

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM122915\
 Data File : BM003827.D
 Acq On : 28 Dec 2015 14:16
 Operator : UM/SJ
 Sample : G4836-11
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 LIBERTY-SF-003

Quant Time: Dec 29 01:22:42 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	229357	5.00	ng	0.00
7) Naphthalene-d8	10.46	136	959090	5.00	ng	-0.02
13) Acenaphthene-d10	14.33	164	536145	5.00	ng	0.00
19) Phenanthrene-d10	17.06	188	949631	5.00	ng	0.00
26) Chrysene-d12	21.29	240	926409	5.00	ng	0.00
35) Perylene-d12	23.53	264	663898	5.00	ng	0.01

System Monitoring Compounds						
4) 2-Fluorophenol	5.28	112	1085793	20.04	ng	0.02
5) Phenol-d6	6.87	99	1790111	26.97	ng	0.00
8) Nitrobenzene-d5	8.85	82	1113149	21.90	ng	0.00
14) 2,4,6-Tribromophenol	15.84	330	102053	6.09	ng	0.00
15) 2-Fluorobiphenyl	12.95	172	2709934	16.52	ng	0.00
29) Terphenyl-d14	19.72	244	1905147	13.12	ng	0.00

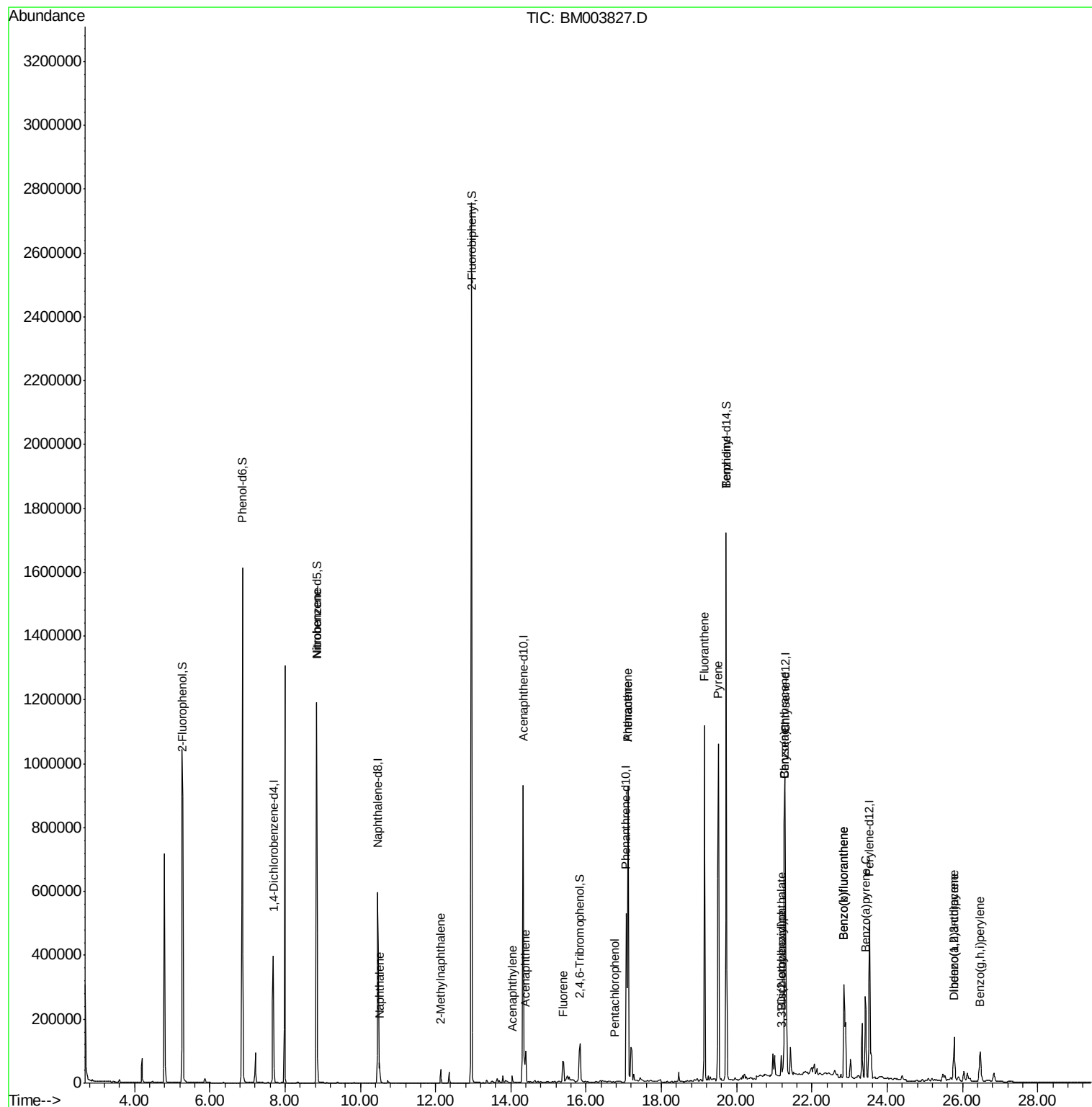
Target Compounds				Qvalue		
2) 1,4-Dioxane	3.31	88	41	Below Cal	#	25
9) Nitrobenzene	8.84	77	3546	0.06	ng	# 33
10) Naphthalene	10.51	128	82257	0.38	ng	99
12) 2-Methylnaphthalene	12.13	142	34764	0.24	ng	# 88
16) Acenaphthylene	14.04	152	20435	0.08	ng	# 94
17) Acenaphthene	14.39	154	75236	0.51	ng	96
18) Fluorene	15.39	166	79979	0.44	ng	# 12
20) 4-Bromophenyl-phenylether	16.27	248	35	Below Cal	#	43
21) Hexachlorobenzene	16.40	284	35	Below Cal	#	48
22) Pentachlorophenol	16.76	266	80	0.38	ng	# 63
23) Phenanthrene	17.11	178	1107608	4.37	ng	98
24) Anthracene	17.11	178	1105206	4.70	ng	98
25) Fluoranthene	19.14	202	1319853	4.34	ng	100
27) Benzidine	19.72	184	54133	0.97	ng	# 79
28) Pyrene	19.52	202	1214868	3.95	ng	# 92
30) Benzo(a)anthracene	21.27	228	1041969	3.75	ng	94
31) 3,3'-Dichlorobenzidine	21.21	252	474	0.25	ng	# 1
32) Chrysene	21.27	228	1039471	4.10	ng	90
33) Bis(2-ethylhexyl)phthalate	21.19	149	69426	0.52	ng	# 99
34) Indeno(1,2,3-cd)pyrene	25.78	276	197650	1.01	ng	94
36) Benzo(b)fluoranthene	22.85	252	677947	3.12	ng	# 93
37) Benzo(k)fluoranthene	22.85	252	677947	3.39	ng	# 94
38) Benzo(a)pyrene	23.42	252	353493	1.90	ng	# 95
39) Dibenzo(a,h)anthracene	25.79	278	49044	0.34	ng	# 83
40) Benzo(g,h,i)perylene	26.47	276	188174	1.23	ng	96

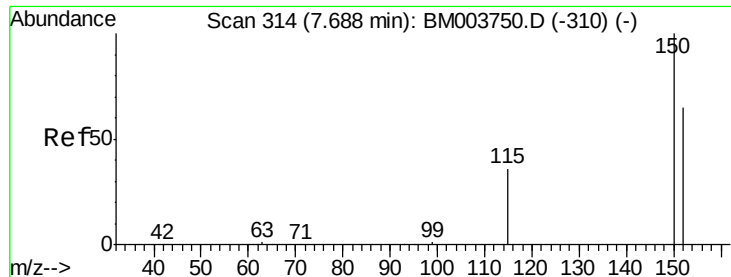
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: BM003827.D

Acq: 28 Dec 2015 14:16

Instrument :

BNA_M

ClientSampleId :

LIBERTY-SF-003

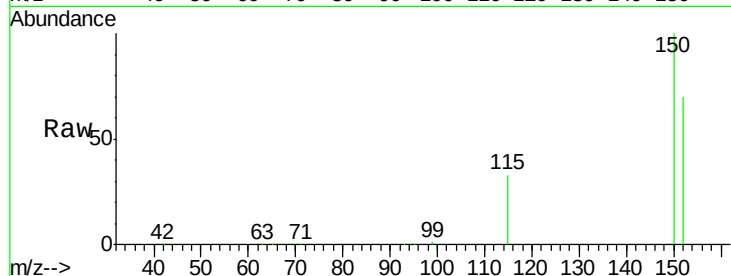
Tgt Ion:152 Resp: 229357

Ion Ratio Lower Upper

152 100

150 142.8 122.9 184.3

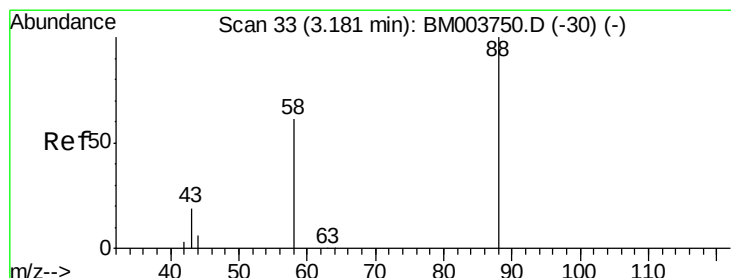
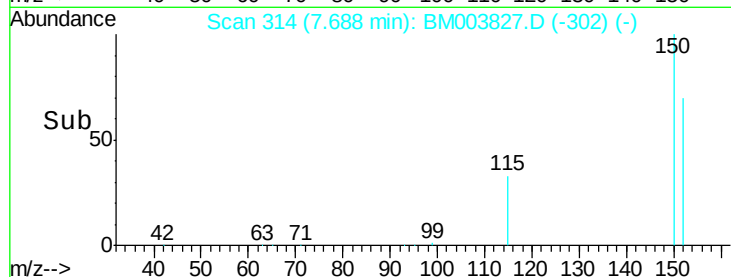
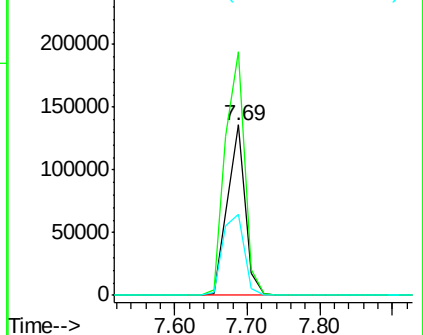
115 47.7 44.4 66.6



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: Below Cal

RT: 3.31 min Scan# 41

Delta R.T. 0.12 min

Lab File: BM003827.D

Acq: 28 Dec 2015 14:16

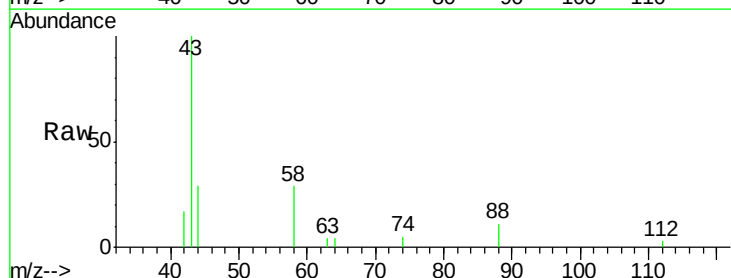
Tgt Ion: 88 Resp: 41

Ion Ratio Lower Upper

88 100

58 0.0 53.8 80.6#

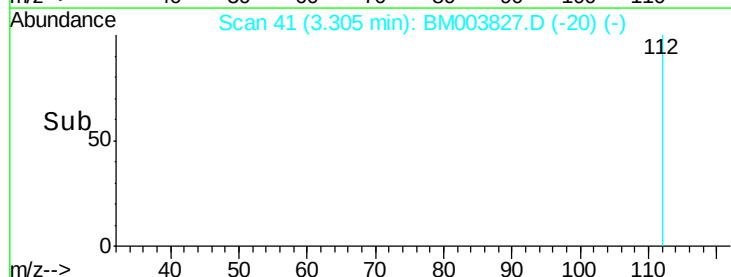
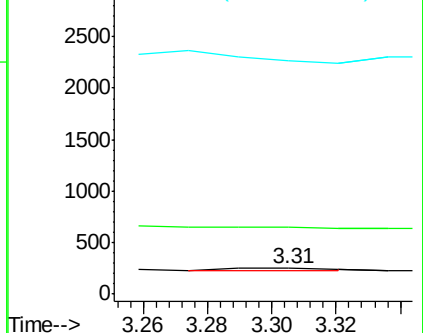
43 0.0 23.8 35.6#

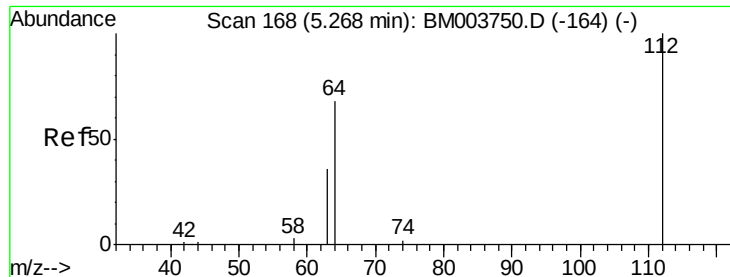


Abundance Ion 88.00 (87.70 to 88.70): BM0

Ion 58.00 (57.70 to 58.70): BM0

Ion 43.00 (42.70 to 43.70): BM0





#4

2-Fluorophenol

Concen: 20.04 ng

RT: 5.28 min Scan# 169

Delta R.T. 0.02 min

Lab File: BM003827.D

Acq: 28 Dec 2015 14:16

Instrument :

BNA_M

ClientSampleId :

LIBERTY-SF-003

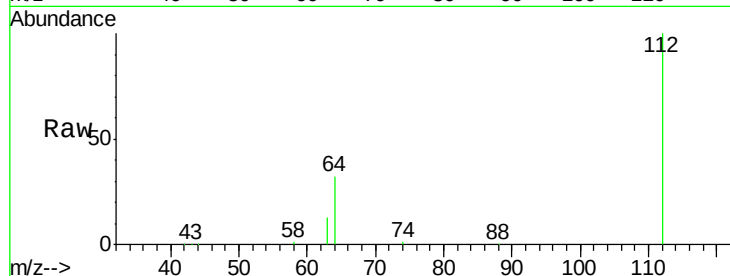
Tgt Ion:112 Resp: 1085793

Ion Ratio Lower Upper

112 100

64 51.7 41.8 62.8

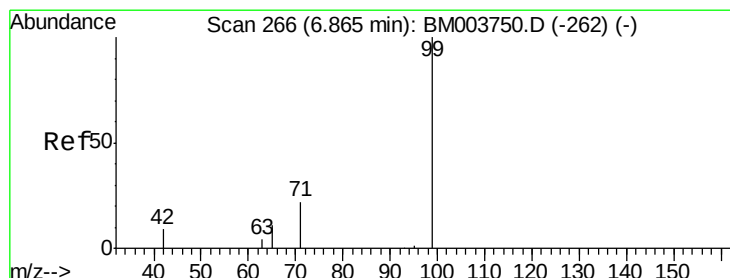
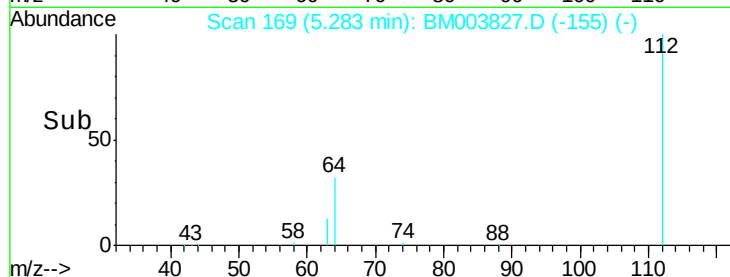
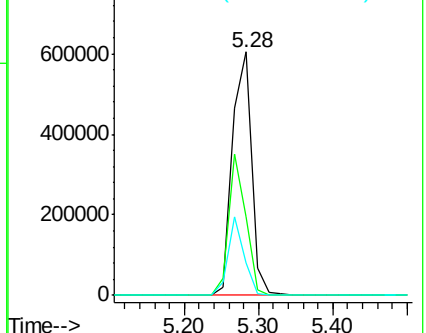
63 27.0 22.1 33.1



Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BM0

Ion 63.00 (62.70 to 63.70): BM0



#5

Phenol-d6

Concen: 26.97 ng

RT: 6.87 min Scan# 266

Delta R.T. 0.00 min

Lab File: BM003827.D

Acq: 28 Dec 2015 14:16

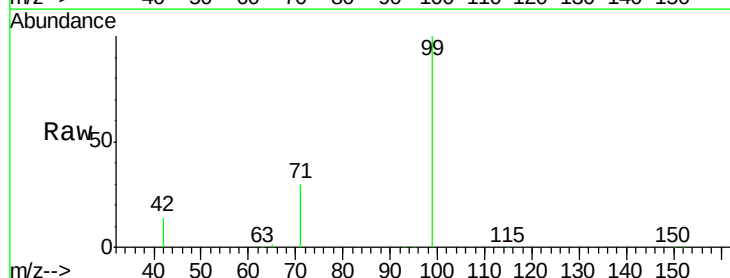
Tgt Ion: 99 Resp: 1790111

Ion Ratio Lower Upper

99 100

42 18.6 16.2 24.2

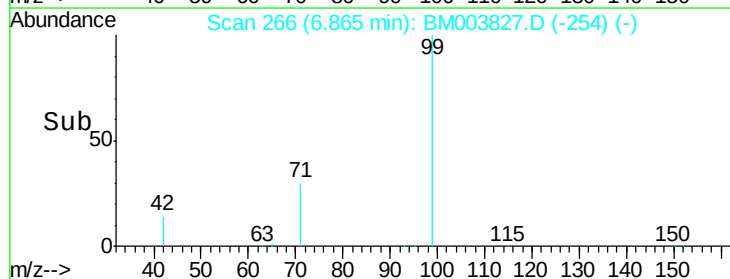
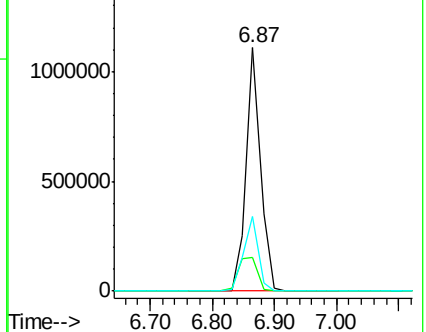
71 31.0 24.4 36.6

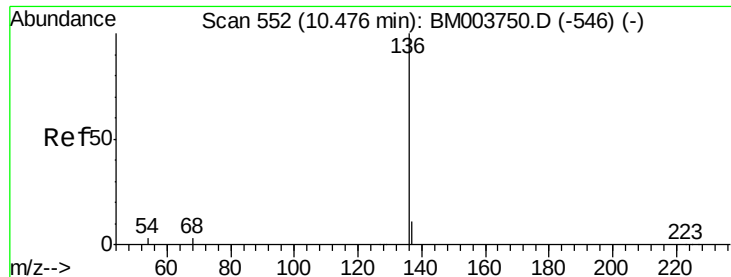


Abundance Ion 99.00 (98.70 to 99.70): BM0

Ion 42.00 (41.70 to 42.70): BM0

Ion 71.00 (70.70 to 71.70): BM0





#7

Naphthalene-d8

Concen: 5.00 ng

RT: 10.46 min Scan# 551

Delta R.T. -0.02 min

Lab File: BM003827.D

Acq: 28 Dec 2015 14:16

Instrument :

BNA_M

ClientSampleId :

LIBERTY-SF-003

Tgt Ion:136 Resp: 959090

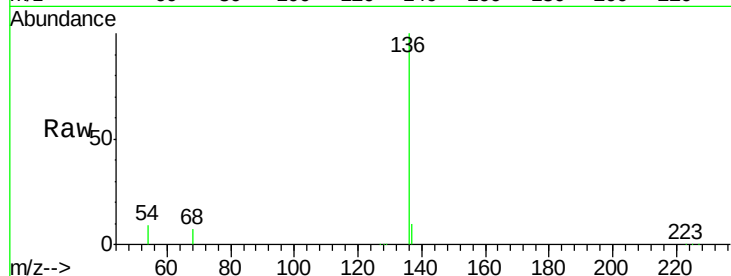
Ion Ratio Lower Upper

136 100

137 10.3 9.2 13.8

54 9.0 2.8 4.2#

68 6.6 2.5 3.7#

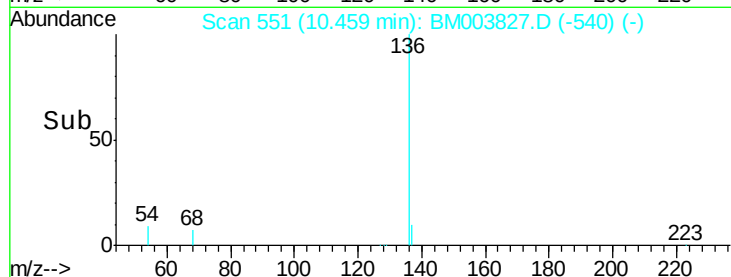


Abundance Ion 136.00 (135.70 to 136.70): E

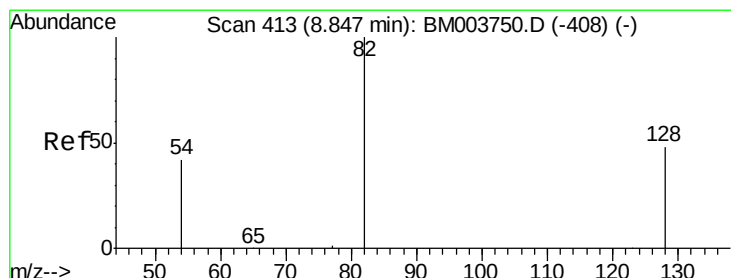
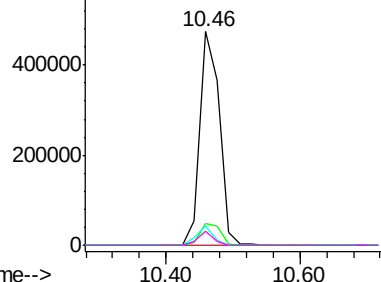
Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BM

Ion 68.00 (67.70 to 68.70): BM



Time-->



#8

Nitrobenzene-d5

Concen: 21.90 ng

RT: 8.85 min Scan# 413

Delta R.T. 0.00 min

Lab File: BM003827.D

Acq: 28 Dec 2015 14:16

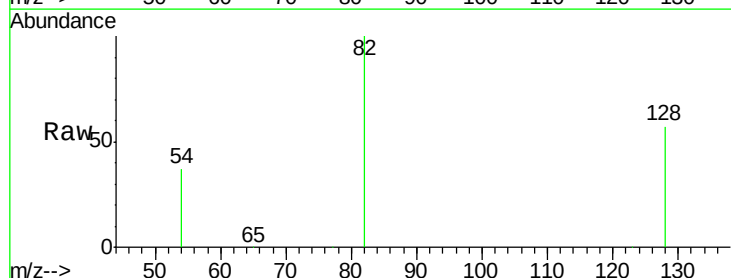
Tgt Ion: 82 Resp: 1113149

Ion Ratio Lower Upper

82 100

128 56.9 39.1 58.7

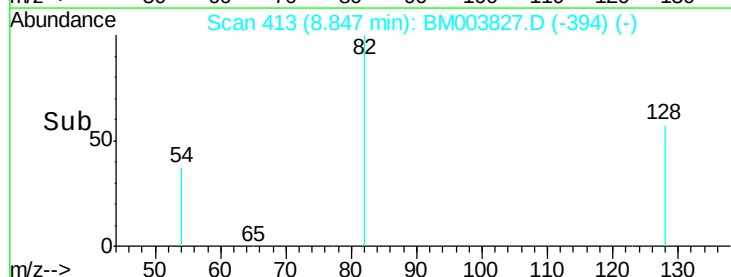
54 37.4 34.8 52.2



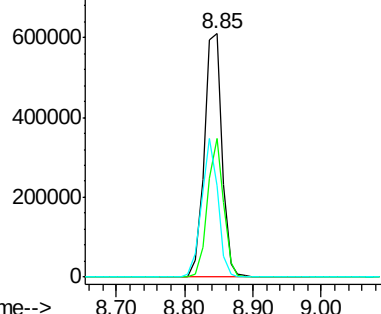
Abundance Ion 82.00 (81.70 to 82.70): BM

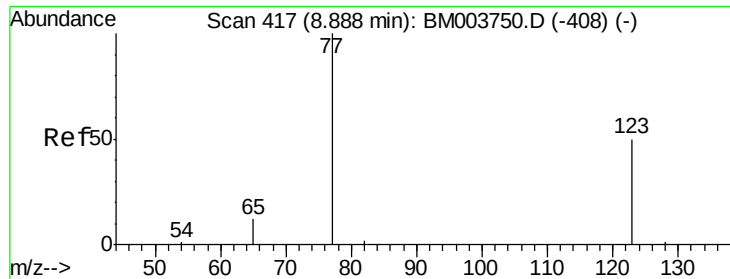
Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BM



Time-->





#9

Nitrobenzene

Concen: 0.06 ng

RT: 8.84 min Scan# 412

Delta R.T. -0.05 min

Lab File: BM003827.D

Acq: 28 Dec 2015 14:16

Instrument :

BNA_M

ClientSampleId :

LIBERTY-SF-003

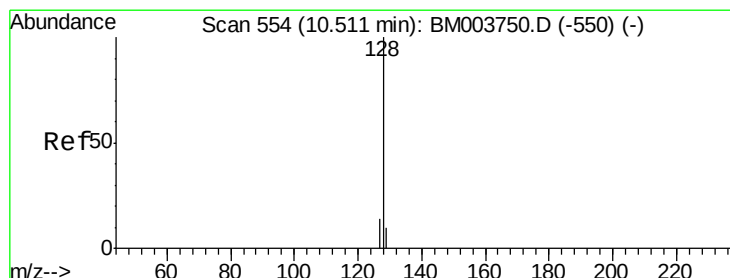
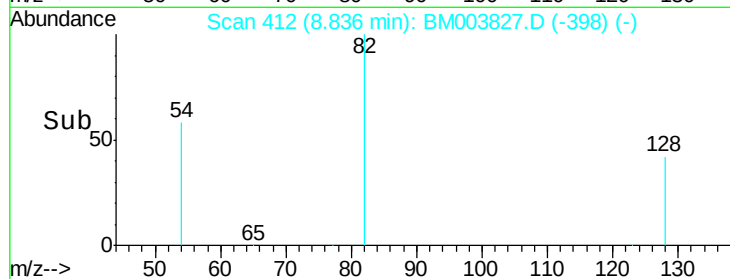
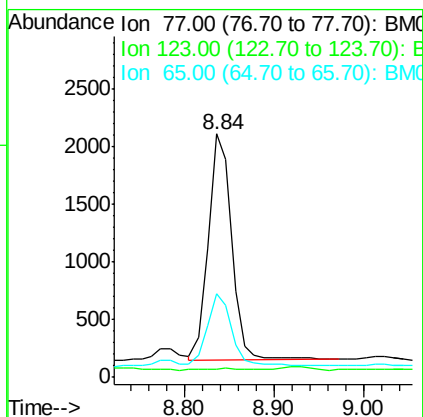
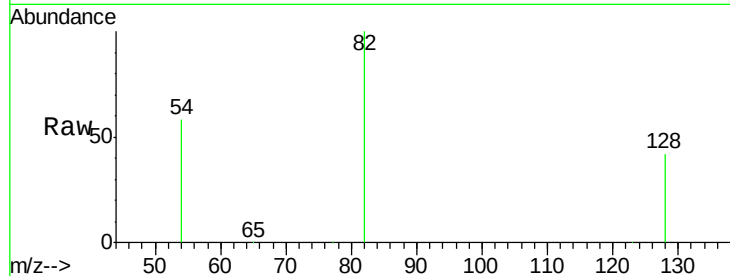
Tgt Ion: 77 Resp: 3546

Ion Ratio Lower Upper

77 100

123 0.8 38.6 57.8#

65 33.5 9.9 14.9#



#10

Naphthalene

Concen: 0.38 ng

RT: 10.51 min Scan# 554

Delta R.T. 0.00 min

Lab File: BM003827.D

Acq: 28 Dec 2015 14:16

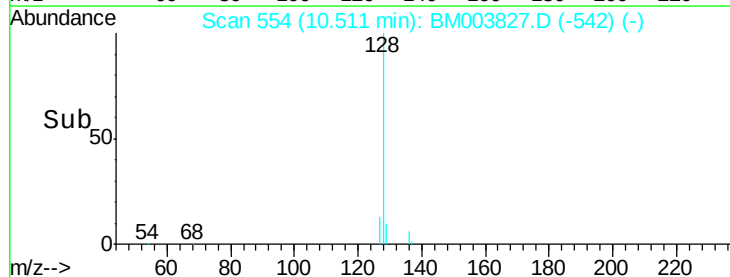
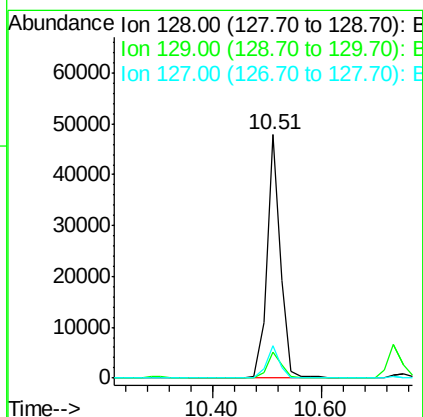
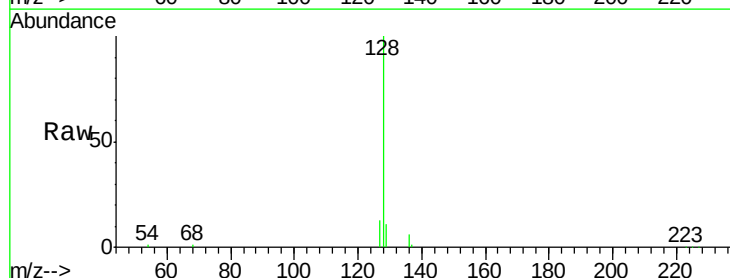
Tgt Ion: 128 Resp: 82257

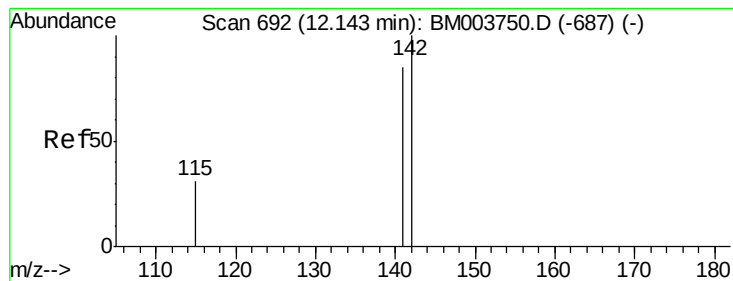
Ion Ratio Lower Upper

128 100

129 10.8 8.5 12.7

127 13.1 11.0 16.4





#12

2-Methylnaphthalene

Concen: 0.24 ng

RT: 12.13 min Scan# 691

Delta R.T. -0.01 min

Lab File: BM003827.D

Acq: 28 Dec 2015 14:16

Instrument :

BNA_M

ClientSampleId :

LIBERTY-SF-003

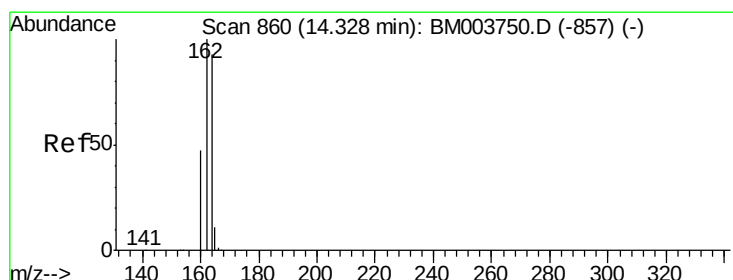
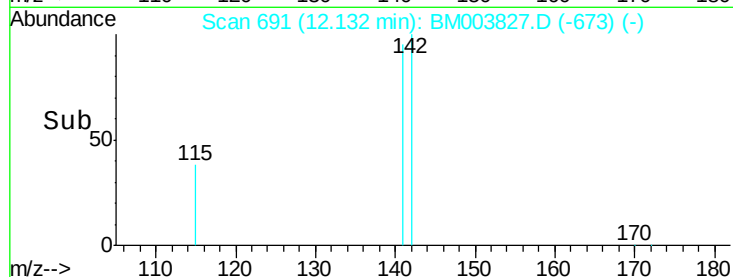
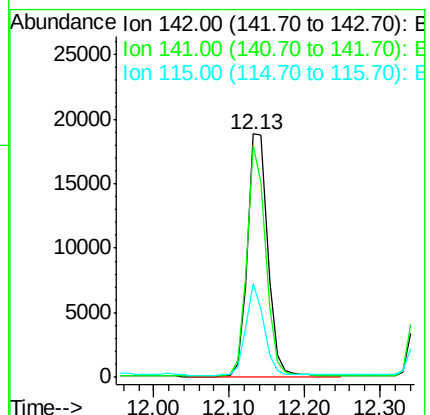
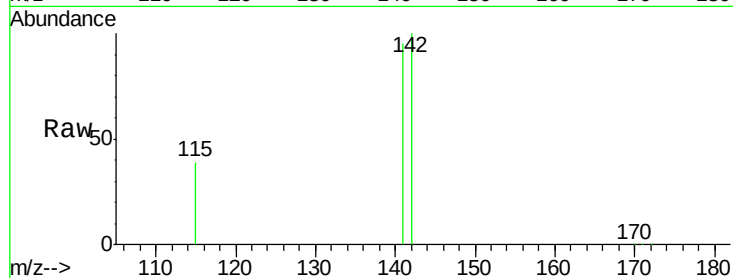
Tgt Ion:142 Resp: 34764

Ion Ratio Lower Upper

142 100

141 95.3 67.8 101.8

115 38.8 25.3 37.9#



#13

Acenaphthene-d10

Concen: 5.00 ng

RT: 14.33 min Scan# 860

Delta R.T. 0.00 min

Lab File: BM003827.D

Acq: 28 Dec 2015 14:16

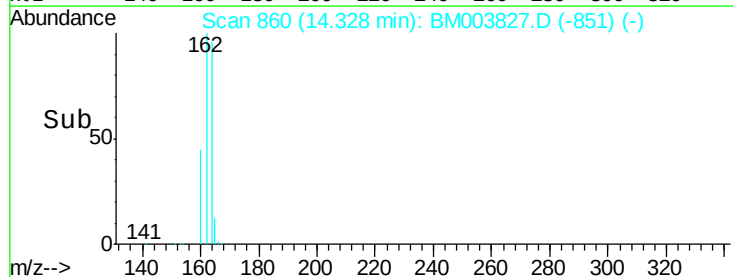
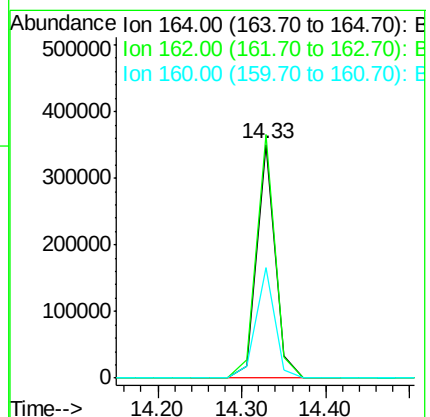
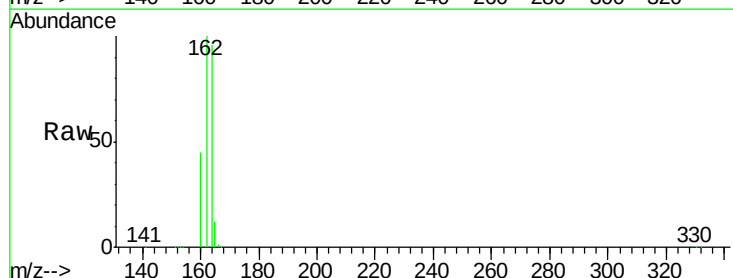
Tgt Ion:164 Resp: 536145

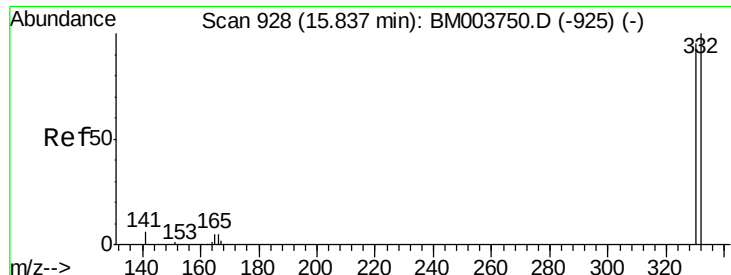
Ion Ratio Lower Upper

164 100

162 104.3 86.0 129.0

160 47.3 40.3 60.5

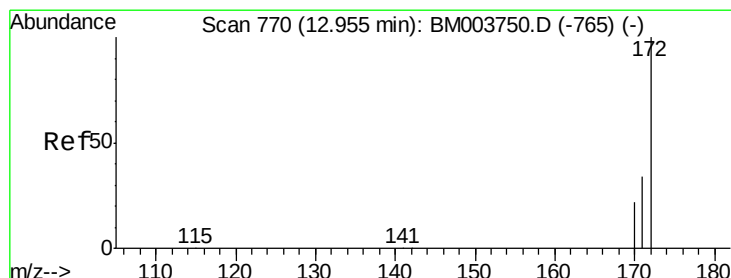
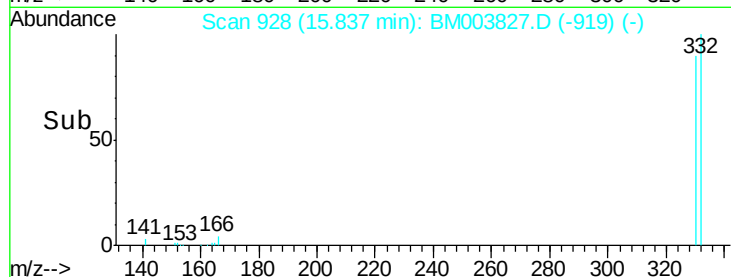
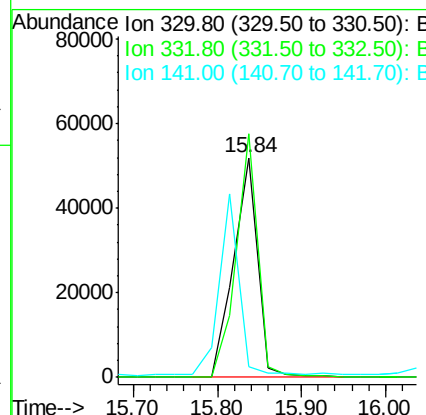
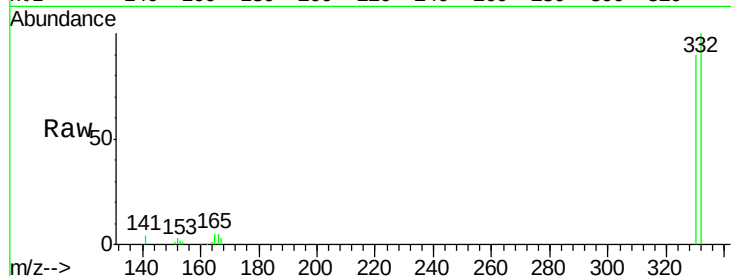




#14
 2,4,6-Tribromophenol
 Concen: 6.09 ng
 RT: 15.84 min Scan# 928
 Delta R.T. 0.00 min
 Lab File: BM003827.D
 Acq: 28 Dec 2015 14:16

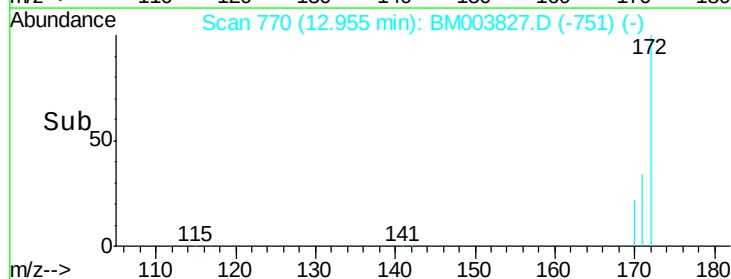
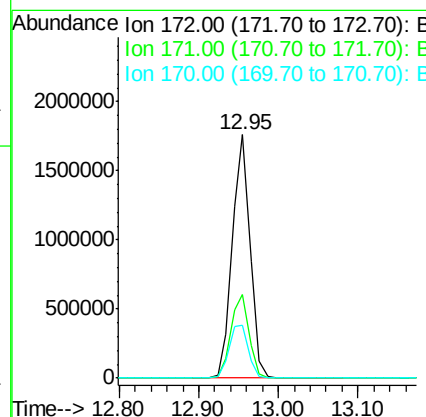
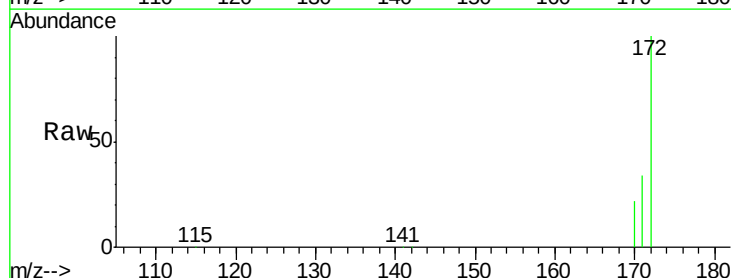
Instrument :
 BNA_M
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 LIBERTY-SF-003

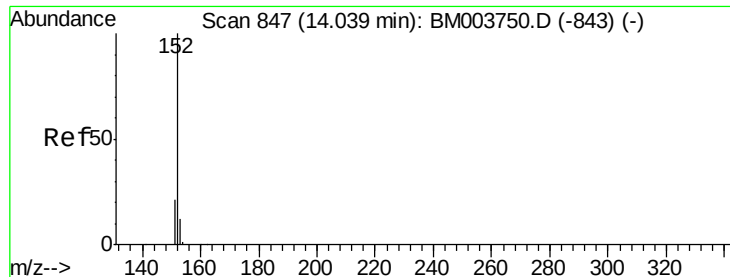
Tgt Ion:330 Resp: 102053
 Ion Ratio Lower Upper
 330 100
 332 99.2 79.0 118.4
 141 0.0 0.0 0.0



#15
 2-Fluorobiphenyl
 Concen: 16.52 ng
 RT: 12.95 min Scan# 770
 Delta R.T. 0.00 min
 Lab File: BM003827.D
 Acq: 28 Dec 2015 14:16

Tgt Ion:172 Resp: 2709934
 Ion Ratio Lower Upper
 172 100
 171 34.2 27.0 40.6
 170 21.9 17.9 26.9





#16

Acenaphthylene

Concen: 0.08 ng

RT: 14.04 min Scan# 847

Delta R.T. 0.00 min

Lab File: BM003827.D

Acq: 28 Dec 2015 14:16

Instrument :

BNA_M

ClientSampleId :

LIBERTY-SF-003

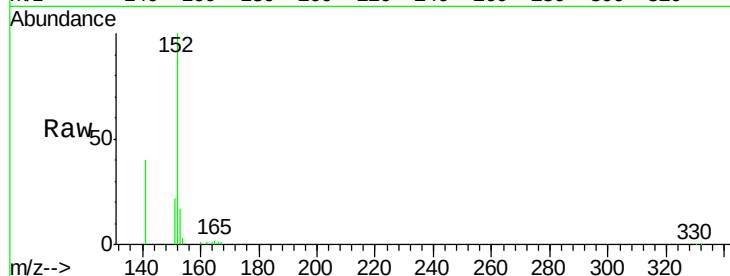
Tgt Ion:152 Resp: 20435

Ion Ratio Lower Upper

152 100

151 21.2 15.8 23.8

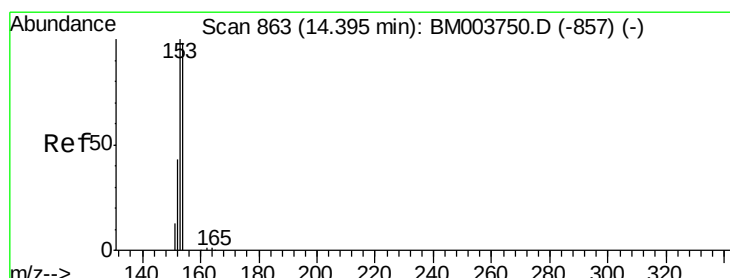
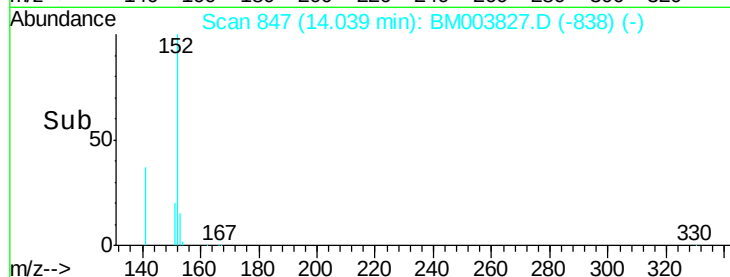
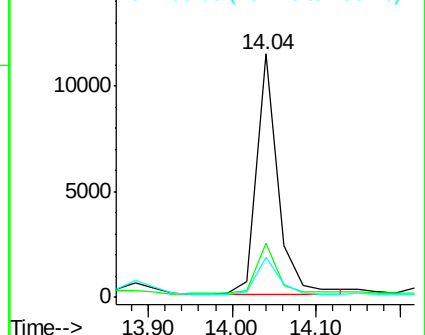
153 17.2 10.2 15.4#



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



#17

Acenaphthene

Concen: 0.51 ng

RT: 14.39 min Scan# 863

Delta R.T. 0.00 min

Lab File: BM003827.D

Acq: 28 Dec 2015 14:16

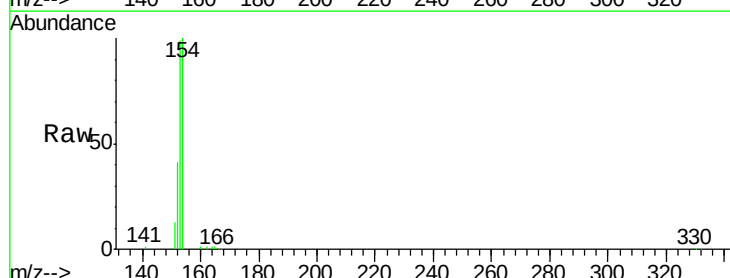
Tgt Ion:154 Resp: 75236

Ion Ratio Lower Upper

154 100

153 109.7 85.4 128.2

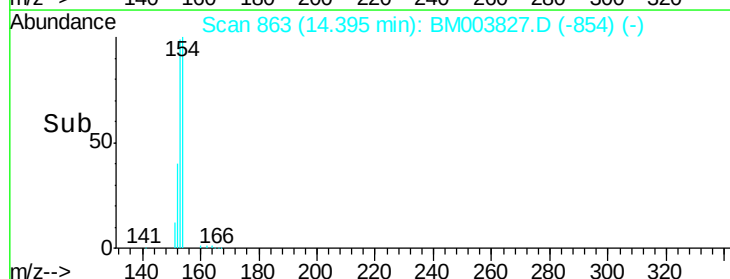
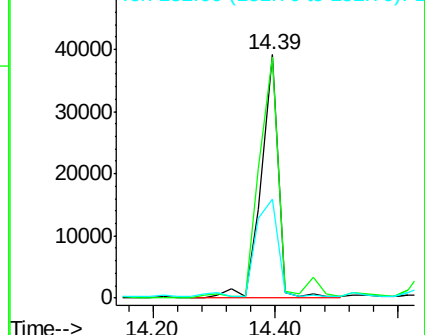
152 54.2 40.6 60.8

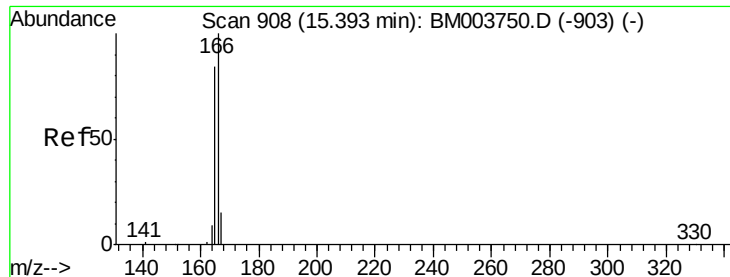


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E





#18

Fluorene

Concen: 0.44 ng

RT: 15.39 min Scan# 908

Delta R.T. 0.00 min

Lab File: BM003827.D

Acq: 28 Dec 2015 14:16

Instrument :

BNA_M

ClientSampleId :

LIBERTY-SF-003

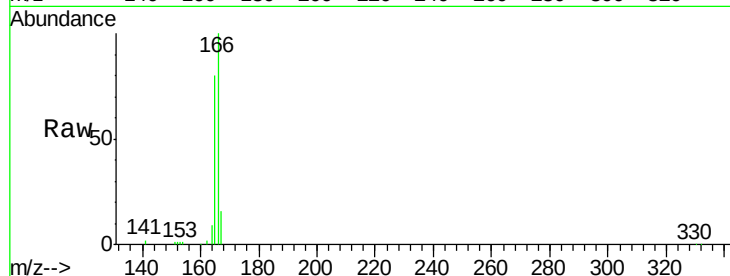
Tgt Ion:166 Resp: 79979

Ion Ratio Lower Upper

166 100

165 0.0 77.2 115.8#

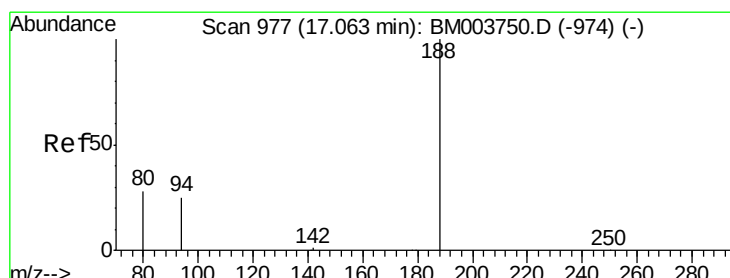
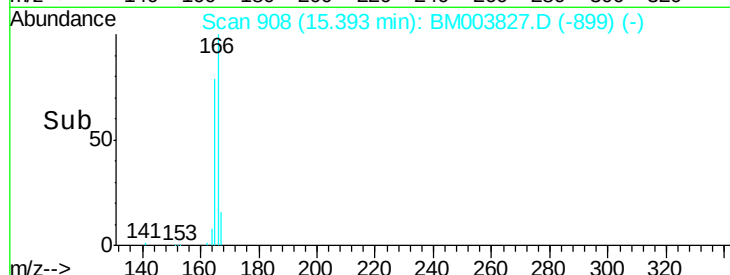
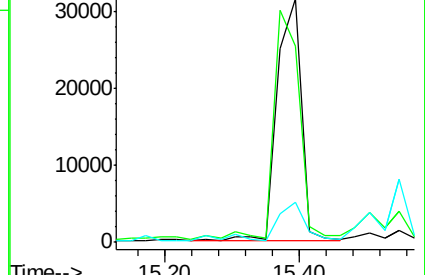
167 20.8 11.0 16.6#



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: BM003827.D

Acq: 28 Dec 2015 14:16

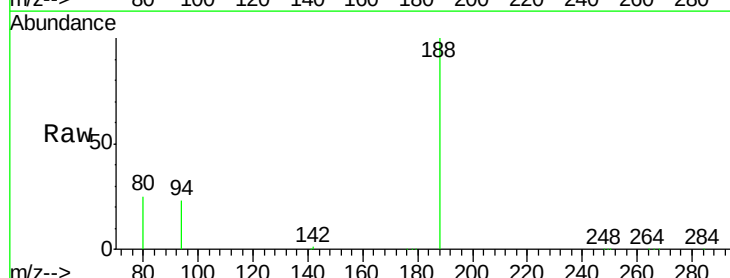
Tgt Ion:188 Resp: 949631

Ion Ratio Lower Upper

188 100

94 23.1 20.3 30.5

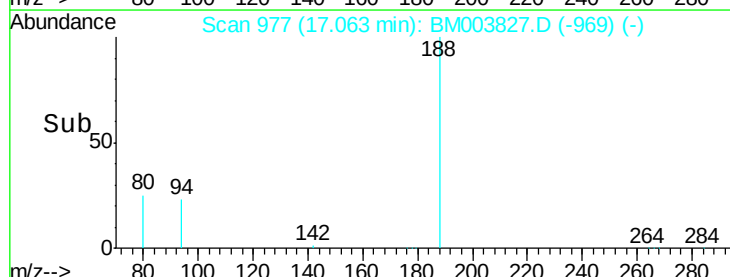
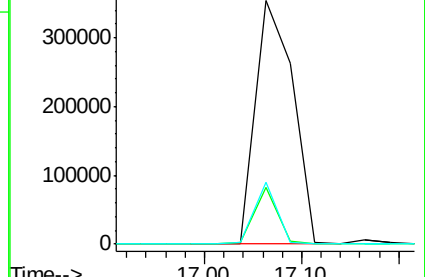
80 25.3 22.2 33.4

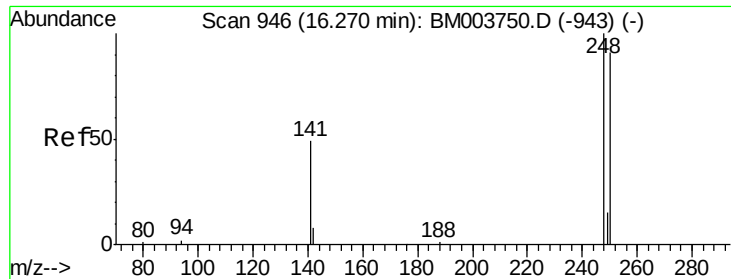


Abundance Ion 188.00 (187.70 to 188.70): E

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: BM003827.D

Acq: 28 Dec 2015 14:16

Instrument :

BNA_M

ClientSampleId :

LIBERTY-SF-003

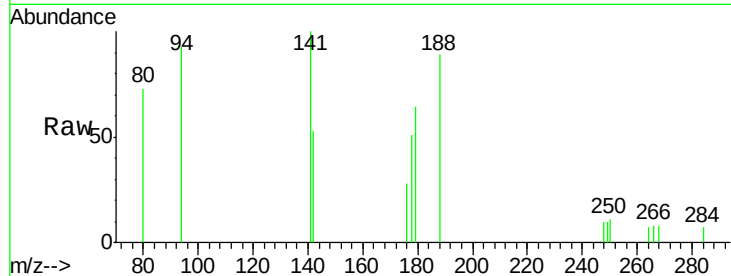
Tgt Ion:248 Resp: 35

Ion Ratio Lower Upper

248 100

250 57.1 75.0 112.4#

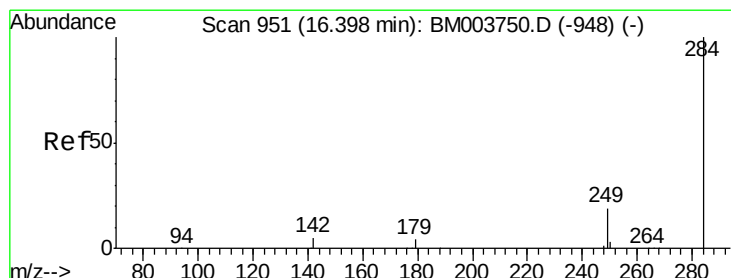
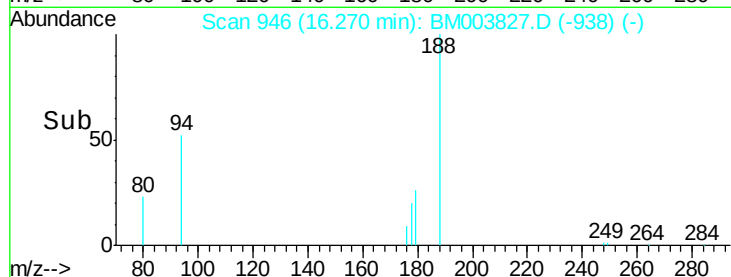
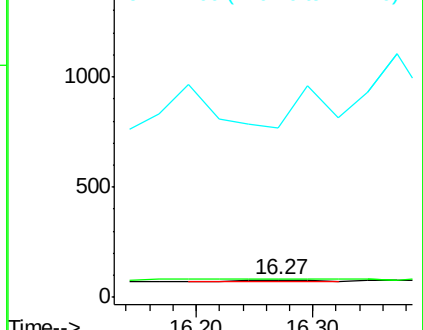
141 0.0 53.0 79.4#



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: BM003827.D

Acq: 28 Dec 2015 14:16

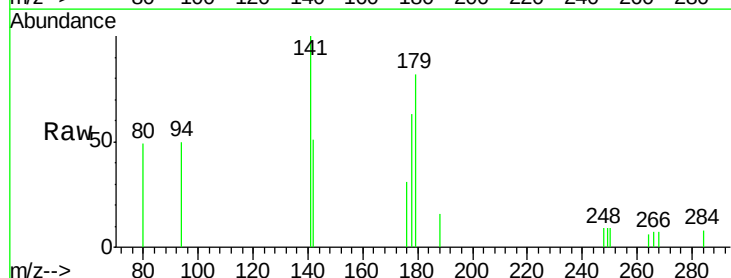
Tgt Ion:284 Resp: 35

Ion Ratio Lower Upper

284 100

142 0.0 0.0 0.0

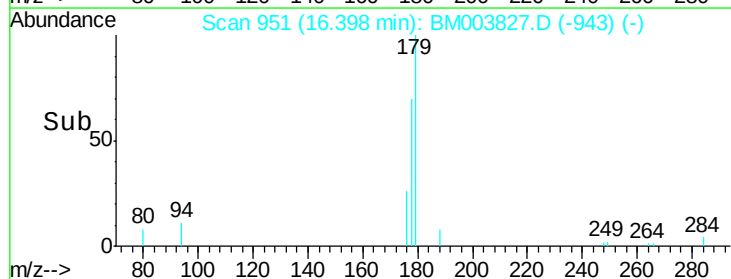
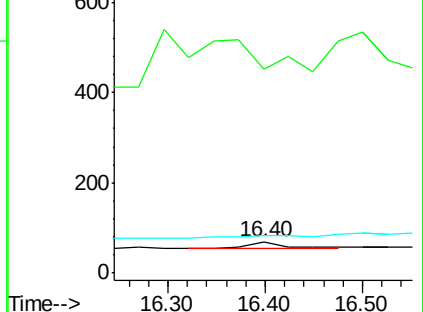
249 0.0 21.5 32.3#

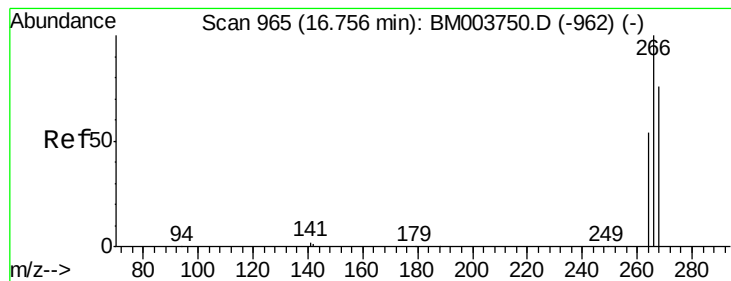


Abundance Ion 283.80 (283.50 to 284.50): E

Ion 142.00 (141.70 to 142.70): E

Ion 249.00 (248.70 to 249.70): E





#22

Pentachlorophenol

Concen: 0.38 ng

RT: 16.76 min Scan# 965

Delta R.T. 0.00 min

Lab File: BM003827.D

Acq: 28 Dec 2015 14:16

Instrument :

BNA_M

ClientSampleId :

LIBERTY-SF-003

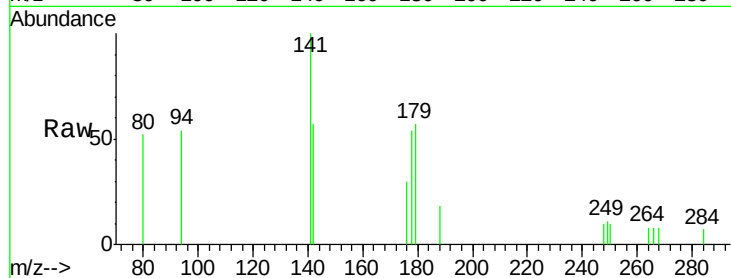
Tgt Ion:266 Resp: 80

Ion Ratio Lower Upper

266 100

268 100.0 62.7 94.1#

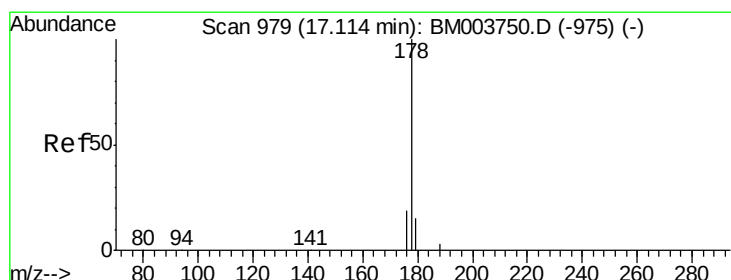
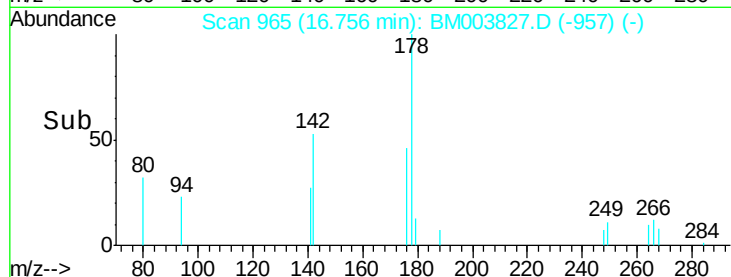
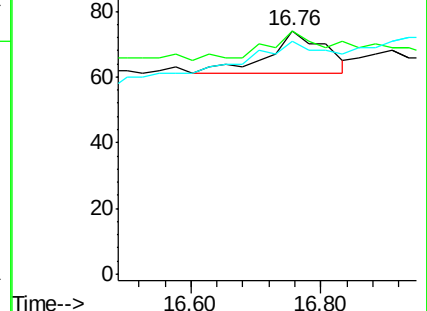
264 95.9 45.7 68.5#



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: 4.37 ng

RT: 17.11 min Scan# 979

Delta R.T. 0.00 min

Lab File: BM003827.D

Acq: 28 Dec 2015 14:16

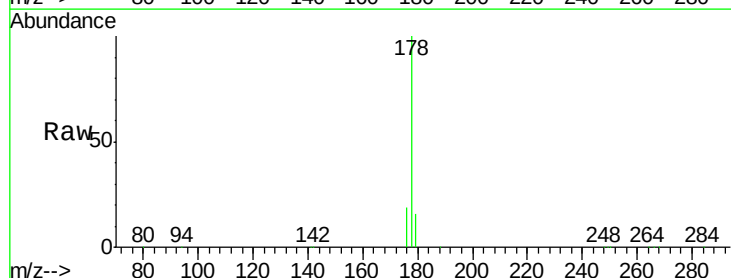
Tgt Ion:178 Resp: 1107608

Ion Ratio Lower Upper

178 100

176 19.0 15.4 23.0

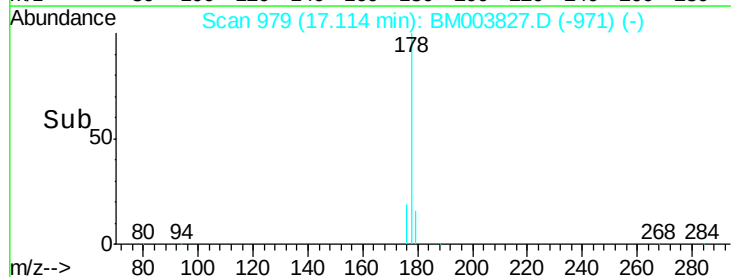
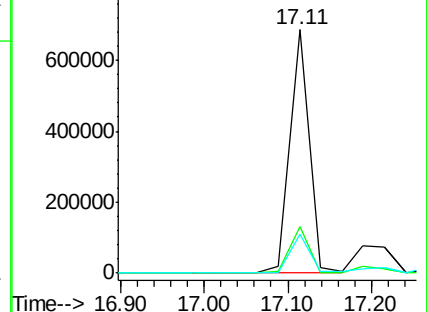
179 16.6 12.2 18.4

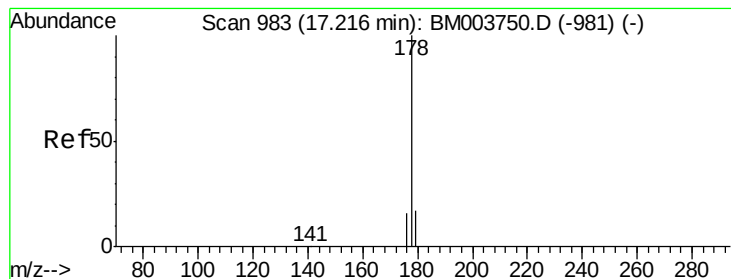


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#24

Anthracene

Concen: 4.70 ng

RT: 17.11 min Scan# 979

Delta R.T. -0.10 min

Lab File: BM003827.D

Acq: 28 Dec 2015 14:16

Instrument :

BNA_M

ClientSampleId :

LIBERTY-SF-003

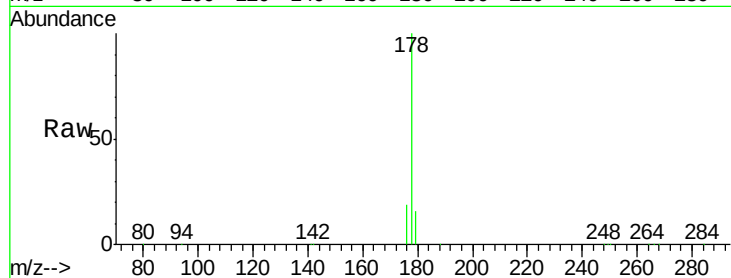
Tgt Ion:178 Resp: 1105206

Ion Ratio Lower Upper

178 100

176 19.0 14.6 21.8

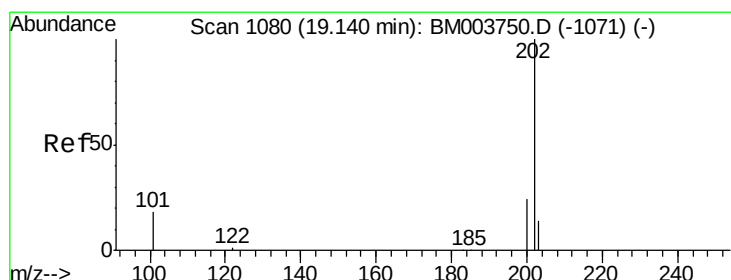
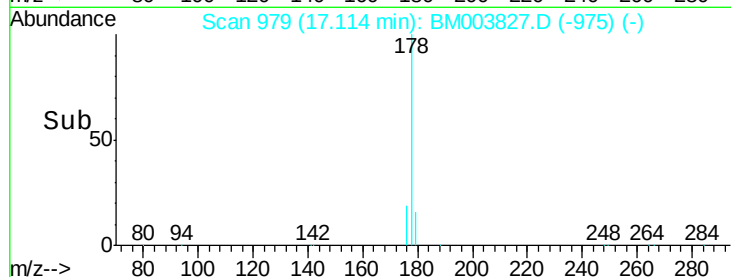
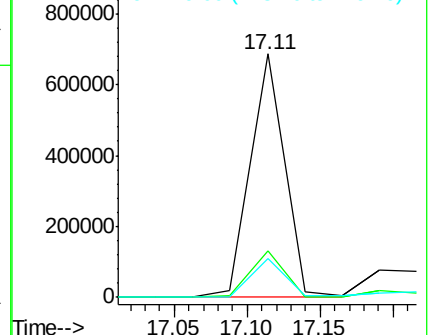
179 16.4 12.6 19.0



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: 4.34 ng

RT: 19.14 min Scan# 1080

Delta R.T. 0.00 min

Lab File: BM003827.D

Acq: 28 Dec 2015 14:16

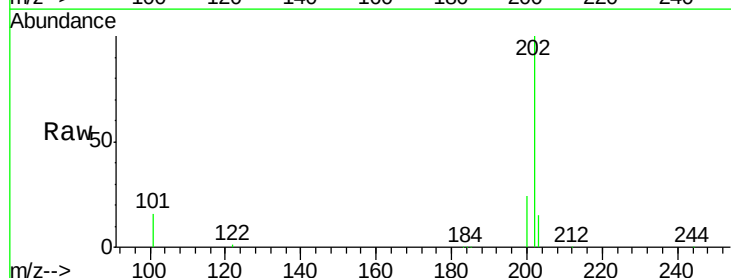
Tgt Ion:202 Resp: 1319853

Ion Ratio Lower Upper

202 100

101 12.0 9.7 14.5

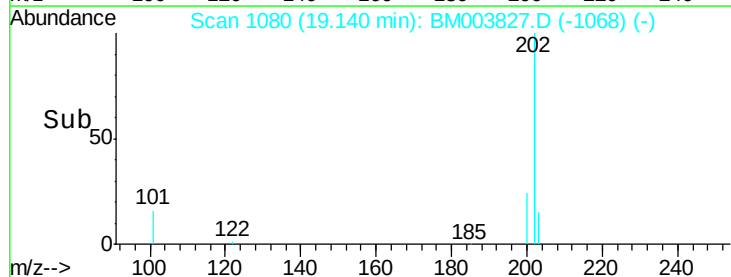
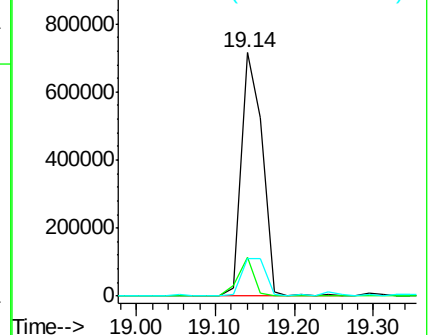
203 17.5 13.8 20.8

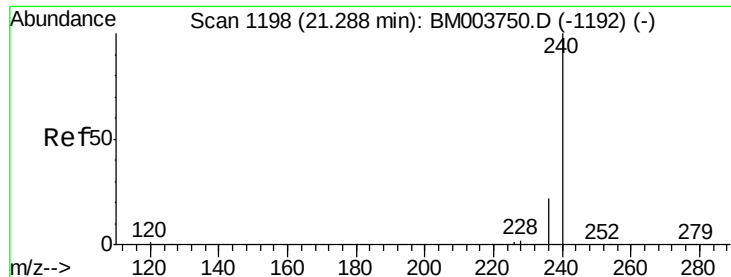


Abundance Ion 202.00 (201.70 to 202.70): E

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: BM003827.D

Acq: 28 Dec 2015 14:16

Instrument :

BNA_M

ClientSampleId :

LIBERTY-SF-003

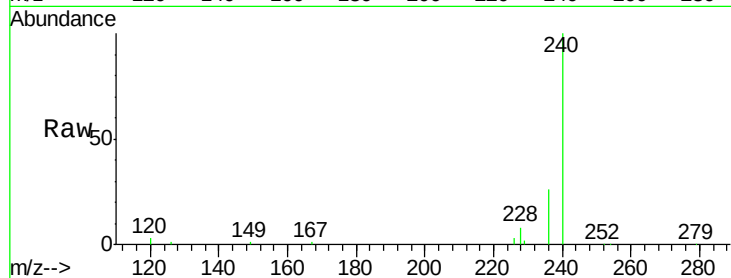
Tgt Ion:240 Resp: 926409

Ion Ratio Lower Upper

240 100

120 2.9 0.9 1.3#

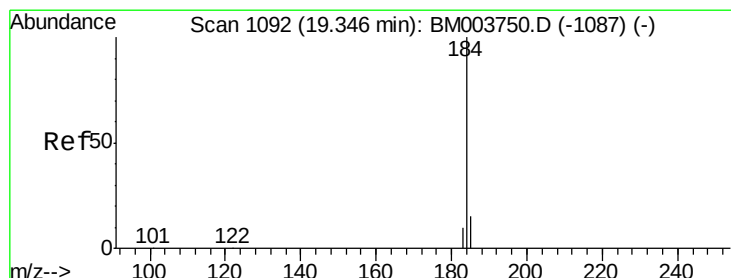
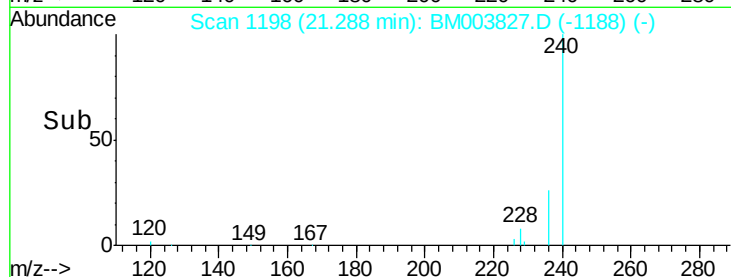
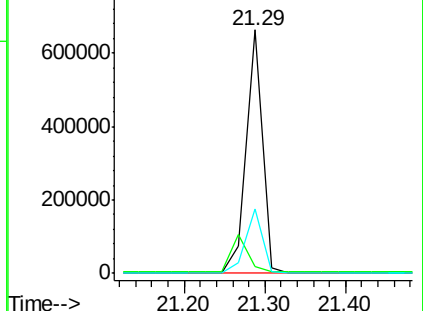
236 26.4 17.3 25.9#



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: 0.97 ng

RT: 19.72 min Scan# 1114

Delta R.T. 0.38 min

Lab File: BM003827.D

Acq: 28 Dec 2015 14:16

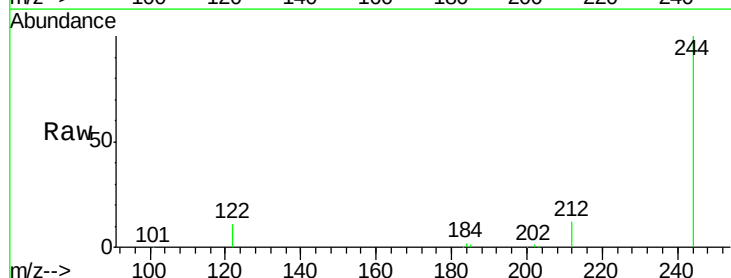
Tgt Ion:184 Resp: 54133

Ion Ratio Lower Upper

184 100

185 26.4 13.2 19.8#

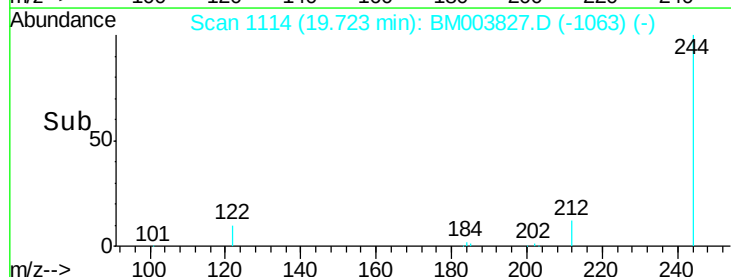
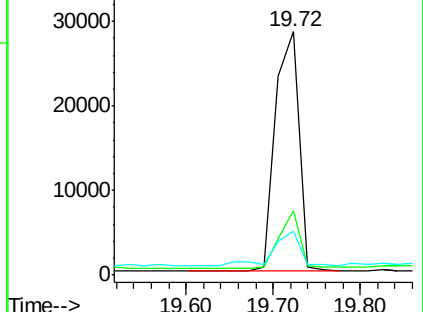
183 18.3 9.0 13.6#

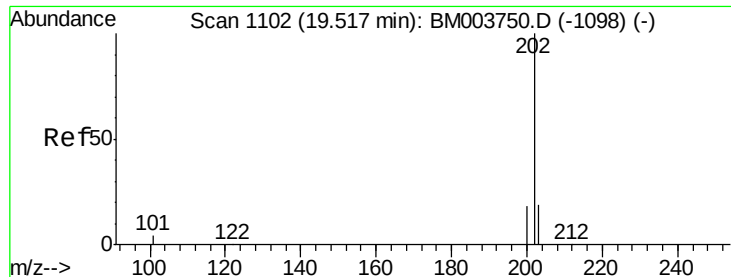


Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E





#28

Pyrene

Concen: 3.95 ng

RT: 19.52 min Scan# 1102

Delta R.T. 0.00 min

Lab File: BM003827.D

Acq: 28 Dec 2015 14:16

Instrument :

BNA_M

ClientSampleId :

LIBERTY-SF-003

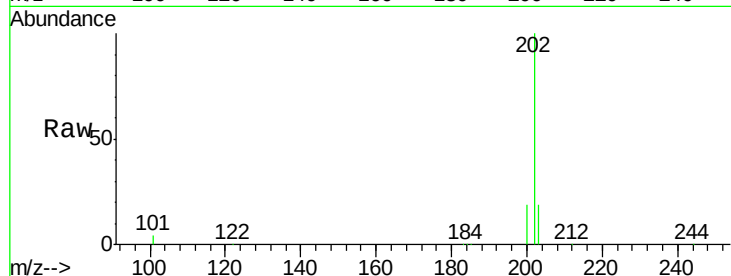
Tgt Ion:202 Resp: 1214868

Ion Ratio Lower Upper

202 100

200 21.2 16.6 24.8

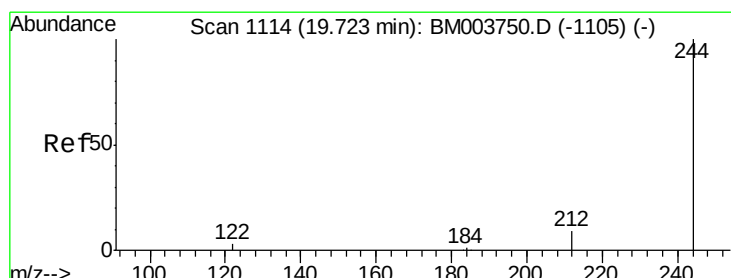
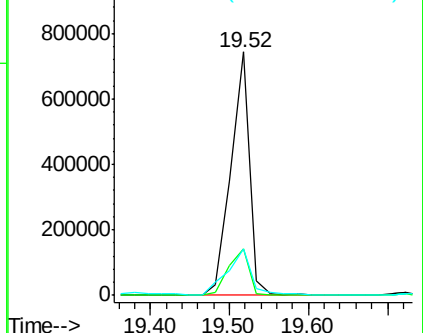
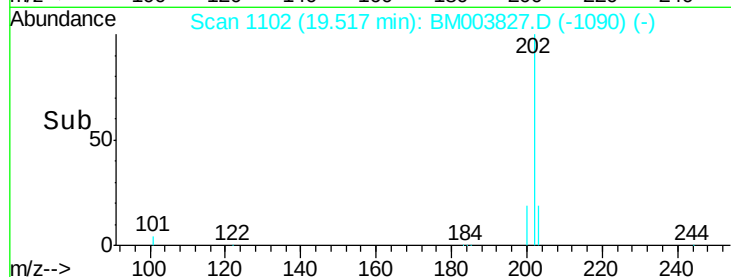
203 24.3 14.0 21.0#



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: 13.12 ng

RT: 19.72 min Scan# 1114

Delta R.T. 0.00 min

Lab File: BM003827.D

Acq: 28 Dec 2015 14:16

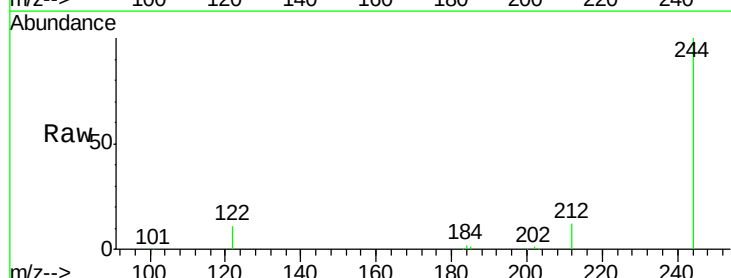
Tgt Ion:244 Resp: 1905147

Ion Ratio Lower Upper

244 100

212 12.0 7.0 10.6#

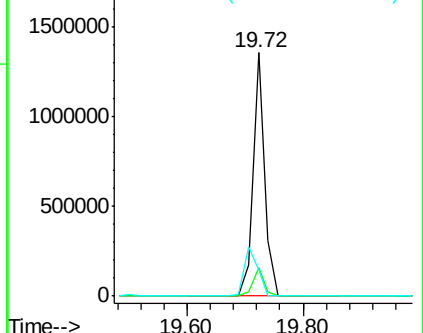
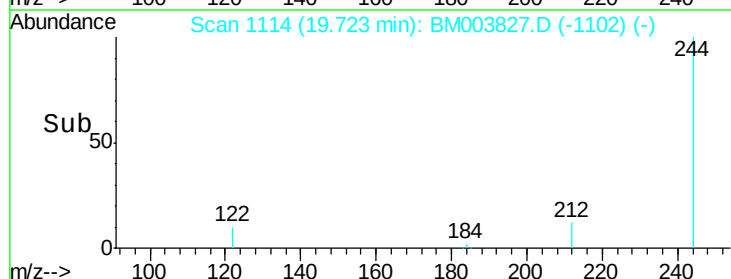
122 10.5 3.0 4.6#

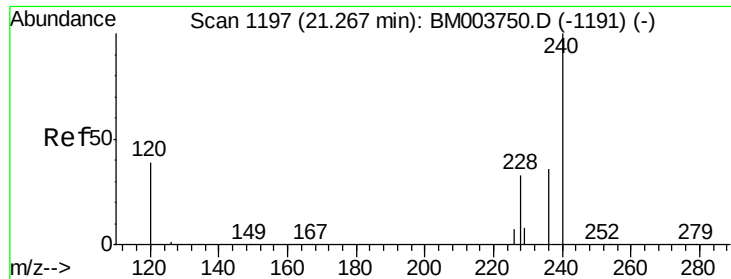


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#30

Benzo(a)anthracene

Concen: 3.75 ng

RT: 21.27 min Scan# 1197

Delta R.T. 0.00 min

Lab File: BM003827.D

Acq: 28 Dec 2015 14:16

Instrument :

BNA_M

ClientSampleId :

LIBERTY-SF-003

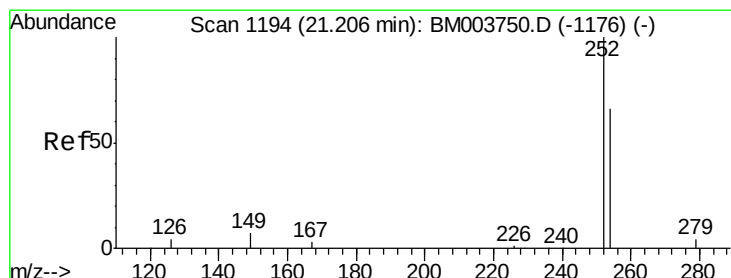
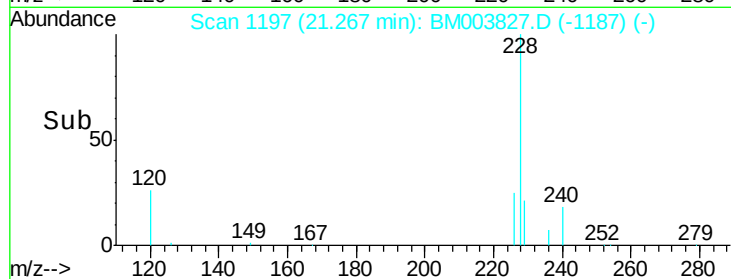
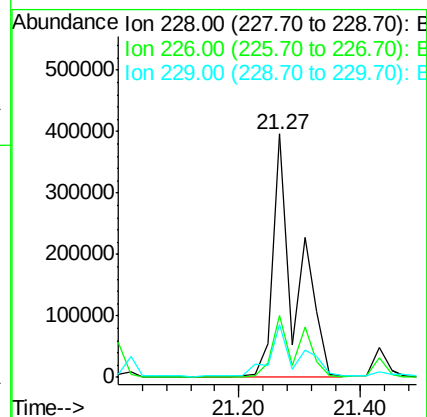
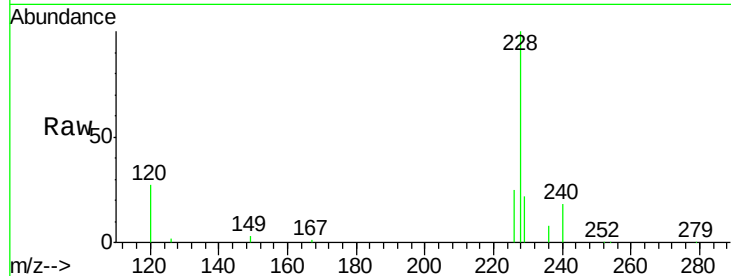
Tgt Ion:228 Resp: 1041969

Ion Ratio Lower Upper

228 100

226 25.3 17.2 25.8

229 21.7 18.7 28.1



#31

3,3'-Dichlorobenzidine

Concen: 0.25 ng

RT: 21.21 min Scan# 1194

Delta R.T. 0.00 min

Lab File: BM003827.D

Acq: 28 Dec 2015 14:16

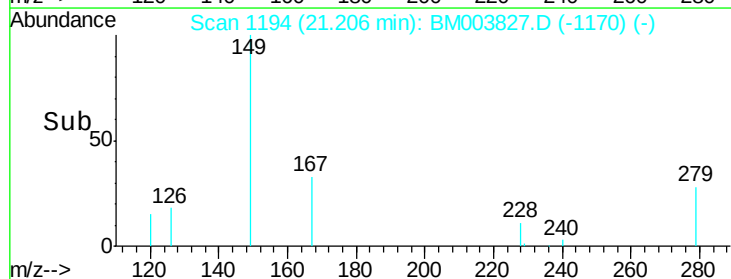
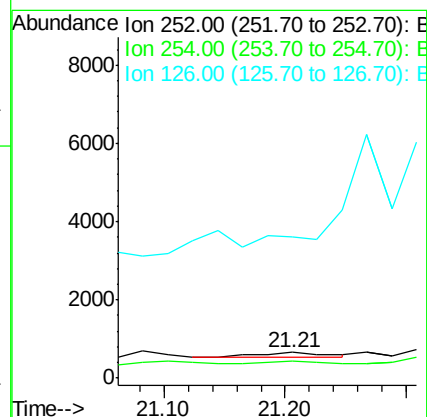
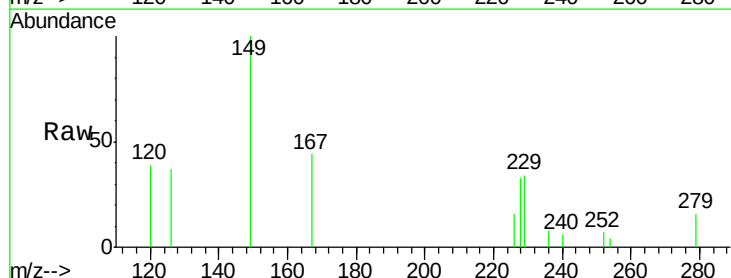
Tgt Ion:252 Resp: 474

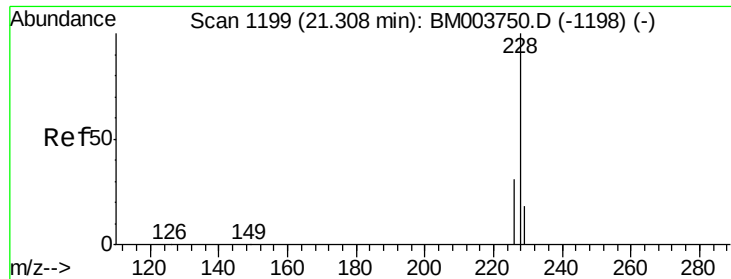
Ion Ratio Lower Upper

252 100

254 67.1 52.6 79.0

126 556.4 3.7 5.5#





#32

Chrysene

Concen: 4.10 ng

RT: 21.27 min Scan# 1197

Delta R.T. -0.04 min

Lab File: BM003827.D

Acq: 28 Dec 2015 14:16

Instrument :

BNA_M

ClientSampleId :

LIBERTY-SF-003

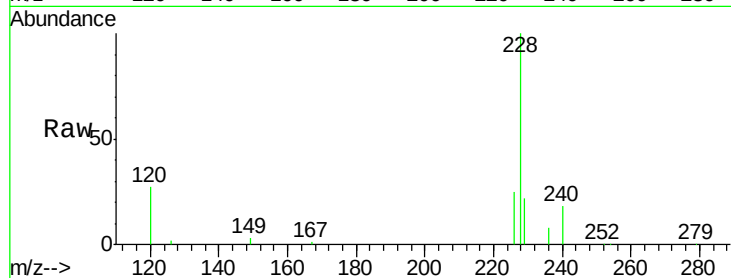
Tgt Ion:228 Resp: 1039471

Ion Ratio Lower Upper

228 100

226 25.3 25.3 37.9

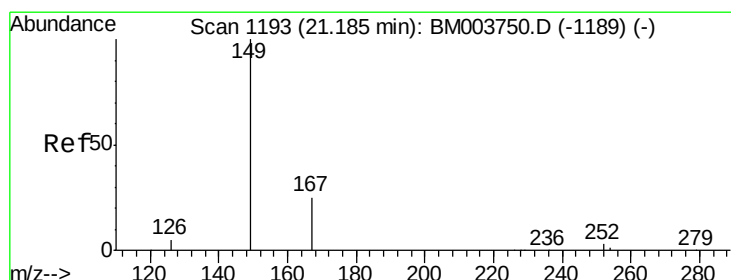
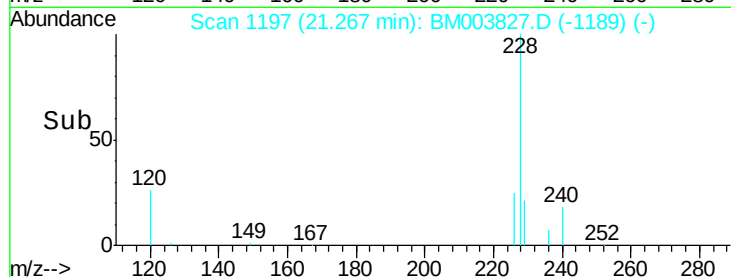
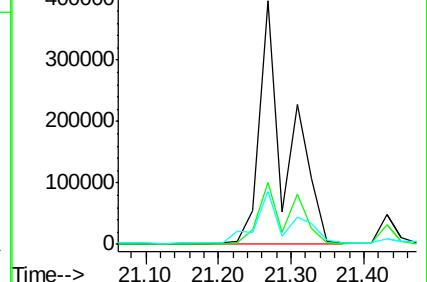
229 21.7 14.5 21.7



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: 0.52 ng

RT: 21.19 min Scan# 1193

Delta R.T. 0.00 min

Lab File: BM003827.D

Acq: 28 Dec 2015 14:16

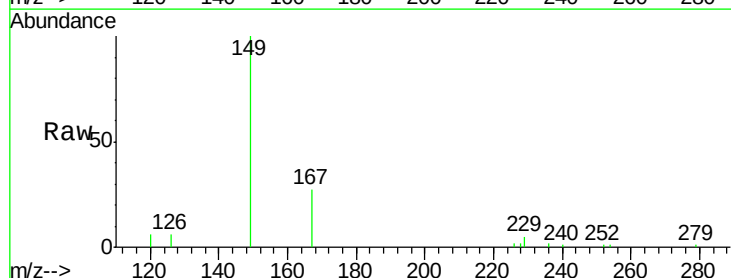
Tgt Ion:149 Resp: 69426

Ion Ratio Lower Upper

149 100

167 24.6 20.1 30.1

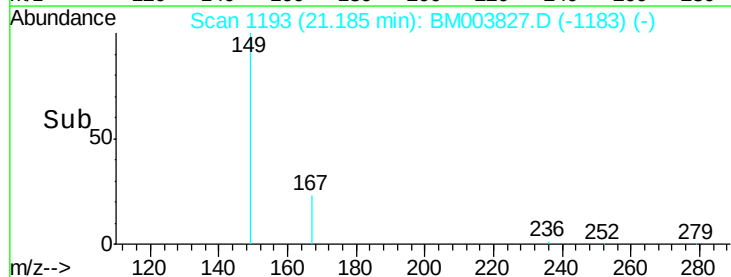
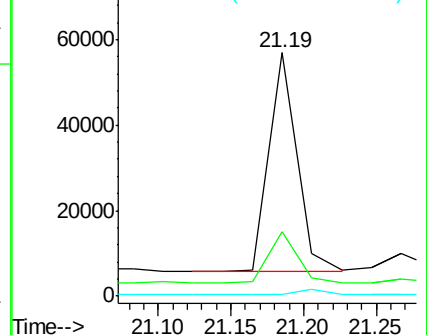
279 0.0 0.0 0.0

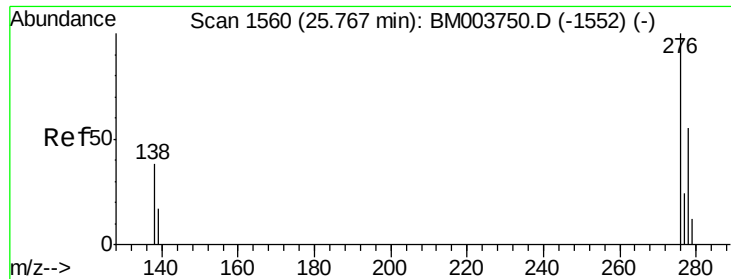


Abundance Ion 149.00 (148.70 to 149.70): E

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: 1.01 ng

RT: 25.78 min Scan# 1562

Delta R.T. 0.01 min

Lab File: BM003827.D

Acq: 28 Dec 2015 14:16

Instrument :

BNA_M

ClientSampleId :

LIBERTY-SF-003

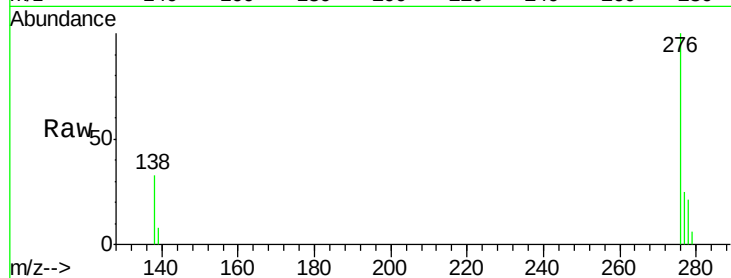
Tgt Ion: 276 Resp: 197650

Ion Ratio Lower Upper

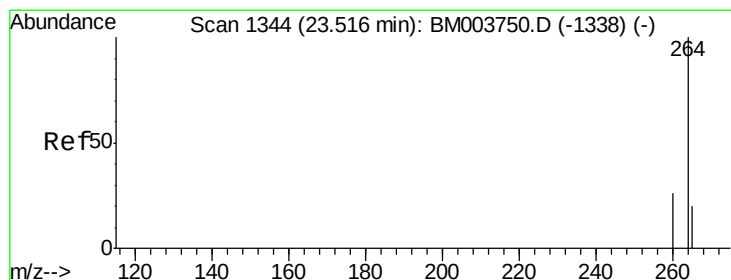
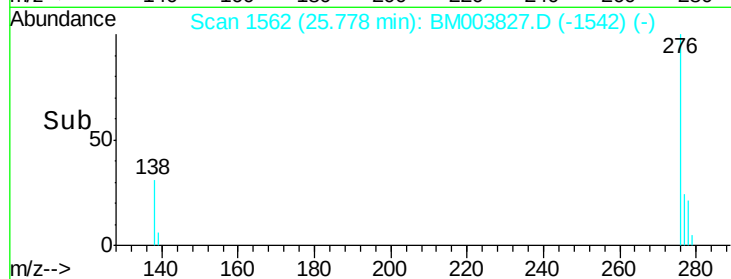
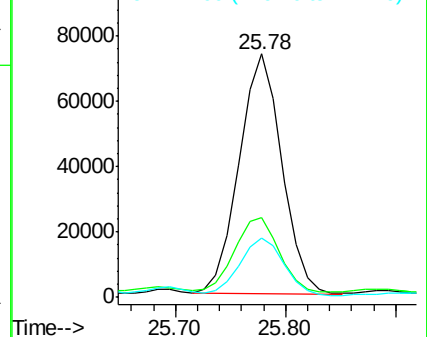
276 100

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: BM003827.D

Acq: 28 Dec 2015 14:16

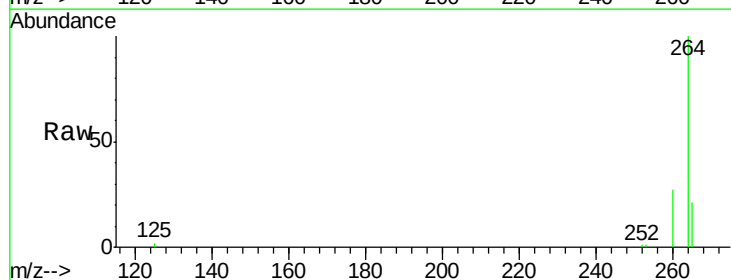
Tgt Ion: 264 Resp: 663898

Ion Ratio Lower Upper

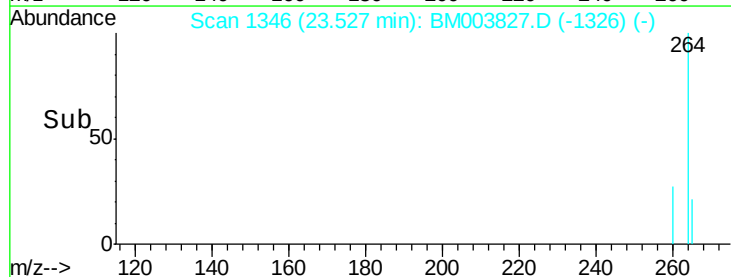
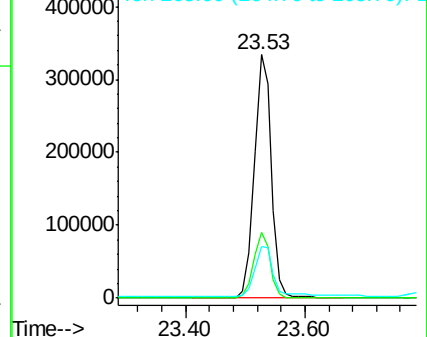
264 100

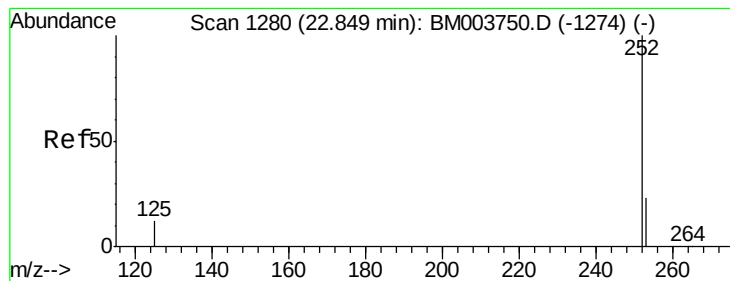
260 26.9 21.2 31.8

265 21.2 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: 3.12 ng

RT: 22.85 min Scan# 1281

Delta R.T. 0.00 min

Lab File: BM003827.D

Acq: 28 Dec 2015 14:16

Instrument :

BNA_M

ClientSampleId :

LIBERTY-SF-003

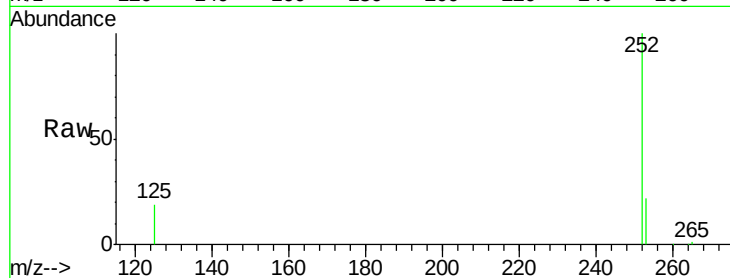
Tgt Ion:252 Resp: 677947

Ion Ratio Lower Upper

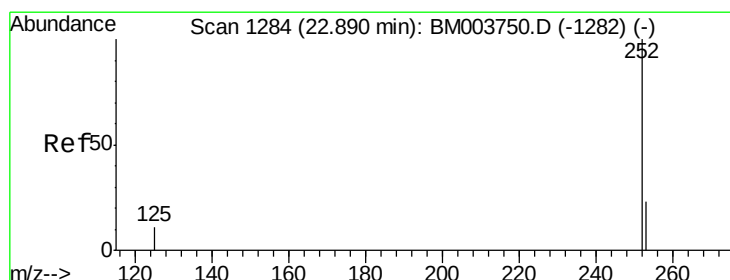
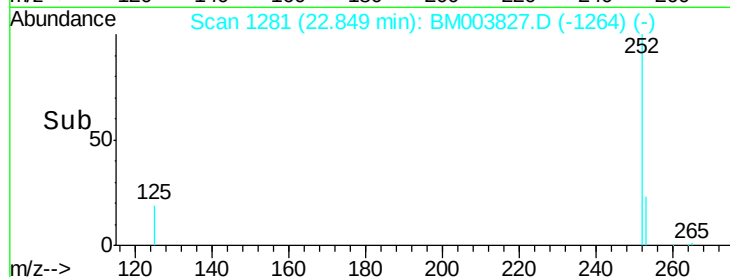
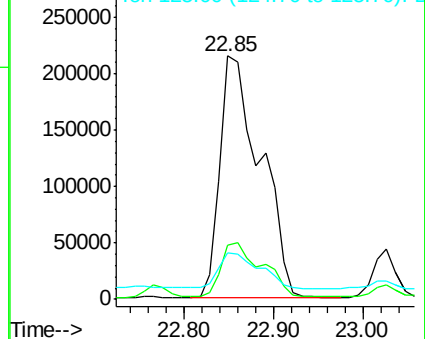
252 100

253 22.5 18.8 28.2

125 18.9 10.2 15.4#



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



#37

Benzo(k)fluoranthene

Concen: 3.39 ng

RT: 22.85 min Scan# 1281

Delta R.T. -0.04 min

Lab File: BM003827.D

Acq: 28 Dec 2015 14:16

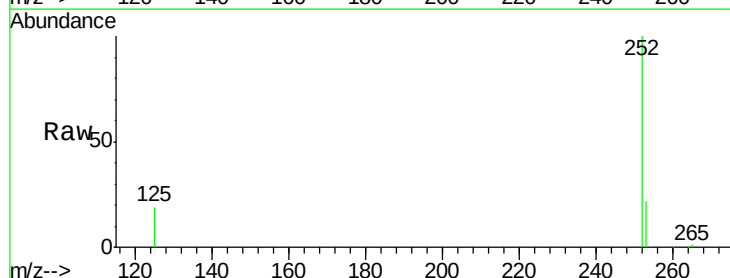
Tgt Ion:252 Resp: 677947

Ion Ratio Lower Upper

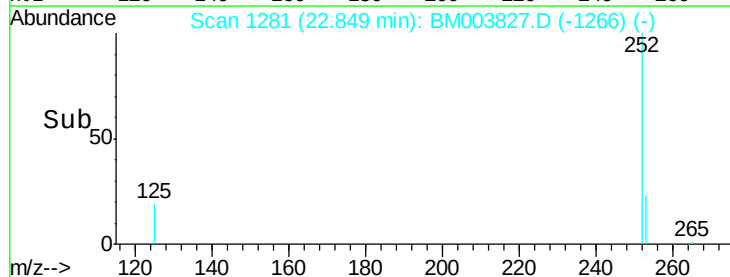
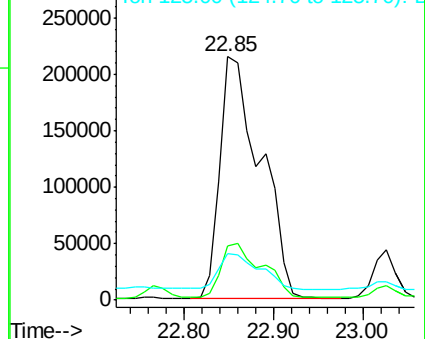
252 100

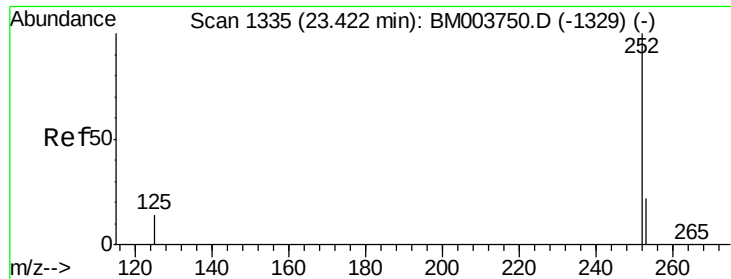
253 22.5 18.3 27.5

125 18.9 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





#38

Benzo(a)pyrene

Concen: 1.90 ng

RT: 23.42 min Scan# 1336

Delta R.T. 0.00 min

Lab File: BM003827.D

Acq: 28 Dec 2015 14:16

Instrument :

BNA_M

ClientSampleId :

LIBERTY-SF-003

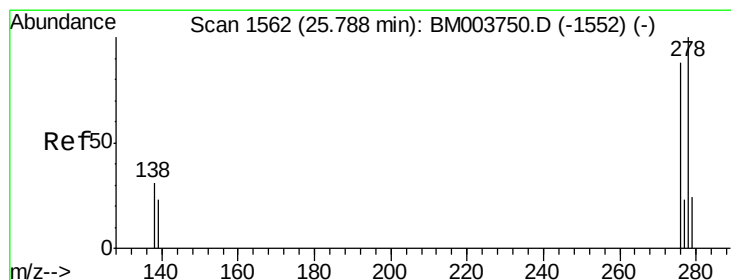
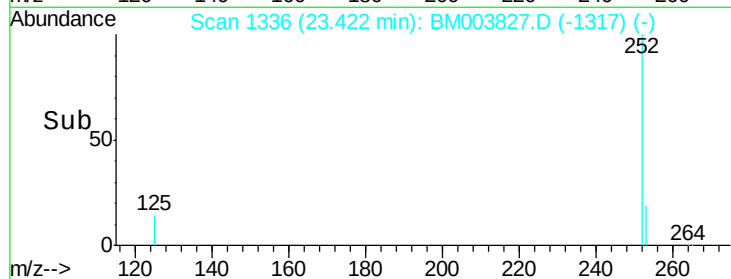
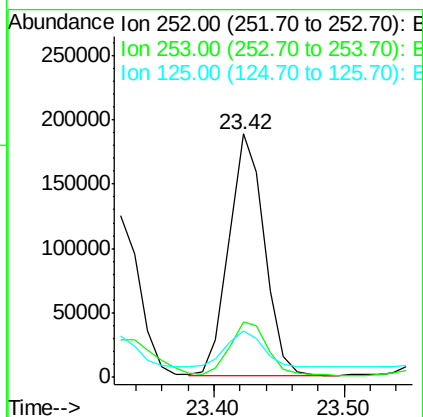
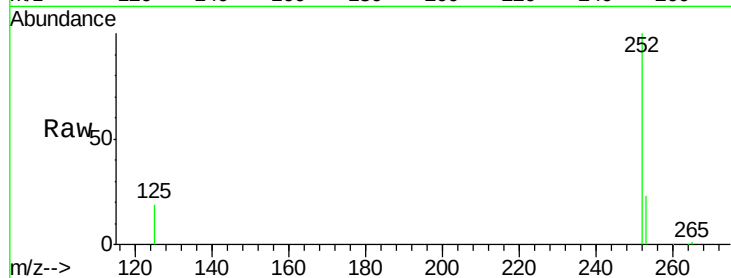
Tgt Ion: 252 Resp: 353493

Ion Ratio Lower Upper

252 100

253 22.9 18.7 28.1

125 19.3 11.8 17.8#



#39

Dibenzo(a,h)anthracene

Concen: 0.34 ng

RT: 25.79 min Scan# 1563

Delta R.T. 0.00 min

Lab File: BM003827.D

Acq: 28 Dec 2015 14:16

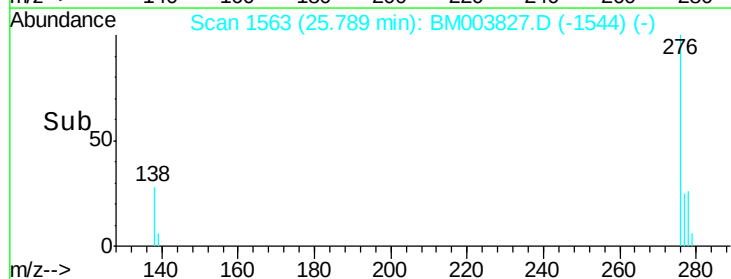
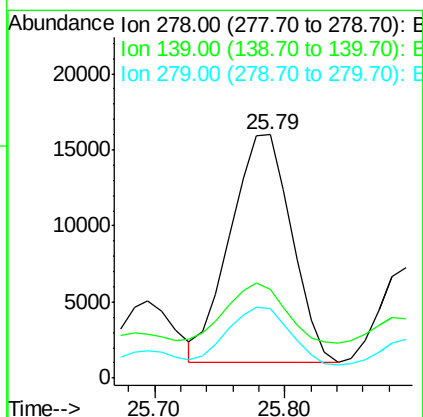
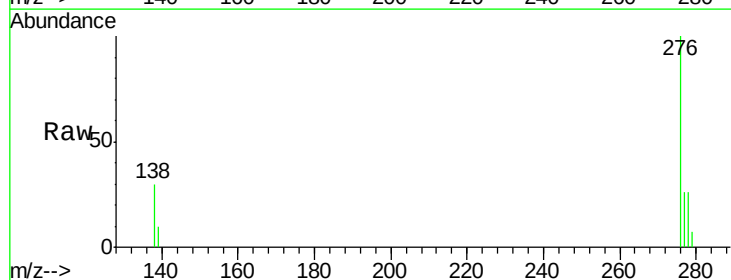
Tgt Ion: 278 Resp: 49044

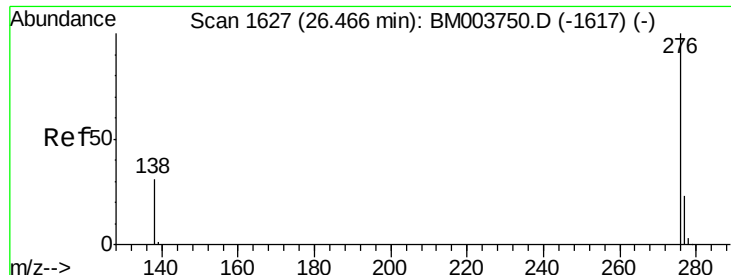
Ion Ratio Lower Upper

278 100

139 36.2 19.0 28.6#

279 28.5 19.6 29.4





#40

Benzo(g,h,i)perylene

Concen: 1.23 ng

RT: 26.47 min Scan# 1628

Delta R.T. 0.00 min

Lab File: BM003827.D

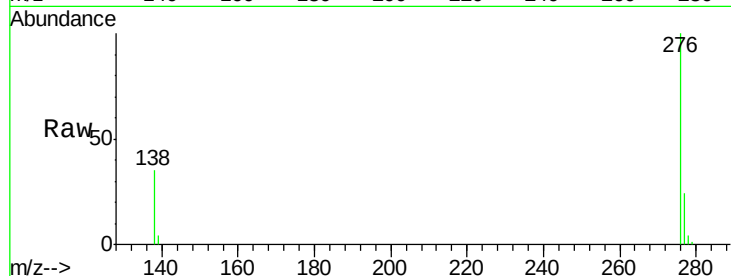
Acq: 28 Dec 2015 14:16

Instrument :

BNA_M

ClientSampleId :

LIBERTY-SF-003



Tgt Ion: 276 Resp: 188174

Ion Ratio Lower Upper

276 100

277 24.0 19.1 28.7

138 34.7 25.0 37.4

