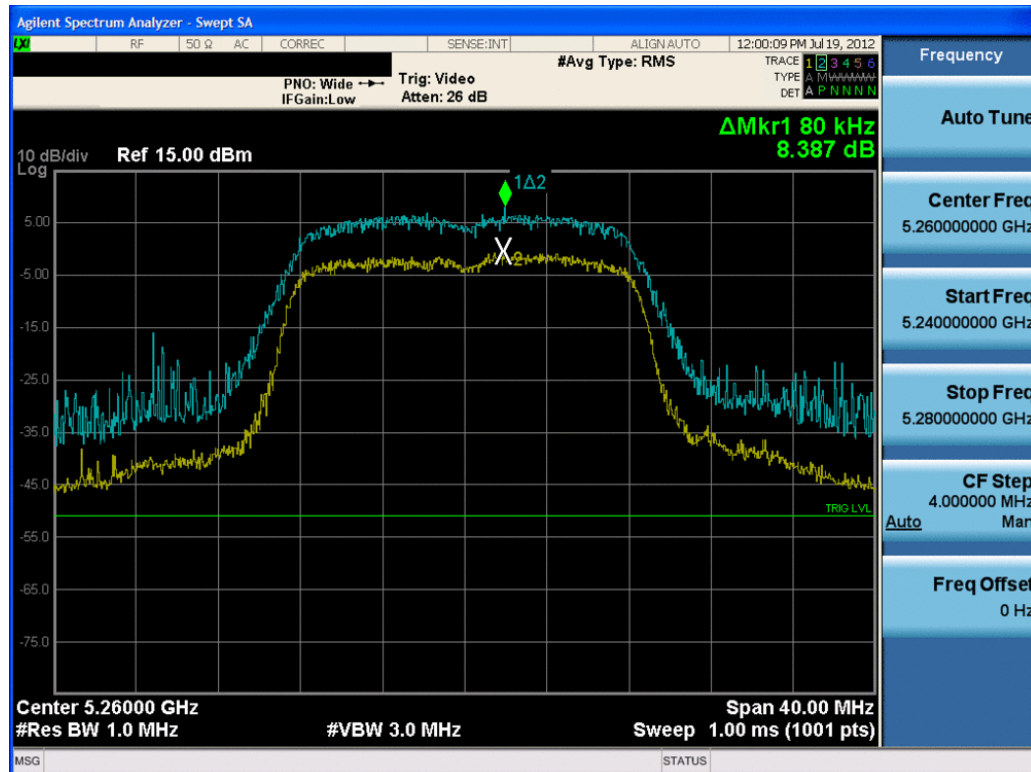
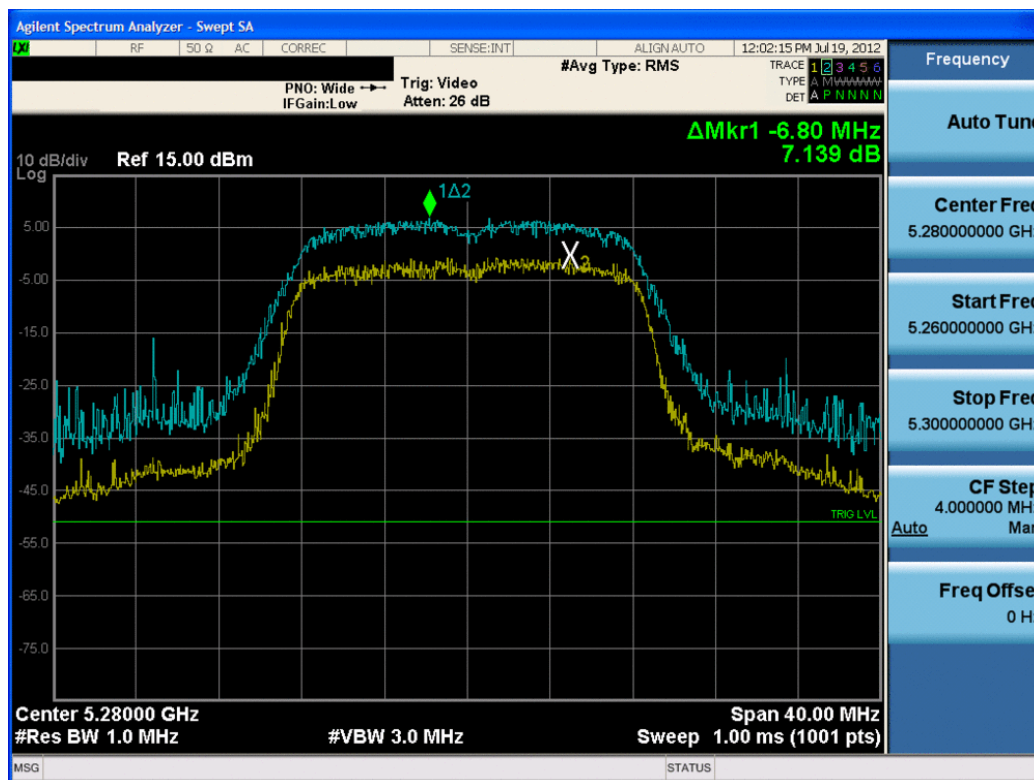


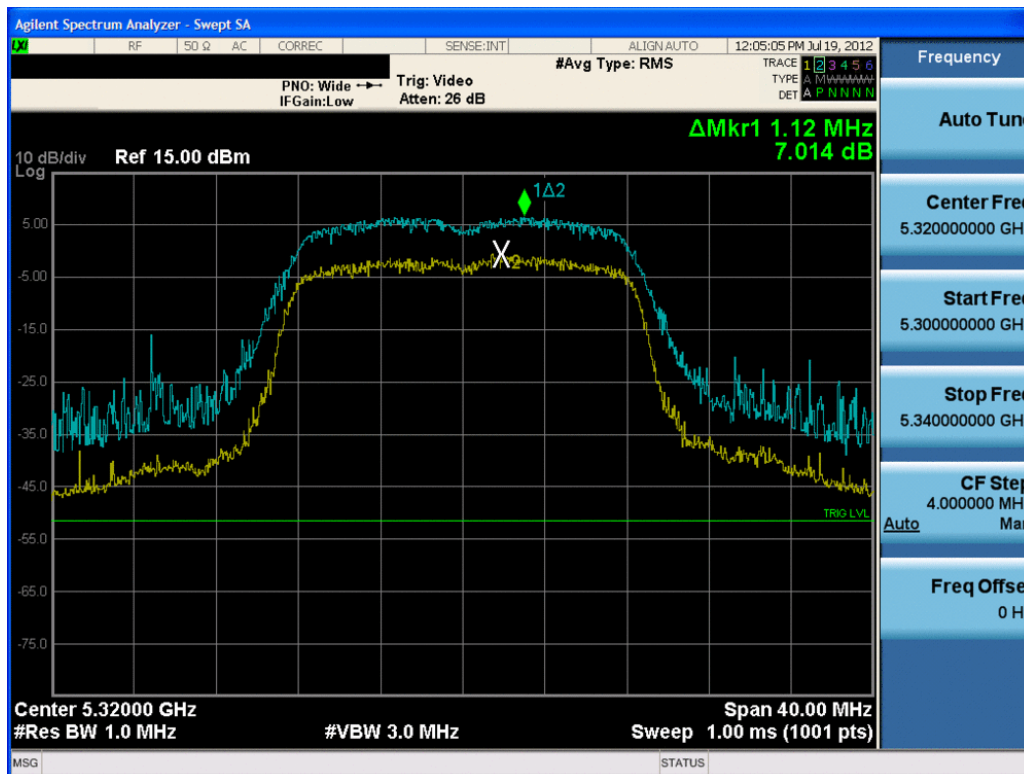


Plot 6-109. Peak Excursion Ratio Plot (802.11a (UNII Band 2) – Ch. 52) – Chain A

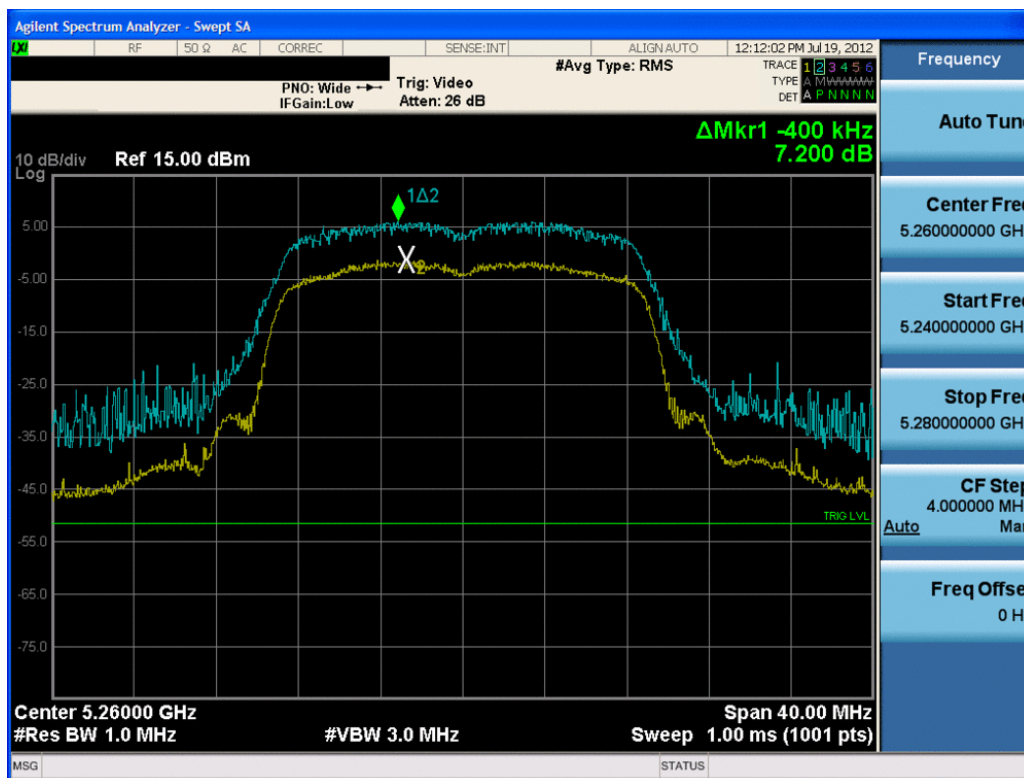


Plot 6-110. Peak Excursion Ratio Plot (802.11a (UNII Band 2) – Ch. 56) – Chain A

FCC ID: A3LGRP8110	 FCC Pt. 15.407 802.11a/n UNII MEASUREMENT REPORT (CERTIFICATION) 		Reviewed by: Quality Manager
Test Report S/N: 0Y1207130946.A3L	Test Dates: 07/16/12 - 07/23/12	EUT Type: Portable Tablet	Page 81 of 163

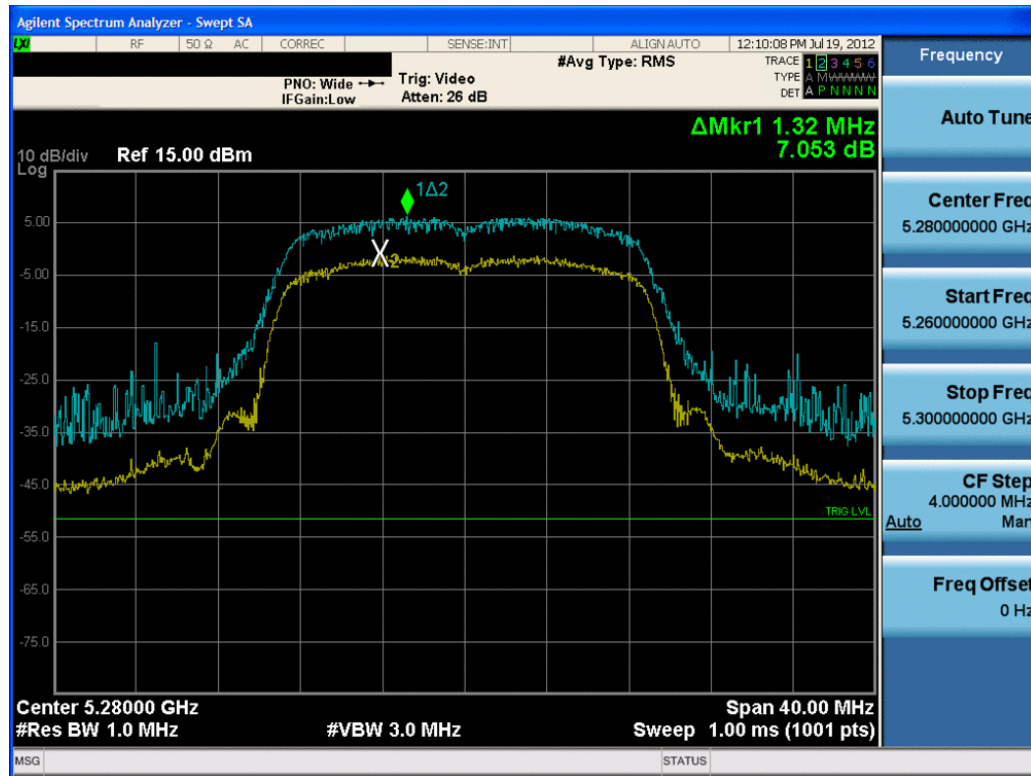


Plot 6-111. Peak Excursion Ratio Plot (802.11a (UNII Band 2) – Ch. 64) – Chain A

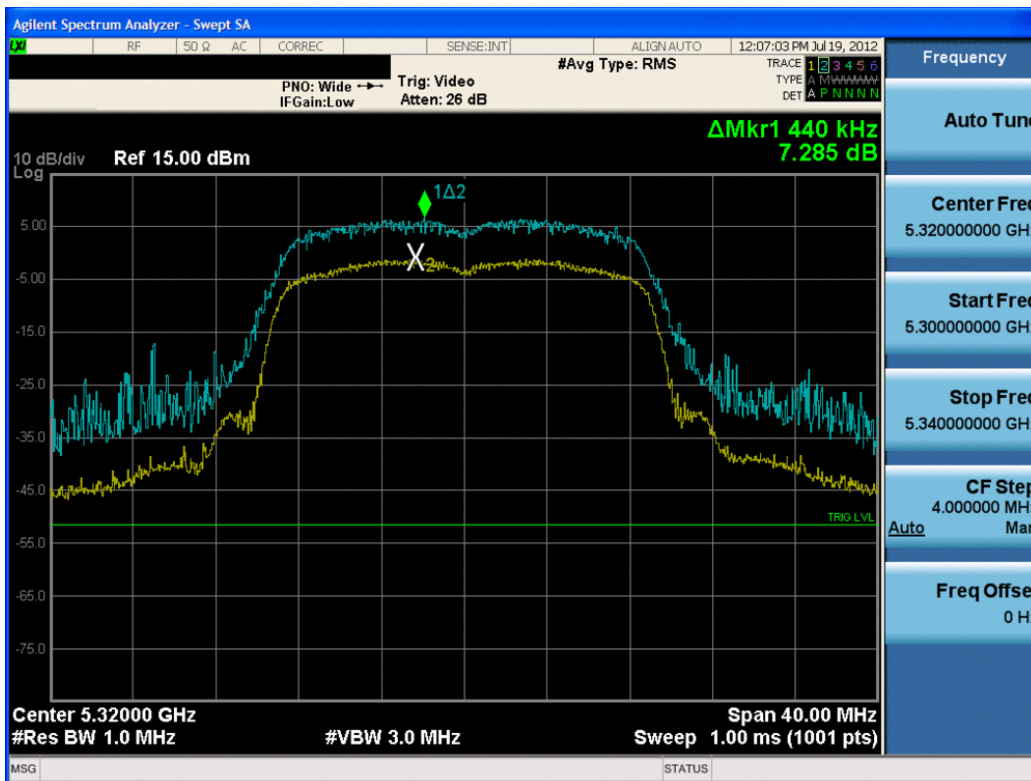


Plot 6-112. Peak Excursion Ratio Plot (20MHz BW 802.11n (UNII Band 2) – Ch. 52) – Chain A

FCC ID: A3LGP8110	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n UNII MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1207130946.A3L	Test Dates: 07/16/12 - 07/23/12	EUT Type: Portable Tablet		Page 82 of 163

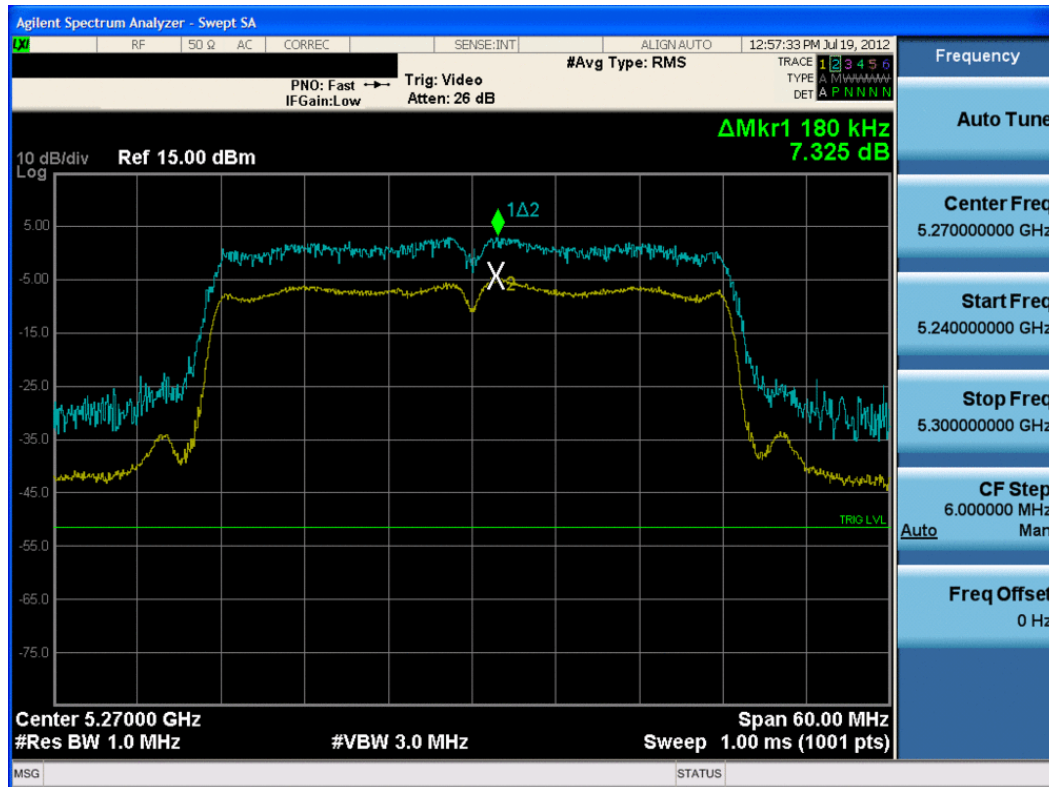


Plot 6-113. Peak Excursion Ratio Plot (20MHz BW 802.11n (UNII Band 2) – Ch. 56) – Chain A

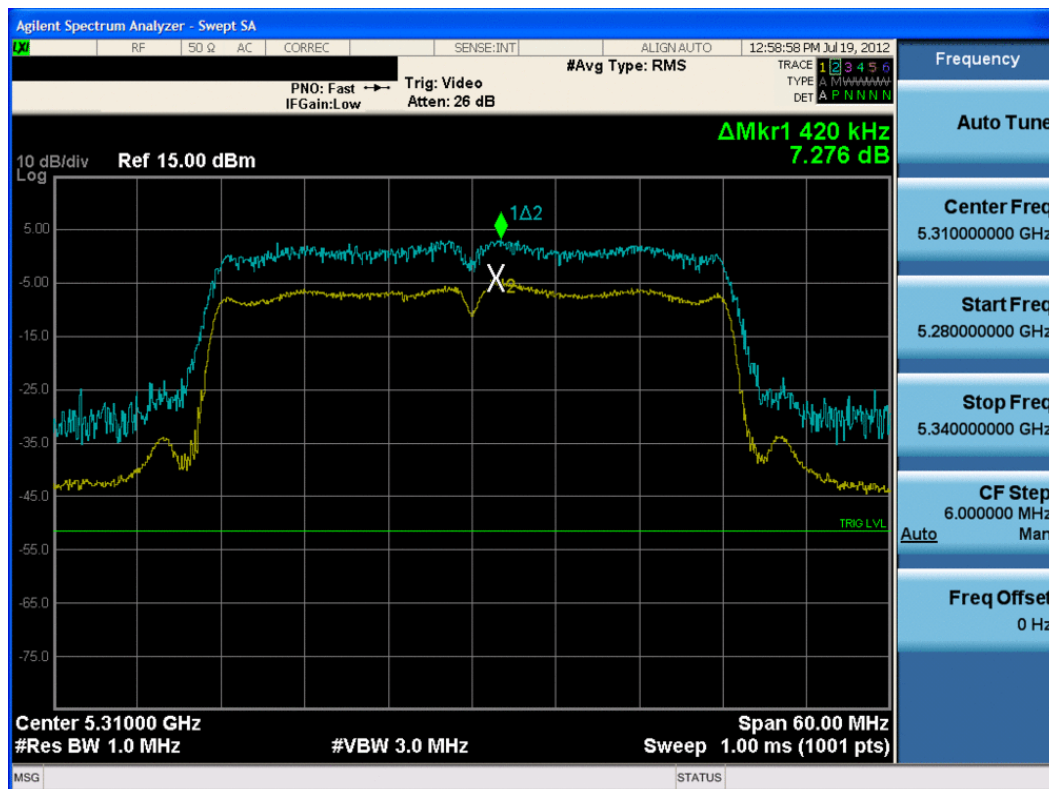


Plot 6-114. Peak Excursion Ratio Plot (20MHz BW 802.11n (UNII Band 2) – Ch. 64) – Chain A

FCC ID: A3LGTP8110	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n UNII MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1207130946.A3L	Test Dates: 07/16/12 - 07/23/12	EUT Type: Portable Tablet		Page 83 of 163

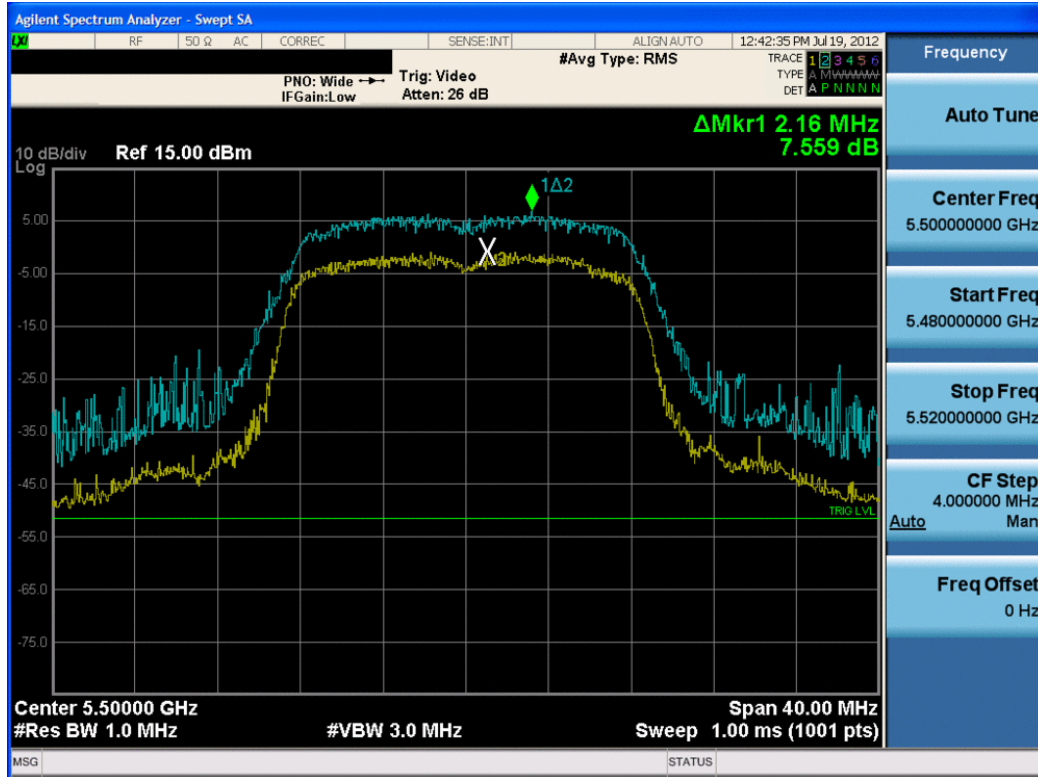


Plot 6-115. Peak Excursion Ratio Plot (40MHz BW 802.11n (UNII Band 2) – Ch. 54) – Chain A

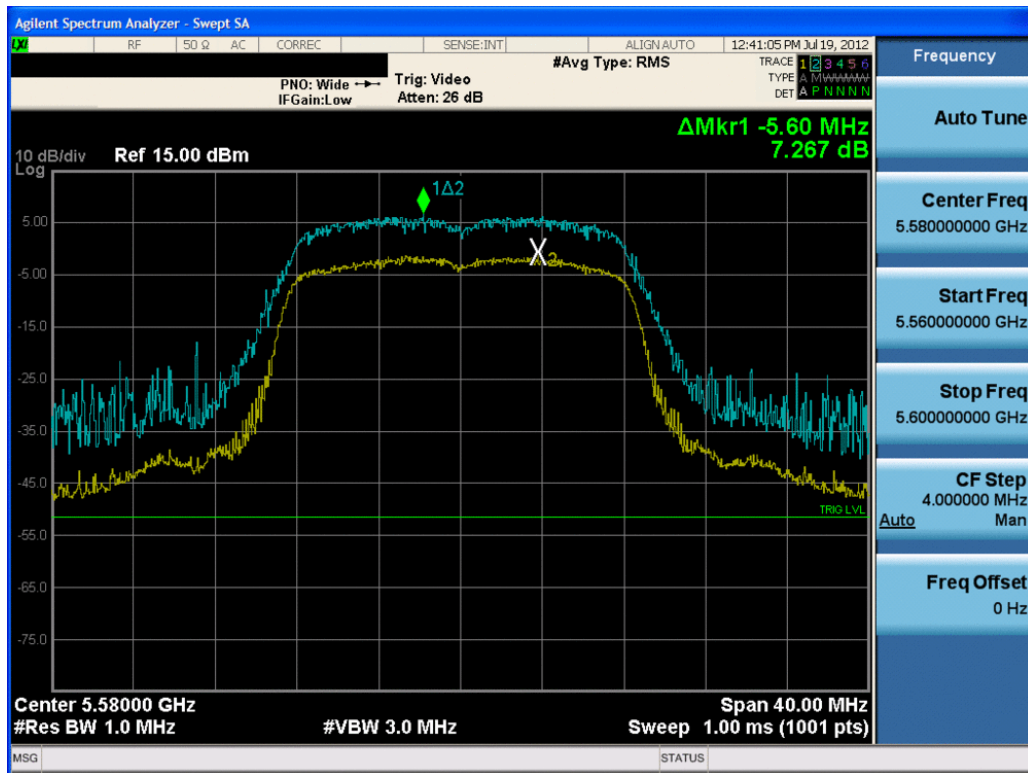


Plot 6-116. Peak Excursion Ratio Plot (40MHz BW 802.11n (UNII Band 2) – Ch. 62) – Chain A

FCC ID: A3LGRP8110	 FCC Pt. 15.407 802.11a/n UNII MEASUREMENT REPORT (CERTIFICATION) 		Reviewed by: Quality Manager
Test Report S/N: 0Y1207130946.A3L	Test Dates: 07/16/12 - 07/23/12	EUT Type: Portable Tablet	Page 84 of 163

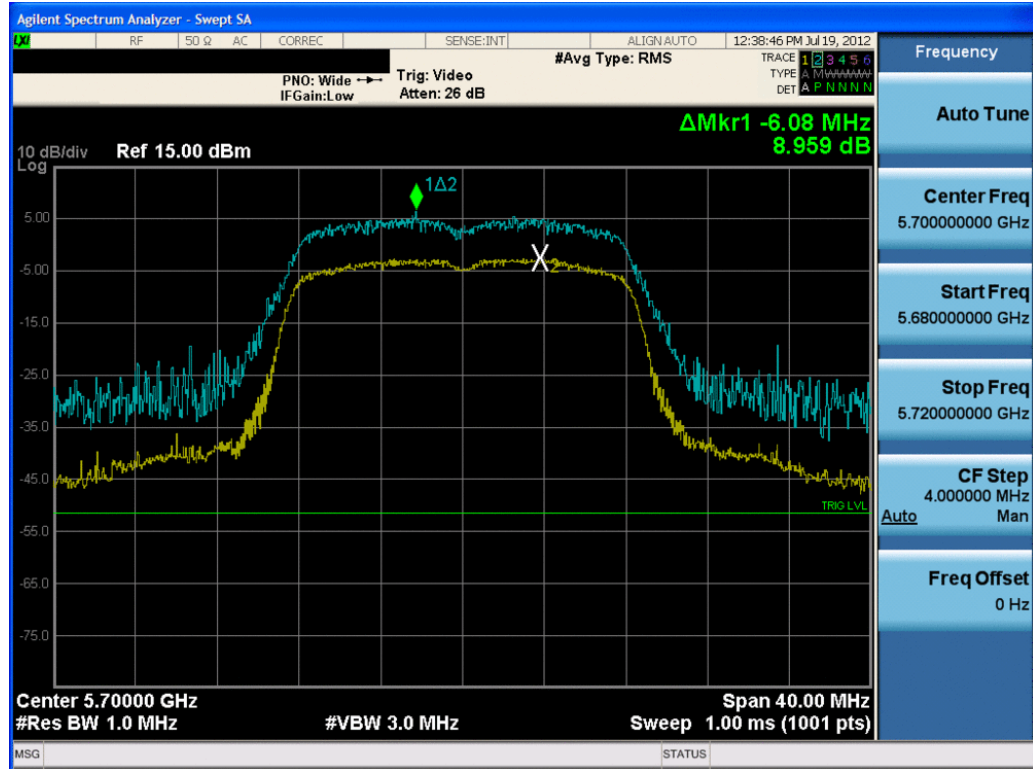


Plot 6-117. Peak Excursion Ratio Plot (802.11a (UNII Band 3) – Ch. 100) – Chain A

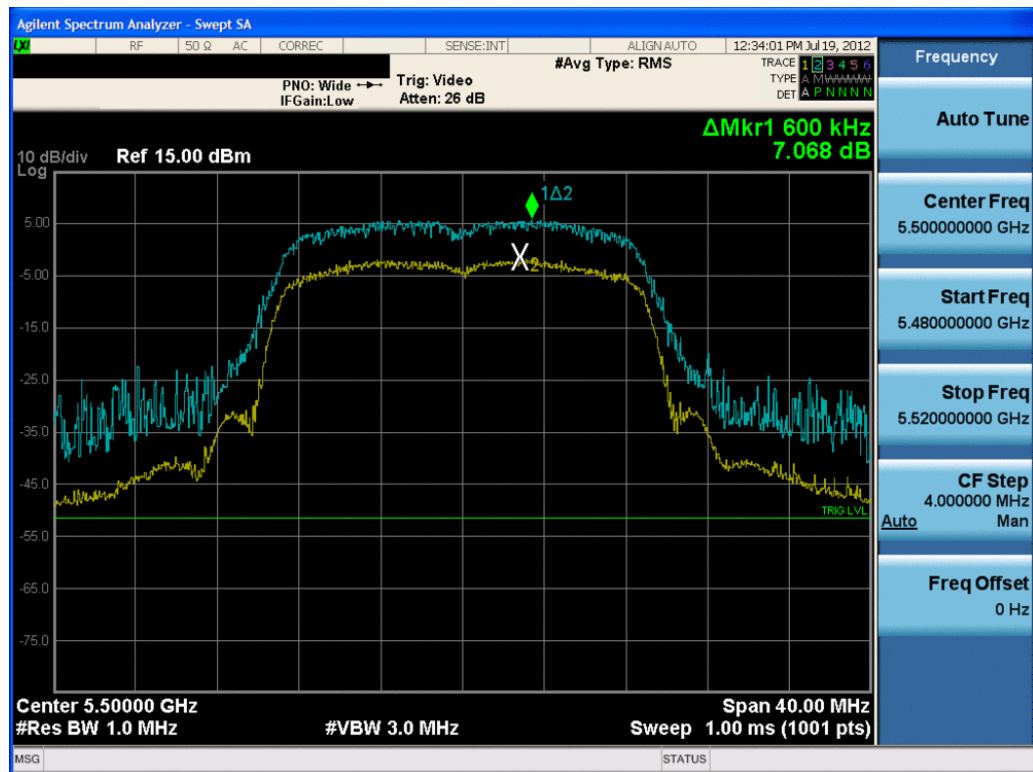


Plot 6-118. Peak Excursion Ratio Plot (802.11a (UNII Band 3) – Ch. 116) – Chain A

FCC ID: A3LGTP8110	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n UNII MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1207130946.A3L	Test Dates: 07/16/12 - 07/23/12	EUT Type: Portable Tablet		Page 85 of 163

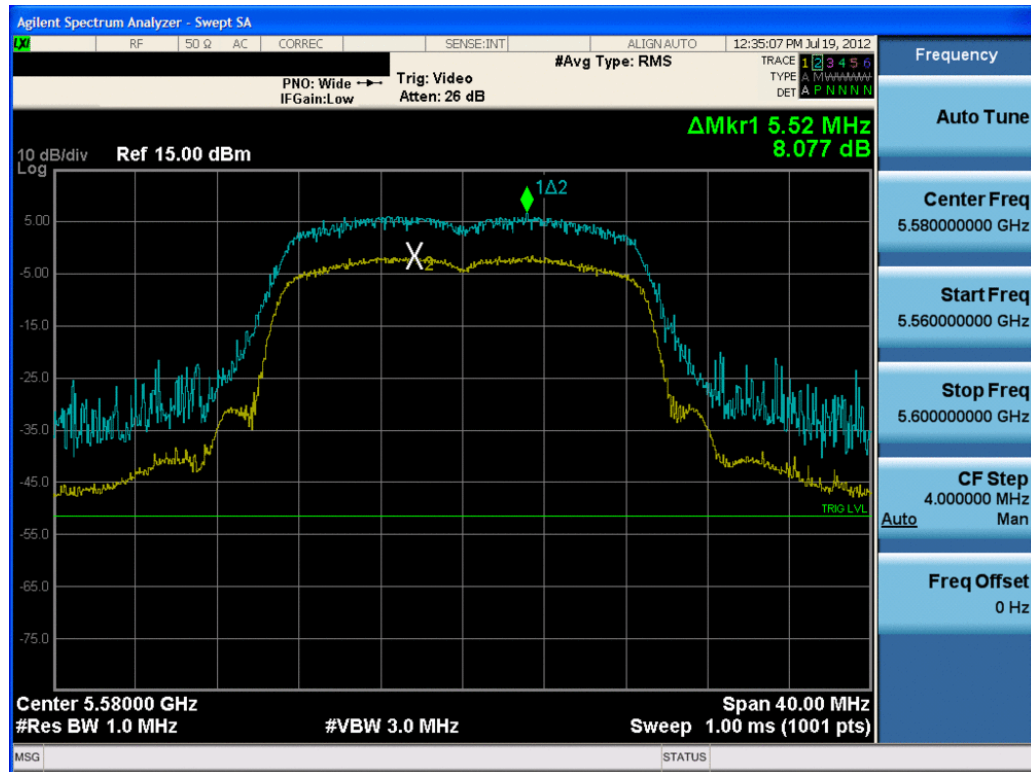


Plot 6-119. Peak Excursion Ratio Plot (802.11a (UNII Band 3) – Ch. 140) – Chain A

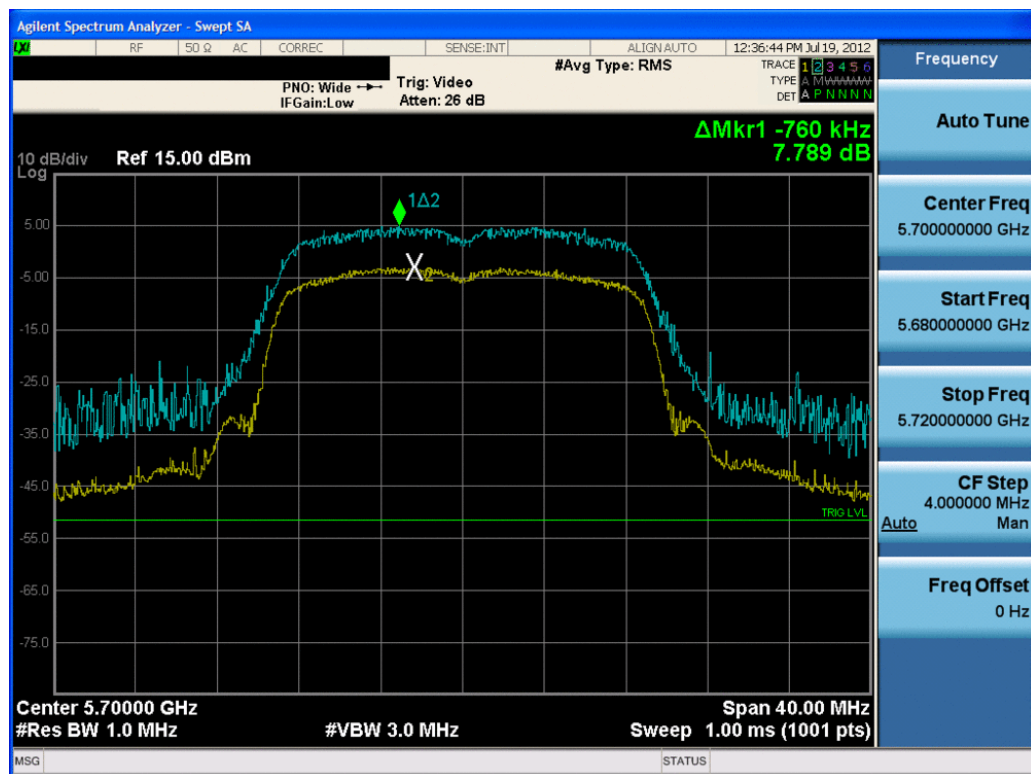


Plot 6-120. Peak Excursion Ratio Plot (20MHz BW 802.11n (UNII Band 3) – Ch. 100 – Chain A)

FCC ID: A3LGP8110	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n UNII MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1207130946.A3L	Test Dates: 07/16/12 - 07/23/12	EUT Type: Portable Tablet		Page 86 of 163

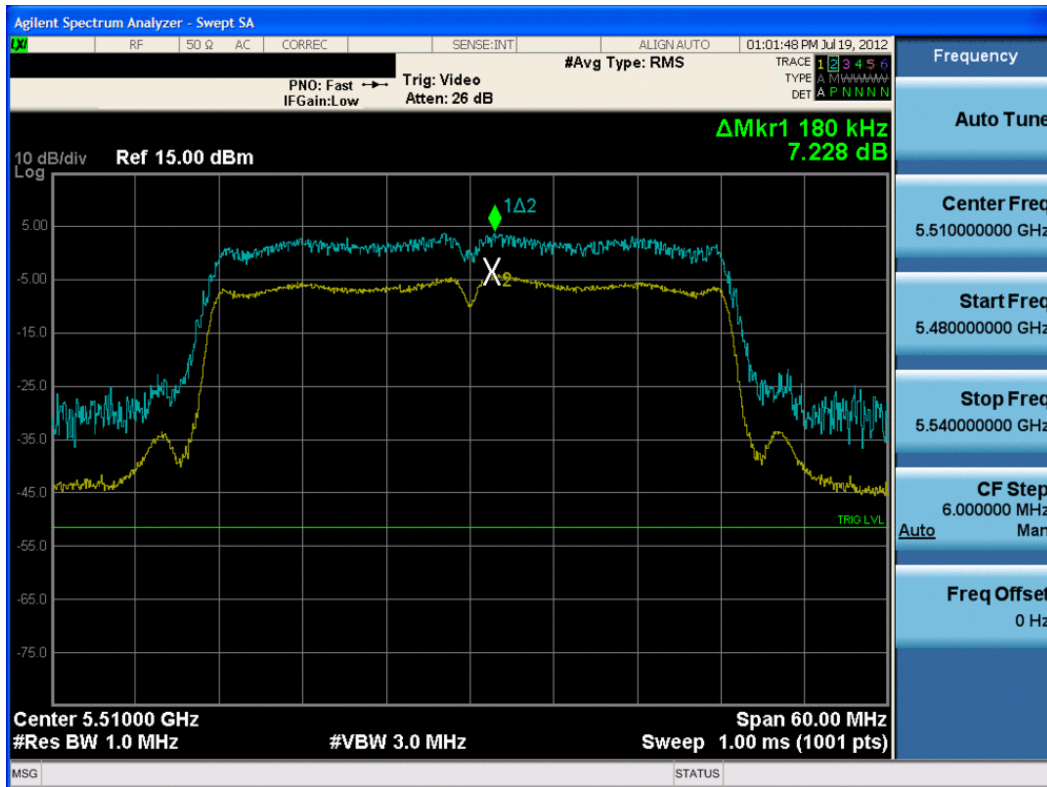


Plot 6-121. Peak Excursion Ratio Plot (20MHz BW 802.11n (UNII Band 3) – Ch. 116) – Chain A

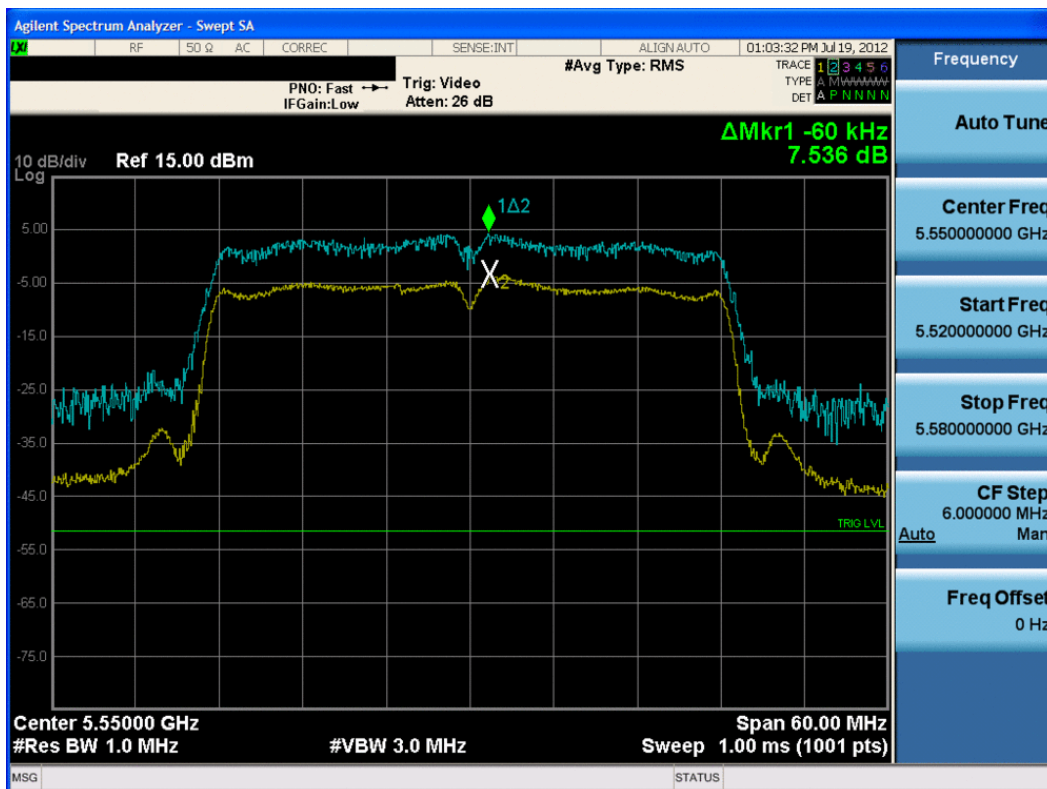


Plot 6-122. Peak Excursion Ratio Plot (20MHz BW 802.11n (UNII Band 3) – Ch. 140) – Chain A

FCC ID: A3LGP8110	 FCC Pt. 15.407 802.11a/n UNII MEASUREMENT REPORT (CERTIFICATION) 		Reviewed by: Quality Manager
Test Report S/N: 0Y1207130946.A3L	Test Dates: 07/16/12 - 07/23/12	EUT Type: Portable Tablet	Page 87 of 163

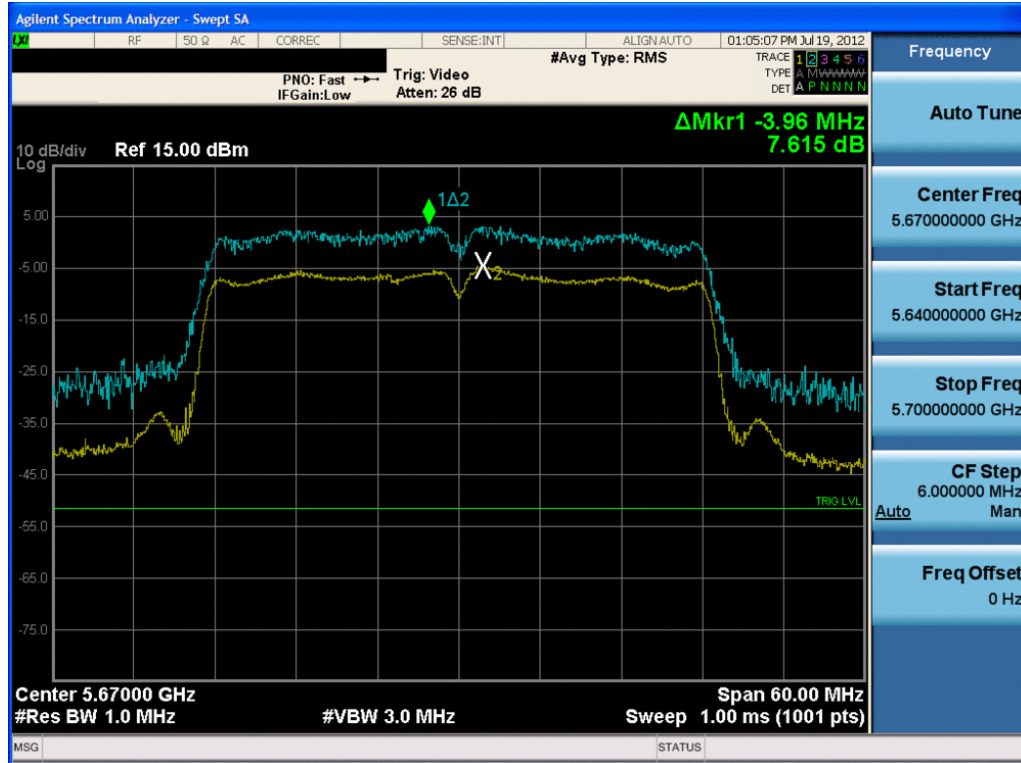


Plot 6-123. Peak Excursion Ratio Plot (40MHz BW 802.11n (UNII Band 3) – Ch. 102) – Chain A

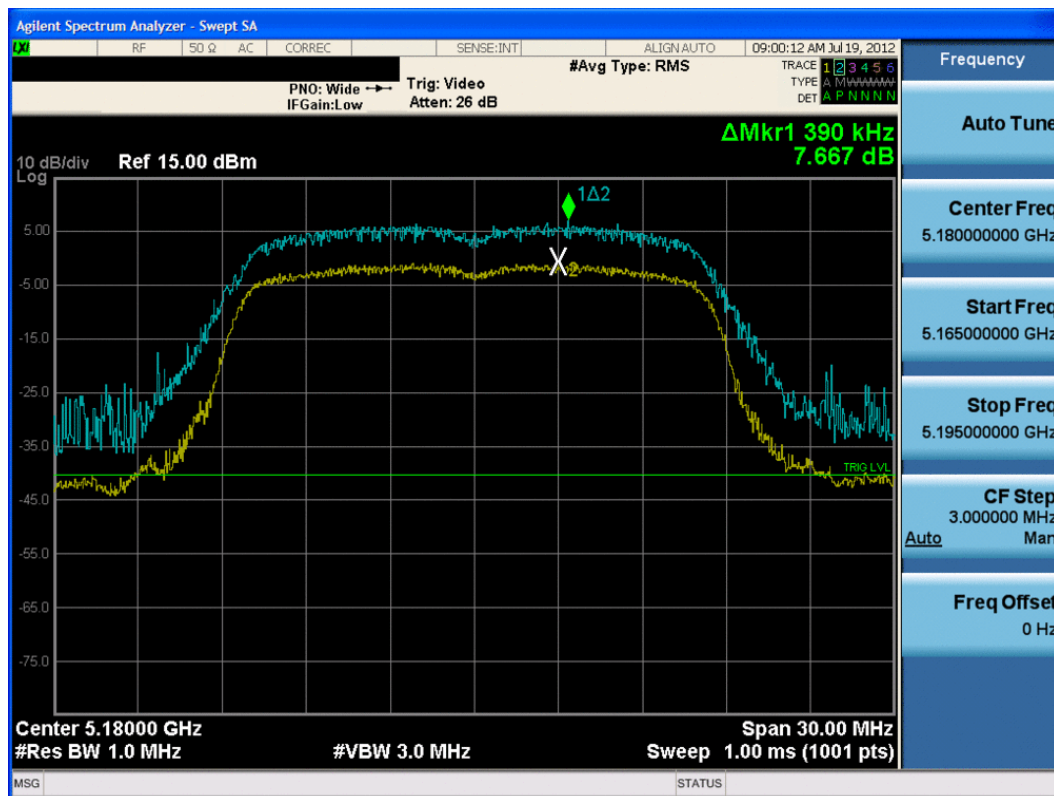


Plot 6-124. Peak Excursion Ratio Plot (40MHz BW 802.11n (UNII Band 3) – Ch. 110) – Chain A

FCC ID: A3LGP8110		 FCC Pt. 15.407 802.11a/n UNII MEASUREMENT REPORT (CERTIFICATION) 		Reviewed by: Quality Manager
Test Report S/N: 0Y1207130946.A3L	Test Dates: 07/16/12 - 07/23/12	EUT Type: Portable Tablet		Page 88 of 163

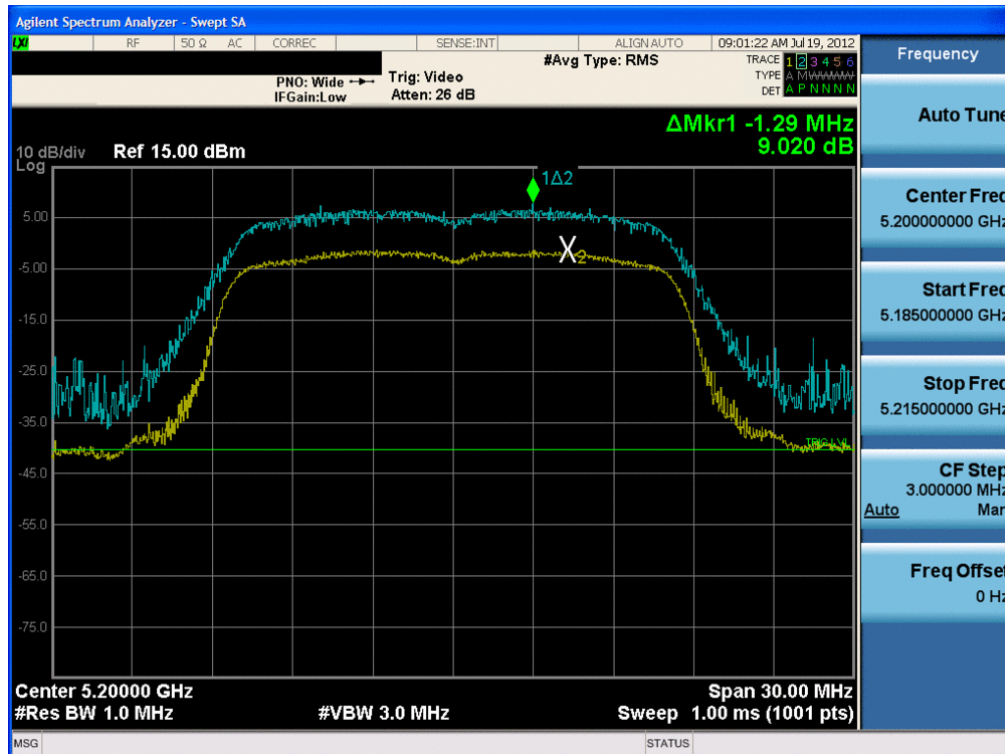


Plot 6-125. Peak Excursion Ratio Plot (40MHz BW 802.11n (UNII Band 3) – Ch. 134) – Chain A

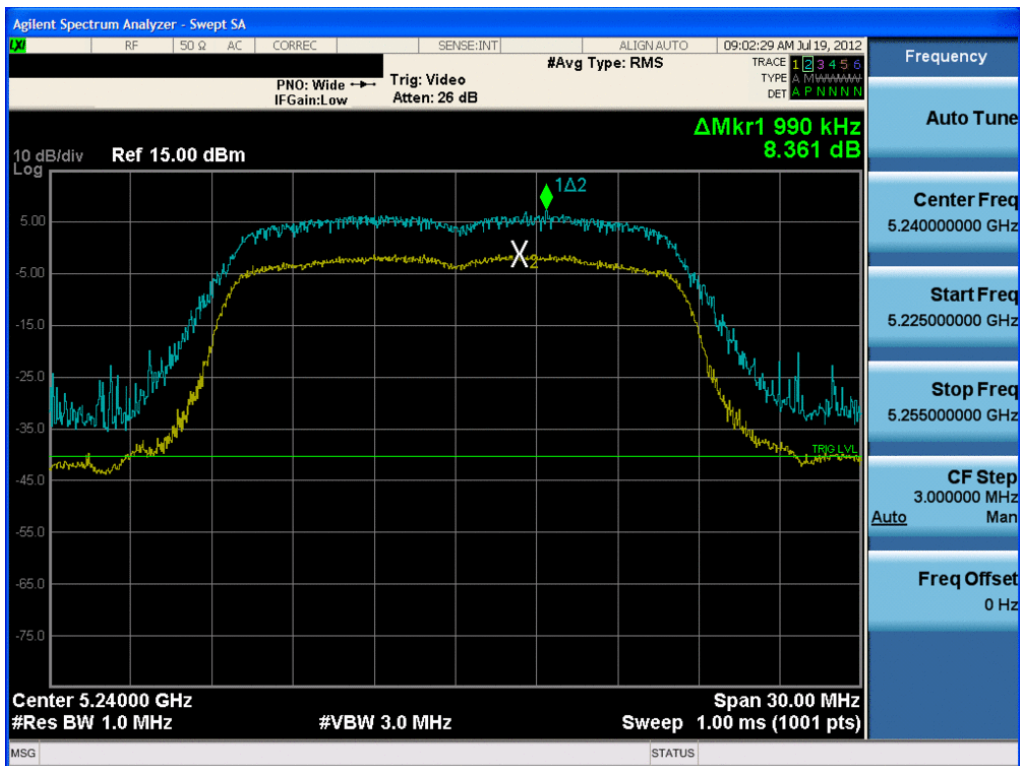


Plot 6-126. Peak Excursion Ratio Plot (802.11a (UNII Band 1) – Ch. 36) – Chain B

FCC ID: A3LGP8110	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n UNII MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1207130946.A3L	Test Dates: 07/16/12 - 07/23/12	EUT Type: Portable Tablet		Page 89 of 163

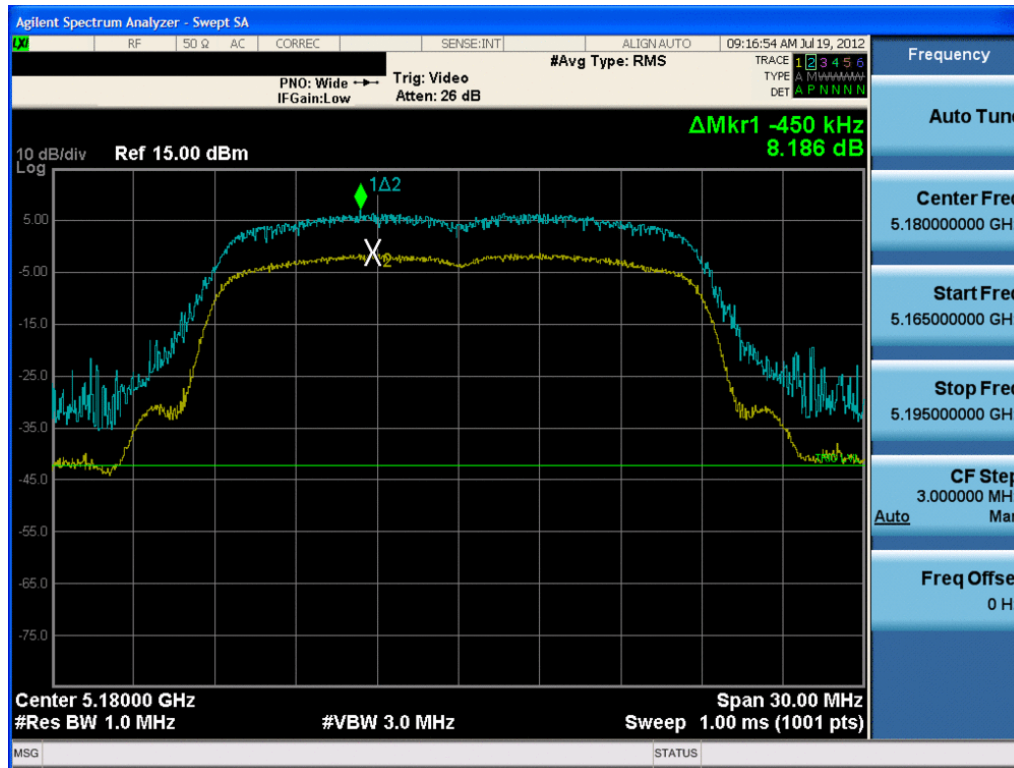


Plot 6-127. Peak Excursion Ratio Plot (802.11a (UNII Band 1) - Ch. 40) - Chain B

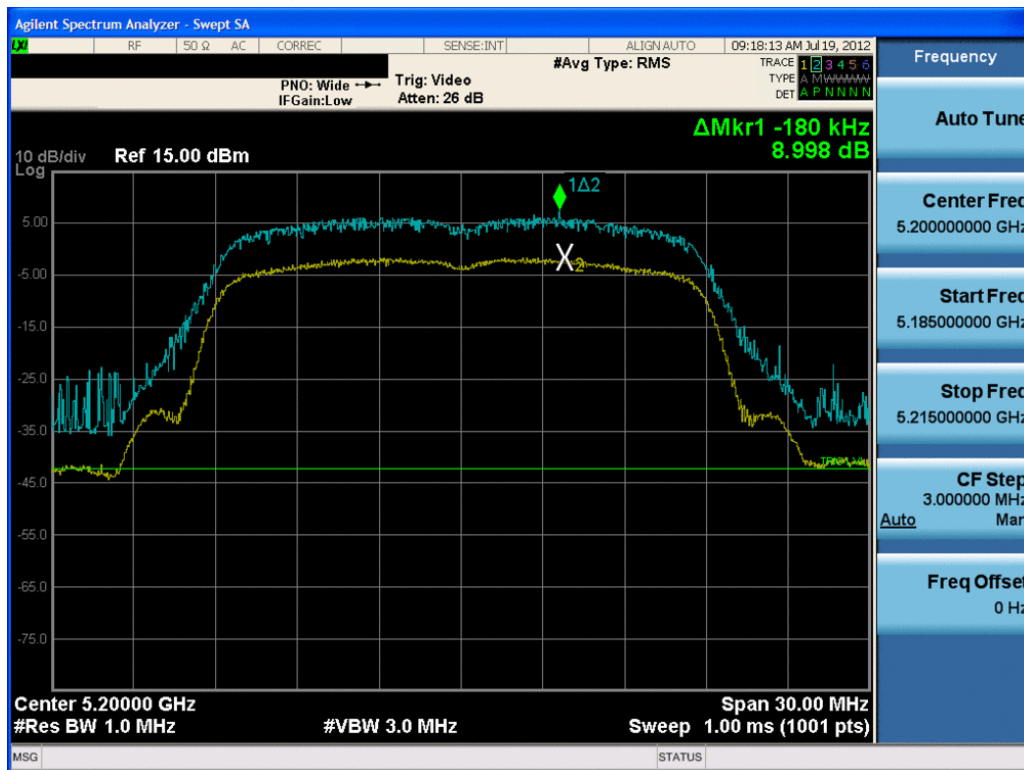


Plot 6-128. Peak Excursion Ratio Plot (802.11a (UNII Band 1) - Ch. 48) - Chain B

FCC ID: A3LGTP8110	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n UNII MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1207130946.A3L	Test Dates: 07/16/12 - 07/23/12	EUT Type: Portable Tablet		Page 90 of 163

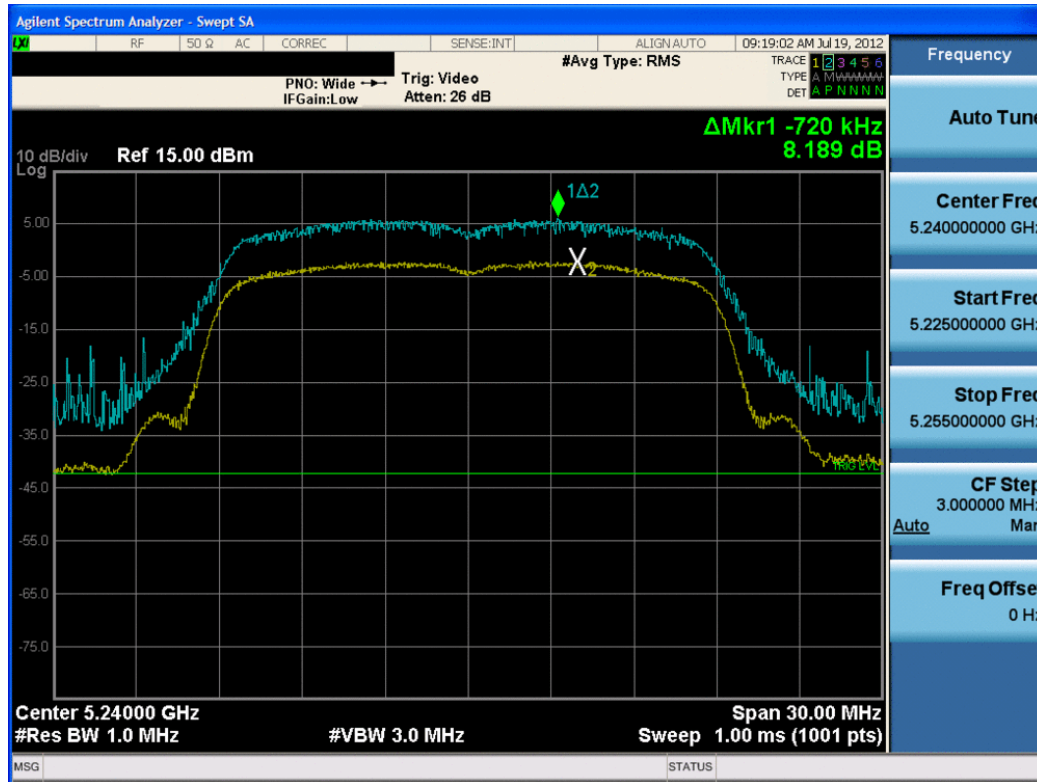


Plot 6-129. Peak Excursion Ratio Plot (20MHz BW 802.11n (UNII Band 1) – Ch. 36) – Chain B



Plot 6-130. Peak Excursion Ratio Plot (20MHz BW 802.11n (UNII Band 1) – Ch. 40) – Chain B

FCC ID: A3LGTP8110	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n UNII MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1207130946.A3L	Test Dates: 07/16/12 - 07/23/12	EUT Type: Portable Tablet		Page 91 of 163

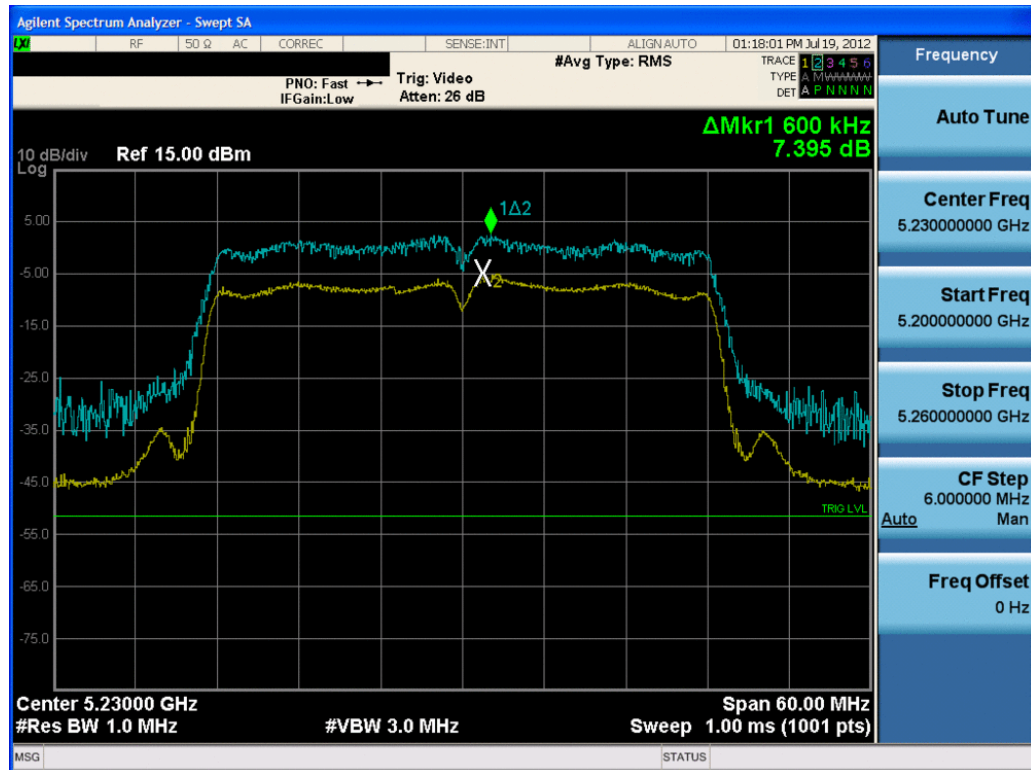


Plot 6-131. Peak Excursion Ratio Plot (20MHz BW 802.11n (UNII Band 1) – Ch. 48) – Chain B

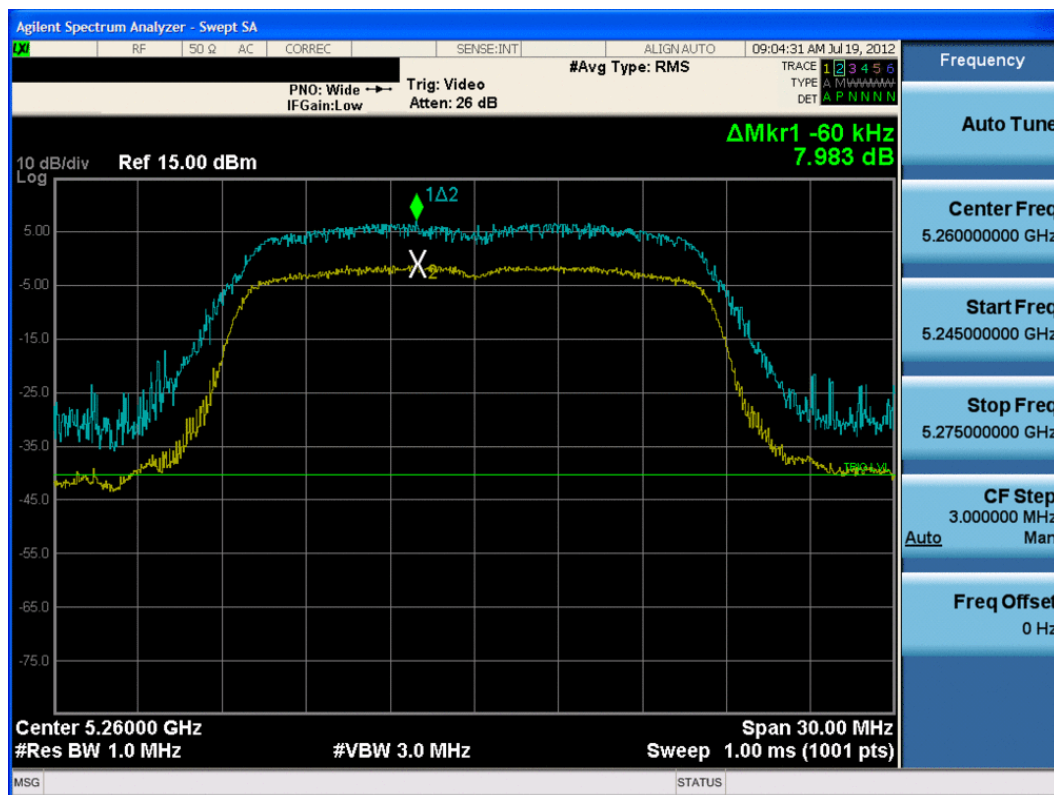


Plot 6-132. Peak Excursion Ratio Plot (40MHz BW 802.11n (UNII Band 1) – Ch. 38) – Chain B

FCC ID: A3LGTP8110	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n UNII MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1207130946.A3L	Test Dates: 07/16/12 - 07/23/12	EUT Type: Portable Tablet		Page 92 of 163

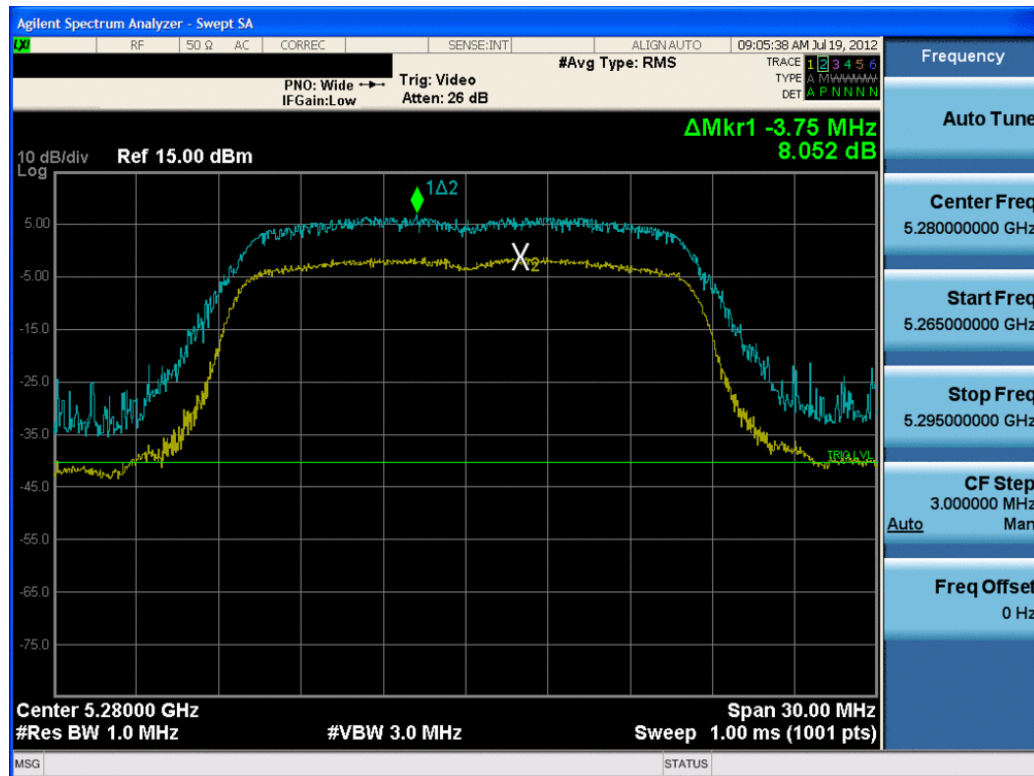


Plot 6-133. Peak Excursion Ratio Plot (40MHz BW 802.11n (UNII Band 1) – Ch. 46) – Chain B

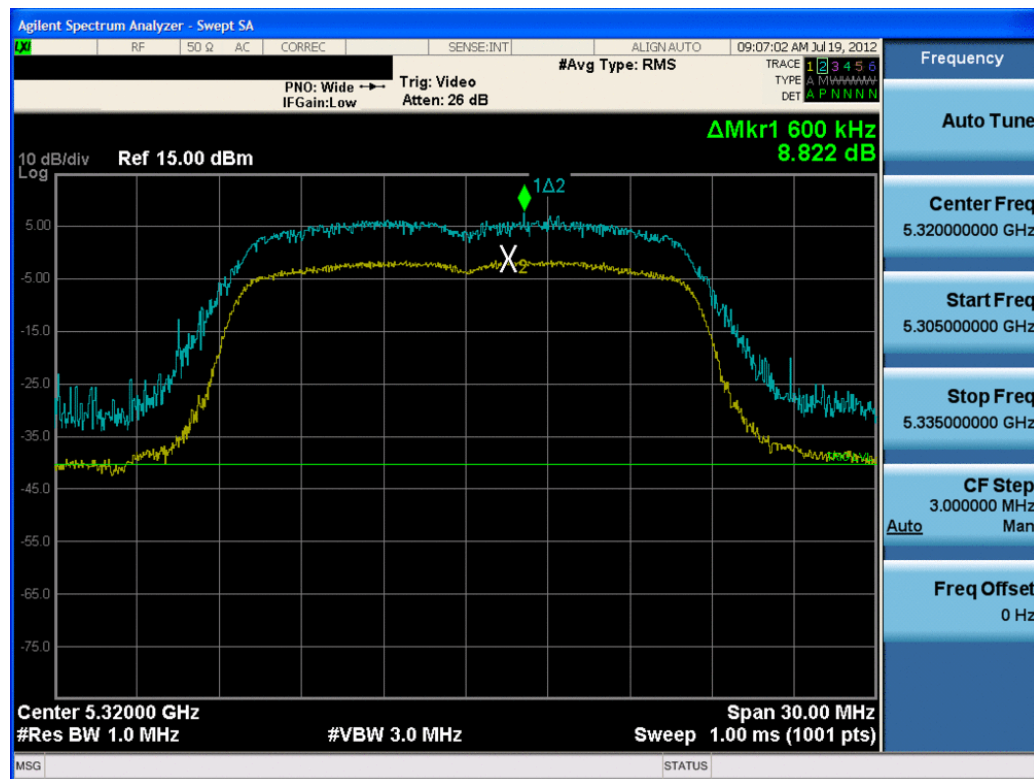


Plot 6-134. Peak Excursion Ratio Plot (802.11a (UNII Band 2) – Ch. 52) – Chain B

FCC ID: A3LGRP8110	 FCC Pt. 15.407 802.11a/n UNII MEASUREMENT REPORT (CERTIFICATION) 		Reviewed by: Quality Manager
Test Report S/N: 0Y1207130946.A3L	Test Dates: 07/16/12 - 07/23/12	EUT Type: Portable Tablet	Page 93 of 163

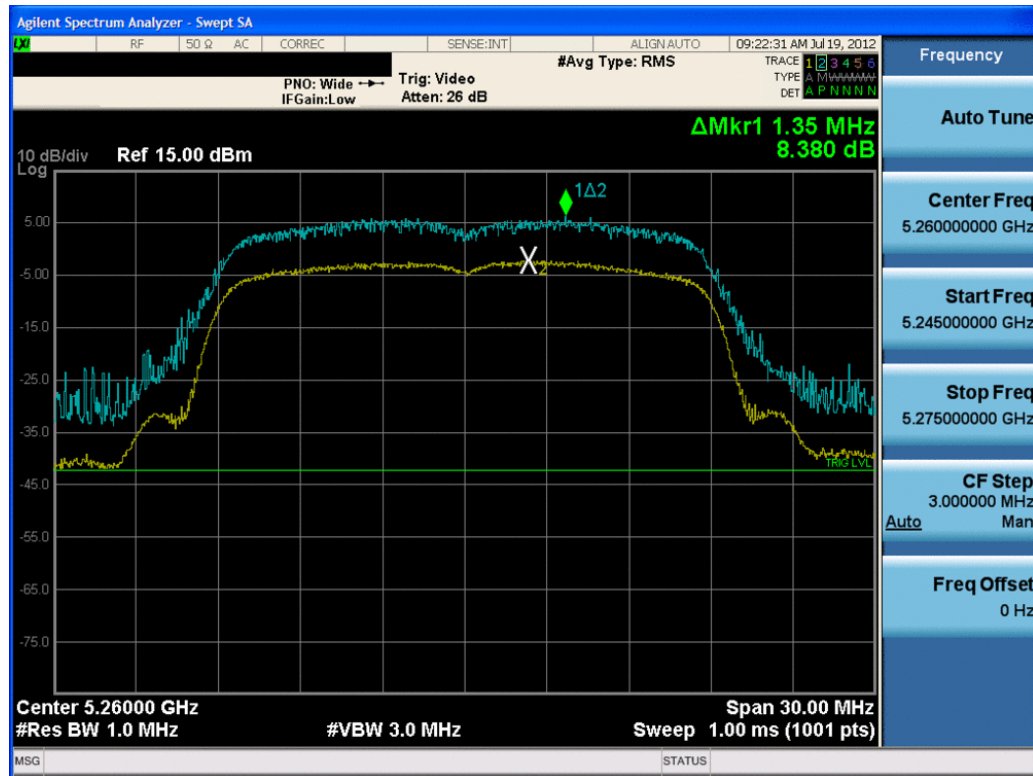


Plot 6-135. Peak Excursion Ratio Plot (802.11a (UNII Band 2) – Ch. 56) – Chain B

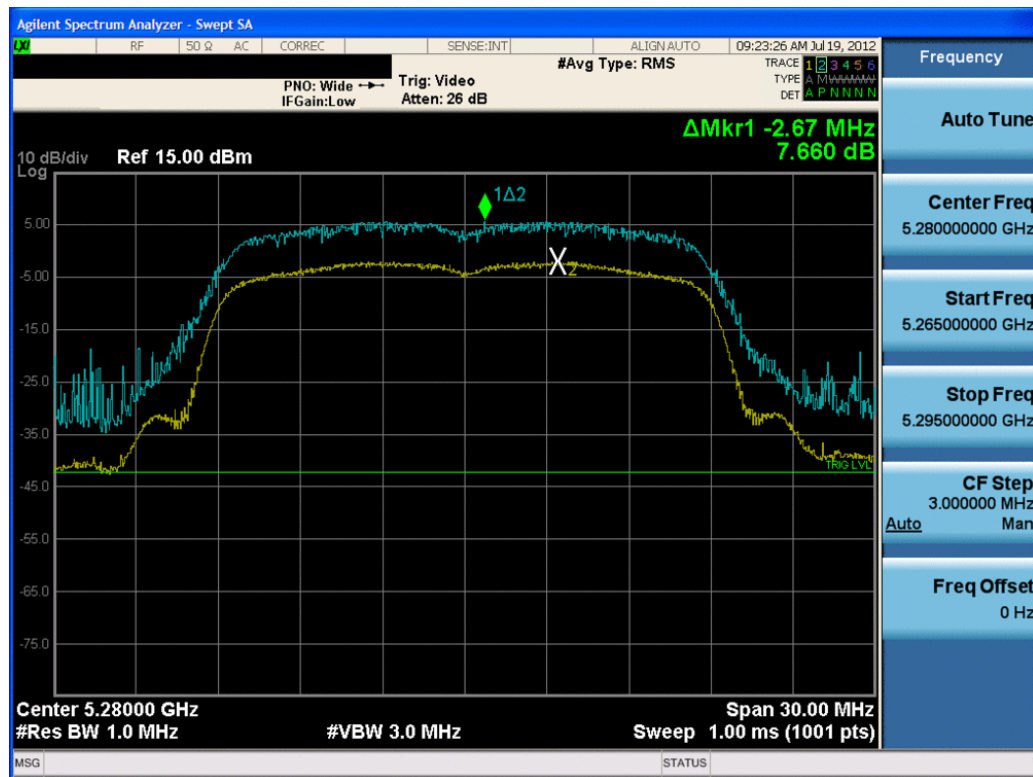


Plot 6-136. Peak Excursion Ratio Plot (802.11a (UNII Band 2) – Ch. 64) – Chain B

FCC ID: A3LGP8110	 FCC Pt. 15.407 802.11a/n UNII MEASUREMENT REPORT (CERTIFICATION) 		Reviewed by: Quality Manager
Test Report S/N: 0Y1207130946.A3L	Test Dates: 07/16/12 - 07/23/12	EUT Type: Portable Tablet	Page 94 of 163

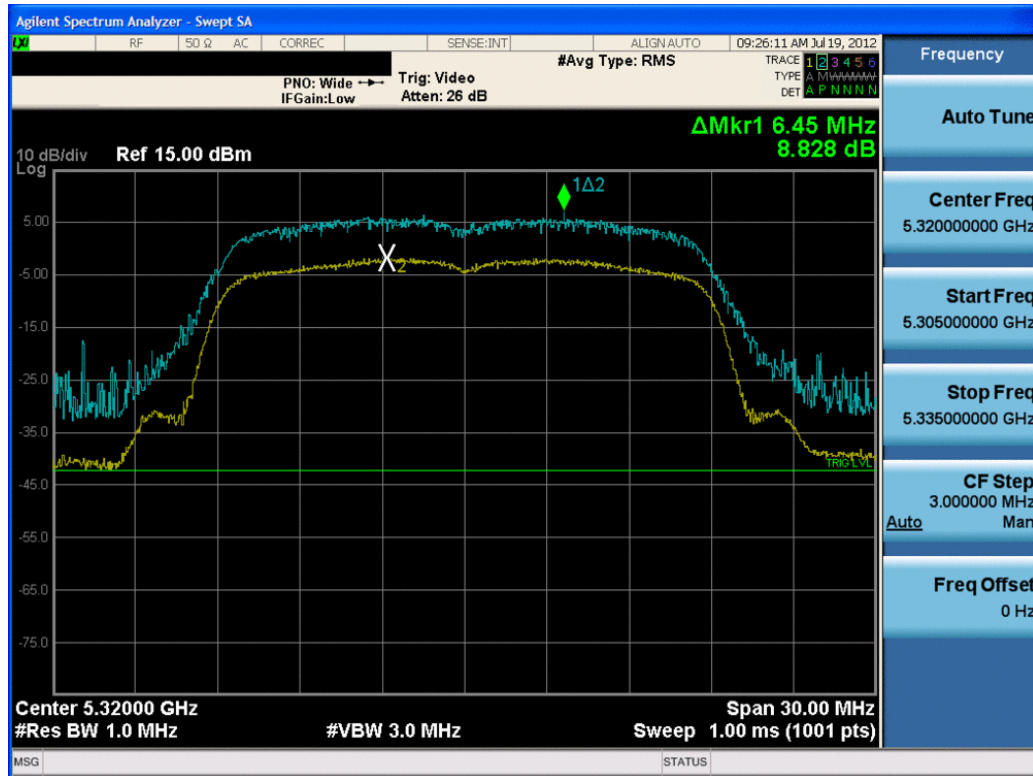


Plot 6-137. Peak Excursion Ratio Plot (20MHz BW 802.11n (UNII Band 2) – Ch. 52) – Chain B

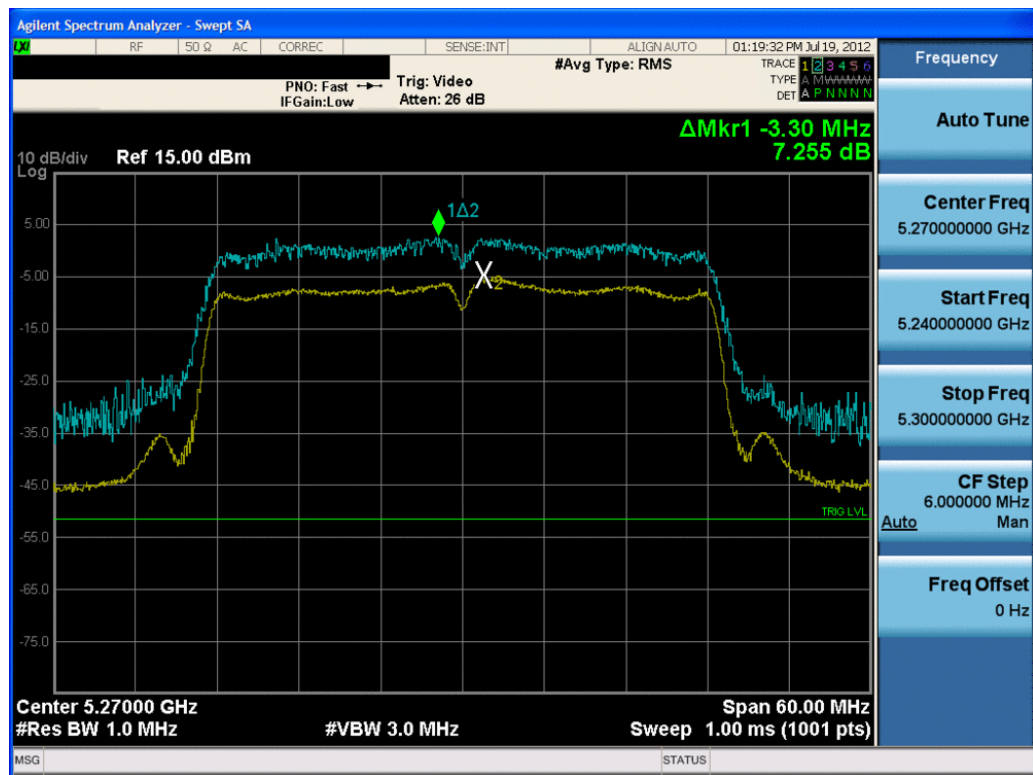


Plot 6-138. Peak Excursion Ratio Plot (20MHz BW 802.11a/n (UNII Band 2) – Ch. 56) – Chain B

FCC ID: A3LGTP8110	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n UNII MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1207130946.A3L	Test Dates: 07/16/12 - 07/23/12	EUT Type: Portable Tablet		Page 95 of 163

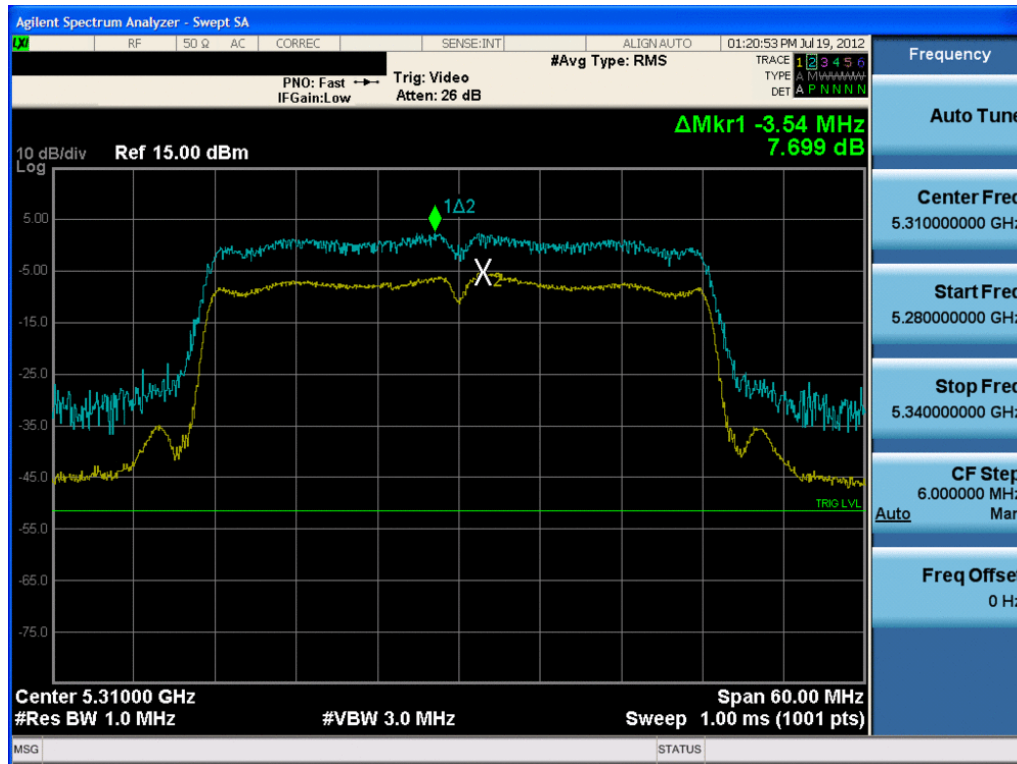


Plot 6-139. Peak Excursion Ratio Plot (20MHz BW 802.11n (UNII Band 2) – Ch. 64) – Chain B

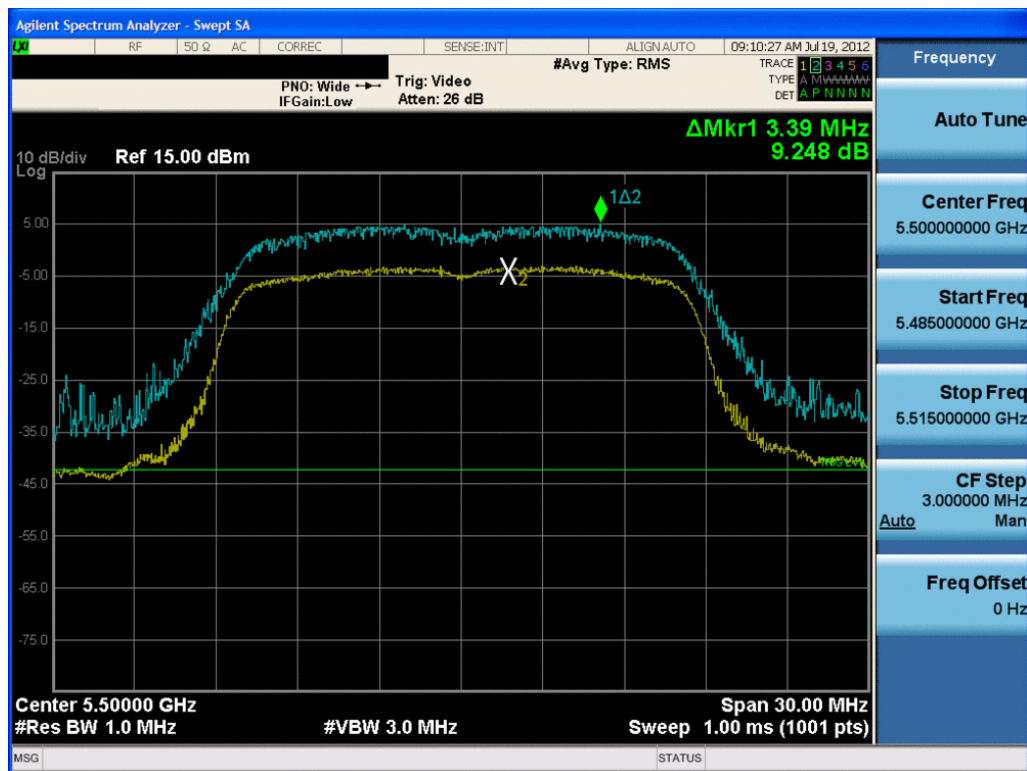


Plot 6-140. Peak Excursion Ratio Plot (40MHz BW 802.11n (UNII Band 2) – Ch. 54) – Chain B

FCC ID: A3LGP8110	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n UNII MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1207130946.A3L	Test Dates: 07/16/12 - 07/23/12	EUT Type: Portable Tablet		Page 96 of 163

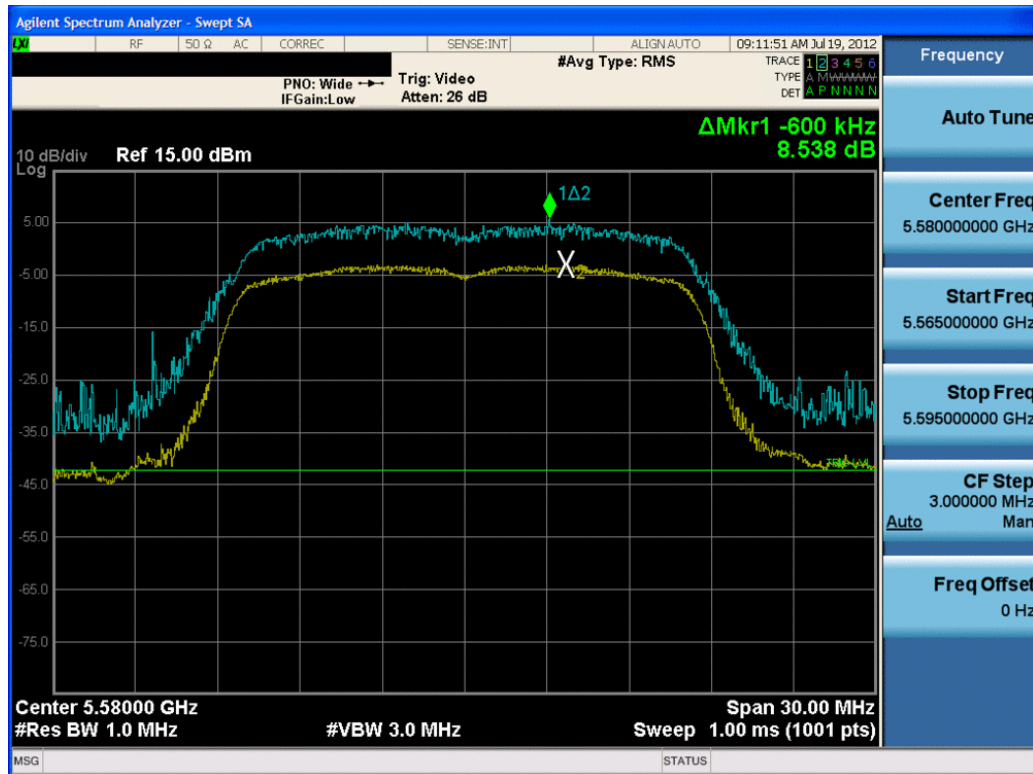


Plot 6-141. Peak Excursion Ratio Plot (40MHz BW 802.11n (UNII Band 2) – Ch. 62) – Chain B

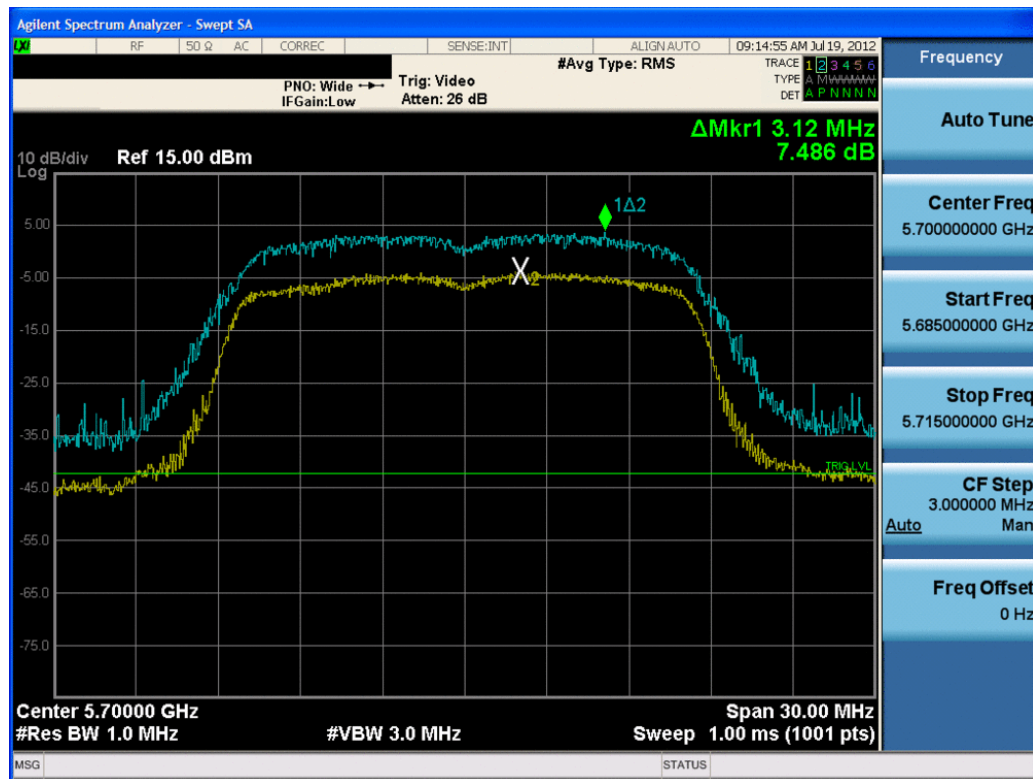


Plot 6-142. Peak Excursion Ratio Plot (802.11a (UNII Band 3) – Ch. 100) – Chain B

FCC ID: A3LGTP8110	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n UNII MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1207130946.A3L	Test Dates: 07/16/12 - 07/23/12	EUT Type: Portable Tablet		Page 97 of 163

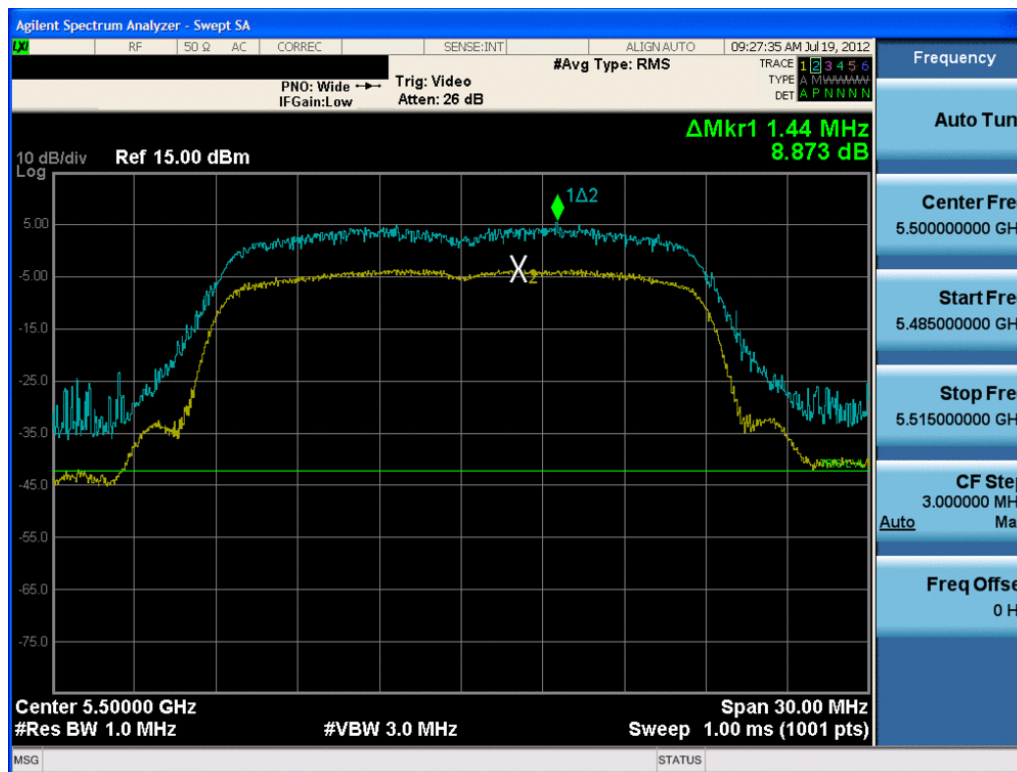


Plot 6-143. Peak Excursion Ratio Plot (802.11a (UNII Band 3) – Ch. 116) – Chain B

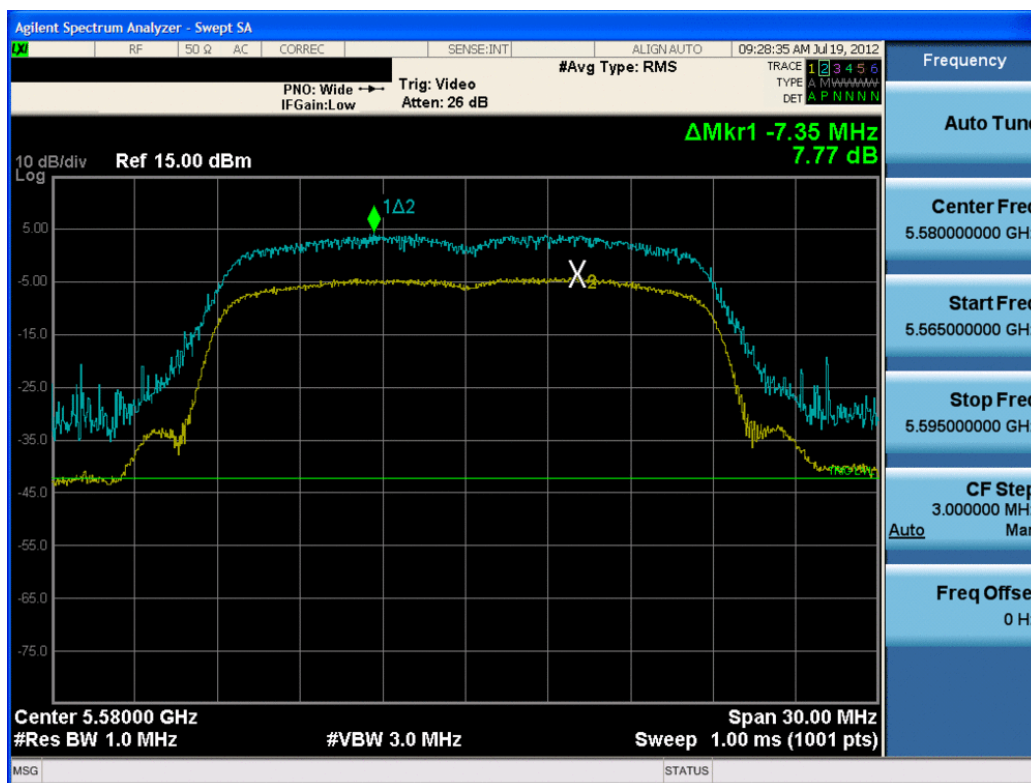


Plot 6-144. Peak Excursion Ratio Plot (802.11a (UNII Band 3) – Ch. 140) – Chain B

FCC ID: A3LGTP8110	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n UNII MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1207130946.A3L	Test Dates: 07/16/12 - 07/23/12	EUT Type: Portable Tablet		Page 98 of 163

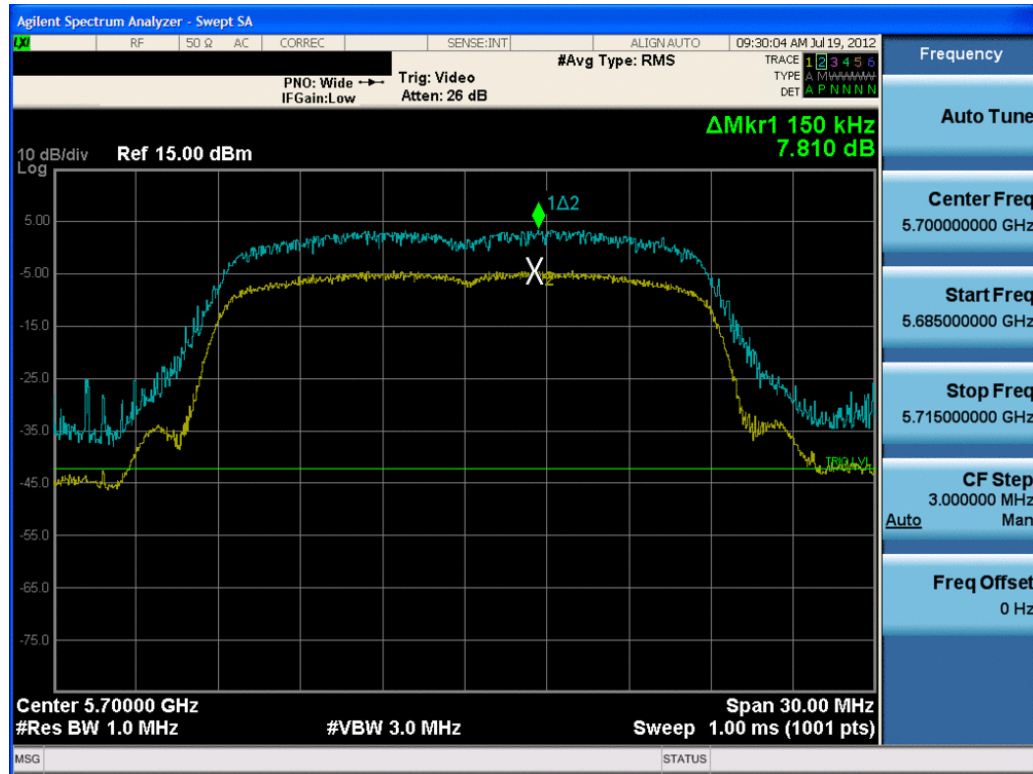


Plot 6-145. Peak Excursion Ratio Plot (20MHz BW 802.11n (UNII Band 3) – Ch. 100) – Chain B

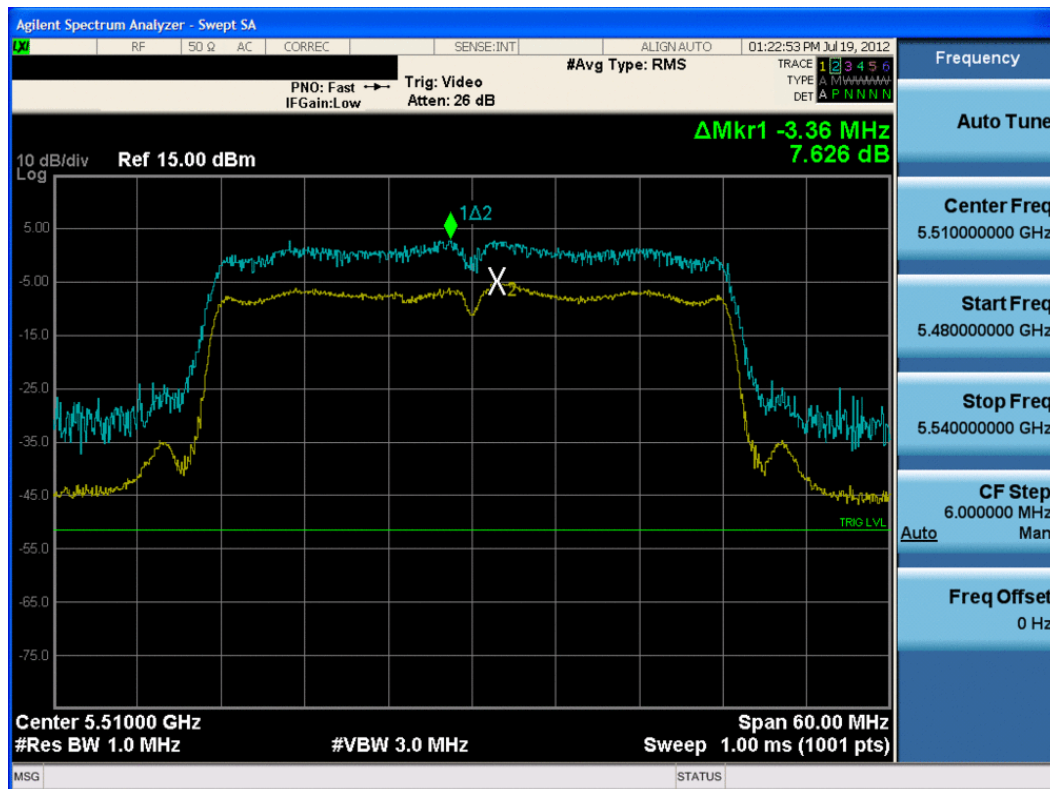


Plot 6-146. Peak Excursion Ratio Plot (20MHz BW 802.11n (UNII Band 3) – Ch. 116) – Chain B

FCC ID: A3LGP8110	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n UNII MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1207130946.A3L	Test Dates: 07/16/12 - 07/23/12	EUT Type: Portable Tablet		Page 99 of 163

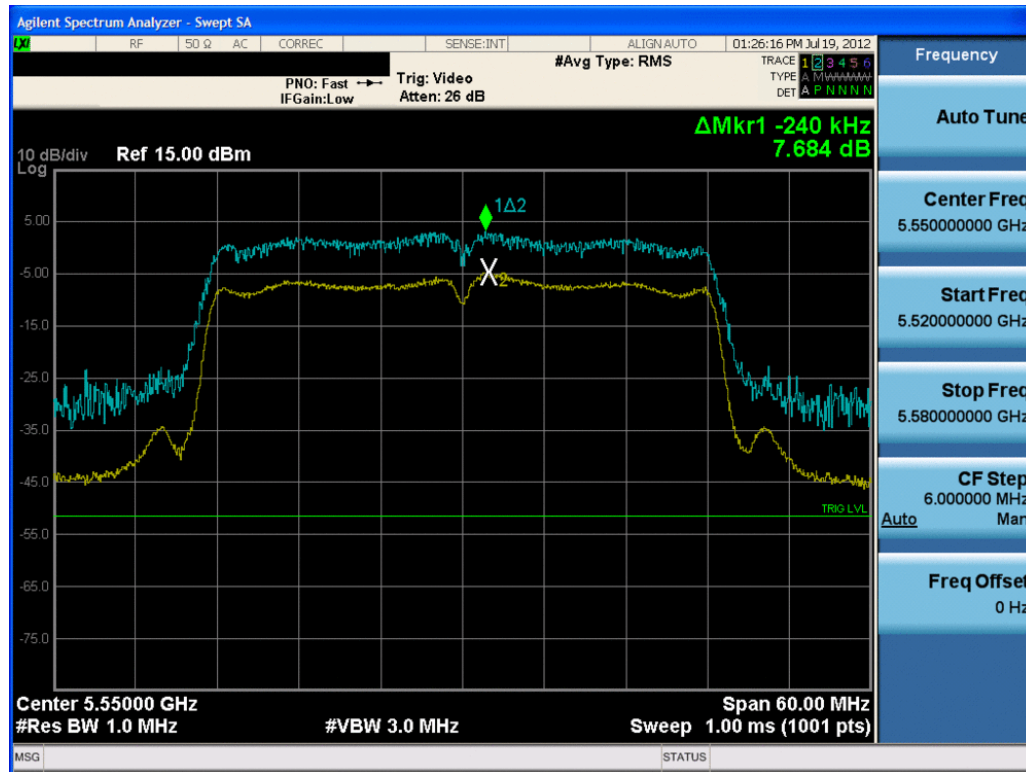


Plot 6-147. Peak Excursion Ratio Plot (20MHz BW 802.11n (UNII Band 3) – Ch. 140) – Chain B

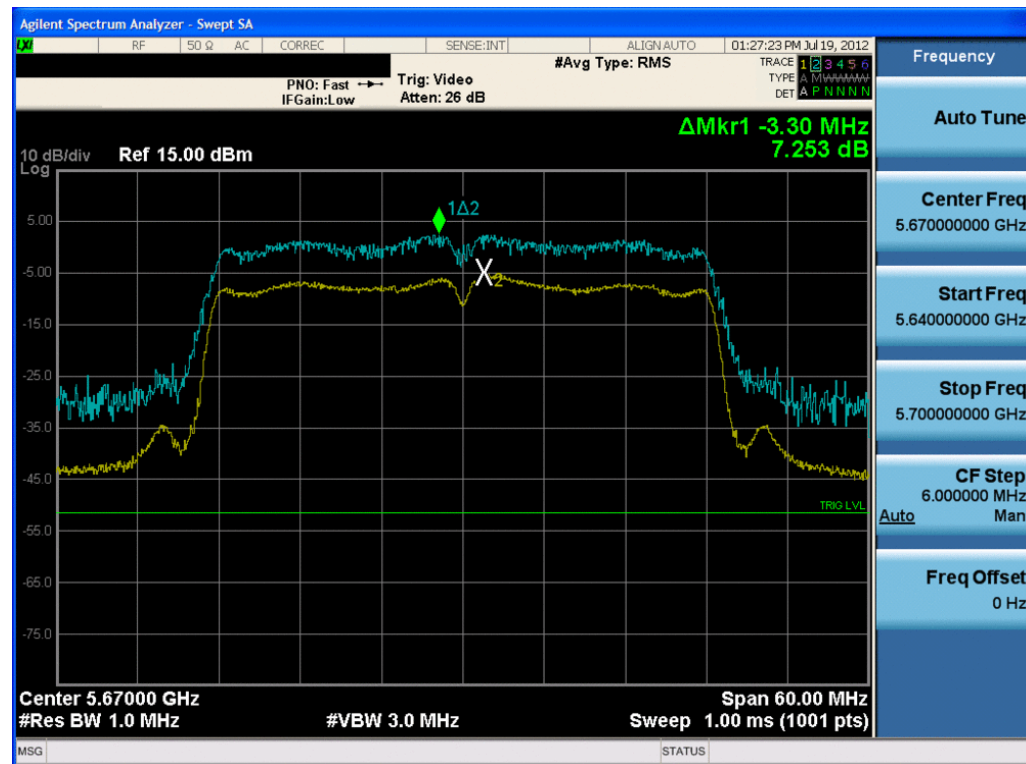


Plot 6-148. Peak Excursion Ratio Plot (40MHz BW 802.11n (UNII Band 3) – Ch. 102) – Chain B

FCC ID: A3LGTP8110	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n UNII MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1207130946.A3L	Test Dates: 07/16/12 - 07/23/12	EUT Type: Portable Tablet		Page 100 of 163



Plot 6-149. Peak Excursion Ratio Plot (40MHz BW 802.11n (UNII Band 3) – Ch. 110) – Chain B



Plot 6-150. Peak Excursion Ratio Plot (40MHz BW 802.11n (UNII Band 3) – Ch. 134) – Chain B

FCC ID: A3LGTP8110	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n UNII MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1207130946.A3L	Test Dates: 07/16/12 - 07/23/12	EUT Type: Portable Tablet		Page 101 of 163

6.6 Frequency Stability

§15.407(g)

The EUT was placed inside of an environmental chamber as the temperature in the chamber was varied between -30°C and +50°C. The temperature was incremented by 10° intervals and the unit was allowed to stabilize at each temperature before each measurement. The center frequency of the transmitting channel was evaluated at each temperature and the frequency deviation from the channel's center frequency was recorded. Data for the worst case channel is shown below.

OPERATING FREQUENCY: 5,180,000,000 Hz

CHANNEL: 36

REFERENCE VOLTAGE: 3.7 VDC

VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQUENCY (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.70	+ 20 (Ref)	5,179,999,981	-19	-0.00000037
100 %		- 30	5,179,999,994	-6	-0.00000012
100 %		- 20	5,179,999,986	-14	-0.00000027
100 %		- 10	5,179,999,991	-9	-0.00000018
100 %		0	5,179,999,984	-16	-0.00000030
100 %		+ 10	5,179,999,999	-1	-0.00000001
100 %		+ 20	5,179,999,991	-9	-0.00000017
100 %		+ 30	5,179,999,988	-12	-0.00000023
100 %		+ 40	5,179,999,982	-18	-0.00000034
100 %		+ 50	5,179,999,993	-7	-0.00000014
115 %	4.26	+ 20	5,179,999,992	-8	-0.00000015
BATT. ENDPOINT	3.40	+ 20	5,179,999,984	-16	-0.00000032

Table 6-25. Frequency Stability Measurements for UNII Band 1 (Ch. 36)

FCC ID: A3LGTP8110		FCC Pt. 15.407 802.11a/n UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1207130946.A3L	Test Dates: 07/16/12 - 07/23/12	EUT Type: Portable Tablet	Page 102 of 163	

Frequency Stability (Cont'd)

§15.407(g)

The EUT was placed inside of an environmental chamber as the temperature in the chamber was varied between -30°C and +50°C. The temperature was incremented by 10° intervals and the unit was allowed to stabilize at each temperature before each measurement. The center frequency of the transmitting channel was evaluated at each temperature and the frequency deviation from the channel's center frequency was recorded. Data for the worst case channel is shown below.

OPERATING FREQUENCY: 5,260,000,000 Hz

CHANNEL: 52

REFERENCE VOLTAGE: 3.7 VDC

VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQUENCY (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.70	+ 20 (Ref)	5,259,999,980	-20	-0.00000037
100 %		- 30	5,259,999,984	-16	-0.00000030
100 %		- 20	5,259,999,987	-13	-0.00000026
100 %		- 10	5,259,999,997	-3	-0.00000007
100 %		0	5,259,999,980	-20	-0.00000038
100 %		+ 10	5,259,999,987	-13	-0.00000024
100 %		+ 20	5,259,999,980	-20	-0.00000038
100 %		+ 30	5,259,999,995	-5	-0.00000009
100 %		+ 40	5,259,999,999	-1	-0.00000003
100 %		+ 50	5,259,999,990	-10	-0.00000019
115 %	4.26	+ 20	5,259,999,985	-15	-0.00000028
BATT. ENDPOINT	3.40	+ 20	5,259,999,986	-14	-0.00000026

Table 6-26. Frequency Stability Measurements for UNII Band 2 (Ch. 52)

FCC ID: A3LGTP8110		FCC Pt. 15.407 802.11a/n UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1207130946.A3L	Test Dates: 07/16/12 - 07/23/12	EUT Type: Portable Tablet	Page 103 of 163	

Frequency Stability (Cont'd)

§15.407(g)

The EUT was placed inside of an environmental chamber as the temperature in the chamber was varied between -30°C and +50°C. The temperature was incremented by 10° intervals and the unit was allowed to stabilize at each temperature before each measurement. The center frequency of the transmitting channel was evaluated at each temperature and the frequency deviation from the channel's center frequency was recorded. Data for the worst case channel is shown below.

OPERATING FREQUENCY: 5,500,000,000 Hz

CHANNEL: 100

REFERENCE VOLTAGE: 3.7 VDC

VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQUENCY (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.70	+ 20 (Ref)	5,499,999,997	-3	-0.00000005
100 %		- 30	5,499,999,988	-12	-0.00000021
100 %		- 20	5,499,999,986	-14	-0.00000026
100 %		- 10	5,499,999,999	-1	-0.00000002
100 %		0	5,499,999,999	-1	-0.00000001
100 %		+ 10	5,499,999,998	-2	-0.00000004
100 %		+ 20	5,499,999,996	-4	-0.00000008
100 %		+ 30	5,499,999,989	-11	-0.00000020
100 %		+ 40	5,499,999,985	-15	-0.00000028
100 %		+ 50	5,499,999,995	-5	-0.00000010
115 %	4.26	+ 20	5,499,999,992	-8	-0.00000014
BATT. ENDPOINT	3.40	+ 20	5,499,999,983	-17	-0.00000030

Table 6-27. Frequency Stability Measurements for UNII Band 3 (Ch. 100)

FCC ID: A3LGTP8110		FCC Pt. 15.407 802.11a/n UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1207130946.A3L	Test Dates: 07/16/12 - 07/23/12	EUT Type: Portable Tablet	Page 104 of 163	

6.7 Radiated Spurious Emission Measurements

§15.407(b)(1), (6), §15.205, §15.209; RSS-210 [A9.2]

The EUT was tested from 9kHz and up to the 10th harmonic of the fundamental frequency of the transmitter using CISPR quasi peak detector below 1GHz. Above 1 GHz, peak measurements were taken using RBW = 1MHz and VBW = 3MHz. Average emissions are measured using RBW = 1MHz, VBW = 3MHz, RMS detector, and 100 trace averages under continuous operation ("Method AD") per KDB 789033 and linearly polarized horn antennas. All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR must not exceed the limits shown in Table 6-28 per Section 15.209.

All data rates and modes were investigated for radiated spurious emissions. Only the radiated emissions of the configuration that produced the worst case emissions are reported in this section. All measurements shown in this section were obtained using traditional radiated test methods as defined in C63.10-2009. The optional test procedures for antenna port conducted measurements of unwanted emissions per the guidance of KDB 789033 were not used to evaluate this device.

Frequency	Field Strength [μV/m]	Measured Distance [Meters]
0.009 – 0.490 MHz	2400/F (kHz)	300
0.490 – 1.705 MHz	24000/F (kHz)	30
1.705 – 30.00 MHz	30	30
30.00 – 88.00 MHz	100	3
88.00 – 216.0 MHz	150	3
216.0 – 960.0 MHz	200	3
Above 960.0 MHz	500	3

Table 6-28. Radiated Limits

Sample Calculation

- o Field Strength Level [dBμV/m] = Analyzer Level [dBm] + 107 + AFCL [dB/m]
- o AFCL [dB/m] = Antenna Factor [dB/m] + Cable Loss [dB]
- o Margin [dB] = Field Strength Level [dBμV/m] – Limit [dBμV/m]

FCC ID: A3LGTP8110		FCC Pt. 15.407 802.11a/n UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1207130946.A3L	Test Dates: 07/16/12 - 07/23/12	EUT Type: Portable Tablet		Page 105 of 163

Radiated Spurious Emission Measurements (Cont'd)

§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]

Worst Case Mode: 802.11a

Worst Case Transfer Rate: 6 Mbps

Distance of Measurements: 3 meter

Operating Frequency: 5180MHz

Channel: 36

Frequency [MHz]	Analyzer Level [dBm]	Detector	Pol. [H/V]	AFCL [dB/m]	Field Strength [dBmV/m]	Limit [dBmV/m]	Margin [dB]
10360.00	-100.74	Peak	H	45.55	51.82	68.20	-16.38
* 15540.00	-135.00	Average	H	52.74	24.74	53.98	-29.24
* 15540.00	-125.00	Peak	H	52.74	34.74	73.98	-39.24
* 20720.00	-135.00	Average	H	44.02	16.02	53.98	-37.96
* 20720.00	-125.00	Peak	H	44.02	26.02	73.98	-47.96
25900.00	-125.00	Peak	H	44.85	26.85	68.20	-41.35

Table 6-29. Radiated Measurements @ 3 meter – Chain A

NOTES:

1. All harmonics that do not lie in a restricted band are subject to a peak limit of -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions of 68.2dBμV/m.
2. All emissions that lie in the restricted bands (denoted by a * next to the frequency) specified in §15.205 are below the limit shown in Table 6-28.
3. For frequencies above 1GHz, peak emissions are measured using RBW = 1MHz and VBW = 3MHz. Average emissions are measured using RBW = 1MHz, VBW = 3MHz, RMS detector, and 100 trace averages under continuous operation ("Method AD") per KDB 789033.
4. The antenna is manipulated through typical positions, polarity and length during the tests. The EUT is manipulated through three orthogonal planes.
5. The EUT is supplied with nominal AC voltage and/or a new/fully-recharged battery.
6. The spectrum is measured from 9kHz to 40GHz and the worst-case emissions are reported. No significant emissions were found beyond the fifth harmonic for this device.
7. Levels at - 135 dBm represent the analyzer noise floor and signify that no emission was detected.
8. Above 960MHz the limit is 500 μV/m (54dBμ/m) at 3 meters radiated for emissions that lie in restricted bands specified in §15.205.

FCC ID: A3LGTP8110		FCC Pt. 15.407 802.11a/n UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1207130946.A3L	Test Dates: 07/16/12 - 07/23/12	EUT Type: Portable Tablet		Page 106 of 163

Radiated Spurious Emission Measurements (Cont'd)

§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]

Worst Case Mode: 802.11a

Worst Case Transfer Rate: 6 Mbps

Distance of Measurements: 3 meter

Operating Frequency: 5200MHz

Channel: 40

Frequency [MHz]	Analyzer Level [dBm]	Detector	Pol. [H/V]	AFCL [dB/m]	Field Strength [dBmV/m]	Limit [dBmV/m]	Margin [dB]
10400.00	-101.95	Peak	H	45.64	50.69	68.20	-17.51
* 15600.00	-135.00	Average	H	52.93	24.93	53.98	-29.05
* 15600.00	-125.00	Peak	H	52.93	34.93	73.98	-39.05
* 20800.00	-135.00	Average	H	44.00	16.00	53.98	-37.98
* 20800.00	-125.00	Peak	H	44.00	26.00	73.98	-47.98
26000.00	-125.00	Peak	H	44.88	26.88	68.20	-41.32

Table 6-30. Radiated Measurements @ 3 meter – Chain A

NOTES:

- All harmonics that do not lie in a restricted band are subject to a peak limit of -27dBm/MHz (68.2dBμV/m). At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions of 68.2dBμV/m.
- All emissions that lie in the restricted bands (denoted by a * next to the frequency) specified in §15.205 are below the limit shown in Table 6-28.
- For frequencies above 1GHz, peak emissions are measured using RBW = 1MHz and VBW = 3MHz. Average emissions are measured using RBW = 1MHz, VBW = 3MHz, RMS detector, and 100 trace averages under continuous operation ("Method AD") per KDB 789033.
- The antenna is manipulated through typical positions, polarity and length during the tests. The EUT is manipulated through three orthogonal planes.
- The EUT is supplied with nominal AC voltage and/or a new/fully-recharged battery.
- The spectrum is measured from 9kHz to 40GHz and the worst-case emissions are reported. No significant emissions were found beyond the fifth harmonic for this device.
- Levels at -135 dBm represent the analyzer noise floor and signify that no emission was detected.
- Above 960MHz the limit is 500 μV/m (54dBμV/m) at 3 meters radiated for emissions that lie in restricted bands specified in §15.205.

FCC ID: A3LGTP8110		FCC Pt. 15.407 802.11a/n UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1207130946.A3L	Test Dates: 07/16/12 - 07/23/12	EUT Type: Portable Tablet		Page 107 of 163

Radiated Spurious Emission Measurements (Cont'd)

§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]

Worst Case Mode: 802.11a

Worst Case Transfer Rate: 6 Mbps

Distance of Measurements: 3 meter

Operating Frequency: 5240MHz

Channel: 48

Frequency [MHz]	Analyzer Level [dBm]	Detector	Pol. [H/V]	AFCL [dB/m]	Field Strength [dBmV/m]	Limit [dBmV/m]	Margin [dB]
10480.00	-101.48	Peak	H	45.81	51.34	68.20	-16.86
* 15720.00	-135.00	Average	H	53.30	25.30	53.98	-28.68
* 15720.00	-125.00	Peak	H	53.30	35.30	73.98	-38.68
* 20960.00	-135.00	Average	H	43.99	15.99	53.98	-37.99
* 20960.00	-125.00	Peak	H	43.99	25.99	73.98	-47.99
26200.00	-125.00	Peak	H	44.82	26.82	68.20	-41.38

Table 6-31. Radiated Measurements @ 3 meter – Chain A

NOTES:

- All harmonics that do not lie in a restricted band are subject to a peak limit of -27dBm/MHz (68.2dBμV/m). At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions of 68.2dBμV/m.
- All emissions that lie in the restricted bands (denoted by a * next to the frequency) specified in §15.205 are below the limit shown in Table 6-28.
- For frequencies above 1GHz, peak emissions are measured using RBW = 1MHz and VBW = 3MHz. Average emissions are measured using RBW = 1MHz, VBW = 3MHz, RMS detector, and 100 trace averages under continuous operation ("Method AD") per KDB 789033.
- The antenna is manipulated through typical positions, polarity and length during the tests. The EUT is manipulated through three orthogonal planes.
- The EUT is supplied with nominal AC voltage and/or a new/fully-recharged battery.
- The spectrum is measured from 9kHz to 40GHz and the worst-case emissions are reported. No significant emissions were found beyond the fifth harmonic for this device.
- Levels at - 135 dBm represent the analyzer noise floor and signify that no emission was detected.
- Above 960MHz the limit is 500 μV/m (54dBμV/m) at 3 meters radiated for emissions that lie in restricted bands specified in §15.205.

FCC ID: A3LGTP8110		FCC Pt. 15.407 802.11a/n UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1207130946.A3L	Test Dates: 07/16/12 - 07/23/12	EUT Type: Portable Tablet		Page 108 of 163

Radiated Spurious Emission Measurements (Cont'd)

§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]

Worst Case Mode: 802.11a

Worst Case Transfer Rate: 6 Mbps

Distance of Measurements: 3 meter

Operating Frequency: 5260MHz

Channel: 52

Frequency [MHz]	Analyzer Level [dBm]	Detector	Pol. [H/V]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
10520.00	-101.74	Peak	H	45.91	51.17	68.20	-17.03
* 15780.00	-135.00	Average	H	53.53	25.53	53.98	-28.45
* 15780.00	-125.00	Peak	H	53.53	35.53	73.98	-38.45
* 21040.00	-135.00	Average	H	44.01	16.01	53.98	-37.97
* 21040.00	-125.00	Peak	H	44.01	26.01	73.98	-47.97
26300.00	-125.00	Peak	H	44.87	26.87	68.20	-41.33

Table 6-32. Radiated Measurements @ 3 meter – Chain A

NOTES:

1. All harmonics that do not lie in a restricted band are subject to a peak limit of -27dBm/MHz (68.2dBμV/m). At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions of 68.2dBμV/m.
2. All emissions that lie in the restricted bands (denoted by a * next to the frequency) specified in §15.205 are below the limit shown in Table 6-28.
3. For frequencies above 1GHz, peak emissions are measured using RBW = 1MHz and VBW = 3MHz. Average emissions are measured using RBW = 1MHz, VBW = 3MHz, RMS detector, and 100 trace averages under continuous operation ("Method AD") per KDB 789033.
4. The antenna is manipulated through typical positions, polarity and length during the tests. The EUT is manipulated through three orthogonal planes.
5. The EUT is supplied with nominal AC voltage and/or a new/fully-recharged battery.
6. The spectrum is measured from 9kHz to 40GHz and the worst-case emissions are reported. No significant emissions were found beyond the fifth harmonic for this device.
7. Levels at - 135 dBm represent the analyzer noise floor and signify that no emission was detected.
8. Above 960MHz the limit is 500 μV/m (54dBμV/m) at 3 meters radiated for emissions that lie in restricted bands specified in §15.205.

FCC ID: A3LGTP8110		FCC Pt. 15.407 802.11a/n UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1207130946.A3L	Test Dates: 07/16/12 - 07/23/12	EUT Type: Portable Tablet		Page 109 of 163

Radiated Spurious Emission Measurements (Cont'd)

§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]

Worst Case Mode: 802.11a

Worst Case Transfer Rate: 6 Mbps

Distance of Measurements: 3 meter

Operating Frequency: 5280MHz

Channel: 56

Frequency [MHz]	Analyzer Level [dBm]	Detector	Pol. [H/V]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
10560.00	-101.75	Peak	H	46.01	51.26	68.20	-16.94
* 15840.00	-135.00	Average	H	53.79	25.79	53.98	-28.19
* 15840.00	-125.00	Peak	H	53.79	35.79	73.98	-38.19
* 21120.00	-135.00	Average	H	44.00	16.00	53.98	-37.98
* 21120.00	-125.00	Peak	H	44.00	26.00	73.98	-47.98
26400.00	-125.00	Peak	H	44.81	26.81	68.20	-41.39

Table 6-33. Radiated Measurements @ 3 meter – Chain A

NOTES:

- All harmonics that do not lie in a restricted band are subject to a peak limit of -27dBm/MHz (68.2dBμV/m). At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions of 68.2dBμV/m.
- All emissions that lie in the restricted bands (denoted by a * next to the frequency) specified in §15.205 are below the limit shown in Table 6-28.
- For frequencies above 1GHz, peak emissions are measured using RBW = 1MHz and VBW = 3MHz. Average emissions are measured using RBW = 1MHz, VBW = 3MHz, RMS detector, and 100 trace averages under continuous operation ("Method AD") per KDB 789033.
- The antenna is manipulated through typical positions, polarity and length during the tests. The EUT is manipulated through three orthogonal planes.
- The EUT is supplied with nominal AC voltage and/or a new/fully-recharged battery.
- The spectrum is measured from 9kHz to 40GHz and the worst-case emissions are reported. No significant emissions were found beyond the fifth harmonic for this device.
- Levels at - 135 dBm represent the analyzer noise floor and signify that no emission was detected.
- Above 960MHz the limit is 500 μV/m (54dBμ/m) at 3 meters radiated for emissions that lie in restricted bands specified in §15.205.

FCC ID: A3LGTP8110		FCC Pt. 15.407 802.11a/n UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1207130946.A3L	Test Dates: 07/16/12 - 07/23/12	EUT Type: Portable Tablet		Page 110 of 163

Radiated Spurious Emission Measurements (Cont'd)

§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]

Worst Case Mode: 802.11a

Worst Case Transfer Rate: 6 Mbps

Distance of Measurements: 3 meter

Operating Frequency: 5320MHz

Channel: 64

	Frequency [MHz]	Analyzer Level [dBm]	Detector	Pol. [H/V]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
*	10640.00	-110.39	Average	H	46.22	42.83	53.98	-11.15
*	10640.00	-101.86	Peak	H	46.22	51.36	73.98	-22.62
*	15960.00	-135.00	Average	H	55.98	27.98	53.98	-26.00
*	15960.00	-125.00	Peak	H	55.98	37.98	73.98	-36.00
*	21280.00	-135.00	Average	H	44.02	16.02	53.98	-37.96
*	21280.00	-125.00	Peak	H	44.02	26.02	73.98	-47.96
	26600.00	-125.00	Peak	H	44.70	26.70	68.20	-41.50

Table 6-34. Radiated Measurements @ 3 meter – Chain A

NOTES:

- All harmonics that do not lie in a restricted band are subject to a peak limit of -27dBm/MHz (68.2dBμV/m). At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions of 68.2dBμV/m.
- All emissions that lie in the restricted bands (denoted by a * next to the frequency) specified in §15.205 are below the limit shown in Table 6-28.
- For frequencies above 1GHz, peak emissions are measured using RBW = 1MHz and VBW = 3MHz. Average emissions are measured using RBW = 1MHz, VBW = 3MHz, RMS detector, and 100 trace averages under continuous operation ("Method AD") per KDB 789033
- The antenna is manipulated through typical positions, polarity and length during the tests. The EUT is manipulated through three orthogonal planes.
- The EUT is supplied with nominal AC voltage and/or a new/fully-recharged battery.
- The spectrum is measured from 9kHz to 40GHz and the worst-case emissions are reported. No significant emissions were found beyond the fifth harmonic for this device.
- Levels at -135 dBm represent the analyzer noise floor and signify that no emission was detected.
- Above 960MHz the limit is 500 μV/m (54dBμV/m) at 3 meters radiated for emissions that lie in restricted bands specified in §15.205.

FCC ID: A3LGTP8110		FCC Pt. 15.407 802.11a/n UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1207130946.A3L	Test Dates: 07/16/12 - 07/23/12	EUT Type: Portable Tablet		Page 111 of 163

Radiated Spurious Emission Measurements (Cont'd)

§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]

Worst Case Mode: 802.11a

Worst Case Transfer Rate: 6 Mbps

Distance of Measurements: 3 meter

Operating Frequency: 5500MHz

Channel: 100

	Frequency [MHz]	Analyzer Level [dBm]	Detector	Pol. [H/V]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
*	11000.00	-109.69	Average	H	46.72	44.03	53.98	-9.95
*	11000.00	-102.30	Peak	H	46.72	51.42	73.98	-22.56
	16500.00	-125.00	Peak	H	54.95	36.95	68.20	-31.25
	22000.00	-125.00	Peak	H	44.30	26.30	68.20	-41.90
	27500.00	-125.00	Peak	H	44.10	26.10	68.20	-42.10

Table 6-35. Radiated Measurements @ 3 meter – Chain A

NOTES:

1. All harmonics that do not lie in a restricted band are subject to a peak limit of -27dBm/MHz (68.2dBμV/m). At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions of 68.2dBμV/m.
2. All emissions that lie in the restricted bands (denoted by a * next to the frequency) specified in §15.205 are below the limit shown in Table 6-28.
3. For frequencies above 1GHz, peak emissions are measured using RBW = 1MHz and VBW = 3MHz. Average emissions are measured using RBW = 1MHz, VBW = 3MHz, RMS detector, and 100 trace averages under continuous operation ("Method AD") per KDB 789033.
4. The antenna is manipulated through typical positions, polarity and length during the tests. The EUT is manipulated through three orthogonal planes.
5. The EUT is supplied with nominal AC voltage and/or a new/fully-recharged battery.
6. The spectrum is measured from 9kHz to 40GHz and the worst-case emissions are reported. No significant emissions were found beyond the fifth harmonic for this device.
7. Levels at - 135 dBm represent the analyzer noise floor and signify that no emission was detected.
8. Above 960MHz the limit is 500 μV/m (54dBμ/m) at 3 meters radiated for emissions that lie in restricted bands specified in §15.205.

FCC ID: A3LGTP8110		FCC Pt. 15.407 802.11a/n UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1207130946.A3L	Test Dates: 07/16/12 - 07/23/12	EUT Type: Portable Tablet		Page 112 of 163

Radiated Spurious Emission Measurements (Cont'd)

§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]

Worst Case Mode: 802.11a

Worst Case Transfer Rate: 6 Mbps

Distance of Measurements: 3 meter

Operating Frequency: 5580MHz

Channel: 116

	Frequency [MHz]	Analyzer Level [dBm]	Detector	Pol. [H/V]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
*	11160.00	-107.79	Average	H	49.14	48.35	53.98	-5.63
*	11160.00	-102.13	Peak	H	49.14	54.01	73.98	-19.97
	16740.00	-125.00	Peak	H	54.31	36.31	68.20	-31.89
*	22320.00	-135.00	Average	H	44.40	16.40	53.98	-37.58
*	22320.00	-125.00	Peak	H	44.40	26.40	73.98	-47.58
	27900.00	-125.00	Peak	H	43.94	25.94	68.20	-42.26

Table 6-36. Radiated Measurements @ 3 meter – Chain A

NOTES:

- All harmonics that do not lie in a restricted band are subject to a peak limit of -27dBm/MHz (68.2dBμV/m). At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions of 68.2dBμV/m.
- All emissions that lie in the restricted bands (denoted by a * next to the frequency) specified in §15.205 are below the limit shown in Table 6-28.
- For frequencies above 1GHz, peak emissions are measured using RBW = 1MHz and VBW = 3MHz. Average emissions are measured using RBW = 1MHz, VBW = 3MHz, RMS detector, and 100 trace averages under continuous operation ("Method AD") per KDB 789033.
- The antenna is manipulated through typical positions, polarity and length during the tests. The EUT is manipulated through three orthogonal planes.
- The EUT is supplied with nominal AC voltage and/or a new/fully-recharged battery.
- The spectrum is measured from 9kHz to 40GHz and the worst-case emissions are reported. No significant emissions were found beyond the fifth harmonic for this device.
- Levels at -135 dBm represent the analyzer noise floor and signify that no emission was detected.
- Above 960MHz the limit is 500 μV/m (54dBμ/m) at 3 meters radiated for emissions that lie in restricted bands specified in §15.205.

FCC ID: A3LGTP8110		FCC Pt. 15.407 802.11a/n UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1207130946.A3L	Test Dates: 07/16/12 - 07/23/12	EUT Type: Portable Tablet		Page 113 of 163

Radiated Spurious Emission Measurements (Cont'd)

§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]

Worst Case Mode: 802.11a

Worst Case Transfer Rate: 6 Mbps

Distance of Measurements: 3 meter

Operating Frequency: 5700MHz

Channel: 140

	Frequency [MHz]	Analyzer Level [dBm]	Detector	Pol. [H/V]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
*	11400.00	-110.62	Average	H	47.30	43.69	53.98	-10.29
*	11400.00	-104.22	Peak	H	47.30	50.09	73.98	-23.89
	17100.00	-125.00	Peak	H	53.08	35.08	68.20	-33.12
*	22800.00	-135.00	Average	H	44.45	16.45	53.98	-37.53
*	22800.00	-125.00	Peak	H	44.45	26.45	73.98	-47.53
	28500.00	-125.00	Peak	H	43.63	25.63	68.20	-42.57

Table 6-37. Radiated Measurements @ 3 meter – Chain A

NOTES:

1. All harmonics that do not lie in a restricted band are subject to a peak limit of -27dBm/MHz (68.2dBμV/m). At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions of 68.2dBμV/m.
2. All emissions that lie in the restricted bands (denoted by a * next to the frequency) specified in §15.205 are below the limit shown in Table 6-28.
3. For frequencies above 1GHz, peak emissions are measured using RBW = 1MHz and VBW = 3MHz. Average emissions are measured using RBW = 1MHz, VBW = 3MHz, RMS detector, and 100 trace averages under continuous operation ("Method AD") per KDB 789033.
4. The antenna is manipulated through typical positions, polarity and length during the tests. The EUT is manipulated through three orthogonal planes.
5. The EUT is supplied with nominal AC voltage and/or a new/fully-recharged battery.
6. The spectrum is measured from 9kHz to 40GHz and the worst-case emissions are reported. No significant emissions were found beyond the fifth harmonic for this device.
7. Levels at - 135 dBm represent the analyzer noise floor and signify that no emission was detected.
8. Above 960MHz the limit is 500 μV/m (54dBμV/m) at 3 meters radiated for emissions that lie in restricted bands specified in §15.205.

FCC ID: A3LGTP8110		FCC Pt. 15.407 802.11a/n UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1207130946.A3L	Test Dates: 07/16/12 - 07/23/12	EUT Type: Portable Tablet		Page 114 of 163

6.8 Radiated Measurements (20MHz BW) – Chain A

§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]

Worst Case Mode: 802.11a

Worst Case Transfer Rate: 6 Mbps

Distance of Measurements: 3 meter

Operating Frequency: 5180MHz

Channel: 36

Frequency [MHz]	Analyzer Level [dBm]	Detector	Pol. [H/V]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
5113.03	-110.08	Average	H	39.22	36.14	53.98	-17.84
5113.03	-98.36	Peak	H	39.22	47.86	73.98	-26.12
5137.50	-108.64	Average	H	39.25	37.61	53.98	-16.37
5137.50	-95.82	Peak	H	39.25	50.43	73.98	-23.55
5150.00	-106.56	Average	H	39.27	39.71	53.98	-14.27
5150.00	-91.15	Peak	H	39.27	55.12	73.98	-18.86

Table 6-38. Radiated Restricted Band Measurements at 3 meter (4.5 – 5.15GHz) – Chain A

NOTES:

- For frequencies above 1GHz, peak emissions are measured using RBW = 1MHz and VBW = 3MHz. Average emissions are measured using RBW = 1MHz, VBW = 3MHz, RMS detector, and 100 trace averages under continuous operation ("Method AD") per KDB 789033.
- The antenna is manipulated through typical positions, polarity and length during the tests. The EUT is manipulated through three orthogonal planes.
- The EUT is supplied with nominal AC voltage and/or a new/fully-recharged battery.
- The spectrum is measured from 9kHz to 40GHz and the worst-case emissions are reported. No significant emissions were found beyond the fifth harmonic for this device.
- Levels at - 135 dBm represent the analyzer noise floor and signify that no emission was detected.
- Above 960MHz the limit is 500 μV/m (54dBμ/m) at 3 meters radiated for emissions that lie in restricted bands specified in §15.205.

FCC ID: A3LGP8110		FCC Pt. 15.407 802.11a/n UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1207130946.A3L	Test Dates: 07/16/12 - 07/23/12	EUT Type: Portable Tablet		Page 115 of 163

Radiated Band Edge Measurements (20MHz BW) (Cont'd)

§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]

Worst Case Mode: 802.11a

Worst Case Transfer Rate: 6 Mbps

Distance of Measurements: 3 meter

Operating Frequency: 5320MHz

Channel: 64

Frequency [MHz]	Analyzer Level [dBm]	Detector	Pol. [H/V]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
5350.00	-104.70	Average	H	39.53	41.83	53.98	-12.15
5350.00	-92.11	Peak	H	39.53	54.42	73.98	-19.56
5350.71	-102.26	Average	H	39.53	44.27	53.98	-9.71
5350.71	-93.62	Peak	H	39.53	52.91	73.98	-21.07
5354.05	-106.59	Average	H	39.53	39.95	53.98	-14.03
5354.05	-95.08	Peak	H	39.53	51.46	73.98	-22.52

Table 6-39. Radiated Restricted Band Measurements at 3 meter (5.35 – 5.46GHz, 5.46 – 5.47GHz) – Chain A

NOTES:

1. Emissions within 5.35 – 5.46GHz lie in a restricted band and are subject to the radiated emissions limits specified in §15.209. Emission within 5.46 – 5.47GHz are at the lower band edge of UNII Band 3 transmission and are subject to the -27dBm/MHz (68.2dBμV/m) EIRP limit specified in §15.407.
2. For frequencies above 1GHz, peak emissions are measured using RBW = 1MHz and VBW = 3MHz. Average emissions are measured using RBW = 1MHz, VBW = 3MHz, RMS detector, and 100 trace averages under continuous operation ("Method AD") per KDB 789033.
3. The antenna is manipulated through typical positions, polarity and length during the tests. The EUT is manipulated through three orthogonal planes.
4. The EUT is supplied with nominal AC voltage and/or a new/fully-recharged battery.
5. The spectrum is measured from 9kHz to 40GHz and the worst-case emissions are reported. No significant emissions were found beyond the fifth harmonic for this device.
6. Levels at -135 dBm represent the analyzer noise floor and signify that no emission was detected.
7. Above 960MHz the limit is 500 μV/m (54dBμV/m) at 3 meters radiated for emissions that lie in restricted band specified in §15.205.

FCC ID: A3LGP8110		FCC Pt. 15.407 802.11a/n UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1207130946.A3L	Test Dates: 07/16/12 - 07/23/12	EUT Type: Portable Tablet		Page 116 of 163

Radiated Band Edge Measurements (20MHz BW) (Cont'd)

§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]

Worst Case Mode: 802.11a

Worst Case Transfer Rate: 6 Mbps

Distance of Measurements: 3 meter

Operating Frequency: 5500MHz

Channel: 100

Frequency [MHz]	Analyzer Level [dBm]	Detector	Pol. [H/V]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
5456.12	-109.93	Average	H	39.66	36.74	53.98	-17.24
5456.12	-96.21	Peak	H	39.66	50.46	73.98	-23.52
5459.47	-109.12	Average	H	39.67	37.55	53.98	-16.43
5459.47	-96.58	Peak	H	39.67	50.09	73.98	-23.89
5467.94	-86.19	Peak	H	39.68	60.49	68.20	-7.71

Table 6-40. Radiated Restricted Band Measurements at 3 meter (5.35 – 5.46GHz, 5.46 – 5.47GHz) – Chain A

NOTES:

1. Emissions within 5.35 – 5.46GHz lie in a restricted band and are subject to the radiated emissions limits specified in §15.209. Emission within 5.46 – 5.47GHz are at the lower band edge of UNII Band 3 transmission and are subject to the -27dBm/MHz (68.2dBμV/m) EIRP limit specified in §15.407.
2. For frequencies above 1GHz, peak emissions are measured using RBW = 1MHz and VBW = 3MHz. Average emissions are measured using RBW = 1MHz, VBW = 3MHz, RMS detector, and 100 trace averages under continuous operation ("Method AD") per KDB 789033.
3. The antenna is manipulated through typical positions, polarity and length during the tests. The EUT is manipulated through three orthogonal planes.
4. The EUT is supplied with nominal AC voltage and/or a new/fully-recharged battery.
5. The spectrum is measured from 9kHz to 40GHz and the worst-case emissions are reported. No significant emissions were found beyond the fifth harmonic for this device.
6. Levels at -135 dBm represent the analyzer noise floor and signify that no emission was detected.
7. Above 960MHz the limit is 500 μV/m (54dBμV/m) at 3 meters radiated for emissions that lie in restricted bands specified in §15.205.

FCC ID: A3LGTP8110		FCC Pt. 15.407 802.11a/n UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1207130946.A3L	Test Dates: 07/16/12 - 07/23/12	EUT Type: Portable Tablet		Page 117 of 163

Radiated Band Edge Measurements (20MHz BW) (Cont'd)

§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]

Worst Case Mode: 802.11a

Worst Case Transfer Rate: 6 Mbps

Distance of Measurements: 3 meter

Operating Frequency: 5700MHz

Channel: 140

Frequency [MHz]	Analyzer Level [dBm]	Detector	Pol. [H/V]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
5725.00	-82.69	Peak	H	40.18	64.49	68.20	-3.71
5726.44	-84.49	Peak	H	40.18	62.69	68.20	-5.51
5728.25	-86.63	Peak	H	40.18	60.55	68.20	-7.65

Table 6-41. Radiated Restricted Band Measurements at 3 meter – Chain A

NOTES:

- For frequencies above 1GHz, peak emissions are measured using RBW = 1MHz and VBW = 3MHz. Average emissions are measured using RBW = 1MHz, VBW = 3MHz, RMS detector, and 100 trace averages under continuous operation ("Method AD") per KDB 789033.
- The antenna is manipulated through typical positions, polarity and length during the tests. The EUT is manipulated through three orthogonal planes.
- The EUT is supplied with nominal AC voltage and/or a new/fully-recharged battery.
- The spectrum is measured from 9kHz to 40GHz and the worst-case emissions are reported. No significant emissions were found beyond the fifth harmonic for this device.
- Levels at - 135 dBm represent the analyzer noise floor and signify that no emission was detected.
- Above 960MHz the limit is 500 μV/m (54dBμ/m) at 3 meters radiated for emissions that lie in restricted bands specified in §15.205.

FCC ID: A3LGTP8110		FCC Pt. 15.407 802.11a/n UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1207130946.A3L	Test Dates: 07/16/12 - 07/23/12	EUT Type: Portable Tablet		Page 118 of 163

6.9 Radiated Measurements (40MHz BW) – Chain A

§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]

Worst Case Mode: 802.11n (40MHz)

Worst Case Transfer Rate: MCS 0

Distance of Measurements: 3 meter

Operating Frequency: 5190MHz

Channel: 38

Frequency [MHz]	Analyzer Level [dBm]	Detector	Pol. [H/V]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
5031.05	-107.78	Average	H	42.34	41.55	53.98	-12.43
5031.05	-94.69	Peak	H	42.34	54.64	73.98	-19.34
5127.90	-106.42	Average	H	42.85	43.43	53.98	-10.55
5127.90	-88.46	Peak	H	42.85	61.39	73.98	-12.59
5150.00	-99.47	Average	H	42.98	50.52	53.98	-3.46
5150.00	-83.73	Peak	H	42.98	66.25	73.98	-7.73

Table 6-42. Radiated Restricted Band Measurements at 3 meter (4.5 – 5.15GHz) – Chain A

NOTES:

- For frequencies above 1GHz, peak emissions are measured using RBW = 1MHz and VBW = 3MHz. Average emissions are measured using RBW = 1MHz, VBW = 3MHz, RMS detector, and 100 trace averages under continuous operation ("Method AD") per KDB 789033.
- The antenna is manipulated through typical positions, polarity and length during the tests. The EUT is manipulated through three orthogonal planes.
- The EUT is supplied with nominal AC voltage and/or a new/fully-recharged battery.
- The spectrum is measured from 9kHz to 40GHz and the worst-case emissions are reported. No significant emissions were found beyond the fifth harmonic for this device.
- Levels at - 135 dBm represent the analyzer noise floor and signify that no emission was detected.
- Above 960MHz the limit is 500 μV/m (54dBμ/m) at 3 meters radiated for emissions that lie in restricted bands specified in §15.205.

FCC ID: A3LGRP8110		FCC Pt. 15.407 802.11a/n UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1207130946.A3L	Test Dates: 07/16/12 - 07/23/12	EUT Type: Portable Tablet		Page 119 of 163

Radiated Band Edge Measurements (40MHz BW) (Cont'd)

§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]

Worst Case Mode: 802.11n (40MHz)

Worst Case Transfer Rate: MCS 0

Distance of Measurements: 3 meter

Operating Frequency: 5310MHz

Channel: 62

Frequency [MHz]	Analyzer Level [dBm]	Detector	Pol. [H/V]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
5350.00	-103.58	Average	H	43.69	47.11	53.98	-6.87
5350.00	-89.29	Peak	H	43.69	61.40	73.98	-12.58
5352.52	-105.08	Average	H	43.70	45.62	53.98	-8.36
5352.52	-85.59	Peak	H	43.70	65.11	73.98	-8.87
5360.01	-106.01	Average	H	43.72	44.71	53.98	-9.27
5360.01	-86.57	Peak	H	43.72	64.15	73.98	-9.83

Table 6-43. Radiated Restricted Band Measurements at 3 meter (5.35 – 5.46GHz, 5.46 – 5.47GHz) – Chain A

NOTES:

1. Emissions within 5.35 – 5.46GHz lie in a restricted band and are subject to the radiated emissions limits specified in §15.209. Emission within 5.46 – 5.47GHz are at the lower band edge of UNII Band 3 transmission and are subject to the -27dBm/MHz (68.2dBμV/m) EIRP limit specified in §15.407.
2. For frequencies above 1GHz, peak emissions are measured using RBW = 1MHz and VBW = 3MHz. Average emissions are measured using RBW = 1MHz, VBW = 3MHz, RMS detector, and 100 trace averages under continuous operation ("Method AD") per KDB 789033.
3. The antenna is manipulated through typical positions, polarity and length during the tests. The EUT is manipulated through three orthogonal planes.
4. The EUT is supplied with nominal AC voltage and/or a new/fully-recharged battery.
5. The spectrum is measured from 9kHz to 40GHz and the worst-case emissions are reported. No significant emissions were found beyond the fifth harmonic for this device.
6. Levels at -135 dBm represent the analyzer noise floor and signify that no emission was detected.
7. Above 960MHz the limit is 500 μV/m (54dBμV/m) at 3 meters radiated for emissions that lie in restricted band specified in §15.205.

FCC ID: A3LGP8110		FCC Pt. 15.407 802.11a/n UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1207130946.A3L	Test Dates: 07/16/12 - 07/23/12	EUT Type: Portable Tablet		Page 120 of 163

Radiated Band Edge Measurements (40MHz BW) (Cont'd)

§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]

Worst Case Mode: 802.11n (40MHz)

Worst Case Transfer Rate: MCS 0

Distance of Measurements: 3 meter

Operating Frequency: 5510MHz

Channel: 102

Frequency [MHz]	Analyzer Level [dBm]	Detector	Pol. [H/V]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
5439.87	-107.91	Average	H	44.02	43.11	53.98	-10.87
5439.87	-90.70	Peak	H	44.02	60.32	73.98	-13.66
5460.00	-102.80	Average	H	44.05	48.25	53.98	-10.13
5460.00	-84.96	Peak	H	44.05	66.09	73.98	-20.34
5469.42	-83.89	Peak	H	43.97	67.08	68.20	-9.72

Table 6-44. Radiated Restricted Band Measurements at 3 meter (5.35 – 5.46GHz, 5.46 – 5.47GHz) – Chain A

NOTES:

1. Emissions within 5.35 – 5.46GHz lie in a restricted band and are subject to the radiated emissions limits specified in §15.209. Emission within 5.46 – 5.47GHz are at the lower band edge of UNII Band 3 transmission and are subject to the -27dBm/MHz (68.2dBμV/m) EIRP limit specified in §15.407.
2. For frequencies above 1GHz, peak emissions are measured using RBW = 1MHz and VBW = 3MHz. Average emissions are measured using RBW = 1MHz, VBW = 3MHz, RMS detector, and 100 trace averages under continuous operation ("Method AD") per KDB 789033.
3. The antenna is manipulated through typical positions, polarity and length during the tests. The EUT is manipulated through three orthogonal planes.
4. The EUT is supplied with nominal AC voltage and/or a new/fully-recharged battery.
5. The spectrum is measured from 9kHz to 40GHz and the worst-case emissions are reported. No significant emissions were found beyond the fifth harmonic for this device.
6. Levels at -135 dBm represent the analyzer noise floor and signify that no emission was detected.
7. Above 960MHz the limit is 500 μV/m (54dBμV/m) at 3 meters radiated for emissions that lie in restricted bands specified in §15.205.

FCC ID: A3LGTP8110		FCC Pt. 15.407 802.11a/n UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1207130946.A3L	Test Dates: 07/16/12 - 07/23/12	EUT Type: Portable Tablet		Page 121 of 163

Radiated Band Edge Measurements (40MHz BW) (Cont'd)

§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]

Worst Case Mode: 802.11n (40MHz)

Worst Case Transfer Rate: MCS 0

Distance of Measurements: 3 meter

Operating Frequency: 5690MHz

Channel: 138

Frequency [MHz]	Analyzer Level [dBm]	Detector	Pol. [H/V]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
5725.00	-83.64	Peak	H	44.07	67.43	68.20	-0.77
5727.78	-83.92	Peak	H	44.07	67.16	68.20	-1.04
5731.30	-84.18	Peak	H	44.08	66.89	68.20	-1.31

Table 6-45. Radiated Restricted Band Measurements at 3 meter – Chain A

NOTES:

- For frequencies above 1GHz, peak emissions are measured using RBW = 1MHz and VBW = 3MHz. Average emissions are measured using RBW = 1MHz, VBW = 3MHz, RMS detector, and 100 trace averages under continuous operation ("Method AD") per KDB 789033.
- The antenna is manipulated through typical positions, polarity and length during the tests. The EUT is manipulated through three orthogonal planes.
- The EUT is supplied with nominal AC voltage and/or a new/fully-recharged battery.
- The spectrum is measured from 9kHz to 40GHz and the worst-case emissions are reported. No significant emissions were found beyond the fifth harmonic for this device.
- Levels at - 135 dBm represent the analyzer noise floor and signify that no emission was detected.
- Above 960MHz the limit is 500 μV/m (54dBμ/m) at 3 meters radiated for emissions that lie in restricted bands specified in §15.205.

FCC ID: A3LGTP8110		FCC Pt. 15.407 802.11a/n UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1207130946.A3L	Test Dates: 07/16/12 - 07/23/12	EUT Type: Portable Tablet		Page 122 of 163

Radiated Spurious Emission Measurements (Cont'd)

§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]

Worst Case Mode: 802.11a

Worst Case Transfer Rate: 6 Mbps

Distance of Measurements: 3 meter

Operating Frequency: 5180MHz

Channel: 36

Frequency [MHz]	Analyzer Level [dBm]	Detector	Pol. [H/V]	AFCL [dB/m]	Field Strength [dBmV/m]	Limit [dBmV/m]	Margin [dB]
10360.00	-102.78	Peak	H	45.55	49.78	68.20	-18.42
* 15540.00	-135.00	Average	H	52.74	24.74	53.98	-29.24
* 15540.00	-125.00	Peak	H	52.74	34.74	73.98	-39.24
* 20720.00	-135.00	Average	H	44.02	16.02	53.98	-37.96
* 20720.00	-125.00	Peak	H	44.02	26.02	73.98	-47.96
25900.00	-125.00	Peak	H	44.85	26.85	68.20	-41.35

Table 6-46. Radiated Measurements @ 3 meter – Chain B

NOTES:

1. All harmonics that do not lie in a restricted band are subject to a peak limit of -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions of 68.2dBμV/m.
2. All emissions that lie in the restricted bands (denoted by a * next to the frequency) specified in §15.205 are below the limit shown in Table 6-28.
3. For frequencies above 1GHz, peak emissions are measured using RBW = 1MHz and VBW = 3MHz. Average emissions are measured using RBW = 1MHz, VBW = 3MHz, RMS detector, and 100 trace averages under continuous operation ("Method AD") per KDB 789033.
4. The antenna is manipulated through typical positions, polarity and length during the tests. The EUT is manipulated through three orthogonal planes.
5. The EUT is supplied with nominal AC voltage and/or a new/fully-recharged battery.
6. The spectrum is measured from 9kHz to 40GHz and the worst-case emissions are reported. No significant emissions were found beyond the fifth harmonic for this device.
7. Levels at - 135 dBm represent the analyzer noise floor and signify that no emission was detected.
8. Above 960MHz the limit is 500 μV/m (54dBμ/m) at 3 meters radiated for emissions that lie in restricted bands specified in §15.205.

FCC ID: A3LGTP8110		FCC Pt. 15.407 802.11a/n UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1207130946.A3L	Test Dates: 07/16/12 - 07/23/12	EUT Type: Portable Tablet		Page 123 of 163

Radiated Spurious Emission Measurements (Cont'd)

§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]

Worst Case Mode: 802.11a

Worst Case Transfer Rate: 6 Mbps

Distance of Measurements: 3 meter

Operating Frequency: 5200MHz

Channel: 40

Frequency [MHz]	Analyzer Level [dBm]	Detector	Pol. [H/V]	AFCL [dB/m]	Field Strength [dBmV/m]	Limit [dBmV/m]	Margin [dB]
10400.00	-102.06	Peak	H	45.64	50.58	68.20	-17.62
* 15600.00	-135.00	Average	H	52.93	24.93	53.98	-29.05
* 15600.00	-125.00	Peak	H	52.93	34.93	73.98	-39.05
* 20800.00	-135.00	Average	H	44.00	16.00	53.98	-37.98
* 20800.00	-125.00	Peak	H	44.00	26.00	73.98	-47.98
26000.00	-125.00	Peak	H	44.88	26.88	68.20	-41.32

Table 6-47. Radiated Measurements @ 3 meter – Chain B

NOTES:

- All harmonics that do not lie in a restricted band are subject to a peak limit of -27dBm/MHz (68.2dBμV/m). At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions of 68.2dBμV/m.
- All emissions that lie in the restricted bands (denoted by a * next to the frequency) specified in §15.205 are below the limit shown in Table 6-28.
- For frequencies above 1GHz, peak emissions are measured using RBW = 1MHz and VBW = 3MHz. Average emissions are measured using RBW = 1MHz, VBW = 3MHz, RMS detector, and 100 trace averages under continuous operation ("Method AD") per KDB 789033.
- The antenna is manipulated through typical positions, polarity and length during the tests. The EUT is manipulated through three orthogonal planes.
- The EUT is supplied with nominal AC voltage and/or a new/fully-recharged battery.
- The spectrum is measured from 9kHz to 40GHz and the worst-case emissions are reported. No significant emissions were found beyond the fifth harmonic for this device.
- Levels at -135 dBm represent the analyzer noise floor and signify that no emission was detected.
- Above 960MHz the limit is 500 μV/m (54dBμV/m) at 3 meters radiated for emissions that lie in restricted bands specified in §15.205.

FCC ID: A3LGTP8110		FCC Pt. 15.407 802.11a/n UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1207130946.A3L	Test Dates: 07/16/12 - 07/23/12	EUT Type: Portable Tablet		Page 124 of 163

Radiated Spurious Emission Measurements (Cont'd)

§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]

Worst Case Mode: 802.11a

Worst Case Transfer Rate: 6 Mbps

Distance of Measurements: 3 meter

Operating Frequency: 5240MHz

Channel: 48

Frequency [MHz]	Analyzer Level [dBm]	Detector	Pol. [H/V]	AFCL [dB/m]	Field Strength [dBmV/m]	Limit [dBmV/m]	Margin [dB]
10480.00	-103.41	Peak	H	45.81	49.41	68.20	-18.79
* 15720.00	-135.00	Average	H	53.30	25.30	53.98	-28.68
* 15720.00	-125.00	Peak	H	53.30	35.30	73.98	-38.68
* 20960.00	-135.00	Average	H	43.99	15.99	53.98	-37.99
* 20960.00	-125.00	Peak	H	43.99	25.99	73.98	-47.99
26200.00	-125.00	Peak	H	44.82	26.82	68.20	-41.38

Table 6-48. Radiated Measurements @ 3 meter – Chain B

NOTES:

- All harmonics that do not lie in a restricted band are subject to a peak limit of -27dBm/MHz (68.2dBμV/m). At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions of 68.2dBμV/m.
- All emissions that lie in the restricted bands (denoted by a * next to the frequency) specified in §15.205 are below the limit shown in Table 6-28.
- For frequencies above 1GHz, peak emissions are measured using RBW = 1MHz and VBW = 3MHz. Average emissions are measured using RBW = 1MHz, VBW = 3MHz, RMS detector, and 100 trace averages under continuous operation ("Method AD") per KDB 789033.
- The antenna is manipulated through typical positions, polarity and length during the tests. The EUT is manipulated through three orthogonal planes.
- The EUT is supplied with nominal AC voltage and/or a new/fully-recharged battery.
- The spectrum is measured from 9kHz to 40GHz and the worst-case emissions are reported. No significant emissions were found beyond the fifth harmonic for this device.
- Levels at - 135 dBm represent the analyzer noise floor and signify that no emission was detected.
- Above 960MHz the limit is 500 μV/m (54dBμV/m) at 3 meters radiated for emissions that lie in restricted bands specified in §15.205.

FCC ID: A3LGTP8110		FCC Pt. 15.407 802.11a/n UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1207130946.A3L	Test Dates: 07/16/12 - 07/23/12	EUT Type: Portable Tablet		Page 125 of 163

Radiated Spurious Emission Measurements (Cont'd)

§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]

Worst Case Mode: 802.11a

Worst Case Transfer Rate: 6 Mbps

Distance of Measurements: 3 meter

Operating Frequency: 5260MHz

Channel: 52

Frequency [MHz]	Analyzer Level [dBm]	Detector	Pol. [H/V]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
10520.00	-102.38	Peak	H	45.91	50.53	68.20	-17.67
* 15780.00	-135.00	Average	H	53.53	25.53	53.98	-28.45
* 15780.00	-125.00	Peak	H	53.53	35.53	73.98	-38.45
* 21040.00	-135.00	Average	H	44.01	16.01	53.98	-37.97
* 21040.00	-125.00	Peak	H	44.01	26.01	73.98	-47.97
26300.00	-125.00	Peak	H	44.87	26.87	68.20	-41.33

Table 6-49. Radiated Measurements @ 3 meter – Chain B

NOTES:

1. All harmonics that do not lie in a restricted band are subject to a peak limit of -27dBm/MHz (68.2dBμV/m). At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions of 68.2dBμV/m.
2. All emissions that lie in the restricted bands (denoted by a * next to the frequency) specified in §15.205 are below the limit shown in Table 6-28.
3. For frequencies above 1GHz, peak emissions are measured using RBW = 1MHz and VBW = 3MHz. Average emissions are measured using RBW = 1MHz, VBW = 3MHz, RMS detector, and 100 trace averages under continuous operation ("Method AD") per KDB 789033.
4. The antenna is manipulated through typical positions, polarity and length during the tests. The EUT is manipulated through three orthogonal planes.
5. The EUT is supplied with nominal AC voltage and/or a new/fully-recharged battery.
6. The spectrum is measured from 9kHz to 40GHz and the worst-case emissions are reported. No significant emissions were found beyond the fifth harmonic for this device.
7. Levels at - 135 dBm represent the analyzer noise floor and signify that no emission was detected.
8. Above 960MHz the limit is 500 μV/m (54dBμV/m) at 3 meters radiated for emissions that lie in restricted bands specified in §15.205.

FCC ID: A3LGTP8110		FCC Pt. 15.407 802.11a/n UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1207130946.A3L	Test Dates: 07/16/12 - 07/23/12	EUT Type: Portable Tablet		Page 126 of 163

Radiated Spurious Emission Measurements (Cont'd)

§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]

Worst Case Mode: 802.11a

Worst Case Transfer Rate: 6 Mbps

Distance of Measurements: 3 meter

Operating Frequency: 5280MHz

Channel: 56

Frequency [MHz]	Analyzer Level [dBm]	Detector	Pol. [H/V]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
10560.00	-103.92	Peak	H	46.01	49.09	68.20	-19.11
* 15840.00	-135.00	Average	H	53.79	25.79	53.98	-28.19
* 15840.00	-125.00	Peak	H	53.79	35.79	73.98	-38.19
* 21120.00	-135.00	Average	H	44.00	16.00	53.98	-37.98
* 21120.00	-125.00	Peak	H	44.00	26.00	73.98	-47.98
26400.00	-125.00	Peak	H	44.81	26.81	68.20	-41.39

Table 6-50. Radiated Measurements @ 3 meter – Chain B

NOTES:

- All harmonics that do not lie in a restricted band are subject to a peak limit of -27dBm/MHz (68.2dBμV/m). At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions of 68.2dBμV/m.
- All emissions that lie in the restricted bands (denoted by a * next to the frequency) specified in §15.205 are below the limit shown in Table 6-28.
- For frequencies above 1GHz, peak emissions are measured using RBW = 1MHz and VBW = 3MHz. Average emissions are measured using RBW = 1MHz, VBW = 3MHz, RMS detector, and 100 trace averages under continuous operation ("Method AD") per KDB 789033.
- The antenna is manipulated through typical positions, polarity and length during the tests. The EUT is manipulated through three orthogonal planes.
- The EUT is supplied with nominal AC voltage and/or a new/fully-recharged battery.
- The spectrum is measured from 9kHz to 40GHz and the worst-case emissions are reported. No significant emissions were found beyond the fifth harmonic for this device.
- Levels at -135 dBm represent the analyzer noise floor and signify that no emission was detected.
- Above 960MHz the limit is 500 μV/m (54dBμV/m) at 3 meters radiated for emissions that lie in restricted bands specified in §15.205.

FCC ID: A3LGTP8110		FCC Pt. 15.407 802.11a/n UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1207130946.A3L	Test Dates: 07/16/12 - 07/23/12	EUT Type: Portable Tablet		Page 127 of 163

Radiated Spurious Emission Measurements (Cont'd)

§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]

Worst Case Mode: 802.11a

Worst Case Transfer Rate: 6 Mbps

Distance of Measurements: 3 meter

Operating Frequency: 5320MHz

Channel: 64

	Frequency [MHz]	Analyzer Level [dBm]	Detector	Pol. [H/V]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
*	10640.00	-111.34	Average	H	46.22	41.88	53.98	-12.10
*	10640.00	-103.25	Peak	H	46.22	49.97	73.98	-24.01
*	15960.00	-135.00	Average	H	55.98	27.98	53.98	-26.00
*	15960.00	-125.00	Peak	H	55.98	37.98	73.98	-36.00
*	21280.00	-135.00	Average	H	44.02	16.02	53.98	-37.96
*	21280.00	-125.00	Peak	H	44.02	26.02	73.98	-47.96
	26600.00	-125.00	Peak	H	44.70	26.70	68.20	-41.50

Table 6-51. Radiated Measurements @ 3 meter – Chain B

NOTES:

- All harmonics that do not lie in a restricted band are subject to a peak limit of -27dBm/MHz (68.2dBμV/m). At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions of 68.2dBμV/m.
- All emissions that lie in the restricted bands (denoted by a * next to the frequency) specified in §15.205 are below the limit shown in Table 6-28.
- For frequencies above 1GHz, peak emissions are measured using RBW = 1MHz and VBW = 3MHz. Average emissions are measured using RBW = 1MHz, VBW = 3MHz, RMS detector, and 100 trace averages under continuous operation ("Method AD") per KDB 789033
- The antenna is manipulated through typical positions, polarity and length during the tests. The EUT is manipulated through three orthogonal planes.
- The EUT is supplied with nominal AC voltage and/or a new/fully-recharged battery.
- The spectrum is measured from 9kHz to 40GHz and the worst-case emissions are reported. No significant emissions were found beyond the fifth harmonic for this device.
- Levels at -135 dBm represent the analyzer noise floor and signify that no emission was detected.
- Above 960MHz the limit is 500 μV/m (54dBμV/m) at 3 meters radiated for emissions that lie in restricted bands specified in §15.205.

FCC ID: A3LGTP8110		FCC Pt. 15.407 802.11a/n UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1207130946.A3L	Test Dates: 07/16/12 - 07/23/12	EUT Type: Portable Tablet		Page 128 of 163

Radiated Spurious Emission Measurements (Cont'd)

§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]

Worst Case Mode: 802.11a

Worst Case Transfer Rate: 6 Mbps

Distance of Measurements: 3 meter

Operating Frequency: 5500MHz

Channel: 100

	Frequency [MHz]	Analyzer Level [dBm]	Detector	Pol. [H/V]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
*	11000.00	-110.30	Average	H	46.72	43.42	53.98	-10.56
*	11000.00	-103.93	Peak	H	46.72	49.79	73.98	-24.19
	16500.00	-125.00	Peak	H	54.95	36.95	68.20	-31.25
	22000.00	-125.00	Peak	H	44.30	26.30	68.20	-41.90
	27500.00	-125.00	Peak	H	44.10	26.10	68.20	-42.10

Table 6-52. Radiated Measurements @ 3 meter – Chain B

NOTES:

- All harmonics that do not lie in a restricted band are subject to a peak limit of -27dBm/MHz (68.2dBμV/m). At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions of 68.2dBμV/m.
- All emissions that lie in the restricted bands (denoted by a * next to the frequency) specified in §15.205 are below the limit shown in Table 6-28.
- For frequencies above 1GHz, peak emissions are measured using RBW = 1MHz and VBW = 3MHz. Average emissions are measured using RBW = 1MHz, VBW = 3MHz, RMS detector, and 100 trace averages under continuous operation (“Method AD”) per KDB 789033.
- The antenna is manipulated through typical positions, polarity and length during the tests. The EUT is manipulated through three orthogonal planes.
- The EUT is supplied with nominal AC voltage and/or a new/fully-recharged battery.
- The spectrum is measured from 9kHz to 40GHz and the worst-case emissions are reported. No significant emissions were found beyond the fifth harmonic for this device.
- Levels at - 135 dBm represent the analyzer noise floor and signify that no emission was detected.
- Above 960MHz the limit is 500 μV/m (54dBμ/m) at 3 meters radiated for emissions that lie in restricted bands specified in §15.205.

FCC ID: A3LGTP8110		FCC Pt. 15.407 802.11a/n UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1207130946.A3L	Test Dates: 07/16/12 - 07/23/12	EUT Type: Portable Tablet		Page 129 of 163

Radiated Spurious Emission Measurements (Cont'd)

§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]

Worst Case Mode: 802.11a

Worst Case Transfer Rate: 6 Mbps

Distance of Measurements: 3 meter

Operating Frequency: 5580MHz

Channel: 116

	Frequency [MHz]	Analyzer Level [dBm]	Detector	Pol. [H/V]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
*	11160.00	-109.33	Average	H	49.14	46.81	53.98	-7.17
*	11160.00	-102.64	Peak	H	49.14	53.50	73.98	-20.48
	16740.00	-125.00	Peak	H	54.31	36.31	68.20	-31.89
*	22320.00	-135.00	Average	H	44.40	16.40	53.98	-37.58
*	22320.00	-125.00	Peak	H	44.40	26.40	73.98	-47.58
	27900.00	-125.00	Peak	H	43.94	25.94	68.20	-42.26

Table 6-53. Radiated Measurements @ 3 meter – Chain B

NOTES:

- All harmonics that do not lie in a restricted band are subject to a peak limit of -27dBm/MHz (68.2dBμV/m). At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions of 68.2dBμV/m.
- All emissions that lie in the restricted bands (denoted by a * next to the frequency) specified in §15.205 are below the limit shown in Table 6-28.
- For frequencies above 1GHz, peak emissions are measured using RBW = 1MHz and VBW = 3MHz. Average emissions are measured using RBW = 1MHz, VBW = 3MHz, RMS detector, and 100 trace averages under continuous operation ("Method AD") per KDB 789033.
- The antenna is manipulated through typical positions, polarity and length during the tests. The EUT is manipulated through three orthogonal planes.
- The EUT is supplied with nominal AC voltage and/or a new/fully-recharged battery.
- The spectrum is measured from 9kHz to 40GHz and the worst-case emissions are reported. No significant emissions were found beyond the fifth harmonic for this device.
- Levels at -135 dBm represent the analyzer noise floor and signify that no emission was detected.
- Above 960MHz the limit is 500 μV/m (54dBμ/m) at 3 meters radiated for emissions that lie in restricted bands specified in §15.205.

FCC ID: A3LGTP8110		FCC Pt. 15.407 802.11a/n UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1207130946.A3L	Test Dates: 07/16/12 - 07/23/12	EUT Type: Portable Tablet		Page 130 of 163

Radiated Spurious Emission Measurements (Cont'd)

§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]

Worst Case Mode: 802.11a

Worst Case Transfer Rate: 6 Mbps

Distance of Measurements: 3 meter

Operating Frequency: 5700MHz

Channel: 140

	Frequency [MHz]	Analyzer Level [dBm]	Detector	Pol. [H/V]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
*	11400.00	-111.28	Average	H	47.30	43.03	53.98	-10.95
*	11400.00	-102.61	Peak	H	47.30	51.70	73.98	-22.28
	17100.00	-125.00	Peak	H	53.08	35.08	68.20	-33.12
*	22800.00	-135.00	Average	H	44.45	16.45	53.98	-37.53
*	22800.00	-125.00	Peak	H	44.45	26.45	73.98	-47.53
	28500.00	-125.00	Peak	H	43.63	25.63	68.20	-42.57

Table 6-54. Radiated Measurements @ 3 meter – Chain B

NOTES:

1. All harmonics that do not lie in a restricted band are subject to a peak limit of -27dBm/MHz (68.2dBμV/m). At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions of 68.2dBμV/m.
2. All emissions that lie in the restricted bands (denoted by a * next to the frequency) specified in §15.205 are below the limit shown in Table 6-28.
3. For frequencies above 1GHz, peak emissions are measured using RBW = 1MHz and VBW = 3MHz. Average emissions are measured using RBW = 1MHz, VBW = 3MHz, RMS detector, and 100 trace averages under continuous operation ("Method AD") per KDB 789033.
4. The antenna is manipulated through typical positions, polarity and length during the tests. The EUT is manipulated through three orthogonal planes.
5. The EUT is supplied with nominal AC voltage and/or a new/fully-recharged battery.
6. The spectrum is measured from 9kHz to 40GHz and the worst-case emissions are reported. No significant emissions were found beyond the fifth harmonic for this device.
7. Levels at - 135 dBm represent the analyzer noise floor and signify that no emission was detected.
8. Above 960MHz the limit is 500 μV/m (54dBμV/m) at 3 meters radiated for emissions that lie in restricted bands specified in §15.205.

FCC ID: A3LGTP8110		FCC Pt. 15.407 802.11a/n UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1207130946.A3L	Test Dates: 07/16/12 - 07/23/12	EUT Type: Portable Tablet		Page 131 of 163

6.10 Radiated Measurements (20MHz BW) – Chain B

§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]

Worst Case Mode: 802.11a

Worst Case Transfer Rate: 6 Mbps

Distance of Measurements: 3 meter

Operating Frequency: 5180MHz

Channel: 36

Frequency [MHz]	Analyzer Level [dBm]	Detector	Pol. [H/V]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
5123.96	-101.45	Average	H	39.23	44.78	53.98	-9.19
5123.96	-86.82	Peak	H	39.23	59.41	73.98	-14.56
5138.48	-99.71	Average	H	39.25	46.55	53.98	-7.43
5138.48	-83.56	Peak	H	39.25	62.70	73.98	-11.28
5150.00	-98.03	Average	H	39.27	48.24	53.98	-5.74
5150.00	-84.50	Peak	H	39.27	61.77	73.98	-12.21

Table 6-55. Radiated Restricted Band Measurements at 3 meter (4.5 – 5.15GHz) – Chain B

NOTES:

- For frequencies above 1GHz, peak emissions are measured using RBW = 1MHz and VBW = 3MHz. Average emissions are measured using RBW = 1MHz, VBW = 3MHz, RMS detector, and 100 trace averages under continuous operation ("Method AD") per KDB 789033.
- The antenna is manipulated through typical positions, polarity and length during the tests. The EUT is manipulated through three orthogonal planes.
- The EUT is supplied with nominal AC voltage and/or a new/fully-recharged battery.
- The spectrum is measured from 9kHz to 40GHz and the worst-case emissions are reported. No significant emissions were found beyond the fifth harmonic for this device.
- Levels at - 135 dBm represent the analyzer noise floor and signify that no emission was detected.
- Above 960MHz the limit is 500 μV/m (54dBμ/m) at 3 meters radiated for emissions that lie in restricted bands specified in §15.205.

FCC ID: A3LGP8110		FCC Pt. 15.407 802.11a/n UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1207130946.A3L	Test Dates: 07/16/12 - 07/23/12	EUT Type: Portable Tablet		Page 132 of 163

Radiated Band Edge Measurements (20MHz BW) (Cont'd)

§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]

Worst Case Mode: 802.11a

Worst Case Transfer Rate: 6 Mbps

Distance of Measurements: 3 meter

Operating Frequency: 5320MHz

Channel: 64

Frequency [MHz]	Analyzer Level [dBm]	Detector	Pol. [H/V]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
5350.00	-95.04	Average	H	39.53	51.49	53.98	-2.49
5350.00	-80.12	Peak	H	39.53	66.41	73.98	-7.57
5354.94	-98.84	Average	H	39.53	47.69	53.98	-6.29
5354.94	-81.19	Peak	H	39.53	65.34	73.98	-8.64
5362.69	-98.33	Average	H	39.54	48.22	53.98	-5.76
5362.69	-82.16	Peak	H	39.54	64.39	73.98	-9.59

Table 6-56. Radiated Restricted Band Measurements at 3 meter (5.35 – 5.46GHz, 5.46 – 5.47GHz) – Chain B

NOTES:

1. Emissions within 5.35 – 5.46GHz lie in a restricted band and are subject to the radiated emissions limits specified in §15.209. Emission within 5.46 – 5.47GHz are at the lower band edge of UNII Band 3 transmission and are subject to the -27dBm/MHz (68.2dBμV/m) EIRP limit specified in §15.407.
2. For frequencies above 1GHz, peak emissions are measured using RBW = 1MHz and VBW = 3MHz. Average emissions are measured using RBW = 1MHz, VBW = 3MHz, RMS detector, and 100 trace averages under continuous operation ("Method AD") per KDB 789033.
3. The antenna is manipulated through typical positions, polarity and length during the tests. The EUT is manipulated through three orthogonal planes.
4. The EUT is supplied with nominal AC voltage and/or a new/fully-recharged battery.
5. The spectrum is measured from 9kHz to 40GHz and the worst-case emissions are reported. No significant emissions were found beyond the fifth harmonic for this device.
6. Levels at -135 dBm represent the analyzer noise floor and signify that no emission was detected.
7. Above 960MHz the limit is 500 μV/m (54dBμV/m) at 3 meters radiated for emissions that lie in restricted band specified in §15.205.

FCC ID: A3LGP8110		FCC Pt. 15.407 802.11a/n UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1207130946.A3L	Test Dates: 07/16/12 - 07/23/12	EUT Type: Portable Tablet		Page 133 of 163

Radiated Band Edge Measurements (20MHz BW) (Cont'd)

§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]

Worst Case Mode: 802.11a

Worst Case Transfer Rate: 6 Mbps

Distance of Measurements: 3 meter

Operating Frequency: 5500MHz

Channel: 100

Frequency [MHz]	Analyzer Level [dBm]	Detector	Pol. [H/V]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
5449.95	-102.72	Average	H	39.66	43.93	53.98	-10.05
5449.95	-88.36	Peak	H	39.66	58.29	73.98	-15.69
5460.00	-101.33	Average	H	39.67	45.34	53.98	-8.64
5460.00	-87.30	Peak	H	39.67	59.37	73.98	-14.61
5268.14	-82.16	Peak	H	39.42	64.26	68.20	-3.94

Table 6-57. Radiated Restricted Band Measurements at 3 meter (5.35 – 5.46GHz, 5.46 – 5.47GHz) – Chain B

NOTES:

1. Emissions within 5.35 – 5.46GHz lie in a restricted band and are subject to the radiated emissions limits specified in §15.209. Emission within 5.46 – 5.47GHz are at the lower band edge of UNII Band 3 transmission and are subject to the -27dBm/MHz (68.2dBμV/m) EIRP limit specified in §15.407.
2. For frequencies above 1GHz, peak emissions are measured using RBW = 1MHz and VBW = 3MHz. Average emissions are measured using RBW = 1MHz, VBW = 3MHz, RMS detector, and 100 trace averages under continuous operation ("Method AD") per KDB 789033.
3. The antenna is manipulated through typical positions, polarity and length during the tests. The EUT is manipulated through three orthogonal planes.
4. The EUT is supplied with nominal AC voltage and/or a new/fully-recharged battery.
5. The spectrum is measured from 9kHz to 40GHz and the worst-case emissions are reported. No significant emissions were found beyond the fifth harmonic for this device.
6. Levels at - 135 dBm represent the analyzer noise floor and signify that no emission was detected.
7. Above 960MHz the limit is 500 μV/m (54dBμ/m) at 3 meters radiated for emissions that lie in restricted bands specified in §15.205.

FCC ID: A3LGTP8110		FCC Pt. 15.407 802.11a/n UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1207130946.A3L	Test Dates: 07/16/12 - 07/23/12	EUT Type: Portable Tablet		Page 134 of 163

Radiated Band Edge Measurements (20MHz BW) (Cont'd)

§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]

Worst Case Mode: 802.11a

Worst Case Transfer Rate: 6 Mbps

Distance of Measurements: 3 meter

Operating Frequency: 5700MHz

Channel: 140

Frequency [MHz]	Analyzer Level [dBm]	Detector	Pol. [H/V]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
5726.08	-82.09	Peak	H	40.18	65.09	68.20	-3.11
5737.86	-84.87	Peak	H	40.20	62.33	68.20	-5.87
5747.96	-87.89	Peak	H	40.22	59.33	68.20	-8.87

Table 6-58. Radiated Restricted Band Measurements at 3 meter – Chain B

NOTES:

- For frequencies above 1GHz, peak emissions are measured using RBW = 1MHz and VBW = 3MHz. Average emissions are measured using RBW = 1MHz, VBW = 3MHz, RMS detector, and 100 trace averages under continuous operation ("Method AD") per KDB 789033.
- The antenna is manipulated through typical positions, polarity and length during the tests. The EUT is manipulated through three orthogonal planes.
- The EUT is supplied with nominal AC voltage and/or a new/fully-recharged battery.
- The spectrum is measured from 9kHz to 40GHz and the worst-case emissions are reported. No significant emissions were found beyond the fifth harmonic for this device.
- Levels at - 135 dBm represent the analyzer noise floor and signify that no emission was detected.
- Above 960MHz the limit is 500 μV/m (54dBμ/m) at 3 meters radiated for emissions that lie in restricted bands specified in §15.205.

FCC ID: A3LGTP8110		FCC Pt. 15.407 802.11a/n UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1207130946.A3L	Test Dates: 07/16/12 - 07/23/12	EUT Type: Portable Tablet		Page 135 of 163

6.11 Radiated Measurements (40MHz BW) – Chain B

§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]

Worst Case Mode: 802.11n (40MHz)

Worst Case Transfer Rate: MCS 0

Distance of Measurements: 3 meter

Operating Frequency: 5190MHz

Channel: 38

Frequency [MHz]	Analyzer Level [dBm]	Detector	Pol. [H/V]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
5107.75	-104.88	Average	H	42.73	44.85	53.98	-9.13
5107.75	-89.54	Peak	H	42.73	60.19	73.98	-13.79
5128.55	-101.93	Average	H	42.86	47.93	53.98	-6.05
5128.55	-84.04	Peak	H	42.86	65.82	73.98	-8.16
5150.00	-96.98	Average	H	42.98	53.01	53.98	-0.97
5150.00	-80.07	Peak	H	42.98	69.92	73.98	-4.06

Table 6-59. Radiated Restricted Band Measurements at 3 meter (4.5 – 5.15GHz) – Chain B

NOTES:

- For frequencies above 1GHz, peak emissions are measured using RBW = 1MHz and VBW = 3MHz. Average emissions are measured using RBW = 1MHz, VBW = 3MHz, RMS detector, and 100 trace averages under continuous operation ("Method AD") per KDB 789033.
- The antenna is manipulated through typical positions, polarity and length during the tests. The EUT is manipulated through three orthogonal planes.
- The EUT is supplied with nominal AC voltage and/or a new/fully-recharged battery.
- The spectrum is measured from 9kHz to 40GHz and the worst-case emissions are reported. No significant emissions were found beyond the fifth harmonic for this device.
- Levels at - 135 dBm represent the analyzer noise floor and signify that no emission was detected.
- Above 960MHz the limit is 500 μV/m (54dBμ/m) at 3 meters radiated for emissions that lie in restricted bands specified in §15.205.

FCC ID: A3LGTP8110		FCC Pt. 15.407 802.11a/n UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1207130946.A3L	Test Dates: 07/16/12 - 07/23/12	EUT Type: Portable Tablet		Page 136 of 163

Radiated Band Edge Measurements (40MHz BW) (Cont'd)

§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]

Worst Case Mode: 802.11n (40MHz)

Worst Case Transfer Rate: MCS 0

Distance of Measurements: 3 meter

Operating Frequency: 5310MHz

Channel: 62

Frequency [MHz]	Analyzer Level [dBm]	Detector	Pol. [H/V]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
5350.00	-97.66	Average	H	43.69	53.03	53.98	-0.95
5350.00	-84.21	Peak	H	43.69	66.48	73.98	-7.50
5352.97	-98.16	Average	H	43.70	52.54	53.98	-1.44
5352.97	-82.58	Peak	H	43.70	68.12	73.98	-5.86
5365.51	-102.92	Average	H	43.74	47.82	53.98	-6.16
5365.51	-86.52	Peak	H	43.74	64.22	73.98	-9.76

Table 6-60. Radiated Restricted Band Measurements at 3 meter (5.35 – 5.46GHz, 5.46 – 5.47GHz) – Chain B

NOTES:

- Emissions within 5.35 – 5.46GHz lie in a restricted band and are subject to the radiated emissions limits specified in §15.209. Emission within 5.46 – 5.47GHz are at the lower band edge of UNII Band 3 transmission and are subject to the -27dBm/MHz (68.2dBμV/m) EIRP limit specified in §15.407.
- For frequencies above 1GHz, peak emissions are measured using RBW = 1MHz and VBW = 3MHz. Average emissions are measured using RBW = 1MHz, VBW = 3MHz, RMS detector, and 100 trace averages under continuous operation ("Method AD") per KDB 789033.
- The antenna is manipulated through typical positions, polarity and length during the tests. The EUT is manipulated through three orthogonal planes.
- The EUT is supplied with nominal AC voltage and/or a new/fully-recharged battery.
- The spectrum is measured from 9kHz to 40GHz and the worst-case emissions are reported. No significant emissions were found beyond the fifth harmonic for this device.
- Levels at -135 dBm represent the analyzer noise floor and signify that no emission was detected.
- Above 960MHz the limit is 500 μV/m (54dBμ/m) at 3 meters radiated for emissions that lie in restricted band specified in §15.205.

FCC ID: A3LGP8110		FCC Pt. 15.407 802.11a/n UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1207130946.A3L	Test Dates: 07/16/12 - 07/23/12	EUT Type: Portable Tablet		Page 137 of 163

Radiated Band Edge Measurements (40MHz BW) (Cont'd)

§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]

Worst Case Mode: 802.11n (40MHz)

Worst Case Transfer Rate: MCS 0

Distance of Measurements: 3 meter

Operating Frequency: 5510MHz

Channel: 102

Frequency [MHz]	Analyzer Level [dBm]	Detector	Pol. [H/V]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
5441.74	-105.97	Average	H	44.02	45.06	53.98	-8.92
5441.74	-92.47	Peak	H	44.02	58.56	73.98	-15.42
5459.12	-102.06	Average	H	44.05	48.99	53.98	-10.13
5459.12	-87.96	Peak	H	44.05	63.09	73.98	-20.34
5469.85	-84.96	Peak	H	44.07	66.11	68.20	-9.72

Table 6-61. Radiated Restricted Band Measurements at 3 meter (5.35 – 5.46GHz, 5.46 – 5.47GHz) – Chain B

NOTES:

1. Emissions within 5.35 – 5.46GHz lie in a restricted band and are subject to the radiated emissions limits specified in §15.209. Emission within 5.46 – 5.47GHz are at the lower band edge of UNII Band 3 transmission and are subject to the -27dBm/MHz (68.2dBμV/m) EIRP limit specified in §15.407.
2. For frequencies above 1GHz, peak emissions are measured using RBW = 1MHz and VBW = 3MHz. Average emissions are measured using RBW = 1MHz, VBW = 3MHz, RMS detector, and 100 trace averages under continuous operation ("Method AD") per KDB 789033.
3. The antenna is manipulated through typical positions, polarity and length during the tests. The EUT is manipulated through three orthogonal planes.
4. The EUT is supplied with nominal AC voltage and/or a new/fully-recharged battery.
5. The spectrum is measured from 9kHz to 40GHz and the worst-case emissions are reported. No significant emissions were found beyond the fifth harmonic for this device.
6. Levels at -135 dBm represent the analyzer noise floor and signify that no emission was detected.
7. Above 960MHz the limit is 500 μV/m (54dBμV/m) at 3 meters radiated for emissions that lie in restricted bands specified in §15.205.

FCC ID: A3LGTP8110		FCC Pt. 15.407 802.11a/n UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1207130946.A3L	Test Dates: 07/16/12 - 07/23/12	EUT Type: Portable Tablet		Page 138 of 163

Radiated Band Edge Measurements (40MHz BW) (Cont'd)

§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]

Worst Case Mode: 802.11n (40MHz)

Worst Case Transfer Rate: MCS 0

Distance of Measurements: 3 meter

Operating Frequency: 5690MHz

Channel: 138

Frequency [MHz]	Analyzer Level [dBm]	Detector	Pol. [H/V]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
5726.58	-88.54	Peak	H	44.10	62.56	68.20	-5.64
5727.70	-90.16	Peak	H	44.10	60.94	68.20	-7.26
5730.85	-91.53	Peak	H	44.10	59.57	68.20	-8.63

Table 6-62. Radiated Restricted Band Measurements at 3 meter – Chain B

NOTES:

- For frequencies above 1GHz, peak emissions are measured using RBW = 1MHz and VBW = 3MHz. Average emissions are measured using RBW = 1MHz, VBW = 3MHz, RMS detector, and 100 trace averages under continuous operation ("Method AD") per KDB 789033.
- The antenna is manipulated through typical positions, polarity and length during the tests. The EUT is manipulated through three orthogonal planes.
- The EUT is supplied with nominal AC voltage and/or a new/fully-recharged battery.
- The spectrum is measured from 9kHz to 40GHz and the worst-case emissions are reported. No significant emissions were found beyond the fifth harmonic for this device.
- Levels at - 135 dBm represent the analyzer noise floor and signify that no emission was detected.
- Above 960MHz the limit is 500 μV/m (54dBμ/m) at 3 meters radiated for emissions that lie in restricted bands specified in §15.205.

FCC ID: A3LGTP8110		FCC Pt. 15.407 802.11a/n UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1207130946.A3L	Test Dates: 07/16/12 - 07/23/12	EUT Type: Portable Tablet		Page 139 of 163

Radiated Spurious Emission Measurements (Cont'd)

§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]

Worst Case Mode: 802.11a

Worst Case Transfer Rate: 6 Mbps

Distance of Measurements: 3 meter

Operating Frequency: 5180MHz

Channel: 36

Frequency [MHz]	Analyzer Level [dBm]	Detector	Pol. [H/V]	AFCL [dB/m]	Field Strength [dBmV/m]	Limit [dBmV/m]	Margin [dB]
10360.00	-103.01	Peak	H	45.55	49.55	68.20	-18.65
* 15540.00	-135.00	Average	H	52.74	24.74	53.98	-29.24
* 15540.00	-125.00	Peak	H	52.74	34.74	73.98	-39.24
* 20720.00	-135.00	Average	H	44.02	16.02	53.98	-37.96
* 20720.00	-125.00	Peak	H	44.02	26.02	73.98	-47.96
25900.00	-125.00	Peak	H	44.85	26.85	68.20	-41.35

Table 6-63. Radiated Measurements @ 3 meter – Chain A+B

NOTES:

1. All harmonics that do not lie in a restricted band are subject to a peak limit of -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions of 68.2dBμV/m.
2. All emissions that lie in the restricted bands (denoted by a * next to the frequency) specified in §15.205 are below the limit shown in Table 6-28.
3. For frequencies above 1GHz, peak emissions are measured using RBW = 1MHz and VBW = 3MHz. Average emissions are measured using RBW = 1MHz, VBW = 3MHz, RMS detector, and 100 trace averages under continuous operation ("Method AD") per KDB 789033.
4. The antenna is manipulated through typical positions, polarity and length during the tests. The EUT is manipulated through three orthogonal planes.
5. The EUT is supplied with nominal AC voltage and/or a new/fully-recharged battery.
6. The spectrum is measured from 9kHz to 40GHz and the worst-case emissions are reported. No significant emissions were found beyond the fifth harmonic for this device.
7. Levels at - 135 dBm represent the analyzer noise floor and signify that no emission was detected.
8. Above 960MHz the limit is 500 μV/m (54dBμ/m) at 3 meters radiated for emissions that lie in restricted bands specified in §15.205.

FCC ID: A3LGTP8110		FCC Pt. 15.407 802.11a/n UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1207130946.A3L	Test Dates: 07/16/12 - 07/23/12	EUT Type: Portable Tablet		Page 140 of 163

Radiated Spurious Emission Measurements (Cont'd)

§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]

Worst Case Mode: 802.11a

Worst Case Transfer Rate: 6 Mbps

Distance of Measurements: 3 meter

Operating Frequency: 5200MHz

Channel: 40

Frequency [MHz]	Analyzer Level [dBm]	Detector	Pol. [H/V]	AFCL [dB/m]	Field Strength [dBmV/m]	Limit [dBmV/m]	Margin [dB]
10400.00	-104.07	Peak	H	45.64	48.57	68.20	-19.63
* 15600.00	-135.00	Average	H	52.93	24.93	53.98	-29.05
* 15600.00	-125.00	Peak	H	52.93	34.93	73.98	-39.05
* 20800.00	-135.00	Average	H	44.00	16.00	53.98	-37.98
* 20800.00	-125.00	Peak	H	44.00	26.00	73.98	-47.98
26000.00	-125.00	Peak	H	44.88	26.88	68.20	-41.32

Table 6-64. Radiated Measurements @ 3 meter – Chain A+B

NOTES:

- All harmonics that do not lie in a restricted band are subject to a peak limit of -27dBm/MHz (68.2dB μ V/m). At a distance of 3 meters, the field strength limit in dB μ V/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions of 68.2dB μ V/m.
- All emissions that lie in the restricted bands (denoted by a * next to the frequency) specified in §15.205 are below the limit shown in Table 6-28.
- For frequencies above 1GHz, peak emissions are measured using RBW = 1MHz and VBW = 3MHz. Average emissions are measured using RBW = 1MHz, VBW = 3MHz, RMS detector, and 100 trace averages under continuous operation ("Method AD") per KDB 789033.
- The antenna is manipulated through typical positions, polarity and length during the tests. The EUT is manipulated through three orthogonal planes.
- The EUT is supplied with nominal AC voltage and/or a new/fully-recharged battery.
- The spectrum is measured from 9kHz to 40GHz and the worst-case emissions are reported. No significant emissions were found beyond the fifth harmonic for this device.
- Levels at -135 dBm represent the analyzer noise floor and signify that no emission was detected.
- Above 960MHz the limit is 500 μ V/m (54dB μ V/m) at 3 meters radiated for emissions that lie in restricted bands specified in §15.205.

FCC ID: A3LGTP8110		FCC Pt. 15.407 802.11a/n UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1207130946.A3L	Test Dates: 07/16/12 - 07/23/12	EUT Type: Portable Tablet		Page 141 of 163

Radiated Spurious Emission Measurements (Cont'd)

§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]

Worst Case Mode: 802.11a

Worst Case Transfer Rate: 6 Mbps

Distance of Measurements: 3 meter

Operating Frequency: 5240MHz

Channel: 48

Frequency [MHz]	Analyzer Level [dBm]	Detector	Pol. [H/V]	AFCL [dB/m]	Field Strength [dBmV/m]	Limit [dBmV/m]	Margin [dB]
10480.00	-103.11	Peak	H	45.81	49.71	68.20	-18.49
* 15720.00	-135.00	Average	H	53.30	25.30	53.98	-28.68
* 15720.00	-125.00	Peak	H	53.30	35.30	73.98	-38.68
* 20960.00	-135.00	Average	H	43.99	15.99	53.98	-37.99
* 20960.00	-125.00	Peak	H	43.99	25.99	73.98	-47.99
26200.00	-125.00	Peak	H	44.82	26.82	68.20	-41.38

Table 6-65. Radiated Measurements @ 3 meter – Chain A+B

NOTES:

- All harmonics that do not lie in a restricted band are subject to a peak limit of -27dBm/MHz (68.2dBμV/m). At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions of 68.2dBμV/m.
- All emissions that lie in the restricted bands (denoted by a * next to the frequency) specified in §15.205 are below the limit shown in Table 6-28.
- For frequencies above 1GHz, peak emissions are measured using RBW = 1MHz and VBW = 3MHz. Average emissions are measured using RBW = 1MHz, VBW = 3MHz, RMS detector, and 100 trace averages under continuous operation ("Method AD") per KDB 789033.
- The antenna is manipulated through typical positions, polarity and length during the tests. The EUT is manipulated through three orthogonal planes.
- The EUT is supplied with nominal AC voltage and/or a new/fully-recharged battery.
- The spectrum is measured from 9kHz to 40GHz and the worst-case emissions are reported. No significant emissions were found beyond the fifth harmonic for this device.
- Levels at - 135 dBm represent the analyzer noise floor and signify that no emission was detected.
- Above 960MHz the limit is 500 μV/m (54dBμV/m) at 3 meters radiated for emissions that lie in restricted bands specified in §15.205.

FCC ID: A3LGTP8110		FCC Pt. 15.407 802.11a/n UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1207130946.A3L	Test Dates: 07/16/12 - 07/23/12	EUT Type: Portable Tablet		Page 142 of 163

Radiated Spurious Emission Measurements (Cont'd)

§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]

Worst Case Mode: 802.11a

Worst Case Transfer Rate: 6 Mbps

Distance of Measurements: 3 meter

Operating Frequency: 5260MHz

Channel: 52

Frequency [MHz]	Analyzer Level [dBm]	Detector	Pol. [H/V]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
10520.00	-103.92	Peak	H	45.91	48.99	68.20	-19.21
* 15780.00	-135.00	Average	H	53.53	25.53	53.98	-28.45
* 15780.00	-125.00	Peak	H	53.53	35.53	73.98	-38.45
* 21040.00	-135.00	Average	H	44.01	16.01	53.98	-37.97
* 21040.00	-125.00	Peak	H	44.01	26.01	73.98	-47.97
26300.00	-125.00	Peak	H	44.87	26.87	68.20	-41.33

Table 6-66. Radiated Measurements @ 3 meter – Chain A+B

NOTES:

1. All harmonics that do not lie in a restricted band are subject to a peak limit of -27dBm/MHz (68.2dBμV/m). At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions of 68.2dBμV/m.
2. All emissions that lie in the restricted bands (denoted by a * next to the frequency) specified in §15.205 are below the limit shown in Table 6-28.
3. For frequencies above 1GHz, peak emissions are measured using RBW = 1MHz and VBW = 3MHz. Average emissions are measured using RBW = 1MHz, VBW = 3MHz, RMS detector, and 100 trace averages under continuous operation ("Method AD") per KDB 789033.
4. The antenna is manipulated through typical positions, polarity and length during the tests. The EUT is manipulated through three orthogonal planes.
5. The EUT is supplied with nominal AC voltage and/or a new/fully-recharged battery.
6. The spectrum is measured from 9kHz to 40GHz and the worst-case emissions are reported. No significant emissions were found beyond the fifth harmonic for this device.
7. Levels at - 135 dBm represent the analyzer noise floor and signify that no emission was detected.
8. Above 960MHz the limit is 500 μV/m (54dBμV/m) at 3 meters radiated for emissions that lie in restricted bands specified in §15.205.

FCC ID: A3LGTP8110		FCC Pt. 15.407 802.11a/n UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1207130946.A3L	Test Dates: 07/16/12 - 07/23/12	EUT Type: Portable Tablet		Page 143 of 163

Radiated Spurious Emission Measurements (Cont'd)

§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]

Worst Case Mode: 802.11a

Worst Case Transfer Rate: 6 Mbps

Distance of Measurements: 3 meter

Operating Frequency: 5280MHz

Channel: 56

Frequency [MHz]	Analyzer Level [dBm]	Detector	Pol. [H/V]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
10560.00	-103.89	Peak	H	46.01	49.12	68.20	-19.08
* 15840.00	-135.00	Average	H	53.79	25.79	53.98	-28.19
* 15840.00	-125.00	Peak	H	53.79	35.79	73.98	-38.19
* 21120.00	-135.00	Average	H	44.00	16.00	53.98	-37.98
* 21120.00	-125.00	Peak	H	44.00	26.00	73.98	-47.98
26400.00	-125.00	Peak	H	44.81	26.81	68.20	-41.39

Table 6-67. Radiated Measurements @ 3 meter – Chain A+B

NOTES:

- All harmonics that do not lie in a restricted band are subject to a peak limit of -27dBm/MHz (68.2dBμV/m). At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions of 68.2dBμV/m.
- All emissions that lie in the restricted bands (denoted by a * next to the frequency) specified in §15.205 are below the limit shown in Table 6-28.
- For frequencies above 1GHz, peak emissions are measured using RBW = 1MHz and VBW = 3MHz. Average emissions are measured using RBW = 1MHz, VBW = 3MHz, RMS detector, and 100 trace averages under continuous operation ("Method AD") per KDB 789033.
- The antenna is manipulated through typical positions, polarity and length during the tests. The EUT is manipulated through three orthogonal planes.
- The EUT is supplied with nominal AC voltage and/or a new/fully-recharged battery.
- The spectrum is measured from 9kHz to 40GHz and the worst-case emissions are reported. No significant emissions were found beyond the fifth harmonic for this device.
- Levels at -135 dBm represent the analyzer noise floor and signify that no emission was detected.
- Above 960MHz the limit is 500 μV/m (54dBμ/m) at 3 meters radiated for emissions that lie in restricted bands specified in §15.205.

FCC ID: A3LGTP8110		FCC Pt. 15.407 802.11a/n UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1207130946.A3L	Test Dates: 07/16/12 - 07/23/12	EUT Type: Portable Tablet		Page 144 of 163

Radiated Spurious Emission Measurements (Cont'd)

§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]

Worst Case Mode: 802.11a

Worst Case Transfer Rate: 6 Mbps

Distance of Measurements: 3 meter

Operating Frequency: 5320MHz

Channel: 64

	Frequency [MHz]	Analyzer Level [dBm]	Detector	Pol. [H/V]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
*	10640.00	-113.74	Average	H	46.22	39.48	53.98	-14.50
*	10640.00	-103.65	Peak	H	46.22	49.57	73.98	-24.41
*	15960.00	-135.00	Average	H	55.98	27.98	53.98	-26.00
*	15960.00	-125.00	Peak	H	55.98	37.98	73.98	-36.00
*	21280.00	-135.00	Average	H	44.02	16.02	53.98	-37.96
*	21280.00	-125.00	Peak	H	44.02	26.02	73.98	-47.96
	26600.00	-125.00	Peak	H	44.70	26.70	68.20	-41.50

Table 6-68. Radiated Measurements @ 3 meter – Chain A+B

NOTES:

- All harmonics that do not lie in a restricted band are subject to a peak limit of -27dBm/MHz (68.2dBμV/m). At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions of 68.2dBμV/m.
- All emissions that lie in the restricted bands (denoted by a * next to the frequency) specified in §15.205 are below the limit shown in Table 6-28.
- For frequencies above 1GHz, peak emissions are measured using RBW = 1MHz and VBW = 3MHz. Average emissions are measured using RBW = 1MHz, VBW = 3MHz, RMS detector, and 100 trace averages under continuous operation ("Method AD") per KDB 789033
- The antenna is manipulated through typical positions, polarity and length during the tests. The EUT is manipulated through three orthogonal planes.
- The EUT is supplied with nominal AC voltage and/or a new/fully-recharged battery.
- The spectrum is measured from 9kHz to 40GHz and the worst-case emissions are reported. No significant emissions were found beyond the fifth harmonic for this device.
- Levels at -135 dBm represent the analyzer noise floor and signify that no emission was detected.
- Above 960MHz the limit is 500 μV/m (54dBμV/m) at 3 meters radiated for emissions that lie in restricted bands specified in §15.205.

FCC ID: A3LGTP8110		FCC Pt. 15.407 802.11a/n UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1207130946.A3L	Test Dates: 07/16/12 - 07/23/12	EUT Type: Portable Tablet		Page 145 of 163

Radiated Spurious Emission Measurements (Cont'd)

§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]

Worst Case Mode: 802.11a

Worst Case Transfer Rate: 6 Mbps

Distance of Measurements: 3 meter

Operating Frequency: 5500MHz

Channel: 100

	Frequency [MHz]	Analyzer Level [dBm]	Detector	Pol. [H/V]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
*	11000.00	-110.93	Average	H	46.72	42.79	53.98	-11.19
*	11000.00	-103.10	Peak	H	46.72	50.62	73.98	-23.36
	16500.00	-125.00	Peak	H	54.95	36.95	68.20	-31.25
	22000.00	-125.00	Peak	H	44.30	26.30	68.20	-41.90
	27500.00	-125.00	Peak	H	44.10	26.10	68.20	-42.10

Table 6-69. Radiated Measurements @ 3 meter – Chain A+B

NOTES:

1. All harmonics that do not lie in a restricted band are subject to a peak limit of -27dBm/MHz (68.2dBμV/m). At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions of 68.2dBμV/m.
2. All emissions that lie in the restricted bands (denoted by a * next to the frequency) specified in §15.205 are below the limit shown in Table 6-28.
3. For frequencies above 1GHz, peak emissions are measured using RBW = 1MHz and VBW = 3MHz. Average emissions are measured using RBW = 1MHz, VBW = 3MHz, RMS detector, and 100 trace averages under continuous operation ("Method AD") per KDB 789033.
4. The antenna is manipulated through typical positions, polarity and length during the tests. The EUT is manipulated through three orthogonal planes.
5. The EUT is supplied with nominal AC voltage and/or a new/fully-recharged battery.
6. The spectrum is measured from 9kHz to 40GHz and the worst-case emissions are reported. No significant emissions were found beyond the fifth harmonic for this device.
7. Levels at - 135 dBm represent the analyzer noise floor and signify that no emission was detected.
8. Above 960MHz the limit is 500 μV/m (54dBμ/m) at 3 meters radiated for emissions that lie in restricted bands specified in §15.205.

FCC ID: A3LGTP8110		FCC Pt. 15.407 802.11a/n UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1207130946.A3L	Test Dates: 07/16/12 - 07/23/12	EUT Type: Portable Tablet		Page 146 of 163

Radiated Spurious Emission Measurements (Cont'd)

§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]

Worst Case Mode: 802.11a

Worst Case Transfer Rate: 6 Mbps

Distance of Measurements: 3 meter

Operating Frequency: 5580MHz

Channel: 116

	Frequency [MHz]	Analyzer Level [dBm]	Detector	Pol. [H/V]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
*	11160.00	-112.86	Average	H	49.14	43.28	53.98	-10.70
*	11160.00	-103.40	Peak	H	49.14	52.74	73.98	-21.24
	16740.00	-125.00	Peak	H	54.31	36.31	68.20	-31.89
*	22320.00	-135.00	Average	H	44.40	16.40	53.98	-37.58
*	22320.00	-125.00	Peak	H	44.40	26.40	73.98	-47.58
	27900.00	-125.00	Peak	H	43.94	25.94	68.20	-42.26

Table 6-70. Radiated Measurements @ 3 meter – Chain A+B

NOTES:

- All harmonics that do not lie in a restricted band are subject to a peak limit of -27dBm/MHz (68.2dBμV/m). At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions of 68.2dBμV/m.
- All emissions that lie in the restricted bands (denoted by a * next to the frequency) specified in §15.205 are below the limit shown in Table 6-28.
- For frequencies above 1GHz, peak emissions are measured using RBW = 1MHz and VBW = 3MHz. Average emissions are measured using RBW = 1MHz, VBW = 3MHz, RMS detector, and 100 trace averages under continuous operation ("Method AD") per KDB 789033.
- The antenna is manipulated through typical positions, polarity and length during the tests. The EUT is manipulated through three orthogonal planes.
- The EUT is supplied with nominal AC voltage and/or a new/fully-recharged battery.
- The spectrum is measured from 9kHz to 40GHz and the worst-case emissions are reported. No significant emissions were found beyond the fifth harmonic for this device.
- Levels at -135 dBm represent the analyzer noise floor and signify that no emission was detected.
- Above 960MHz the limit is 500 μV/m (54dBμ/m) at 3 meters radiated for emissions that lie in restricted bands specified in §15.205.

FCC ID: A3LGTP8110		FCC Pt. 15.407 802.11a/n UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1207130946.A3L	Test Dates: 07/16/12 - 07/23/12	EUT Type: Portable Tablet		Page 147 of 163

Radiated Spurious Emission Measurements (Cont'd)

§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]

Worst Case Mode: 802.11a

Worst Case Transfer Rate: 6 Mbps

Distance of Measurements: 3 meter

Operating Frequency: 5700MHz

Channel: 140

	Frequency [MHz]	Analyzer Level [dBm]	Detector	Pol. [H/V]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
*	11400.00	-114.99	Average	H	47.30	39.32	53.98	-14.66
*	11400.00	-105.22	Peak	H	47.30	49.09	73.98	-24.89
	17100.00	-125.00	Peak	H	53.08	35.08	68.20	-33.12
*	22800.00	-135.00	Average	H	44.45	16.45	53.98	-37.53
*	22800.00	-125.00	Peak	H	44.45	26.45	73.98	-47.53
	28500.00	-125.00	Peak	H	43.63	25.63	68.20	-42.57

Table 6-71. Radiated Measurements @ 3 meter – Chain A+B

NOTES:

1. All harmonics that do not lie in a restricted band are subject to a peak limit of -27dBm/MHz (68.2dBμV/m). At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions of 68.2dBμV/m.
2. All emissions that lie in the restricted bands (denoted by a * next to the frequency) specified in §15.205 are below the limit shown in Table 6-28.
3. For frequencies above 1GHz, peak emissions are measured using RBW = 1MHz and VBW = 3MHz. Average emissions are measured using RBW = 1MHz, VBW = 3MHz, RMS detector, and 100 trace averages under continuous operation ("Method AD") per KDB 789033.
4. The antenna is manipulated through typical positions, polarity and length during the tests. The EUT is manipulated through three orthogonal planes.
5. The EUT is supplied with nominal AC voltage and/or a new/fully-recharged battery.
6. The spectrum is measured from 9kHz to 40GHz and the worst-case emissions are reported. No significant emissions were found beyond the fifth harmonic for this device.
7. Levels at - 135 dBm represent the analyzer noise floor and signify that no emission was detected.
8. Above 960MHz the limit is 500 μV/m (54dBμV/m) at 3 meters radiated for emissions that lie in restricted bands specified in §15.205.

FCC ID: A3LGTP8110		FCC Pt. 15.407 802.11a/n UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1207130946.A3L	Test Dates: 07/16/12 - 07/23/12	EUT Type: Portable Tablet		Page 148 of 163

6.12 Radiated Measurements (20MHz BW) – Chain A+B

§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]

Worst Case Mode: 802.11a

Worst Case Transfer Rate: 6 Mbps

Distance of Measurements: 3 meter

Operating Frequency: 5180MHz

Channel: 36

Frequency [MHz]	Analyzer Level [dBm]	Detector	Pol. [H/V]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
5105.20	-102.47	Average	H	39.21	43.74	53.98	-10.24
5105.20	-96.53	Peak	H	39.21	49.68	73.98	-24.30
5120.83	-100.59	Average	H	39.23	45.65	53.98	-8.33
5120.83	-94.27	Peak	H	39.23	51.97	73.98	-22.01
5150.00	-100.31	Average	H	39.27	45.96	53.98	-8.02
5150.00	-88.17	Peak	H	39.27	58.10	73.98	-15.88

Table 6-72. Radiated Restricted Band Measurements at 3 meter (4.5 – 5.15GHz) – Chain A+B

NOTES:

- For frequencies above 1GHz, peak emissions are measured using RBW = 1MHz and VBW = 3MHz. Average emissions are measured using RBW = 1MHz, VBW = 3MHz, RMS detector, and 100 trace averages under continuous operation ("Method AD") per KDB 789033.
- The antenna is manipulated through typical positions, polarity and length during the tests. The EUT is manipulated through three orthogonal planes.
- The EUT is supplied with nominal AC voltage and/or a new/fully-recharged battery.
- The spectrum is measured from 9kHz to 40GHz and the worst-case emissions are reported. No significant emissions were found beyond the fifth harmonic for this device.
- Levels at - 135 dBm represent the analyzer noise floor and signify that no emission was detected.
- Above 960MHz the limit is 500 μV/m (54dBμ/m) at 3 meters radiated for emissions that lie in restricted bands specified in §15.205.

FCC ID: A3LGTP8110		FCC Pt. 15.407 802.11a/n UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1207130946.A3L	Test Dates: 07/16/12 - 07/23/12	EUT Type: Portable Tablet		Page 149 of 163

Radiated Band Edge Measurements (20MHz BW) (Cont'd)

§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]

Worst Case Mode: 802.11a

Worst Case Transfer Rate: 6 Mbps

Distance of Measurements: 3 meter

Operating Frequency: 5320MHz

Channel: 64

Frequency [MHz]	Analyzer Level [dBm]	Detector	Pol. [H/V]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
5350.00	-98.93	Average	H	39.53	47.60	53.98	-6.38
5350.00	-85.77	Peak	H	39.53	60.76	73.98	-13.22
5355.29	-101.43	Average	H	39.54	45.10	53.98	-8.88
5355.29	-86.53	Peak	H	39.54	60.00	73.98	-13.98
5362.69	-103.17	Average	H	39.54	43.38	53.98	-10.60
5362.69	-88.64	Peak	H	39.54	57.91	73.98	-16.07

Table 6-73. Radiated Restricted Band Measurements at 3 meter (5.35 – 5.46GHz, 5.46 – 5.47GHz) – Chain A+B

NOTES:

1. Emissions within 5.35 – 5.46GHz lie in a restricted band and are subject to the radiated emissions limits specified in §15.209. Emission within 5.46 – 5.47GHz are at the lower band edge of UNII Band 3 transmission and are subject to the -27dBm/MHz (68.2dBμV/m) EIRP limit specified in §15.407.
2. For frequencies above 1GHz, peak emissions are measured using RBW = 1MHz and VBW = 3MHz. Average emissions are measured using RBW = 1MHz, VBW = 3MHz, RMS detector, and 100 trace averages under continuous operation ("Method AD") per KDB 789033.
3. The antenna is manipulated through typical positions, polarity and length during the tests. The EUT is manipulated through three orthogonal planes.
4. The EUT is supplied with nominal AC voltage and/or a new/fully-recharged battery.
5. The spectrum is measured from 9kHz to 40GHz and the worst-case emissions are reported. No significant emissions were found beyond the fifth harmonic for this device.
6. Levels at -135 dBm represent the analyzer noise floor and signify that no emission was detected.
7. Above 960MHz the limit is 500 μV/m (54dBμV/m) at 3 meters radiated for emissions that lie in restricted band specified in §15.205.

FCC ID: A3LGP8110		FCC Pt. 15.407 802.11a/n UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1207130946.A3L	Test Dates: 07/16/12 - 07/23/12	EUT Type: Portable Tablet		Page 150 of 163

Radiated Band Edge Measurements (20MHz BW) (Cont'd)

§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]

Worst Case Mode: 802.11a

Worst Case Transfer Rate: 6 Mbps

Distance of Measurements: 3 meter

Operating Frequency: 5500MHz

Channel: 100

Frequency [MHz]	Analyzer Level [dBm]	Detector	Pol. [H/V]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
5456.65	-100.78	Average	H	39.67	45.89	53.98	-8.09
5456.65	-88.65	Peak	H	39.67	58.02	73.98	-15.96
5460.00	-96.87	Average	H	39.67	49.80	53.98	-4.18
5460.00	-91.10	Peak	H	39.67	55.57	73.98	-18.41
5468.96	-81.59	Peak	H	39.68	65.09	68.20	-3.11

Table 6-74. Radiated Restricted Band Measurements at 3 meter (5.35 – 5.46GHz, 5.46 – 5.47GHz) – Chain A+B

NOTES:

1. Emissions within 5.35 – 5.46GHz lie in a restricted band and are subject to the radiated emissions limits specified in §15.209. Emission within 5.46 – 5.47GHz are at the lower band edge of UNII Band 3 transmission and are subject to the -27dBm/MHz (68.2dBμV/m) EIRP limit specified in §15.407.
2. For frequencies above 1GHz, peak emissions are measured using RBW = 1MHz and VBW = 3MHz. Average emissions are measured using RBW = 1MHz, VBW = 3MHz, RMS detector, and 100 trace averages under continuous operation ("Method AD") per KDB 789033.
3. The antenna is manipulated through typical positions, polarity and length during the tests. The EUT is manipulated through three orthogonal planes.
4. The EUT is supplied with nominal AC voltage and/or a new/fully-recharged battery.
5. The spectrum is measured from 9kHz to 40GHz and the worst-case emissions are reported. No significant emissions were found beyond the fifth harmonic for this device.
6. Levels at -135 dBm represent the analyzer noise floor and signify that no emission was detected.
7. Above 960MHz the limit is 500 μV/m (54dBμV/m) at 3 meters radiated for emissions that lie in restricted bands specified in §15.205.

FCC ID: A3LGTP8110		FCC Pt. 15.407 802.11a/n UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1207130946.A3L	Test Dates: 07/16/12 - 07/23/12	EUT Type: Portable Tablet		Page 151 of 163

Radiated Band Edge Measurements (20MHz BW) (Cont'd)

§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]

Worst Case Mode: 802.11a

Worst Case Transfer Rate: 6 Mbps

Distance of Measurements: 3 meter

Operating Frequency: 5700MHz

Channel: 140

Frequency [MHz]	Analyzer Level [dBm]	Detector	Pol. [H/V]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
5725.00	-81.52	Peak	H	40.18	65.66	68.20	-2.54
5728.00	-80.84	Peak	H	40.18	66.34	68.20	-1.86
5732.45	-82.53	Peak	H	40.19	64.66	68.20	-3.54

Table 6-75. Radiated Restricted Band Measurements at 3 meter – Chain A+B

NOTES:

1. For frequencies above 1GHz, peak emissions are measured using RBW = 1MHz and VBW = 3MHz. Average emissions are measured using RBW = 1MHz, VBW = 3MHz, RMS detector, and 100 trace averages under continuous operation ("Method AD") per KDB 789033.
2. The antenna is manipulated through typical positions, polarity and length during the tests. The EUT is manipulated through three orthogonal planes.
3. The EUT is supplied with nominal AC voltage and/or a new/fully-recharged battery.
4. The spectrum is measured from 9kHz to 40GHz and the worst-case emissions are reported. No significant emissions were found beyond the fifth harmonic for this device.
5. Levels at - 135 dBm represent the analyzer noise floor and signify that no emission was detected.
6. Above 960MHz the limit is 500 μV/m (54dBμ/m) at 3 meters radiated for emissions that lie in restricted bands specified in §15.205.

FCC ID: A3LGTP8110		FCC Pt. 15.407 802.11a/n UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1207130946.A3L	Test Dates: 07/16/12 - 07/23/12	EUT Type: Portable Tablet		Page 152 of 163

6.13 Radiated Measurements (40MHz BW) – Chain A+B

§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]

Worst Case Mode: 802.11n (40MHz)

Worst Case Transfer Rate: MSC 8

Distance of Measurements: 3 meter

Operating Frequency: 5190MHz

Channel: 38

Frequency [MHz]	Analyzer Level [dBm]	Detector	Pol. [H/V]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
5125.30	-106.03	Average	H	42.87	43.84	53.98	-10.13
5125.30	-96.24	Peak	H	42.87	53.63	73.98	-20.34
5137.00	-105.68	Average	H	42.95	44.26	53.98	-9.72
5137.00	-93.54	Peak	H	42.95	56.40	73.98	-17.58
5147.40	-105.16	Average	H	43.01	44.85	53.98	-9.13
5147.40	-90.83	Peak	H	43.01	59.18	73.98	-14.80

Table 6-76. Radiated Restricted Band Measurements at 3 meter (4.5 – 5.15GHz) – Chain A+B

NOTES:

1. For frequencies above 1GHz, peak emissions are measured using RBW = 1MHz and VBW = 3MHz. Average emissions are measured using RBW = 1MHz, VBW = 3MHz, RMS detector, and 100 trace averages under continuous operation ("Method AD") per KDB 789033.
2. The antenna is manipulated through typical positions, polarity and length during the tests. The EUT is manipulated through three orthogonal planes.
3. The EUT is supplied with nominal AC voltage and/or a new/fully-recharged battery.
4. The spectrum is measured from 9kHz to 40GHz and the worst-case emissions are reported. No significant emissions were found beyond the fifth harmonic for this device.
5. Levels at - 135 dBm represent the analyzer noise floor and signify that no emission was detected.
6. Above 960MHz the limit is 500 μV/m (54dBμ/m) at 3 meters radiated for emissions that lie in restricted bands specified in §15.205.

FCC ID: A3LGTP8110		FCC Pt. 15.407 802.11a/n UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1207130946.A3L	Test Dates: 07/16/12 - 07/23/12	EUT Type: Portable Tablet		Page 153 of 163

Radiated Band Edge Measurements (40MHz BW) (Cont'd)

§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]

Worst Case Mode: 802.11n (40MHz)

Worst Case Transfer Rate: MCS 8

Distance of Measurements: 3 meter

Operating Frequency: 5310MHz

Channel: 62

Frequency [MHz]	Analyzer Level [dBm]	Detector	Pol. [H/V]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
5350.00	-102.70	Average	H	43.77	48.08	53.98	-5.90
5350.00	-91.09	Peak	H	43.77	59.69	73.98	-14.29
5357.59	-103.57	Average	H	43.80	47.23	53.98	-6.75
5357.59	-90.30	Peak	H	43.80	60.50	73.98	-13.48
5361.44	-105.39	Average	H	43.82	45.43	53.98	-8.55
5361.44	-93.62	Peak	H	43.82	57.20	73.98	-16.78

Table 6-77. Radiated Restricted Band Measurements at 3 meter (5.35 – 5.46GHz, 5.46 – 5.47GHz) – Chain A+B

NOTES:

1. Emissions within 5.35 – 5.46GHz lie in a restricted band and are subject to the radiated emissions limits specified in §15.209. Emission within 5.46 – 5.47GHz are at the lower band edge of UNII Band 3 transmission and are subject to the -27dBm/MHz (68.2dBμV/m) EIRP limit specified in §15.407.
2. For frequencies above 1GHz, peak emissions are measured using RBW = 1MHz and VBW = 3MHz. Average emissions are measured using RBW = 1MHz, VBW = 3MHz, RMS detector, and 100 trace averages under continuous operation ("Method AD") per KDB 789033.
3. The antenna is manipulated through typical positions, polarity and length during the tests. The EUT is manipulated through three orthogonal planes.
4. The EUT is supplied with nominal AC voltage and/or a new/fully-recharged battery.
5. The spectrum is measured from 9kHz to 40GHz and the worst-case emissions are reported. No significant emissions were found beyond the fifth harmonic for this device.
6. Levels at -135 dBm represent the analyzer noise floor and signify that no emission was detected.
7. Above 960MHz the limit is 500 μV/m (54dBμV/m) at 3 meters radiated for emissions that lie in restricted band specified in §15.205.

FCC ID: A3LGP8110		FCC Pt. 15.407 802.11a/n UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1207130946.A3L	Test Dates: 07/16/12 - 07/23/12	EUT Type: Portable Tablet		Page 154 of 163

Radiated Band Edge Measurements (40MHz BW) (Cont'd)

§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]

Worst Case Mode: 802.11n (40MHz)

Worst Case Transfer Rate: MCS 8

Distance of Measurements: 3 meter

Operating Frequency: 5510MHz

Channel: 102

Frequency [MHz]	Analyzer Level [dBm]	Detector	Pol. [H/V]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
5452.96	-102.94	Average	H	44.04	48.10	53.98	-5.88
5452.96	-91.81	Peak	H	44.04	59.23	73.98	-14.75
5460.00	-102.66	Average	H	44.05	48.39	53.98	-10.13
5460.00	-89.91	Peak	H	44.05	61.14	73.98	-20.34
5469.34	-84.70	Peak	H	44.07	66.37	68.20	-9.72

Table 6-78. Radiated Restricted Band Measurements at 3 meter (5.35 – 5.46GHz, 5.46 – 5.47GHz) – Chain A+B

NOTES:

1. Emissions within 5.35 – 5.46GHz lie in a restricted band and are subject to the radiated emissions limits specified in §15.209. Emission within 5.46 – 5.47GHz are at the lower band edge of UNII Band 3 transmission and are subject to the -27dBm/MHz (68.2dBμV/m) EIRP limit specified in §15.407.
2. For frequencies above 1GHz, peak emissions are measured using RBW = 1MHz and VBW = 3MHz. Average emissions are measured using RBW = 1MHz, VBW = 3MHz, RMS detector, and 100 trace averages under continuous operation ("Method AD") per KDB 789033.
3. The antenna is manipulated through typical positions, polarity and length during the tests. The EUT is manipulated through three orthogonal planes.
4. The EUT is supplied with nominal AC voltage and/or a new/fully-recharged battery.
5. The spectrum is measured from 9kHz to 40GHz and the worst-case emissions are reported. No significant emissions were found beyond the fifth harmonic for this device.
6. Levels at -135 dBm represent the analyzer noise floor and signify that no emission was detected.
7. Above 960MHz the limit is 500 μV/m (54dBμV/m) at 3 meters radiated for emissions that lie in restricted bands specified in §15.205.

FCC ID: A3LGTP8110		FCC Pt. 15.407 802.11a/n UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1207130946.A3L	Test Dates: 07/16/12 - 07/23/12	EUT Type: Portable Tablet		Page 155 of 163

Radiated Band Edge Measurements (40MHz BW) (Cont'd)

§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]

Worst Case Mode: 802.11n (40MHz)

Worst Case Transfer Rate: MCS 8

Distance of Measurements: 3 meter

Operating Frequency: 5690MHz

Channel: 138

Frequency [MHz]	Analyzer Level [dBm]	Detector	Pol. [H/V]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
5725.00	-88.27	Peak	H	44.10	62.83	68.20	-5.37
5726.88	-87.48	Peak	H	44.10	63.62	68.20	-4.58
5730.63	-90.96	Peak	H	44.10	60.14	68.20	-8.06

Table 6-79. Radiated Restricted Band Measurements at 3 meter – Chain A+B

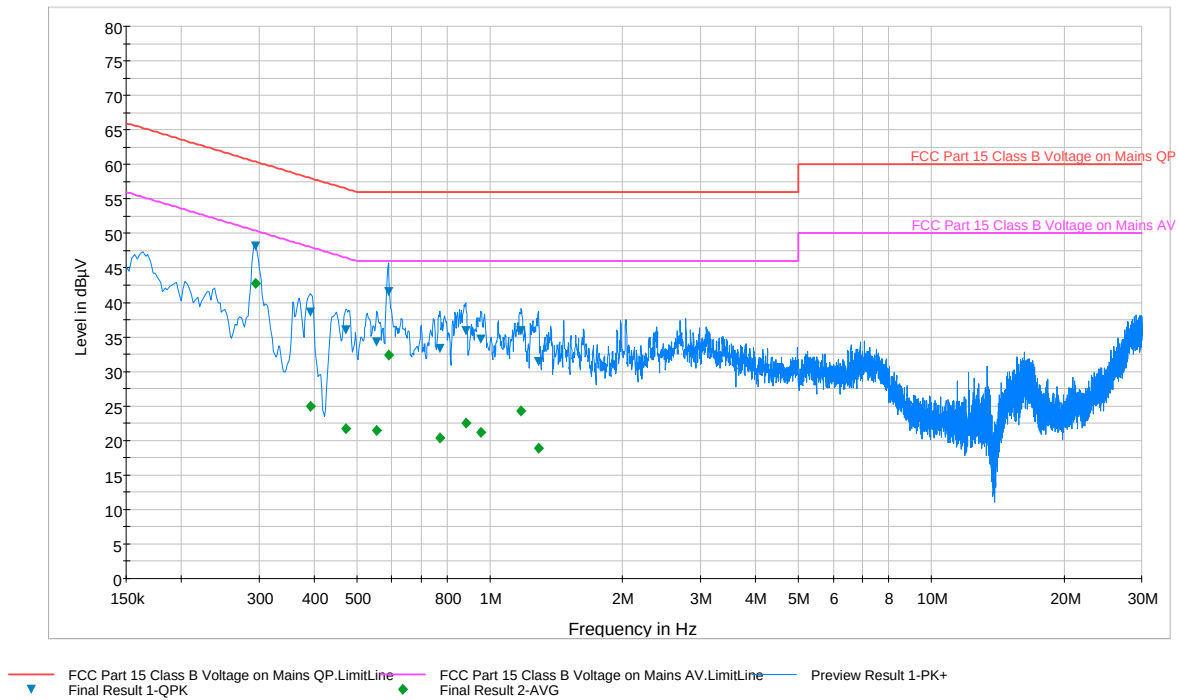
NOTES:

- For frequencies above 1GHz, peak emissions are measured using RBW = 1MHz and VBW = 3MHz. Average emissions are measured using RBW = 1MHz, VBW = 3MHz, RMS detector, and 100 trace averages under continuous operation ("Method AD") per KDB 789033.
- The antenna is manipulated through typical positions, polarity and length during the tests. The EUT is manipulated through three orthogonal planes.
- The EUT is supplied with nominal AC voltage and/or a new/fully-recharged battery.
- The spectrum is measured from 9kHz to 40GHz and the worst-case emissions are reported. No significant emissions were found beyond the fifth harmonic for this device.
- Levels at - 135 dBm represent the analyzer noise floor and signify that no emission was detected.
- Above 960MHz the limit is 500 μV/m (54dBμ/m) at 3 meters radiated for emissions that lie in restricted bands specified in §15.205.

FCC ID: A3LGTP8110		FCC Pt. 15.407 802.11a/n UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1207130946.A3L	Test Dates: 07/16/12 - 07/23/12	EUT Type: Portable Tablet		Page 156 of 163

6.14 Line-Conducted Test Data

§15.207; RSS-Gen [7.2.2]



Plot 6-151. Line Conducted Plot with 802.11a UNII Band 1 (L1)

Frequency MHz	Line	Corr. dB	QuasiPeak dBµV	Limit dBµV	Margin dB	Average dBµV	Limit dBµV	Margin dB
0.294	L1	0.1	48.10	60.40	12.30	42.80	50.40	7.60
0.393	L1	0.1	38.60	58.00	19.40	24.90	48.00	23.10
0.472	L1	0.1	36.00	56.50	20.50	21.80	46.50	24.70
0.555	L1	0.1	34.20	56.00	21.80	21.50	46.00	24.50
0.589	L1	0.1	41.50	56.00	14.50	32.30	46.00	13.70
0.771	L1	0.1	33.30	56.00	22.70	20.40	46.00	25.60
0.881	L1	0.1	35.80	56.00	20.20	22.60	46.00	23.40
0.953	L1	0.1	34.60	56.00	21.40	21.20	46.00	24.80
1.178	L1	0.2	35.90	56.00	20.10	24.30	46.00	21.70
1.289	L1	0.2	31.40	56.00	24.60	18.90	46.00	27.10

Table 6-80. Line Conducted Data with 802.11a UNII Band 1 (L1)

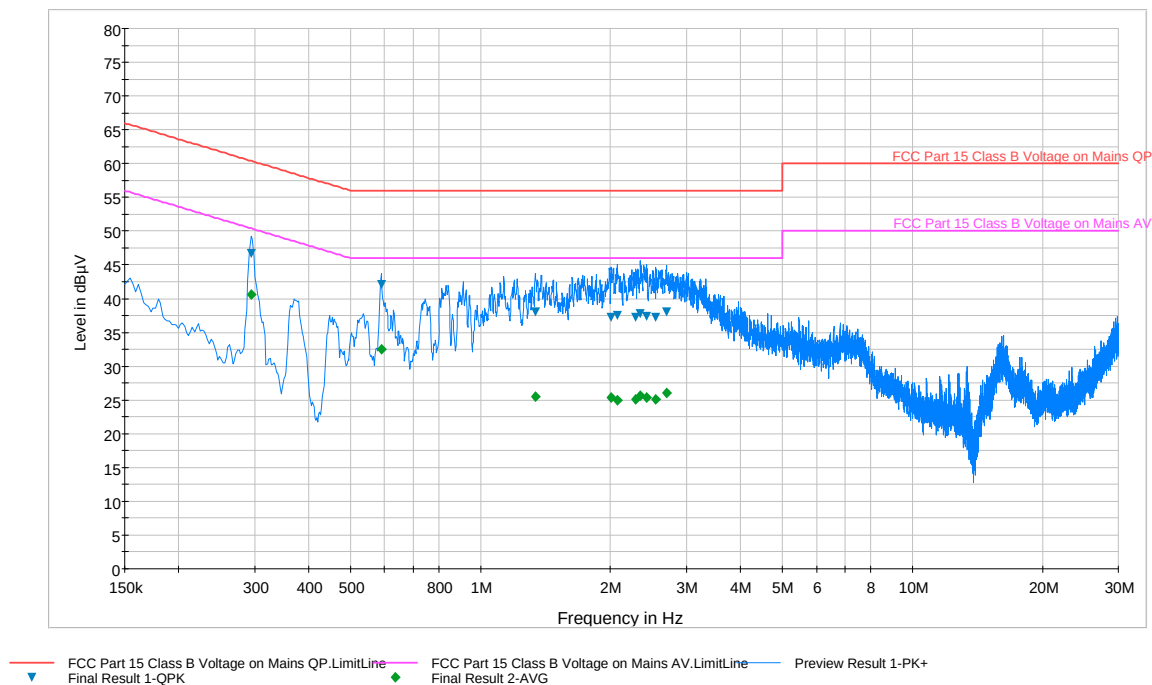
Notes:

- All modes of operation, data rates, and test channels were investigated and the worst-case emissions are reported in 802.11a mode using 6Mbps on Channel 36. The emissions found were not affected by the choice of channel used during testing.
- The limit for Class B device(s) from 150kHz to 30MHz are specified in Section 15.207 of the Title 47 CFR.
- L1 = Phase; N = Neutral
- Corr. (dB) = Cable loss (dB) + LISN insertion factor (dB)
- QP/AV Level (dBµV) = QP/AV Analyzer/Receiver Level (dBµV) + Corr. (dB)
- Margin (dB) = QP/AV Limit (dBµV) - QP/AV Level (dBµV)
- Traces shown in plot are made using a peak detector.
- Deviations to the Specifications: None.

FCC ID: A3LGTP8110	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n UNII MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1207130946.A3L	Test Dates: 07/16/12 - 07/23/12	EUT Type: Portable Tablet		Page 157 of 163

Line-Conducted Test Data (Cont'd)

§15.207; RSS-Gen [7.2.2]



Plot 6-152. Line Conducted Plot with 802.11a UNII Band 1 (N)

Frequency MHz	Line	Corr. dB	QuasiPeak dBμV	Limit dBμV	Margin dB	Average dBμV	Limit dBμV	Margin dB
0.294	N	0.2	46.60	60.40	13.80	40.60	50.40	9.80
0.589	N	0.1	42.10	56.00	13.90	32.50	46.00	13.50
1.340	N	0.2	38.00	56.00	18.00	25.50	46.00	20.50
2.006	N	0.2	37.20	56.00	18.80	25.30	46.00	20.70
2.078	N	0.2	37.40	56.00	18.60	25.00	46.00	21.00
2.292	N	0.2	37.20	56.00	18.80	25.10	46.00	20.90
2.346	N	0.2	37.70	56.00	18.30	25.60	46.00	20.40
2.423	N	0.2	37.30	56.00	18.70	25.40	46.00	20.60
2.551	N	0.2	37.30	56.00	18.70	25.10	46.00	20.90
2.697	N	0.2	38.10	56.00	17.90	26.00	46.00	20.00

Table 6-81. Line Conducted Data with 802.11a UNII Band 1 (N)

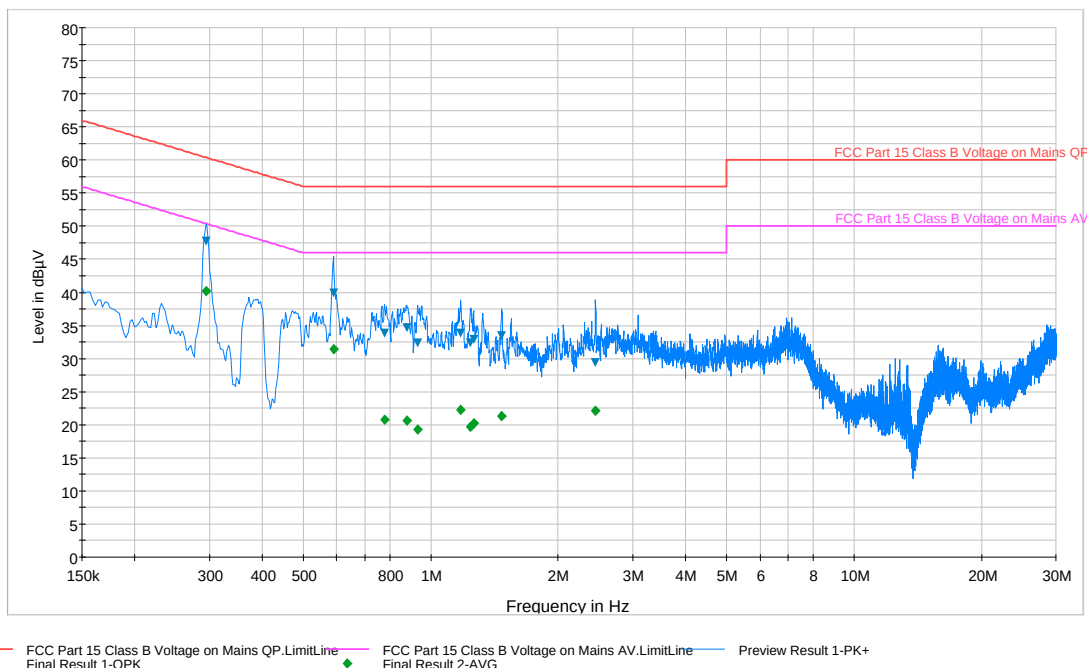
Notes:

1. All modes of operation, data rates, and test channels were investigated and the worst-case emissions are reported in 802.11a mode using 6Mbps on Channel 36. The emissions found were not affected by the choice of channel used during testing.
2. The limit for Class B device(s) from 150kHz to 30MHz are specified in Section 15.207 of the Title 47 CFR.
3. L1 = Phase; N = Neutral
4. Corr. (dB) = Cable loss (dB) + LISN insertion factor (dB)
5. QP/AV Level (dBμV) = QP/AV Analyzer/Receiver Level (dBμV) + Corr. (dB)
6. Margin (dB) = QP/AVLimit (dBμV) - QP/AV Level (dBμV)
7. Traces shown in plot are made using a peak detector.
8. Deviations to the Specifications: None.

FCC ID: A3LGTP8110	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n UNII MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1207130946.A3L	Test Dates: 07/16/12 - 07/23/12	EUT Type: Portable Tablet		Page 158 of 163

Line-Conducted Test Data (Cont'd)

§15.207; RSS-Gen [7.2.2]



Plot 6-153. Line Conducted Plot with 802.11a UNII Band 2 (L1)

Frequency MHz	Line	Corr. dB	QuasiPeak dBμV	Limit dBμV	Margin dB	Average dBμV	Limit dBμV	Margin dB
0.294	L1	0.1	47.80	60.40	12.60	40.20	50.40	10.20
0.589	L1	0.1	39.90	56.00	16.10	31.40	46.00	14.60
0.780	L1	0.1	33.90	56.00	22.10	20.80	46.00	25.20
0.877	L1	0.1	34.60	56.00	21.40	20.70	46.00	25.30
0.931	L1	0.1	32.40	56.00	23.60	19.30	46.00	26.70
1.178	L1	0.2	33.90	56.00	22.10	22.20	46.00	23.80
1.241	L1	0.2	32.30	56.00	23.70	19.70	46.00	26.30
1.264	L1	0.2	32.90	56.00	23.10	20.30	46.00	25.70
1.471	L1	0.2	33.40	56.00	22.60	21.40	46.00	24.60
2.452	L1	0.2	29.40	56.00	26.60	22.10	46.00	23.90

Table 6-82. Line Conducted Data with 802.11a UNII Band 2 (L1)

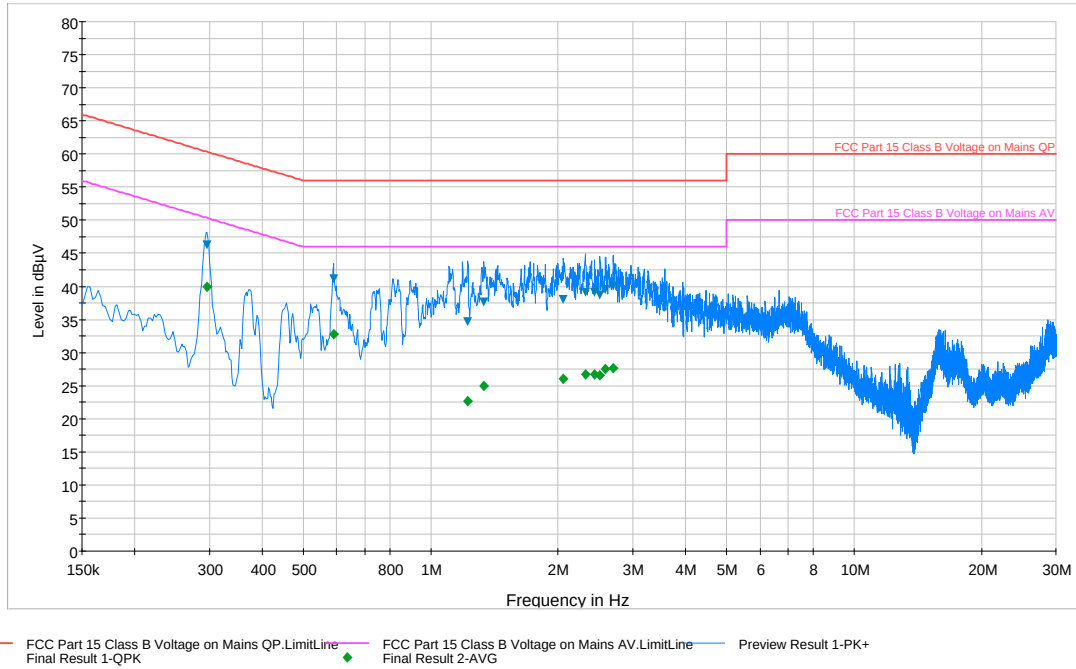
Notes:

- All modes of operation, data rates, and test channels were investigated and the worst-case emissions are reported in 802.11a mode using 6Mbps on Channel 52. The emissions found were not affected by the choice of channel used during testing.
- The limit for Class B device(s) from 150kHz to 30MHz are specified in Section 15.207 of the Title 47 CFR.
- L1 = Phase; N = Neutral
- Corr. (dB) = Cable loss (dB) + LISN insertion factor (dB)
- QP/AV Level (dBμV) = QP/AV Analyzer/Receiver Level (dBμV) + Corr. (dB)
- Margin (dB) = QP/AVLimit (dBμV) - QP/AV Level (dBμV)
- Traces shown in plot are made using a peak detector.
- Deviations to the Specifications: None.

FCC ID: A3LGP8110	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n UNII MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1207130946.A3L	Test Dates: 07/16/12 - 07/23/12	EUT Type: Portable Tablet		Page 159 of 163

Line-Conducted Test Data (Cont'd)

§15.207; RSS-Gen [7.2.2]



Plot 6-154. Line Conducted Plot with 802.11a UNII Band 2 (N)

Frequency MHz	Line	Corr. dB	QuasiPeak dBμV	Limit dBμV	Margin dB	Average dBμV	Limit dBμV	Margin dB
0.296	N	0.2	46.20	60.30	14.10	40.00	50.30	10.30
0.589	N	0.1	41.20	56.00	14.80	32.80	46.00	13.20
1.223	N	0.2	34.70	56.00	21.30	22.70	46.00	23.30
1.334	N	0.2	37.60	56.00	18.40	25.00	46.00	21.00
2.060	N	0.2	38.10	56.00	17.90	26.10	46.00	19.90
2.317	N	0.2	39.20	56.00	16.80	26.60	46.00	19.40
2.434	N	0.2	39.10	56.00	16.90	26.70	46.00	19.30
2.510	N	0.2	38.80	56.00	17.20	26.50	46.00	19.50
2.587	N	0.2	39.50	56.00	16.50	27.60	46.00	18.40
2.702	N	0.2	40.00	56.00	16.00	27.60	46.00	18.40

Table 6-83. Line Conducted Data with 802.11a UNII Band 2 (N)

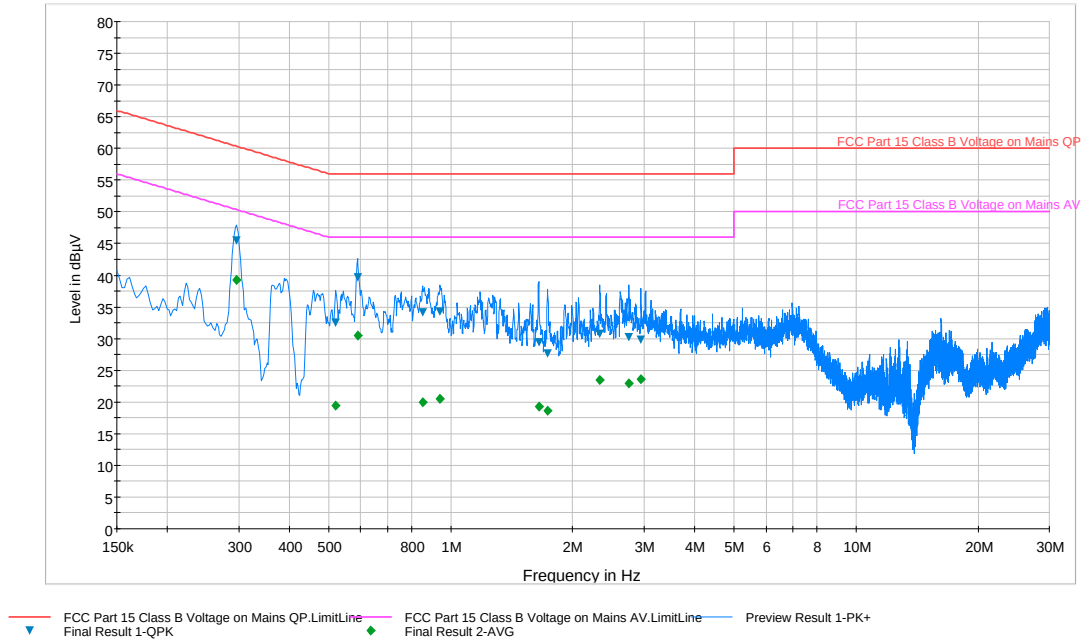
Notes:

1. All modes of operation, data rates, and test channels were investigated and the worst-case emissions are reported in 802.11a mode using 6Mbps on Channel 52. The emissions found were not affected by the choice of channel used during testing.
2. The limit for Class B device(s) from 150kHz to 30MHz are specified in Section 15.207 of the Title 47 CFR.
3. L1 = Phase; N = Neutral
4. Corr. (dB) = Cable loss (dB) + LISN insertion factor (dB)
5. QP/AV Level (dBμV) = QP/AV Analyzer/Receiver Level (dBμV) + Corr. (dB)
6. Margin (dB) = QP/AVLimit (dBμV) - QP/AV Level (dBμV)
7. Traces shown in plot are made using a peak detector.
8. Deviations to the Specifications: None.

FCC ID: A3LGP8110	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n UNII MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1207130946.A3L	Test Dates: 07/16/12 - 07/23/12	EUT Type: Portable Tablet		Page 160 of 163

Line-Conducted Test Data (Cont'd)

§15.207; RSS-Gen [7.2.2]



Plot 6-155. Line Conducted Plot with 802.11a UNII Band 3 (L1)

Frequency MHz	Line	Corr. dB	QuasiPeak dBµV	Limit dBµV	Margin dB	Average dBµV	Limit dBµV	Margin dB
0.296	L1	0.1	45.50	60.30	14.80	39.30	50.30	11.00
0.521	L1	0.1	32.50	56.00	23.50	19.40	46.00	26.60
0.589	L1	0.1	39.60	56.00	16.40	30.50	46.00	15.50
0.852	L1	0.1	34.10	56.00	21.90	19.90	46.00	26.10
0.942	L1	0.1	34.30	56.00	21.70	20.60	46.00	25.40
1.649	L1	0.2	29.40	56.00	26.60	19.30	46.00	26.70
1.734	L1	0.2	27.70	56.00	28.30	18.70	46.00	27.30
2.333	L1	0.2	30.80	56.00	25.20	23.40	46.00	22.60
2.751	L1	0.2	30.30	56.00	25.70	23.00	46.00	23.00
2.945	L1	0.2	29.80	56.00	26.20	23.60	46.00	22.40

Table 6-84. Line Conducted Plot with 802.11a UNII Band 3 (L1)

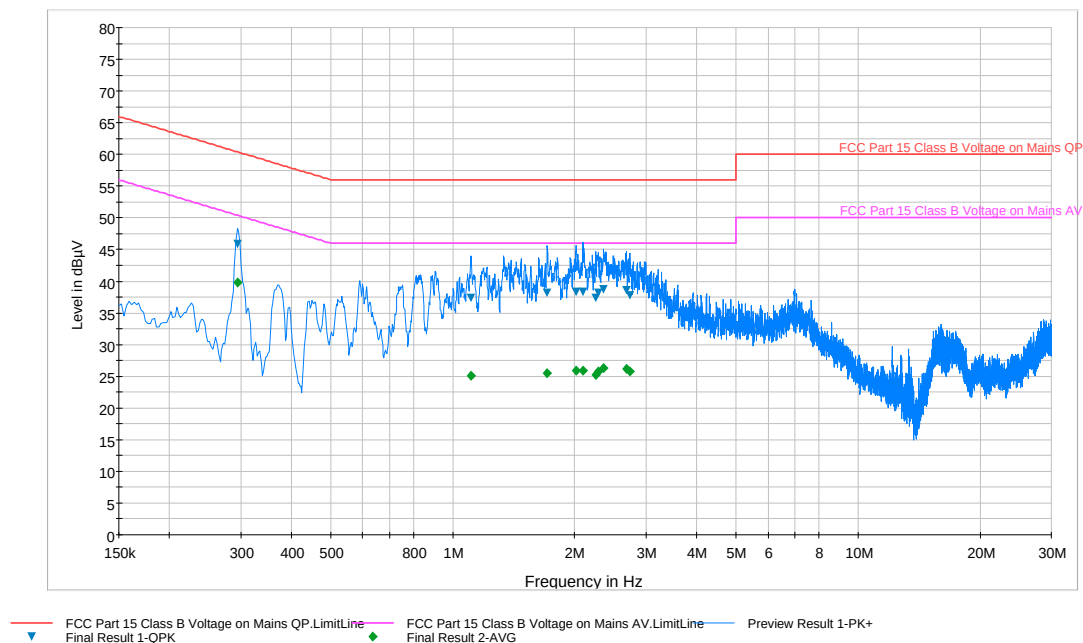
Notes:

- All modes of operation, data rates, and test channels were investigated and the worst-case emissions are reported in 802.11a mode using 6Mbps on Channel 100. The emissions found were not affected by the choice of channel used during testing.
- The limit for Class B device(s) from 150kHz to 30MHz are specified in Section 15.207 of the Title 47 CFR.
- L1 = Phase; N = Neutral
- Corr. (dB) = Cable loss (dB) + LISN insertion factor (dB)
- QP/AV Level (dBµV) = QP/AV Analyzer/Receiver Level (dBµV) + Corr. (dB)
- Margin (dB) = QP/AVLimit (dBµV) - QP/AV Level (dBµV)
- Traces shown in plot are made using a peak detector.
- Deviations to the Specifications: None.

FCC ID: A3LGTP8110	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n UNII MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1207130946.A3L	Test Dates: 07/16/12 - 07/23/12	EUT Type: Portable Tablet		Page 161 of 163

Line-Conducted Test Data (Cont'd)

§15.207; RSS-Gen [7.2.2]



Plot 6-156. Line Conducted Plot with 802.11a UNII Band 3 (N)

Frequency MHz	Line	Corr. dB	QuasiPeak dBμV	Limit dBμV	Margin dB	Average dBμV	Limit dBμV	Margin dB
0.294	N	0.2	45.90	60.40	14.50	39.80	50.40	10.60
1.111	N	0.2	37.30	56.00	18.70	25.10	46.00	20.90
1.712	N	0.2	38.20	56.00	17.80	25.50	46.00	20.50
2.015	N	0.2	38.30	56.00	17.70	25.90	46.00	20.10
2.096	N	0.2	38.30	56.00	17.70	25.90	46.00	20.10
2.254	N	0.2	37.30	56.00	18.70	25.20	46.00	20.80
2.285	N	0.2	38.10	56.00	17.90	25.70	46.00	20.30
2.355	N	0.2	38.70	56.00	17.30	26.40	46.00	19.60
2.684	N	0.2	38.50	56.00	17.50	26.20	46.00	19.80
2.740	N	0.2	37.80	56.00	18.20	25.80	46.00	20.20

Table 6-85. Line Conducted Data with 802.11a UNII Band 3 (N)

Notes:

- All modes of operation, data rates, and test channels were investigated and the worst-case emissions are reported in 802.11a mode using 6Mbps on Channel 100. The emissions found were not affected by the choice of channel used during testing.
- The limit for Class B device(s) from 150kHz to 30MHz are specified in Section 15.207 of the Title 47 CFR.
- L1 = Phase; N = Neutral
- Corr. (dB) = Cable loss (dB) + LISN insertion factor (dB)
- QP/AV Level (dBμV) = QP/AV Analyzer/Receiver Level (dBμV) + Corr. (dB)
- Margin (dB) = QP/AVLimit (dBμV) - QP/AV Level (dBμV)
- Traces shown in plot are made using a peak detector.
- Deviations to the Specifications: None.

FCC ID: A3LGTP8110	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n UNII MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1207130946.A3L	Test Dates: 07/16/12 - 07/23/12	EUT Type: Portable Tablet		Page 162 of 163

7.0 CONCLUSION

The data collected relate only the item(s) tested and show that the **Samsung Portable Tablet FCC ID: A3LGTP8110** is in compliance with Part 15E of the FCC Rules and RSS-210 of the Industry Canada Rules.

FCC ID: A3LGTP8110		FCC Pt. 15.407 802.11a/n UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1207130946.A3L	Test Dates: 07/16/12 - 07/23/12	EUT Type: Portable Tablet		Page 163 of 163