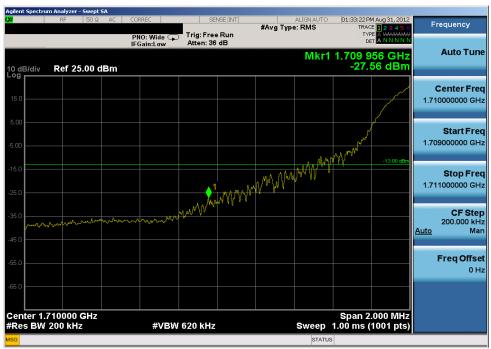


# BAND 4 - 20 MHZ BW



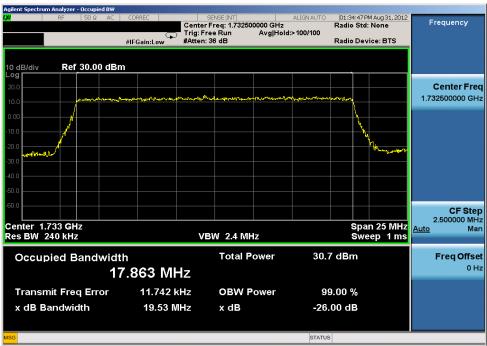
Plot 7-91. Lower Band Edge Plot (QPSK - RB Size 1, Offset 0)



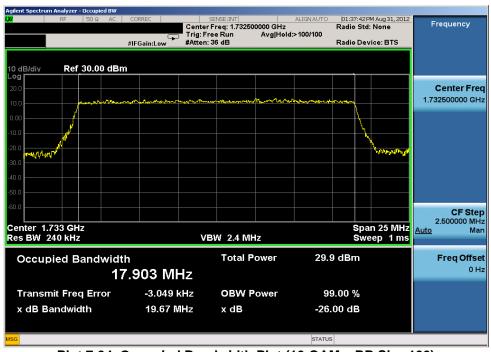
Plot 7-92. Lower Band Edge Plot (QPSK - RB Size 100)

FCC ID: A3LSGHI317	PETEST:	FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Page 82 of 117
0Y1208291264.A3L	Aug. 20 - Sept. 7, 2012	Portable Handset		Faye 02 01 117





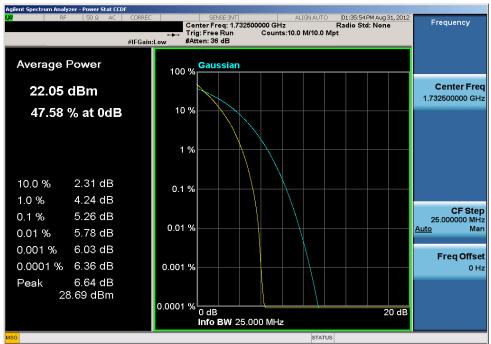
Plot 7-93. Occupied Bandwidth Plot (QPSK - RB Size 100)



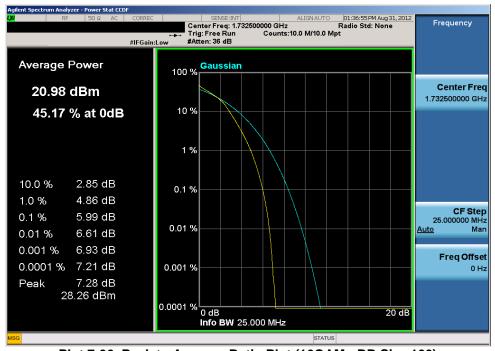
Plot 7-94. Occupied Bandwidth Plot (16-QAM - RB Size 100)

FCC ID: A3LSGHI317	PCTEST	FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION)	Reviewed by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 83 of 117
0Y1208291264.A3L	Aug. 20 - Sept. 7, 2012	Portable Handset	Page 63 01 117





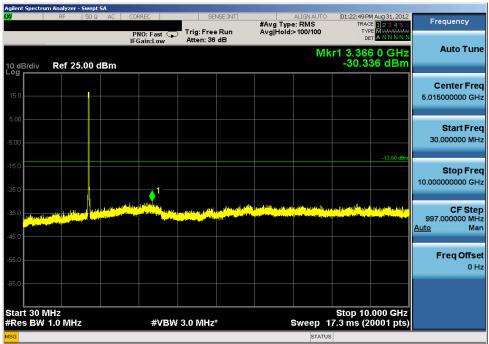
Plot 7-95. Peak to Average Ratio Plot (QPSK - RB Size 100)



Plot 7-96. Peak to Average Ratio Plot (16QAM - RB Size 100)

FCC ID: A3LSGHI317	PCTEST'	FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Page 84 of 117
0Y1208291264.A3L	Aug. 20 - Sept. 7, 2012	Portable Handset		Fage 04 01 117





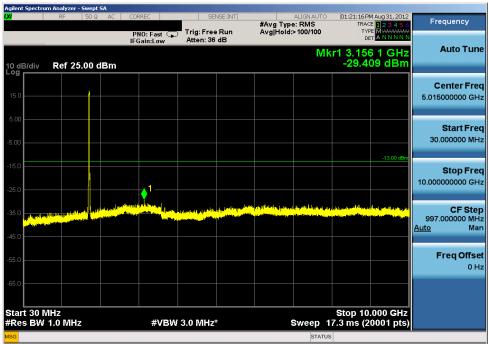
Plot 7-97. Conducted Spurious Plot (QPSK - RB Size 1, RB Offset 0- Low Channel)



Plot 7-98. Conducted Spurious Plot (QPSK - RB Size 1, RB Offset 0 - Low Channel)

FCC ID: A3LSGHI317	PCTEST'	FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Page 85 of 117
0Y1208291264.A3L	Aug. 20 - Sept. 7, 2012	Portable Handset		Faye 03 01 117





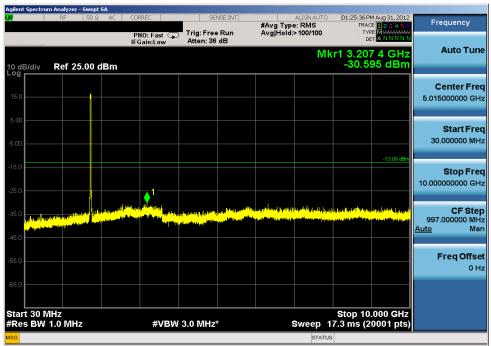
Plot 7-99. Conducted Spurious Plot (QPSK - RB Size 1, RB Offset 0 - Mid Channel)



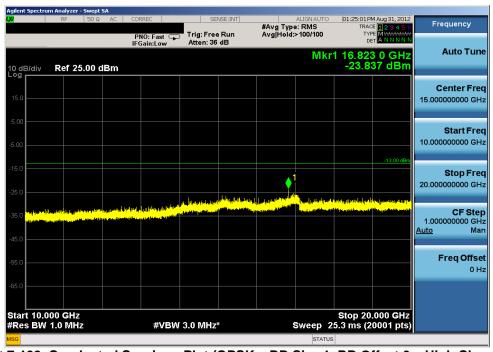
Plot 7-100. Conducted Spurious Plot (QPSK - RB Size 1, RB Offset 0 - Mid Channel)

FCC ID: A3LSGHI317	PETEST VENERALISM LABORATERS, INC.	FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Page 86 of 117
0Y1208291264.A3L	Aug. 20 - Sept. 7, 2012	Portable Handset		Fage 00 01 117





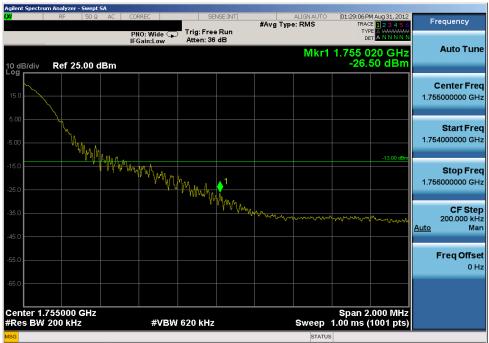
Plot 7-101. Conducted Spurious Plot (QPSK – RB Size 1, RB Offset 0 – High Channel)



Plot 7-102. Conducted Spurious Plot (QPSK – RB Size 1, RB Offset 0 – High Channel)

FCC ID: A3LSGHI317	PETEST:	FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Page 87 of 117
0Y1208291264.A3L	Aug. 20 - Sept. 7, 2012	Portable Handset		Fage of Ol 117





Plot 7-103. Upper Band Edge Plot (QPSK - RB Size 1, Offset 99)



Plot 7-104. Upper Band Edge Plot (QPSK - RB Size 100)

FCC ID: A3LSGHI317	PCTEST	FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION)	Reviewed by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 88 of 117
0Y1208291264.A3L	Aug. 20 - Sept. 7, 2012	Portable Handset	Fage 66 01 117



# BAND 2 - 5 MHZ BW



Plot 7-105. Lower Band Edge Plot (QPSK - RB Size 1, Offset 0)



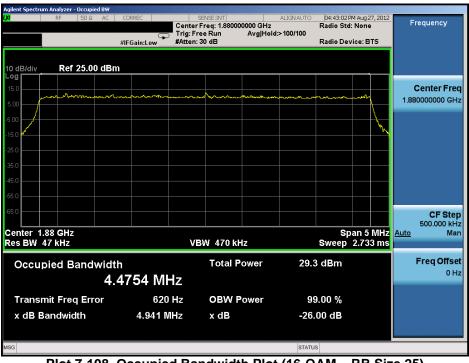
Plot 7-106. Lower Band Edge Plot (QPSK - RB Size 1, Offset 0)

FCC ID: A3LSGHI317	PETEST LABORATERS, INC.	FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Page 89 of 117
0Y1208291264.A3L	Aug. 20 - Sept. 7, 2012	Portable Handset		Fage 03 01 117





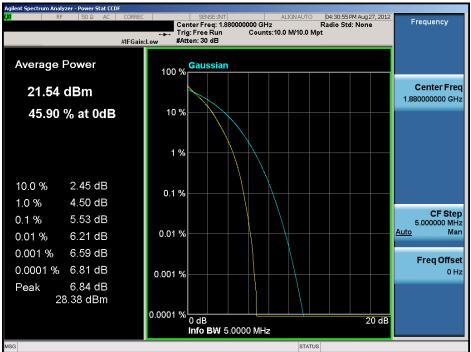
Plot 7-107. Occupied Bandwidth Plot (QPSK - RB Size 25)



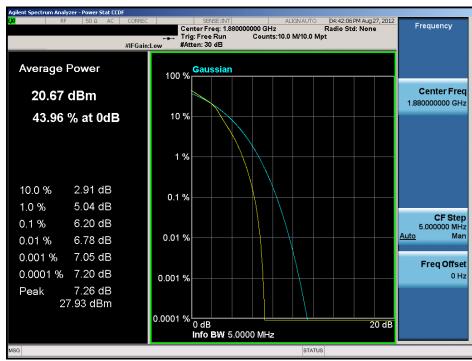
Plot 7-108. Occupied Bandwidth Plot (16-QAM - RB Size 25)

FCC ID: A3LSGHI317	PCTEST'	FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Page 90 of 117
0Y1208291264.A3L	Aug. 20 - Sept. 7, 2012	Portable Handset		Fage 30 01 117





Plot 7-109. Peak to Average Ratio Plot (QPSK - RB Size 25)



Plot 7-110. Peak to Average Ratio Plot (16QAM - RB Size 25)

FCC ID: A3LSGHI317	PETEST LEGISLAND LABORATERY, INC.	FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION)	Reviewed by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 91 of 117
0Y1208291264.A3L	Aug. 20 - Sept. 7, 2012	Portable Handset	Page 91 01 117





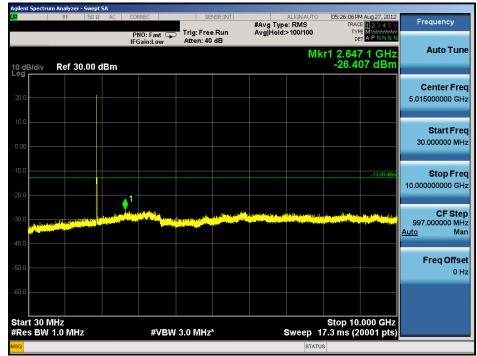
Plot 7-111. Conducted Spurious Plot (QPSK - RB Size 1, RB Offset 0 - Low Channel)



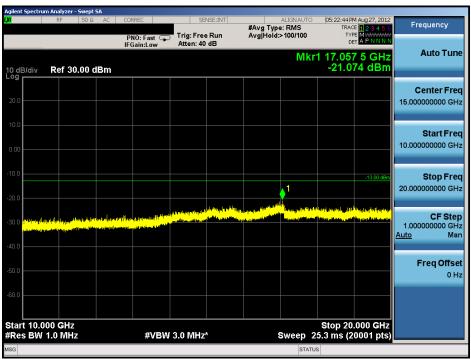
Plot 7-112. Conducted Spurious Plot (QPSK – RB Size 1, RB Offset 0 – Low Channel)

FCC ID: A3LSGHI317	PCTEST INCIDENTE LABORATERY, INC.	FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION)	Reviewed by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 92 of 117
0Y1208291264.A3L	Aug. 20 - Sept. 7, 2012	Portable Handset	Faye 32 01 117





Plot 7-113. Conducted Spurious Plot (QPSK - RB Size 1, RB Offset 0 - Mid Channel)



Plot 7-114. Conducted Spurious Plot (QPSK – RB Size 1, RB Offset 0 – Mid Channel)

FCC ID: A3LSGHI317	ENCINEE AND A TRANSPORTED FOR THE	FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Page 93 of 117
0Y1208291264.A3L	Aug. 20 - Sept. 7, 2012	Portable Handset		Fage 93 01 117
C COLLO DOTEOT E : :				DEVA





Plot 7-115. Conducted Spurious Plot (QPSK – RB Size 1, RB Offset 0 – High Channel)



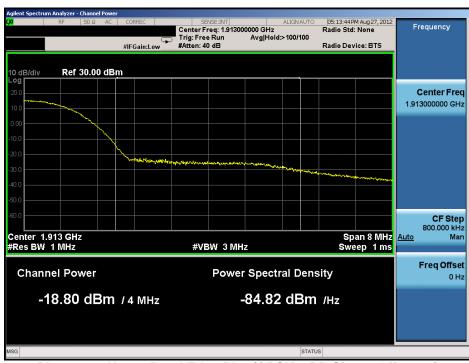
Plot 7-116. Conducted Spurious Plot (QPSK – RB Size 1, RB Offset 0 – High Channel)

FCC ID: A3LSGHI317	PETEST LABORATERS, INC.	FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Page 94 of 117
0Y1208291264.A3L	Aug. 20 - Sept. 7, 2012	Portable Handset		Page 94 of 117





Plot 7-117. Upper Band Edge Plot (QPSK - RB Size 1, Offset 24)

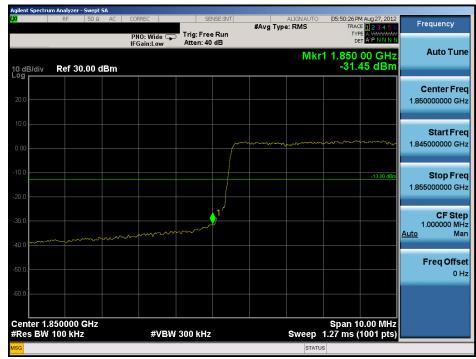


Plot 7-118. Upper Band Edge Plot (QPSK - RB Size 1, Offset 24)

FCC ID: A3LSGHI317	PETEST:	FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Page 95 of 117
0Y1208291264.A3L	Aug. 20 - Sept. 7, 2012	Portable Handset		Fage 33 01 117



# BAND 2 - 10 MHZ BW



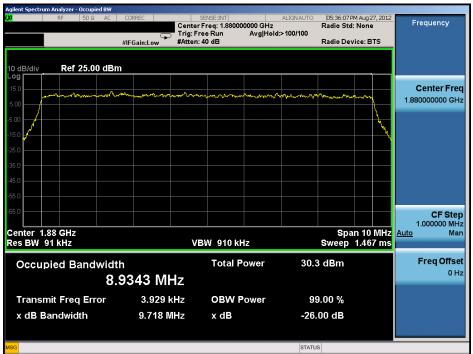
Plot 7-119. Lower Band Edge Plot (QPSK - RB Size 50)



Plot 7-120. Lower Band Edge Plot (QPSK - RB Size 1, Offset 0)

FCC ID: A3LSGHI317	POTEST'	FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Page 96 of 117
0Y1208291264.A3L	Aug. 20 - Sept. 7, 2012	Portable Handset		Page 90 01 117





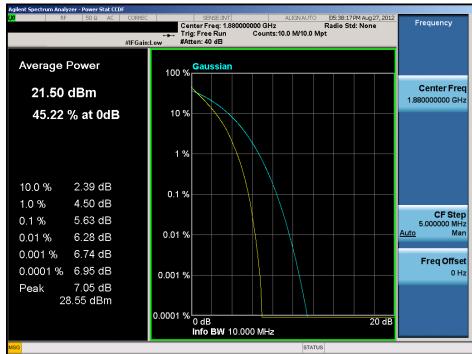
Plot 7-121. Occupied Bandwidth Plot (QPSK - RB Size 50)



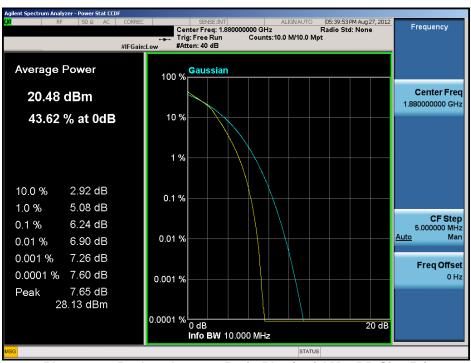
Plot 7-122. Occupied Bandwidth Plot (16-QAM - RB Size 50)

FCC ID: A3LSGHI317	PETEST LABORATERS, INC.	FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Page 97 of 117
0Y1208291264.A3L	Aug. 20 - Sept. 7, 2012	Portable Handset		Faye 37 01 117





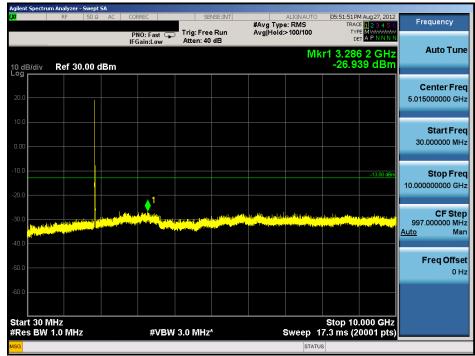
Plot 7-123. Peak to Average Ratio Plot (QPSK - RB Size 50)



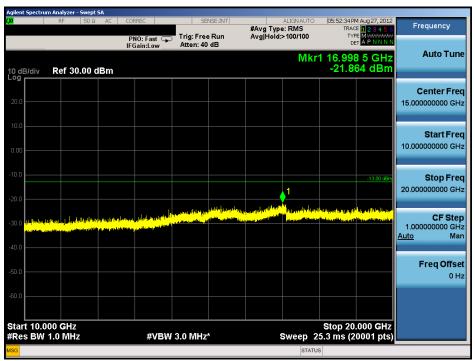
Plot 7-124. Peak to Average Ratio Plot (16QAM - RB Size 50)

FCC ID: A3LSGHI317	POTEST'	FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Page 98 of 117
0Y1208291264.A3L	Aug. 20 - Sept. 7, 2012	Portable Handset		Page 96 01 117





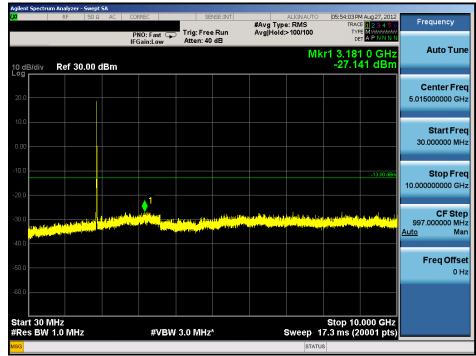
Plot 7-125. Conducted Spurious Plot (QPSK – RB Size 1, RB Offset 0 – Low Channel)



Plot 7-126. Conducted Spurious Plot (QPSK – RB Size 1, RB Offset 0 – Low Channel)

FCC ID: A3LSGHI317	PCTEST'	FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Page 99 of 117
0Y1208291264.A3L	Aug. 20 - Sept. 7, 2012	Portable Handset		Fage 33 01 117





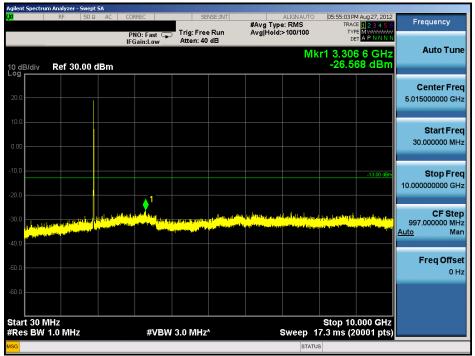
Plot 7-127. Conducted Spurious Plot (QPSK - RB Size 1, RB Offset 0 - Mid Channel)



Plot 7-128. Conducted Spurious Plot (QPSK – RB Size 1, RB Offset 0 – Mid Channel)

FCC ID: A3LSGHI317	PCTEST	FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION)	Reviewed by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 100 of 117
0Y1208291264.A3L	Aug. 20 - Sept. 7, 2012	Portable Handset	Page 100 01 117





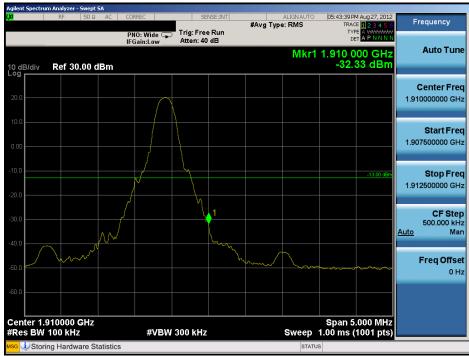
Plot 7-129. Conducted Spurious Plot (QPSK – RB Size 1, RB Offset 0 – High Channel)



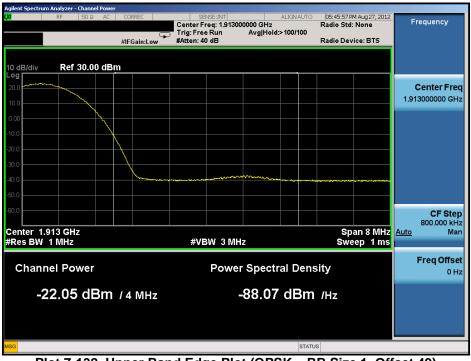
Plot 7-130. Conducted Spurious Plot (QPSK – RB Size 1, RB Offset 0 – High Channel)

FCC ID: A3LSGHI317	PCTEST'	FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Page 101 of 117
0Y1208291264.A3L	Aug. 20 - Sept. 7, 2012	Portable Handset		rage 101 01 117





Plot 7-131. Upper Band Edge Plot (QPSK – RB Size 1, Offset 49)

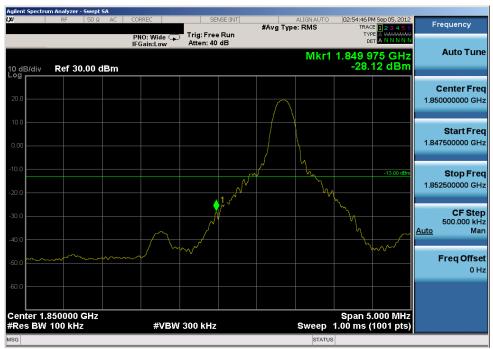


Plot 7-132. Upper Band Edge Plot (QPSK – RB Size 1, Offset 49)

FCC ID: A3LSGHI317	PCTEST (NE.	FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Page 102 of 117
0Y1208291264.A3L	Aug. 20 - Sept. 7, 2012	Portable Handset		Fage 102 01 117



# BAND 2 - 15 MHZ BW



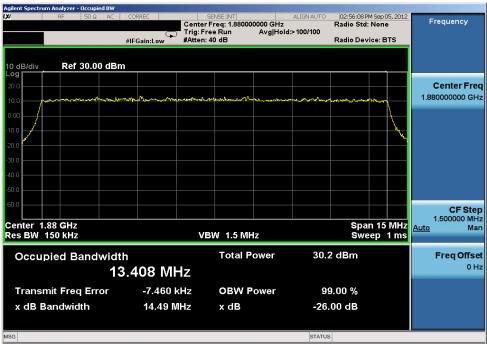
Plot 7-133. Lower Band Edge Plot (QPSK - RB Size 1, Offset 0)



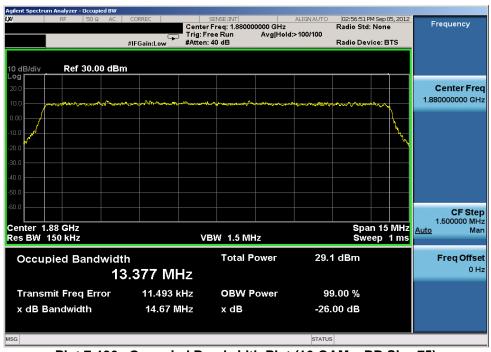
Plot 7-134. Lower Band Edge Plot (QPSK - RB Size 75)

FCC ID: A3LSGHI317	PCTEST (NE.	FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Page 103 of 117
0Y1208291264.A3L	Aug. 20 - Sept. 7, 2012	Portable Handset		Fage 103 01 117





Plot 7-135. Occupied Bandwidth Plot (QPSK - RB Size 75)

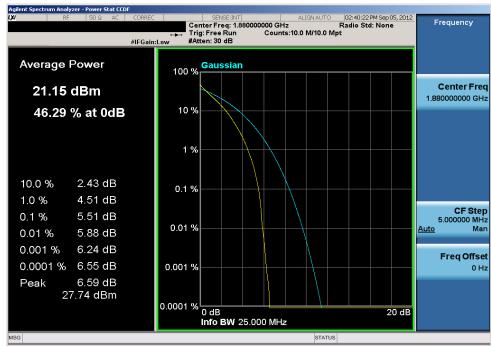


Plot 7-136. Occupied Bandwidth Plot (16-QAM - RB Size 75)

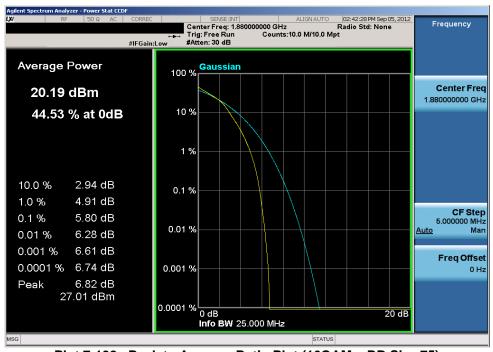
FCC ID: A3LSGHI317	PCTEST	FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION)	Reviewed by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 104 of 117
0Y1208291264.A3L	Aug. 20 - Sept. 7, 2012	Portable Handset	Page 104 01 117

© 2012 PCTEST Engineering Laboratory, Inc.





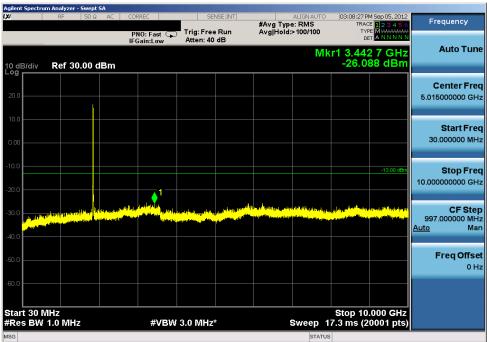
Plot 7-137. Peak to Average Ratio Plot (QPSK - RB Size 75)



Plot 7-138. Peak to Average Ratio Plot (16QAM - RB Size 75)

FCC ID: A3LSGHI317	PCTEST INCIDENTE LABORATERY, INC.	FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION)	Reviewed by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 105 of 117
0Y1208291264.A3L	Aug. 20 - Sept. 7, 2012	Portable Handset	Page 105 01 117





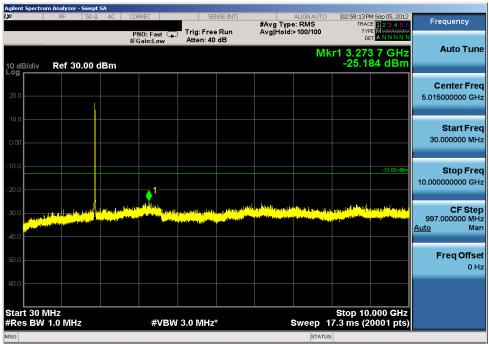
Plot 7-139. Conducted Spurious Plot (QPSK – RB Size 1, RB Offset 0 – Low Channel)



Plot 7-140. Conducted Spurious Plot (QPSK – RB Size 1, RB Offset 0 – Low Channel)

FCC ID: A3LSGHI317	PCTEST'	FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION)	AMSUNG	Reviewed by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Page 106 of 117
0Y1208291264.A3L	Aug. 20 - Sept. 7, 2012	Portable Handset		Fage 100 01 117





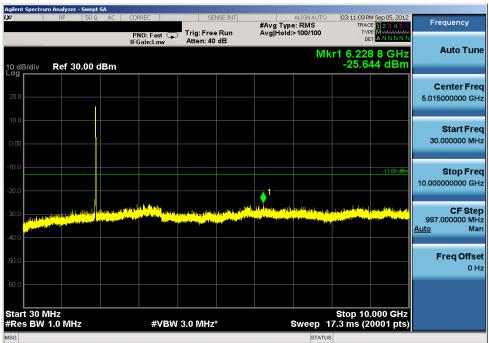
Plot 7-141. Conducted Spurious Plot (QPSK - RB Size 1, RB Offset 0 - Mid Channel)



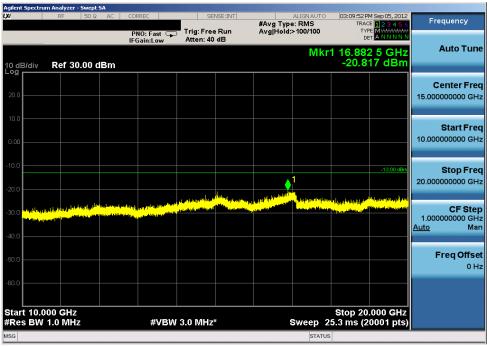
Plot 7-142. Conducted Spurious Plot (QPSK – RB Size 1, RB Offset 0 – Mid Channel)

FCC ID: A3LSGHI317	PCTEST'	FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Page 107 of 117
0Y1208291264.A3L	Aug. 20 - Sept. 7, 2012	Portable Handset		Fage 107 01 117





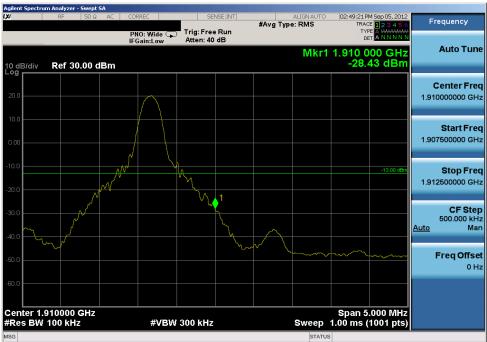
Plot 7-143. Conducted Spurious Plot (QPSK – RB Size 1, RB Offset 0 – High Channel)



Plot 7-144. Conducted Spurious Plot (QPSK – RB Size 1, RB Offset 0 – High Channel)

FCC ID: A3LSGHI317	PCTEST'	FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Page 108 of 117
0Y1208291264.A3L	Aug. 20 - Sept. 7, 2012	Portable Handset		Fage 100 01 117





Plot 7-145. Upper Band Edge Plot (QPSK - RB Size 1, Offset 74)

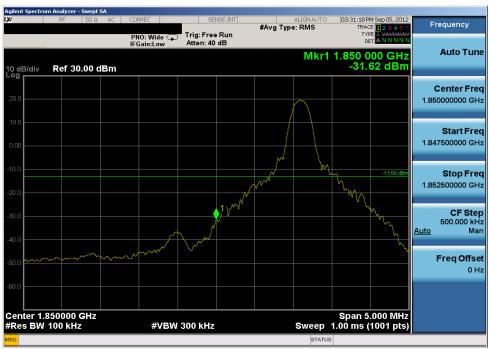


Plot 7-146. Upper Band Edge Plot (QPSK - RB Size 75)

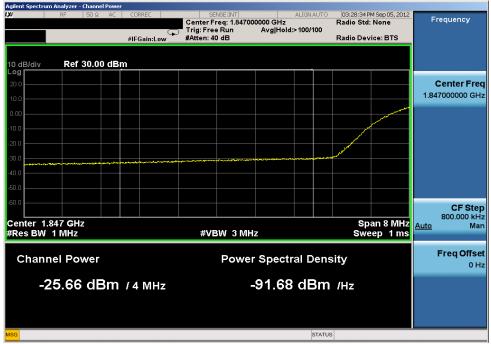
FCC ID: A3LSGHI317	PCTEST'	FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION)	MSUNG	Reviewed by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Page 109 of 117
0Y1208291264.A3L	Aug. 20 - Sept. 7, 2012	Portable Handset		Fage 109 01 117



# BAND 2 - 20 MHZ BW



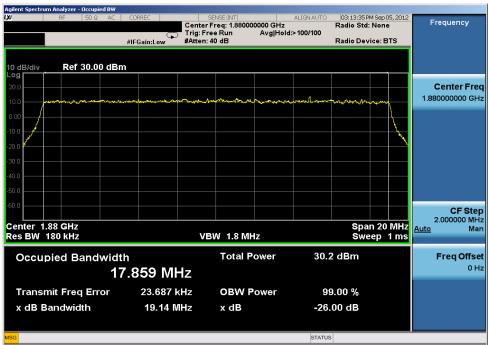
Plot 7-147. Lower Band Edge Plot (QPSK - RB Size 1, Offset 0)



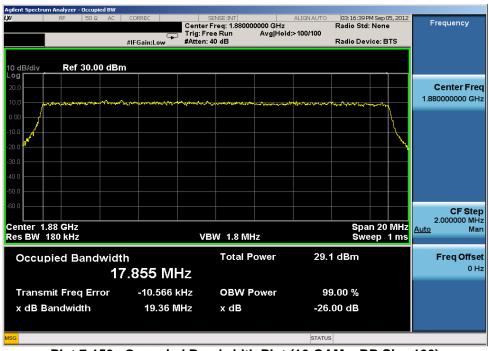
Plot 7-148. Lower Band Edge Plot (QPSK - RB Size 100)

FCC ID: A3LSGHI317	PCTEST.	FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Page 110 of 117
0Y1208291264.A3L	Aug. 20 - Sept. 7, 2012	Portable Handset		Fage 110 01 117





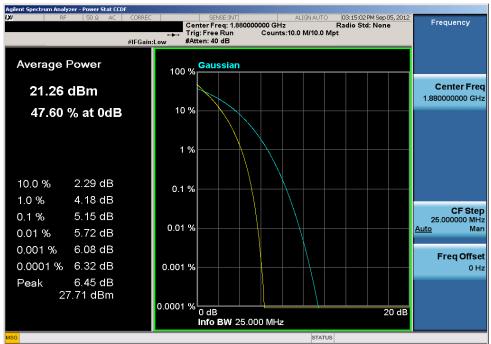
Plot 7-149. Occupied Bandwidth Plot (QPSK - RB Size 100)



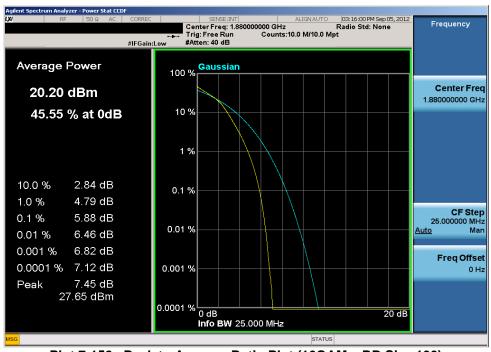
Plot 7-150. Occupied Bandwidth Plot (16-QAM - RB Size 100)

FCC ID: A3LSGHI317	PCTEST	FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Page 111 of 117
0Y1208291264.A3L	Aug. 20 - Sept. 7, 2012	Portable Handset		Fage 111 01 117





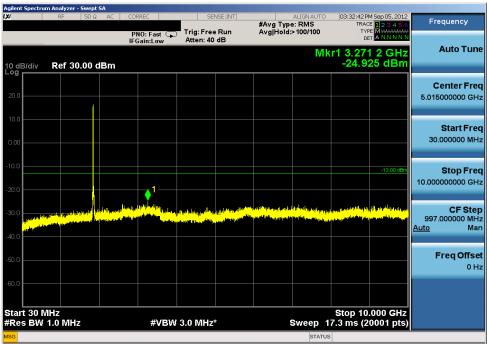
Plot 7-151. Peak to Average Ratio Plot (QPSK - RB Size 100)



Plot 7-152. Peak to Average Ratio Plot (16QAM - RB Size 100)

FCC ID: A3LSGHI317	PCTEST	FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION)	Reviewed by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 112 of 117
0Y1208291264.A3L	Aug. 20 - Sept. 7, 2012	Portable Handset	Fage 112 01 117





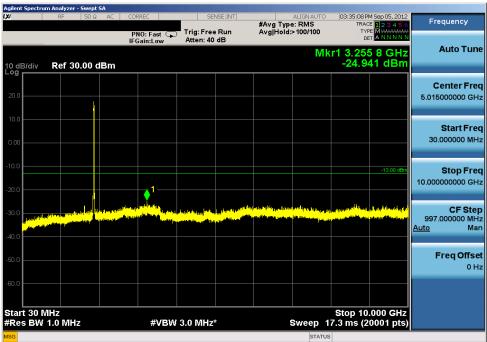
Plot 7-153. Conducted Spurious Plot (QPSK – RB Size 1, RB Offset 0 – Low Channel)



Plot 7-154. Conducted Spurious Plot (QPSK – RB Size 1, RB Offset 0 – Low Channel)

FCC ID: A3LSGHI317	PCTEST'	FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION)	Reviewed by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 113 of 117
0Y1208291264.A3L	Aug. 20 - Sept. 7, 2012	Portable Handset	raye 113 01 117





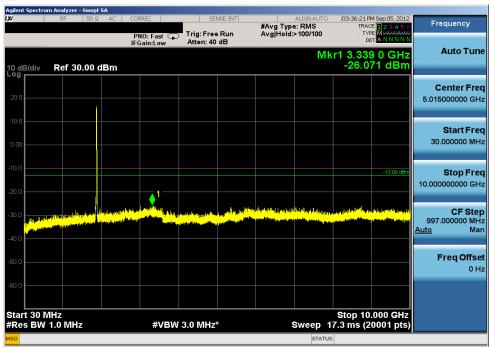
Plot 7-155. Conducted Spurious Plot (QPSK - RB Size 1, RB Offset 0 - Mid Channel)



Plot 7-156. Conducted Spurious Plot (QPSK - RB Size 1, RB Offset 0 - Mid Channel)

FCC ID: A3LSGHI317	PCTEST'	FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Page 114 of 117
0Y1208291264.A3L	Aug. 20 - Sept. 7, 2012	Portable Handset		Faye 114 01 117





Plot 7-157. Conducted Spurious Plot (QPSK – RB Size 1, RB Offset 0 – High Channel)



Plot 7-158. Conducted Spurious Plot (QPSK – RB Size 1, RB Offset 0 – High Channel)

FCC ID: A3LSGHI317	PETEST:	FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Page 115 of 117
0Y1208291264.A3L	Aug. 20 - Sept. 7, 2012	Portable Handset		Fage 115 01 117





Plot 7-159. Upper Band Edge Plot (QPSK - RB Size 1, Offset 99)



Plot 7-160. Upper Band Edge Plot (QPSK - RB Size 100)

FCC ID: A3LSGHI317	PCTEST	FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION)	Reviewed by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 116 of 117
0Y1208291264.A3L	Aug. 20 - Sept. 7, 2012	Portable Handset	Fage 110 01 117



## CONCLUSION 8.0

The data collected relate only to the item(s) tested and show that the Samsung Portable Handset FCC ID: A3LSGHI317 complies with all the requirements of Parts 2, 22, 24 and 27 of the FCC rules for LTE operation only.

FCC ID: A3LSGHI317	ENSINE LABBATERS, INC.	FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Page 117 of 117
0Y1208291264.A3L	Aug. 20 - Sept. 7, 2012	Portable Handset		rage 117 01 117