

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM120415\
 Data File : BM003374.D
 Acq On : 03 Dec 2015 17:15
 Operator : UM/IZ
 Sample : G4480-05
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 LIBERTYSF-002-SPLPSVOC1

Quant Time: Dec 04 00:18:16 2015
 Quant Method : Z:\HPCHEM1\BNA_M\METHODS\8270-SIM-BM120215.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Dec 02 16:19:00 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.72	152	319369	5.00	ng	0.00
7) Naphthalene-d8	10.51	136	1327308	5.00	ng	0.00
13) Acenaphthene-d10	14.37	164	728082	5.00	ng	0.00
19) Phenanthrene-d10	17.11	188	1444766	5.00	ng	0.00
26) Chrysene-d12	21.32	240	1020932	5.00	ng	-0.01
35) Perylene-d12	23.59	264	912657	5.00	ng	0.00

System Monitoring Compounds

4) 2-Fluorophenol	5.31	112	1140590	17.90	ng	0.00
5) Phenol-d6	6.88	99	915344	11.68	ng	0.00
8) Nitrobenzene-d5	8.88	82	1916133	30.97	ng	0.00
14) 2,4,6-Tribromophenol	15.88	330	773390	40.02	ng	0.02
15) 2-Fluorobiphenyl	13.00	172	4646399	21.20	ng	0.00
29) Terphenyl-d14	19.76	244	2478482	14.97	ng	0.00

Target Compounds

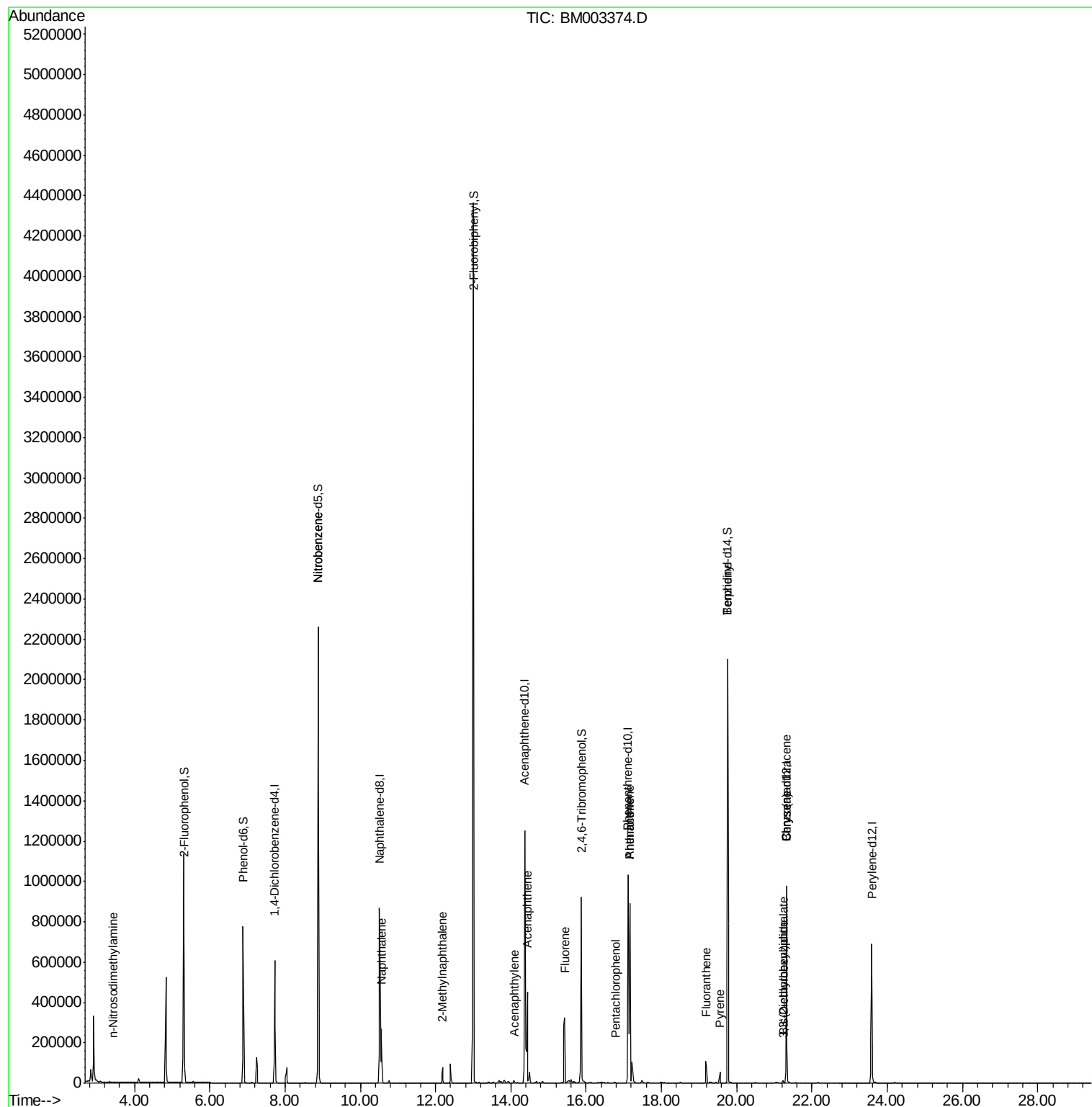
						Qvalue
3) n-Nitrosodimethylamine	3.44	42	700	0.02	ng	# 1
9) Nitrobenzene	8.88	77	5840	0.09	ng	# 33
10) Naphthalene	10.56	128	360673	1.26	ng	99
12) 2-Methylnaphthalene	12.18	142	56558	0.29	ng	97
16) Acenaphthylene	14.08	152	9376	0.03	ng	# 85
17) Acenaphthene	14.44	154	306128	1.59	ng	# 100
18) Fluorene	15.43	166	361002	1.66	ng	# 11
21) Hexachlorobenzene	16.42	284	21	Below Cal		# 51
22) Pentachlorophenol	16.78	266	1768	0.40	ng	# 88
23) Phenanthrene	17.16	178	1201459	4.31	ng	# 85
24) Anthracene	17.16	178	1201648	4.09	ng	# 88
25) Fluoranthene	19.18	202	131502	0.46	ng	99
27) Benzidine	19.76	184	75627	0.94	ng	# 90
28) Pyrene	19.56	202	58605	0.16	ng	# 94
30) Benzo(a)anthracene	21.32	228	7921	0.03	ng	# 84
31) 3,3'-Dichlorobenzidine	21.25	252	116	0.09	ng	# 67
32) Chrysene	21.32	228	7932	0.02	ng	# 70
33) Bis(2-ethylhexyl)phthalate	21.23	149	15686	0.33	ng	# 91

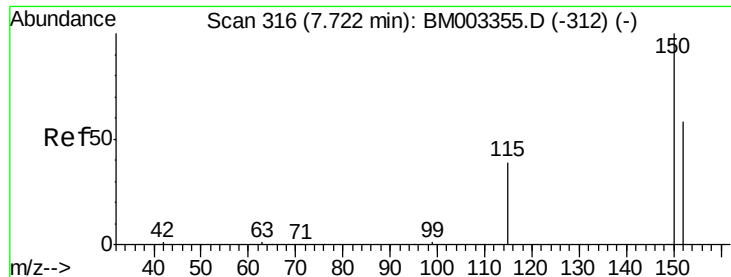
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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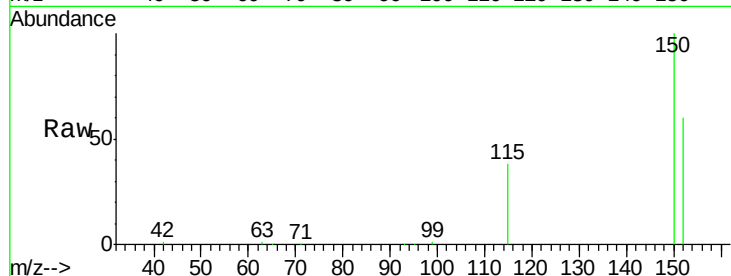


#1

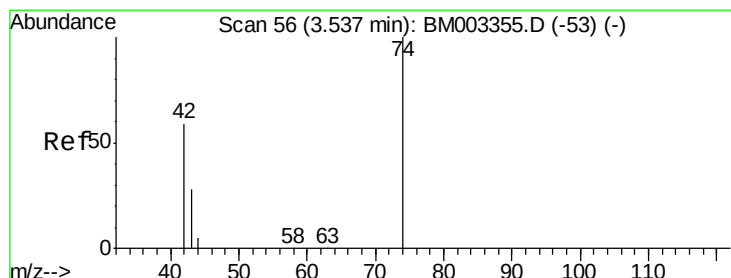
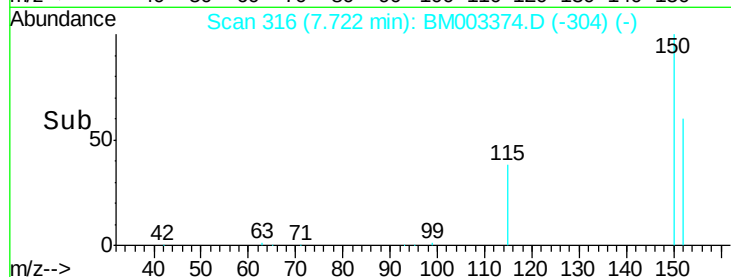
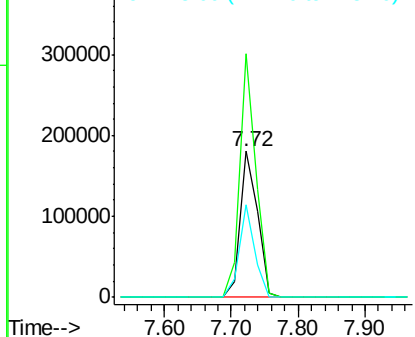
1,4-Dichlorobenzene-d4
Concen: 5.00 ng
RT: 7.72 min Scan# 316
Delta R.T. 0.00 min
Lab File: BM003374.D
Acq: 03 Dec 2015 17:15

Instrument :
BNA_M
ClientSampleId :
LIBERTYSF-002-SPLPSVOC1

Tgt Ion: 152 Resp: 319369
Ion Ratio Lower Upper
152 100
150 167.0 143.6 215.4
115 63.5 58.5 87.7



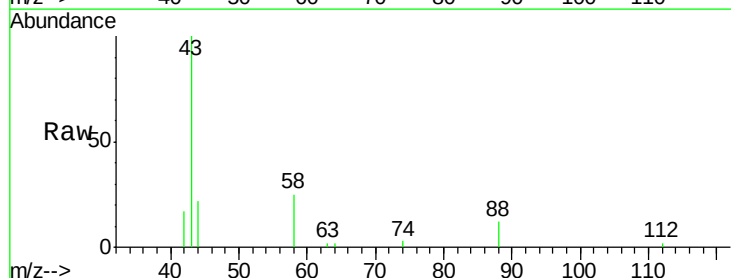
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



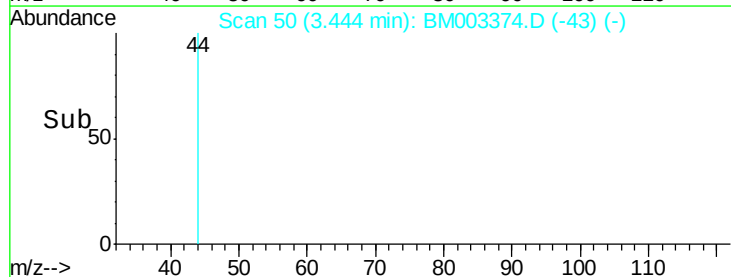
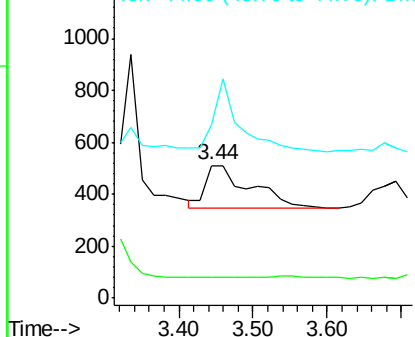
#3

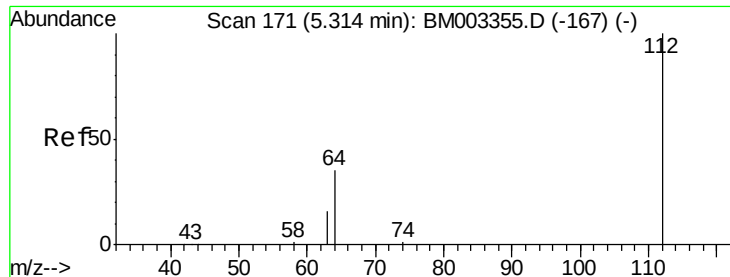
n-Nitrosodimethylamine
Concen: 0.02 ng
RT: 3.44 min Scan# 50
Delta R.T. -0.09 min
Lab File: BM003374.D
Acq: 03 Dec 2015 17:15

Tgt Ion: 42 Resp: 700
Ion Ratio Lower Upper
42 100
74 0.0 101.0 151.4#
44 95.0 6.3 9.5#



Abundance Ion 42.00 (41.70 to 42.70): BM0
Ion 74.00 (73.70 to 74.70): BM0
Ion 44.00 (43.70 to 44.70): BM0





#4

2-Fluorophenol

Concen: 17.90 ng

RT: 5.31 min Scan# 171

Delta R.T. 0.00 min

Lab File: BM003374.D

Acq: 03 Dec 2015 17:15

Instrument :

BNA_M

ClientSampleId :

LIBERTYSF-002-SPLPSVOC1

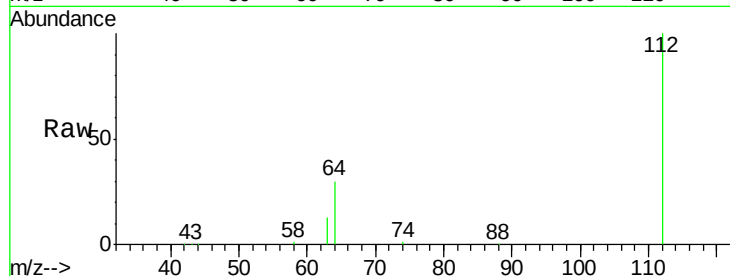
Tgt Ion: 112 Resp: 1140590

Ion Ratio Lower Upper

112 100

64 50.6 41.2 61.8

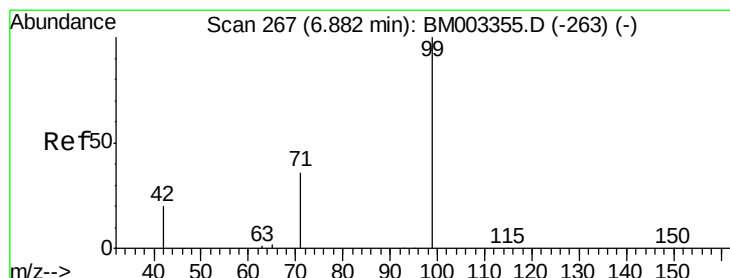
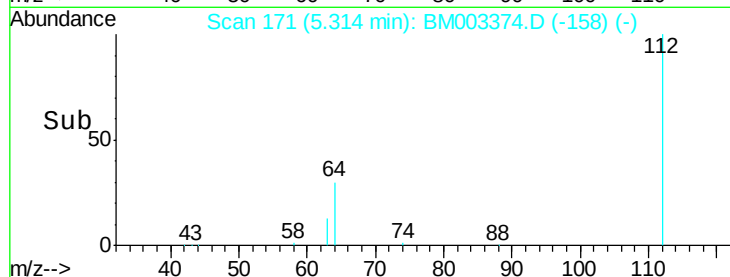
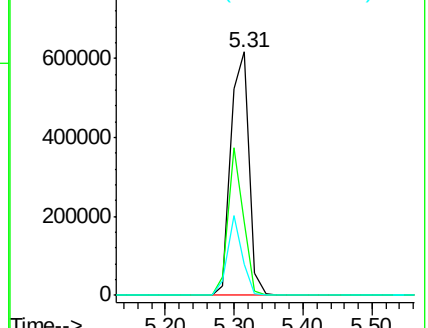
63 26.2 21.2 31.8



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: 11.68 ng

RT: 6.88 min Scan# 267

Delta R.T. 0.00 min

Lab File: BM003374.D

Acq: 03 Dec 2015 17:15

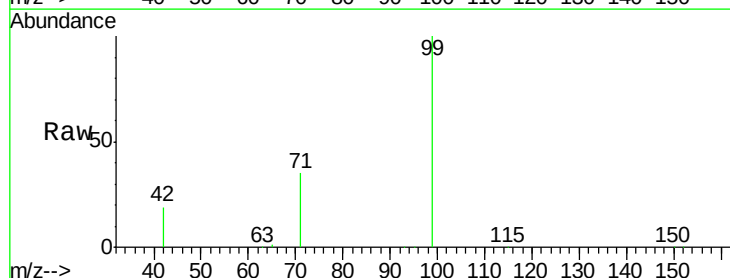
Tgt Ion: 99 Resp: 915344

Ion Ratio Lower Upper

99 100

42 17.4 14.6 22.0

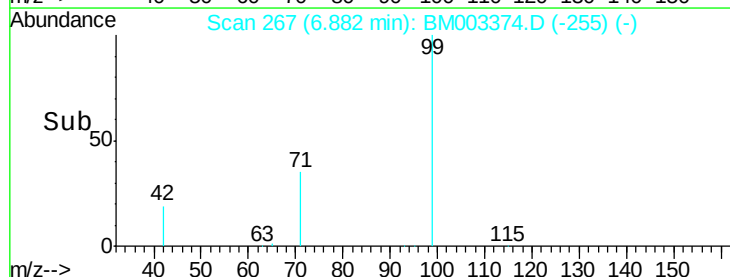
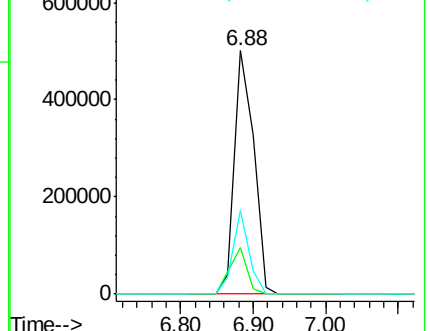
71 29.1 23.3 34.9

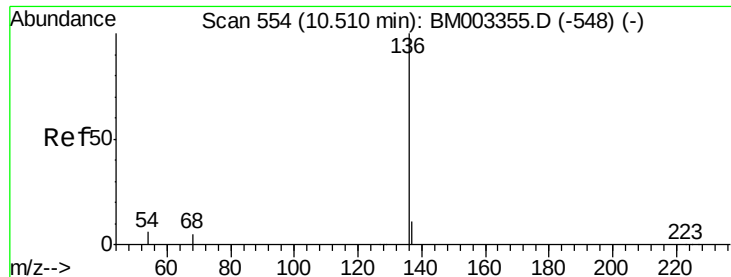


Abundance Ion 99.00 (98.70 to 99.70): B

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: 10.51 min Scan# 553

Delta R.T. -0.00 min

Lab File: BM003374.D

Acq: 03 Dec 2015 17:15

Instrument :

BNA_M

ClientSampleId :

LIBERTYSF-002-SPLPSVOC1

Tgt Ion:136 Resp: 1327308

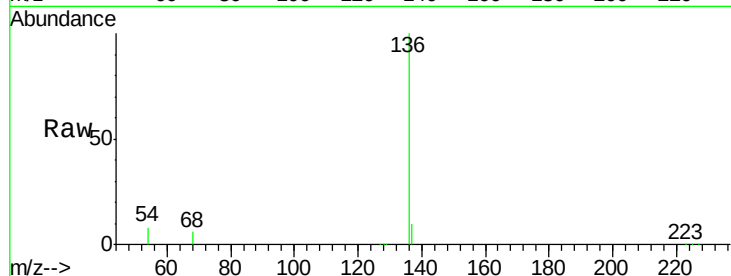
Ion Ratio Lower Upper

136 100

137 10.4 8.0 12.0

54 8.3 7.4 11.0

68 6.4 5.8 8.6

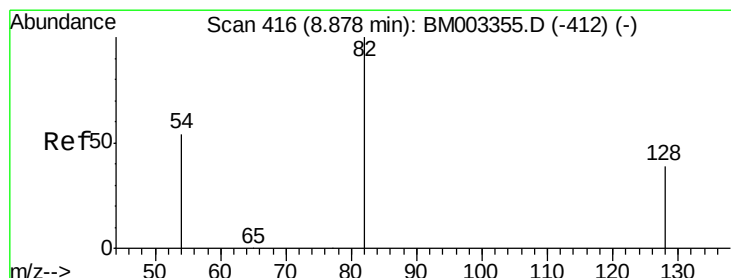
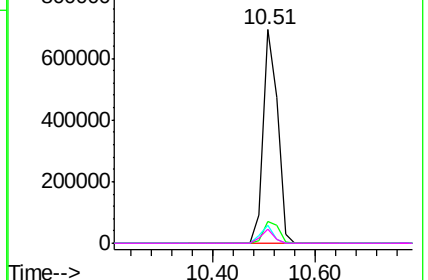
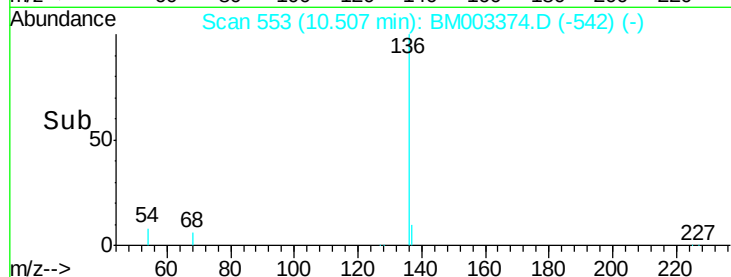


Abundance Ion 136.00 (135.70 to 136.70): E

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



#8

Nitrobenzene-d5

Concen: 30.97 ng

RT: 8.88 min Scan# 416

Delta R.T. 0.01 min

Lab File: BM003374.D

Acq: 03 Dec 2015 17:15

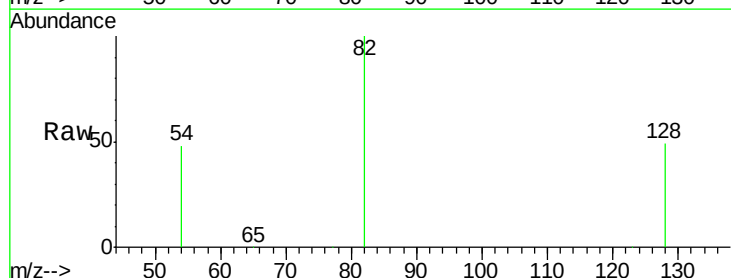
Tgt Ion: 82 Resp: 1916133

Ion Ratio Lower Upper

82 100

128 49.1 35.2 52.8

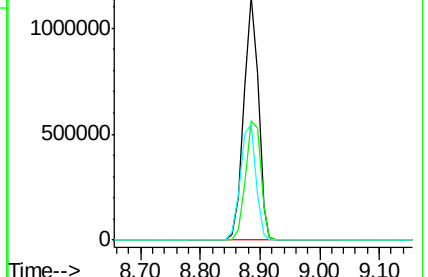
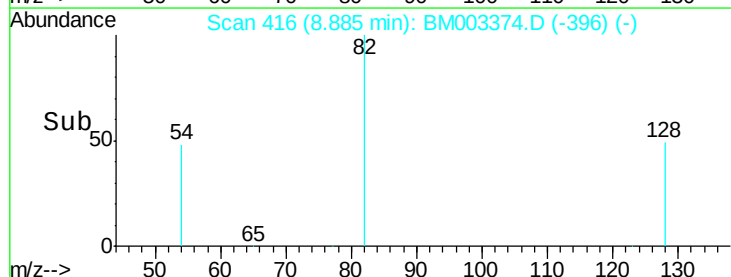
54 47.5 36.4 54.6

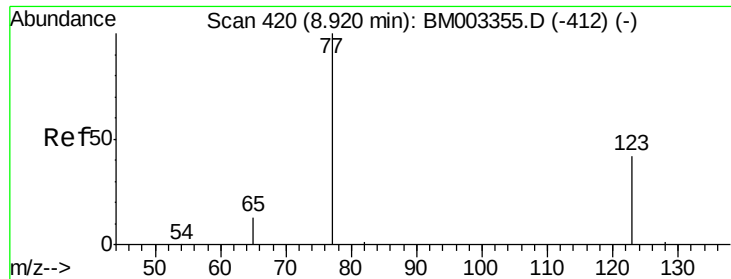


Abundance Ion 82.00 (81.70 to 82.70): BM

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BM





#9

Nitrobenzene

Concen: 0.09 ng

RT: 8.88 min Scan# 416

Delta R.T. -0.03 min

Lab File: BM003374.D

Acq: 03 Dec 2015 17:15

Instrument :

BNA_M

ClientSampleId :

LIBERTYSF-002-SPLPSVOC1

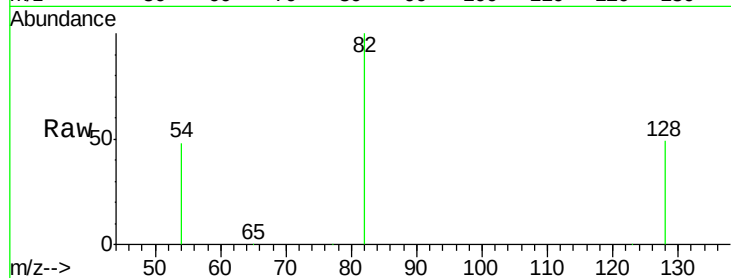
Tgt Ion: 77 Resp: 5840

Ion Ratio Lower Upper

77 100

123 0.0 37.7 56.5#

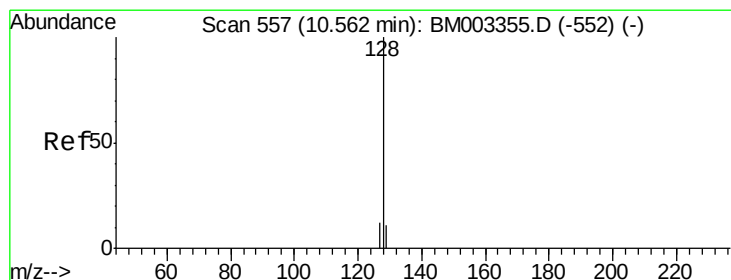
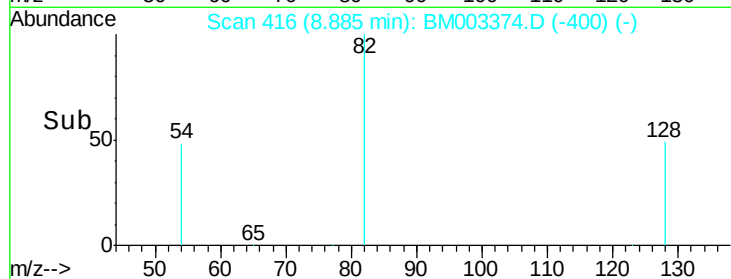
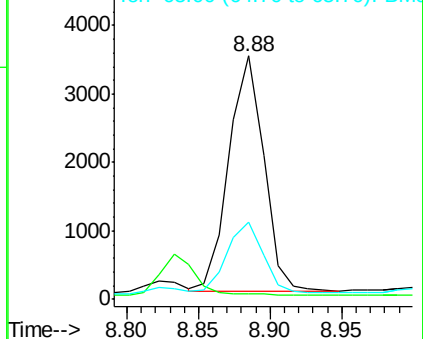
65 32.3 9.8 14.6#



Abundance Ion 77.00 (76.70 to 77.70): BM003355.D (-412) (-)

Ion 123.00 (122.70 to 123.70): BM003355.D (-412) (-)

Ion 65.00 (64.70 to 65.70): BM003355.D (-412) (-)



#10

Naphthalene

Concen: 1.26 ng

RT: 10.56 min Scan# 556

Delta R.T. -0.00 min

Lab File: BM003374.D

Acq: 03 Dec 2015 17:15

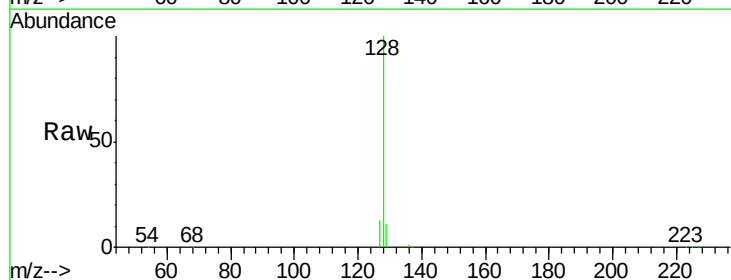
Tgt Ion: 128 Resp: 360673

Ion Ratio Lower Upper

128 100

129 10.8 8.5 12.7

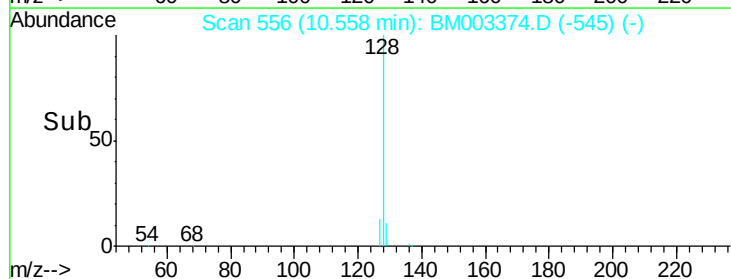
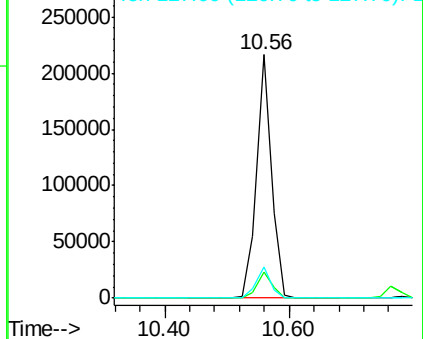
127 12.8 10.6 16.0

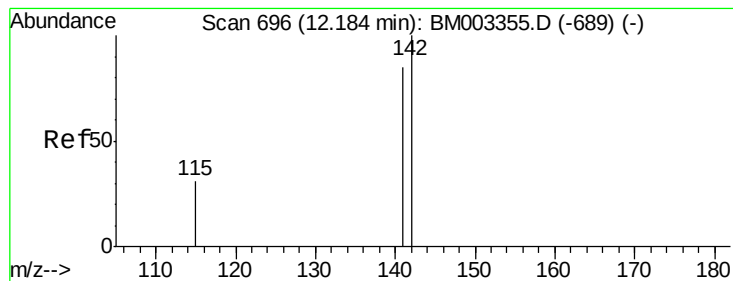


Abundance Ion 128.00 (127.70 to 128.70): BM003355.D (-552) (-)

Ion 129.00 (128.70 to 129.70): BM003355.D (-552) (-)

Ion 127.00 (126.70 to 127.70): BM003355.D (-552) (-)





#12

2-Methylnaphthalene

Concen: 0.29 ng

RT: 12.18 min Scan# 695

Delta R.T. -0.00 min

Lab File: BM003374.D

Acq: 03 Dec 2015 17:15

Instrument :

BNA_M

ClientSampleId :

LIBERTYSF-002-SPLPSVOC1

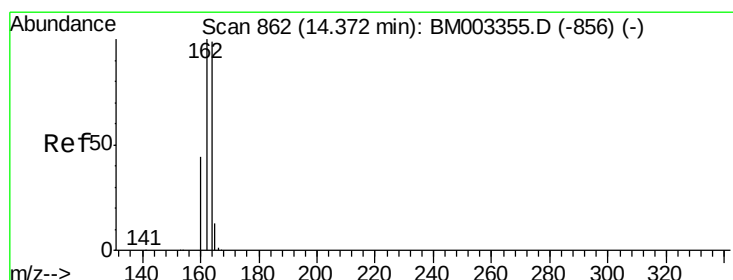
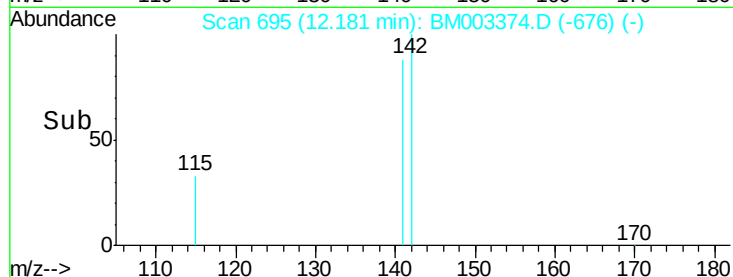
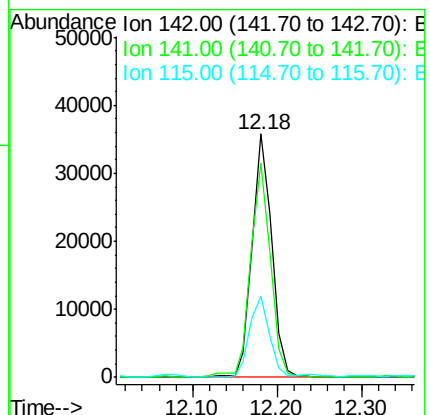
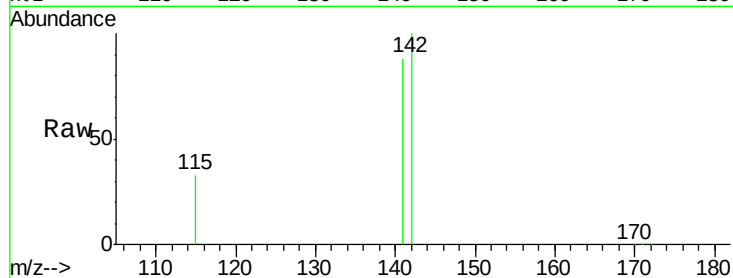
Tgt Ion:142 Resp: 56558

Ion Ratio Lower Upper

142 100

141 87.9 72.2 108.2

115 33.1 28.0 42.0



#13

Acenaphthene-d10

Concen: 5.00 ng

RT: 14.37 min Scan# 861

Delta R.T. -0.00 min

Lab File: BM003374.D

Acq: 03 Dec 2015 17:15

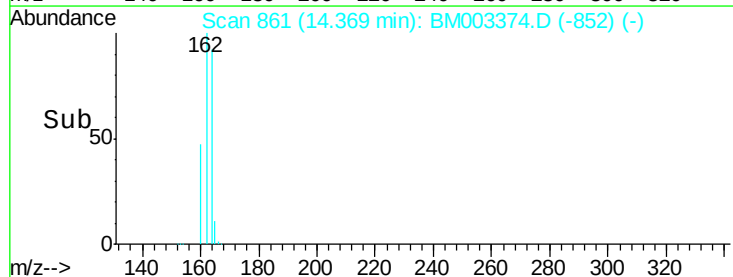
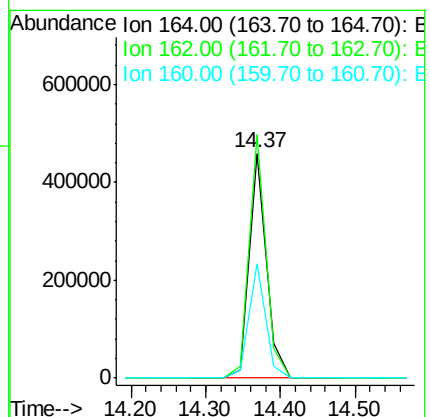
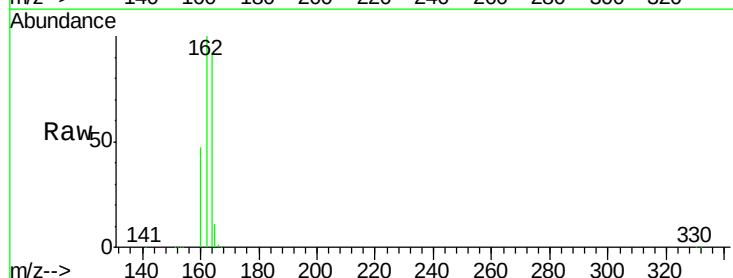
Tgt Ion:164 Resp: 728082

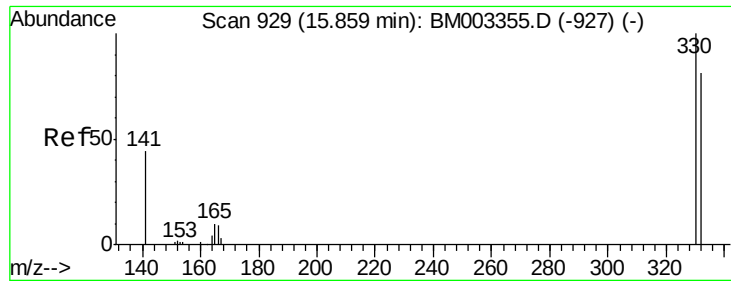
Ion Ratio Lower Upper

164 100

162 108.2 78.3 117.5

160 50.7 33.8 50.6#

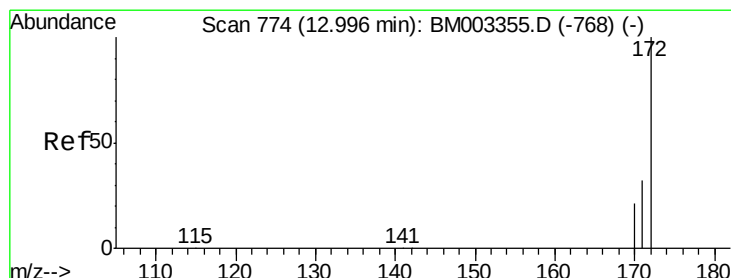
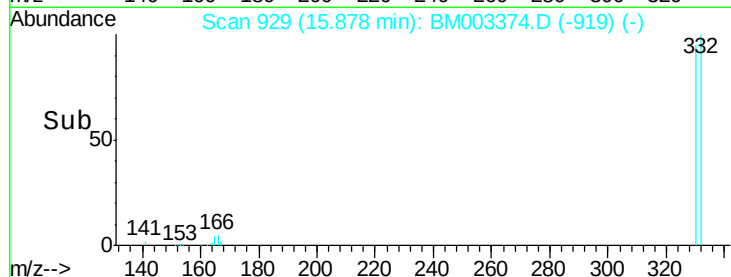
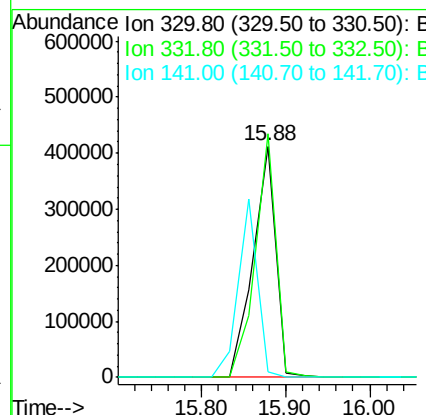
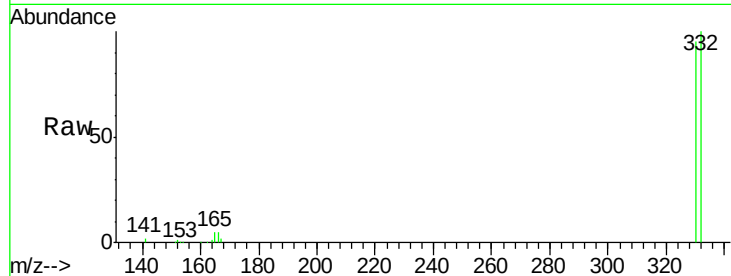




#14
 2,4,6-Tribromophenol
 Concen: 40.02 ng
 RT: 15.88 min Scan# 929
 Delta R.T. 0.02 min
 Lab File: BM003374.D
 Acq: 03 Dec 2015 17:15

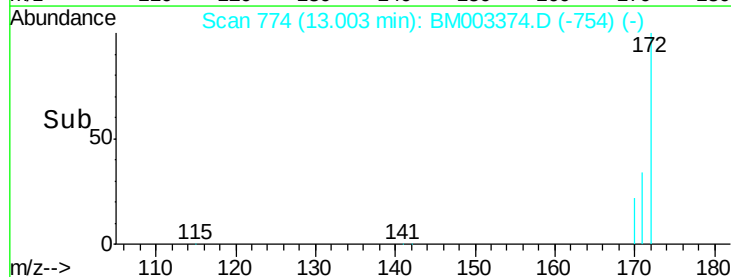
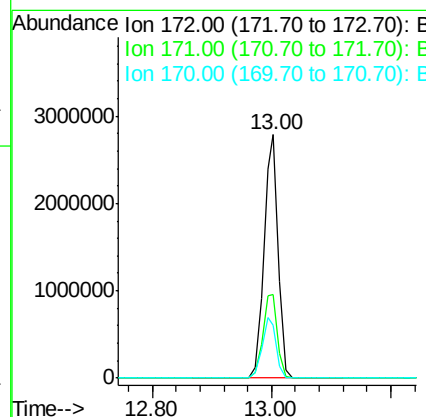
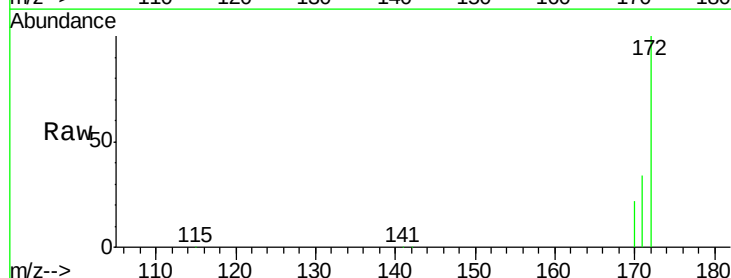
Instrument :
 BNA_M
 ClientSampleId :
 LIBERTYSF-002-SPLPSVOC1

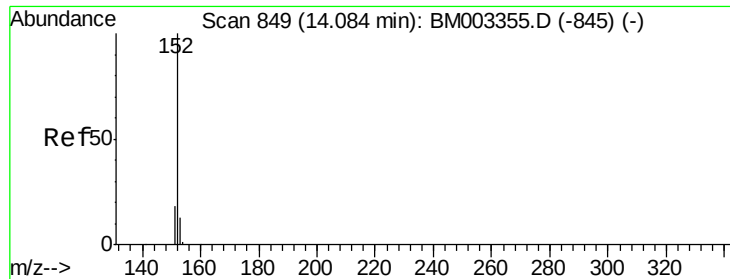
Tgt Ion:330 Resp: 773390
 Ion Ratio Lower Upper
 330 100
 332 96.4 76.0 114.0
 141 0.0 0.0 0.0



#15
 2-Fluorobiphenyl
 Concen: 21.20 ng
 RT: 13.00 min Scan# 774
 Delta R.T. 0.01 min
 Lab File: BM003374.D
 Acq: 03 Dec 2015 17:15

Tgt Ion:172 Resp: 4646399
 Ion Ratio Lower Upper
 172 100
 171 34.2 28.0 42.0
 170 21.8 18.9 28.3





#16

Acenaphthylene

Concen: 0.03 ng

RT: 14.08 min Scan# 848

Delta R.T. -0.00 min

Lab File: BM003374.D

Acq: 03 Dec 2015 17:15

Instrument :

BNA_M

ClientSampleId :

LIBERTYSF-002-SPLPSVOC1

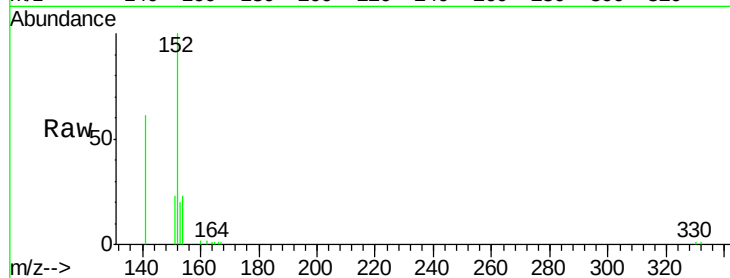
Tgt Ion:152 Resp: 9376

Ion Ratio Lower Upper

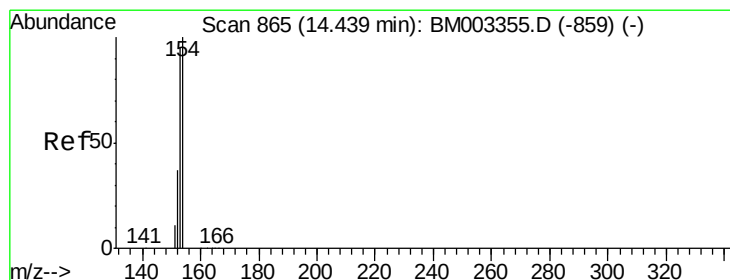
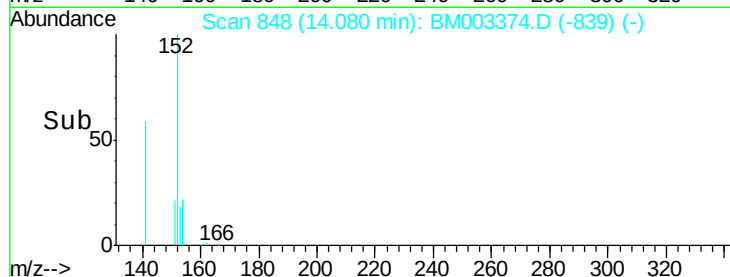
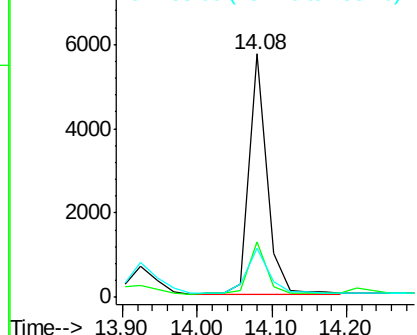
152 100

151 22.2 15.2 22.8

153 23.4 10.4 15.6#



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: 1.59 ng

RT: 14.44 min Scan# 864

Delta R.T. -0.00 min

Lab File: BM003374.D

Acq: 03 Dec 2015 17:15

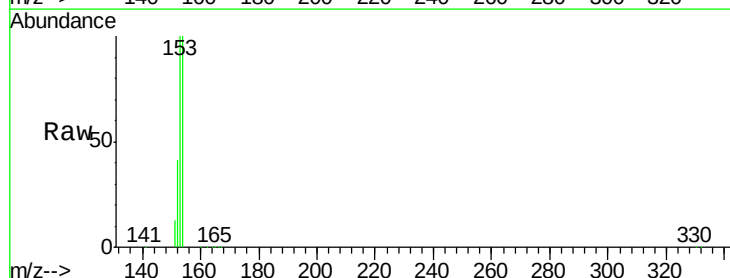
Tgt Ion:154 Resp: 306128

Ion Ratio Lower Upper

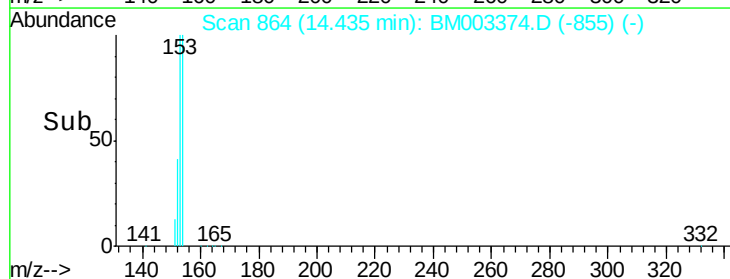
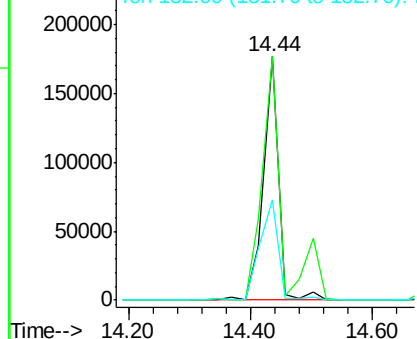
154 100

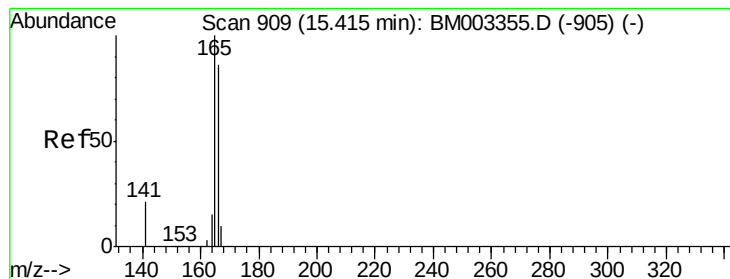
153 110.8 0.0 0.0#

152 50.9 0.0 0.0#



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: 1.66 ng

RT: 15.43 min Scan# 909

Delta R.T. 0.02 min

Lab File: BM003374.D

Acq: 03 Dec 2015 17:15

Instrument :

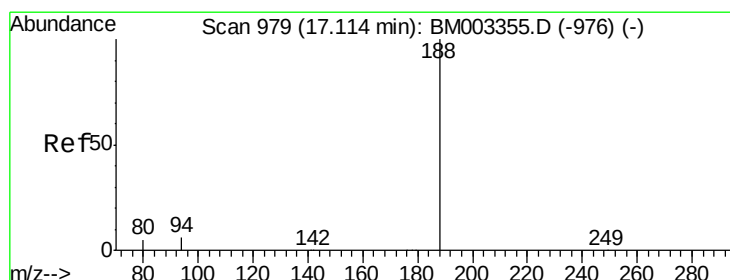
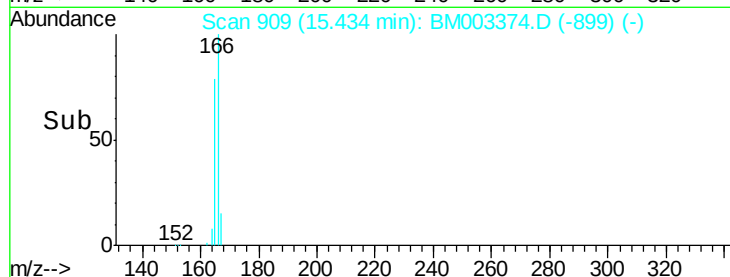
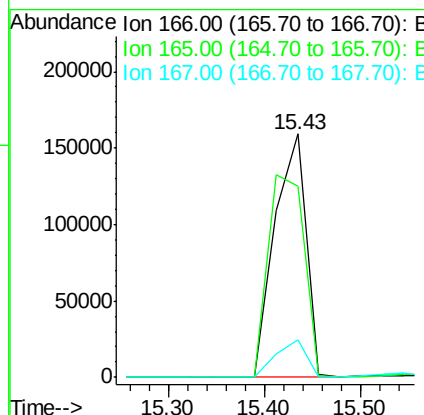
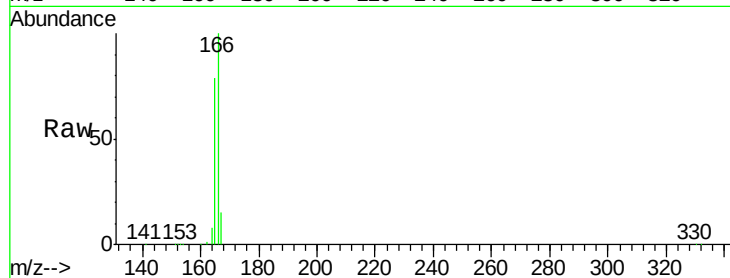
BNA_M

ClientSampleId :

LIBERTYSF-002-SPLPSVOC1

Tgt Ion:166 Resp: 361002

Ion	Ratio	Lower	Upper
166	100		
165	0.0	80.8	121.2#
167	15.2	10.5	15.7



#19

Phenanthrene-d10

Concen: 5.00 ng

RT: 17.11 min Scan# 978

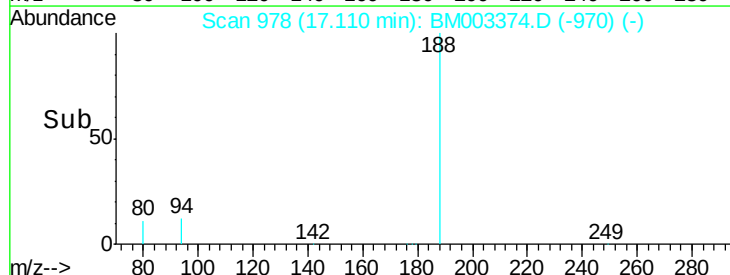
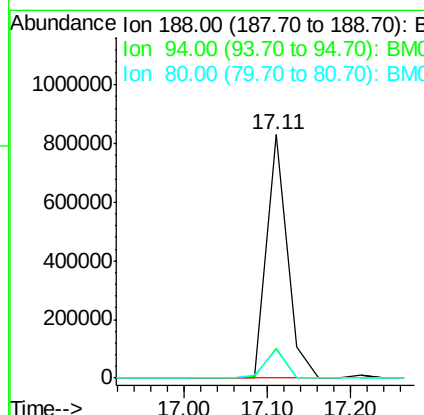
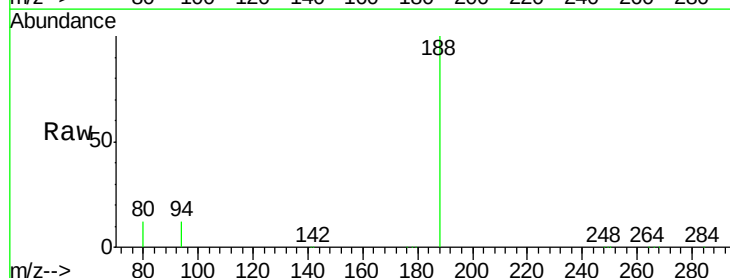
Delta R.T. -0.00 min

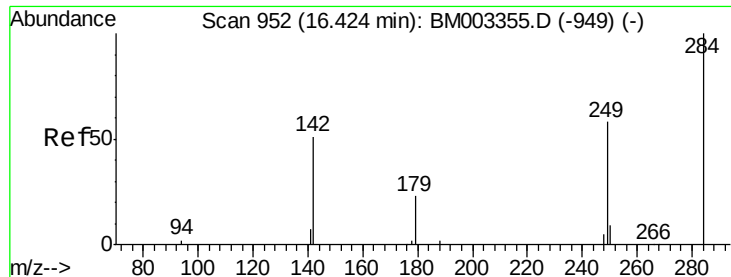
Lab File: BM003374.D

Acq: 03 Dec 2015 17:15

Tgt Ion:188 Resp: 1444766

Ion	Ratio	Lower	Upper
188	100		
94	12.1	1.8	2.6#
80	11.5	1.4	2.0#





#21

Hexachlorobenzene

Concen: Below Cal

RT: 16.42 min Scan# 951

Delta R.T. -0.00 min

Lab File: BM003374.D

Acq: 03 Dec 2015 17:15

Instrument :

BNA_M

ClientSampleId :

LIBERTYSF-002-SPLPSVOC1

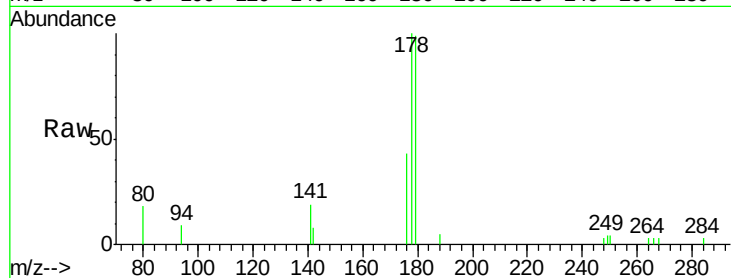
Tgt Ion:284 Resp: 21

Ion Ratio Lower Upper

284 100

142 0.0 0.0 0.0

249 0.0 19.4 29.2#

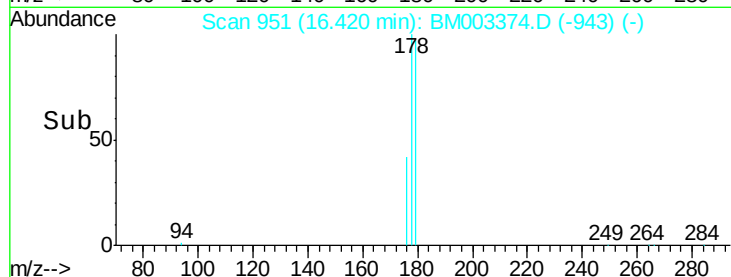


Abundance Ion 283.80 (283.50 to 284.50): E

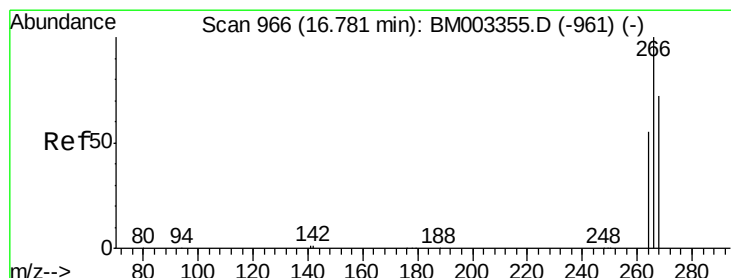
Ion 142.00 (141.70 to 142.70): E

Ion 249.00 (248.70 to 249.70): E

Time-->



Time-->



#22

Pentachlorophenol

Concen: 0.40 ng

RT: 16.78 min Scan# 965

Delta R.T. -0.00 min

Lab File: BM003374.D

Acq: 03 Dec 2015 17:15

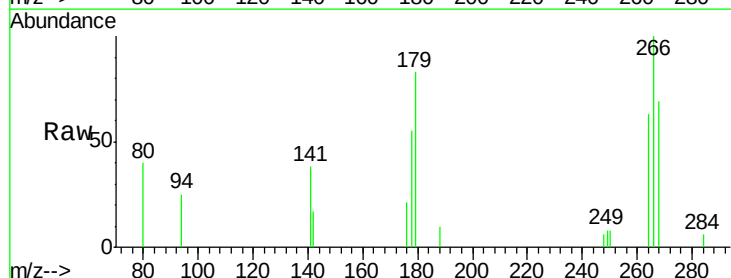
Tgt Ion:266 Resp: 1768

Ion Ratio Lower Upper

266 100

268 68.9 45.8 68.8#

264 62.8 56.7 85.1

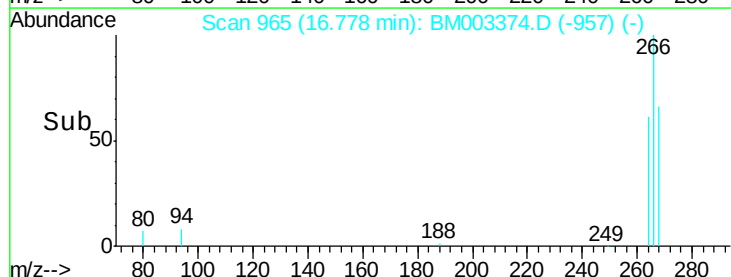


Abundance Ion 265.70 (265.40 to 266.40): E

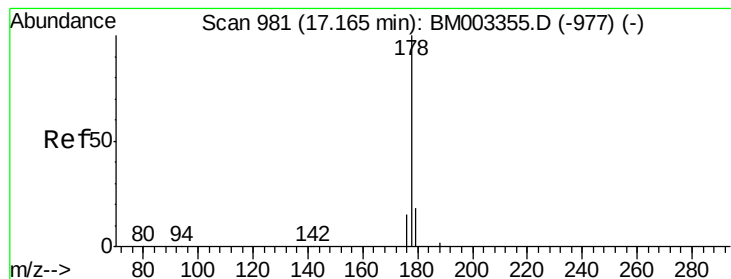
Ion 268.00 (267.70 to 268.70): E

Ion 264.00 (263.70 to 264.70): E

Time-->



Time-->



#23

Phenanthrene

Concen: 4.31 ng

RT: 17.16 min Scan# 980

Delta R.T. -0.00 min

Lab File: BM003374.D

Acq: 03 Dec 2015 17:15

Instrument :

BNA_M

ClientSampleId :

LIBERTYSF-002-SPLPSVOC1

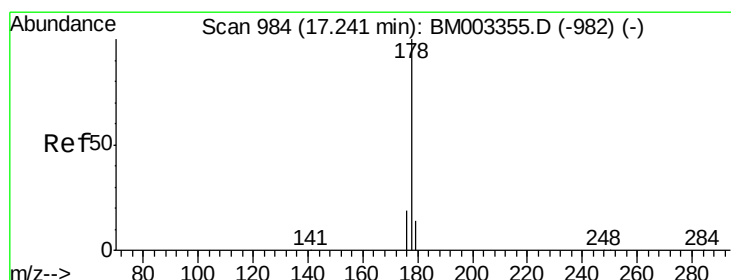
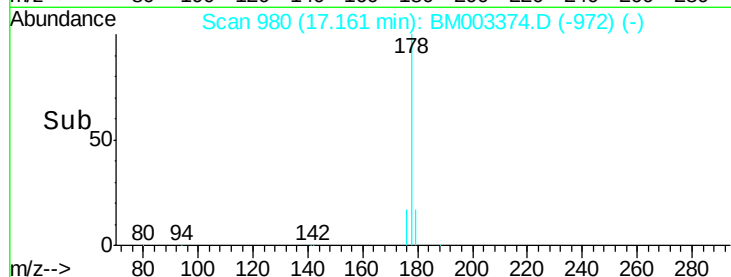
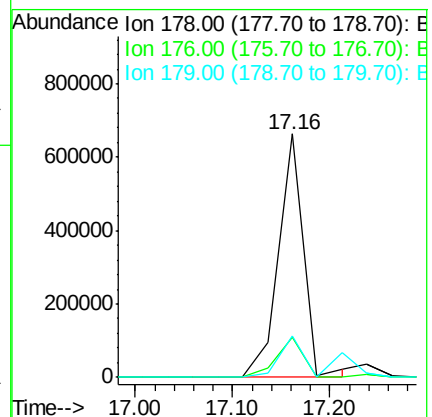
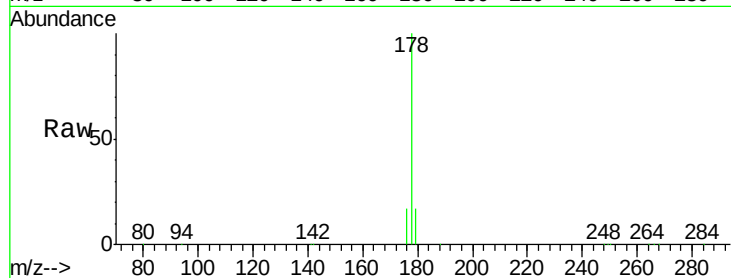
Tgt Ion:178 Resp: 1201459

Ion Ratio Lower Upper

178 100

176 17.6 15.9 23.9

179 26.3 11.7 17.5#



#24

Anthracene

Concen: 4.09 ng

RT: 17.16 min Scan# 980

Delta R.T. -0.08 min

Lab File: BM003374.D

Acq: 03 Dec 2015 17:15

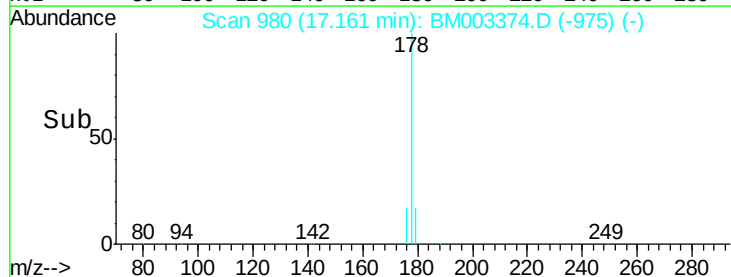
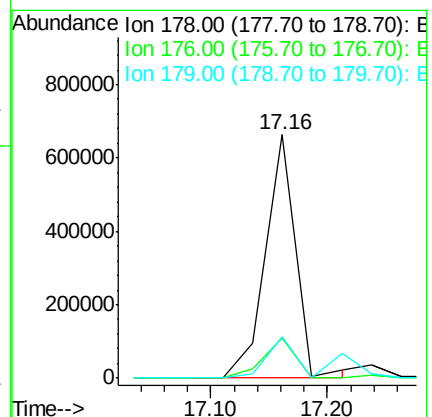
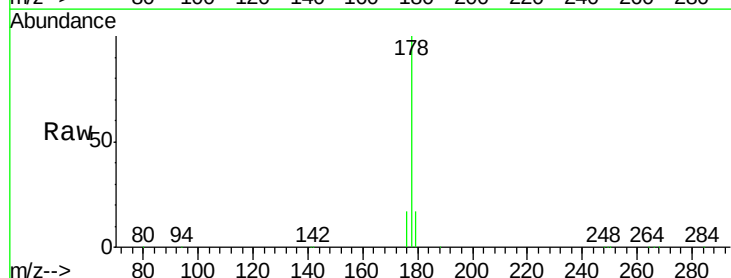
Tgt Ion:178 Resp: 1201648

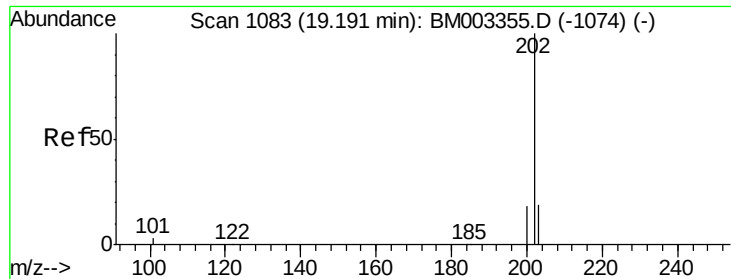
Ion Ratio Lower Upper

178 100

176 17.6 14.1 21.1

179 26.7 12.8 19.2#





#25

Fluoranthene

Concen: 0.46 ng

RT: 19.18 min Scan# 1081

Delta R.T. -0.01 min

Lab File: BM003374.D

Acq: 03 Dec 2015 17:15

Instrument :

BNA_M

ClientSampleId :

LIBERTYSF-002-SPLPSVOC1

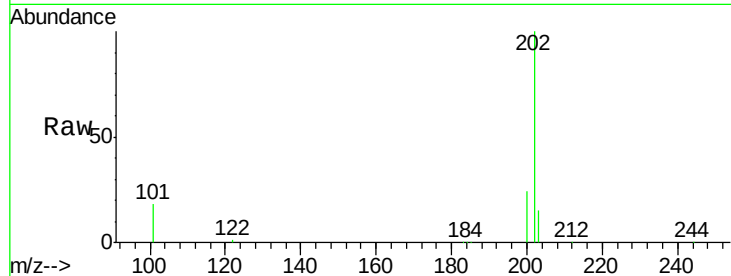
Tgt Ion:202 Resp: 131502

Ion Ratio Lower Upper

202 100

101 12.6 9.9 14.9

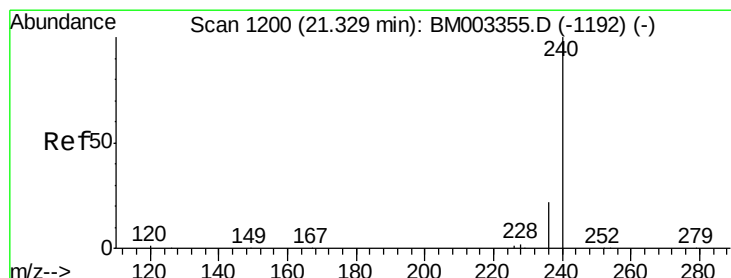
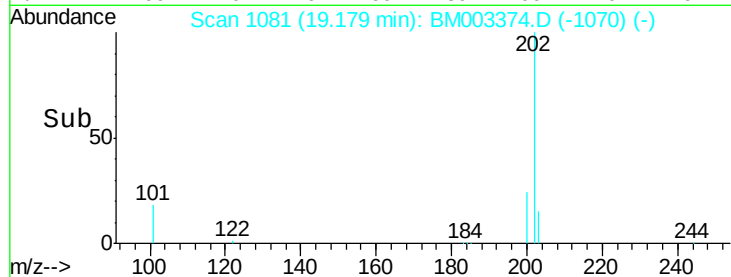
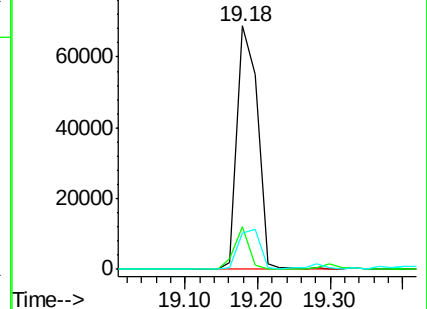
203 17.2 13.9 20.9



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: 21.32 min Scan# 1198

Delta R.T. -0.01 min

Lab File: BM003374.D

Acq: 03 Dec 2015 17:15

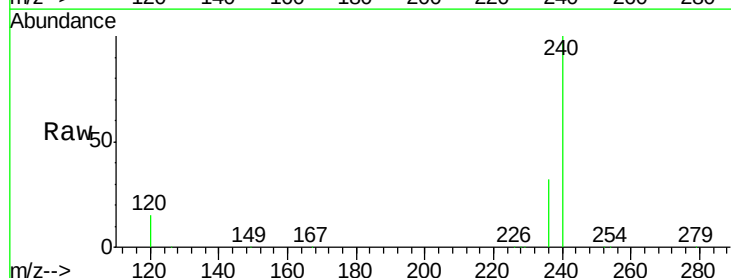
Tgt Ion:240 Resp: 1020932

Ion Ratio Lower Upper

240 100

120 14.9 1.0 1.4#

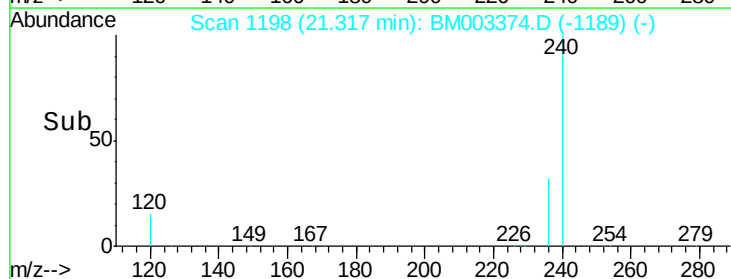
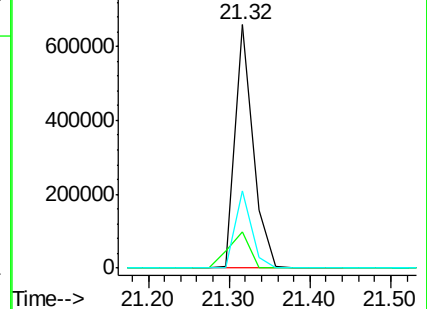
236 32.0 17.9 26.9#

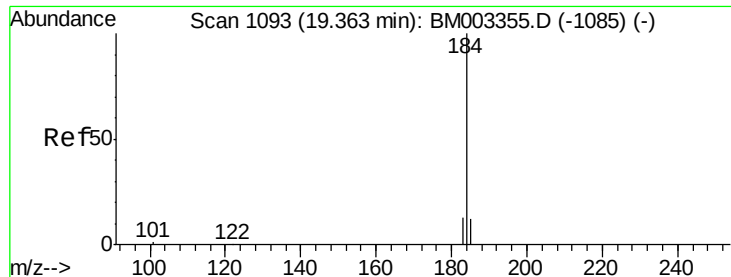


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#27

Benzidine

Concen: 0.94 ng

RT: 19.76 min Scan# 1115

Delta R.T. 0.40 min

Lab File: BM003374.D

Acq: 03 Dec 2015 17:15

Instrument :

BNA_M

ClientSampleId :

LIBERTYSF-002-SPLPSVOC1

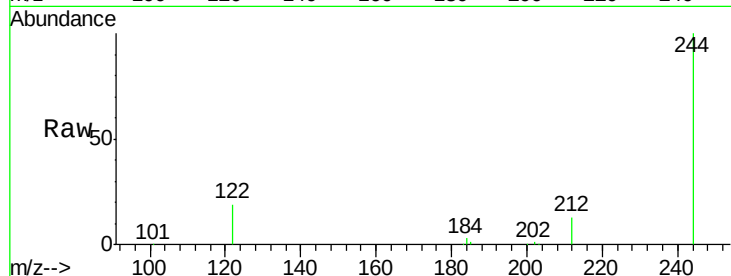
Tgt Ion:184 Resp: 75627

Ion Ratio Lower Upper

184 100

185 18.6 11.6 17.4#

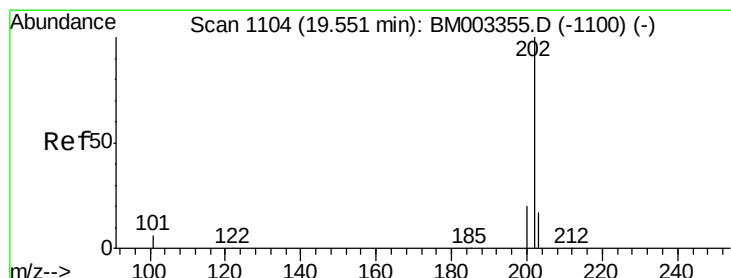
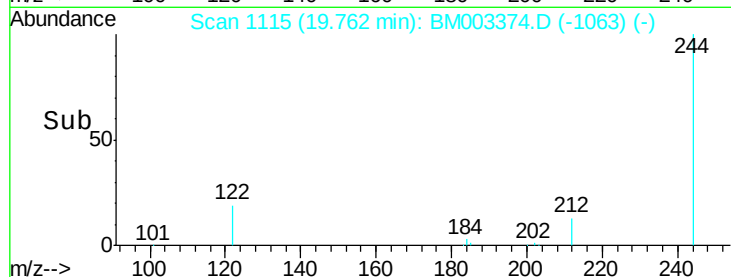
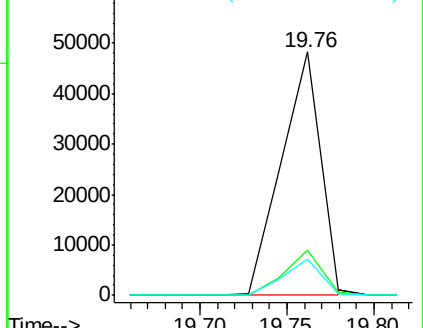
183 14.8 8.6 13.0#



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: 0.16 ng

RT: 19.56 min Scan# 1103

Delta R.T. 0.00 min

Lab File: BM003374.D

Acq: 03 Dec 2015 17:15

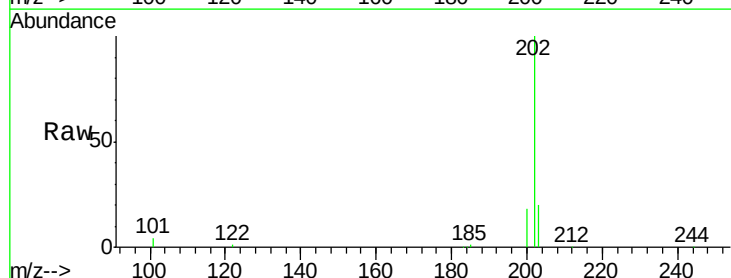
Tgt Ion:202 Resp: 58605

Ion Ratio Lower Upper

202 100

200 20.9 16.7 25.1

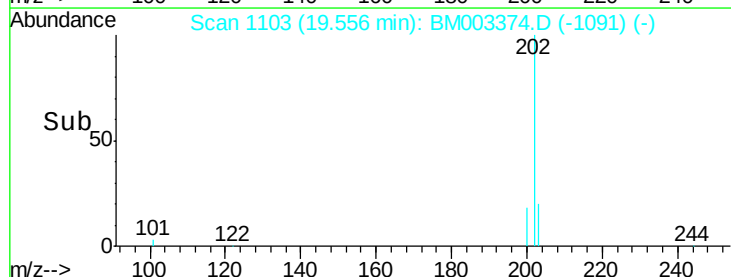
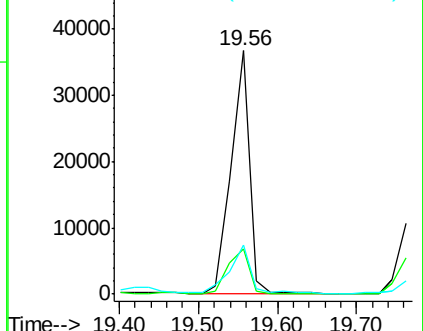
203 22.7 13.8 20.6#

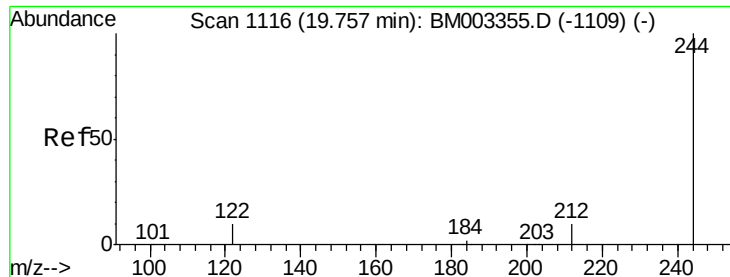


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#29

Terphenyl-d14

Concen: 14.97 ng

RT: 19.76 min Scan# 1115

Delta R.T. 0.00 min

Lab File: BM003374.D

Acq: 03 Dec 2015 17:15

Instrument :

BNA_M

ClientSampleId :

LIBERTYSF-002-SPLPSVOC1

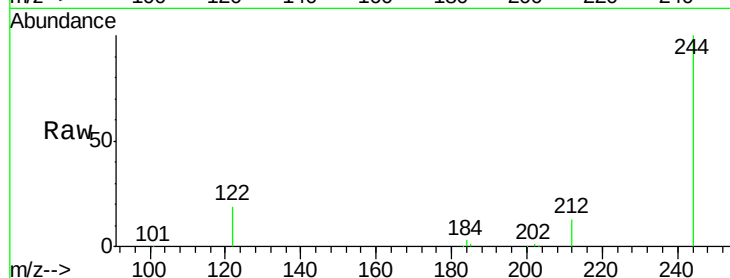
Tgt Ion:244 Resp: 2478482

Ion Ratio Lower Upper

244 100

212 13.0 6.5 9.7#

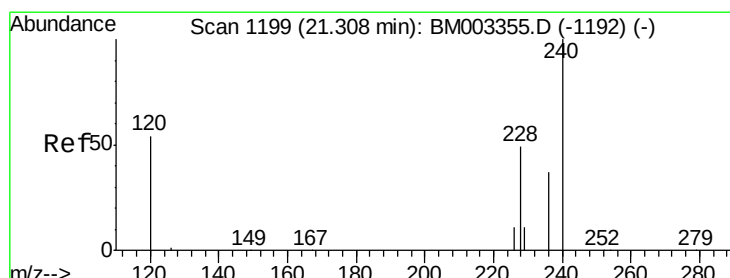
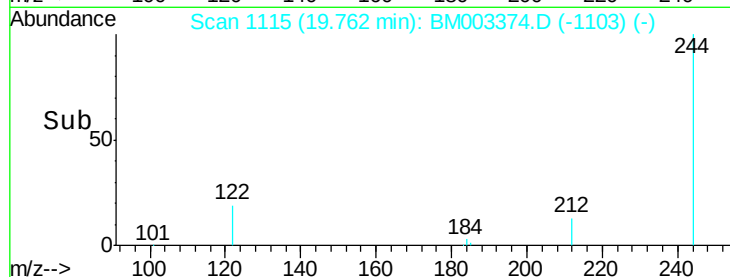
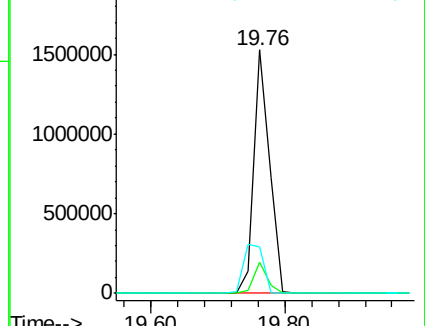
122 19.1 2.0 3.0#



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: 0.03 ng

RT: 21.32 min Scan# 1198

Delta R.T. 0.01 min

Lab File: BM003374.D

Acq: 03 Dec 2015 17:15

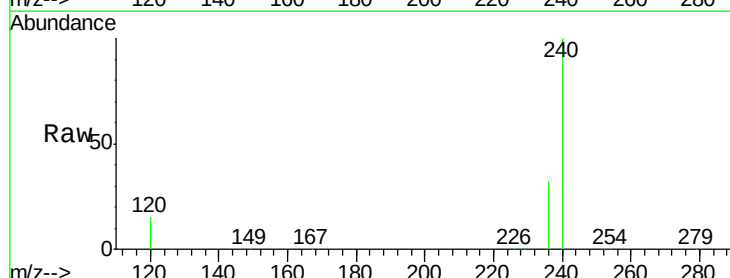
Tgt Ion:228 Resp: 7921

Ion Ratio Lower Upper

228 100

226 13.3 17.8 26.6#

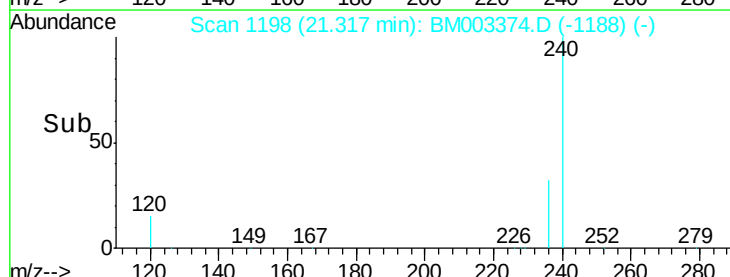
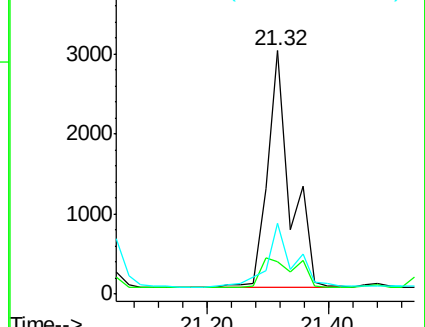
229 28.9 18.0 27.0#

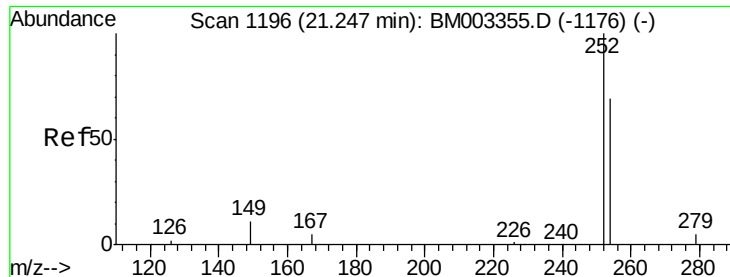


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

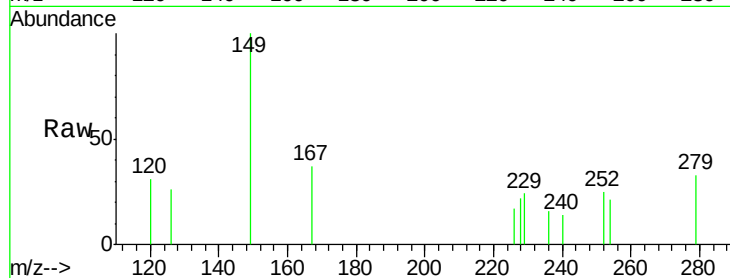




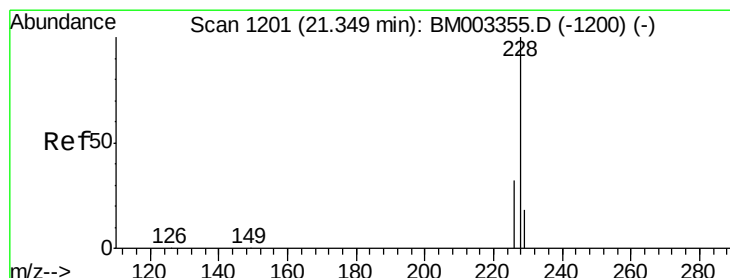
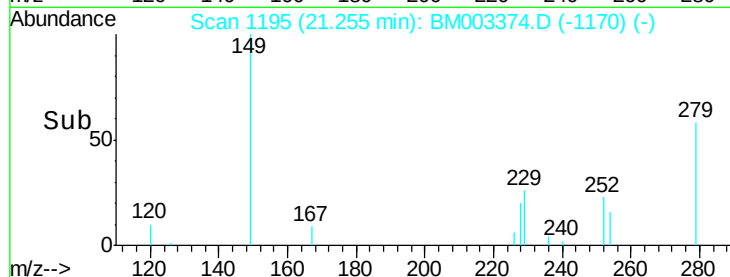
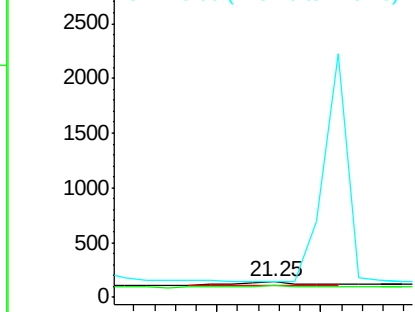
#31
 3,3'-Dichlorobenzidine
 Concen: 0.09 ng
 RT: 21.25 min Scan# 1195
 Delta R.T. 0.01 min
 Lab File: BM003374.D
 Acq: 03 Dec 2015 17:15

Instrument :
 BNA_M
 ClientSampleId :
 LIBERTYSF-002-SPLPSVOC1

Tgt Ion: 252 Resp: 116
 Ion Ratio Lower Upper
 252 100
 254 82.0 53.7 80.5#
 126 104.3 2.8 4.2#

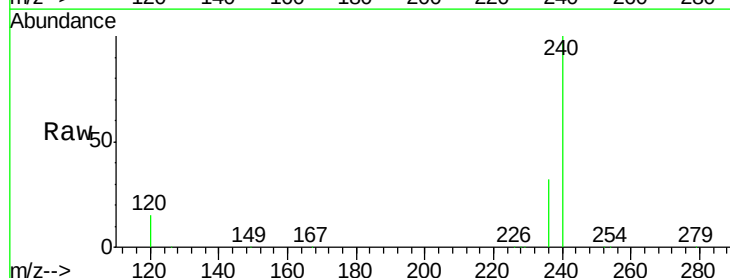


Abundance Ion 252.00 (251.70 to 252.70): E
 Ion 254.00 (253.70 to 254.70): E
 Ion 126.00 (125.70 to 126.70): E

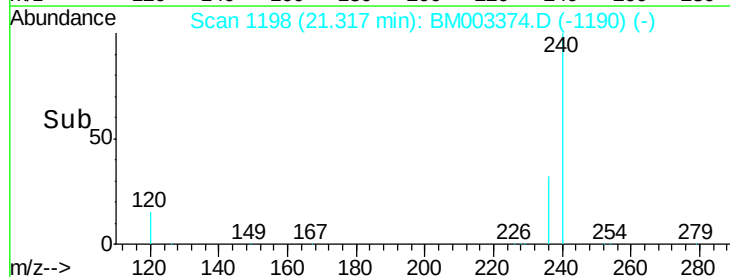
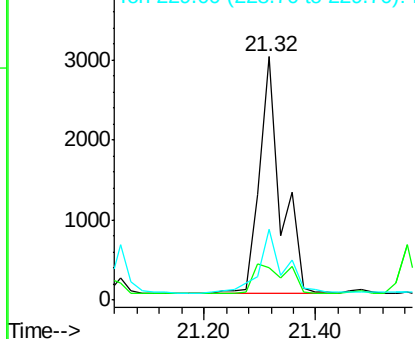


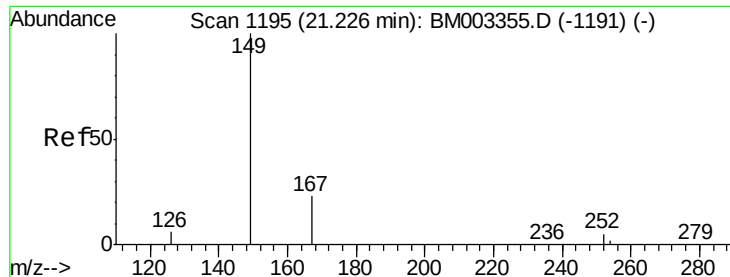
#32
 Chrysene
 Concen: 0.02 ng
 RT: 21.32 min Scan# 1198
 Delta R.T. -0.03 min
 Lab File: BM003374.D
 Acq: 03 Dec 2015 17:15

Tgt Ion: 228 Resp: 7932
 Ion Ratio Lower Upper
 228 100
 226 13.3 25.5 38.3#
 229 28.9 14.3 21.5#



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: 0.33 ng

RT: 21.23 min Scan# 1194

Delta R.T. 0.01 min

Lab File: BM003374.D

Acq: 03 Dec 2015 17:15

Instrument :

BNA_M

ClientSampleId :

LIBERTYSF-002-SPLPSVOC1

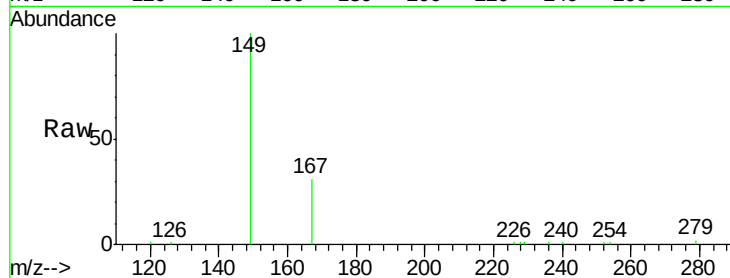
Tgt Ion:149 Resp: 15686

Ion Ratio Lower Upper

149 100

167 28.9 19.6 29.4

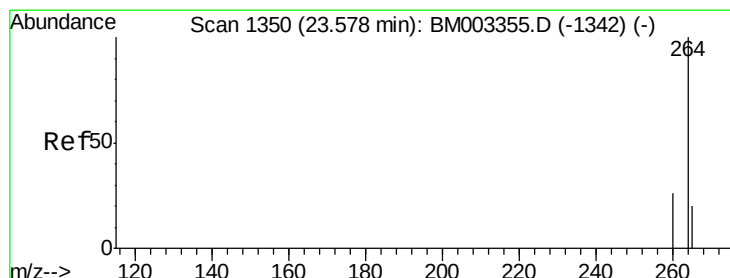
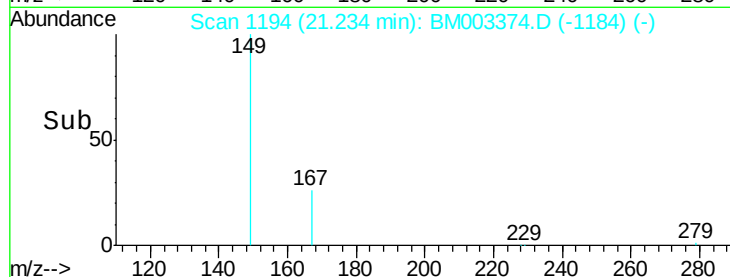
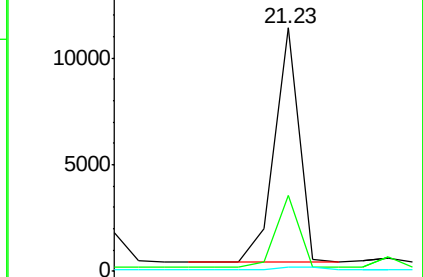
279 2.1 0.0 0.0#



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



#35

Perylene-d12

Concen: 5.00 ng

RT: 23.59 min Scan# 1350

Delta R.T. 0.01 min

Lab File: BM003374.D

Acq: 03 Dec 2015 17:15

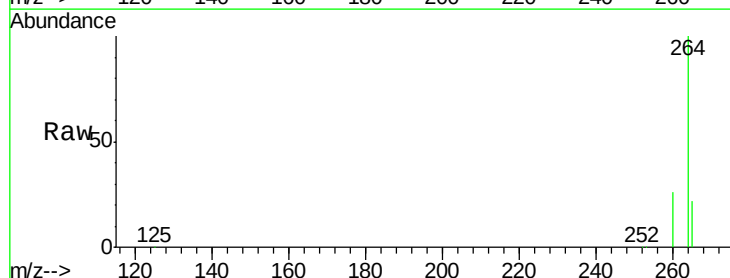
Tgt Ion:264 Resp: 912657

Ion Ratio Lower Upper

264 100

260 25.6 19.6 29.4

265 21.7 18.4 27.6



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

