

6.6 Conducted Spurious Emissions

§15.247(d)

Test Overview and Limit

All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at its maximum duty cycle (>98%), at maximum power, and at the appropriate frequencies. All data rates were investigated to determine the worst case configuration. For the following out of band conducted spurious emissions plots, the EUT was investigated in all available data rates for “b”, “g”, “a”, “n”, and “ac” modes. The worst case spurious emissions for the 2.4GHz band were found while transmitting in “b” mode at 1 Mbps and are shown in the plots below. The worst case spurious emissions for the 5.8GHz band were found while transmitting in “a” mode at 6 Mbps and are shown in the plots below.

The limit for out-of-band spurious emissions at the band edge is 30dB below the fundamental emission level, as determined from the in-band power measurement of the DTS channel performed in a 100kHz bandwidth per the procedure in Section 11.1 of KDB 558074 v03r02.

Test Procedure Used

KDB 558074 v03r02 – Section 11.3
KDB 662911 v02r01 – Section E)3)b)

Test Settings

1. Start frequency was set to 30MHz and stop frequency was set to 25GHz for 2.4GHz frequencies and 40GHz for 5GHz frequencies (separated into two plots per channel)
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = Peak
5. Trace mode = max hold
6. Sweep time = auto couple
7. The trace was allowed to stabilize

Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.

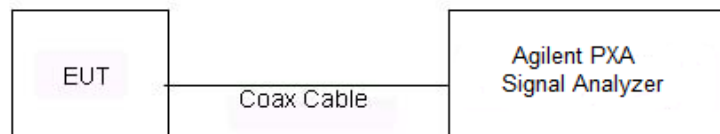


Figure 6-5. Test Instrument & Measurement Setup

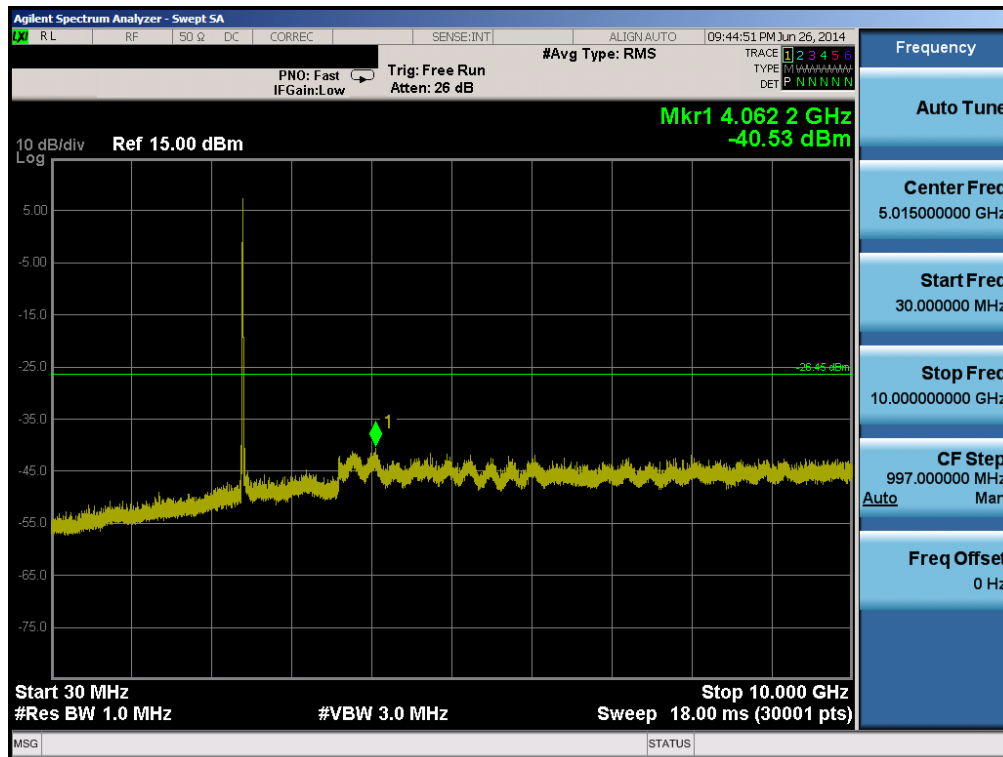
FCC ID: A3LSMT807T		FCC Pt. 15.247 802.11a/b/g/n/ac MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
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Test Notes

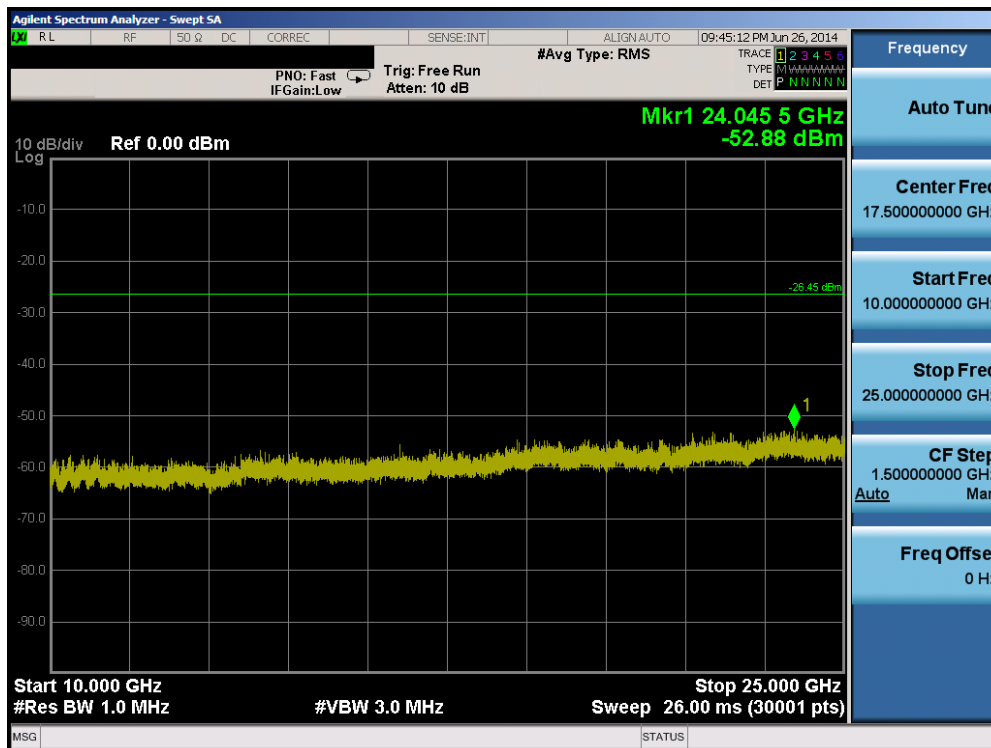
1. RBW was set to 1MHz rather than 100kHz in order to increase the measurement speed.
2. The display line shown in the following plots denotes the limit at 30dB below the fundamental emission level measured in a 100kHz bandwidth. However, since the traces in the following plots are measured with a 1MHz RBW, the display line may not necessarily appear to be 30dB below the level of the fundamental in a 1MHz bandwidth.
3. For plots showing conducted spurious emissions near the limit, the frequencies were investigated with a reduced RBW to ensure that no emissions were present.
4. Per KDB 662911 v02r01 Section E)3)b), the conducted spurious emissions were tested against relative limits determined by the highest 100kHz in-band power level on each individual antenna.

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Antenna-1 Conducted Spurious Emissions

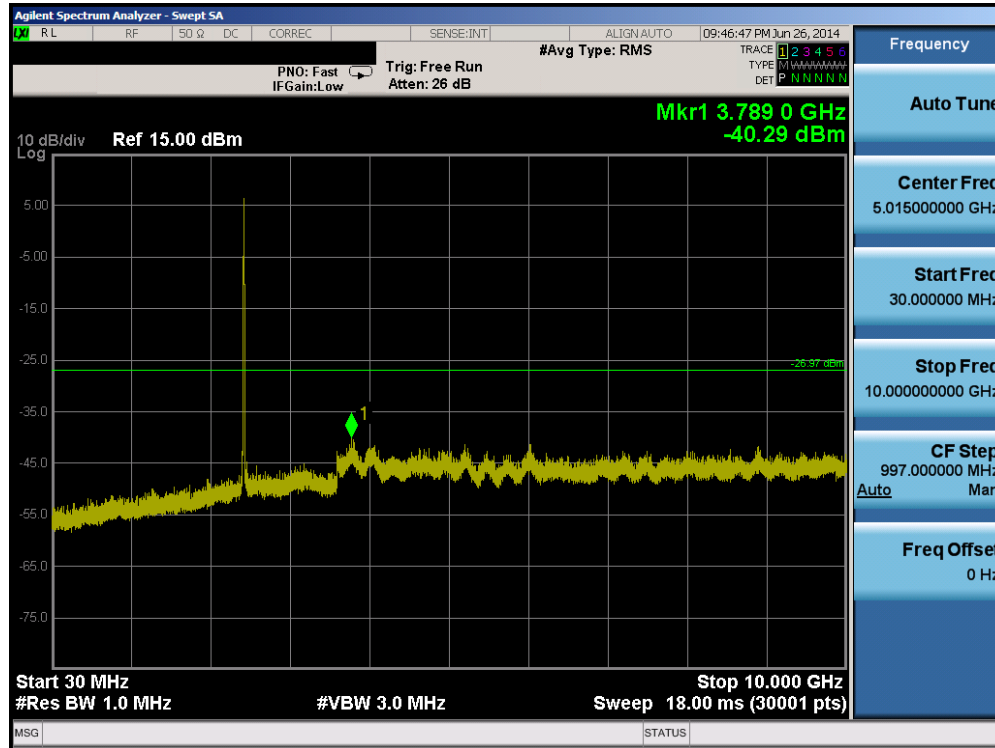


Plot 6-101. Conducted Spurious Plot (802.11b – Ch. 1)

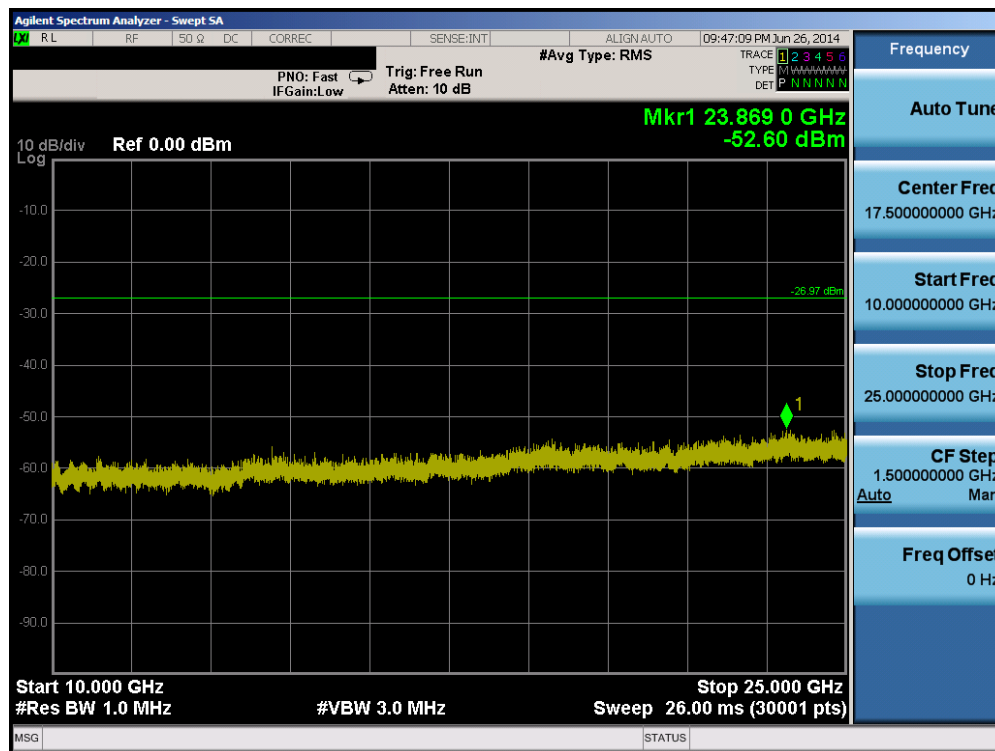


Plot 6-102. Conducted Spurious Plot (802.11b – Ch. 1)

FCC ID: A3LSMT807T	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.247 802.11a/b/g/n/ac MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
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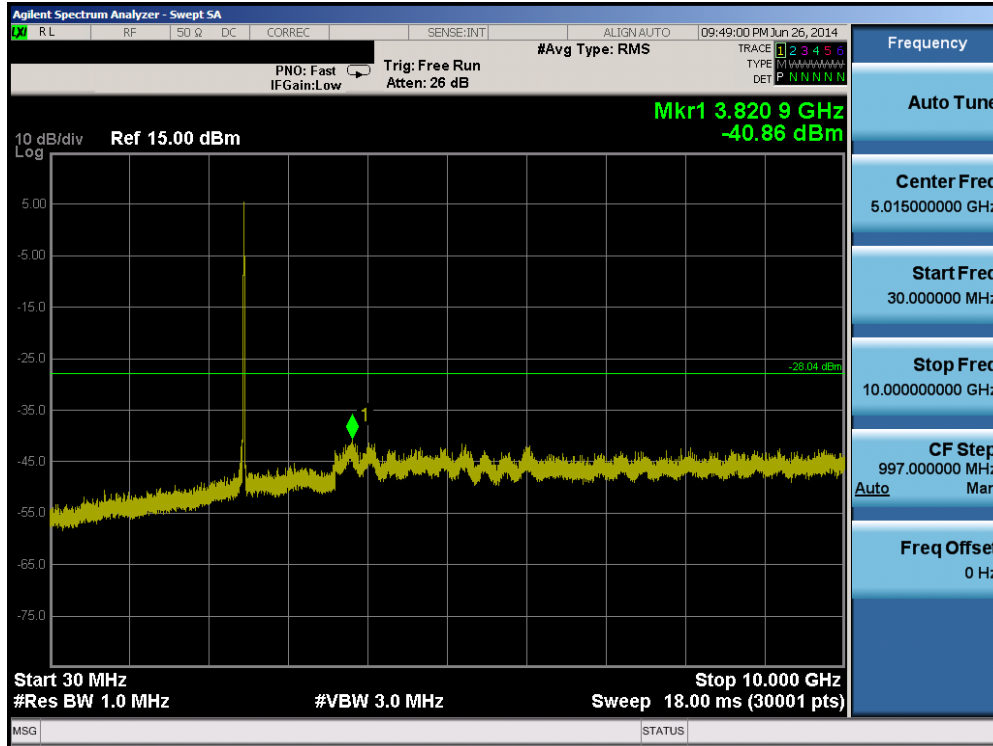


Plot 6-103. Conducted Spurious Plot (802.11b – Ch. 6)

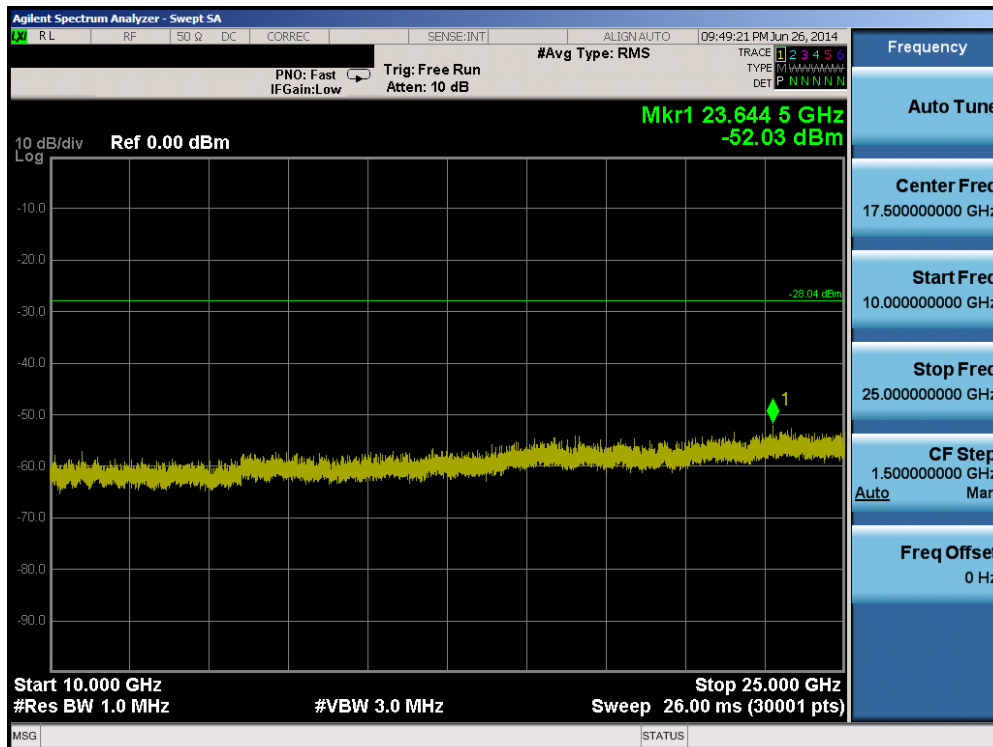


Plot 6-104. Conducted Spurious Plot (802.11b – Ch. 6)

FCC ID: A3LSMT807T	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.247 802.11a/b/g/n/ac MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
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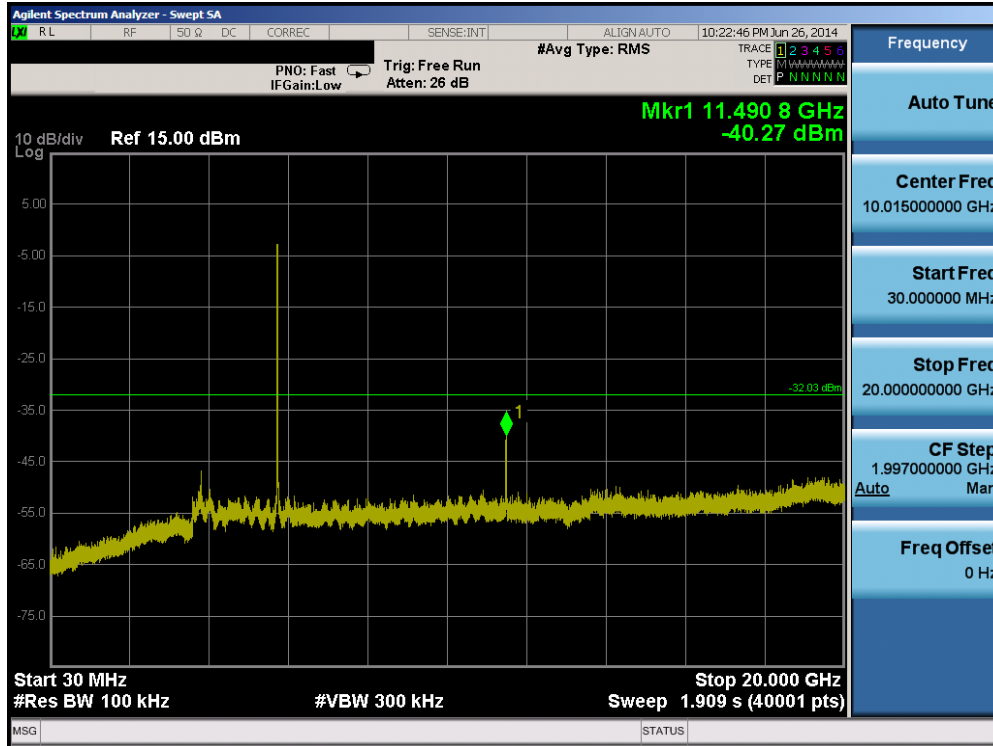


Plot 6-105. Conducted Spurious Plot (802.11b – Ch. 11)

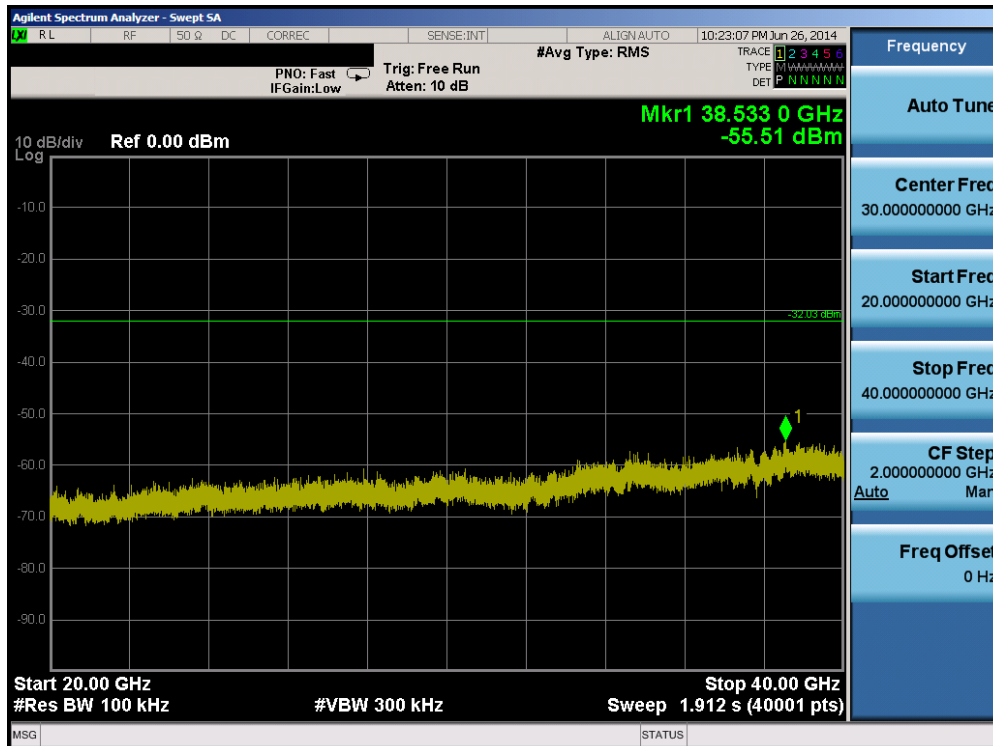


Plot 6-106. Conducted Spurious Plot (802.11b – Ch. 11)

FCC ID: A3LSMT807T	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.247 802.11a/b/g/n/ac MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
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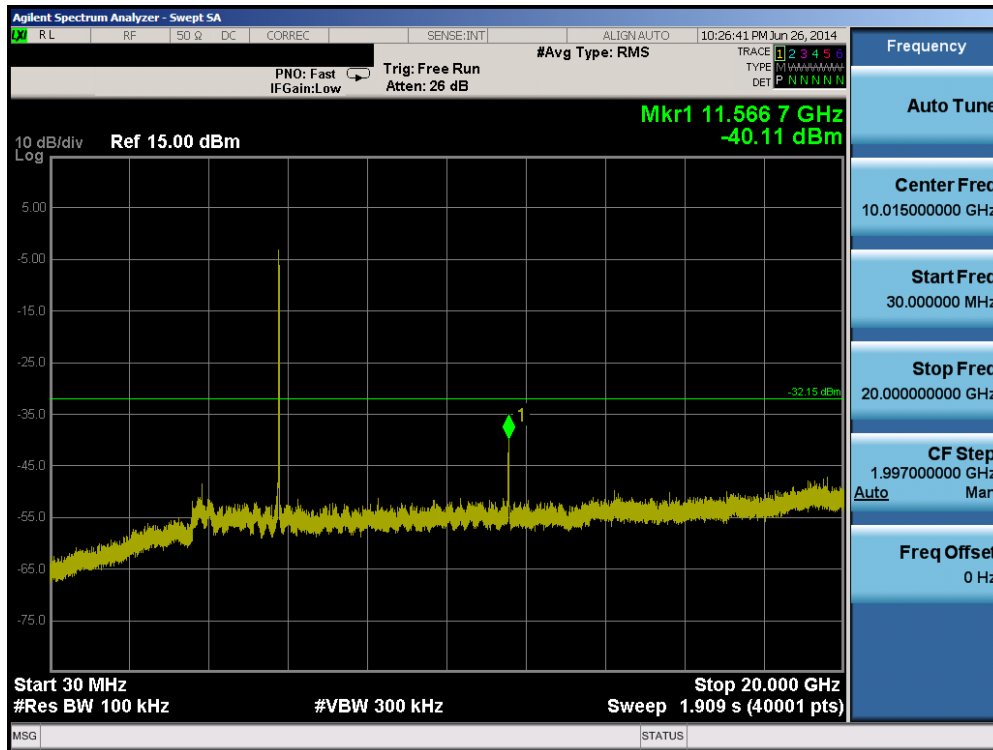


Plot 6-107. Conducted Spurious Plot (802.11a – Ch. 149)

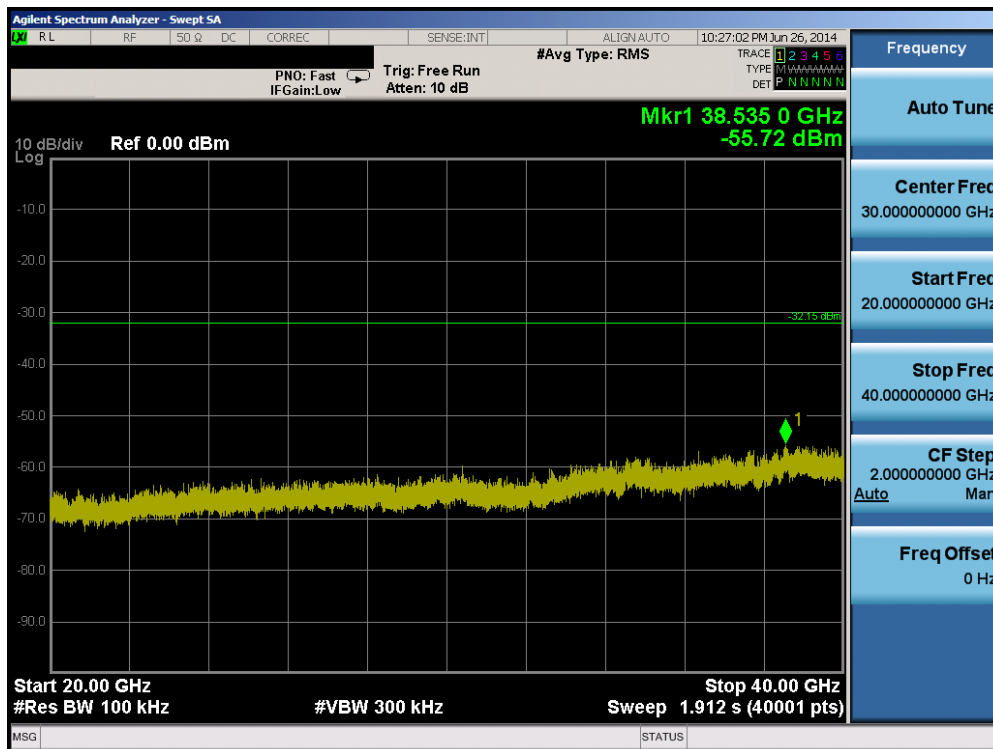


Plot 6-108. Conducted Spurious Plot (802.11a – Ch. 149)

FCC ID: A3LSMT807T	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.247 802.11a/b/g/n/ac MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
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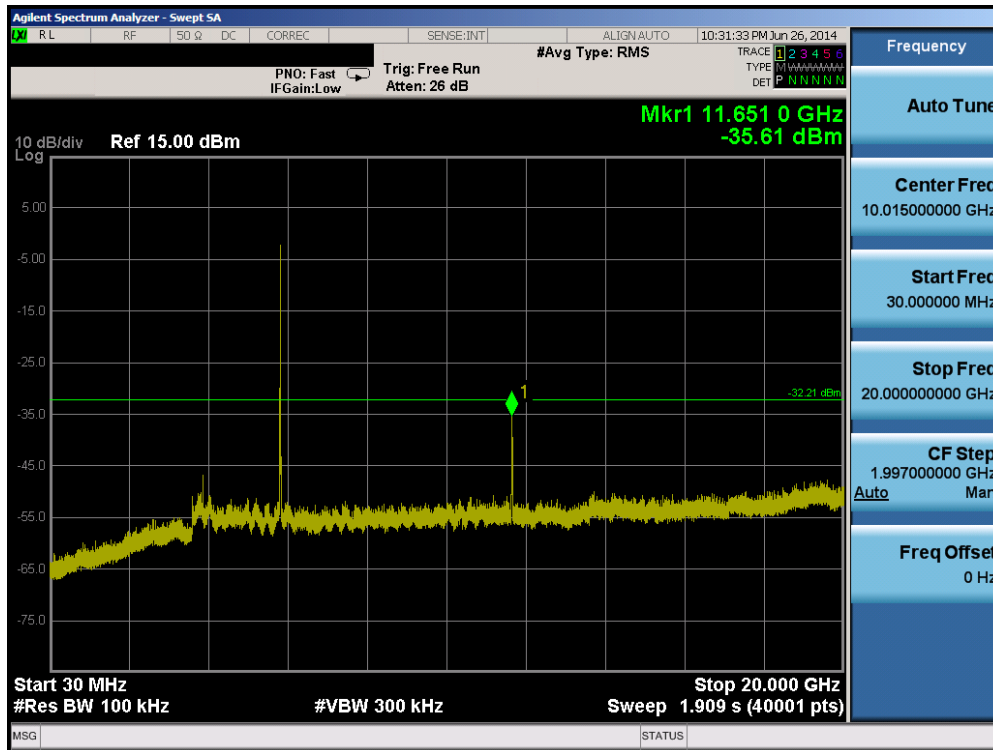


Plot 6-109. Conducted Spurious Plot (802.11a – Ch. 157)

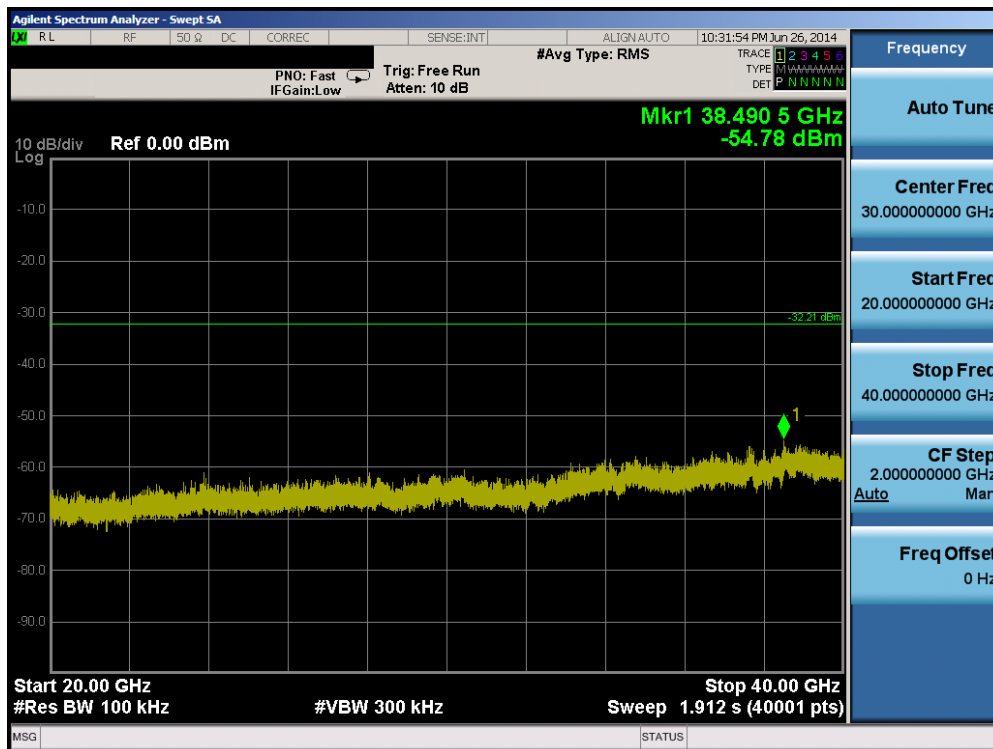


Plot 6-110. Conducted Spurious Plot (802.11a – Ch. 157)

FCC ID: A3LSMT807T		FCC Pt. 15.247 802.11a/b/g/n/ac MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
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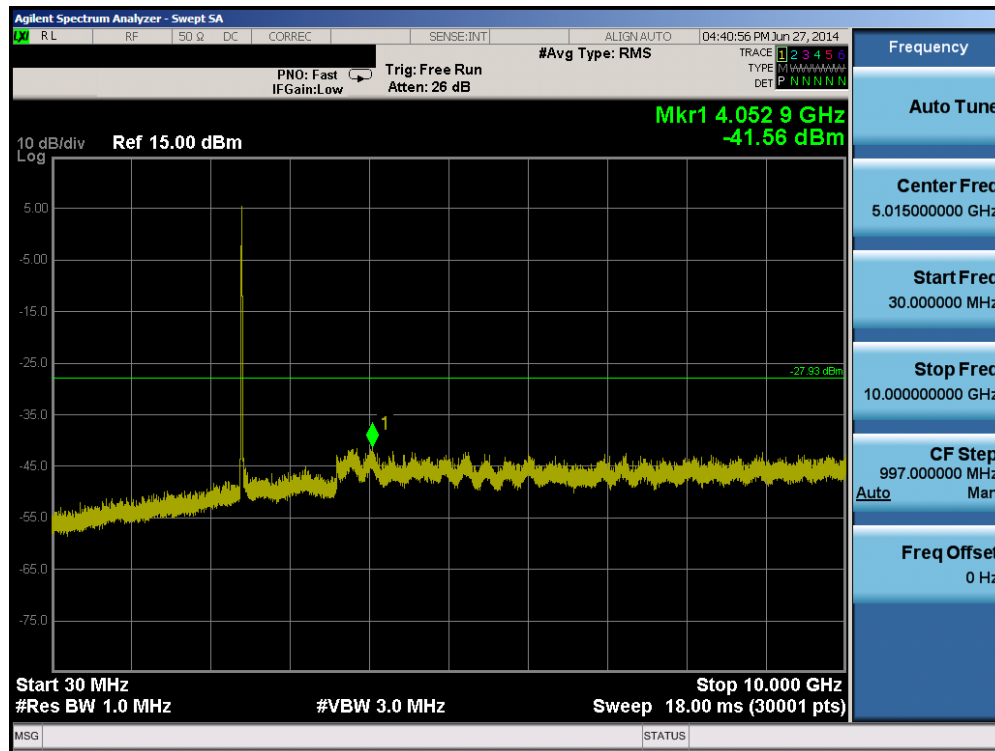
Plot 6-111. Conducted Spurious Plot (802.11a – Ch. 165)



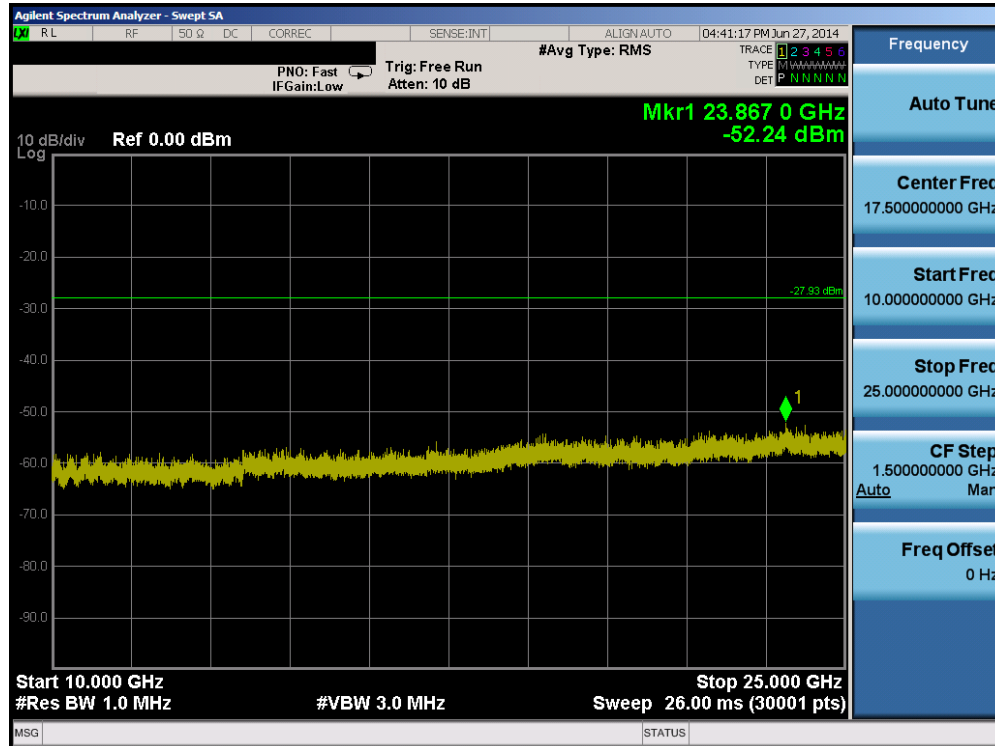
Plot 6-112. Conducted Spurious Plot (802.11a – Ch. 165)

FCC ID: A3LSMT807T	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.247 802.11a/b/g/n/ac MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
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Antenna-2 Conducted Spurious Emissions

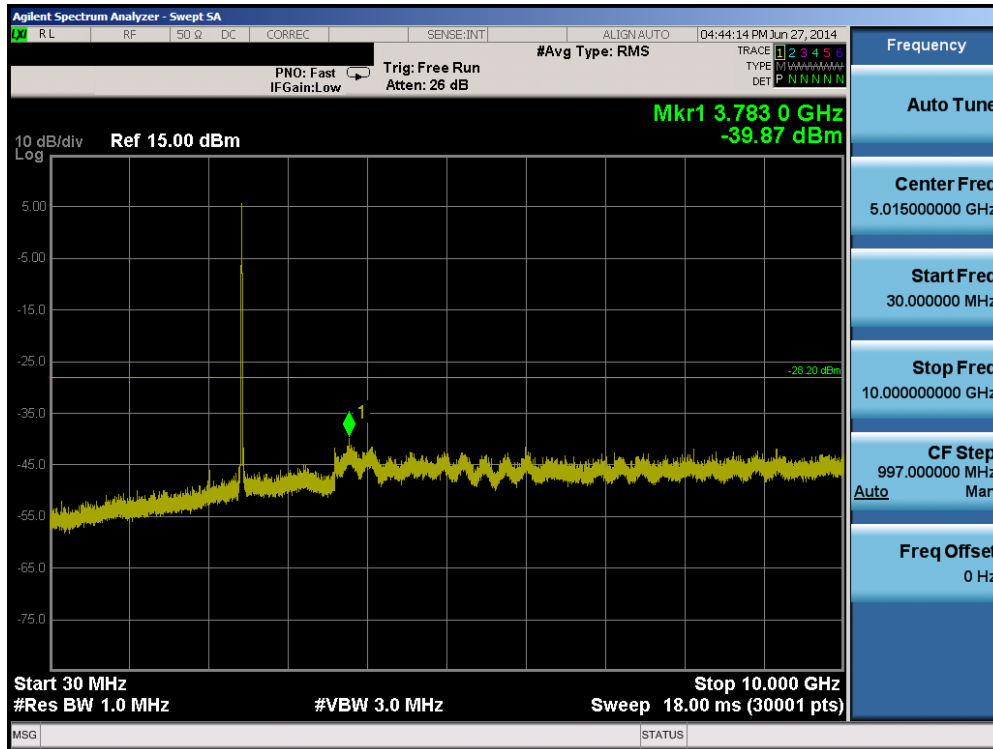


Plot 6-113. Conducted Spurious Plot (802.11b – Ch. 1)

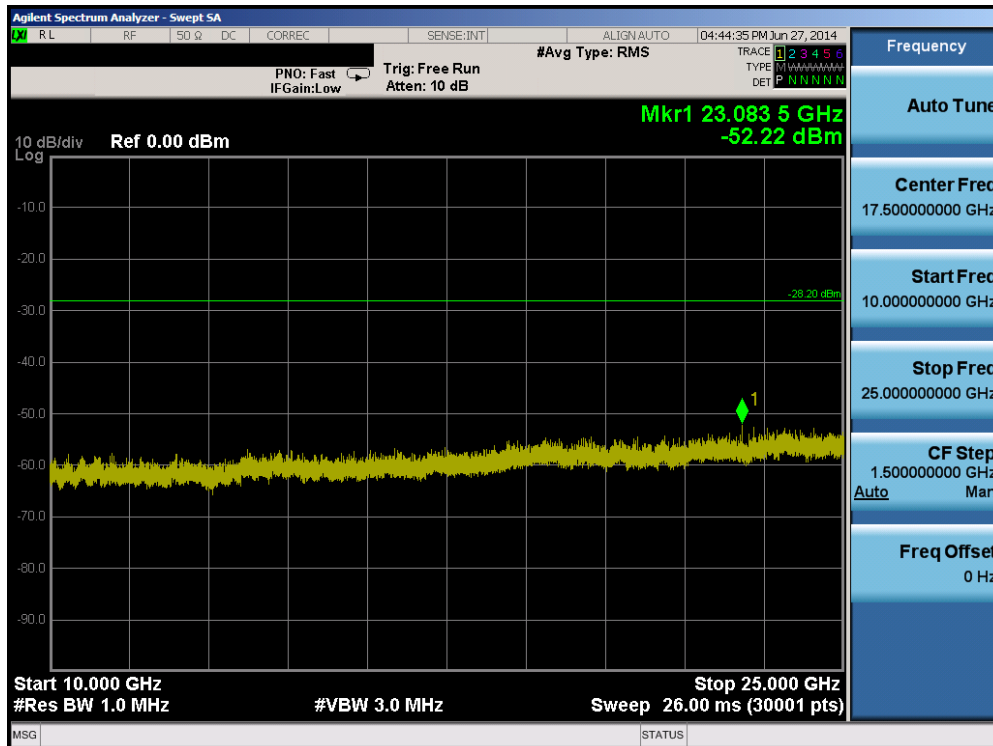


Plot 6-114. Conducted Spurious Plot (802.11b – Ch. 1)

FCC ID: A3LSMT807T	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.247 802.11a/b/g/n/ac MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
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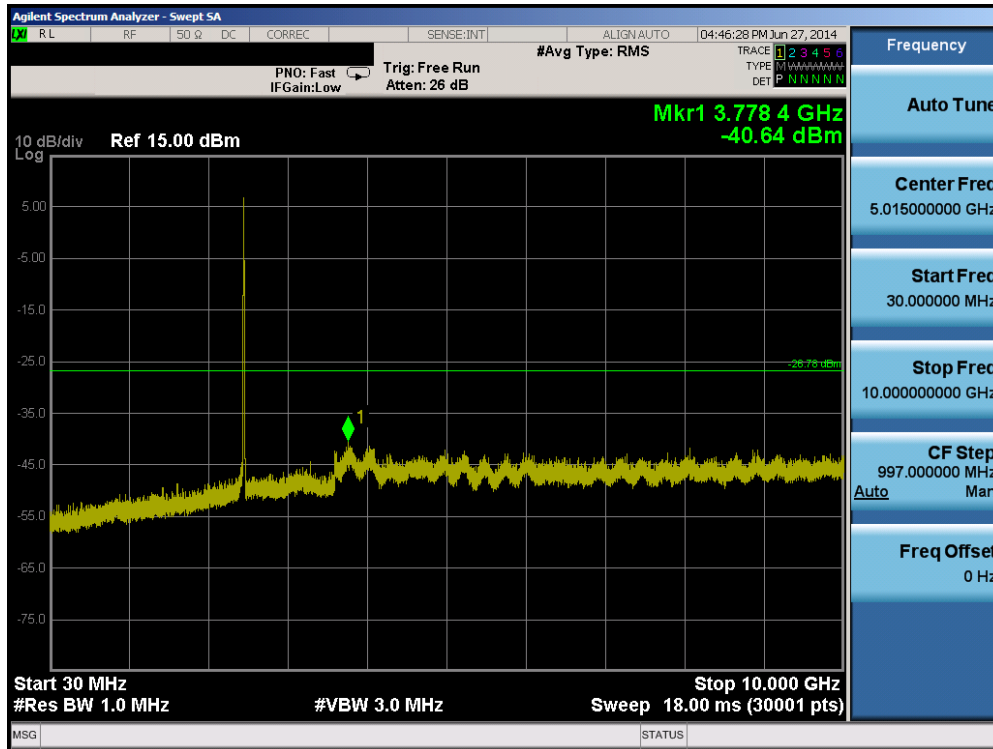


Plot 6-115. Conducted Spurious Plot (802.11b – Ch. 6)

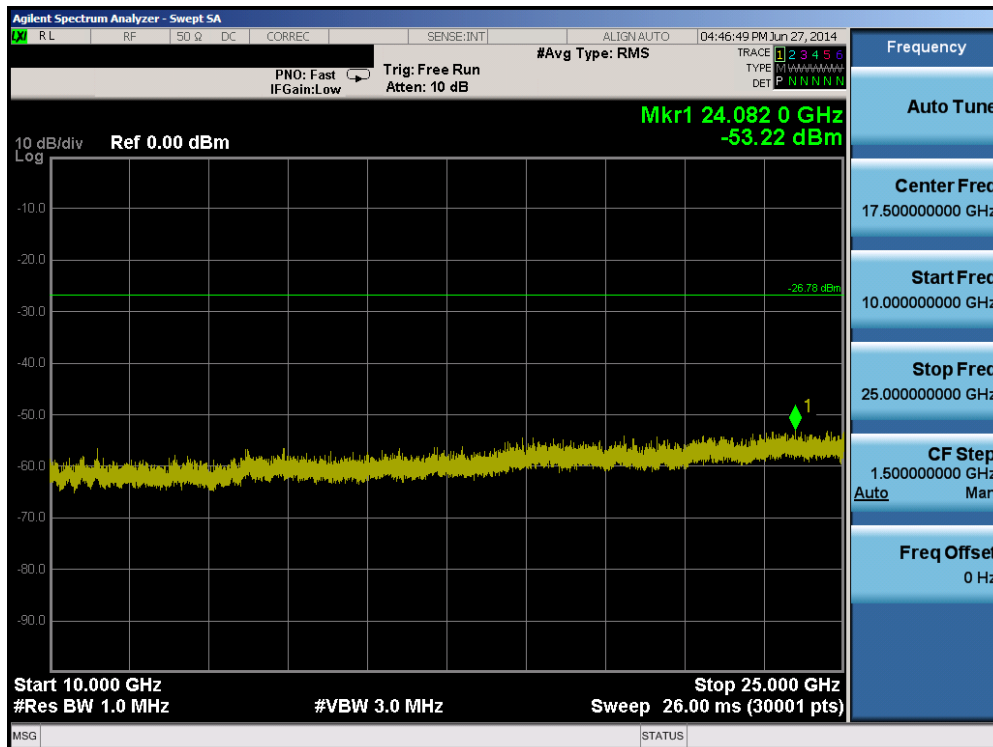


Plot 6-116. Conducted Spurious Plot (802.11b – Ch. 6)

FCC ID: A3LSMT807T	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.247 802.11a/b/g/n/ac MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
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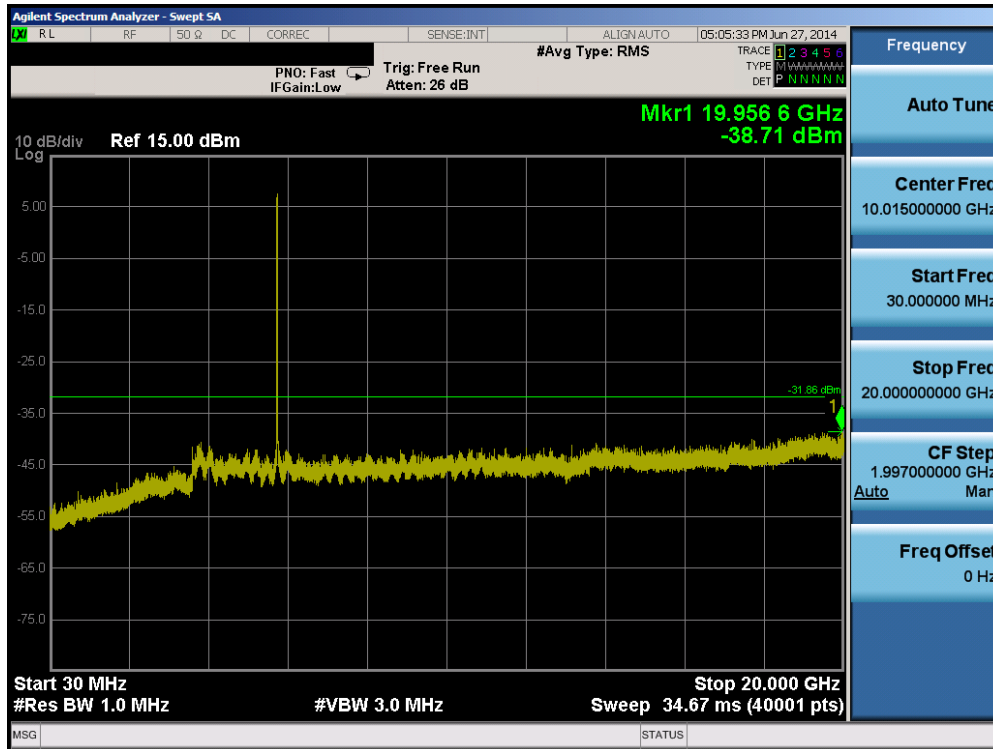


Plot 6-117. Conducted Spurious Plot (802.11b – Ch. 11)

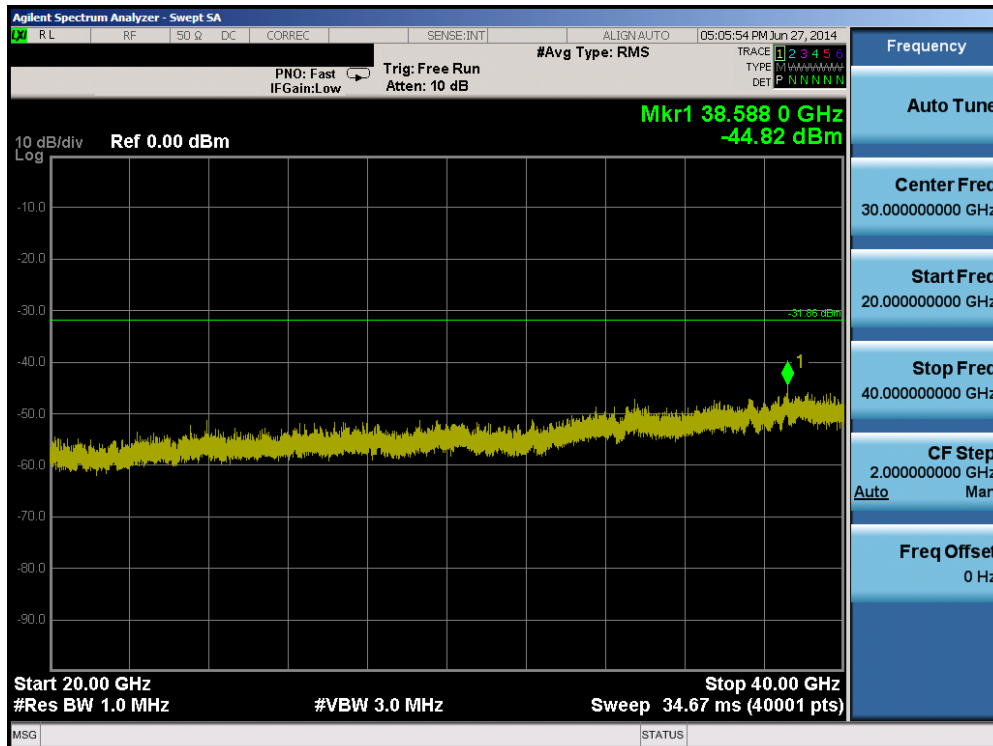


Plot 6-118. Conducted Spurious Plot (802.11b – Ch. 11)

FCC ID: A3LSMT807T	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.247 802.11a/b/g/n/ac MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
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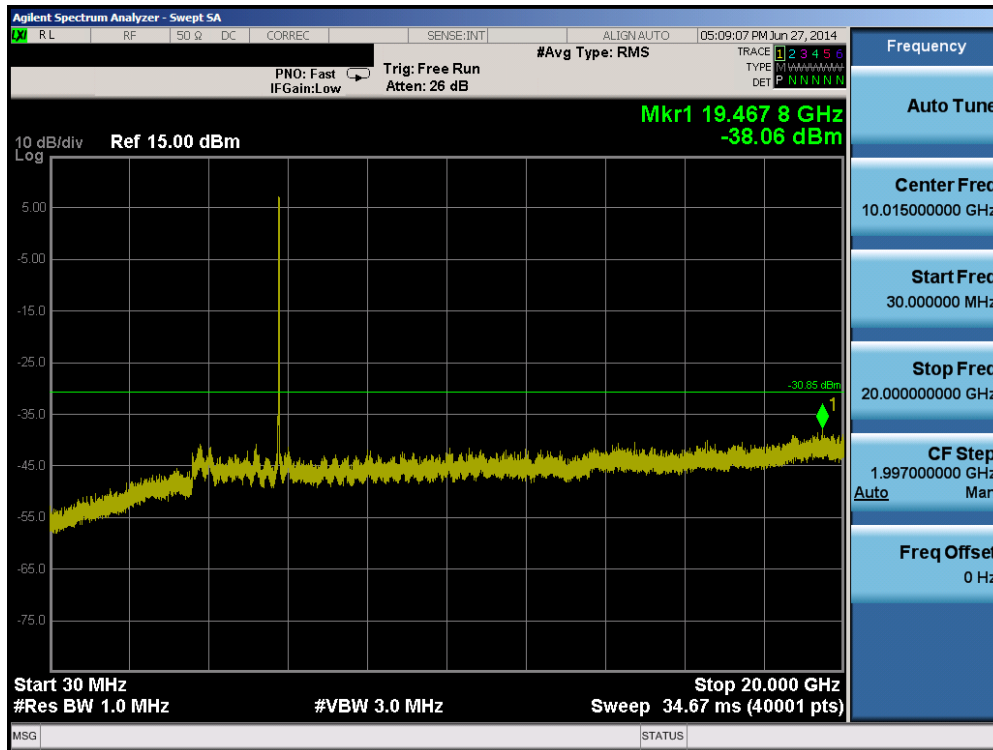


Plot 6-119. Conducted Spurious Plot (802.11a – Ch. 149)

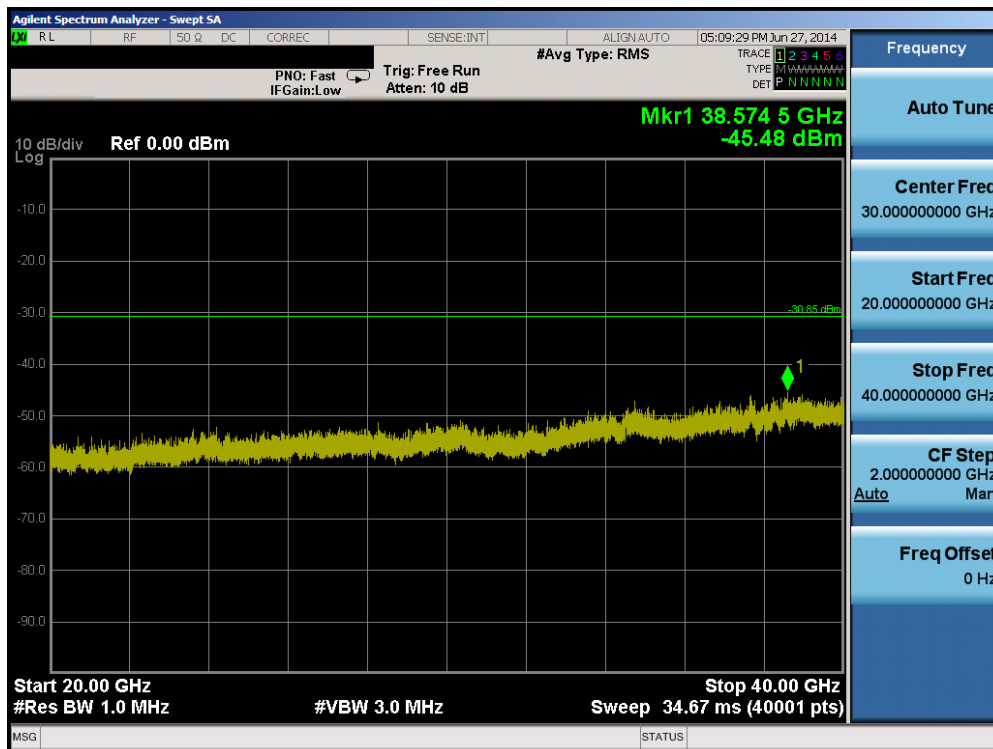


Plot 6-120. Conducted Spurious Plot (802.11a – Ch. 149)

FCC ID: A3LSMT807T	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.247 802.11a/b/g/n/ac MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
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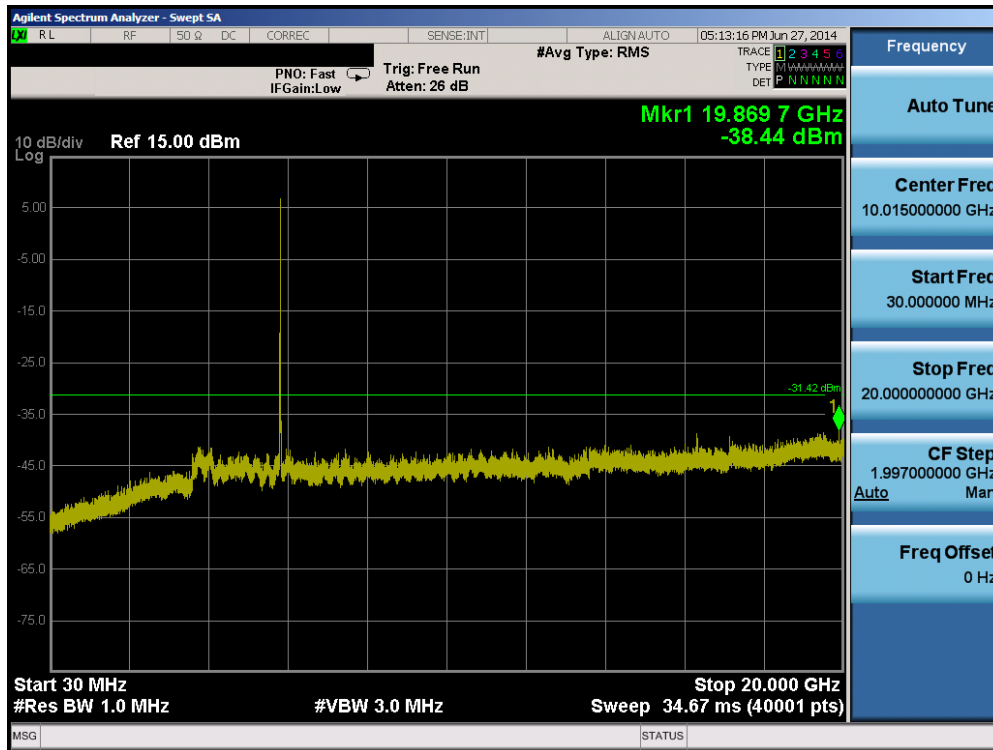


Plot 6-121. Conducted Spurious Plot (802.11a – Ch. 157)

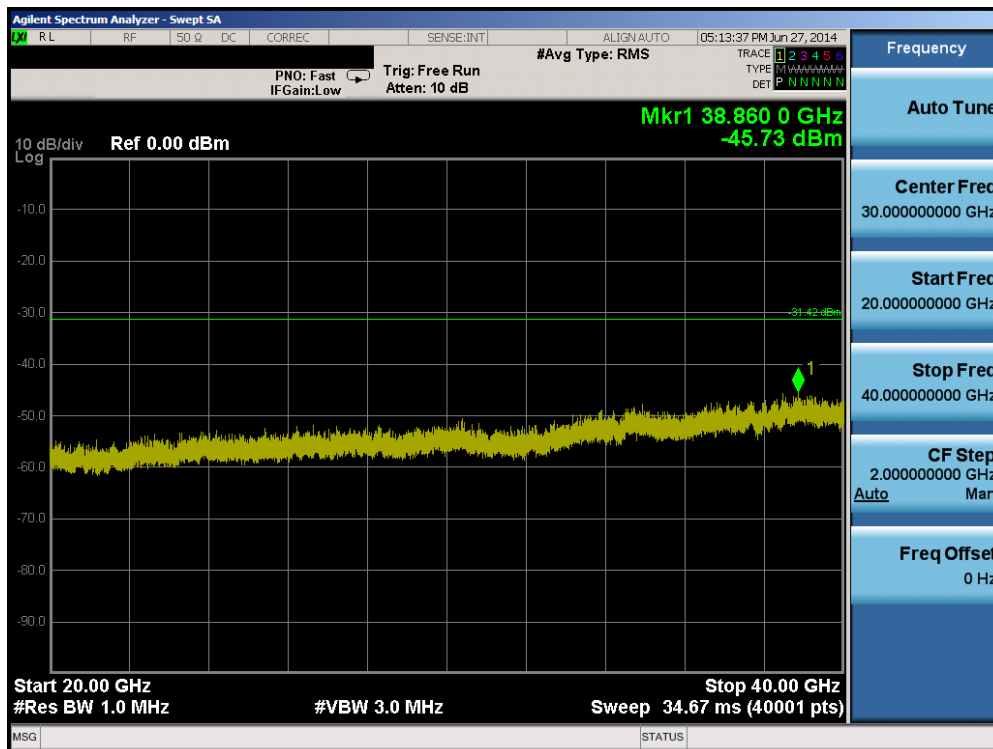


Plot 6-122. Conducted Spurious Plot (802.11a – Ch. 157)

FCC ID: A3LSMT807T	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.247 802.11a/b/g/n/ac MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
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Plot 6-123. Conducted Spurious Plot (802.11a – Ch. 165)



Plot 6-124. Conducted Spurious Plot (802.11a – Ch. 165)

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6.7 Radiated Spurious Emission Measurements

§15.247(d) §15.205 & §15.209

Test Overview and Limit

All out of band radiated spurious emissions are measured with a spectrum analyzer connected to a receive antenna while the EUT is operating at its maximum duty cycle (>98%), at maximum power, and at the appropriate frequencies. 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 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 6-31 per Section 15.209.

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 6-31. Radiated Limits

Test Procedures Used

KDB 558074 v03r02 – Section 12.1, 12.2.7

Test Settings

Average Field Strength Measurements per Section 12.2.5.1 of KDB 558074 v03r02

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = power average (RMS)
5. Number of measurement points = 1001 (Number of points must be $\geq 2 \times \text{span/RBW}$)
6. Sweep time = auto
7. Trace (RMS) averaging was performed over at least 100 traces

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Peak Field Strength Measurements per Section 12.2.4 of KDB 558074 v03r02

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.

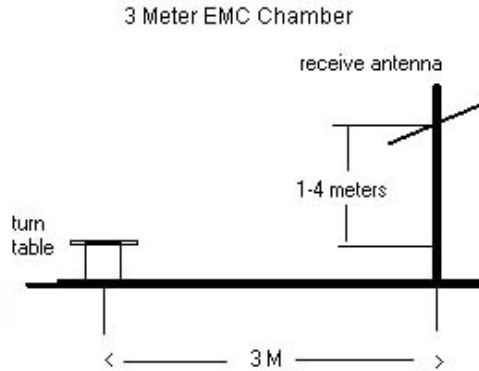


Figure 6-6. Test Instrument & Measurement Setup

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Test Notes

1. The optional test procedures for antenna port conducted measurements of unwanted emissions per the guidance of KDB 558074 v03r02 were not used to evaluate this device for compliance to radiated limits. All radiated spurious emissions levels were measured in a radiated test setup.
2. All emissions lying in restricted bands specified in §15.205 are below the limit shown in Table 6-10.
3. The antenna is manipulated through typical positions, polarity and length during the tests. The EUT is manipulated through three orthogonal planes.
4. This unit was tested with its standard battery.
5. The spectrum is measured from 9kHz to the 10th harmonic of the fundamental frequency of the transmitter using CISPR quasi peak detector below 1GHz. Above 1 GHz, average and peak measurements were taken using linearly polarized horn antennas. The worst-case emissions are reported however emissions whose levels were not within 20dB of the respective limits were not reported.
6. Emissions below 18GHz were measured at a 3 meter test distance while emissions above 18GHz were measured at a 1 meter test distance with the application of a distance correction factor.

Sample Calculations

Determining Spurious Emissions Levels

- o Field Strength Level $_{[dB\mu V/m]} = \text{Analyzer Level}_{[dBm]} + 107 + \text{AFCL}_{[dB/m]}$
- o $\text{AFCL}_{[dB/m]} = \text{Antenna Factor}_{[dB/m]} + \text{Cable Loss}_{[dB]}$
- o $\text{Margin}_{[dB]} = \text{Field Strength Level}_{[dB\mu V/m]} - \text{Limit}_{[dB\mu V/m]}$

Radiated Band Edge Measurement Offset

- o The amplitude offset shown in the radiated restricted band edge plots in Section 6.8 was calculated using the formula:

$$\text{Offset (dB)} = (\text{Antenna Factor} + \text{Cable Loss} + 10 \text{ dB Attenuator}) - \text{Preamplifier Gain}$$

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Antenna-1 Radiated Spurious Emission Measurements

§15.247(d) §15.205 & §15.209

Worst Case Mode: 802.11b
Worst Case Transfer Rate: 1 Mbps
Distance of Measurements: 3 Meters
Operating Frequency: 2412MHz
Channel: 01

Frequency [MHz]	Analyzer Level [dBm]	Detector	Ant. Pol. [H/V]	EUT Pol. [H/H2/V]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
4824.00	-104.35	Avg	H	H	40.37	43.02	53.98	-10.96
4824.00	-95.77	Peak	H	H	40.37	51.60	73.98	-22.38
12060.00	-110.02	Avg	H	H	48.32	45.31	53.98	-8.67
12060.00	-98.13	Peak	H	H	48.32	57.20	73.98	-16.78

Table 6-32. Radiated Measurements

Worst Case Mode: 802.11b
Worst Case Transfer Rate: 1 Mbps
Distance of Measurements: 3 Meters
Operating Frequency: 2437MHz
Channel: 06

Frequency [MHz]	Analyzer Level [dBm]	Detector	Ant. Pol. [H/V]	EUT Pol. [H/H2/V]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
4874.00	-102.91	Avg	H	H	40.70	44.79	53.98	-9.19
4874.00	-94.87	Peak	H	H	40.70	52.83	73.98	-21.15
7311.00	-110.32	Avg	H	H	43.99	40.66	53.98	-13.32
7311.00	-98.46	Peak	H	H	43.99	52.52	73.98	-21.46
12185.00	-110.04	Avg	H	H	47.85	44.82	53.98	-9.16
12185.00	-98.23	Peak	H	H	47.85	56.63	73.98	-17.35

Table 6-33. Radiated Measurements

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Worst Case Mode: 802.11b
 Worst Case Transfer Rate: 1 Mbps
 Distance of Measurements: 3 Meters
 Operating Frequency: 2462MHz
 Channel: 11

Frequency [MHz]	Analyzer Level [dBm]	Detector	Ant. Pol. [H/V]	EUT Pol. [H/H2/V]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
4924.00	-101.23	Avg	H	H	41.02	46.78	53.98	-7.19
4924.00	-94.18	Peak	H	H	41.02	53.83	73.98	-20.14
7386.00	-109.87	Avg	H	H	44.04	41.17	53.98	-12.81
7386.00	-98.78	Peak	H	H	44.04	52.26	73.98	-21.72
12310.00	-109.89	Avg	H	H	47.75	44.86	53.98	-9.12
12310.00	-98.02	Peak	H	H	47.75	56.73	73.98	-17.25

Table 6-34. Radiated Measurements

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6 Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5745MHz
 Channel: 149

Frequency [MHz]	Analyzer Level [dBm]	Detector	Ant. Pol. [H/V]	EUT Pol. [H/H2/V]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
11490.00	-104.25	Avg	H	H	47.54	0.00	50.30	53.98	-3.68
11490.00	-91.80	Peak	H	H	47.54	0.00	62.75	73.98	-11.23
22980.00	-98.47	Avg	H	H	44.60	-9.54	43.59	53.98	-10.39
22980.00	-87.94	Peak	H	H	44.60	-9.54	54.12	73.98	-19.86

Table 6-35. Radiated Measurements

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Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6 Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5785MHz
 Channel: 157

Frequency [MHz]	Analyzer Level [dBm]	Detector	Ant. Pol. [H/V]	EUT Pol. [H/H2/V]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
11570.00	-105.62	Avg	H	H	47.89	49.27	53.98	-4.71
11570.00	-92.53	Peak	H	H	47.89	62.36	73.98	-11.62

Table 6-36. Radiated Measurements

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6 Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5825MHz
 Channel: 165

Frequency [MHz]	Analyzer Level [dBm]	Detector	Ant. Pol. [H/V]	EUT Pol. [H/H2/V]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
11650.00	-104.86	Avg	H	H	48.18	50.32	53.98	-3.66
11650.00	-91.54	Peak	H	H	48.18	63.64	73.98	-10.34

Table 6-37. Radiated Measurements

Antenna-2 Radiated Spurious Emission Measurements

§15.247(d) §15.205 & §15.209

Worst Case Mode: 802.11b
 Worst Case Transfer Rate: 1 Mbps
 Distance of Measurements: 3 Meters
 Operating Frequency: 2412MHz
 Channel: 01

Frequency [MHz]	Analyzer Level [dBm]	Detector	Ant. Pol. [H/V]	EUT Pol. [H/H2/V]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
4824.00	-98.73	Avg	H	H	40.37	48.64	53.98	-5.34
4824.00	-92.96	Peak	H	H	40.37	54.41	73.98	-19.57
12060.00	-110.01	Avg	H	H	48.32	45.32	53.98	-8.66
12060.00	-97.76	Peak	H	H	48.32	57.57	73.98	-16.41

Table 6-38. Radiated Measurements

Worst Case Mode: 802.11b
 Worst Case Transfer Rate: 1 Mbps
 Distance of Measurements: 3 Meters
 Operating Frequency: 2437MHz
 Channel: 06

Frequency [MHz]	Analyzer Level [dBm]	Detector	Ant. Pol. [H/V]	EUT Pol. [H/H2/V]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
4874.00	-99.98	Avg	H	H	40.70	47.72	53.98	-6.26
4874.00	-93.16	Peak	H	H	40.70	54.54	73.98	-19.44
7311.00	-110.37	Avg	H	H	43.99	40.61	53.98	-13.37
7311.00	-98.37	Peak	H	H	43.99	52.61	73.98	-21.37
12185.00	-110.04	Avg	H	H	47.85	44.82	53.98	-9.16
12185.00	-98.33	Peak	H	H	47.85	56.53	73.98	-17.45

Table 6-39. Radiated Measurements

FCC ID: A3LSMT807T		FCC Pt. 15.247 802.11a/b/g/n/ac MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1407301585.A3L	Test Dates: 06/17 - 08/5/2014	EUT Type: Portable Tablet		Page 99 of 121

Worst Case Mode: 802.11b
 Worst Case Transfer Rate: 1 Mbps
 Distance of Measurements: 3 Meters
 Operating Frequency: 2462MHz
 Channel: 11

Frequency [MHz]	Analyzer Level [dBm]	Detector	Ant. Pol. [H/V]	EUT Pol. [H/H2/V]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
4924.00	-100.23	Avg	H	H	41.02	47.78	53.98	-6.19
4924.00	-94.24	Peak	H	H	41.02	53.77	73.98	-20.20
7386.00	-109.86	Avg	H	H	44.04	41.18	53.98	-12.80
7386.00	-98.37	Peak	H	H	44.04	52.67	73.98	-21.31
12310.00	-109.87	Avg	H	H	47.75	44.88	53.98	-9.10
12310.00	-98.07	Peak	H	H	47.75	56.68	73.98	-17.30

Table 6-40. Radiated Measurements

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6 Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5745MHz
 Channel: 149

Frequency [MHz]	Analyzer Level [dBm]	Detector	Ant. Pol. [H/V]	EUT Pol. [H/H2/V]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
11490.00	-103.05	Avg	H	H	45.62	0.00	49.57	53.98	-4.41
11490.00	-90.35	Peak	H	H	45.62	0.00	62.27	73.98	-11.71
22980.00	-98.69	Avg	H	H	44.60	-9.54	43.36	53.98	-10.62
22980.00	-87.53	Peak	H	H	44.60	-9.54	54.53	73.98	-19.45

Table 6-41. Radiated Measurements

FCC ID: A3LSMT807T		FCC Pt. 15.247 802.11a/b/g/n/ac MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1407301585.A3L	Test Dates: 06/17 - 08/5/2014	EUT Type: Portable Tablet		Page 100 of 121

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6 Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5785MHz
 Channel: 157

Frequency [MHz]	Analyzer Level [dBm]	Detector	Ant. Pol. [H/V]	EUT Pol. [H/H2/V]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
11570.00	-102.48	Avg	H	H	45.68	50.19	53.98	-3.78
11570.00	-88.94	Peak	H	H	45.68	63.73	73.98	-10.24

Table 6-42. Radiated Measurements

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6 Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5825MHz
 Channel: 165

Frequency [MHz]	Analyzer Level [dBm]	Detector	Ant. Pol. [H/V]	EUT Pol. [H/H2/V]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
11650.00	-103.18	Avg	H	H	45.71	49.53	53.98	-4.45
11650.00	-90.38	Peak	H	H	45.71	62.33	73.98	-11.65

Table 6-43. Radiated Measurements

MIMO Radiated Spurious Emission Measurements

§15.247(d) §15.205 & §15.209

Worst Case Mode: 802.11n
Worst Case Transfer Rate: MCS8
Distance of Measurements: 3 Meters
Operating Frequency: 2412MHz
Channel: 01

Frequency [MHz]	Analyzer Level [dBm]	Detector	Ant. Pol. [H/V]	EUT Pol. [H/H2/V]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
4824.00	-108.84	Avg	H	H	40.37	38.53	53.98	-15.45
4824.00	-97.15	Peak	H	H	40.37	50.22	73.98	-23.76
12060.00	-110.02	Avg	H	H	48.32	45.31	53.98	-8.67
12060.00	-97.88	Peak	H	H	48.32	57.45	73.98	-16.53

Table 6-44. Radiated Measurements

Worst Case Mode: 802.11n
Worst Case Transfer Rate: MCS8
Distance of Measurements: 3 Meters
Operating Frequency: 2437MHz
Channel: 06

Frequency [MHz]	Analyzer Level [dBm]	Detector	Ant. Pol. [H/V]	EUT Pol. [H/H2/V]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
4874.00	-108.70	Avg	H	H	40.70	39.00	53.98	-14.98
4874.00	-96.88	Peak	H	H	40.70	50.82	73.98	-23.16
7311.00	-110.37	Avg	H	H	43.99	40.61	53.98	-13.37
7311.00	-98.80	Peak	H	H	43.99	52.18	73.98	-21.80
12185.00	-110.08	Avg	H	H	47.85	44.78	53.98	-9.20
12185.00	-98.24	Peak	H	H	47.85	56.62	73.98	-17.36

Table 6-45. Radiated Measurements

FCC ID: A3LSMT807T		FCC Pt. 15.247 802.11a/b/g/n/ac MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1407301585.A3L	Test Dates: 06/17 - 08/5/2014	EUT Type: Portable Tablet		Page 102 of 121

Worst Case Mode: 802.11n
 Worst Case Transfer Rate: MCS8
 Distance of Measurements: 3 Meters
 Operating Frequency: 2462MHz
 Channel: 11

Frequency [MHz]	Analyzer Level [dBm]	Detector	Ant. Pol. [H/V]	EUT Pol. [H/H2/V]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
4924.00	-108.95	Avg	H	H	41.02	39.06	53.98	-14.91
4924.00	-96.67	Peak	H	H	41.02	51.34	73.98	-22.63
7386.00	-109.87	Avg	H	H	44.04	41.17	53.98	-12.81
7386.00	-97.54	Peak	H	H	44.04	53.50	73.98	-20.48
12310.00	-109.91	Avg	H	H	47.75	44.84	53.98	-9.14
12310.00	-98.31	Peak	H	H	47.75	56.44	73.98	-17.54

Table 6-46. Radiated Measurements

Worst Case Mode: 802.11n
 Worst Case Transfer Rate: MCS8
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5745MHz
 Channel: 149

Frequency [MHz]	Analyzer Level [dBm]	Detector	Ant. Pol. [H/V]	EUT Pol. [H/H2/V]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
11490.00	-107.32	Avg	H	H	47.54	0.00	47.23	53.98	-6.75
11490.00	-95.05	Peak	H	H	47.54	0.00	59.50	73.98	-14.48
22980.00	-98.41	Avg	H	H	44.60	-9.54	43.65	53.98	-10.33
22980.00	-88.53	Peak	H	H	44.60	-9.54	53.53	73.98	-20.45

Table 6-47. Radiated Measurements

FCC ID: A3LSMT807T		FCC Pt. 15.247 802.11a/b/g/n/ac MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1407301585.A3L	Test Dates: 06/17 - 08/5/2014	EUT Type: Portable Tablet		Page 103 of 121

Worst Case Mode: 802.11n
 Worst Case Transfer Rate: MCS8
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5785MHz
 Channel: 157

Frequency [MHz]	Analyzer Level [dBm]	Detector	Ant. Pol. [H/V]	EUT Pol. [H/H2/V]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
11570.00	-107.10	Avg	H	H	47.89	47.79	53.98	-6.19
11570.00	-95.06	Peak	H	H	47.89	59.83	73.98	-14.15

Table 6-48. Radiated Measurements

Worst Case Mode: 802.11n
 Worst Case Transfer Rate: MCS8
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5825MHz
 Channel: 165

Frequency [MHz]	Analyzer Level [dBm]	Detector	Ant. Pol. [H/V]	EUT Pol. [H/H2/V]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
11650.00	-108.03	Avg	H	H	48.18	47.15	53.98	-6.83
11650.00	-95.38	Peak	H	H	48.18	59.80	73.98	-14.18

Table 6-49. Radiated Measurements

6.8 Antenna-1 Radiated Restricted Band Edge Measurements

\$15.205 \$15.209

The radiated restricted band edge measurements are measured with an EMI test receiver connected to the receive antenna while the EUT is transmitting.

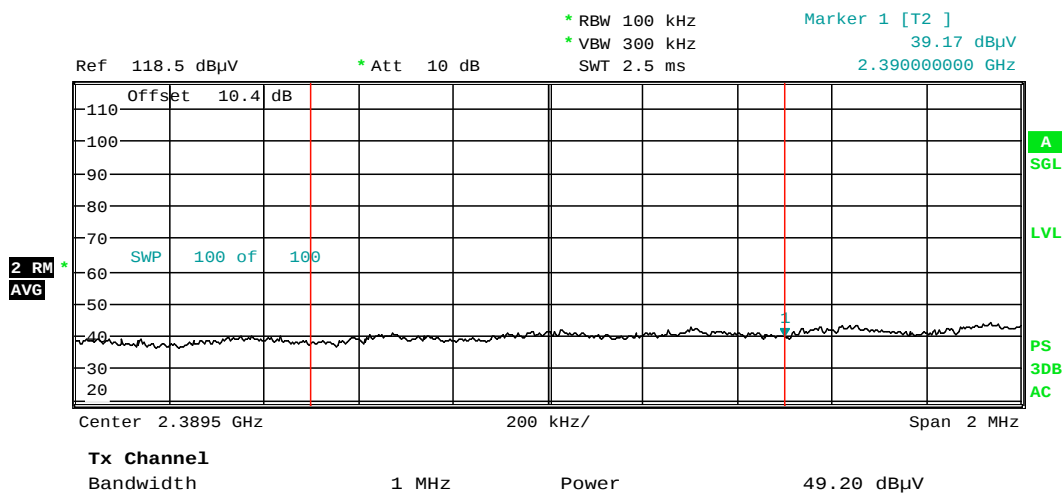
Worst Case Mode: 802.11g

Worst Case Transfer Rate: 6 Mbps

Distance of Measurements: 3 Meters

Operating Frequency: 2412MHz

Channel: 1



Date: 24.JUN.2014 16:07:04

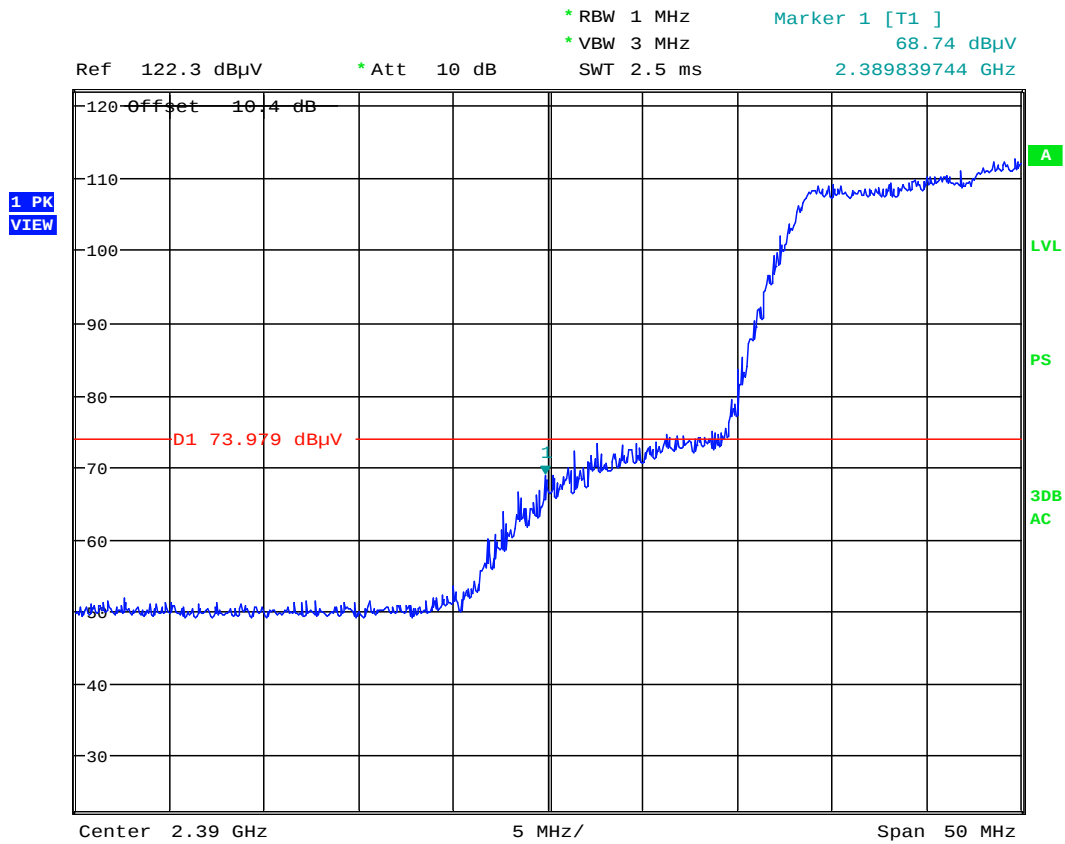
Plot 6-125. Radiated Restricted Lower Band Edge Measurement (Average)

Note: Per KDB 558074 Section 13.3.1 the integration method was used to measure the plot above.

FCC ID: A3LSMT807T	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.247 802.11a/b/g/n/ac MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1407301585.A3L	Test Dates: 06/17 - 08/5/2014	EUT Type: Portable Tablet		Page 105 of 121

Radiated Restricted Band Edge Measurements

\$15.205 \$15.209



Date: 24.JUN.2014 16:07:26

Plot 6-126. Radiated Restricted Lower Band Edge Measurement (Peak)

FCC ID: A3LSMT807T	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.247 802.11a/b/g/n/ac MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1407301585.A3L	Test Dates: 06/17 - 08/5/2014	EUT Type: Portable Tablet		Page 106 of 121

Radiated Restricted Band Edge Measurements

\$15.205 \$15.209

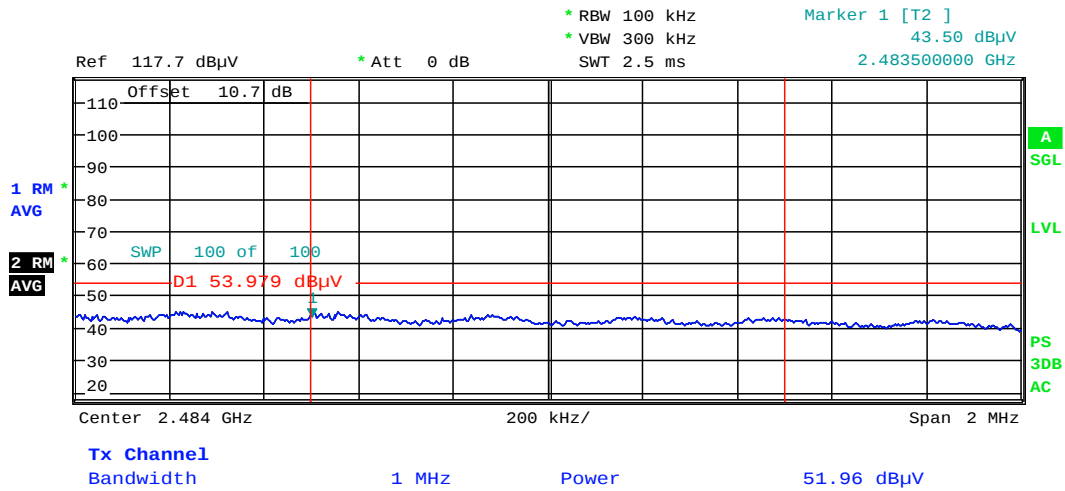
Worst Case Mode: 802.11g

Worst Case Transfer Rate: 6 Mbps

Distance of Measurements: 3 Meters

Operating Frequency: 2462MHz

Channel: 11



Date: 30.JUN.2014 22:02:59

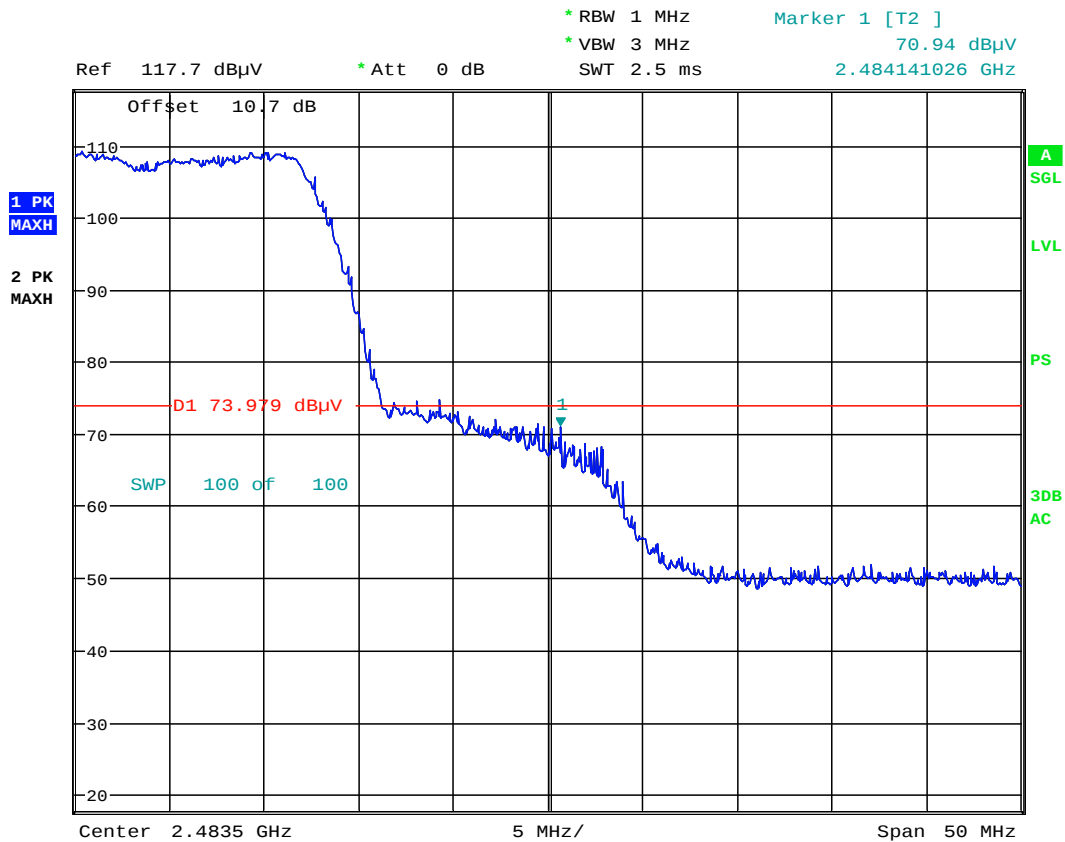
Plot 6-127. Radiated Restricted Upper Band Edge Measurement (Average)

Note: Per KDB 558074 Section13.3.1 the integration method was used to measure the plot above.

FCC ID: A3LSMT807T	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.247 802.11a/b/g/n/ac MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1407301585.A3L	Test Dates: 06/17 - 08/5/2014	EUT Type: Portable Tablet		Page 107 of 121

Radiated Restricted Band Edge Measurements

§15.205 §15.209



Date: 30.JUN.2014 22:04:04

Plot 6-128. Radiated Restricted Upper Band Edge Measurement (Peak)

FCC ID: A3LSMT807T	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.247 802.11a/b/g/n/ac MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1407301585.A3L	Test Dates: 06/17 - 08/5/2014	EUT Type: Portable Tablet		Page 108 of 121

6.9 Antenna-2 Radiated Restricted Band Edge Measurements

\$15.205 \$15.209

The radiated restricted band edge measurements are measured with an EMI test receiver connected to the receive antenna while the EUT is transmitting.

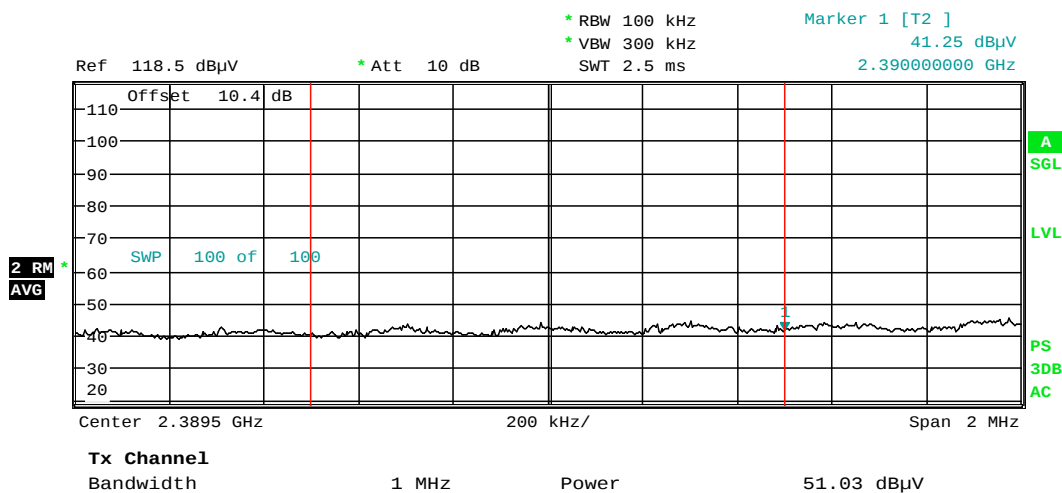
Worst Case Mode: 802.11g

Worst Case Transfer Rate: 6 Mbps

Distance of Measurements: 3 Meters

Operating Frequency: 2412MHz

Channel: 1



Date: 24.JUN.2014 16:14:16

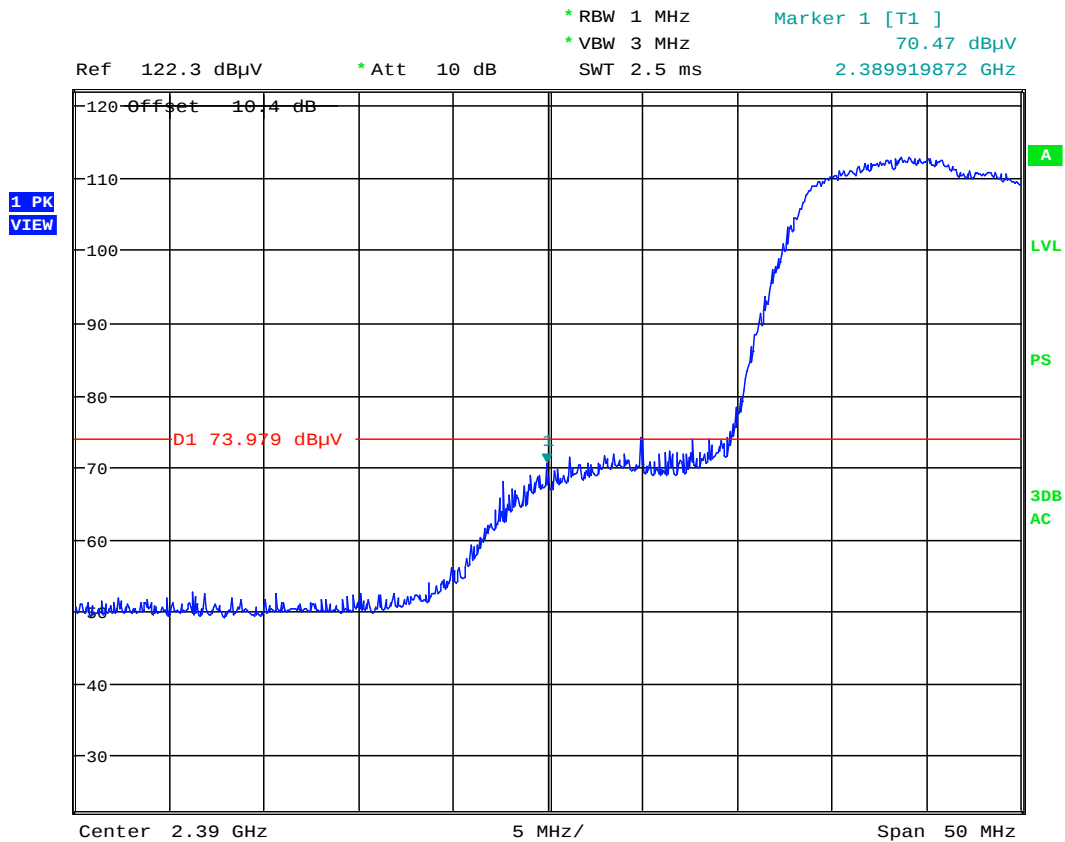
Plot 6-129. Radiated Restricted Lower Band Edge Measurement (Average)

Note: Per KDB 558074 Section13.3.1 the integration method was used to measure the plot above.

FCC ID: A3LSMT807T	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.247 802.11a/b/g/n/ac MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1407301585.A3L	Test Dates: 06/17 - 08/5/2014	EUT Type: Portable Tablet		Page 109 of 121

Radiated Restricted Band Edge Measurements

\$15.205 \$15.209



Date: 24.JUN.2014 16:14:57

Plot 6-130. Radiated Restricted Lower Band Edge Measurement (Peak)

FCC ID: A3LSMT807T	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.247 802.11a/b/g/n/ac MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1407301585.A3L	Test Dates: 06/17 - 08/5/2014	EUT Type: Portable Tablet		Page 110 of 121

Radiated Restricted Band Edge Measurements

\$15.205 \$15.209

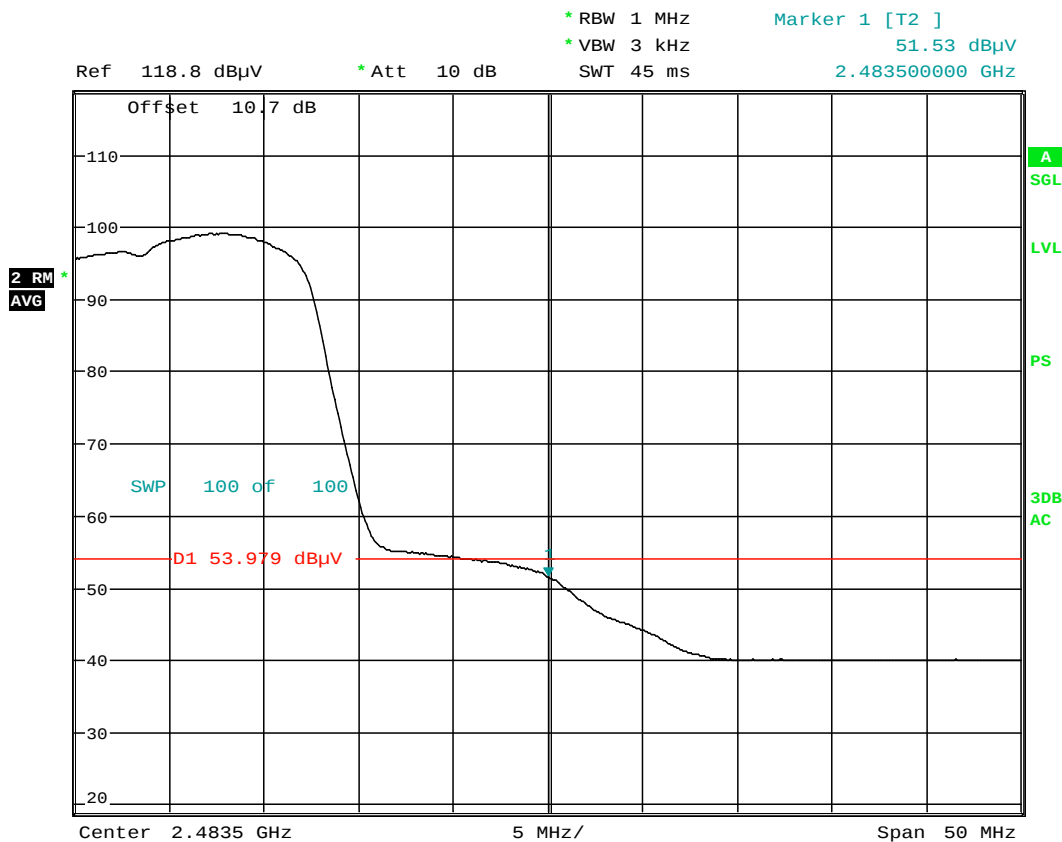
Worst Case Mode: 802.11g

Worst Case Transfer Rate: 6 Mbps

Distance of Measurements: 3 Meters

Operating Frequency: 2462MHz

Channel: 11



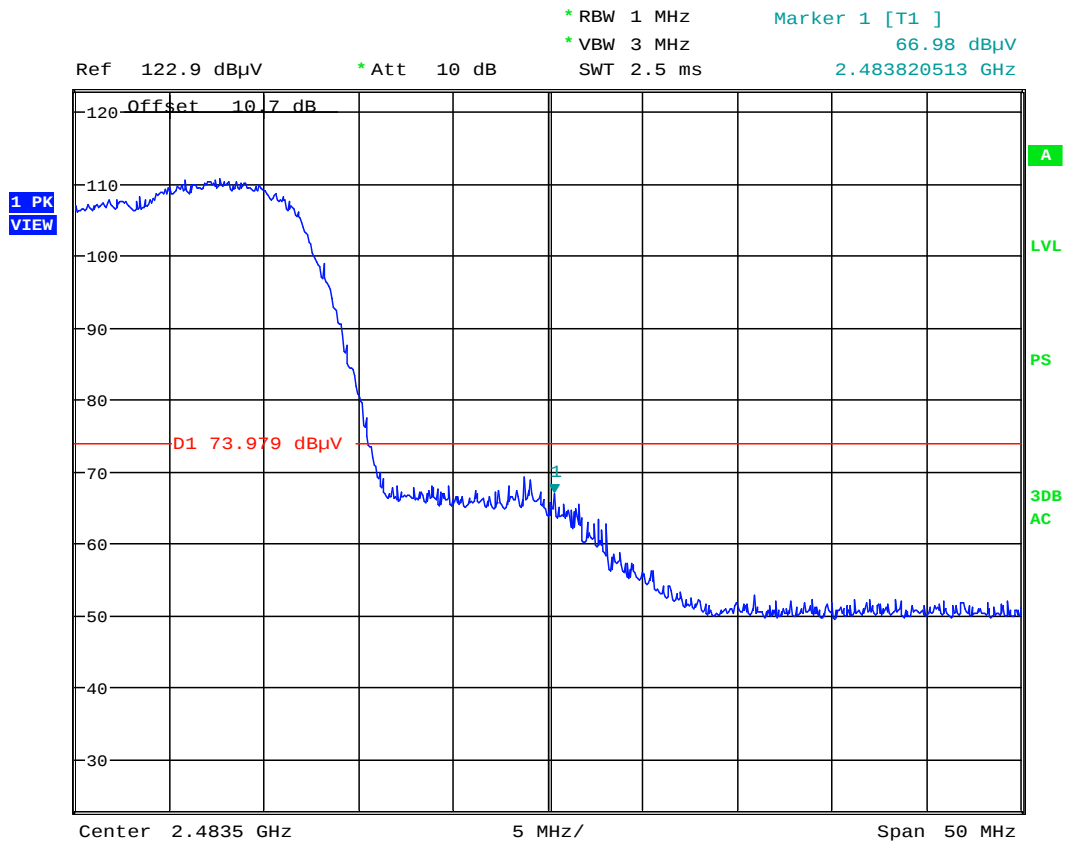
Date: 24.JUN.2014 16:21:48

Plot 6-131. Radiated Restricted Upper Band Edge Measurement (Average)

FCC ID: A3LSMT807T	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.247 802.11a/b/g/n/ac MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1407301585.A3L	Test Dates: 06/17 - 08/5/2014	EUT Type: Portable Tablet		Page 111 of 121

Radiated Restricted Band Edge Measurements

\$15.205 \$15.209



Date: 24.JUN.2014 16:22:07

Plot 6-132. Radiated Restricted Upper Band Edge Measurement (Peak)

FCC ID: A3LSMT807T	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.247 802.11a/b/g/n/ac MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1407301585.A3L	Test Dates: 06/17 - 08/5/2014	EUT Type: Portable Tablet		Page 112 of 121

6.10 MIMO Radiated Restricted Band Edge Measurements

§15.205 §15.209

The radiated restricted band edge measurements are measured with an EMI test receiver connected to the receive antenna while the EUT is transmitting.

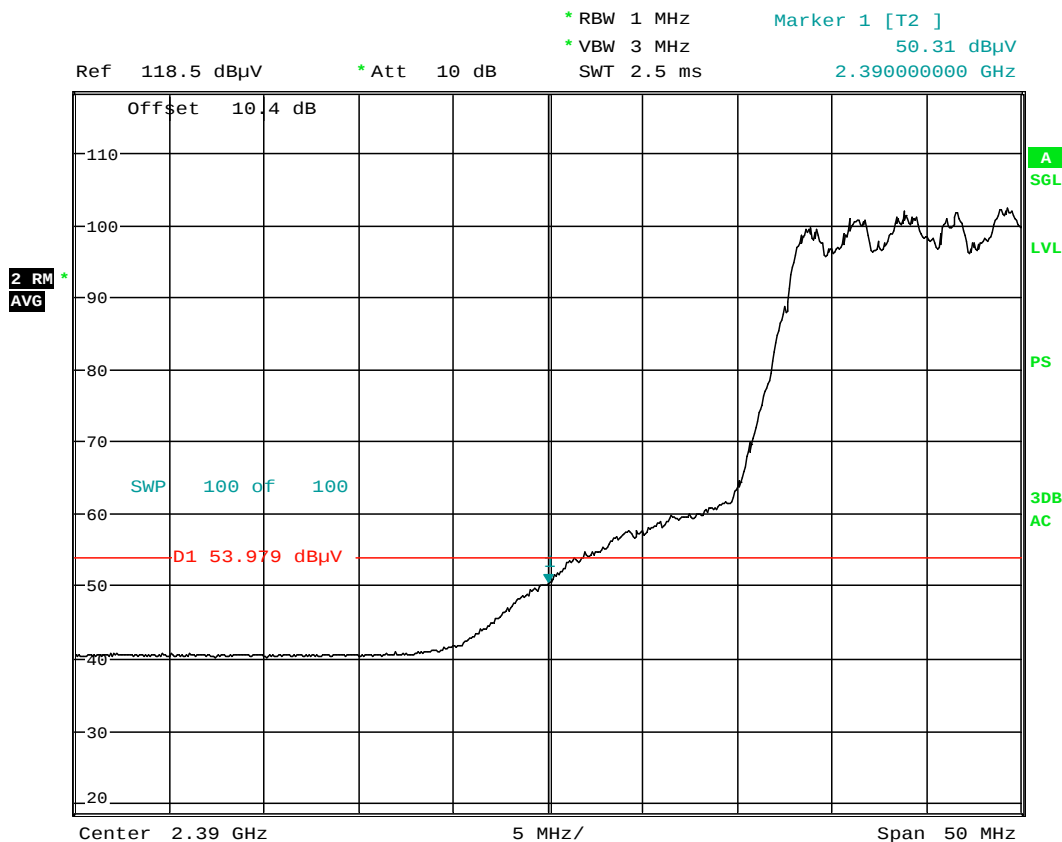
Worst Case Mode: 802.11n

Worst Case Transfer Rate: MCS8

Distance of Measurements: 3 Meters

Operating Frequency: 2412MHz

Channel: 1



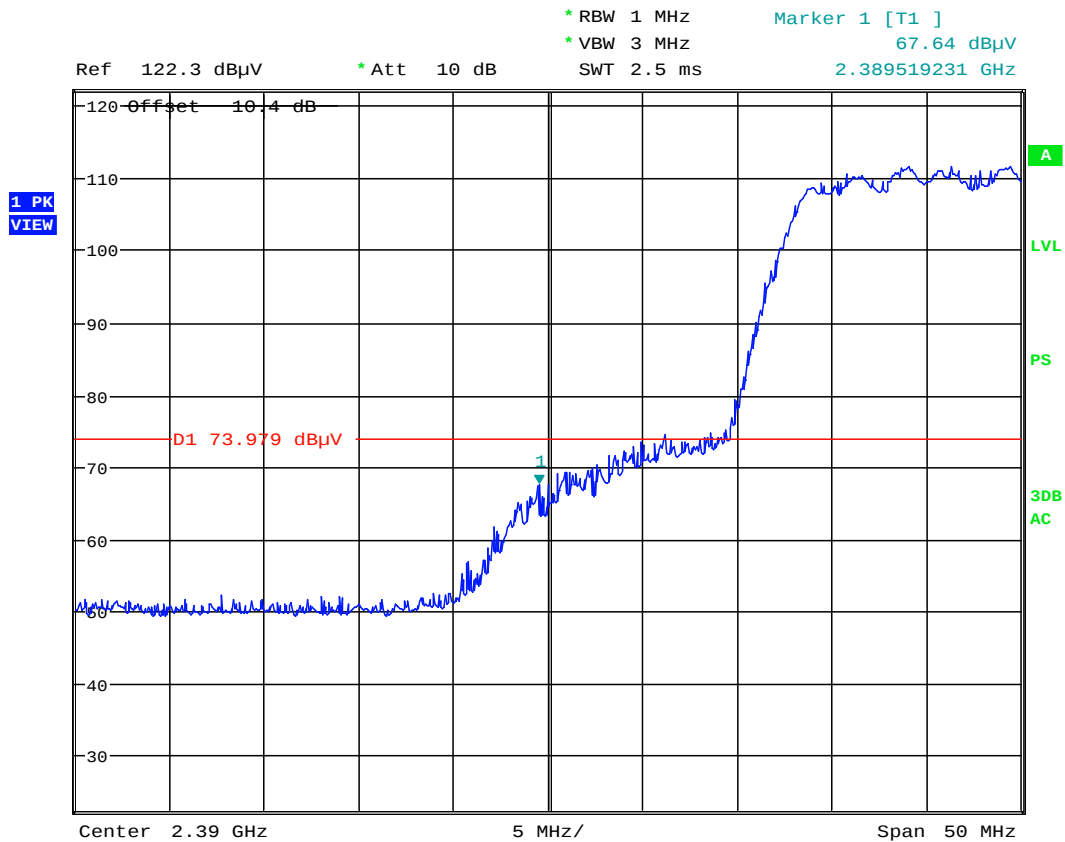
Date: 24.JUN.2014 16:27:32

Plot 6-133. Radiated Restricted Lower Band Edge Measurement (Average)

FCC ID: A3LSMT807T	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.247 802.11a/b/g/n/ac MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1407301585.A3L	Test Dates: 06/17 - 08/5/2014	EUT Type: Portable Tablet		Page 113 of 121

Radiated Restricted Band Edge Measurements

\$15.205 \$15.209



Date: 24.JUN.2014 16:27:50

Plot 6-134. Radiated Restricted Lower Band Edge Measurement (Peak)

FCC ID: A3LSMT807T	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.247 802.11a/b/g/n/ac MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1407301585.A3L	Test Dates: 06/17 - 08/5/2014	EUT Type: Portable Tablet		Page 114 of 121

Radiated Restricted Band Edge Measurements

\$15.205 \$15.209

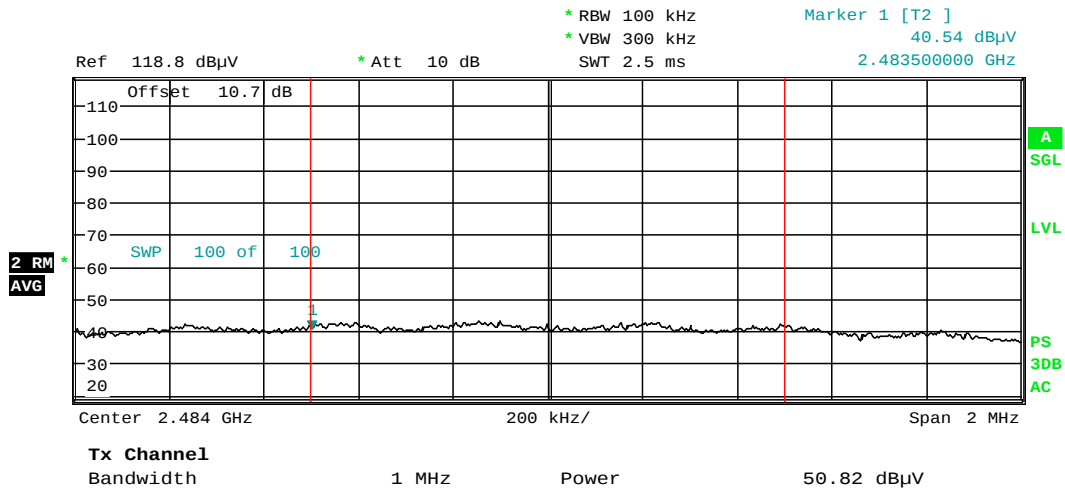
Worst Case Mode: 802.11n

Worst Case Transfer Rate: MCS8

Distance of Measurements: 3 Meters

Operating Frequency: 2462MHz

Channel: 11



Date: 24.JUN.2014 16:32:11

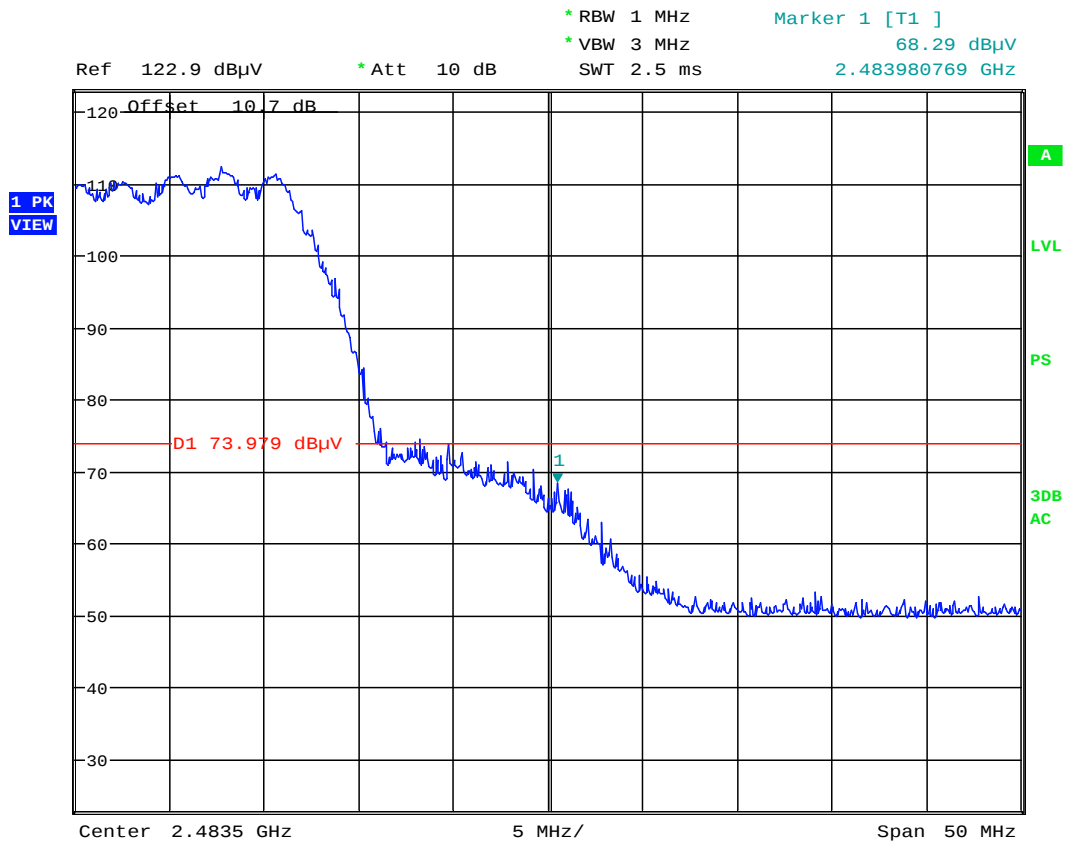
Plot 6-135. Radiated Restricted Upper Band Edge Measurement (Average)

Note: Per KDB 558074 Section13.3.1 the integration method was used to measure the plot above.

FCC ID: A3LSMT807T	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.247 802.11a/b/g/n/ac MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1407301585.A3L	Test Dates: 06/17 - 08/5/2014	EUT Type: Portable Tablet		Page 115 of 121

Radiated Restricted Band Edge Measurements

\$15.205 \$15.209



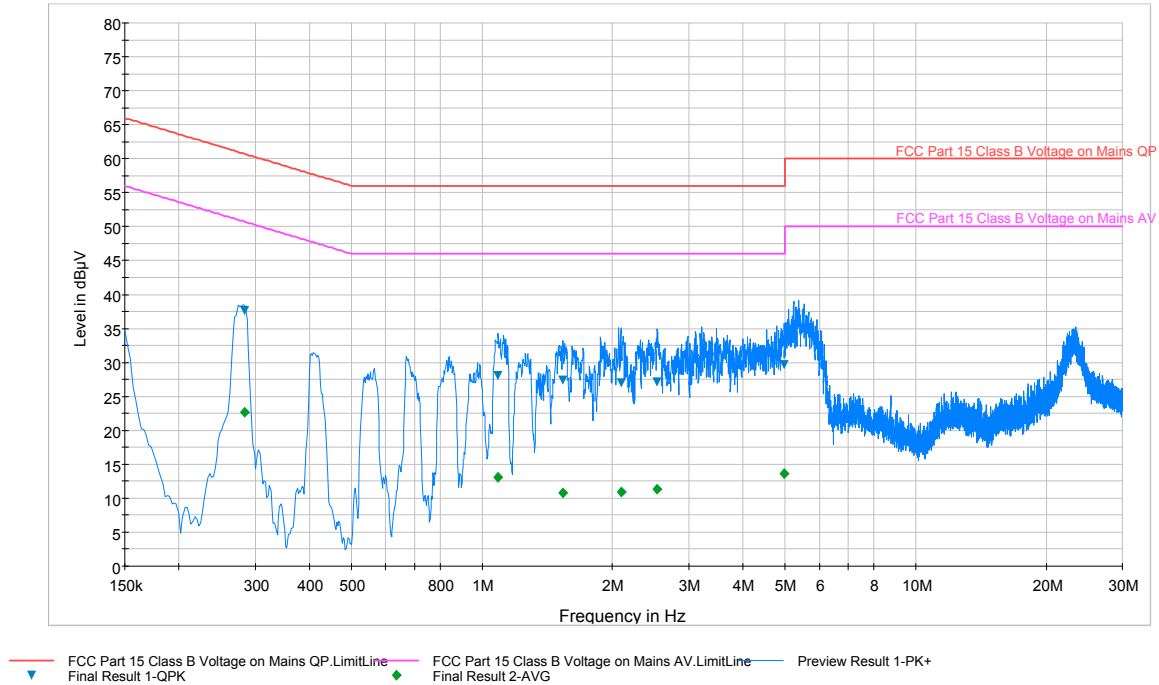
Date: 24.JUN.2014 16:32:30

Plot 6-136. Radiated Restricted Upper Band Edge Measurement (Peak)

FCC ID: A3LSMT807T	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.247 802.11a/b/g/n/ac MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1407301585.A3L	Test Dates: 06/17 - 08/5/2014	EUT Type: Portable Tablet		Page 116 of 121

6.11 Line-Conducted Test Data

§15.207



Plot 6-137. Line Conducted Plot with 802.11b (L1)

Frequency MHz	Line	Corr. dB	QuasiPeak dBμV	Limit dBμV	Margin dB	Average dBμV	Limit dBμV	Margin dB
0.283	L1	0.1	37.70	60.70	23.10	22.60	50.70	28.10
1.088	L1	0.1	28.10	56.00	27.90	13.10	46.00	32.90
1.536	L1	0.1	27.40	56.00	28.60	10.80	46.00	35.20
2.092	L1	0.1	27.00	56.00	29.00	10.90	46.00	35.10
2.537	L1	0.1	27.10	56.00	28.90	11.40	46.00	34.60
4.967	L1	0.2	29.70	56.00	26.30	13.60	46.00	32.40

Table 6-50. Line Conducted Data with 802.11b (L1)

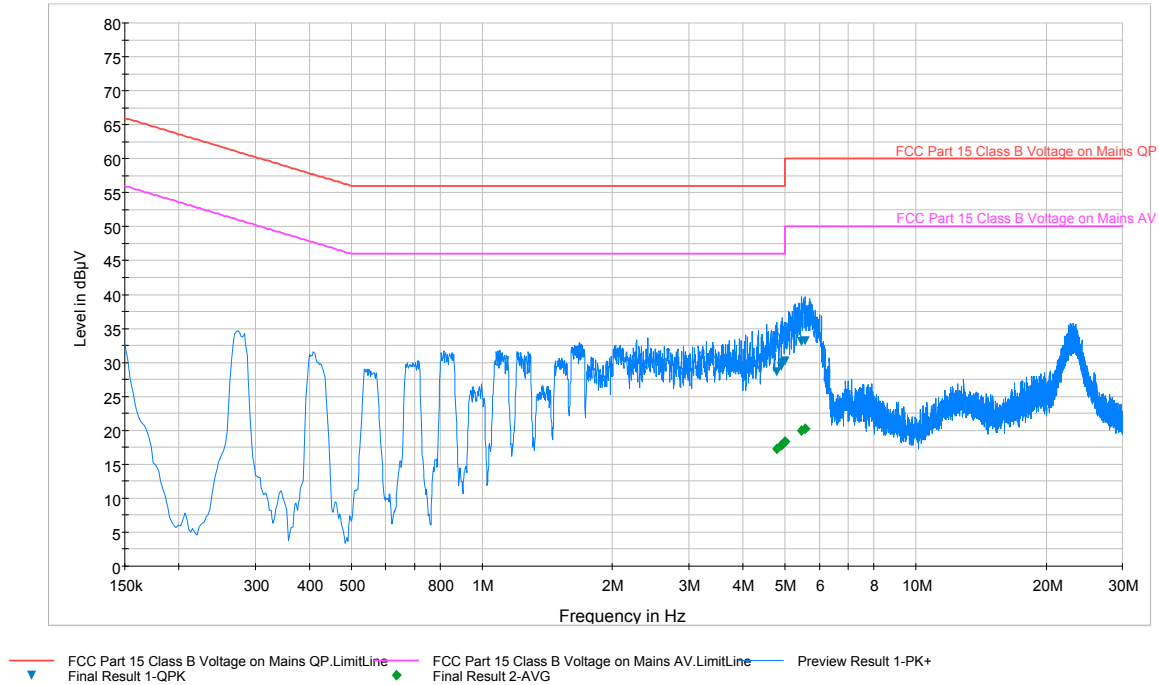
Notes:

1. All modes of operation, data rates, and test channels were investigated and the worst-case emissions are reported in 802.11b mode using 1Mbps on Channel 6. 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. Factor (dB) = Cable loss (dB) + LISN insertion factor (dB)
4. QP/AV Level (dBμV) = QP/AV Analyzer/Receiver Level (dBμV) + Factor (dB)
5. Margin (dB) = QP/AV Limit (dBμV) – QP/AV Level (dBμV)
6. Traces shown in plot are made using a peak detector.
7. Deviations to the Specifications: None.

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Plot 6-138. Line Conducted Plot with 802.11b (N)

Frequency MHz	Line	Corr. dB	QuasiPeak dBμV	Limit dBμV	Margin dB	Average dBμV	Limit dBμV	Margin dB
4.787	N	0.2	28.60	56.00	27.40	17.20	46.00	28.80
4.909	N	0.2	29.40	56.00	26.60	17.80	46.00	28.20
4.929	N	0.2	29.90	56.00	26.10	18.00	46.00	28.00
4.988	N	0.2	30.20	56.00	25.80	18.30	46.00	27.70
5.451	N	0.2	33.10	60.00	26.90	19.90	50.00	30.10
5.552	N	0.2	33.20	60.00	26.80	20.20	50.00	29.80

Table 6-51. Line Conducted Data with 802.11b (N)

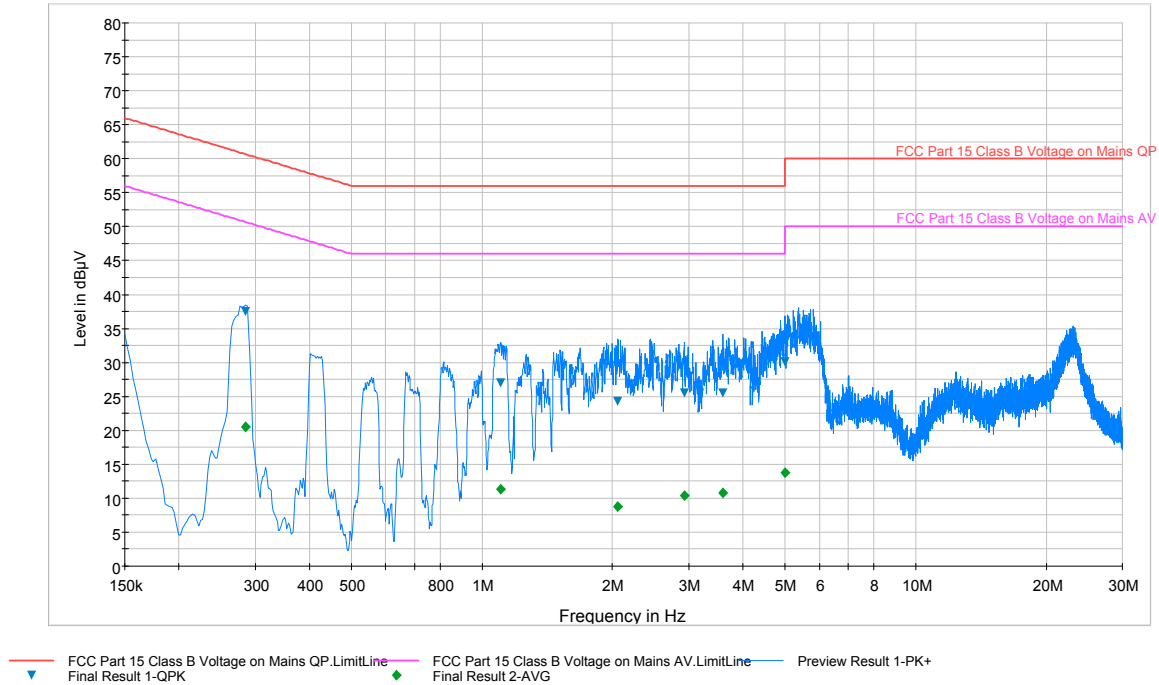
Notes:

1. All modes of operation, data rates, and test channels were investigated and the worst-case emissions are reported in 802.11b mode using 1Mbps on Channel 6. 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. Factor (dB) = Cable loss (dB) + LISN insertion factor (dB)
4. QP/AV Level (dBμV) = QP/AV Analyzer/Receiver Level (dBμV) + Factor (dB)
5. Margin (dB) = QP/AV Limit (dBμV) – QP/AV Level (dBμV)
6. Traces shown in plot are made using a peak detector.
7. Deviations to the Specifications: None.

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Plot 6-139. Line Conducted Plot with 802.11a (L1)

Frequency MHz	Line	Corr. dB	QuasiPeak dBμV	Limit dBμV	Margin dB	Average dBμV	Limit dBμV	Margin dB
0.285	L1	0.1	37.60	60.70	23.10	20.50	50.70	30.20
1.102	L1	0.1	26.90	56.00	29.10	11.30	46.00	34.70
2.060	L1	0.1	24.30	56.00	31.70	8.80	46.00	37.20
2.927	L1	0.2	25.50	56.00	30.50	10.30	46.00	35.70
3.590	L1	0.2	25.50	56.00	30.50	10.80	46.00	35.20
4.997	L1	0.2	30.00	56.00	26.00	13.80	46.00	32.20

Table 6-52. Line Conducted Data with 802.11a (L1)

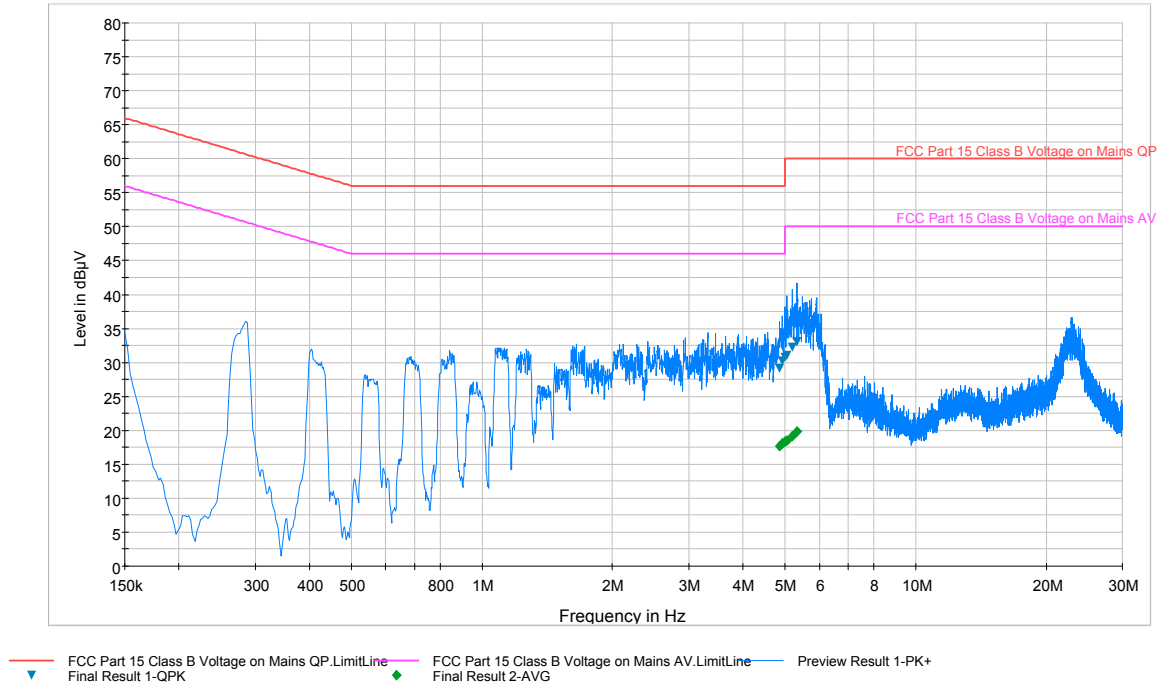
Notes:

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 157. 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. Factor (dB) = Cable loss (dB) + LISN insertion factor (dB)
4. QP/AV Level (dBμV) = QP/AV Analyzer/Receiver Level (dBμV) + Factor (dB)
5. Margin (dB) = QP/AV Limit (dBμV) – QP/AV Level (dBμV)
6. Traces shown in plot are made using a peak detector.
7. Deviations to the Specifications: None.

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Plot 6-140. Line Conducted Plot with 802.11a (N)

Frequency MHz	Line	Corr. dB	QuasiPeak dBμV	Limit dBμV	Margin dB	Average dBμV	Limit dBμV	Margin dB
4.862	N	0.2	29.10	56.00	26.90	17.70	46.00	28.30
4.931	N	0.2	30.30	56.00	25.70	18.10	46.00	27.90
4.999	N	0.2	30.80	56.00	25.20	18.40	46.00	27.60
5.048	N	0.2	31.00	60.00	29.00	18.50	50.00	31.50
5.190	N	0.2	32.20	60.00	27.80	19.20	50.00	30.80
5.332	N	0.2	33.10	60.00	26.90	19.80	50.00	30.20

Table 6-53. Line Conducted Data with 802.11a (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 157. 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. Factor (dB) = Cable loss (dB) + LISN insertion factor (dB)
4. QP/AV Level (dBμV) = QP/AV Analyzer/Receiver Level (dBμV) + Factor (dB)
5. Margin (dB) = QP/AV Limit (dBμV) – QP/AV Level (dBμV)
6. Traces shown in plot are made using a peak detector.
7. Deviations to the Specifications: None.

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7.0 CONCLUSION

The data collected relate only the item(s) tested and show that the **Samsung Portable Tablet FCC ID: A3LSMT807T** is in compliance with Part 15C of the FCC Rules.

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