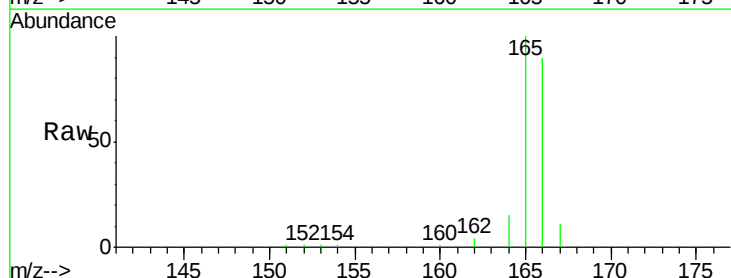
Tgt Ion:166 Resp: 11770

Ion Ratio Lower Upper

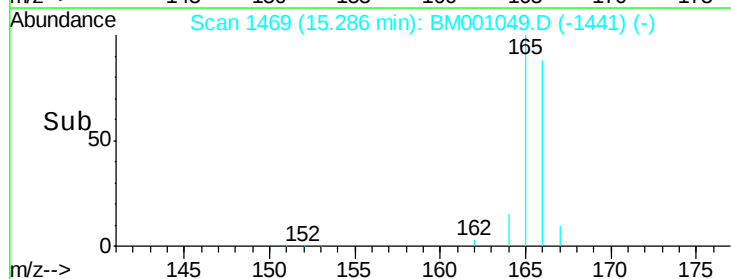
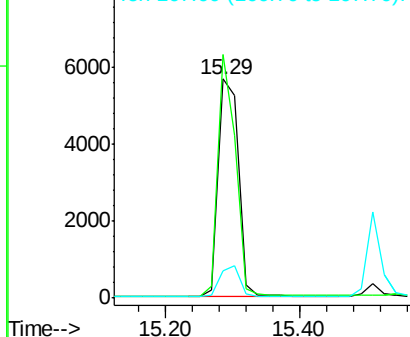
166 100

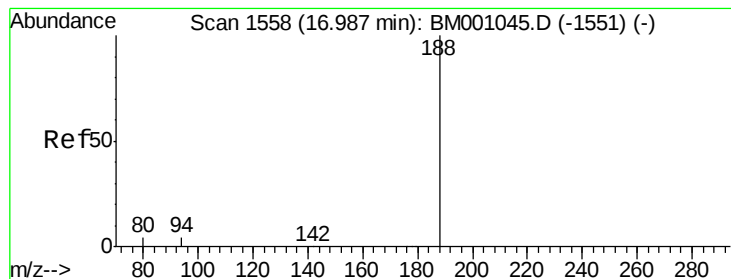
165 96.7 77.6 116.4

167 13.4 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





#13

Phenanthrene-d10

Concen: 5.00 ng

RT: 16.99 min Scan# 1558

Delta R.T. 0.00 min

Lab File: BM001049.D

Acq: 18 Apr 2015 07:26

Instrument :

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ClientSampleId :

ICVBM041815

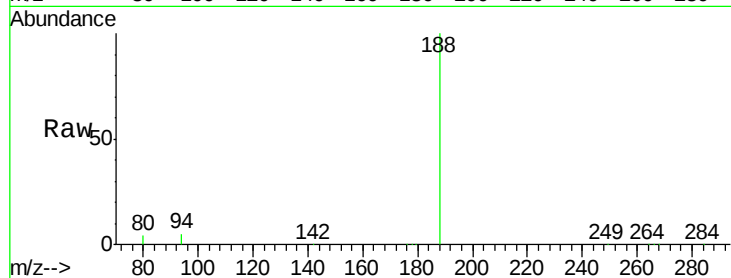
Tgt Ion:188 Resp: 73366

Ion Ratio Lower Upper

188 100

94 4.8 3.6 5.4

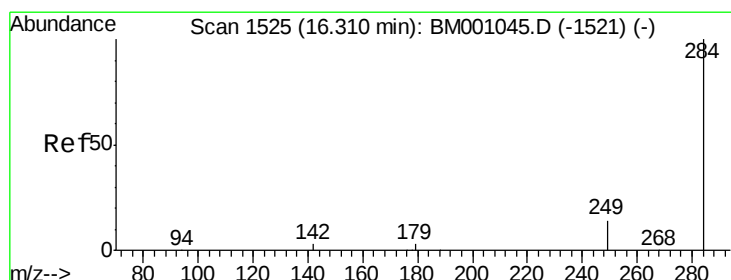
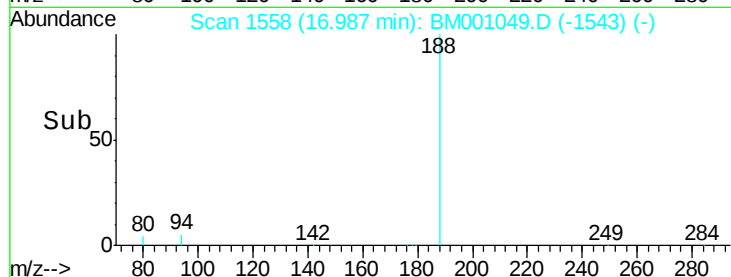
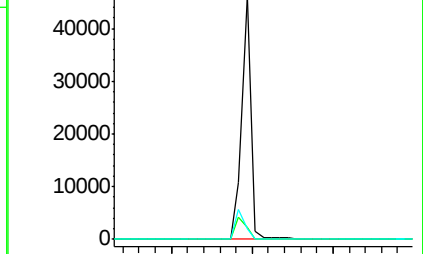
80 4.2 3.0 4.6



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BM

Ion 80.00 (79.70 to 80.70): BM



#14

Hexachlorobenzene

Concen: 0.88 ng

RT: 16.31 min Scan# 1525

Delta R.T. 0.00 min

Lab File: BM001049.D

Acq: 18 Apr 2015 07:26

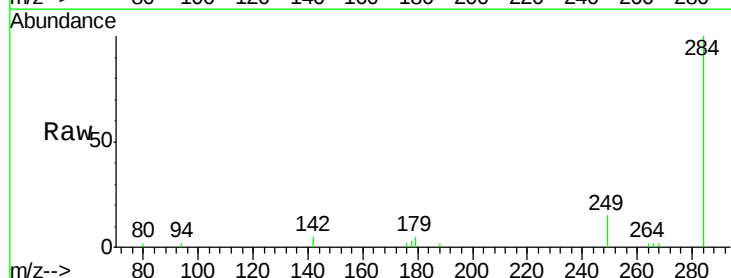
Tgt Ion:284 Resp: 3933

Ion Ratio Lower Upper

284 100

142 0.0 0.0 0.0

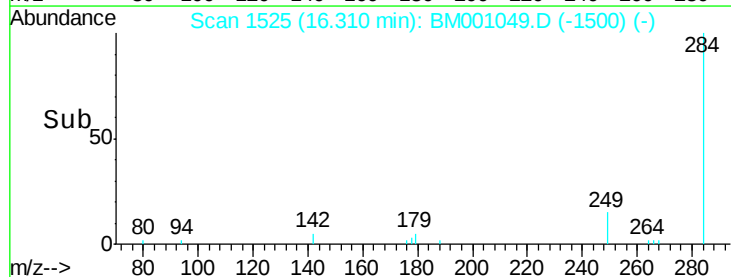
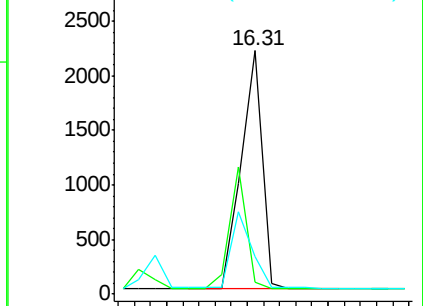
249 0.0 0.0 0.0



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

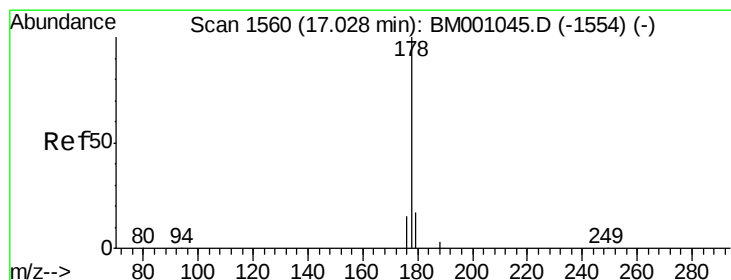
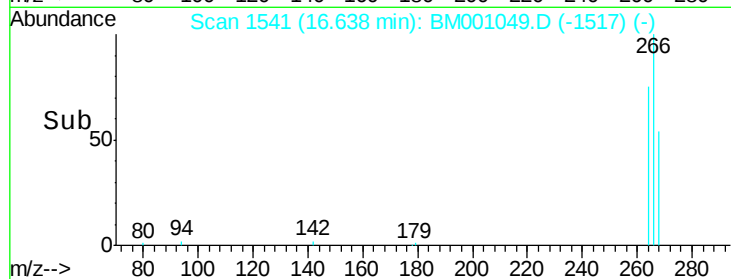
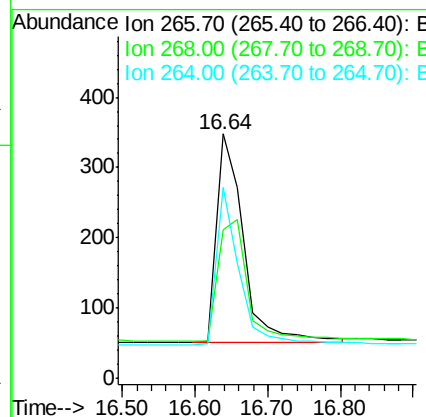
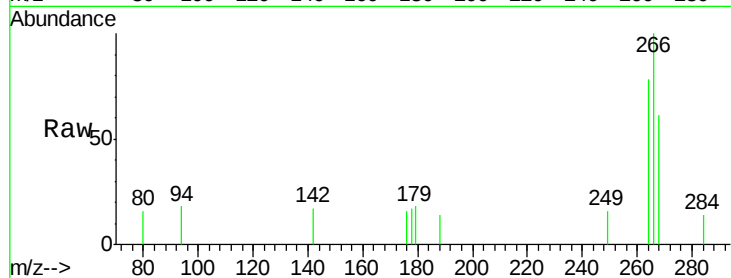




#15
 Pentachlorophenol
 Concen: 0.78 ng
 RT: 16.64 min Scan# 1541
 Delta R.T. 0.00 min
 Lab File: BM001049.D
 Acq: 18 Apr 2015 07:26

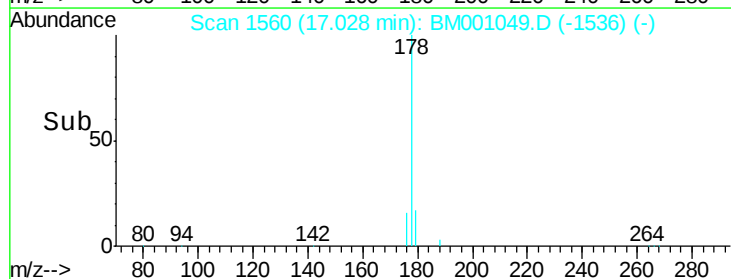
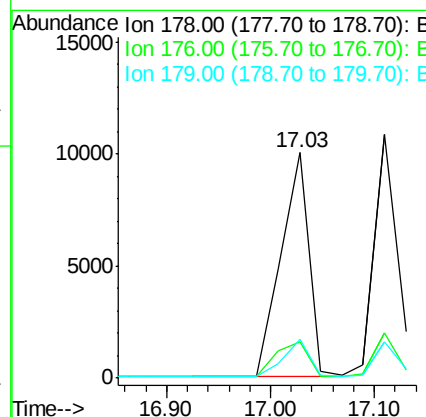
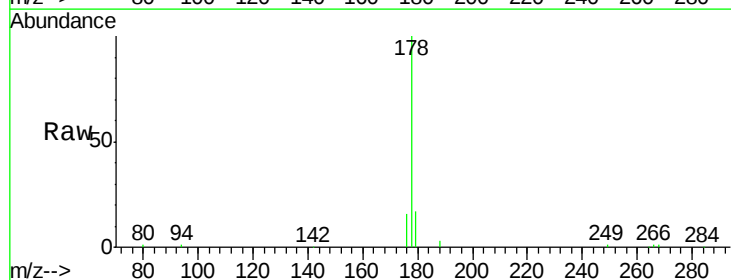
Instrument :
 BNA_M
 ClientSampleId :
 ICVBM041815

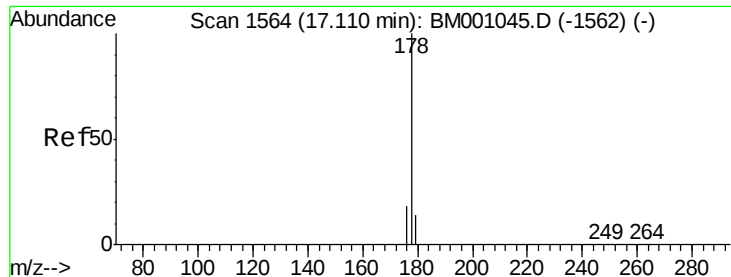
Tgt Ion: 266 Resp: 777
 Ion Ratio Lower Upper
 266 100
 268 60.9 46.3 69.5
 264 77.9 59.8 89.6



#16
 Phenanthrene
 Concen: 0.87 ng
 RT: 17.03 min Scan# 1560
 Delta R.T. 0.00 min
 Lab File: BM001049.D
 Acq: 18 Apr 2015 07:26

Tgt Ion: 178 Resp: 18715
 Ion Ratio Lower Upper
 178 100
 176 18.4 14.6 22.0
 179 15.7 12.6 19.0





#17

Anthracene

Concen: 1.03 ng

RT: 17.11 min Scan# 1564

Delta R.T. 0.00 min

Lab File: BM001049.D

Acq: 18 Apr 2015 07:26

Instrument :

BNA_M

ClientSampleId :

ICVBM041815

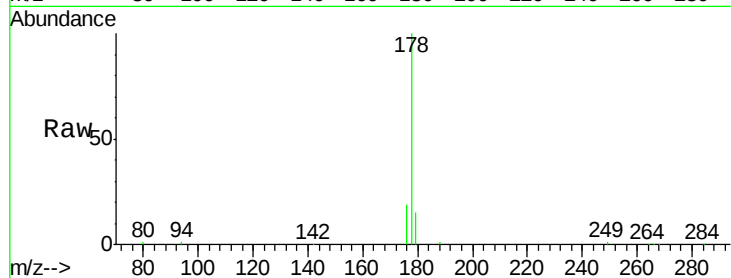
Tgt Ion:178 Resp: 17613

Ion Ratio Lower Upper

178 100

176 17.9 14.3 21.5

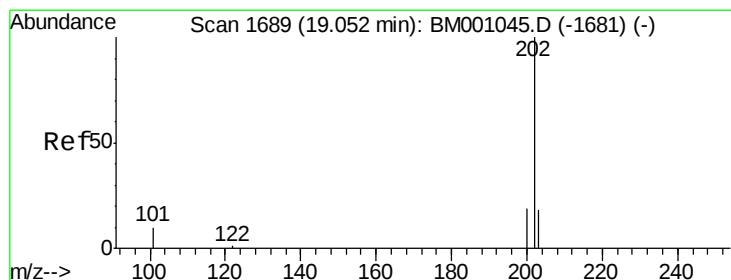
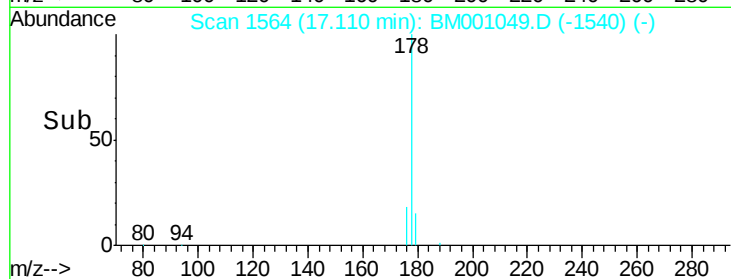
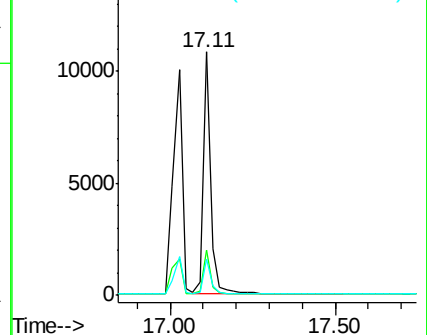
179 14.9 11.8 17.8



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: 1.03 ng

RT: 19.05 min Scan# 1689

Delta R.T. 0.00 min

Lab File: BM001049.D

Acq: 18 Apr 2015 07:26

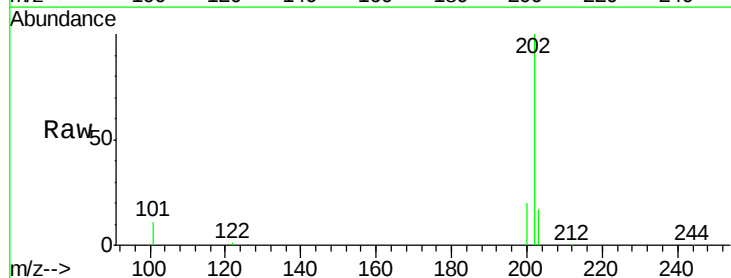
Tgt Ion:202 Resp: 19891

Ion Ratio Lower Upper

202 100

101 12.7 10.1 15.1

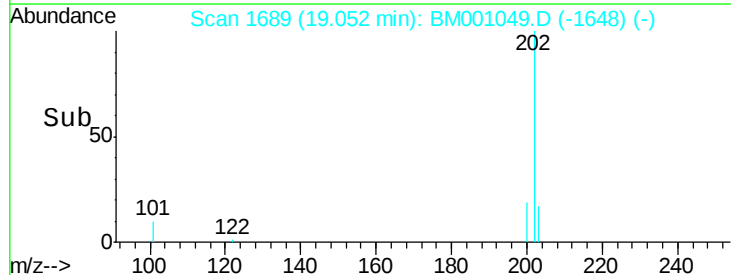
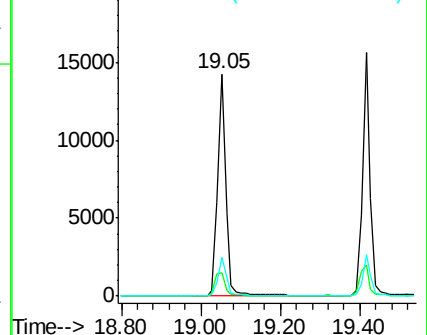
203 17.1 13.8 20.8

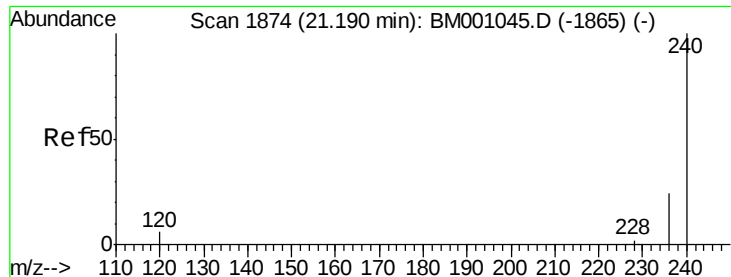


Abundance Ion 202.00 (201.70 to 202.70): E

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# 1874

Delta R.T. 0.00 min

Lab File: BM001049.D

Acq: 18 Apr 2015 07:26

Instrument :

BNA_M

ClientSampleId :

ICVBM041815

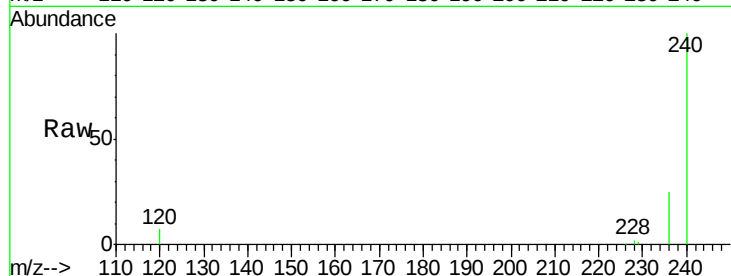
Tgt Ion:240 Resp: 62711

Ion Ratio Lower Upper

240 100

120 6.6 4.6 6.8

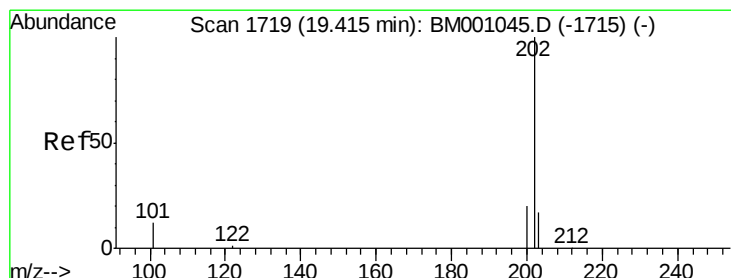
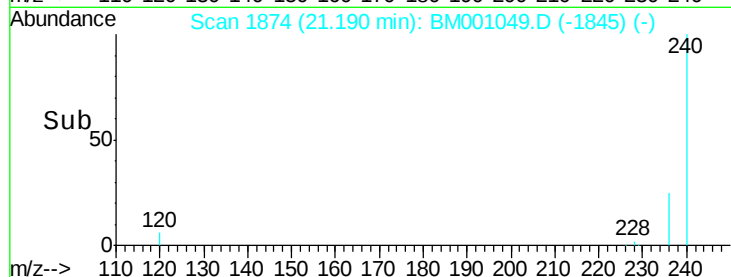
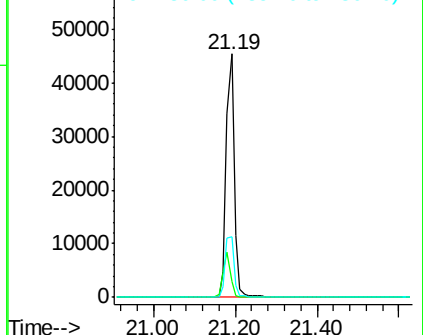
236 24.8 19.1 28.7



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: 0.89 ng

RT: 19.42 min Scan# 1719

Delta R.T. 0.00 min

Lab File: BM001049.D

Acq: 18 Apr 2015 07:26

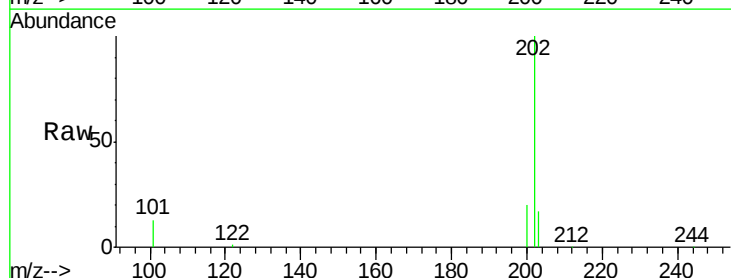
Tgt Ion:202 Resp: 20704

Ion Ratio Lower Upper

202 100

200 20.2 16.3 24.5

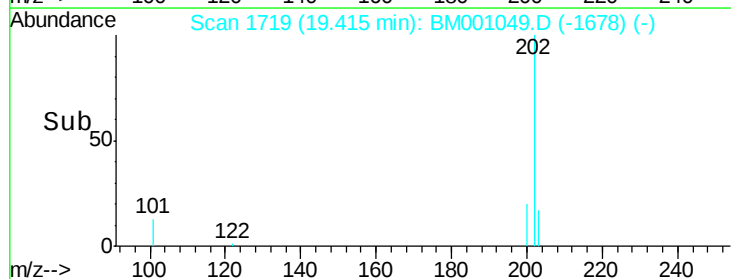
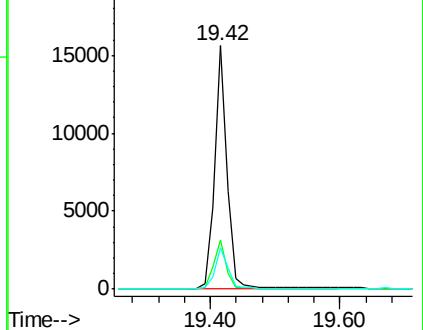
203 17.2 13.8 20.6

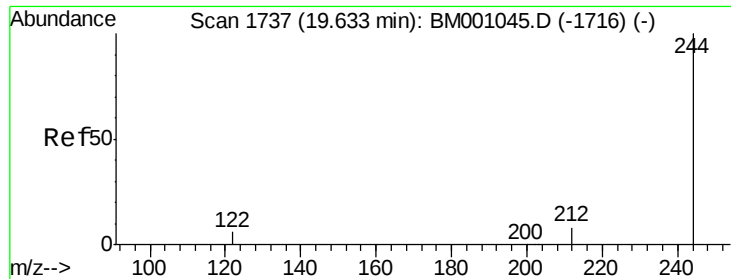


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#21

Terphenyl-d14

Concen: 0.88 ng

RT: 19.63 min Scan# 1737

Delta R.T. 0.00 min

Lab File: BM001049.D

Acq: 18 Apr 2015 07:26

Instrument :

BNA_M

ClientSampleId :

ICVBM041815

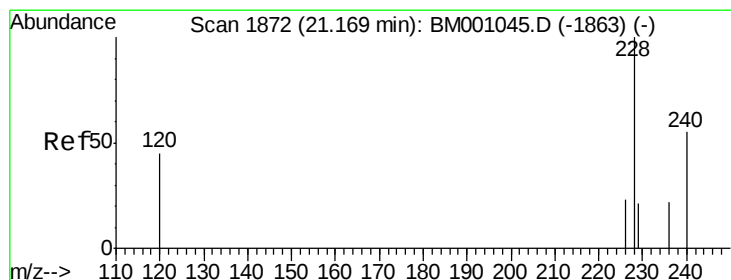
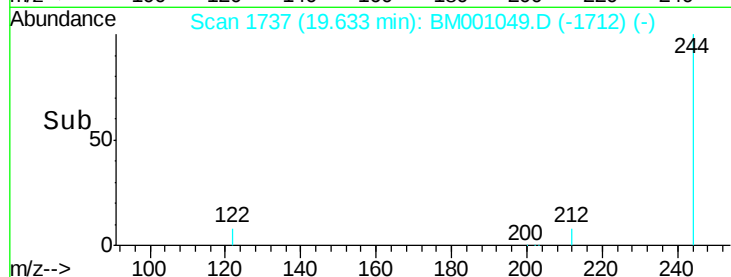
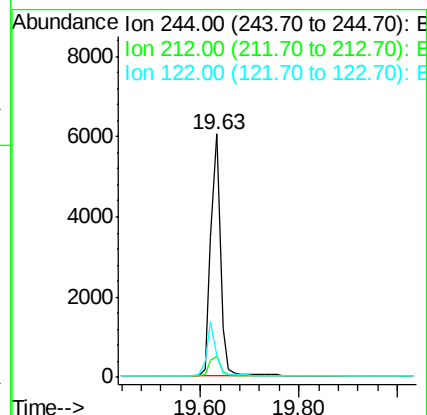
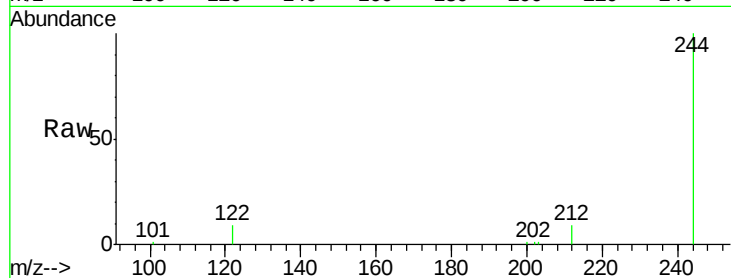
Tgt Ion:244 Resp: 8163

Ion Ratio Lower Upper

244 100

212 8.8 7.1 10.7

122 9.0 5.9 8.9#



#22

Benzo(a)anthracene

Concen: 0.87 ng

RT: 21.17 min Scan# 1872

Delta R.T. 0.00 min

Lab File: BM001049.D

Acq: 18 Apr 2015 07:26

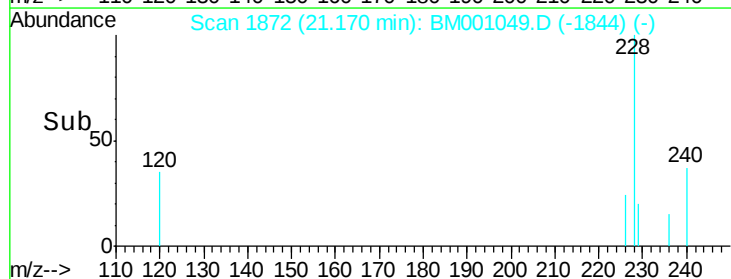
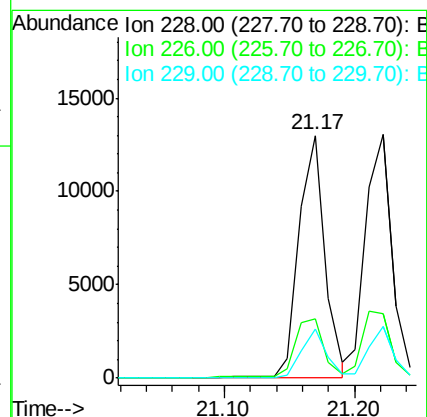
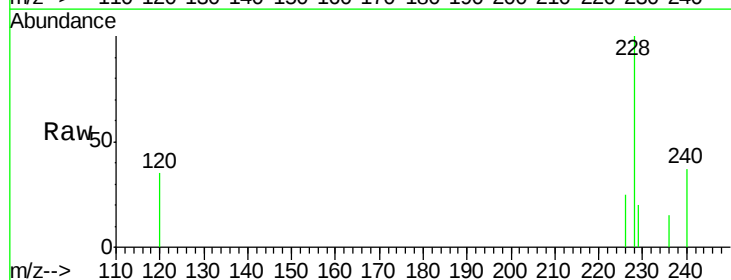
Tgt Ion:228 Resp: 17662

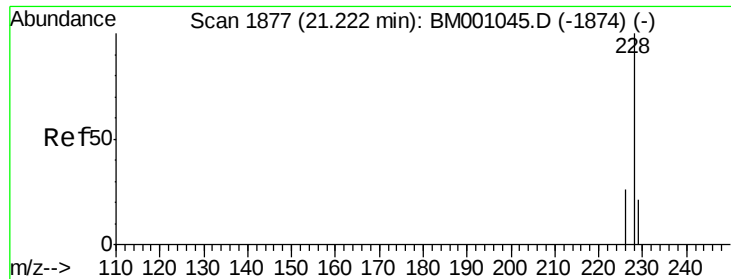
Ion Ratio Lower Upper

228 100

226 24.6 19.0 28.6

229 20.4 16.8 25.2





#23

Chrysene

Concen: 0.89 ng

RT: 21.22 min Scan# 1877

Delta R.T. 0.00 min

Lab File: BM001049.D

Acq: 18 Apr 2015 07:26

Instrument :

BNA_M

ClientSampleId :

ICVBM041815

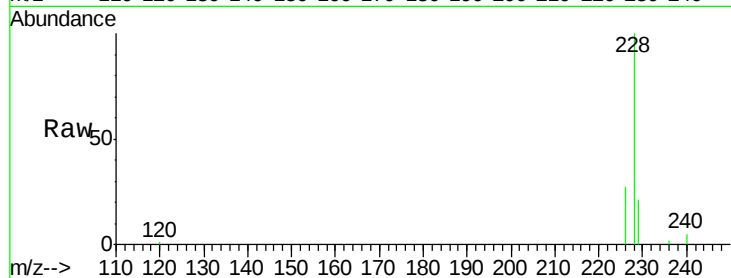
Tgt Ion:228 Resp: 18765

Ion Ratio Lower Upper

228 100

226 26.6 20.6 31.0

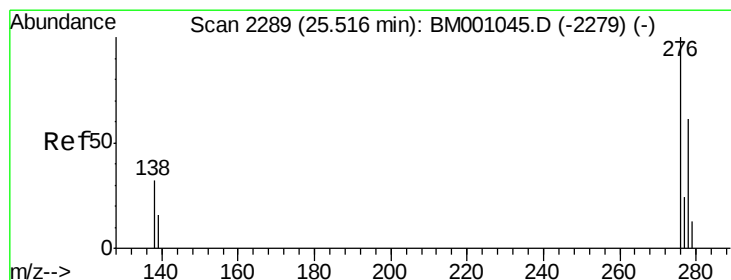
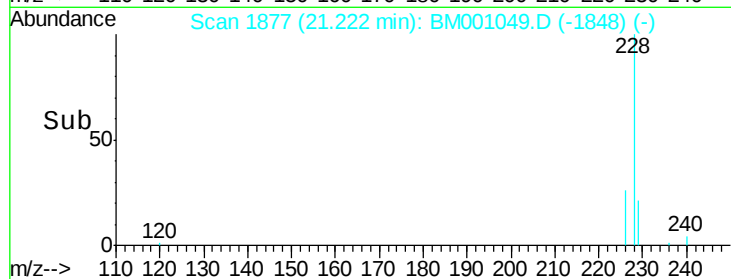
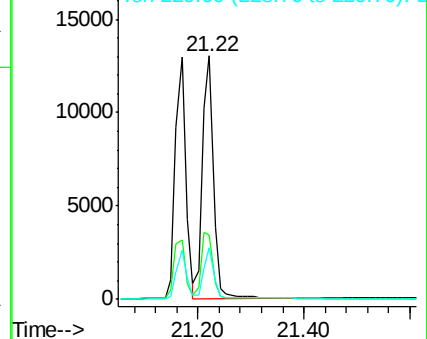
229 20.9 17.2 25.8



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



#24

Indeno(1,2,3-cd)pyrene

Concen: 0.88 ng

RT: 25.52 min Scan# 2289

Delta R.T. 0.00 min

Lab File: BM001049.D

Acq: 18 Apr 2015 07:26

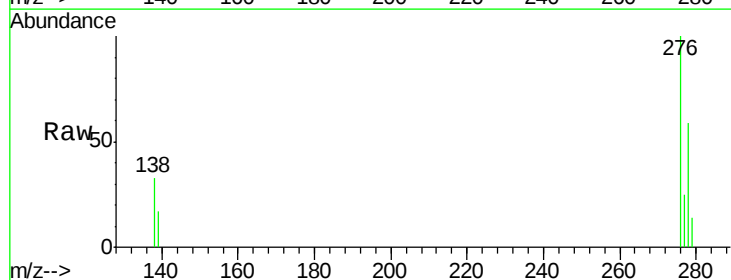
Tgt Ion:276 Resp: 19333

Ion Ratio Lower Upper

276 100

138 33.2 26.3 39.5

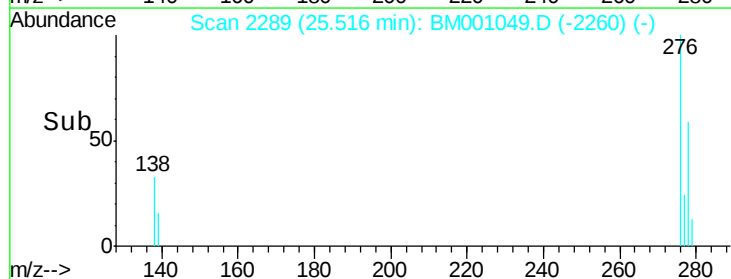
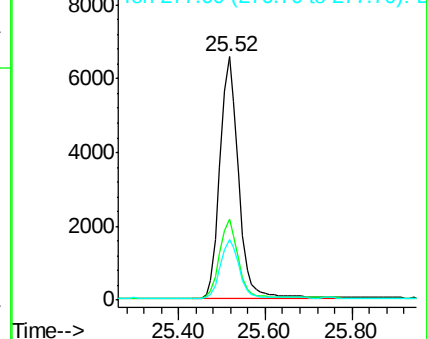
277 24.3 19.5 29.3

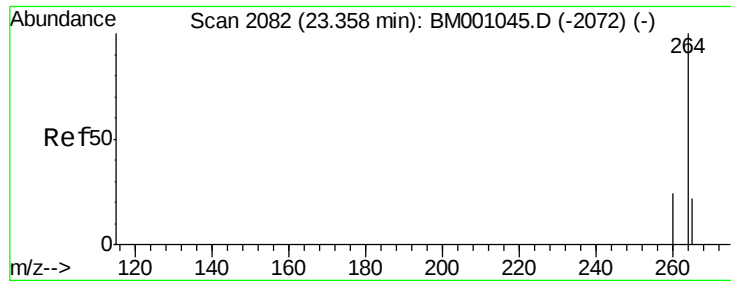


Abundance Ion 276.00 (275.70 to 276.70): E

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# 2082

Delta R.T. 0.00 min

Lab File: BM001049.D

Acq: 18 Apr 2015 07:26

Instrument :

BNA_M

ClientSampleId :

ICVBM041815

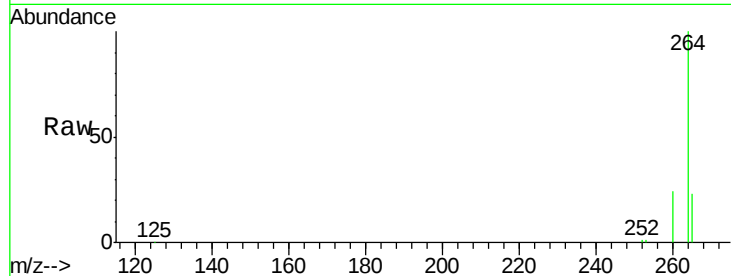
Tgt Ion:264 Resp: 55791

Ion Ratio Lower Upper

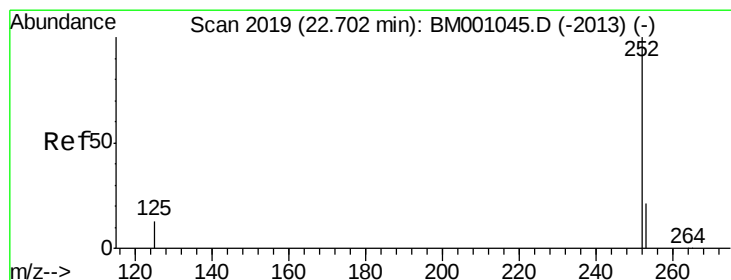
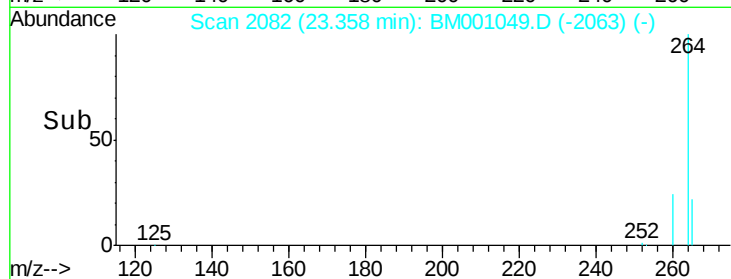
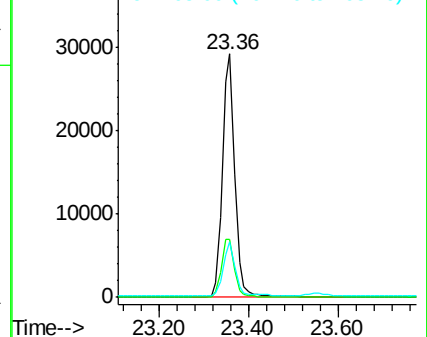
264 100

260 23.8 19.0 28.6

265 22.7 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: 0.88 ng

RT: 22.70 min Scan# 2019

Delta R.T. 0.00 min

Lab File: BM001049.D

Acq: 18 Apr 2015 07:26

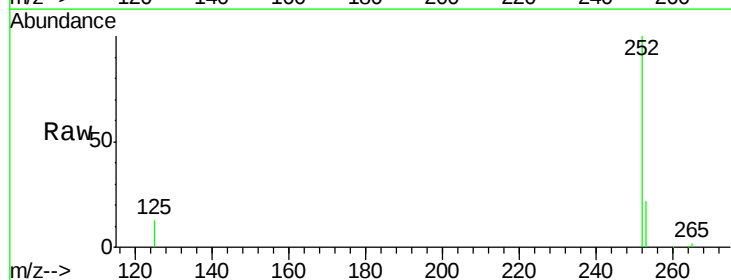
Tgt Ion:252 Resp: 17850

Ion Ratio Lower Upper

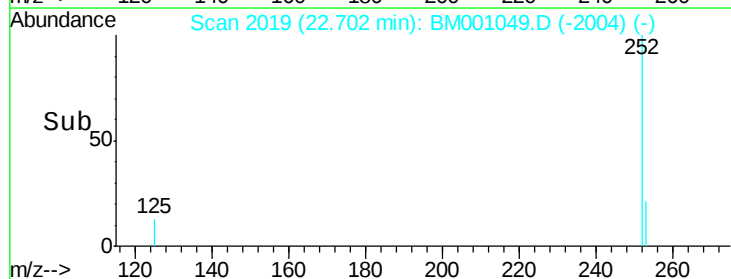
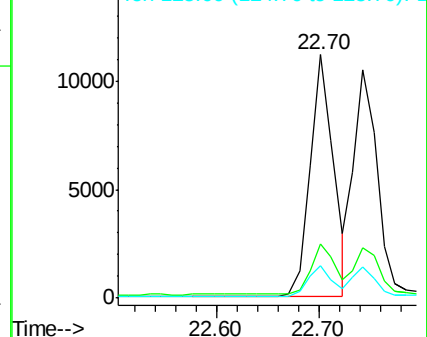
252 100

253 22.3 18.2 27.2

125 13.3 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: 0.90 ng

RT: 22.74 min Scan# 2023

Delta R.T. 0.00 min

Lab File: BM001049.D

Acq: 18 Apr 2015 07:26

Instrument :

BNA_M

ClientSampleId :

ICVBM041815

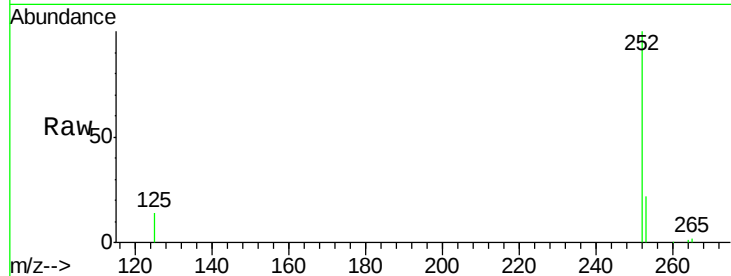
Tgt Ion:252 Resp: 17487

Ion Ratio Lower Upper

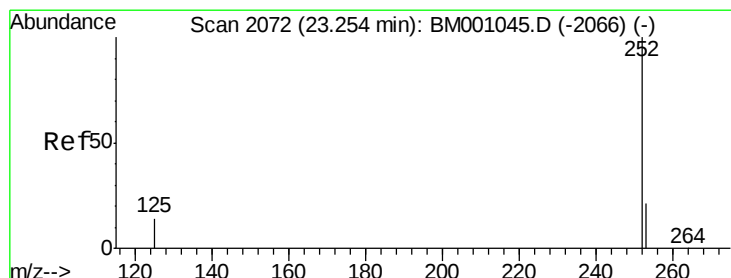
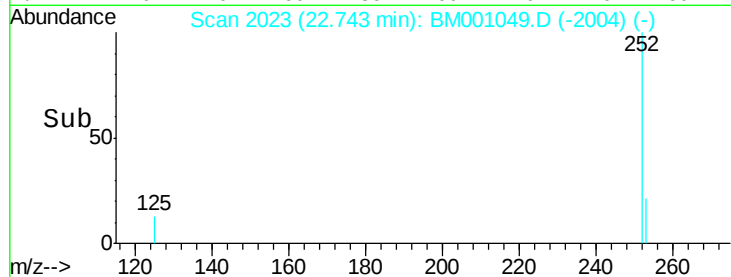
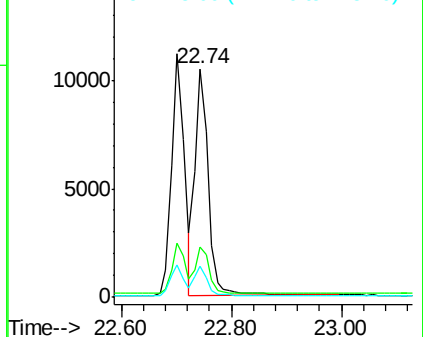
252 100

253 22.2 18.3 27.5

125 13.7 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: 0.87 ng

RT: 23.25 min Scan# 2072

Delta R.T. 0.00 min

Lab File: BM001049.D

Acq: 18 Apr 2015 07:26

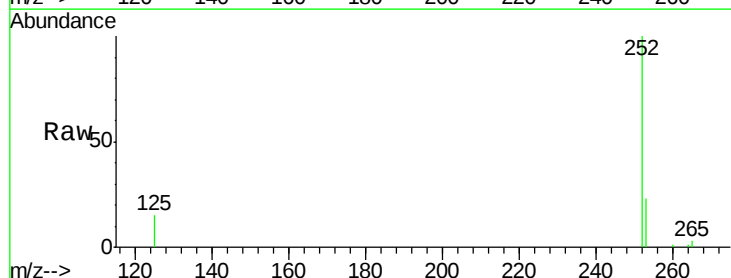
Tgt Ion:252 Resp: 15337

Ion Ratio Lower Upper

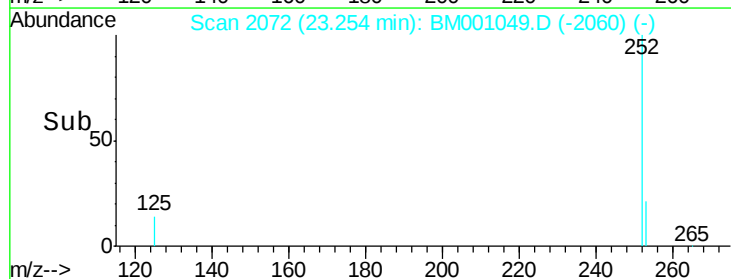
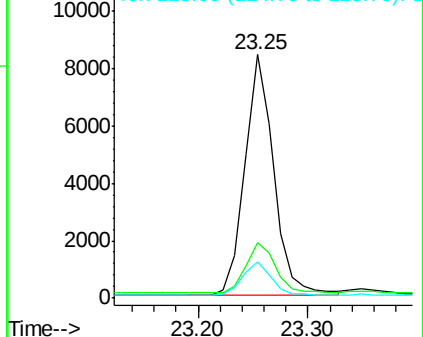
252 100

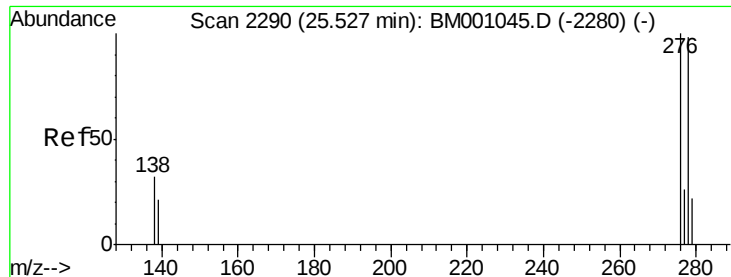
253 22.7 18.6 27.8

125 15.0 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: 0.88 ng

RT: 25.53 min Scan# 2290

Delta R.T. 0.00 min

Lab File: BM001049.D

Acq: 18 Apr 2015 07:26

Instrument :

BNA_M

ClientSampleId :

ICVBM041815

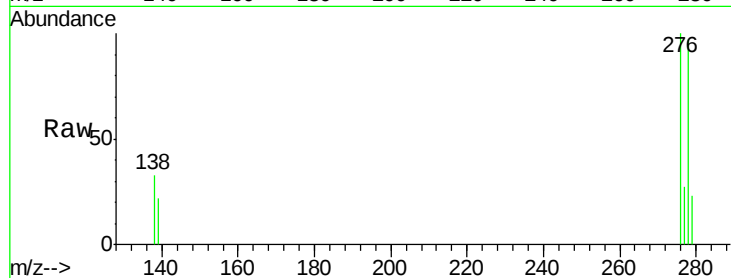
Tgt Ion:278 Resp: 15226

Ion Ratio Lower Upper

278 100

139 22.6 18.2 27.2

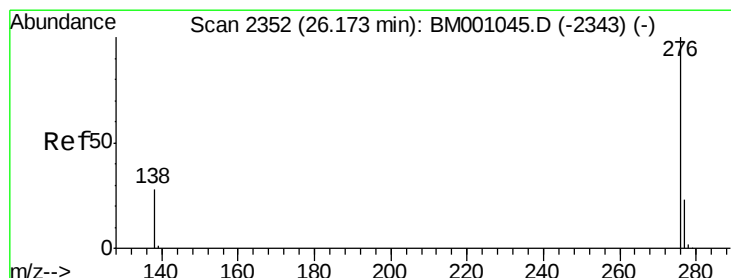
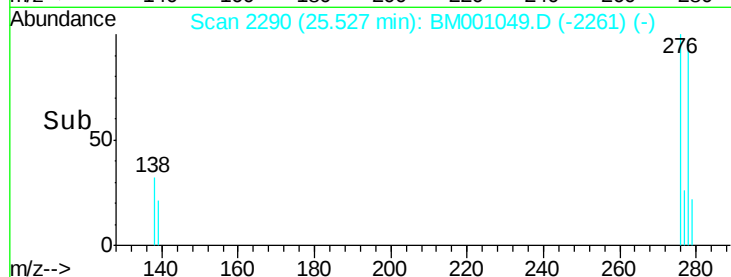
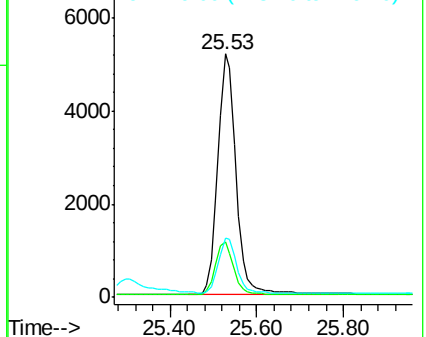
279 24.1 19.1 28.7



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: 0.88 ng

RT: 26.17 min Scan# 2352

Delta R.T. 0.00 min

Lab File: BM001049.D

Acq: 18 Apr 2015 07:26

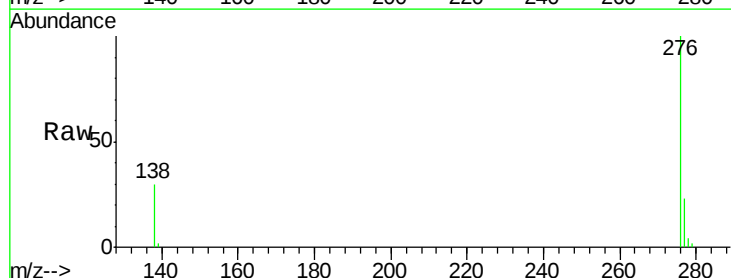
Tgt Ion:276 Resp: 16224

Ion Ratio Lower Upper

276 100

277 23.3 19.0 28.4

138 29.8 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

