

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM122915\
 Data File : BM003826.D
 Acq On : 28 Dec 2015 13:40
 Operator : UM/SJ
 Sample : G4889-04
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 LIBERTY-SF-121815

Quant Time: Dec 29 01:22:05 2015
 Quant Method : Z:\HPCHEM1\BNA_M\METHODS\8270-SIM-BM122415.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Dec 24 10:08:49 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.69	152	289070	5.00	ng	0.00
7) Naphthalene-d8	10.46	136	1168556	5.00	ng	-0.02
13) Acenaphthene-d10	14.33	164	611104	5.00	ng	0.00
19) Phenanthrene-d10	17.06	188	1012266	5.00	ng	0.00
26) Chrysene-d12	21.29	240	753949	5.00	ng	0.00
35) Perylene-d12	23.53	264	648116	5.00	ng	0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
4) 2-Fluorophenol	5.28	112	2093115	30.64	ng	0.02
5) Phenol-d6	6.87	99	2629819	31.44	ng	0.00
8) Nitrobenzene-d5	8.85	82	1554994	25.11	ng	0.00
14) 2,4,6-Tribromophenol	15.84	330	588401	30.19	ng	0.00
15) 2-Fluorobiphenyl	12.96	172	3484332	18.64	ng	0.00
29) Terphenyl-d14	19.72	244	1903620	16.12	ng	0.00

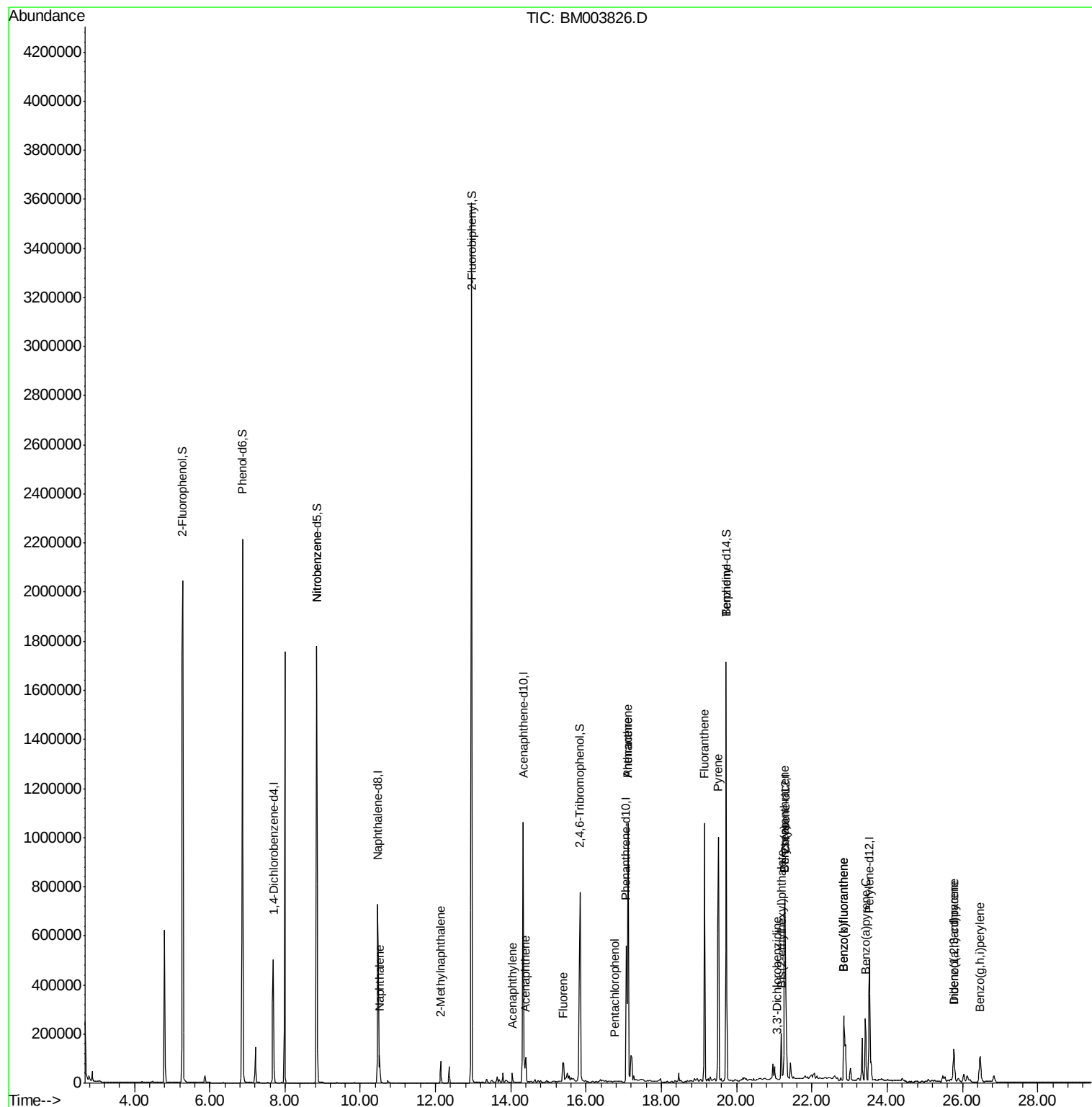
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	3.29	88	14	Below Cal	#	25
9) Nitrobenzene	8.85	77	4869	0.07 ng	#	34
10) Naphthalene	10.51	128	148783	0.56 ng		99
12) 2-Methylnaphthalene	12.13	142	70290	0.39 ng		90
16) Acenaphthylene	14.04	152	37406	0.13 ng	#	93
17) Acenaphthene	14.39	154	77482	0.46 ng		95
18) Fluorene	15.39	166	95230	0.46 ng	#	13
20) 4-Bromophenyl-phenylether	16.27	248	26	Below Cal	#	9
21) Hexachlorobenzene	16.40	284	75	Below Cal	#	48
22) Pentachlorophenol	16.76	266	250	0.39 ng	#	78
23) Phenanthrene	17.11	178	1259499	4.61 ng		99
24) Anthracene	17.11	178	1255533	5.01 ng		98
25) Fluoranthene	19.14	202	1252880	3.88 ng		100
27) Benzdine	19.72	184	54931	1.15 ng	#	86
28) Pyrene	19.52	202	1138392	4.55 ng	#	93
30) Benzo(a)anthracene	21.27	228	876389	3.88 ng		95
31) 3,3'-Dichlorobenzidine	21.08	252	669	0.25 ng	#	39
32) Chrysene	21.27	228	872668	4.24 ng	#	89
33) Bis(2-ethylhexyl)phthalate	21.19	149	195923	1.33 ng	#	100
34) Indeno(1,2,3-cd)pyrene	25.77	276	207345	1.30 ng		94
36) Benzo(b)fluoranthene	22.85	252	593939	2.80 ng	#	95
37) Benzo(k)fluoranthene	22.85	252	593939	3.04 ng	#	96
38) Benzo(a)pyrene	23.42	252	336947	1.86 ng		97
39) Dibenzo(a,h)anthracene	25.78	278	50788	0.36 ng	#	84
40) Benzo(g,h,i)perylene	26.47	276	207444	1.39 ng		97

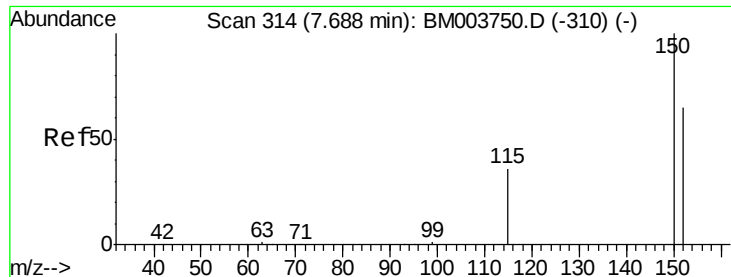
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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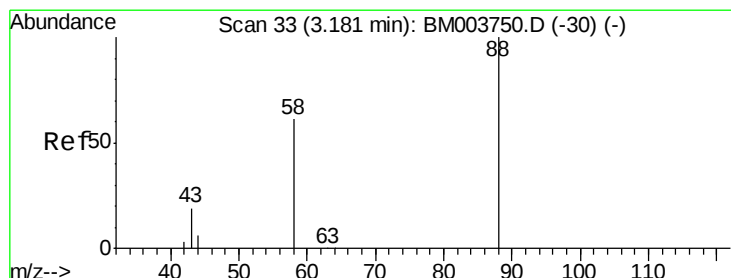
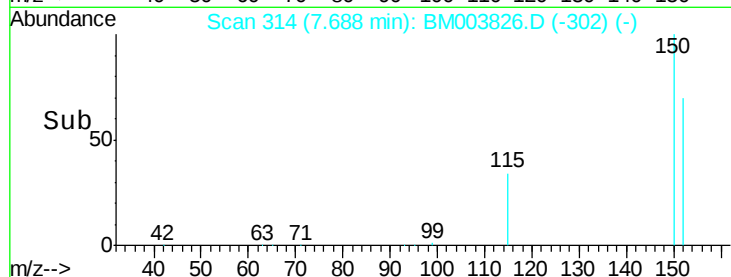
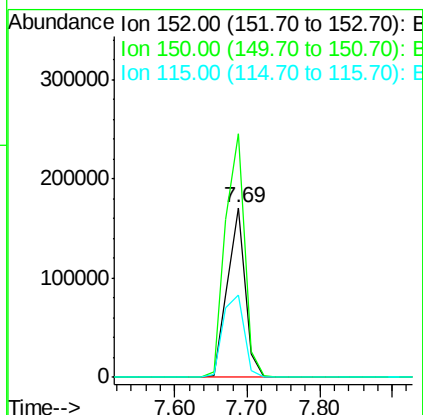
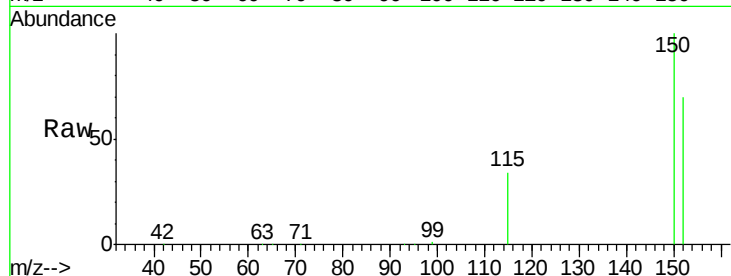




#1
 1,4-Dichlorobenzene-d4
 Concen: 5.00 ng
 RT: 7.69 min Scan# 314
 Delta R.T. 0.00 min
 Lab File: BM003826.D
 Acq: 28 Dec 2015 13:40

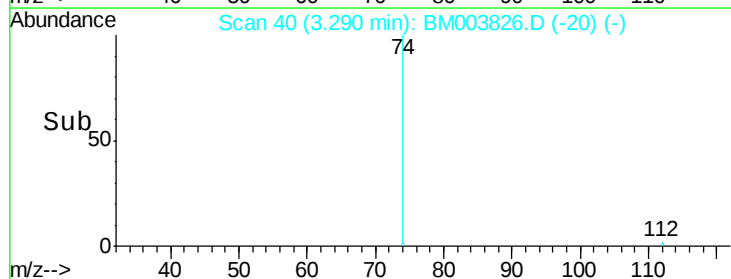
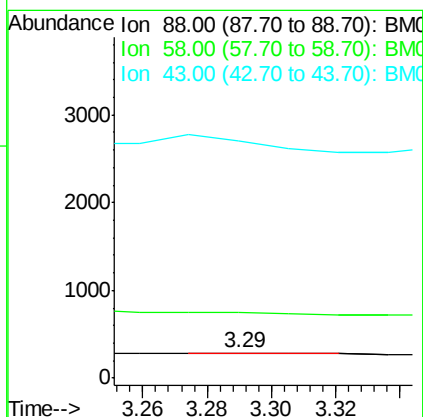
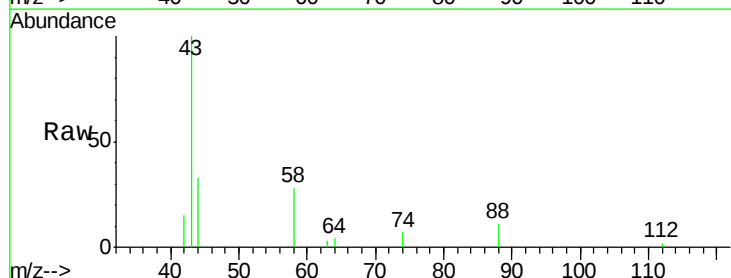
Instrument :
 BNA_M
 ClientSampleId :
 LIBERTY-SF-121815

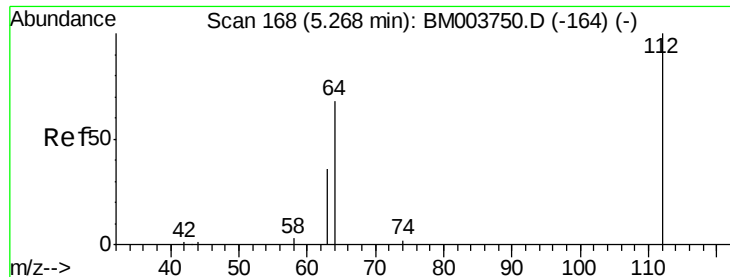
Tgt Ion: 152 Resp: 289070
 Ion Ratio Lower Upper
 152 100
 150 143.4 122.9 184.3
 115 48.4 44.4 66.6



#2
 1,4-Dioxane
 Concen: Below Cal
 RT: 3.29 min Scan# 40
 Delta R.T. 0.11 min
 Lab File: BM003826.D
 Acq: 28 Dec 2015 13:40

Tgt Ion: 88 Resp: 14
 Ion Ratio Lower Upper
 88 100
 58 0.0 53.8 80.6#
 43 0.0 23.8 35.6#





#4

2-Fluorophenol

Concen: 30.64 ng

RT: 5.28 min Scan# 169

Delta R.T. 0.02 min

Lab File: BM003826.D

Acq: 28 Dec 2015 13:40

Instrument :

BNA_M

ClientSampleId :

LIBERTY-SF-121815

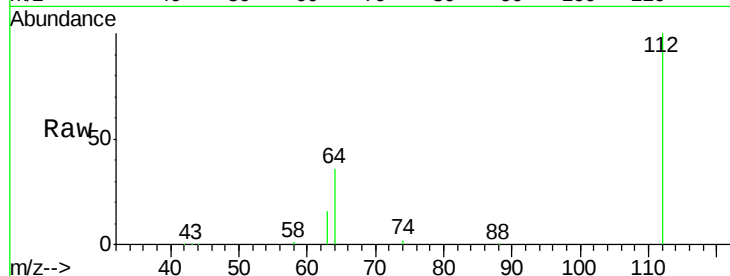
Tgt Ion: 112 Resp: 2093115

Ion Ratio Lower Upper

112 100

64 52.0 41.8 62.8

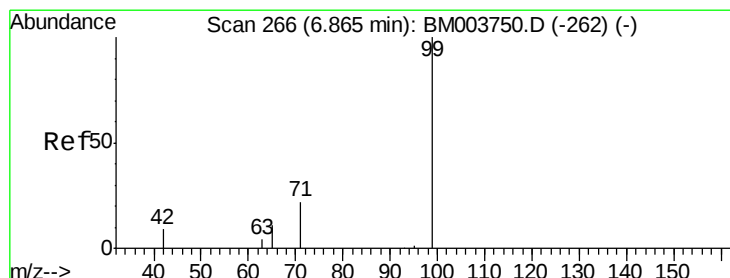
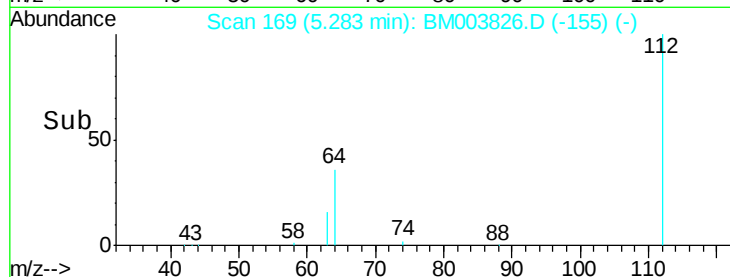
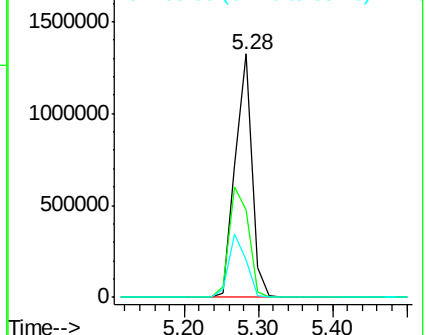
63 27.1 22.1 33.1



Abundance Ion 112.00 (111.70 to 112.70): B

Ion 64.00 (63.70 to 64.70): B

Ion 63.00 (62.70 to 63.70): B



#5

Phenol-d6

Concen: 31.44 ng

RT: 6.87 min Scan# 266

Delta R.T. 0.00 min

Lab File: BM003826.D

Acq: 28 Dec 2015 13:40

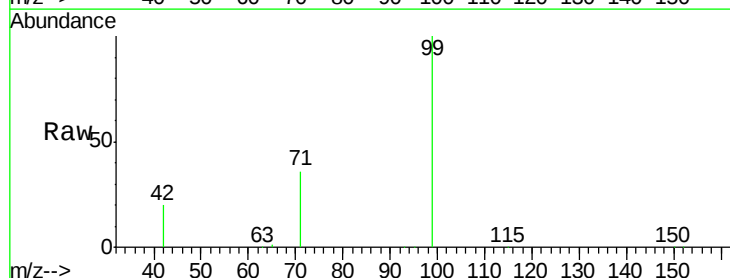
Tgt Ion: 99 Resp: 2629819

Ion Ratio Lower Upper

99 100

42 18.9 16.2 24.2

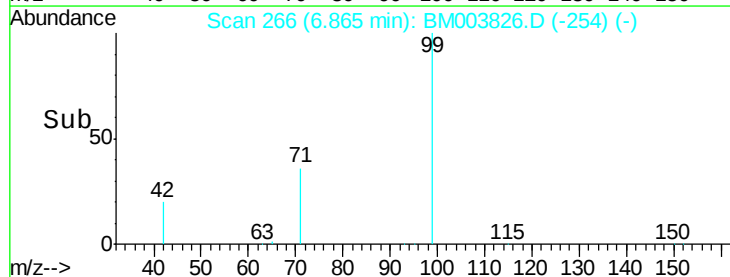
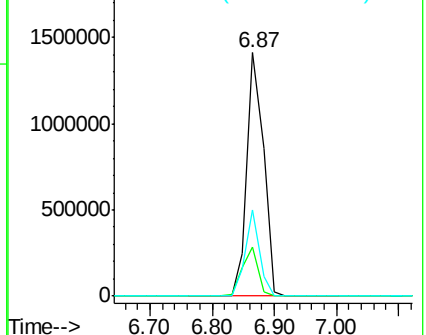
71 30.8 24.4 36.6

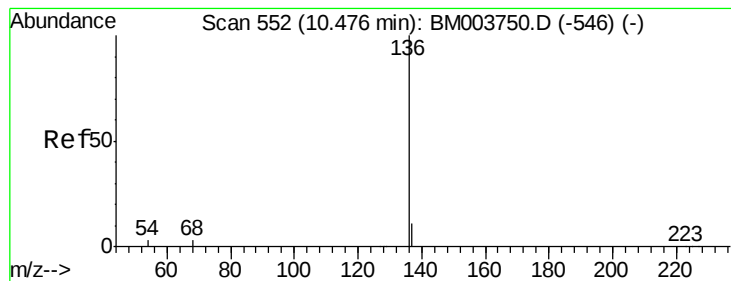


Abundance Ion 99.00 (98.70 to 99.70): B

Ion 42.00 (41.70 to 42.70): B

Ion 71.00 (70.70 to 71.70): B





#7

Naphthalene-d8

Concen: 5.00 ng

RT: 10.46 min Scan# 551

Delta R.T. -0.02 min

Lab File: BM003826.D

Acq: 28 Dec 2015 13:40

Instrument :

BNA_M

ClientSampleId :

LIBERTY-SF-121815

Tgt Ion:136 Resp: 1168556

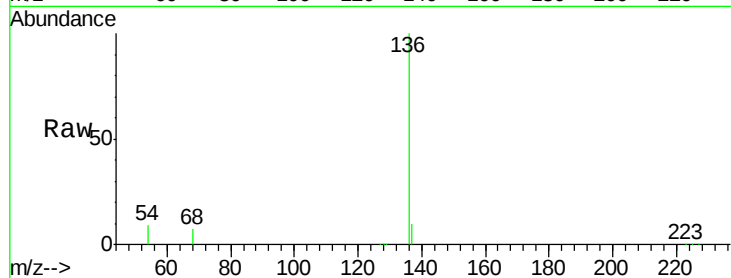
Ion Ratio Lower Upper

136 100

137 10.3 9.2 13.8

54 9.1 2.8 4.2#

68 6.7 2.5 3.7#

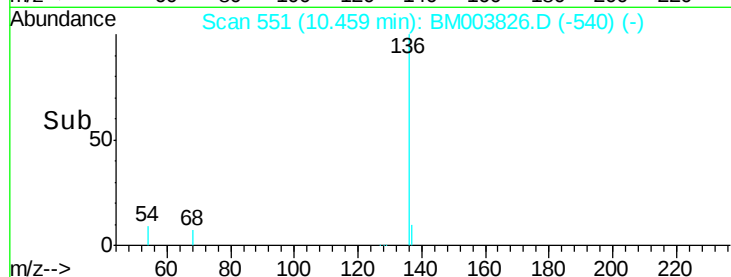


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

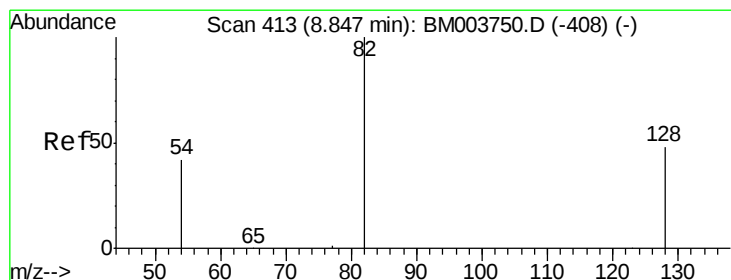
Ion 54.00 (53.70 to 54.70): BM

Ion 68.00 (67.70 to 68.70): BM



Time-->

10.46



#8

Nitrobenzene-d5

Concen: 25.11 ng

RT: 8.85 min Scan# 413

Delta R.T. 0.00 min

Lab File: BM003826.D

Acq: 28 Dec 2015 13:40

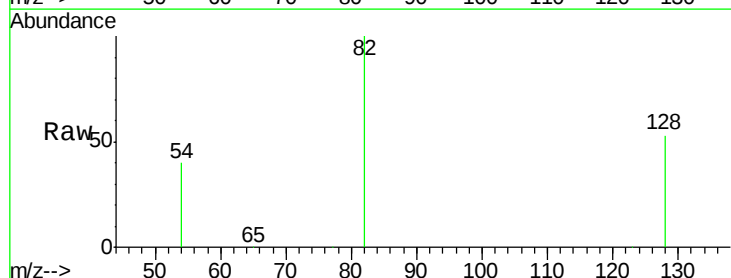
Tgt Ion: 82 Resp: 1554994

Ion Ratio Lower Upper

82 100

128 53.4 39.1 58.7

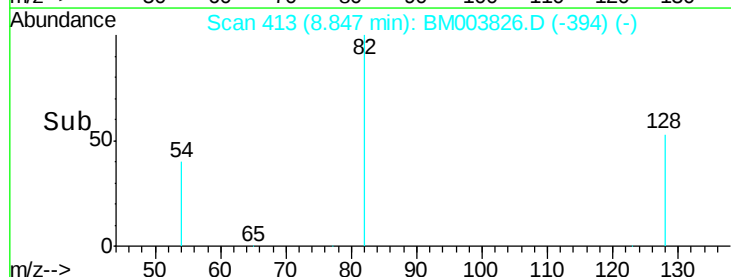
54 40.5 34.8 52.2



Abundance Ion 82.00 (81.70 to 82.70): BM

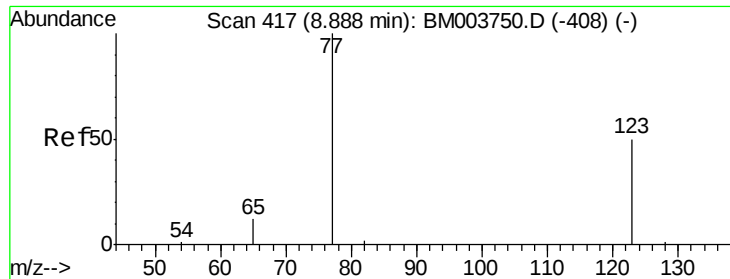
Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BM



Time-->

8.85



#9

Nitrobenzene

Concen: 0.07 ng

RT: 8.85 min Scan# 413

Delta R.T. -0.04 min

Lab File: BM003826.D

Acq: 28 Dec 2015 13:40

Instrument :

BNA_M

ClientSampleId :

LIBERTY-SF-121815

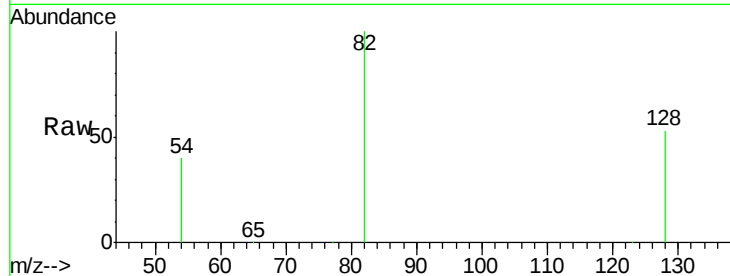
Tgt Ion: 77 Resp: 4869

Ion Ratio Lower Upper

77 100

123 1.1 38.6 57.8#

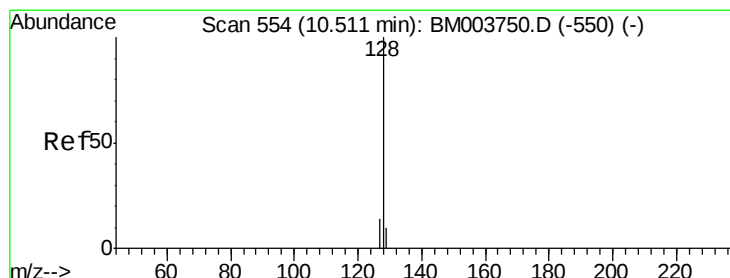
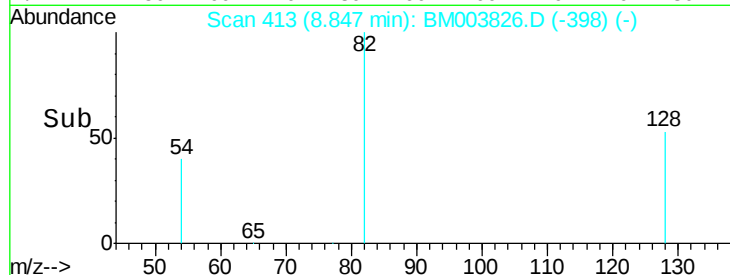
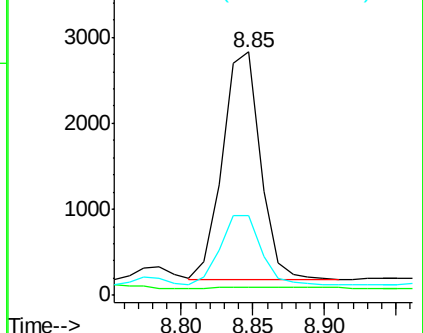
65 33.2 9.9 14.9#



Abundance Ion 77.00 (76.70 to 77.70): BM003750.D (-408) (-)

Ion 123.00 (122.70 to 123.70): BM003750.D (-408) (-)

Ion 65.00 (64.70 to 65.70): BM003750.D (-408) (-)



#10

Naphthalene

Concen: 0.56 ng

RT: 10.51 min Scan# 554

Delta R.T. 0.00 min

Lab File: BM003826.D

Acq: 28 Dec 2015 13:40

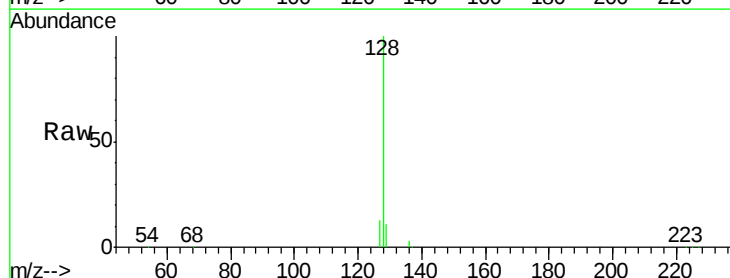
Tgt Ion: 128 Resp: 148783

Ion Ratio Lower Upper

128 100

129 11.0 8.5 12.7

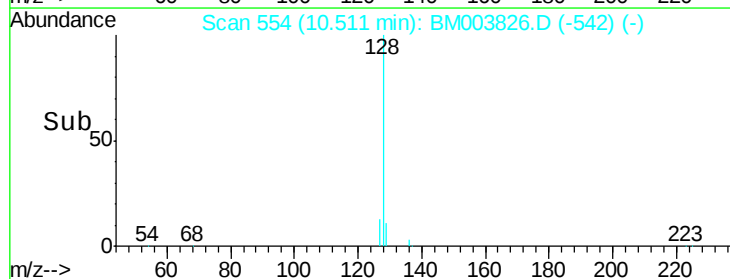
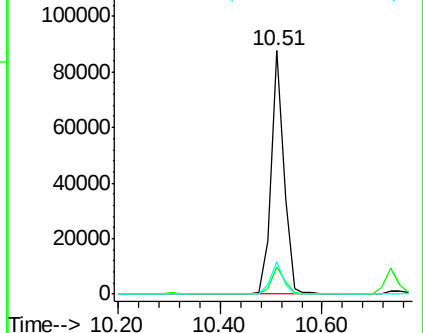
127 13.1 11.0 16.4

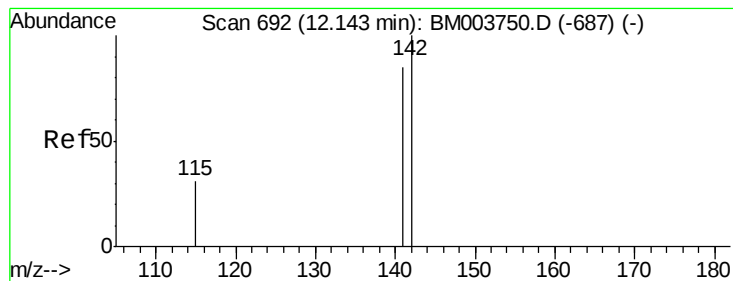


Abundance Ion 128.00 (127.70 to 128.70): BM003750.D (-550) (-)

Ion 129.00 (128.70 to 129.70): BM003750.D (-550) (-)

Ion 127.00 (126.70 to 127.70): BM003750.D (-550) (-)





#12

2-Methylnaphthalene

Concen: 0.39 ng

RT: 12.13 min Scan# 691

Delta R.T. -0.01 min

Lab File: BM003826.D

Acq: 28 Dec 2015 13:40

Instrument :

BNA_M

ClientSampleId :

LIBERTY-SF-121815

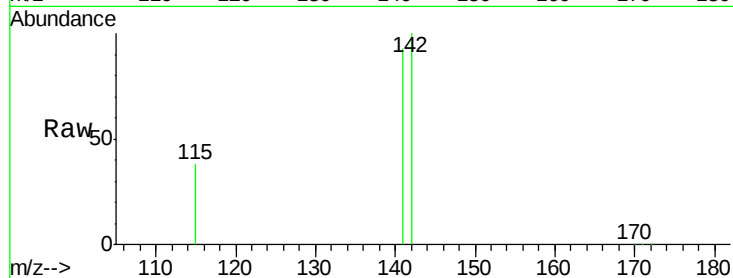
Tgt Ion:142 Resp: 70290

Ion Ratio Lower Upper

142 100

141 93.0 67.8 101.8

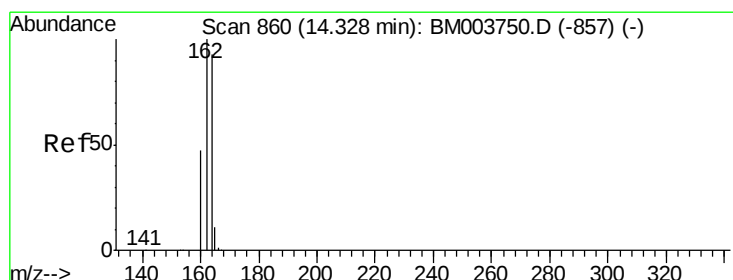
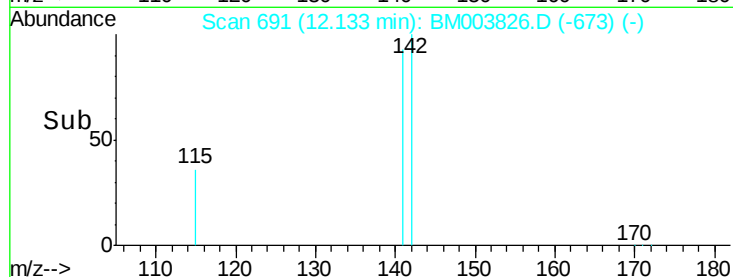
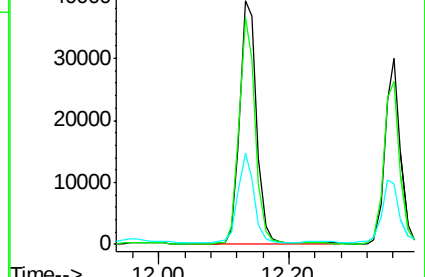
115 37.6 25.3 37.9



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



#13

Acenaphthene-d10

Concen: 5.00 ng

RT: 14.33 min Scan# 860

Delta R.T. 0.00 min

Lab File: BM003826.D

Acq: 28 Dec 2015 13:40

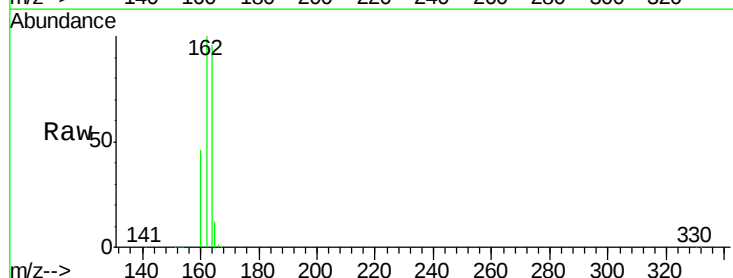
Tgt Ion:164 Resp: 611104

Ion Ratio Lower Upper

164 100

162 104.2 86.0 129.0

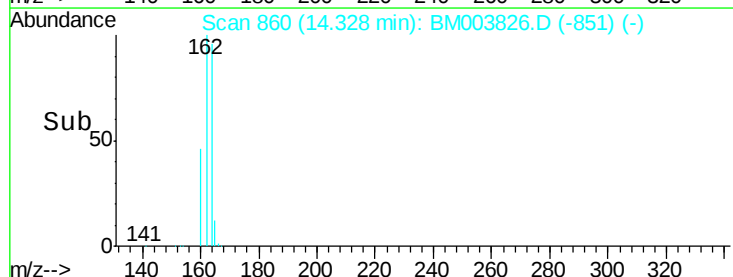
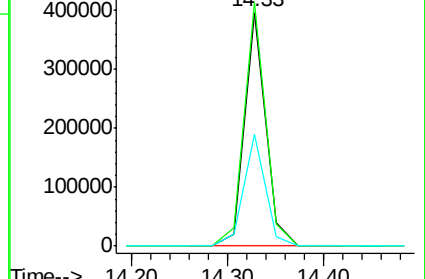
160 47.8 40.3 60.5

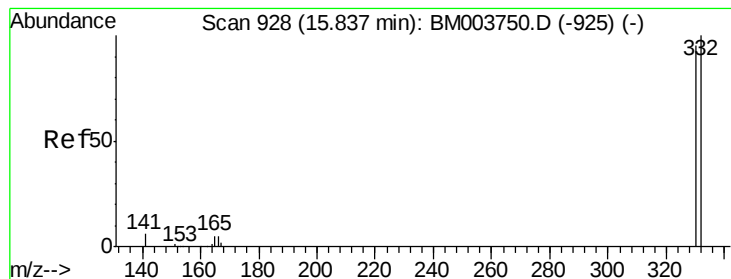


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

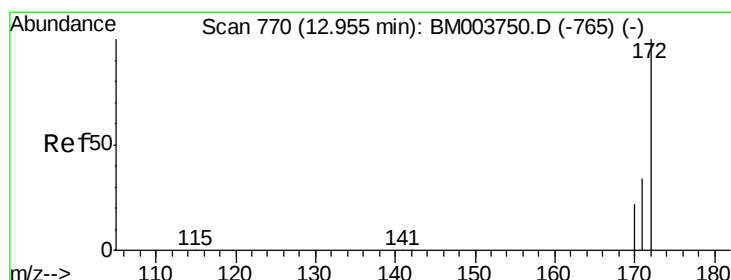
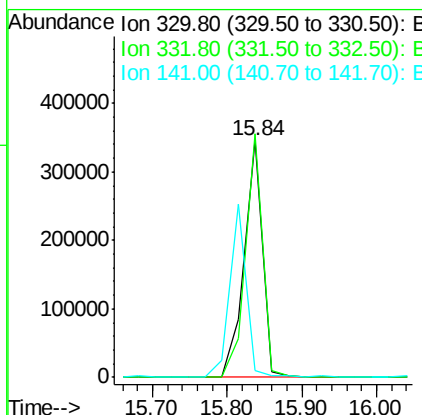
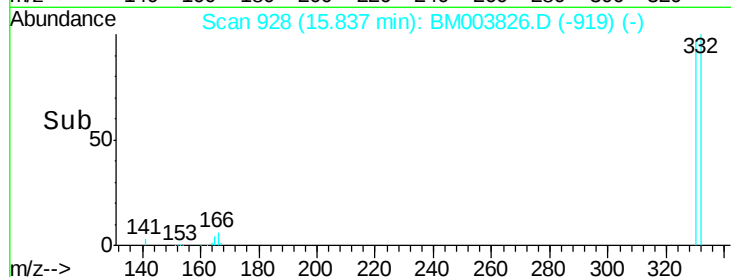
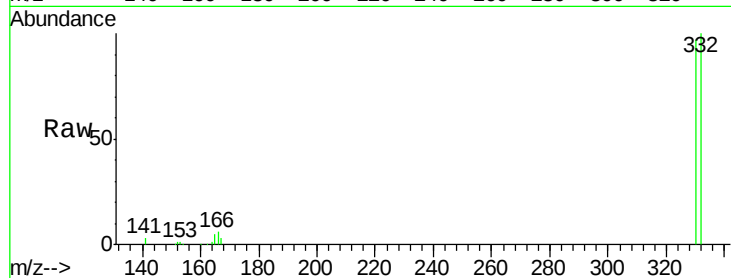




#14
 2,4,6-Tribromophenol
 Concen: 30.19 ng
 RT: 15.84 min Scan# 928
 Delta R.T. 0.00 min
 Lab File: BM003826.D
 Acq: 28 Dec 2015 13:40

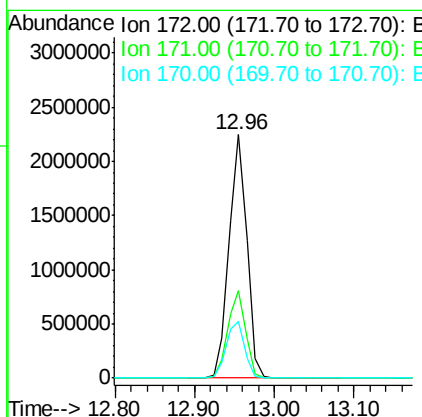
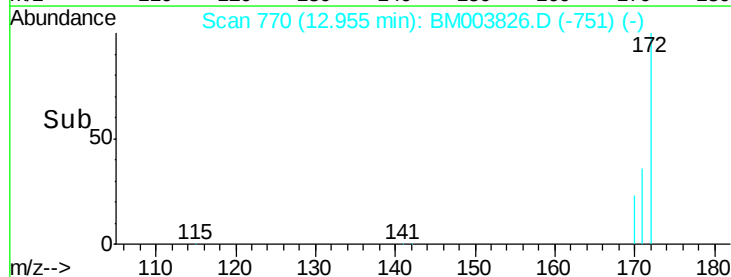
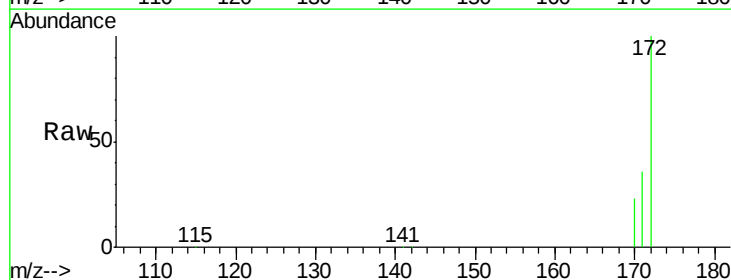
Instrument :
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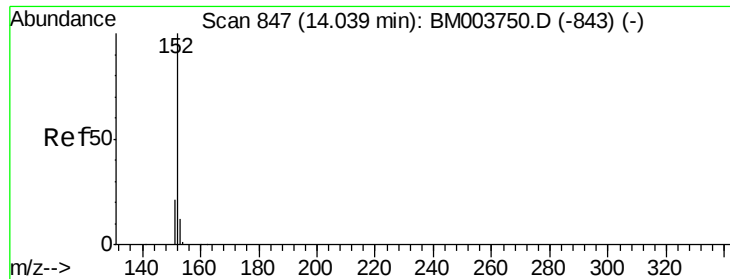
Tgt Ion:330 Resp: 588401
 Ion Ratio Lower Upper
 330 100
 332 96.4 79.0 118.4
 141 0.0 0.0 0.0



#15
 2-Fluorobiphenyl
 Concen: 18.64 ng
 RT: 12.96 min Scan# 770
 Delta R.T. 0.00 min
 Lab File: BM003826.D
 Acq: 28 Dec 2015 13:40

Tgt Ion:172 Resp: 3484332
 Ion Ratio Lower Upper
 172 100
 171 35.7 27.0 40.6
 170 23.4 17.9 26.9





#16

Acenaphthylene

Concen: 0.13 ng

RT: 14.04 min Scan# 847

Delta R.T. 0.00 min

Lab File: BM003826.D

Acq: 28 Dec 2015 13:40

Instrument :

BNA_M

ClientSampleId :

LIBERTY-SF-121815

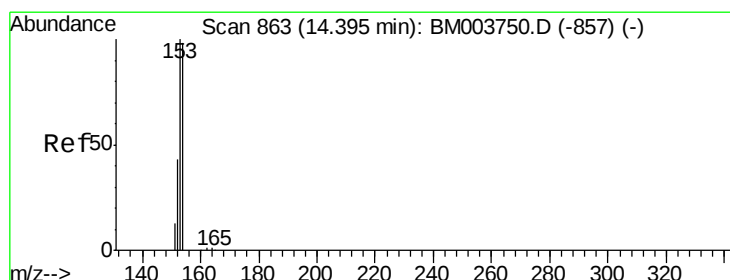
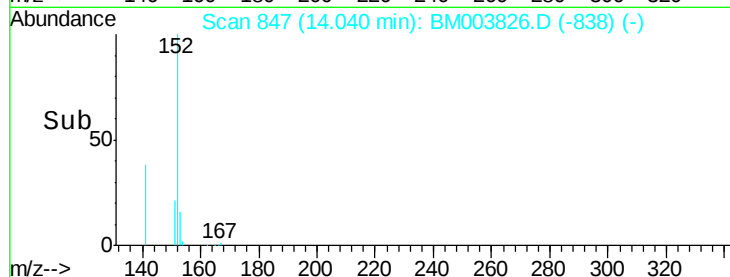
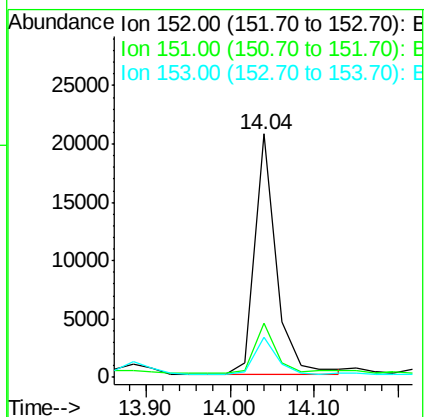
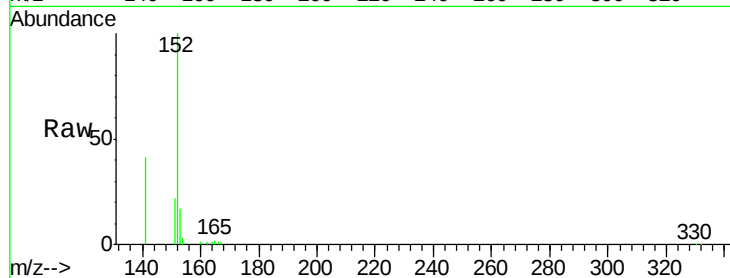
Tgt Ion:152 Resp: 37406

Ion Ratio Lower Upper

152 100

151 21.9 15.8 23.8

153 17.3 10.2 15.4#



#17

Acenaphthene

Concen: 0.46 ng

RT: 14.39 min Scan# 863

Delta R.T. 0.00 min

Lab File: BM003826.D

Acq: 28 Dec 2015 13:40

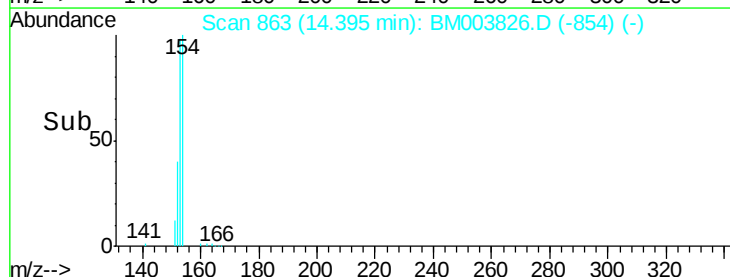
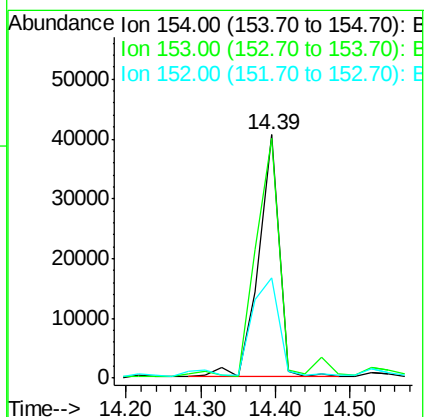
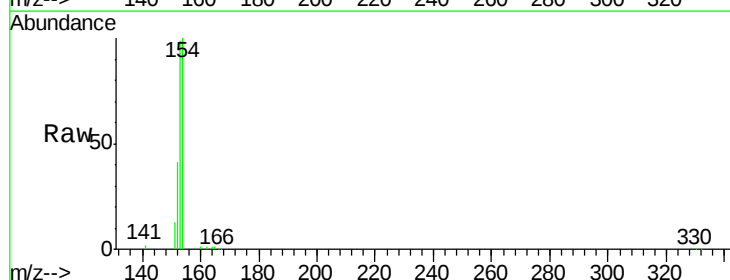
Tgt Ion:154 Resp: 77482

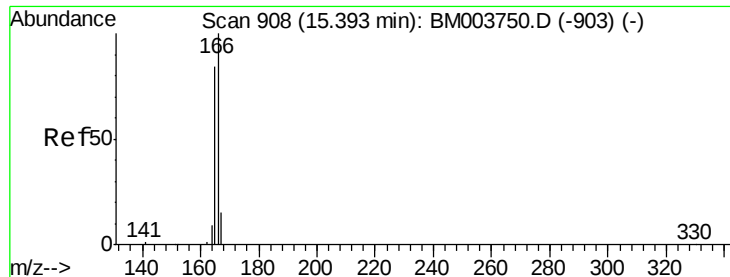
Ion Ratio Lower Upper

154 100

153 111.0 85.4 128.2

152 56.0 40.6 60.8





#18

Fluorene

Concen: 0.46 ng

RT: 15.39 min Scan# 908

Delta R.T. 0.00 min

Lab File: BM003826.D

Acq: 28 Dec 2015 13:40

Instrument :

BNA_M

ClientSampleId :

LIBERTY-SF-121815

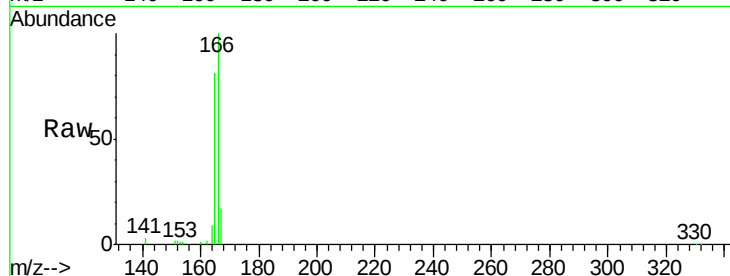
Tgt Ion:166 Resp: 95230

Ion Ratio Lower Upper

166 100

165 0.0 77.2 115.8#

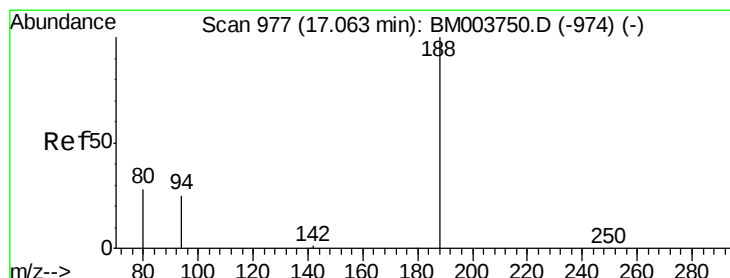
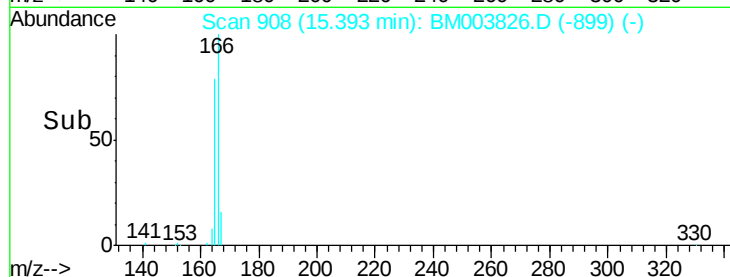
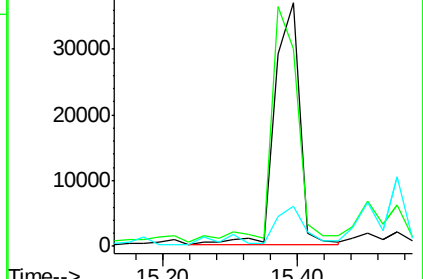
167 15.9 11.0 16.6



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



#19

Phenanthrene-d10

Concen: 5.00 ng

RT: 17.06 min Scan# 977

Delta R.T. 0.00 min

Lab File: BM003826.D

Acq: 28 Dec 2015 13:40

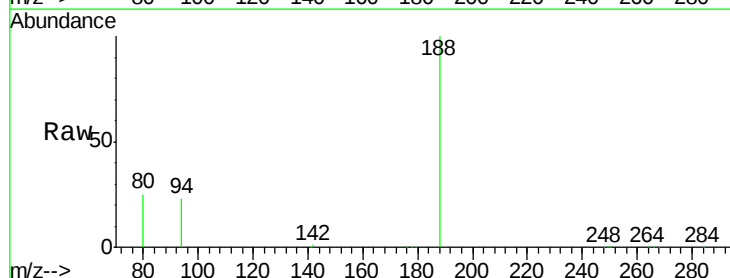
Tgt Ion:188 Resp: 1012266

Ion Ratio Lower Upper

188 100

94 23.1 20.3 30.5

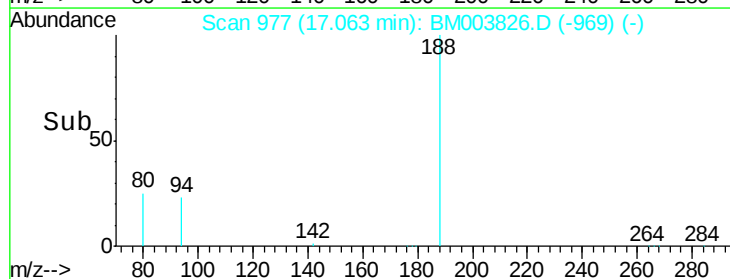
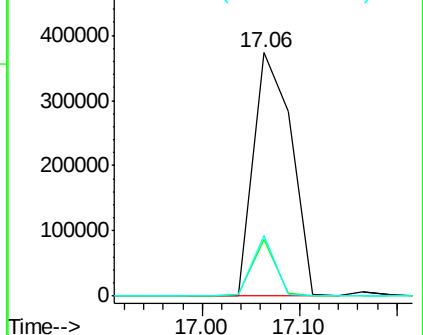
80 25.1 22.2 33.4

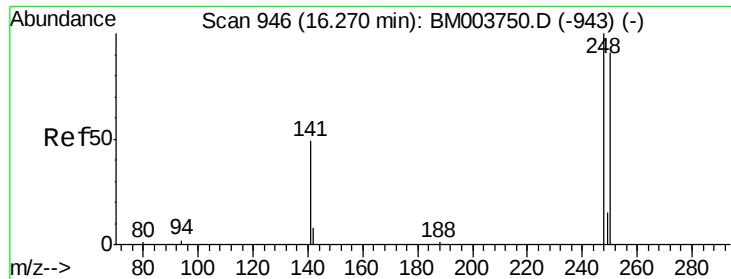


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BM0

Ion 80.00 (79.70 to 80.70): BM0





#20

4-Bromophenyl-phenylether

Concen: Below Cal

RT: 16.27 min Scan# 946

Delta R.T. 0.00 min

Lab File: BM003826.D

Acq: 28 Dec 2015 13:40

Instrument :

BNA_M

ClientSampleId :

LIBERTY-SF-121815

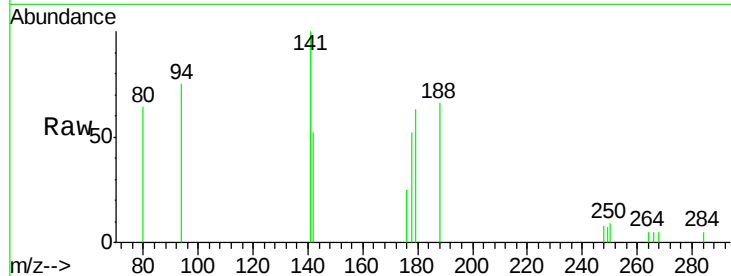
Tgt Ion:248 Resp: 26

Ion Ratio Lower Upper

248 100

250 0.0 75.0 112.4#

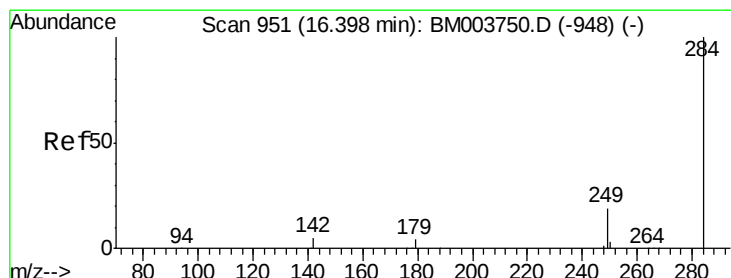
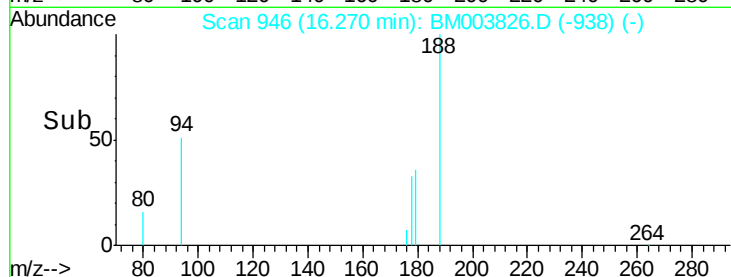
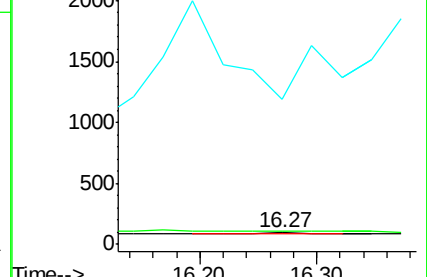
141 0.0 53.0 79.4#



Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E



#21

Hexachlorobenzene

Concen: Below Cal

RT: 16.40 min Scan# 951

Delta R.T. 0.00 min

Lab File: BM003826.D

Acq: 28 Dec 2015 13:40

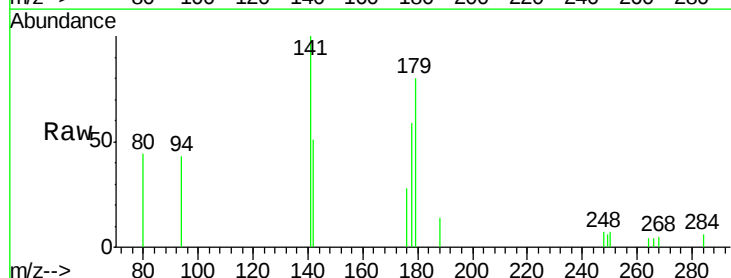
Tgt Ion:284 Resp: 75

Ion Ratio Lower Upper

284 100

142 0.0 0.0 0.0

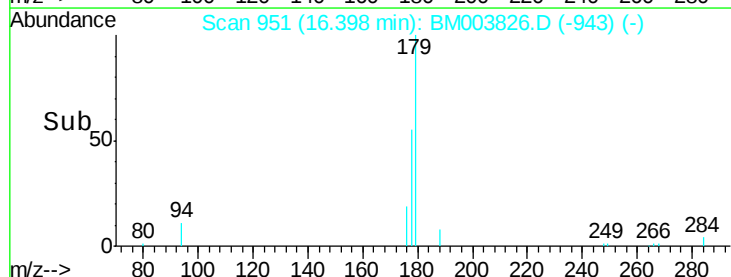
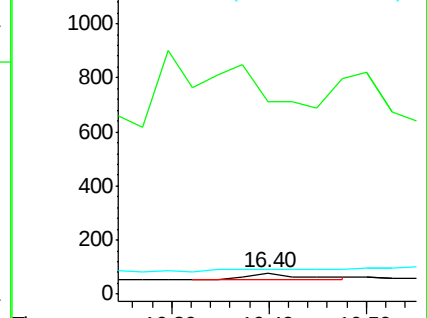
249 0.0 21.5 32.3#

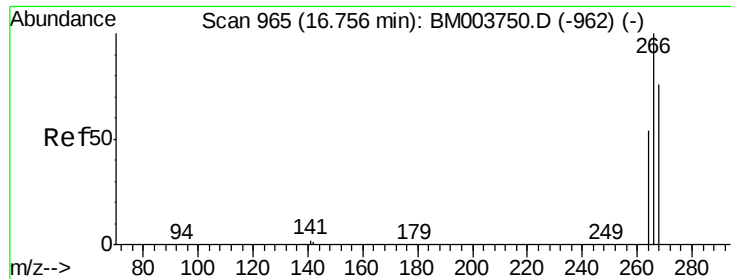


Abundance Ion 283.80 (283.50 to 284.50): E

Ion 142.00 (141.70 to 142.70): E

Ion 249.00 (248.70 to 249.70): E





#22

Pentachlorophenol

Concen: 0.39 ng

RT: 16.76 min Scan# 965

Delta R.T. 0.00 min

Lab File: BM003826.D

Acq: 28 Dec 2015 13:40

Instrument :

BNA_M

ClientSampleId :

LIBERTY-SF-121815

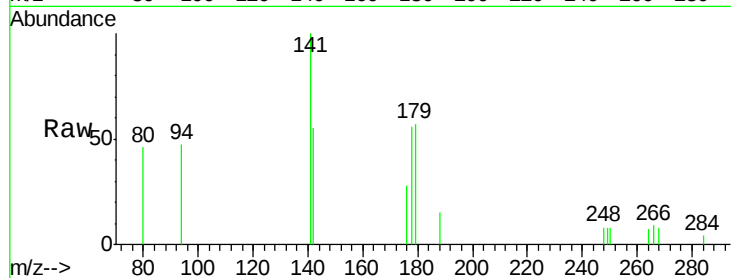
Tgt Ion:266 Resp: 250

Ion Ratio Lower Upper

266 100

268 89.1 62.7 94.1

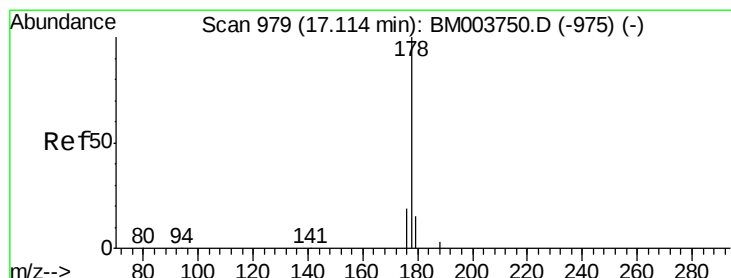
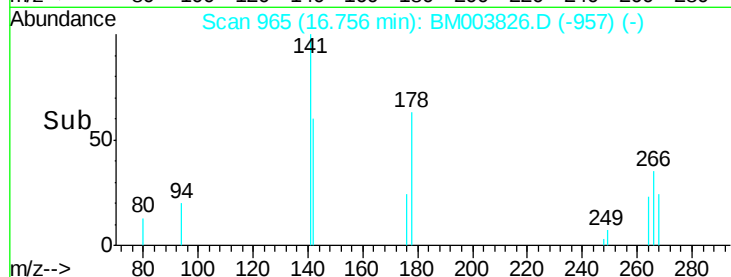
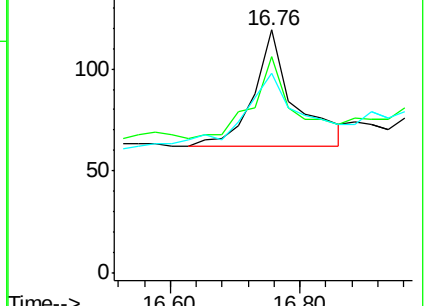
264 82.4 45.7 68.5#



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



#23

Phenanthrene

Concen: 4.61 ng

RT: 17.11 min Scan# 979

Delta R.T. 0.00 min

Lab File: BM003826.D

Acq: 28 Dec 2015 13:40

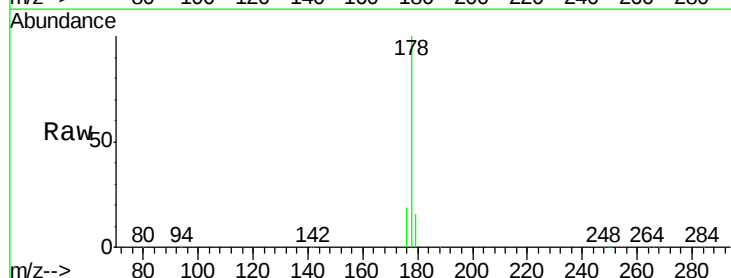
Tgt Ion:178 Resp: 1259499

Ion Ratio Lower Upper

178 100

176 19.1 15.4 23.0

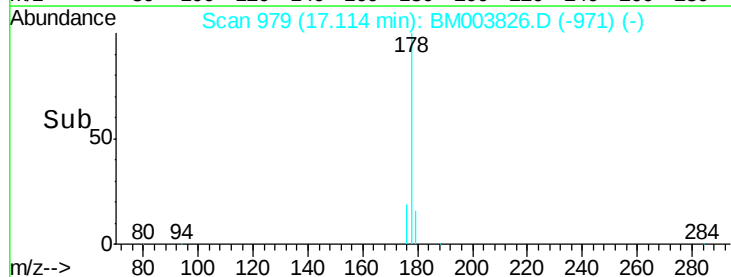
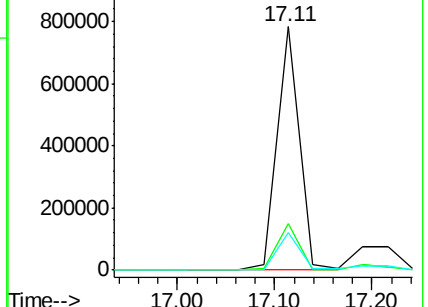
179 16.5 12.2 18.4

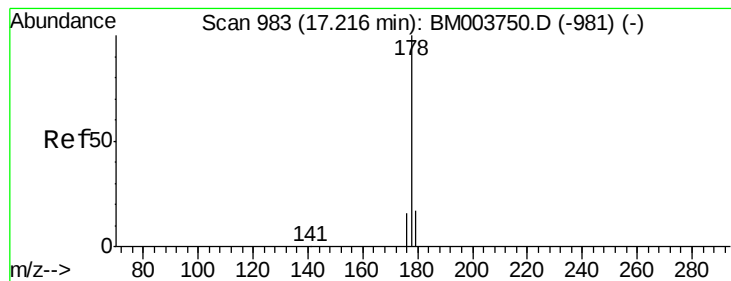


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#24

Anthracene

Concen: 5.01 ng

RT: 17.11 min Scan# 979

Delta R.T. -0.10 min

Lab File: BM003826.D

Acq: 28 Dec 2015 13:40

Instrument :

BNA_M

ClientSampleId :

LIBERTY-SF-121815

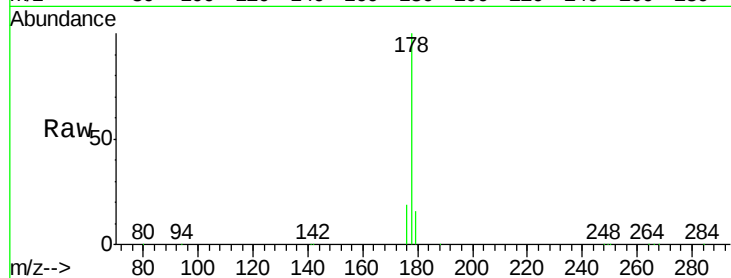
Tgt Ion:178 Resp: 1255533

Ion Ratio Lower Upper

178 100

176 19.1 14.6 21.8

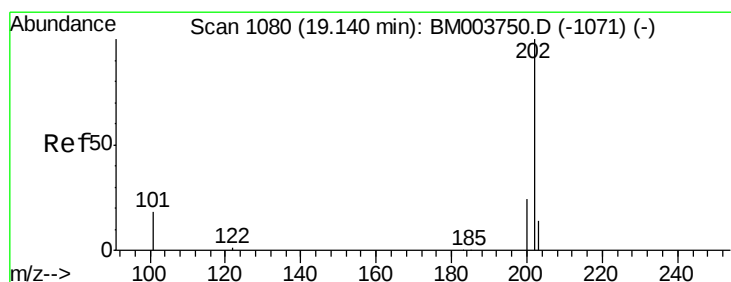
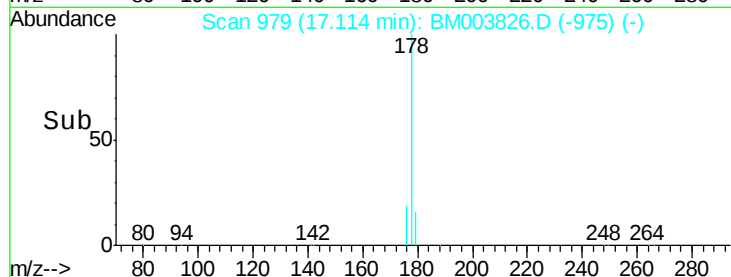
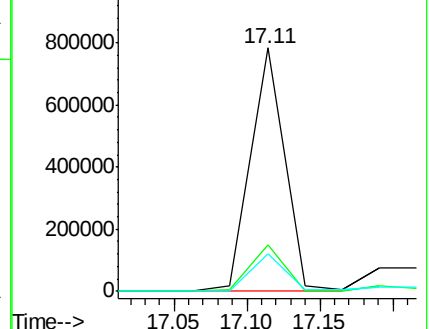
179 16.2 12.6 19.0



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



#25

Fluoranthene

Concen: 3.88 ng

RT: 19.14 min Scan# 1080

Delta R.T. 0.00 min

Lab File: BM003826.D

Acq: 28 Dec 2015 13:40

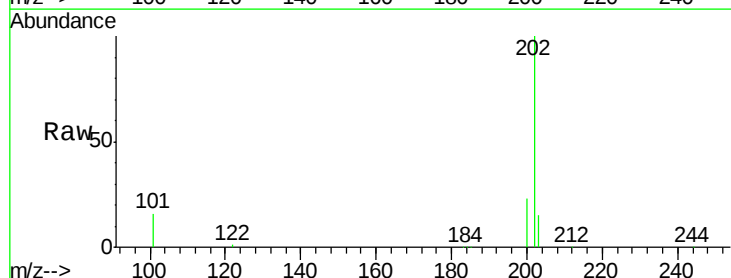
Tgt Ion:202 Resp: 1252880

Ion Ratio Lower Upper

202 100

101 12.1 9.7 14.5

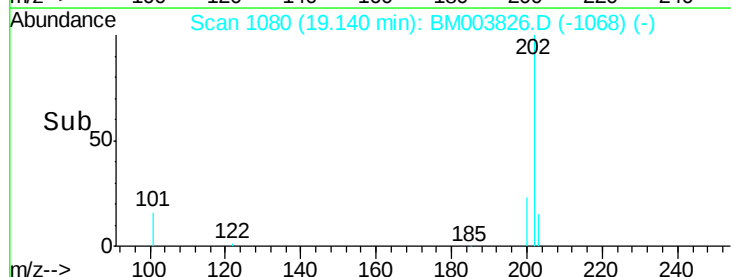
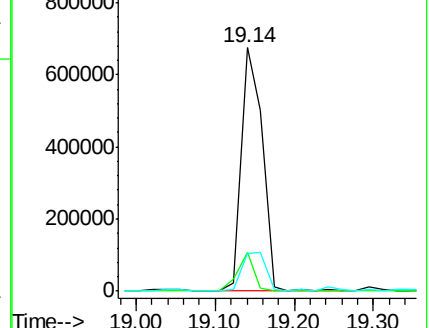
203 17.4 13.8 20.8

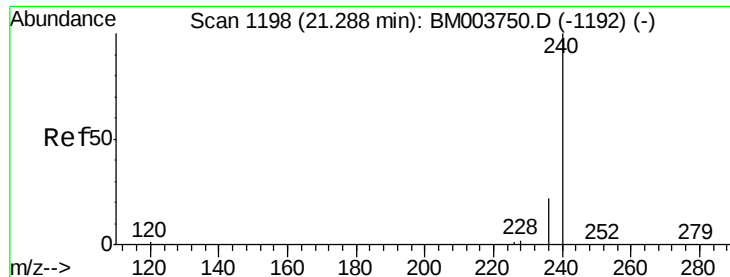


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#26

Chrysene-d12

Concen: 5.00 ng

RT: 21.29 min Scan# 1198

Delta R.T. 0.00 min

Lab File: BM003826.D

Acq: 28 Dec 2015 13:40

Instrument :

BNA_M

ClientSampleId :

LIBERTY-SF-121815

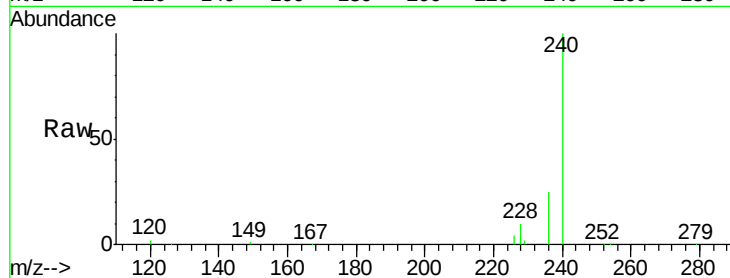
Tgt Ion:240 Resp: 753949

Ion Ratio Lower Upper

240 100

120 2.2 0.9 1.3#

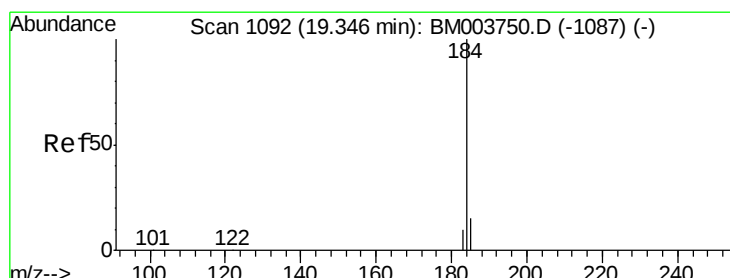
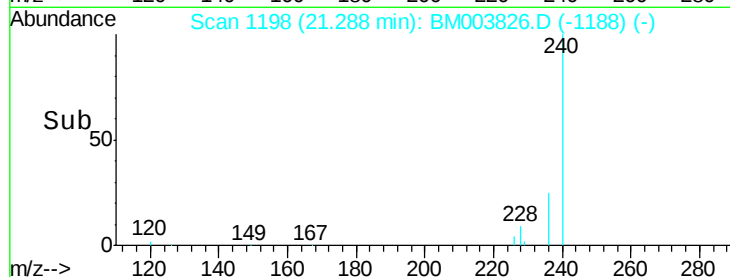
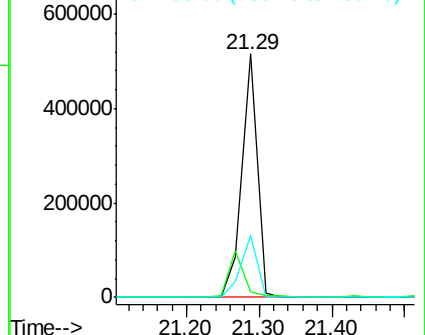
236 25.5 17.3 25.9



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



#27

Benzidine

Concen: 1.15 ng

RT: 19.72 min Scan# 1114

Delta R.T. 0.38 min

Lab File: BM003826.D

Acq: 28 Dec 2015 13:40

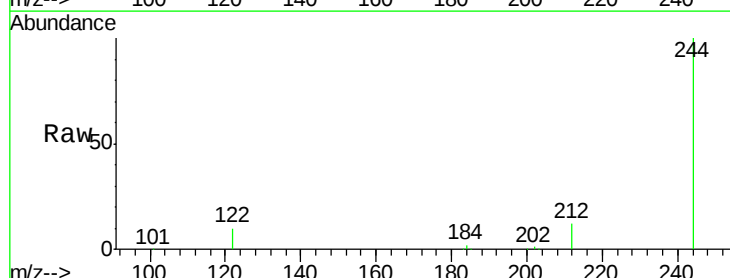
Tgt Ion:184 Resp: 54931

Ion Ratio Lower Upper

184 100

185 22.0 13.2 19.8#

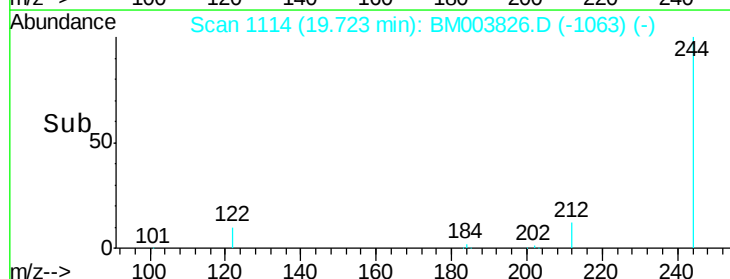
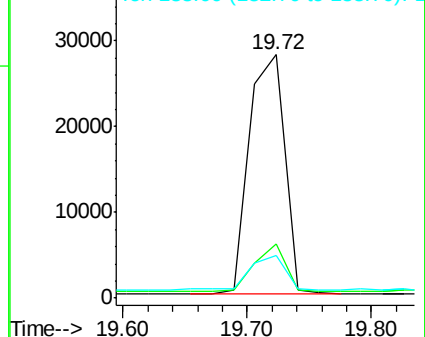
183 17.6 9.0 13.6#

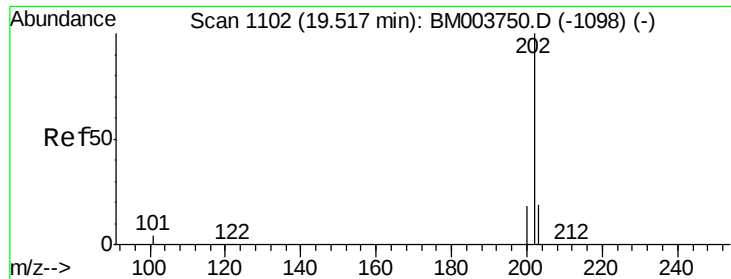


Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E





#28

Pyrene

Concen: 4.55 ng

RT: 19.52 min Scan# 1102

Delta R.T. 0.00 min

Lab File: BM003826.D

Acq: 28 Dec 2015 13:40

Instrument :

BNA_M

ClientSampleId :

LIBERTY-SF-121815

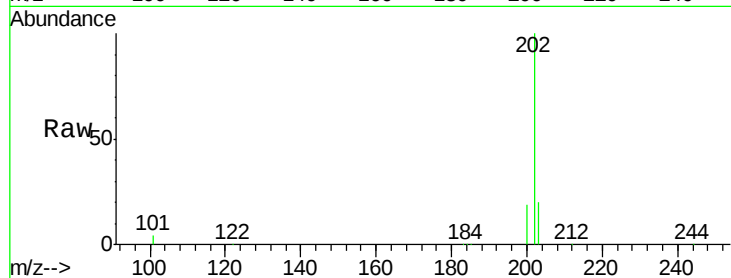
Tgt Ion:202 Resp: 1138392

Ion Ratio Lower Upper

202 100

200 21.2 16.6 24.8

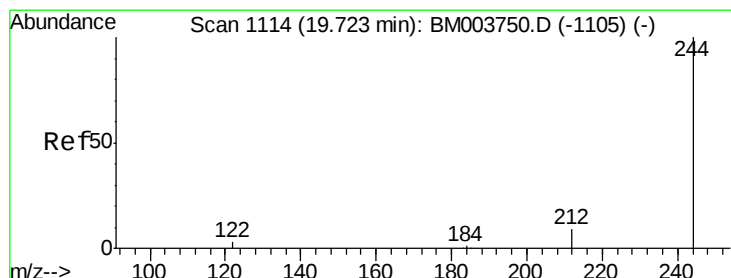
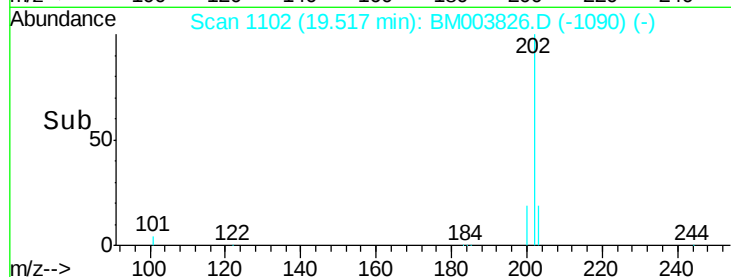
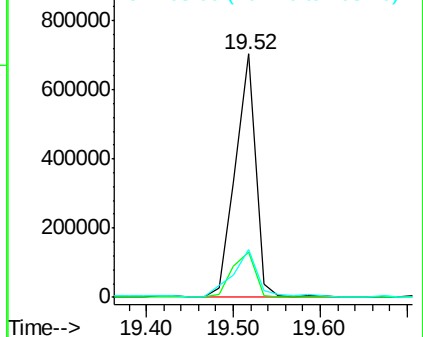
203 24.0 14.0 21.0#



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



#29

Terphenyl-d14

Concen: 16.12 ng

RT: 19.72 min Scan# 1114

Delta R.T. 0.00 min

Lab File: BM003826.D

Acq: 28 Dec 2015 13:40

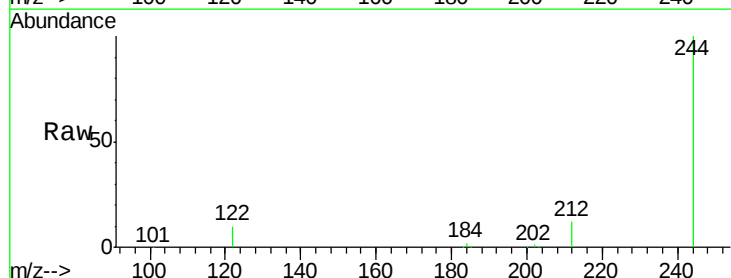
Tgt Ion:244 Resp: 1903620

Ion Ratio Lower Upper

244 100

212 12.0 7.0 10.6#

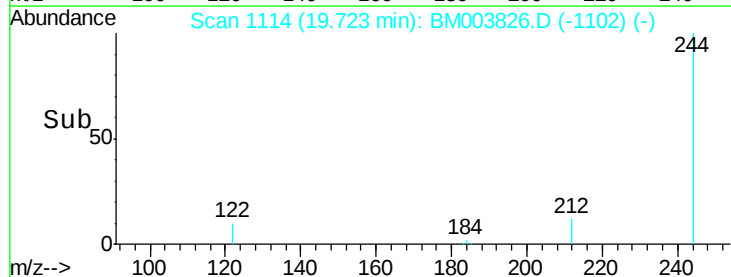
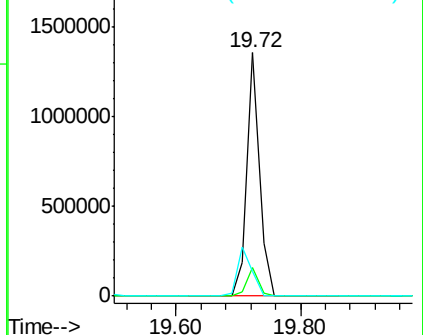
122 10.1 3.0 4.6#

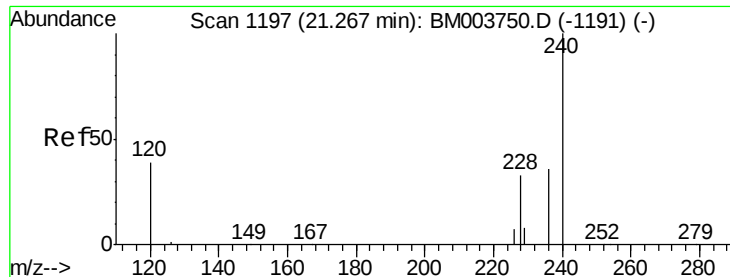


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#30

Benzo(a)anthracene

Concen: 3.88 ng

RT: 21.27 min Scan# 1197

Delta R.T. 0.00 min

Lab File: BM003826.D

Acq: 28 Dec 2015 13:40

Instrument :

BNA_M

ClientSampleId :

LIBERTY-SF-121815

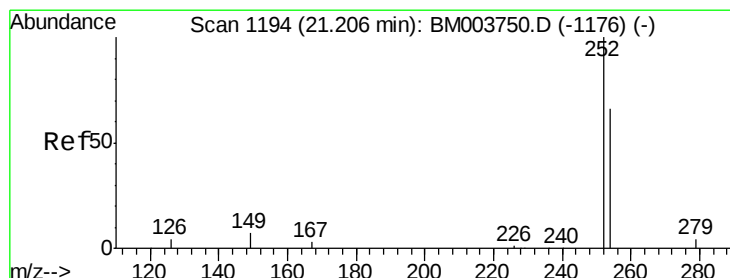
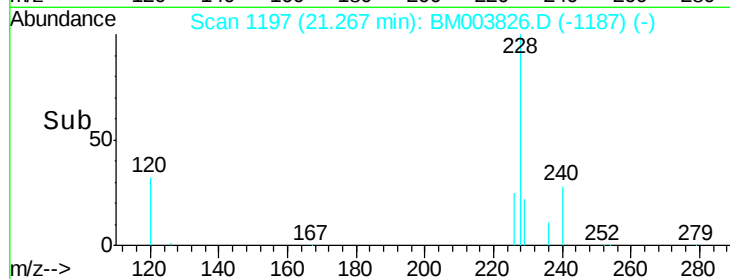
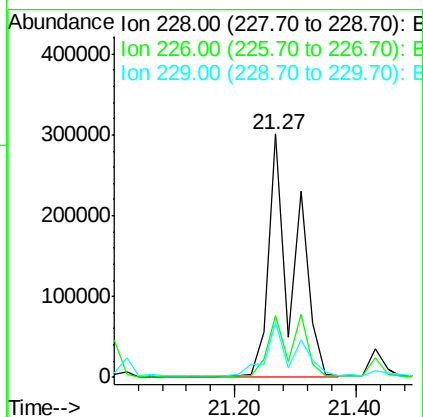
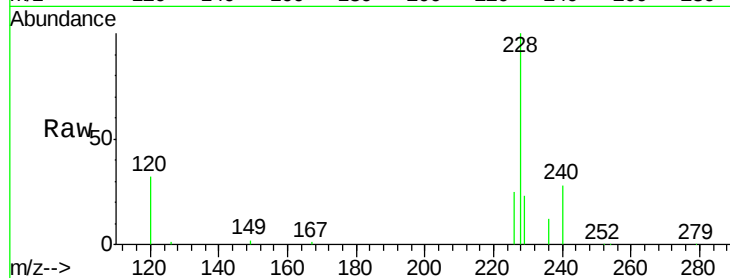
Tgt Ion:228 Resp: 876389

Ion Ratio Lower Upper

228 100

226 25.3 17.2 25.8

229 22.5 18.7 28.1



#31

3,3'-Dichlorobenzidine

Concen: 0.25 ng

RT: 21.08 min Scan# 1188

Delta R.T. -0.12 min

Lab File: BM003826.D

Acq: 28 Dec 2015 13:40

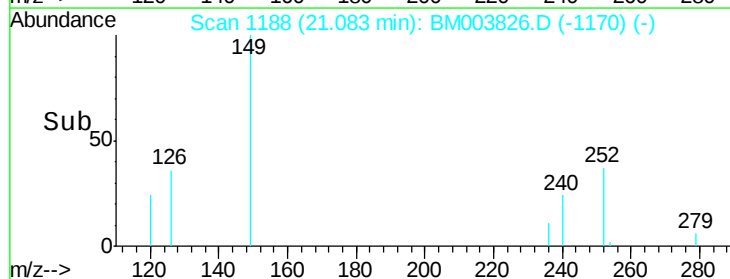
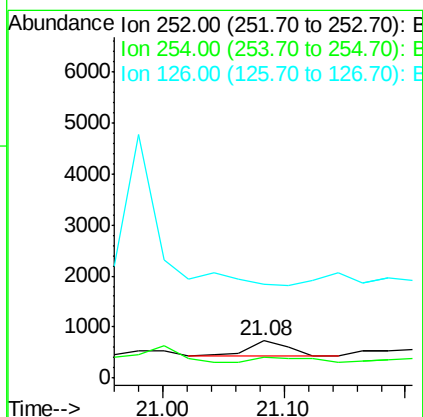
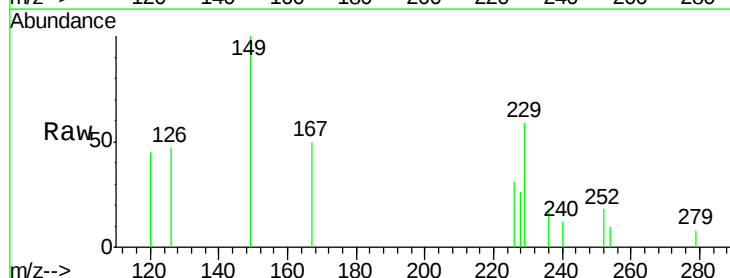
Tgt Ion:252 Resp: 669

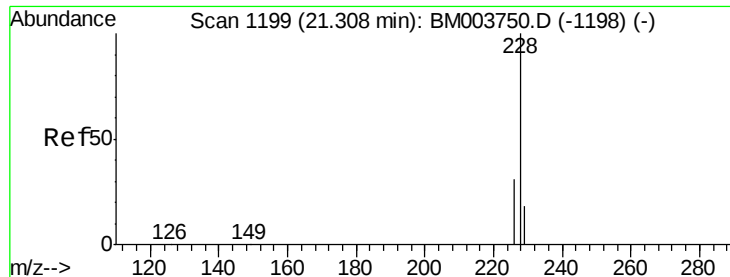
Ion Ratio Lower Upper

252 100

254 55.8 52.6 79.0

126 253.2 3.7 5.5#





#32

Chrysene

Concen: 4.24 ng

RT: 21.27 min Scan# 1197

Delta R.T. -0.04 min

Lab File: BM003826.D

Acq: 28 Dec 2015 13:40

Instrument :

BNA_M

ClientSampleId :

LIBERTY-SF-121815

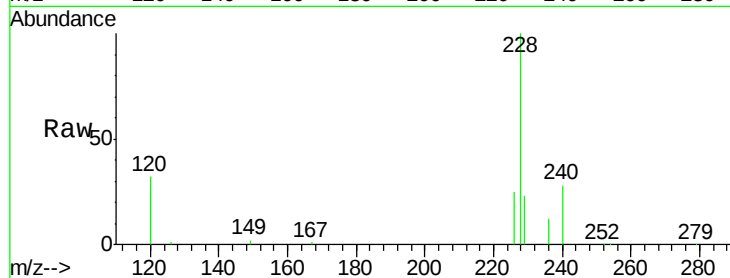
Tgt Ion:228 Resp: 872668

Ion Ratio Lower Upper

228 100

226 25.3 25.3 37.9

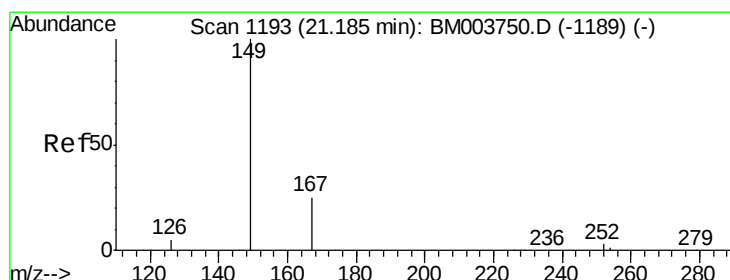
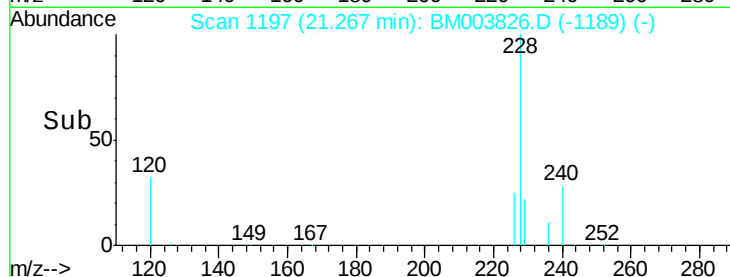
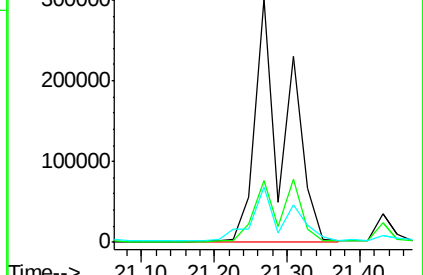
229 22.5 14.5 21.7#



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



#33

Bis(2-ethylhexyl)phthalate

Concen: 1.33 ng

RT: 21.19 min Scan# 1193

Delta R.T. 0.00 min

Lab File: BM003826.D

Acq: 28 Dec 2015 13:40

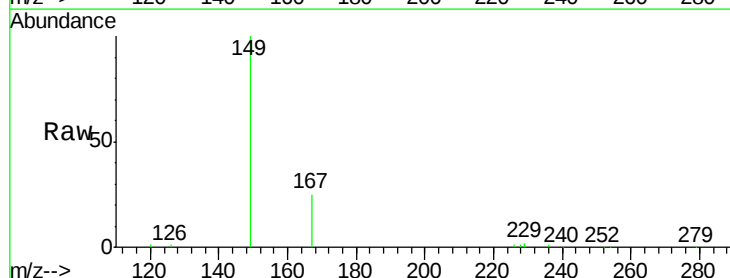
Tgt Ion:149 Resp: 195923

Ion Ratio Lower Upper

149 100

167 25.1 20.1 30.1

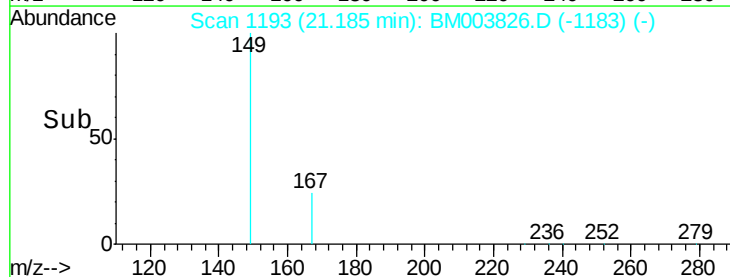
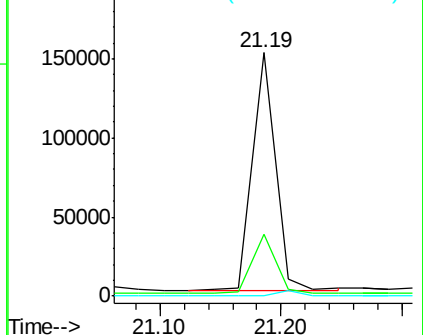
279 0.0 0.0 0.0

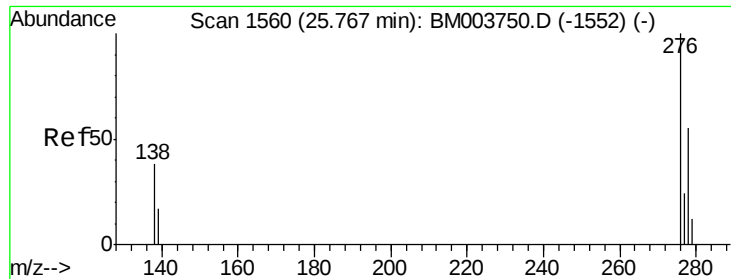


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E





#34

Indeno(1,2,3-cd)pyrene

Concen: 1.30 ng

RT: 25.77 min Scan# 1561

Delta R.T. 0.00 min

Lab File: BM003826.D

Acq: 28 Dec 2015 13:40

Instrument :

BNA_M

ClientSampleId :

LIBERTY-SF-121815

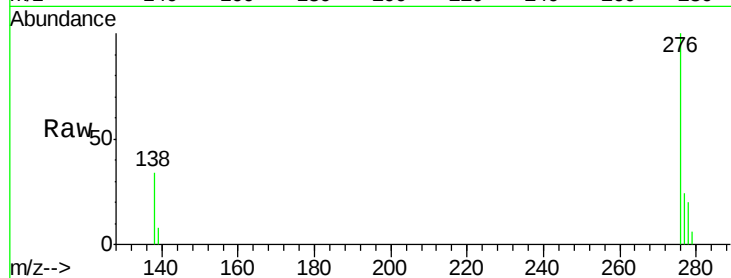
Tgt Ion: 276 Resp: 207345

Ion Ratio Lower Upper

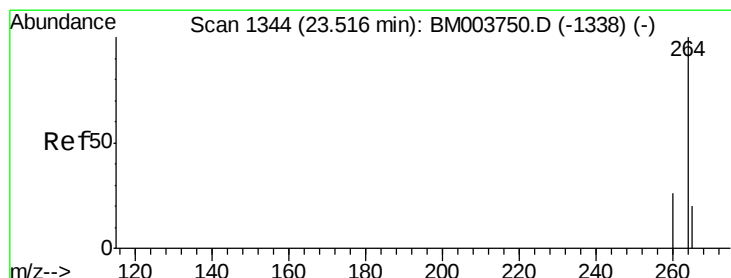
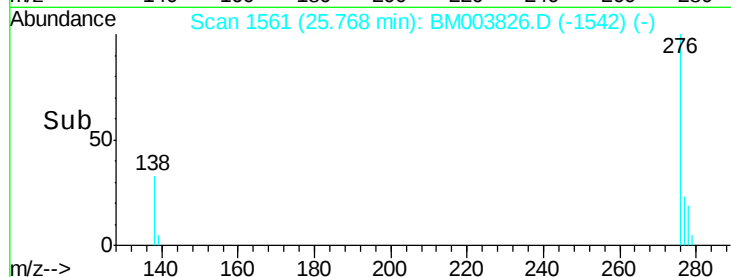
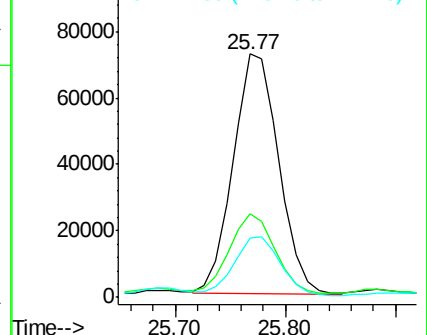
276 100

138 32.3 30.2 45.2

277 24.4 19.8 29.8



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



#35

Perylene-d12

Concen: 5.00 ng

RT: 23.53 min Scan# 1346

Delta R.T. 0.01 min

Lab File: BM003826.D

Acq: 28 Dec 2015 13:40

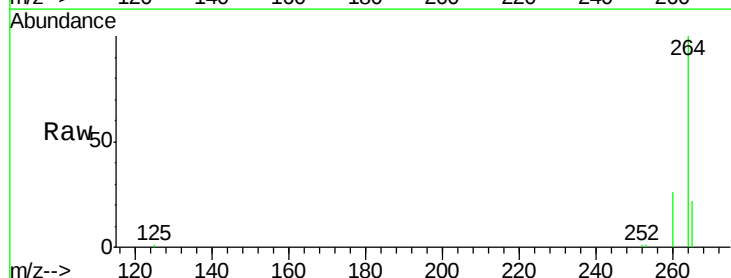
Tgt Ion: 264 Resp: 648116

Ion Ratio Lower Upper

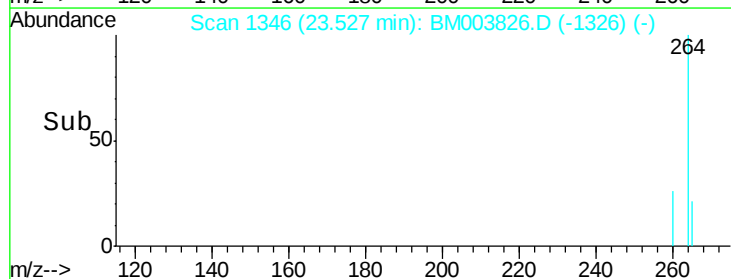
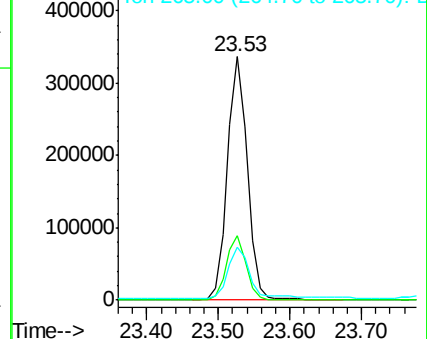
264 100

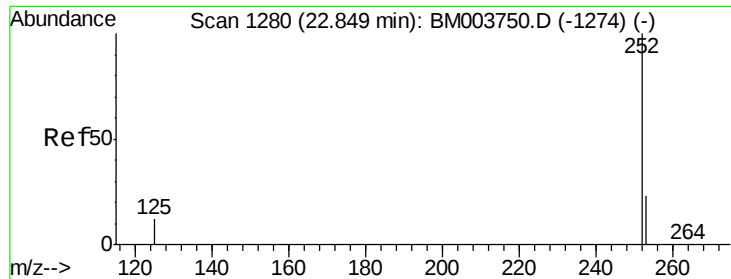
260 26.2 21.2 31.8

265 21.9 16.7 25.1



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





#36

Benzo(b)fluoranthene

Concen: 2.80 ng

RT: 22.85 min Scan# 1281

Delta R.T. 0.00 min

Lab File: BM003826.D

Acq: 28 Dec 2015 13:40

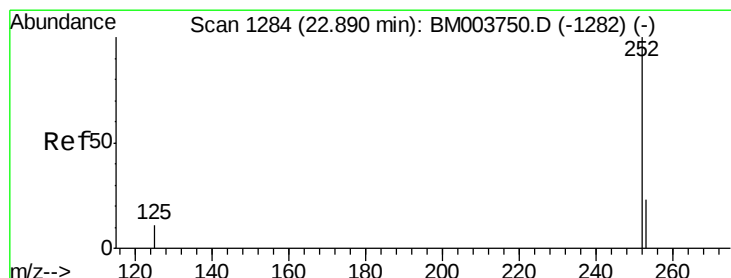
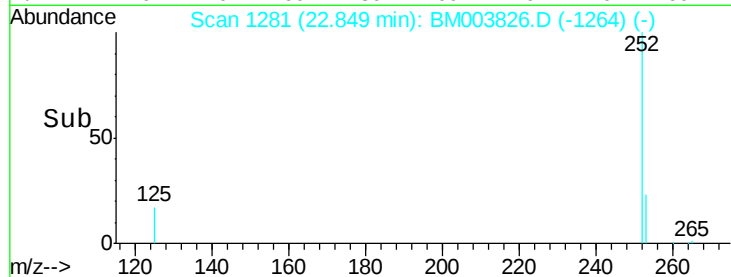
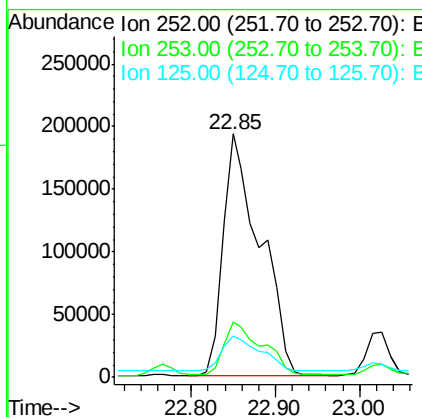
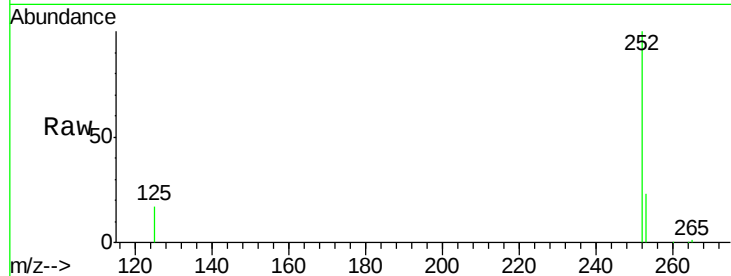
Instrument :

BNA_M

ClientSampleId :

LIBERTY-SF-121815

Tgt Ion:	252	Resp:	593939
Ion Ratio	Lower	Upper	
252	100		
253	22.8	18.8	28.2
125	17.0	10.2	15.4#



#37

Benzo(k)fluoranthene

Concen: 3.04 ng

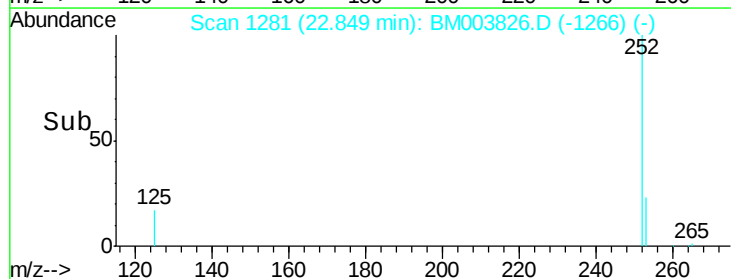
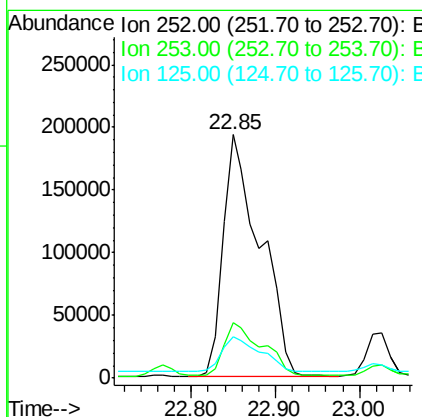
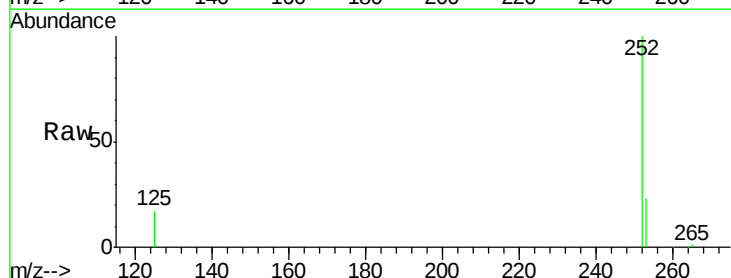
RT: 22.85 min Scan# 1281

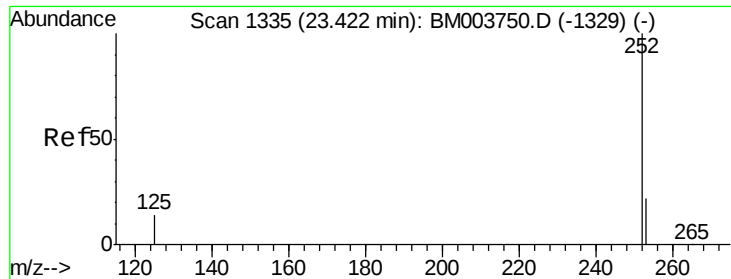
Delta R.T. -0.04 min

Lab File: BM003826.D

Acq: 28 Dec 2015 13:40

Tgt Ion:	252	Resp:	593939
Ion Ratio	Lower	Upper	
252	100		
253	22.8	18.3	27.5
125	17.0	10.6	15.8#





#38

Benzo(a)pyrene

Concen: 1.86 ng

RT: 23.42 min Scan# 1336

Delta R.T. 0.00 min

Lab File: BM003826.D

Acq: 28 Dec 2015 13:40

Instrument :

BNA_M

ClientSampleId :

LIBERTY-SF-121815

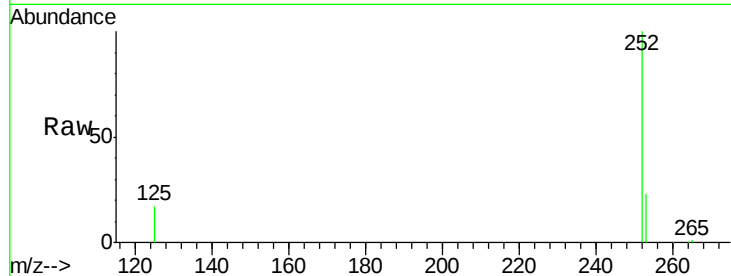
Tgt Ion: 252 Resp: 336947

Ion Ratio Lower Upper

252 100

253 23.0 18.7 28.1

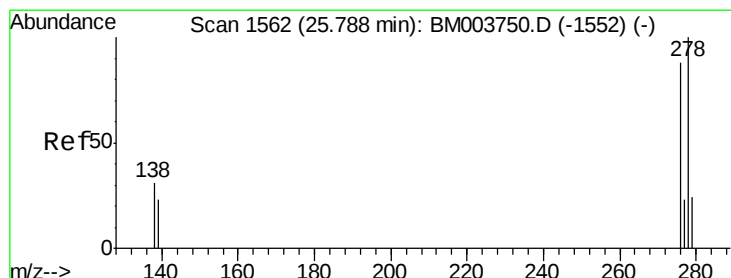
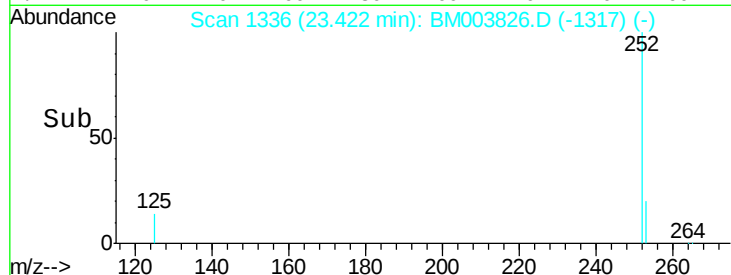
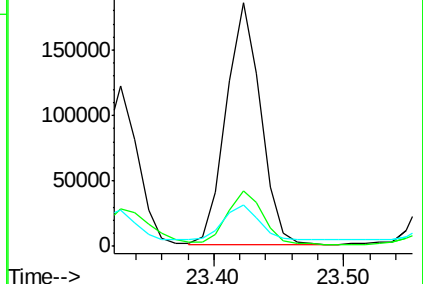
125 17.1 11.8 17.8



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



#39

Dibenzo(a,h)anthracene

Concen: 0.36 ng

RT: 25.78 min Scan# 1562

Delta R.T. -0.01 min

Lab File: BM003826.D

Acq: 28 Dec 2015 13:40

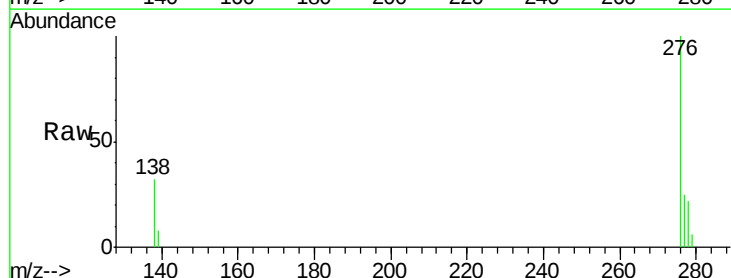
Tgt Ion: 278 Resp: 50788

Ion Ratio Lower Upper

278 100

139 35.3 19.0 28.6#

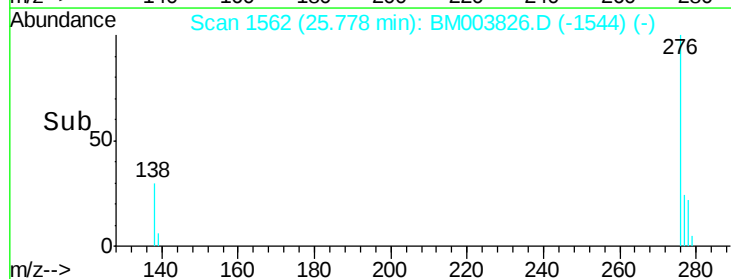
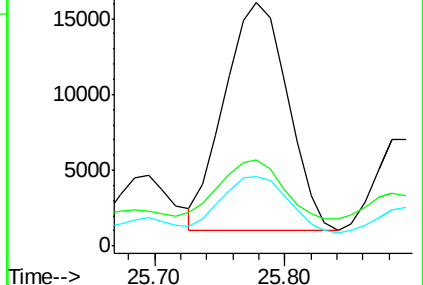
279 28.8 19.6 29.4

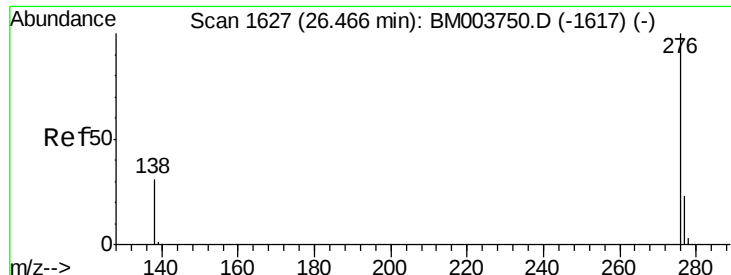


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#40

Benzo(g,h,i)perylene

Concen: 1.39 ng

RT: 26.47 min Scan# 1628

Delta R.T. 0.00 min

Lab File: BM003826.D

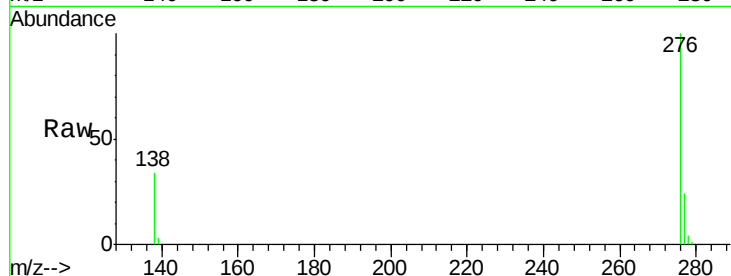
Acq: 28 Dec 2015 13:40

Instrument :

BNA_M

ClientSampleId :

LIBERTY-SF-121815



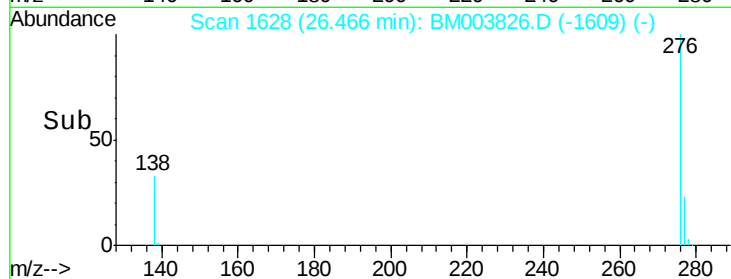
Tgt Ion: 276 Resp: 207444

Ion Ratio Lower Upper

276 100

277 24.2 19.1 28.7

138 34.1 25.0 37.4



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

