

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM033115\
 Data File : BM000768.D
 Acq On : 01 Apr 2015 00:13
 Operator : TP/IZ
 Sample : SSTDICV001
 Misc : MDL-SOIL-BLK
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 ICVBM033115

Quant Time: Apr 01 15:08:09 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	7.62	152	36692	5.00	ng	0.00
4) Naphthalene-d8	10.40	136	126557	5.00	ng	0.00
8) Acenaphthene-d10	14.28	164	62160	5.00	ng	0.00
13) Phenanthrene-d10	17.01	188	132608	5.00	ng	0.00
19) Chrysene-d12	21.21	240	112995	5.00	ng	0.00
25) Perylene-d12	23.40	264	101840	5.00	ng	0.00

System Monitoring Compounds						
5) Nitrobenzene-d5	8.77	82	6597	1.02	ng	0.00
9) 2-Fluorobiphenyl	12.89	172	20179	1.05	ng	0.00
21) Terphenyl-d14	19.66	244	14277	1.05	ng	0.00

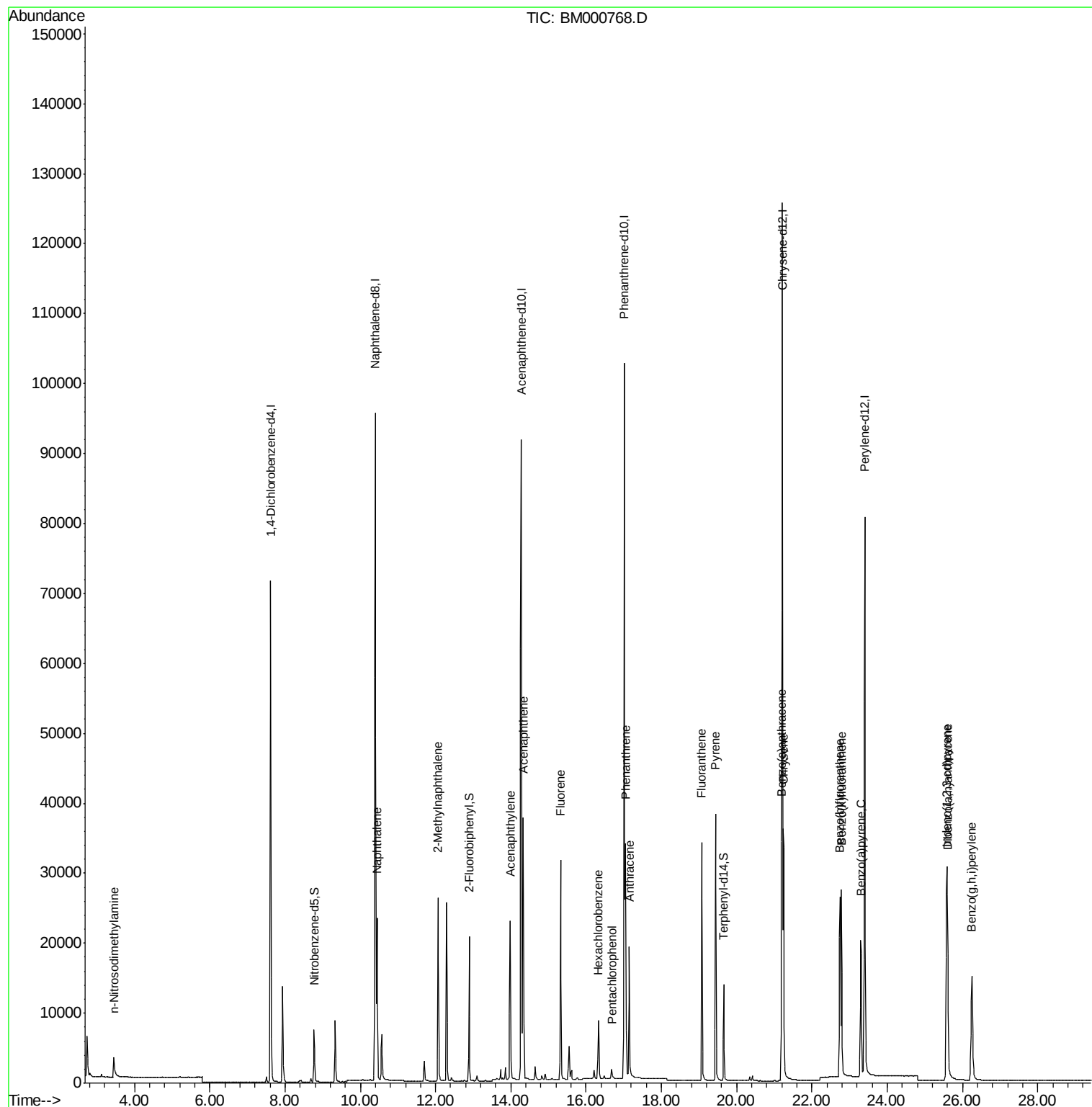
Target Compounds				Qvalue		
3) n-Nitrosodimethylamine	3.44	42	3558	0.99	ng	# 97
6) Naphthalene	10.45	128	30725	1.04	ng	100
7) 2-Methylnaphthalene	12.07	142	19342	1.04	ng	98
10) Acenaphthylene	13.98	152	28578	1.04	ng	100
11) Acenaphthene	14.33	154	19147	1.00	ng	98
12) Fluorene	15.32	166	22308	1.05	ng	99
14) Hexachlorobenzene	16.33	284	8094	1.04	ng	# 98
15) Pentachlorophenol	16.68	266	1377	1.02	ng	98
16) Phenanthrene	17.05	178	37201	1.02	ng	100
17) Anthracene	17.15	178	30449	1.00	ng	99
18) Fluoranthene	19.08	202	36174	1.01	ng	100
20) Pyrene	19.44	202	38409	1.04	ng	99
22) Benzo(a)anthracene	21.19	228	32732	1.01	ng	# 89
23) Chrysene	21.24	228	35164	1.04	ng	99
24) Indeno(1,2,3-cd)pyrene	25.58	276	36419	1.04	ng	100
26) Benzo(b)fluoranthene	22.74	252	33710	1.05	ng	100
27) Benzo(k)fluoranthene	22.79	252	31931	1.04	ng	99
28) Benzo(a)pyrene	23.30	252	28610	1.04	ng	96
29) Dibenzo(a,h)anthracene	25.60	278	28602	1.05	ng	99
30) Benzo(g,h,i)perylene	26.25	276	30645	1.04	ng	98

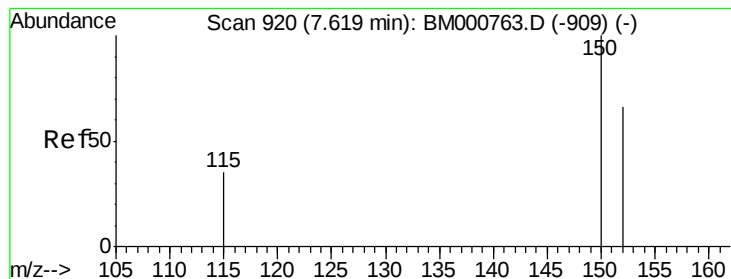
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.62 min Scan# 920

Delta R.T. -0.00 min

Lab File: BM000768.D

Acq: 01 Apr 2015 00:13

Instrument :

BNA_M

ClientSampleId :

ICVBM033115

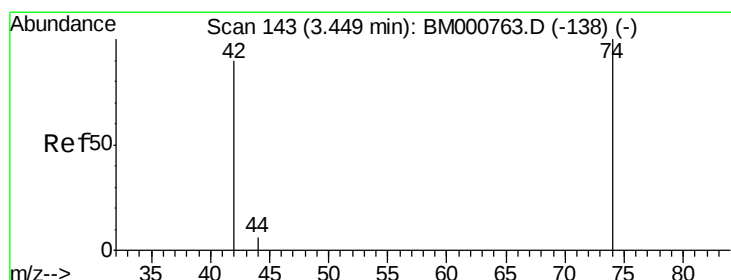
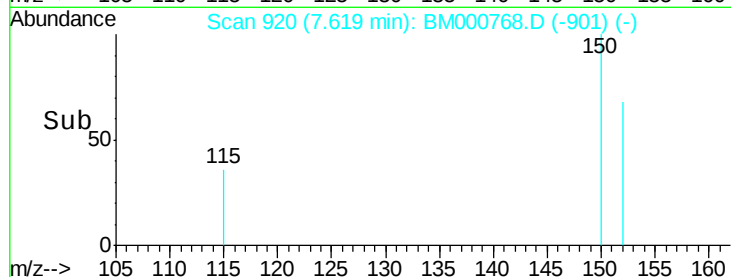
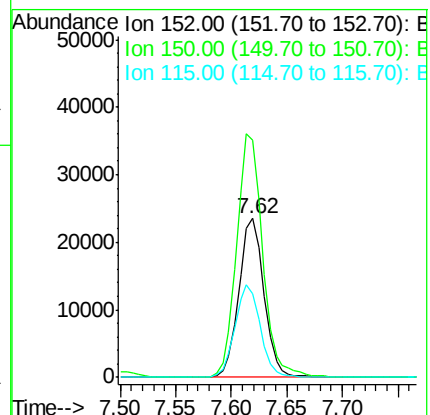
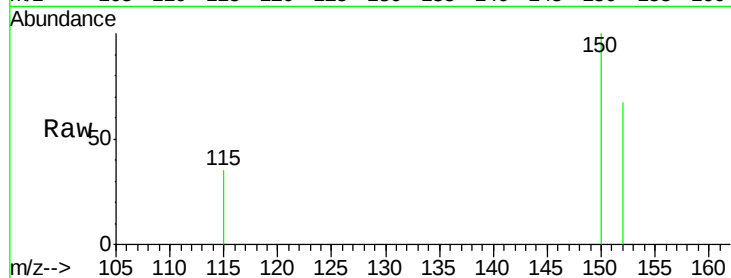
Tgt Ion:152 Resp: 36692

Ion Ratio Lower Upper

152 100

150 149.7 120.8 181.2

115 52.9 42.7 64.1



#3

n-Nitrosodimethylamine

Concen: 0.99 ng

RT: 3.44 min Scan# 142

Delta R.T. -0.00 min

Lab File: BM000768.D

Acq: 01 Apr 2015 00:13

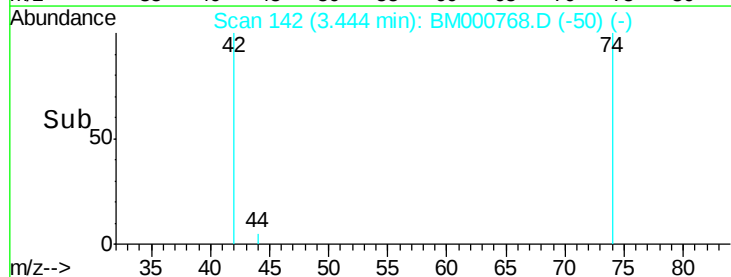
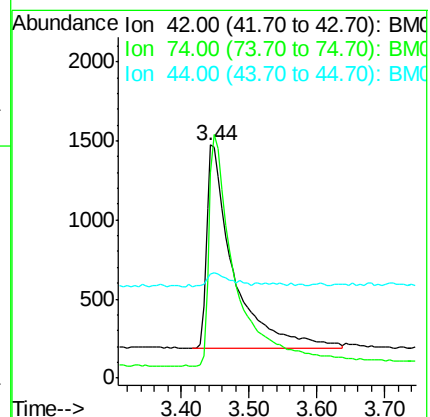
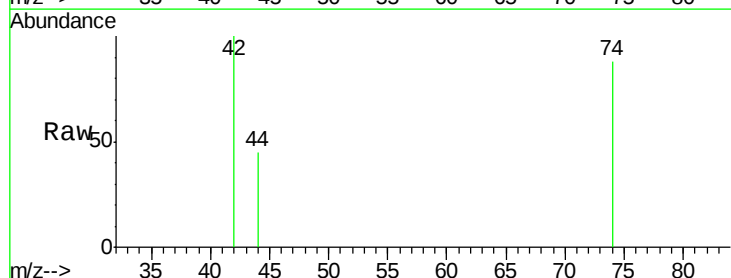
Tgt Ion: 42 Resp: 3558

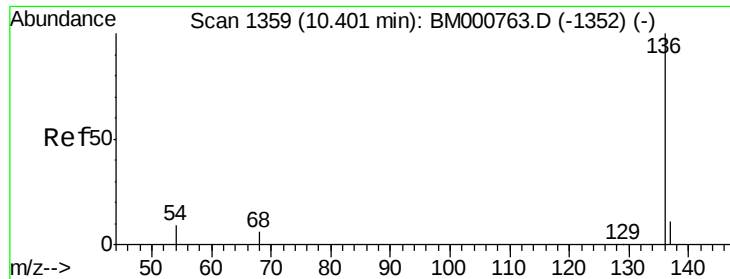
Ion Ratio Lower Upper

42 100

74 120.1 93.6 140.4

44 5.6 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: BM000768.D

Acq: 01 Apr 2015 00:13

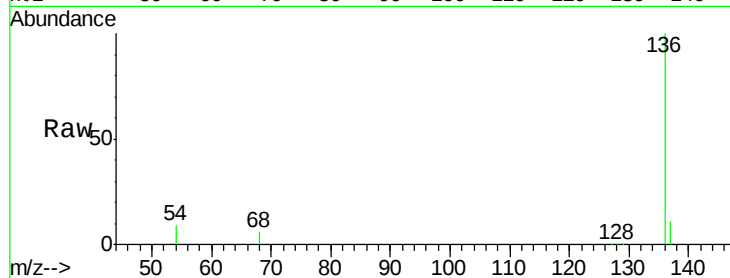
Instrument :

BNA_M

ClientSampleId :

ICVBM033115

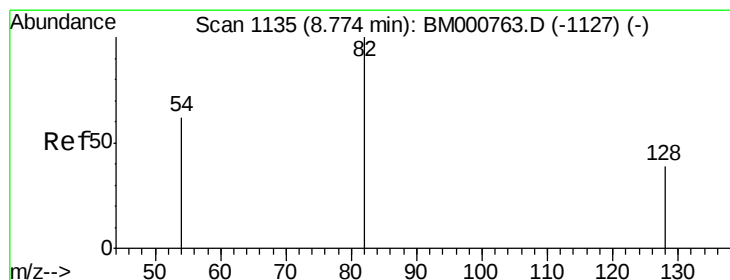
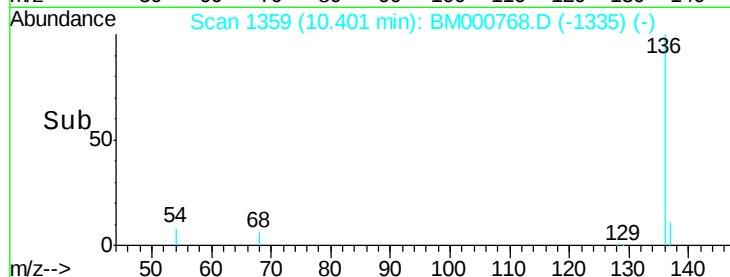
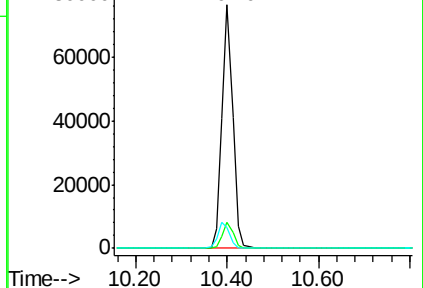
Tgt Ion:	136	Resp:	126557
Ion	Ratio	Lower	Upper
136	100		
137	10.7	8.6	12.8
54	8.5	7.0	10.6



Abundance Ion 136.00 (135.70 to 136.70): B

Ion 137.00 (136.70 to 137.70): B

Ion 54.00 (53.70 to 54.70): B



#5

Nitrobenzene-d5

Concen: 1.02 ng

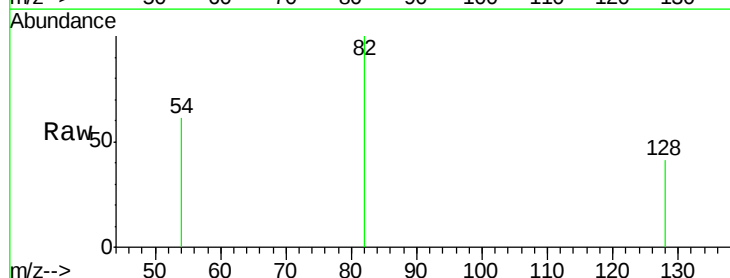
RT: 8.77 min Scan# 1135

Delta R.T. 0.00 min

Lab File: BM000768.D

Acq: 01 Apr 2015 00:13

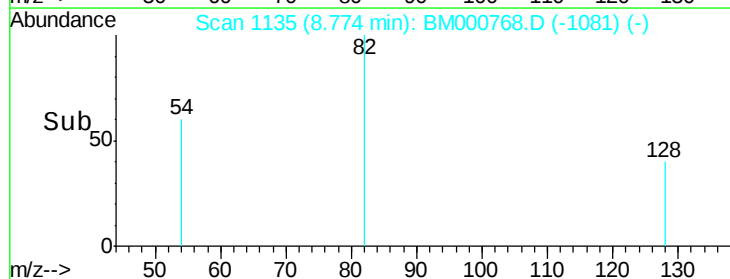
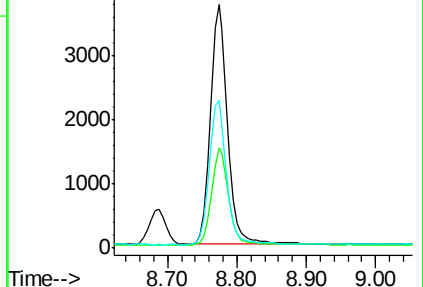
Tgt Ion:	82	Resp:	6597
Ion	Ratio	Lower	Upper
82	100		
128	41.2	32.2	48.2
54	60.6	50.2	75.4



Abundance Ion 82.00 (81.70 to 82.70): B

Ion 128.00 (127.70 to 128.70): B

Ion 54.00 (53.70 to 54.70): B





#6

Naphthalene

Concen: 1.04 ng

RT: 10.45 min Scan# 1363

Delta R.T. -0.00 min

Lab File: BM000768.D

Acq: 01 Apr 2015 00:13

Instrument :

BNA_M

ClientSampleId :

ICVBM033115

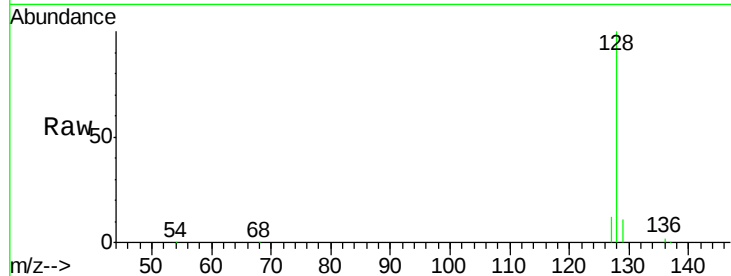
Tgt Ion:128 Resp: 30725

Ion Ratio Lower Upper

128 100

129 11.2 8.9 13.3

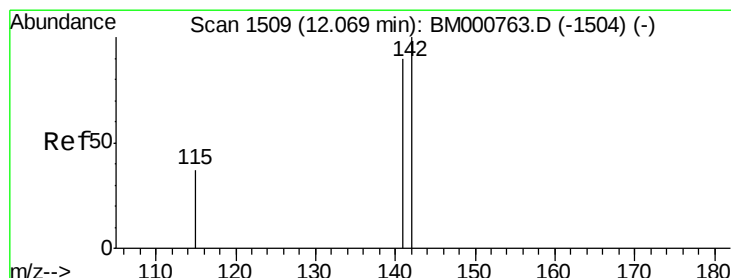
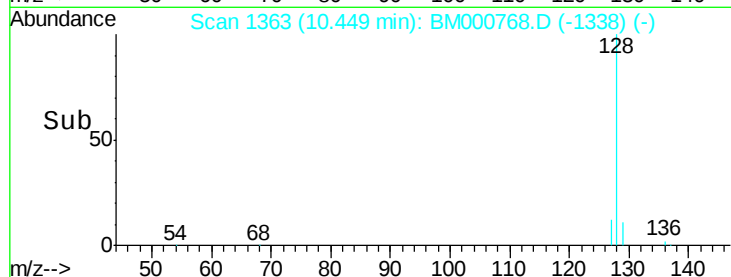
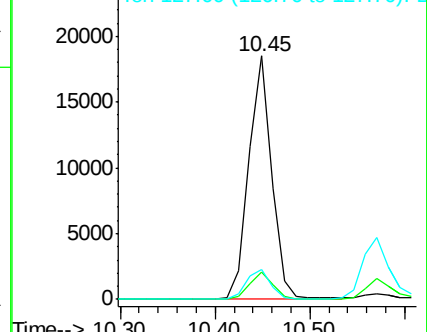
127 12.4 10.0 15.0



Abundance Ion 128.00 (127.70 to 128.70): E

25000 Ion 129.00 (128.70 to 129.70): E

20000 Ion 127.00 (126.70 to 127.70): E



#7

2-Methylnaphthalene

Concen: 1.04 ng

RT: 12.07 min Scan# 1509

Delta R.T. -0.00 min

Lab File: BM000768.D

Acq: 01 Apr 2015 00:13

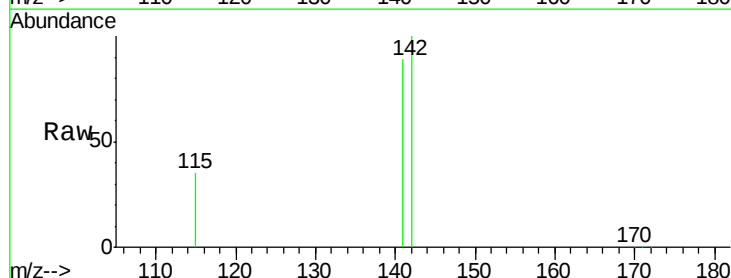
Tgt Ion:142 Resp: 19342

Ion Ratio Lower Upper

142 100

141 89.2 72.3 108.5

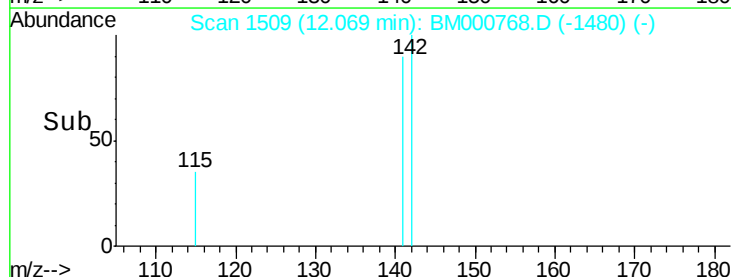
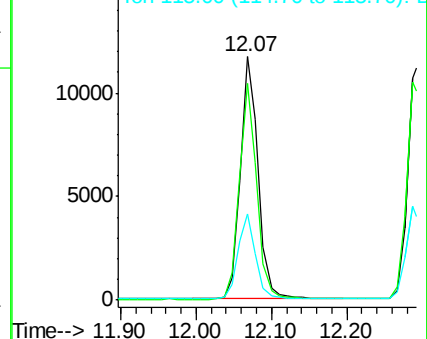
115 35.5 29.5 44.3



Abundance Ion 142.00 (141.70 to 142.70): E

15000 Ion 141.00 (140.70 to 141.70): E

10000 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: BM000768.D

Acq: 01 Apr 2015 00:13

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ICVBM033115

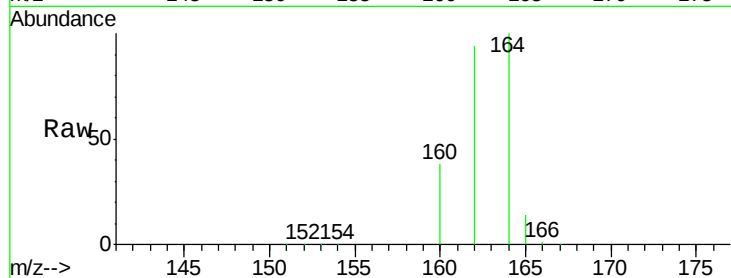
Tgt Ion:164 Resp: 62160

Ion Ratio Lower Upper

164 100

162 94.4 75.4 113.2

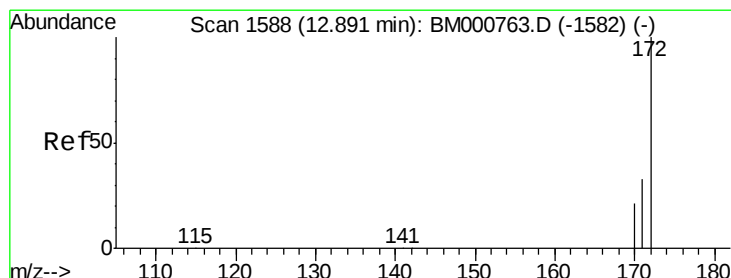
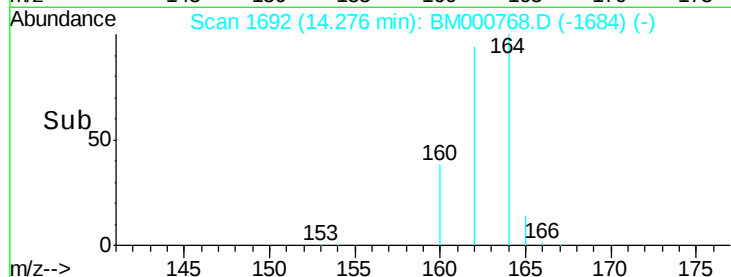
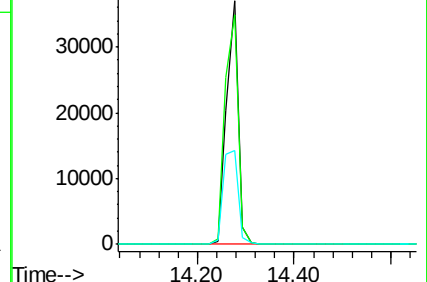
160 38.5 30.8 46.2



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: 1.05 ng

RT: 12.89 min Scan# 1588

Delta R.T. -0.00 min

Lab File: BM000768.D

Acq: 01 Apr 2015 00:13

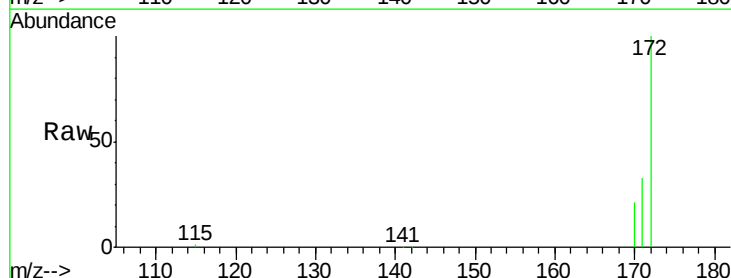
Tgt Ion:172 Resp: 20179

Ion Ratio Lower Upper

172 100

171 32.6 26.6 39.8

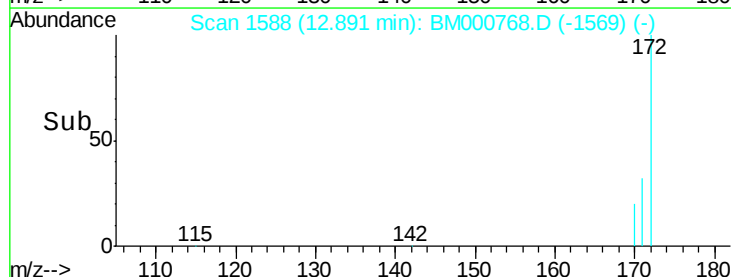
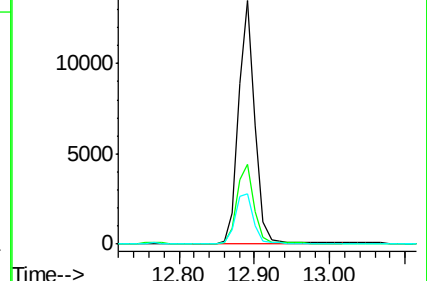
170 20.6 17.1 25.7



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: 1.04 ng

RT: 13.98 min Scan# 1675

Delta R.T. -0.00 min

Lab File: BM000768.D

Acq: 01 Apr 2015 00:13

Instrument :

BNA_M

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ICVBM033115

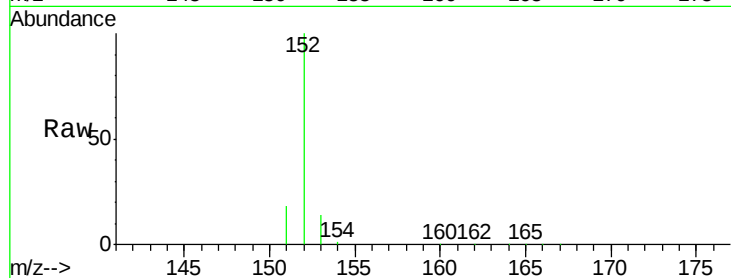
Tgt Ion:152 Resp: 28578

Ion Ratio Lower Upper

152 100

151 18.8 15.1 22.7

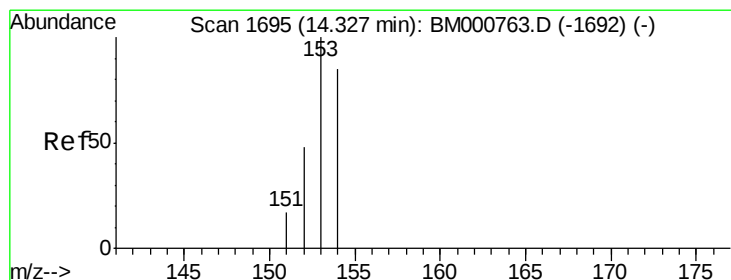
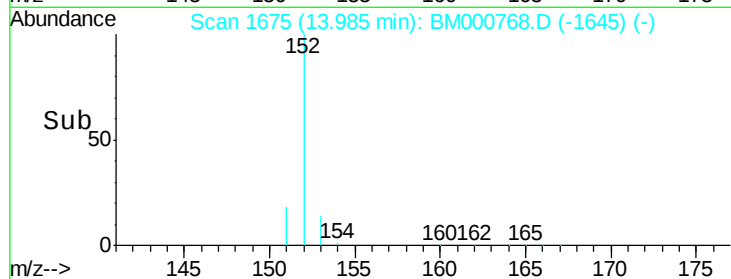
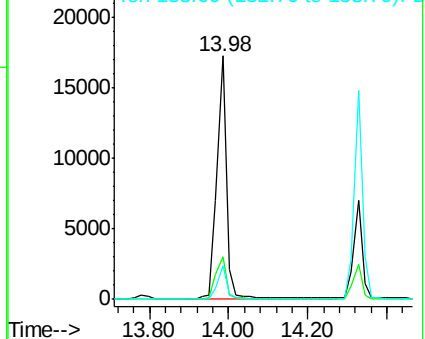
153 12.9 10.2 15.4



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: 1.00 ng

RT: 14.33 min Scan# 1695

Delta R.T. -0.00 min

Lab File: BM000768.D

Acq: 01 Apr 2015 00:13

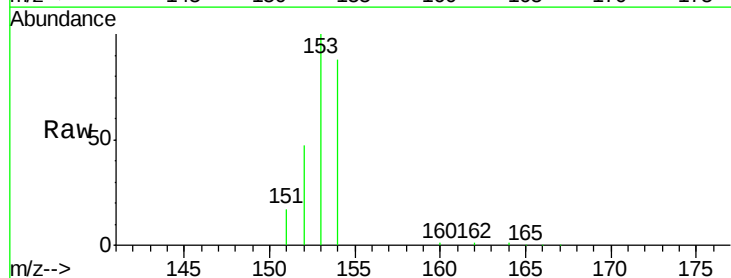
Tgt Ion:154 Resp: 19147

Ion Ratio Lower Upper

154 100

153 111.4 87.3 130.9

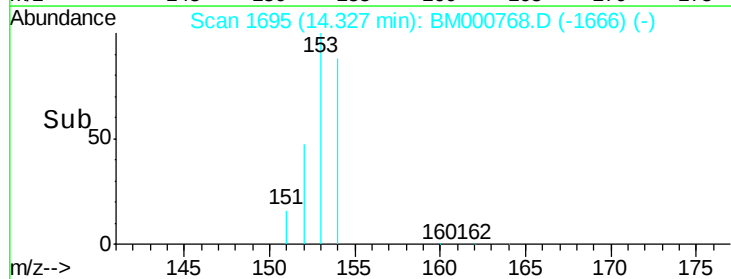
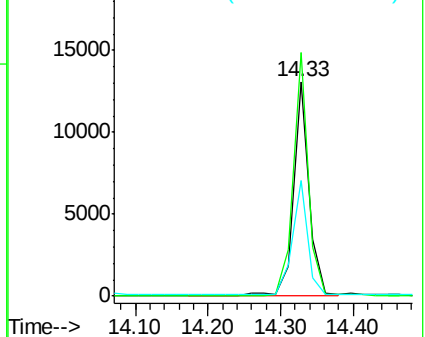
152 54.2 43.0 64.6



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: 1.05 ng

RT: 15.32 min Scan# 1753

Delta R.T. -0.00 min

Lab File: BM000768.D

Acq: 01 Apr 2015 00:13

Instrument :

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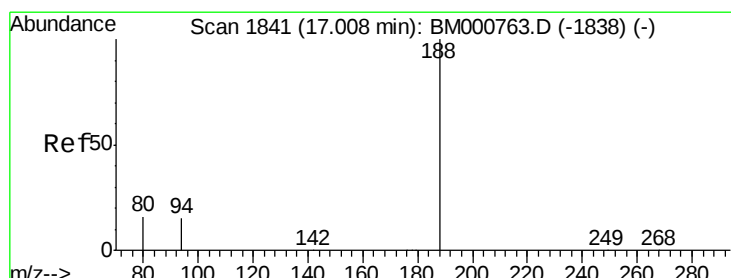
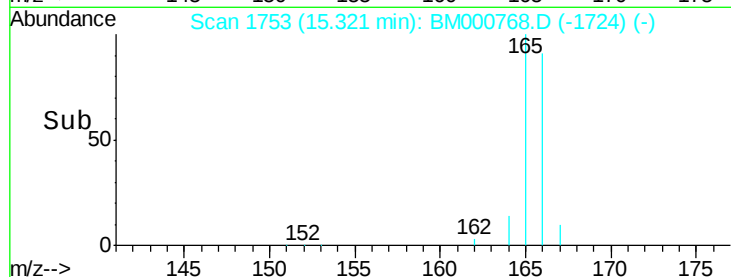
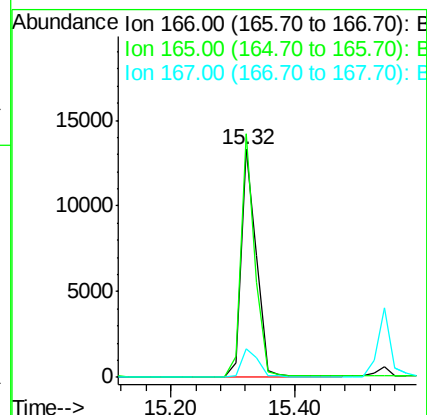
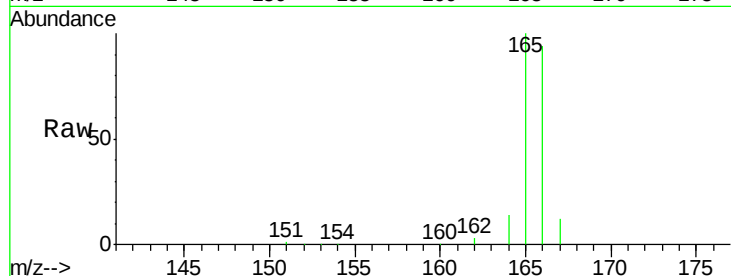
Tgt Ion:166 Resp: 22308

Ion Ratio Lower Upper

166 100

165 98.6 78.2 117.2

167 13.3 10.7 16.1



#13

Phenanthrene-d10

Concen: 5.00 ng

RT: 17.01 min Scan# 1841

Delta R.T. -0.00 min

Lab File: BM000768.D

Acq: 01 Apr 2015 00:13

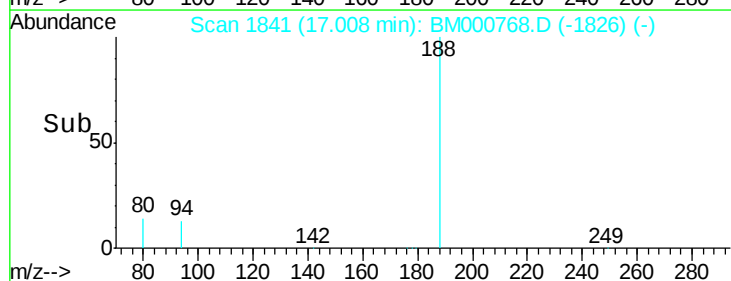
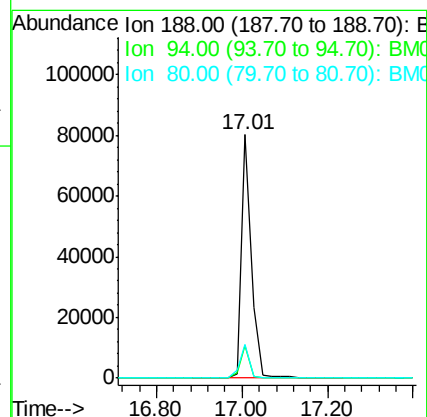
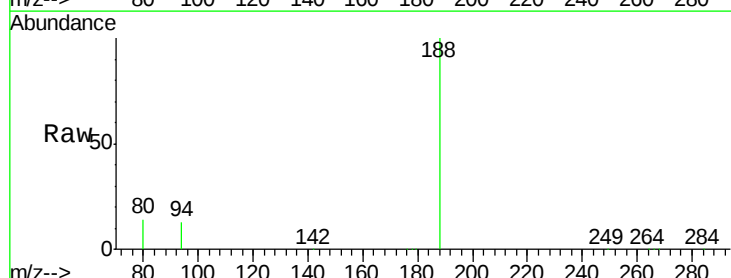
Tgt Ion:188 Resp: 132608

Ion Ratio Lower Upper

188 100

94 13.3 12.0 18.0

80 13.9 12.8 19.2

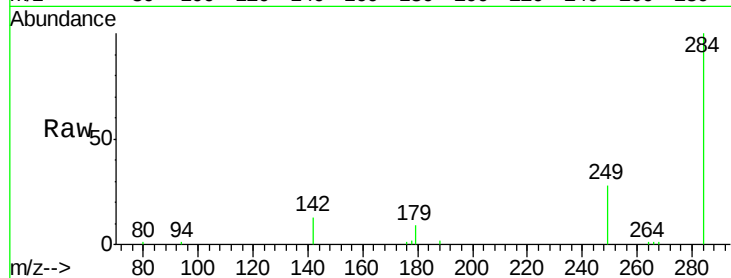




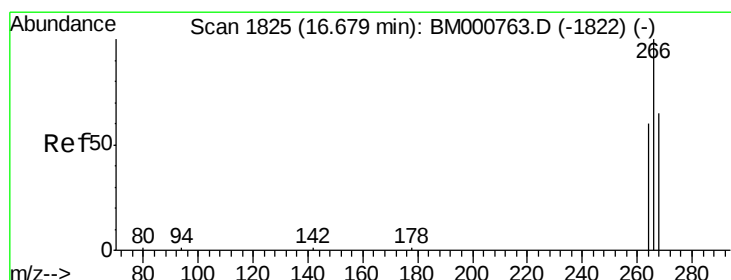
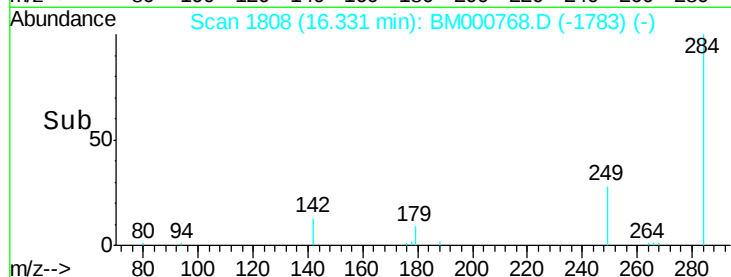
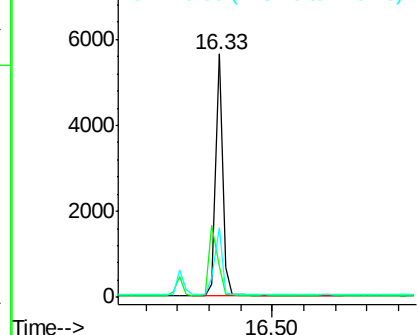
#14
Hexachlorobenzene
Concen: 1.04 ng
RT: 16.33 min Scan# 1808
Delta R.T. -0.00 min
Lab File: BM000768.D
Acq: 01 Apr 2015 00:13

Instrument :
BNA_M
ClientSampleId :
ICVBM033115

Tgt Ion: 284 Resp: 8094
Ion Ratio Lower Upper
284 100
142 0.0 0.0 0.0
249 30.6 25.2 37.8

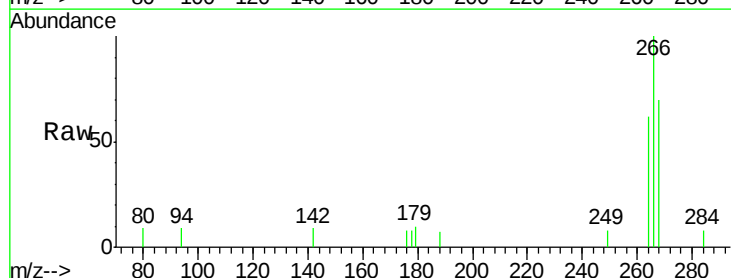


Abundance Ion 283.80 (283.50 to 284.50): E
Ion 142.00 (141.70 to 142.70): E
Ion 249.00 (248.70 to 249.70): E

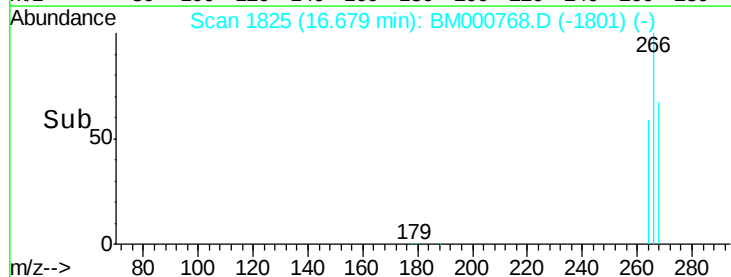
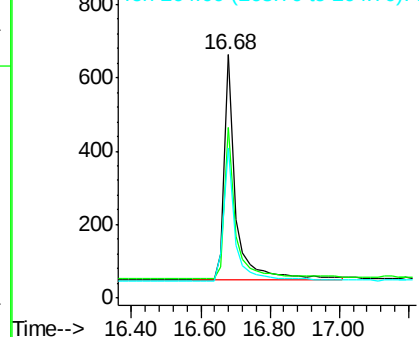


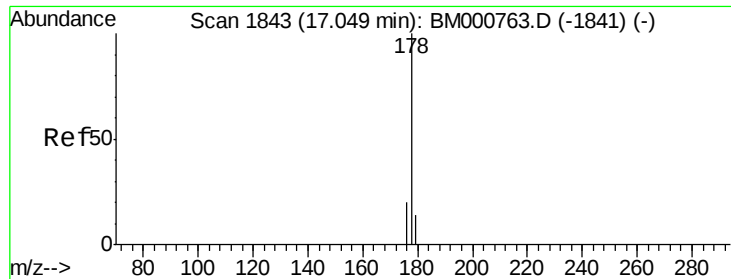
#15
Pentachlorophenol
Concen: 1.02 ng
RT: 16.68 min Scan# 1825
Delta R.T. 0.00 min
Lab File: BM000768.D
Acq: 01 Apr 2015 00:13

Tgt Ion: 266 Resp: 1377
Ion Ratio Lower Upper
266 100
268 69.8 55.0 82.6
264 61.7 51.0 76.4



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: 1.02 ng

RT: 17.05 min Scan# 1843

Delta R.T. -0.00 min

Lab File: BM000768.D

Acq: 01 Apr 2015 00:13

Instrument :

BNA_M

ClientSampleId :

ICVBM033115

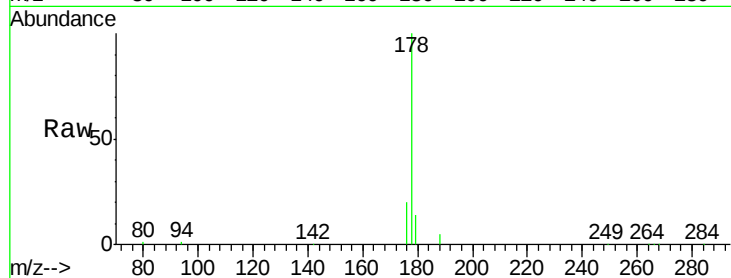
Tgt Ion:178 Resp: 37201

Ion Ratio Lower Upper

178 100

176 19.0 15.3 22.9

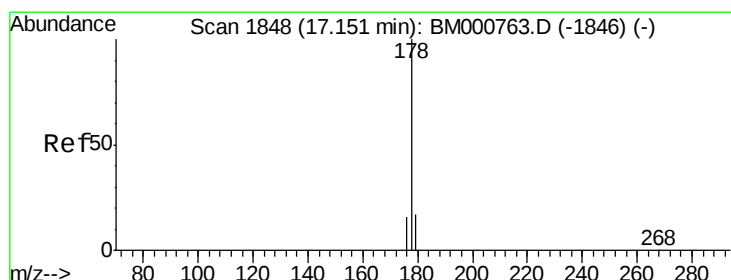
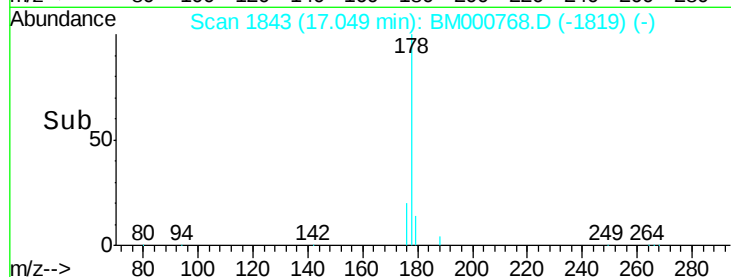
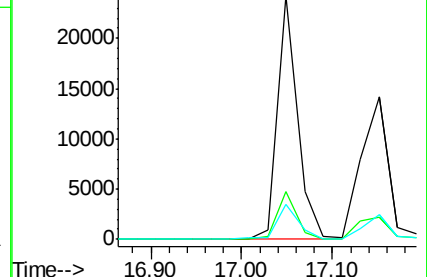
179 15.1 12.2 18.2



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: 1.00 ng

RT: 17.15 min Scan# 1848

Delta R.T. -0.00 min

Lab File: BM000768.D

Acq: 01 Apr 2015 00:13

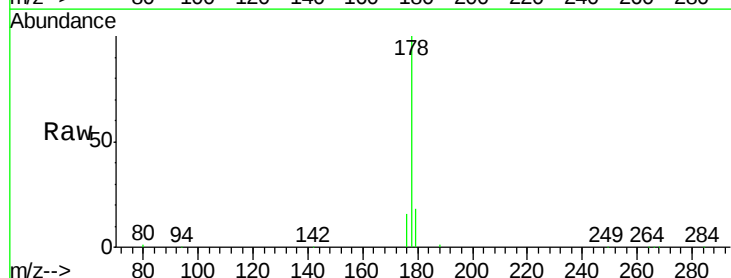
Tgt Ion:178 Resp: 30449

Ion Ratio Lower Upper

178 100

176 17.6 14.6 22.0

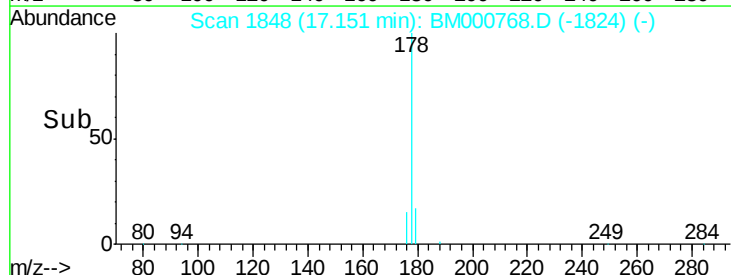
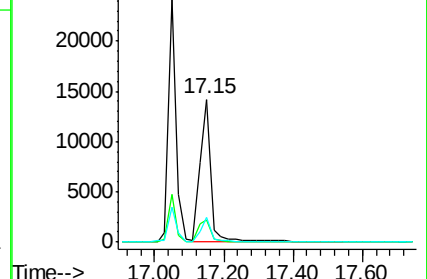
179 15.6 12.2 18.4



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

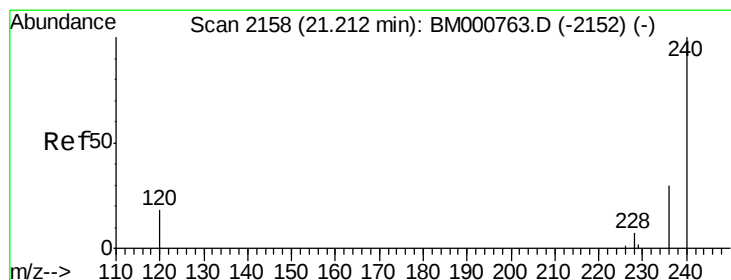
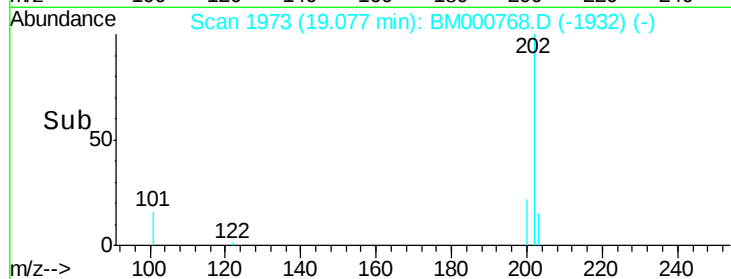
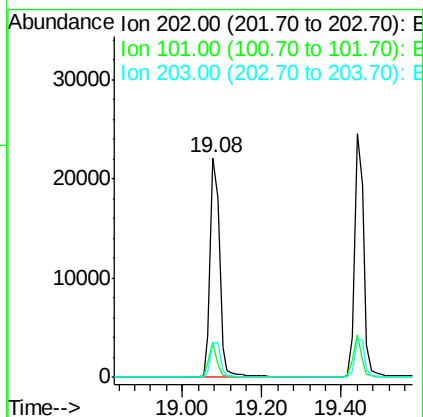
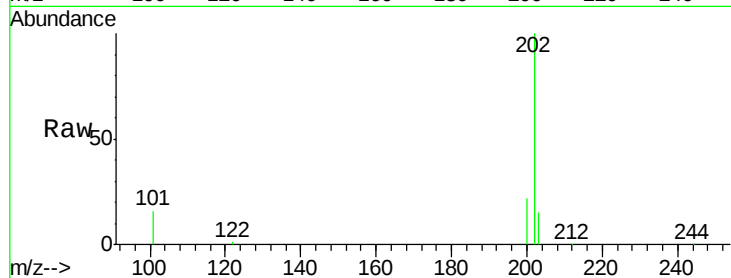




#18
 Fluoranthene
 Concen: 1.01 ng
 RT: 19.08 min Scan# 1973
 Delta R.T. -0.00 min
 Lab File: BM000768.D
 Acq: 01 Apr 2015 00:13

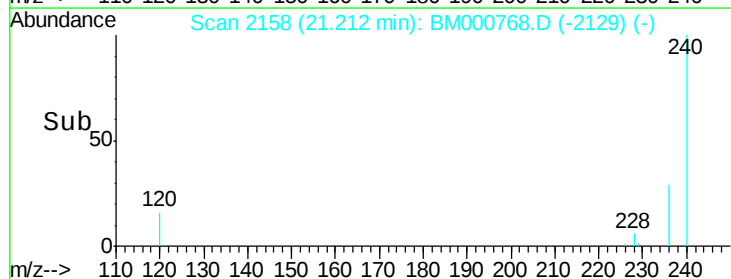
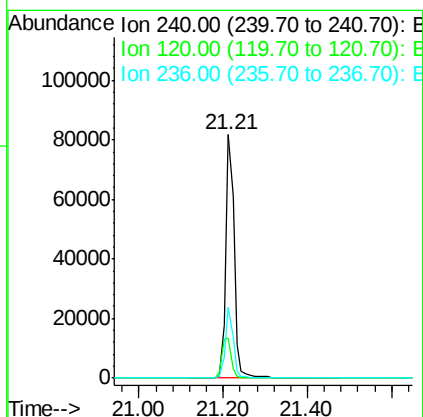
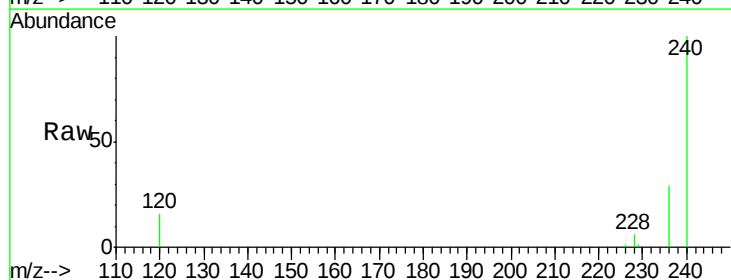
Instrument :
 BNA_M
 ClientSampleId :
 ICVBM033115

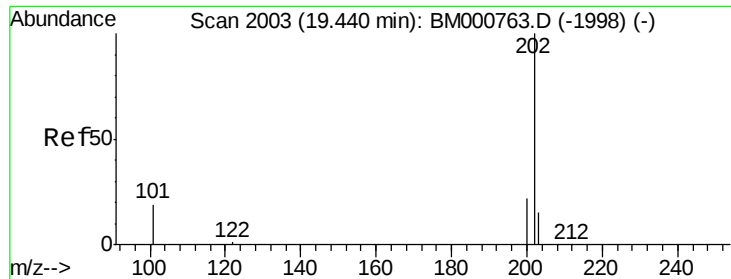
Tgt Ion:202 Resp: 36174
 Ion Ratio Lower Upper
 202 100
 101 13.3 10.5 15.7
 203 17.1 13.8 20.8



#19
 Chrysene-d12
 Concen: 5.00 ng
 RT: 21.21 min Scan# 2158
 Delta R.T. -0.00 min
 Lab File: BM000768.D
 Acq: 01 Apr 2015 00:13

Tgt Ion:240 Resp: 112995
 Ion Ratio Lower Upper
 240 100
 120 16.5 14.9 22.3
 236 29.1 24.2 36.4

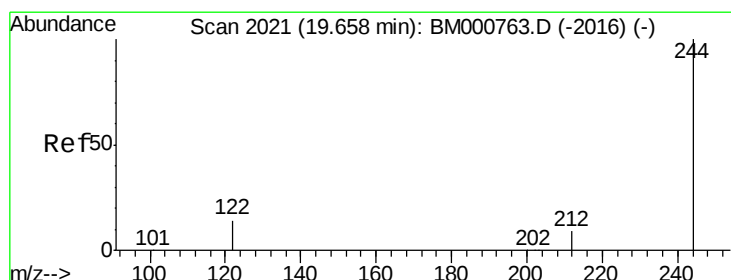
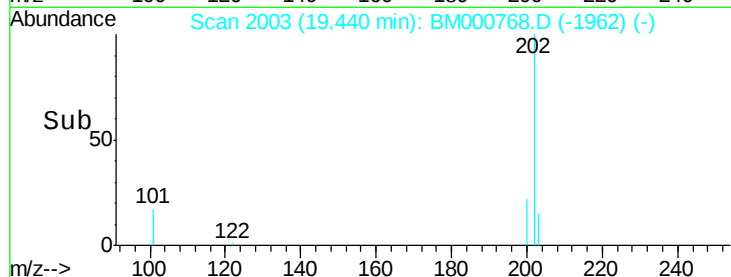
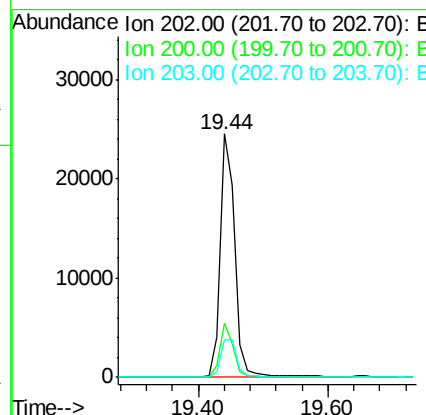
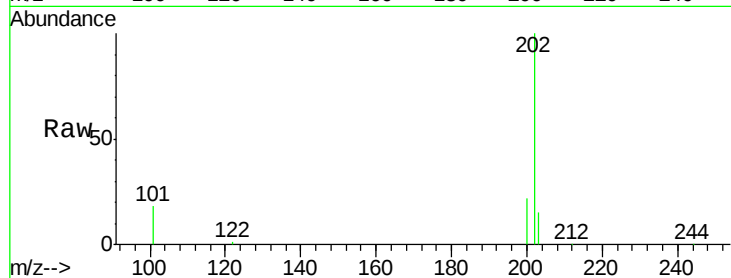




#20
Pyrene
Concen: 1.04 ng
RT: 19.44 min Scan# 2003
Delta R.T. -0.00 min
Lab File: BM000768.D
Acq: 01 Apr 2015 00:13

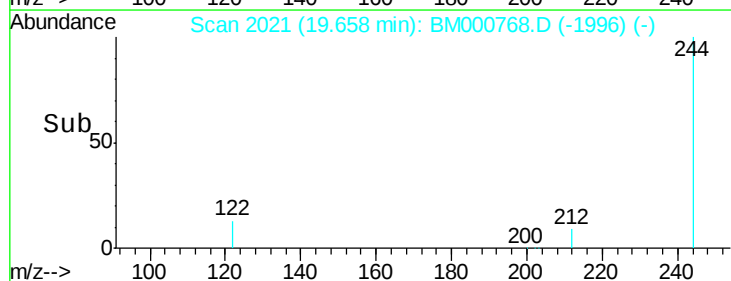
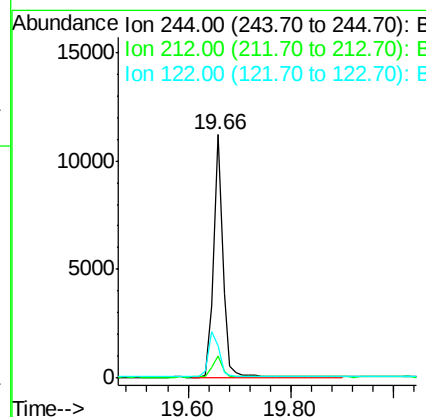
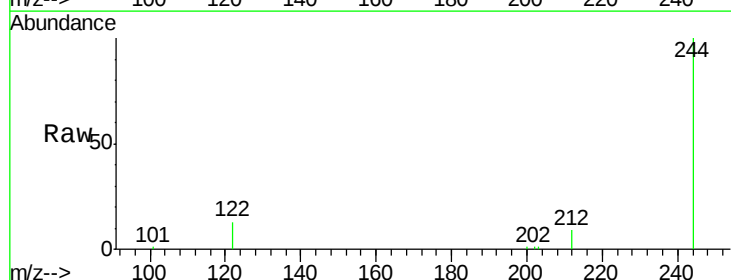
Instrument :
BNA_M
ClientSampleId :
ICVBM033115

Tgt Ion:202 Resp: 38409
Ion Ratio Lower Upper
202 100
200 20.3 16.2 24.2
203 17.1 13.9 20.9



#21
Terphenyl-d14
Concen: 1.05 ng
RT: 19.66 min Scan# 2021
Delta R.T. -0.00 min
Lab File: BM000768.D
Acq: 01 Apr 2015 00:13

Tgt Ion:244 Resp: 14277
Ion Ratio Lower Upper
244 100
212 9.3 7.8 11.6
122 13.3 11.8 17.8





#22

Benzo(a)anthracene

Concen: 1.01 ng

RT: 21.19 min Scan# 2156

Delta R.T. -0.01 min

Lab File: BM000768.D

Acq: 01 Apr 2015 00:13

Instrument :

BNA_M

ClientSampleId :

ICVBM033115

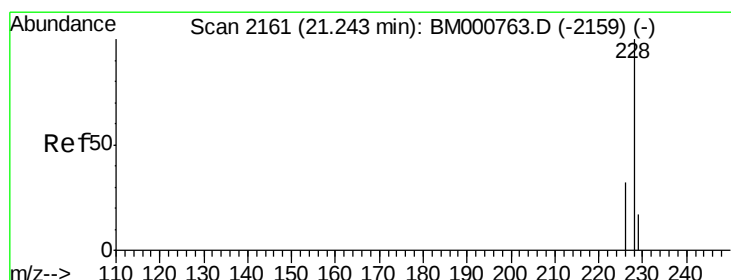
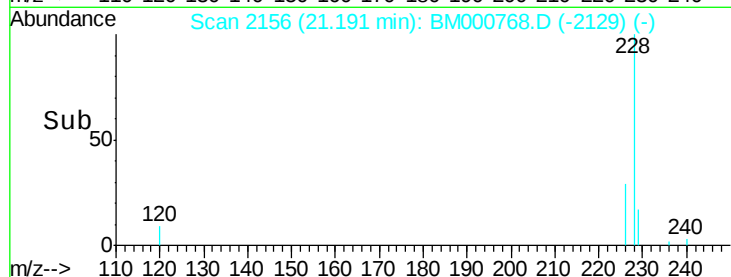
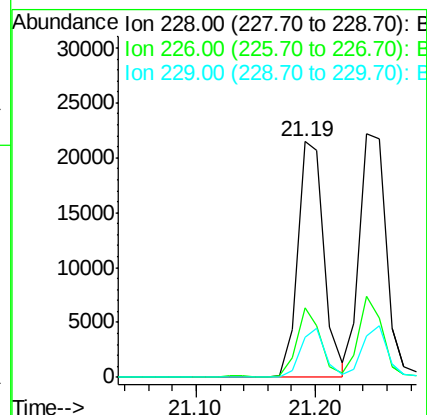
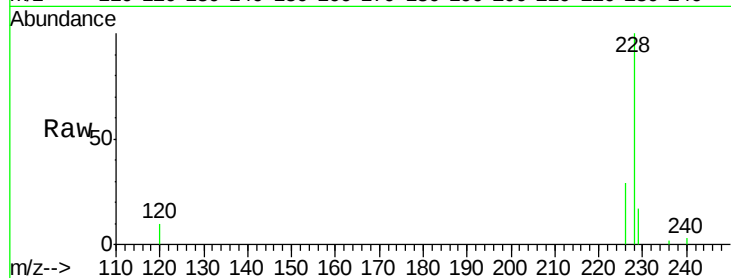
Tgt Ion:228 Resp: 32732

Ion Ratio Lower Upper

228 100

226 29.3 18.6 27.8#

229 17.2 17.2 25.8



#23

Chrysene

Concen: 1.04 ng

RT: 21.24 min Scan# 2161

Delta R.T. -0.00 min

Lab File: BM000768.D

Acq: 01 Apr 2015 00:13

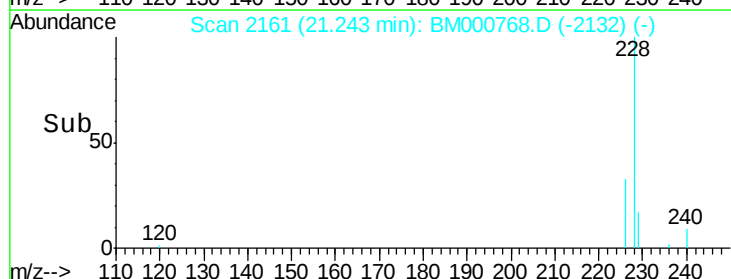
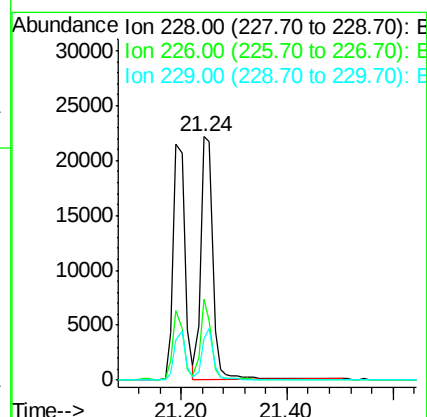
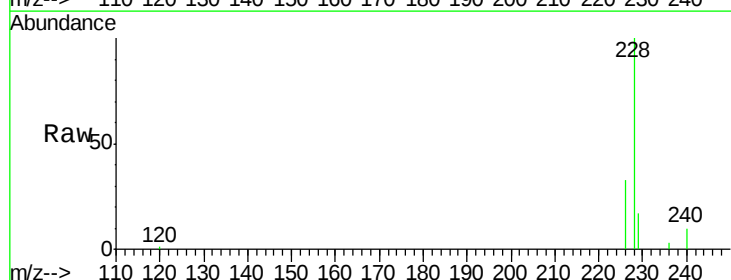
Tgt Ion:228 Resp: 35164

Ion Ratio Lower Upper

228 100

226 33.2 25.8 38.8

229 17.1 13.8 20.6





#24

Indeno(1,2,3-cd)pyrene

Concen: 1.04 ng

RT: 25.58 min Scan# 2577

Delta R.T. -0.01 min

Lab File: BM000768.D

Acq: 01 Apr 2015 00:13

Instrument :

BNA_M

ClientSampleId :

ICVBM033115

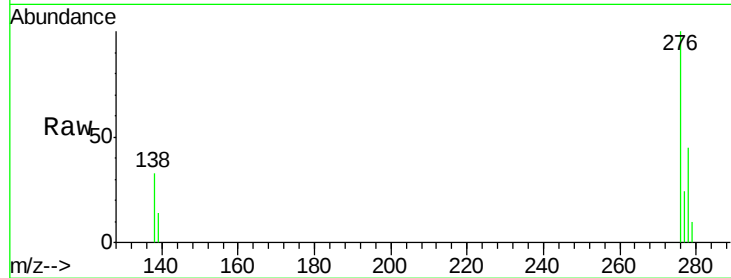
Tgt Ion:276 Resp: 36419

Ion Ratio Lower Upper

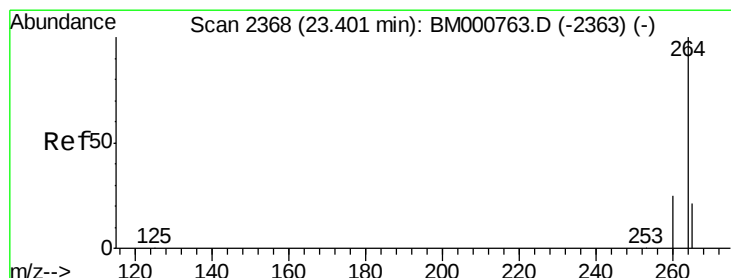
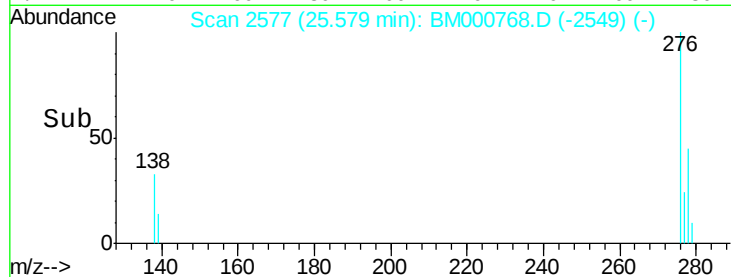
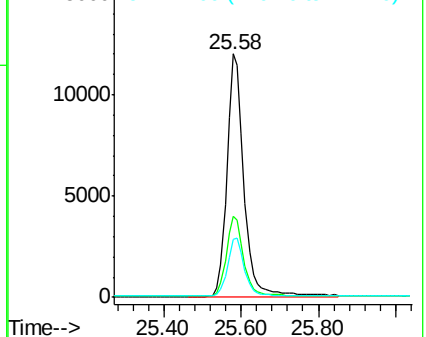
276 100

138 34.3 27.4 41.2

277 24.5 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: BM000768.D

Acq: 01 Apr 2015 00:13

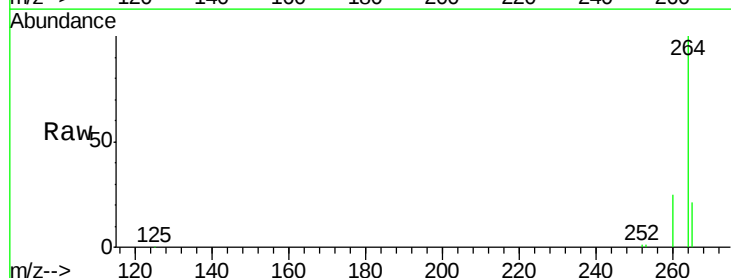
Tgt Ion:264 Resp: 101840

Ion Ratio Lower Upper

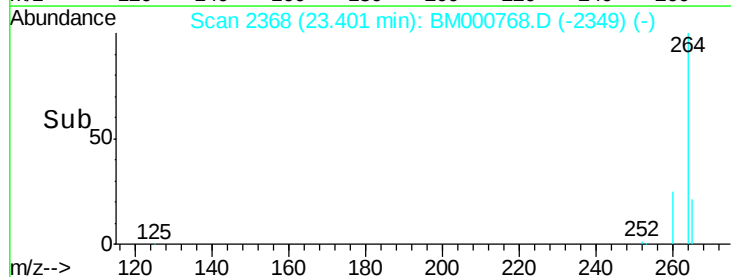
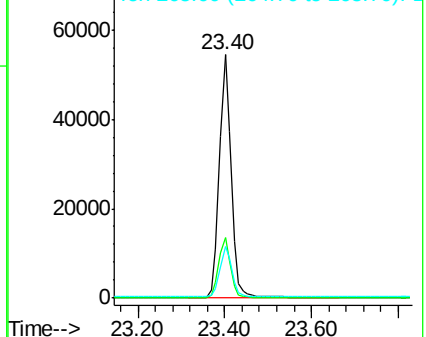
264 100

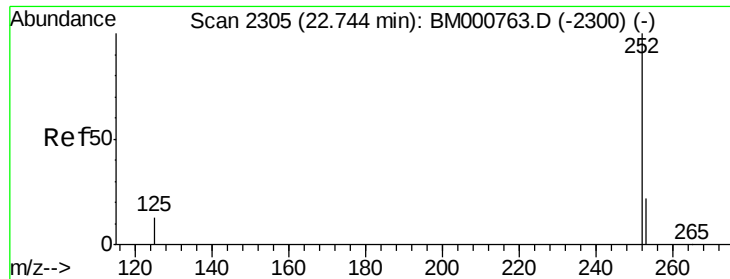
260 25.0 20.1 30.1

265 21.4 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: 1.05 ng

RT: 22.74 min Scan# 2305

Delta R.T. -0.00 min

Lab File: BM000768.D

Acq: 01 Apr 2015 00:13

Instrument :

BNA_M

ClientSampleId :

ICVBM033115

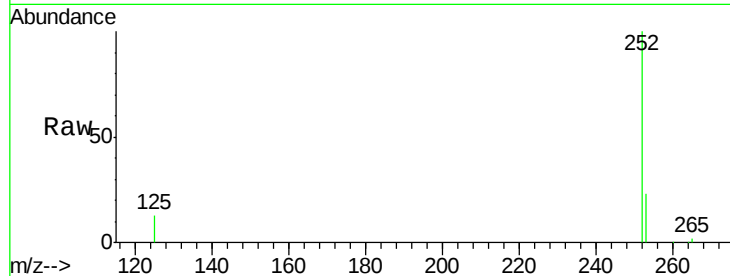
Tgt Ion:252 Resp: 33710

Ion Ratio Lower Upper

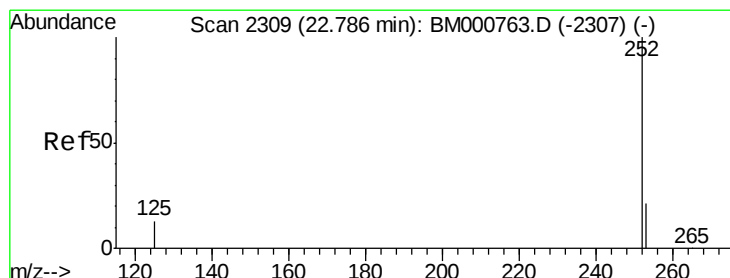
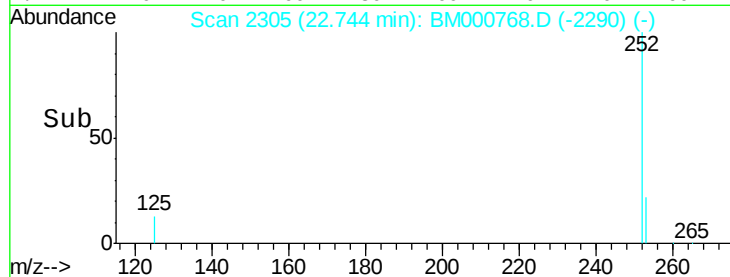
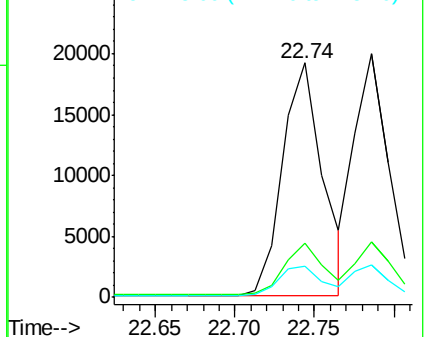
252 100

253 23.0 18.5 27.7

125 13.2 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: 1.04 ng

RT: 22.79 min Scan# 2309

Delta R.T. -0.00 min

Lab File: BM000768.D

Acq: 01 Apr 2015 00:13

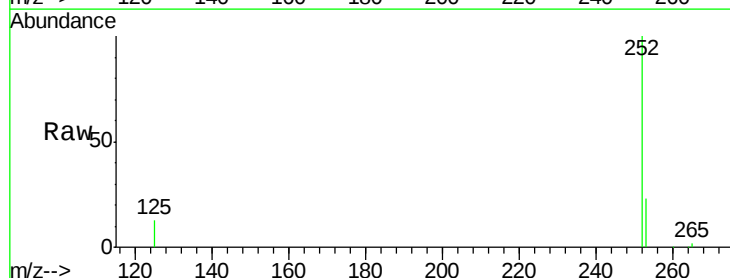
Tgt Ion:252 Resp: 31931

Ion Ratio Lower Upper

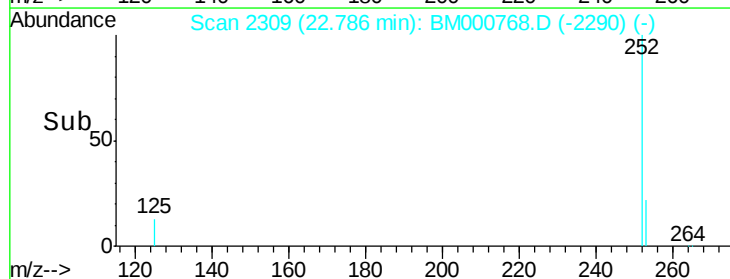
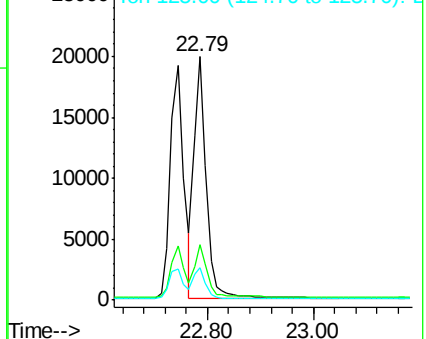
252 100

253 22.8 17.9 26.9

125 13.2 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: 1.04 ng

RT: 23.30 min Scan# 2358

Delta R.T. -0.01 min

Lab File: BM000768.D

Acq: 01 Apr 2015 00:13

Instrument :

BNA_M

ClientSampleId :

ICVBM033115

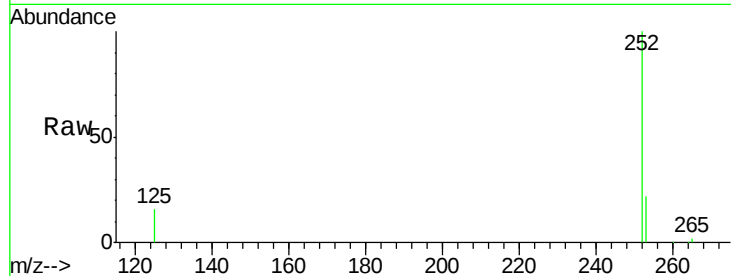
Tgt Ion:252 Resp: 28610

Ion Ratio Lower Upper

252 100

253 22.2 19.4 29.2

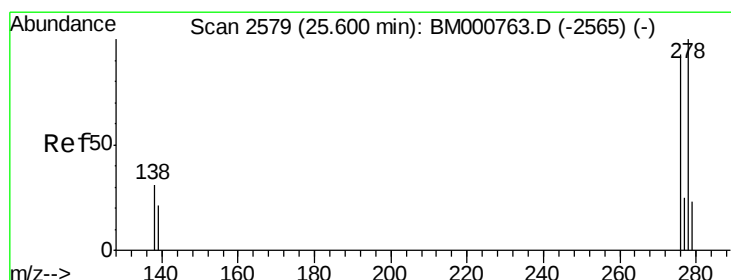
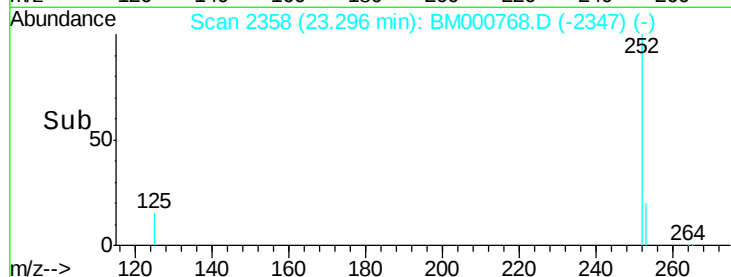
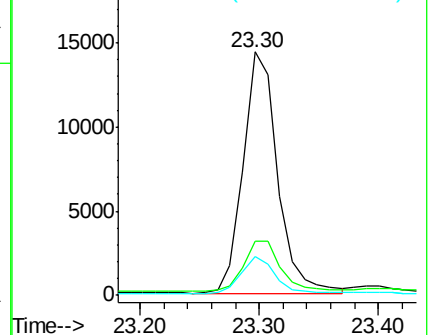
125 16.0 11.5 17.3



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: 1.05 ng

RT: 25.60 min Scan# 2579

Delta R.T. -0.00 min

Lab File: BM000768.D

Acq: 01 Apr 2015 00:13

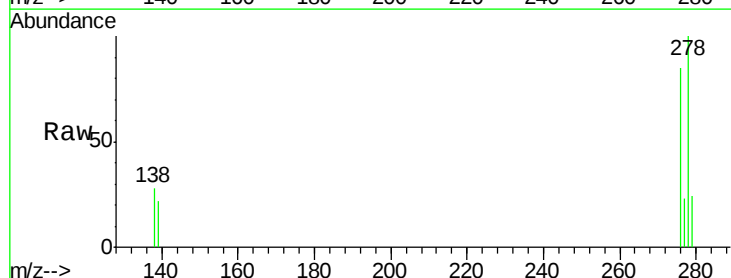
Tgt Ion:278 Resp: 28602

Ion Ratio Lower Upper

278 100

139 21.7 17.8 26.6

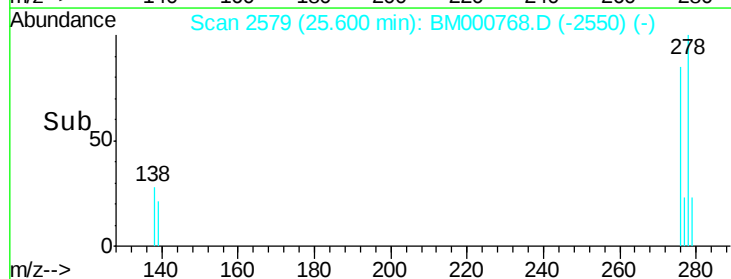
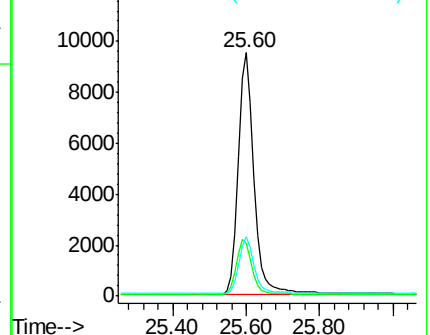
279 24.3 19.3 28.9



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: 1.04 ng

RT: 26.25 min Scan# 2641

Delta R.T. -0.01 min

Lab File: BM000768.D

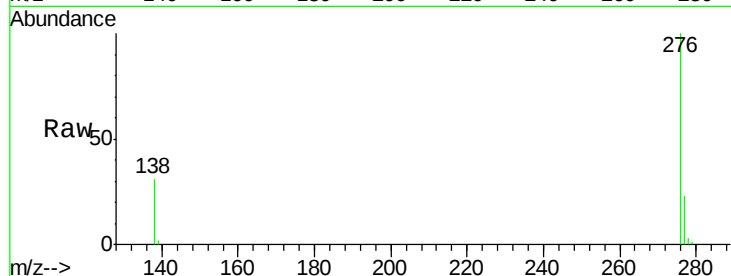
Acq: 01 Apr 2015 00:13

Instrument :

BNA_M

ClientSampleId :

ICVBM033115



Tgt Ion: 276 Resp: 30645

Ion Ratio Lower Upper

276 100

277 23.4 19.1 28.7

138 30.5 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

