

## 6.5 Peak Excursion Ratio – 802.11a/n/ac §15.407(a.6)

### Test Overview and Limit

The spectrum analyzer was connected to the antenna terminal while the EUT was operating at its maximum duty cycle (>98%), at its maximum power control level, as defined in KDB 789033 v01r03, and at the appropriate frequencies. Method SA-1, as defined in KDB 789033 v01r03, was used to capture the average trace used to make the peak excursion measurement.

***The largest permissible difference between the modulation envelope (measured using a peak hold function) and the maximum power spectral density is 13 dBm/MHz.***

### Test Procedure Used

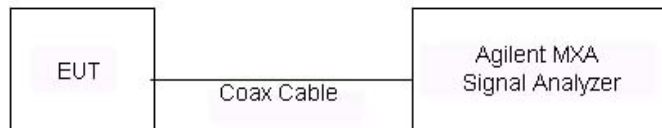
KDB 789033 v01r03 – Section G

### Test Settings

1. Analyzer was set to the center frequency of the UNII channel under investigation
2. Span was set to encompass the entire emission bandwidth of the signal
3. RBW = 1MHz
4. VBW = 3MHz
5. Detector = peak
6. Trace mode = max hold
7. Trace was allowed to stabilize
8. The peak search function of the spectrum analyzer was used to find the peak of the spectrum. This level was compared to the peak power density level found from the previous section to determine the peak excursion.

### Test Setup



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



**Figure 6-4. Test Instrument & Measurement Setup**

### Test Notes

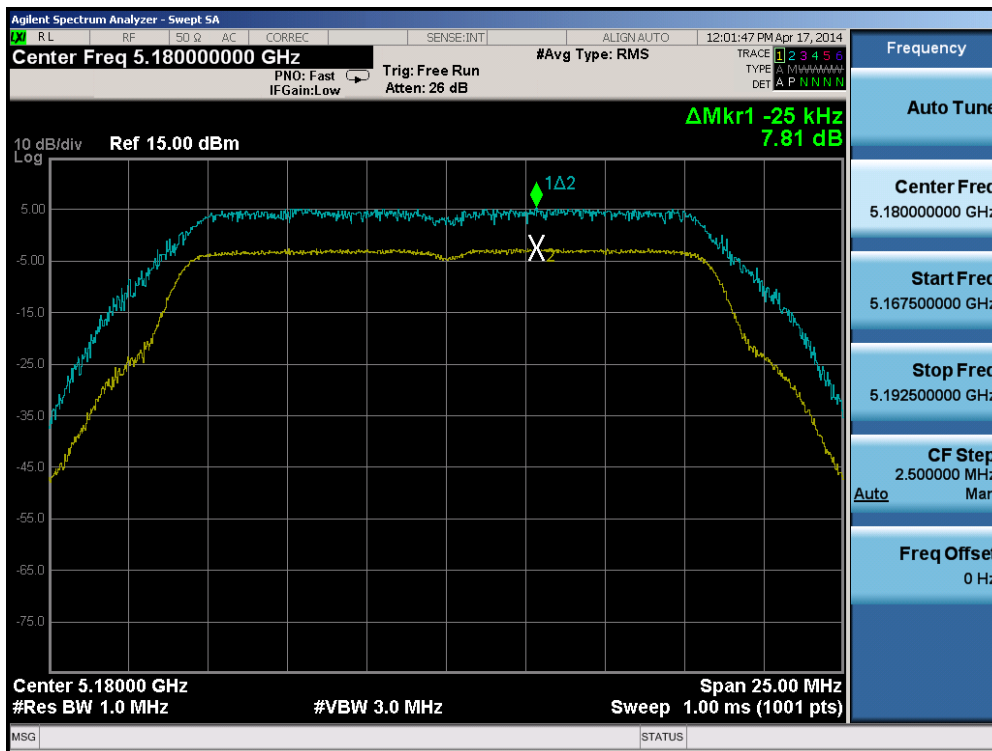
The peak excursion was investigated for all signal types, modulation types, channel bandwidths, and variations in signal parameters and the worst case data is shown below. Only the worst case modulation mode on a single channel among all bands is reported since that is sufficient to demonstrate compliance to the peak excursion requirement per KDB 789033 v01r03.

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### Antenna-1 Peak Excursion Ratio – 802.11a/n/ac

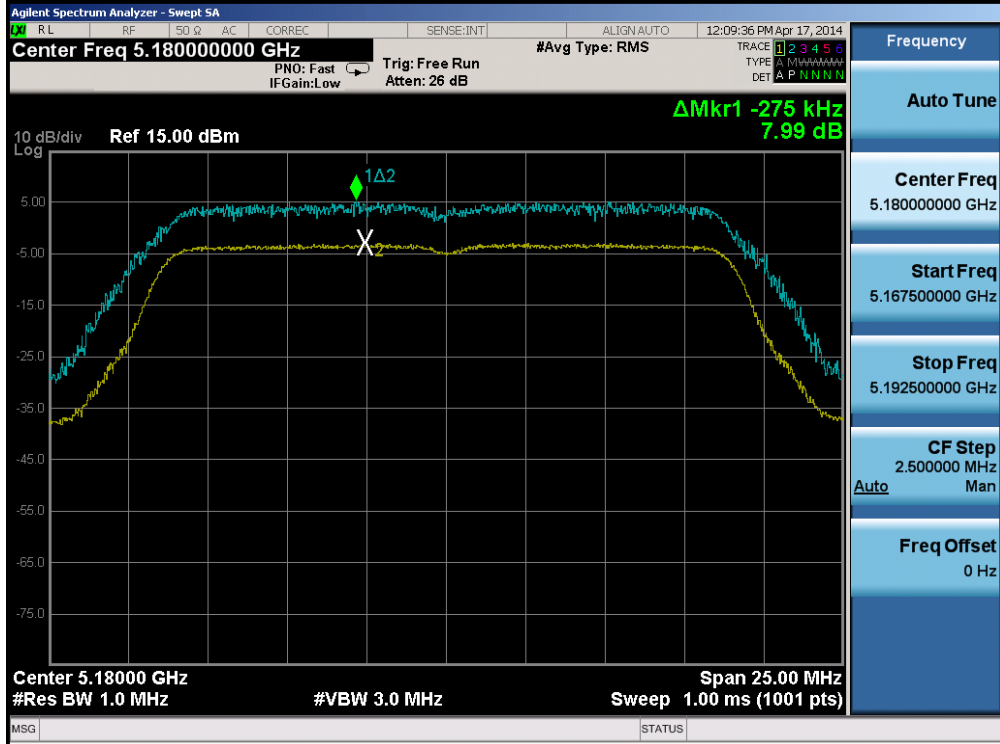
Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Measured Peak Excursion Ratio [dBm]	Max Permissible Peak Excursion Ratio [dBm/MHz]	Margin [dB]	Pass / Fail
5180	36	a	6	7.81	13.0	-5.19	Pass
5180	36	n (20MHz)	6.5/7.2 (MCS0)	7.99	13.0	-5.01	Pass
5190	38	n (40MHz)	13.5/15 (MCS0)	7.13	13.0	-5.87	Pass
5210	42	ac (80MHz)	58.5/65 (MCS0)	8.09	13.0	-4.91	Pass

Table 6-21. Conducted Peak Excursion Ratio Measurements

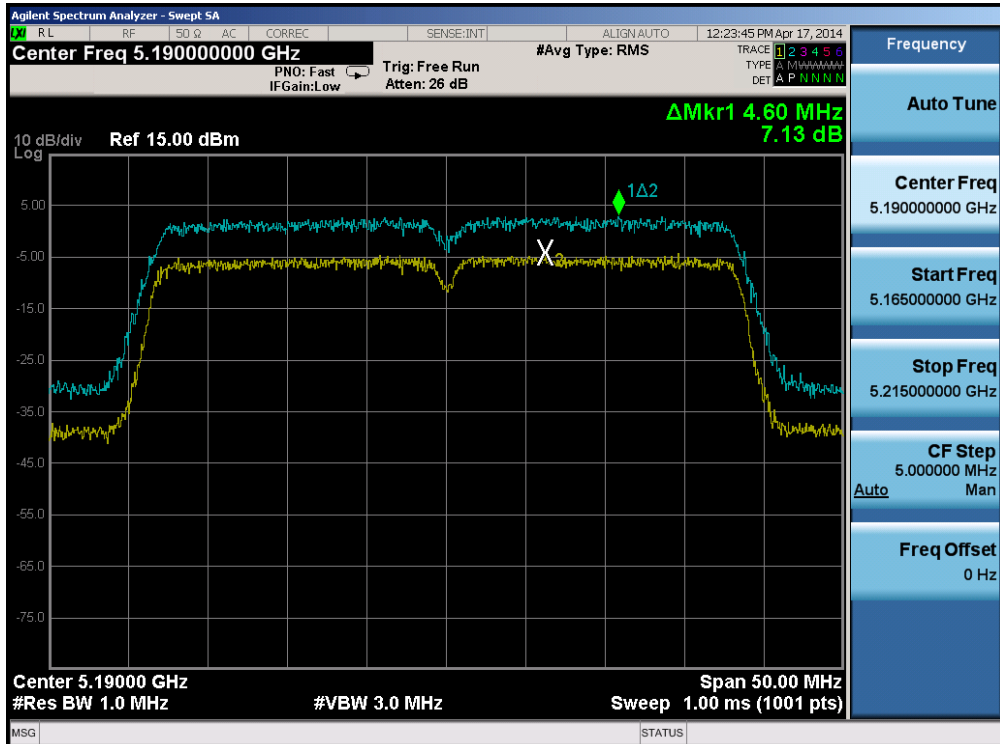


Plot 6-125. Peak Excursion Ratio Plot (802.11a (UNII Band 1) – Ch. 36)

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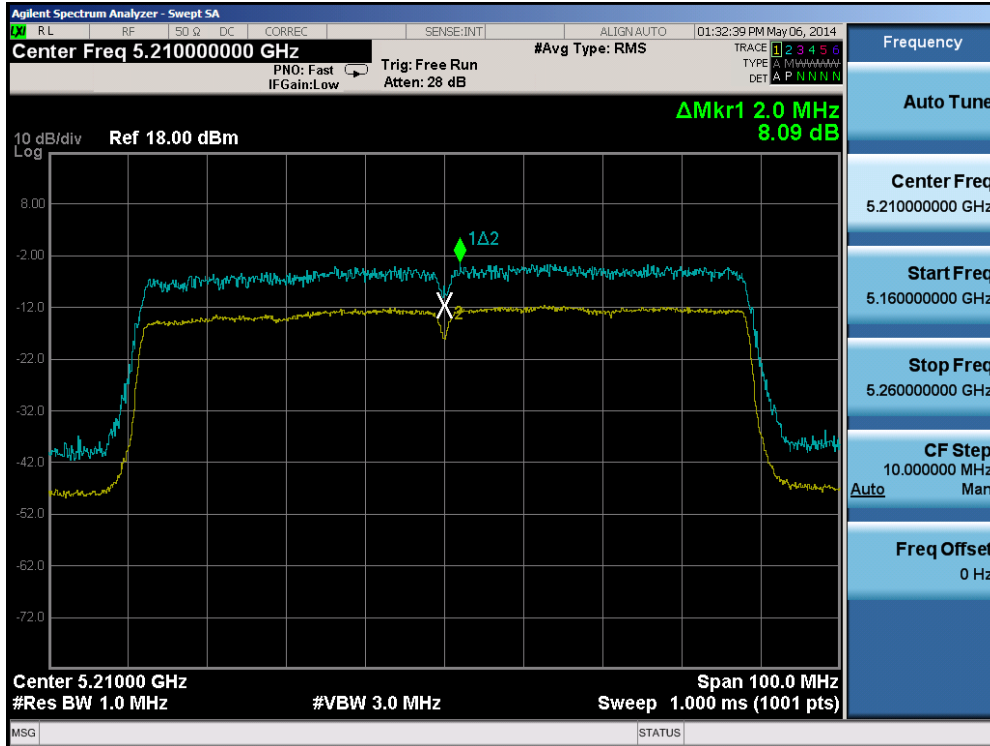


Plot 6-126. Peak Excursion Ratio Plot (20MHz BW 802.11n (UNII Band 1) – Ch. 36)





Plot 6-127. Peak Excursion Ratio Plot (40MHz BW 802.11n (UNII Band 1) – Ch. 38)

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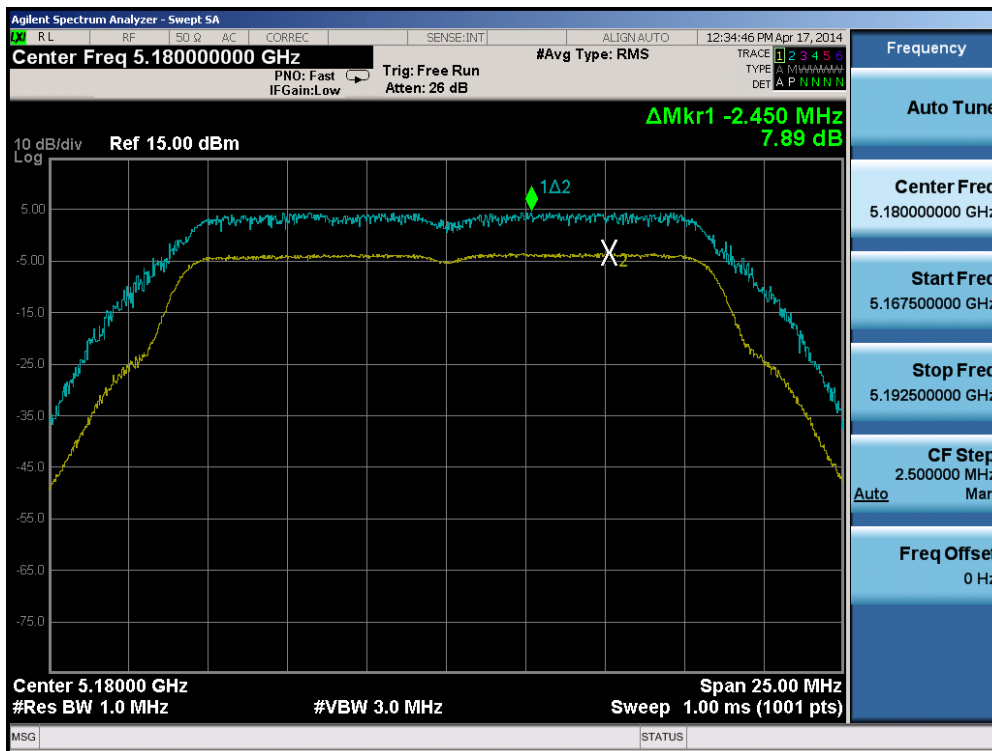
Plot 6-128. Peak Excursion Ratio Plot (80MHz BW 802.11ac (UNII Band 1) – Ch. 42)

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### Antenna-2 Peak Excursion Ratio – 802.11a/n/ac

Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Measured Peak Excursion Ratio [dBm]	Max Permissible Peak Excursion Ratio [dBm/MHz]	Margin [dB]	Pass / Fail
5180	36	a	6	7.89	13.0	-5.11	Pass
5180	36	n (20MHz)	6.5/7.2 (MCS0)	7.89	13.0	-5.11	Pass
5190	38	n (40MHz)	13.5/15 (MCS0)	8.39	13.0	-4.61	Pass
5210	42	ac (80MHz)	29.3/32.5 (MCS0)	8.78	13.0	-4.23	Pass

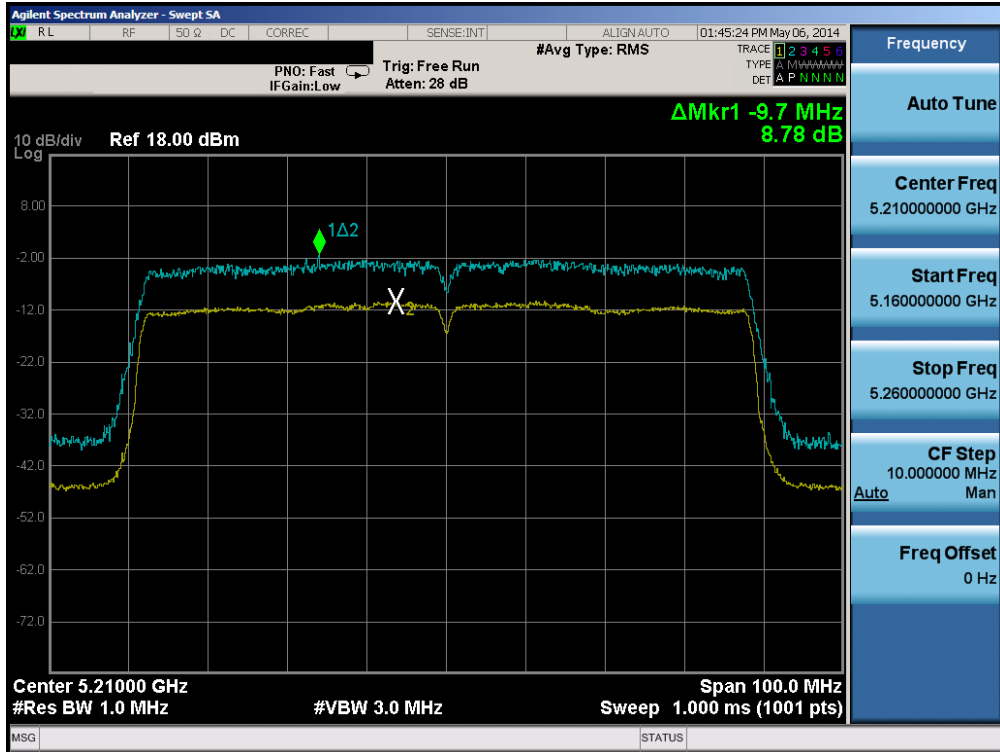
Table 6-22. Conducted Peak Excursion Ratio Measurements



Plot 6-129. Peak Excursion Ratio Plot (802.11a (UNII Band 1) – Ch. 36)

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Plot 6-132. Peak Excursion Ratio Plot (80MHz BW 802.11ac (UNII Band 1) – Ch. 42)

FCC ID: A3LSMT705M	<b>PCTEST</b> ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Reviewed by: Quality Manager
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## 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: 3.80 VDC

VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQUENCY (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.80	+ 20 (Ref)	5,179,999,980	-20	-0.00000039
100 %		- 30	5,180,000,011	11	0.00000021
100 %		- 20	5,179,999,996	-4	-0.00000008
100 %		- 10	5,179,999,988	-12	-0.00000023
100 %		0	5,179,999,995	-5	-0.00000010
100 %		+ 10	5,180,000,019	19	0.00000037
100 %		+ 20	5,179,999,999	-1	-0.00000002
100 %		+ 30	5,180,000,020	20	0.00000039
100 %		+ 40	5,179,999,997	-3	-0.00000006
100 %		+ 50	5,180,000,021	21	0.00000041
115 %		4.37	+ 20	5,180,000,019	19
BATT. ENDPOINT	3.40	+ 20	5,179,999,987	-13	-0.00000025

**Table 6-23. Frequency Stability Measurements for UNII Band 1 (Ch. 36)**

#### Note:

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency deviation noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

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## 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: 5,260,000,000 Hz  
 CHANNEL: 52  
 REFERENCE VOLTAGE: 3.80 VDC

VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQUENCY (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.80	+ 20 (Ref)	5,259,999,991	-9	-0.00000017
100 %		- 30	5,260,000,014	14	0.00000027
100 %		- 20	5,259,999,988	-12	-0.00000023
100 %		- 10	5,260,000,002	2	0.00000004
100 %		0	5,259,999,993	-7	-0.00000013
100 %		+ 10	5,260,000,018	18	0.00000034
100 %		+ 20	5,260,000,016	16	0.00000030
100 %		+ 30	5,260,000,012	12	0.00000023
100 %		+ 40	5,259,999,976	-24	-0.00000046
100 %		+ 50	5,260,000,027	27	0.00000051
115 %	4.37	+ 20	5,259,999,999	-1	-0.00000002
BATT. ENDPOINT	3.40	+ 20	5,259,999,986	-14	-0.00000027

**Table 6-24. Frequency Stability Measurements for UNII Band 2A (Ch. 52)**

#### Note:

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency deviation noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

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## 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: 5,500,000,000 Hz  
 CHANNEL: 100  
 REFERENCE VOLTAGE: 3.80 VDC

VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQUENCY (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.80	+ 20 (Ref)	5,499,999,999	-1	-0.00000002
100 %		- 30	5,499,999,984	-16	-0.00000029
100 %		- 20	5,499,999,998	-2	-0.00000004
100 %		- 10	5,500,000,010	10	0.00000018
100 %		0	5,500,000,004	4	0.00000007
100 %		+ 10	5,499,999,998	-2	-0.00000004
100 %		+ 20	5,499,999,994	-6	-0.00000011
100 %		+ 30	5,500,000,003	3	0.00000005
100 %		+ 40	5,500,000,018	18	0.00000033
100 %		+ 50	5,499,999,984	-16	-0.00000029
115 %		4.37	+ 20	5,499,999,992	-8
BATT. ENDPOINT	3.40	+ 20	5,499,999,982	-18	-0.00000033

**Table 6-25. Frequency Stability Measurements for UNII Band 2C (Ch. 100)**

#### Note:

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency deviation noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

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## 6.7 Radiated Spurious Emission Measurements

§15.407(b.1)(b.6) §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 its maximum power control level, as defined in KDB 789033 v01r03, and at the appropriate frequencies. All channels, modes (e.g. 802.11a, 802.11n (20MHz BW) and 802.11n (40MHz BW)), and modulations/data rates were investigated among all UNII bands. 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 6-26 per Section 15.209.***

Frequency	Field Strength [ $\mu$ V/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 6-26. Radiated Limits**



### Test Procedures Used

KDB 789033 v01r03 – Section H

### Test Settings

#### Average Measurements above 1GHz (Method AD)

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  $\geq 2 \times$  span/RBW)
6. Averaging type = power (RMS)
7. Sweep time = auto couple
8. Trace was averaged over 100 sweeps

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### Peak Measurements above 1GHz

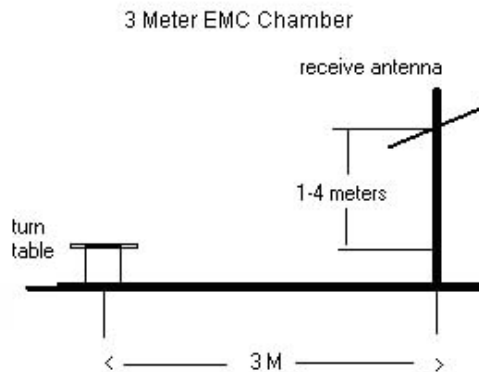
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

### Peak Measurements below 1GHz



1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. Span was set greater than 1MHz
3. RBW = 120kHz
4. Detector = CISPR quasi-peak
5. Sweep time = auto couple
6. 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**

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## Test Notes

1. All radiated spurious emissions levels were measured in a radiated test setup per the guidance of KDB 789033 v01r03 Section H.
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 6-26.
3. All spurious emissions lying in restricted bands specified in §15.205 are below the limit shown in Table 6-11. All spurious emissions 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 dB $\mu$ 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 $\mu$ V/m.
4. The antenna is manipulated through typical positions, polarity and length during the tests. The EUT is manipulated through three orthogonal planes.
5. This unit was tested with its standard battery.
6. 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.
7. 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

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

### Radiated Band Edge Measurement Offset

- 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 §15.407(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: 1 & 3 Meters  
 Operating Frequency: 5180MHz  
 Channel: 36



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]
10360.00	-97.08	Peak	H	H	46.86	0.00	56.78	68.20	-11.42
* 15540.00	-117.70	Average	H	H	50.97	0.00	40.27	53.98	-13.71
* 15540.00	-105.10	Peak	H	H	50.97	0.00	52.87	73.98	-21.11
* 20720.00	-99.64	Average	V	V	44.00	-9.54	41.82	53.98	-12.16
* 20720.00	-96.31	Peak	V	V	44.00	-9.54	45.15	73.98	-28.83
25900.00	-103.25	Peak	V	V	44.87	-9.54	39.08	68.20	-29.12

**Table 6-27. Radiated Measurements**

Worst Case Mode: 802.11a  
 Worst Case Transfer Rate: 6 Mbps  
 Distance of Measurements: 1 & 3 Meters  
 Operating Frequency: 5200MHz  
 Channel: 40

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]
10400.00	-97.65	Peak	H	H	46.81	0.00	56.17	68.20	-12.03
* 15600.00	-117.84	Average	H	H	51.01	0.00	40.18	53.98	-13.80
* 15600.00	-104.85	Peak	H	H	51.01	0.00	53.17	73.98	-20.81
* 20800.00	-97.63	Average	V	V	43.99	-9.54	43.81	53.98	-10.17
* 20800.00	-94.41	Peak	V	V	43.99	-9.54	47.03	73.98	-26.95
26000.00	-103.31	Peak	V	V	44.97	-9.54	39.12	68.20	-29.08

**Table 6-28. 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: 5240MHz  
 Channel: 48

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]
10480.00	-99.64	Peak	H	H	46.73	0.00	54.09	68.20	-14.11
* 15720.00	-117.62	Average	H	H	49.90	0.00	39.28	53.98	-14.70
* 15720.00	-105.48	Peak	H	H	49.90	0.00	51.42	73.98	-22.56
* 20960.00	-100.28	Average	V	V	43.90	-9.54	41.07	53.98	-12.91
* 20960.00	-97.07	Peak	V	V	43.90	-9.54	44.28	73.98	-29.70
26200.00	-102.66	Peak	V	V	44.76	-9.54	39.55	68.20	-28.65



**Table 6-29. Radiated Measurements**

Worst Case Mode: 802.11a  
 Worst Case Transfer Rate: 6 Mbps  
 Distance of Measurements: 1 & 3 Meters  
 Operating Frequency: 5260MHz  
 Channel: 52

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]
10520.00	-100.81	Peak	H	H	46.70	0.00	52.89	68.20	-15.31
* 15780.00	-118.26	Average	H	H	49.90	0.00	38.65	53.98	-15.33
* 15780.00	-105.36	Peak	H	H	49.90	0.00	51.55	73.98	-22.43
* 21040.00	-101.98	Average	V	V	43.84	-9.54	39.32	53.98	-14.66
* 21040.00	-99.05	Peak	V	V	43.84	-9.54	42.25	73.98	-31.73
26300.00	-102.93	Peak	V	V	44.78	-9.54	39.31	68.20	-28.89

**Table 6-30. Radiated Measurements**

Worst Case Mode: 802.11a

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Worst Case Transfer Rate: 6 Mbps  
 Distance of Measurements: 1 & 3 Meters  
 Operating Frequency: 5280MHz  
 Channel: 56



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]
10560.00	-98.30	Peak	H	H	46.84	0.00	55.54	68.20	-12.66
* 15840.00	-118.48	Average	H	H	50.07	0.00	38.58	53.98	-15.40
* 15840.00	-105.78	Peak	H	H	50.07	0.00	51.28	73.98	-22.70
* 21120.00	-102.43	Average	V	V	43.74	-9.54	38.77	53.98	-15.21
* 21120.00	-100.06	Peak	V	V	43.74	-9.54	41.14	73.98	-32.84
26400.00	-102.15	Peak	V	V	44.72	-9.54	40.02	68.20	-28.18

**Table 6-31. Radiated Measurements**

Worst Case Mode: 802.11a  
 Worst Case Transfer Rate: 6 Mbps  
 Distance of Measurements: 1 & 3 Meters  
 Operating Frequency: 5320MHz  
 Channel: 64

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]
* 10640.00	-112.66	Average	H	H	47.16	0.00	41.50	53.98	-12.48
* 10640.00	-100.66	Peak	H	H	47.16	0.00	53.50	73.98	-20.48
* 15960.00	-119.34	Average	H	H	49.71	0.00	37.37	53.98	-16.61
* 15960.00	-107.34	Peak	H	H	49.71	0.00	49.37	73.98	-24.61
* 21280.00	-104.22	Average	V	V	43.64	-9.54	36.88	53.98	-17.10
* 21280.00	-100.79	Peak	V	V	43.64	-9.54	40.31	73.98	-33.67
26600.00	-124.77	Peak	V	V	47.28	-9.54	19.97	68.20	-48.23

**Table 6-32. Radiated Measurements**

FCC ID: A3LSMT705M		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1404300885.A3L	Test Dates: 4/11 - 5/8/2014	EUT Type: Portable Tablet	Page 103 of 182	

Worst Case Mode: 802.11a  
 Worst Case Transfer Rate: 6 Mbps  
 Distance of Measurements: 1 & 3 Meters  
 Operating Frequency: 5500MHz  
 Channel: 100

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]
* 11000.00	-114.03	Average	H	H	47.11	0.00	40.08	53.98	-13.90
* 11000.00	-101.36	Peak	H	H	47.11	0.00	52.75	73.98	-21.23
16500.00	-107.23	Peak	H	H	51.60	0.00	51.37	68.20	-16.83
22000.00	-97.98	Peak	V	V	43.92	-9.54	43.39	68.20	-24.81
27500.00	-126.05	Peak	V	V	48.51	-9.54	19.92	68.20	-48.28

**Table 6-33. Radiated Measurements**

Worst Case Mode: 802.11a  
 Worst Case Transfer Rate: 6 Mbps  
 Distance of Measurements: 1 & 3 Meters  
 Operating Frequency: 5580MHz  
 Channel: 116



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]
* 11160.00	-114.09	Average	H	H	47.43	0.00	40.35	53.98	-13.63
* 11160.00	-101.38	Peak	H	H	47.43	0.00	53.06	73.98	-20.92
16740.00	-107.51	Peak	H	H	52.71	0.00	52.20	68.20	-16.00
* 22320.00	-102.06	Average	V	V	44.40	-9.54	39.80	53.98	-14.18
* 22320.00	-98.71	Peak	V	V	44.40	-9.54	43.15	73.98	-30.83
27900.00	-126.44	Peak	V	V	48.13	-9.54	19.15	68.20	-49.05

**Table 6-34. Radiated Measurements**

Worst Case Mode: 802.11a  
 Worst Case Transfer Rate: 6 Mbps  
 Distance of Measurements: 1 & 3 Meters  
 Operating Frequency: 5700MHz  
 Channel: 140

Frequency [MHz]	Analyzer Level [dBm]	Detector	Ant. Pol. [H/V]	EUT Pol. [H/H2/V]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dB $\mu$ V/m]	Limit [dB $\mu$ V/m]	Margin [dB]
* 11400.00	-112.80	Average	H	H	47.68	0.00	41.89	53.98	-12.09
* 11400.00	-100.64	Peak	H	H	47.68	0.00	54.05	73.98	-19.93
17100.00	-108.27	Peak	H	H	54.03	0.00	52.76	68.20	-15.44
* 22800.00	-104.35	Average	V	V	44.39	-9.54	37.50	53.98	-16.48
* 22800.00	-100.69	Peak	V	V	44.39	-9.54	41.16	73.98	-32.82
28500.00	-125.76	Peak	V	V	48.03	-9.54	19.73	68.20	-48.47

**Table 6-35. Radiated Measurements**

FCC ID: A3LSMT705M		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1404300885.A3L	Test Dates: 4/11 - 5/8/2014	EUT Type: Portable Tablet	Page 105 of 182	

## Antenna-2 Radiated Spurious Emission Measurements

§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: 1 & 3 Meters  
 Operating Frequency: 5180MHz  
 Channel: 36



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]
10360.00	-93.83	Peak	H	H	46.86	0.00	60.03	68.20	-8.17
* 15540.00	-118.12	Average	H	H	50.97	0.00	39.85	53.98	-14.13
* 15540.00	-106.10	Peak	H	H	50.97	0.00	51.87	73.98	-22.11
* 20720.00	-102.87	Average	V	V	44.00	-9.54	38.59	53.98	-15.39
* 20720.00	-99.52	Peak	V	V	44.00	-9.54	41.94	73.98	-32.04
25900.00	-102.83	Peak	V	V	44.87	-9.54	39.50	68.20	-28.70

**Table 6-36. Radiated Measurements**

Worst Case Mode: 802.11a  
 Worst Case Transfer Rate: 6 Mbps  
 Distance of Measurements: 1 & 3 Meters  
 Operating Frequency: 5200MHz  
 Channel: 40

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]
10400.00	-91.85	Peak	H	H	46.81	0.00	61.97	68.20	-6.23
* 15600.00	-117.64	Average	H	H	51.01	0.00	40.38	53.98	-13.60
* 15600.00	-106.48	Peak	H	H	51.01	0.00	51.54	73.98	-22.44
* 20800.00	-101.30	Average	V	V	43.99	-9.54	40.14	53.98	-13.84
* 20800.00	-98.07	Peak	V	V	43.99	-9.54	43.37	73.98	-30.61
26000.00	-103.58	Peak	V	V	44.97	-9.54	38.85	68.20	-29.35

**Table 6-37. Radiated Measurements**

FCC ID: A3LSMT705M		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1404300885.A3L	Test Dates: 4/11 - 5/8/2014	EUT Type: Portable Tablet	Page 106 of 182	

Worst Case Mode: 802.11a  
 Worst Case Transfer Rate: 6 Mbps  
 Distance of Measurements: 1 & 3 Meters  
 Operating Frequency: 5240MHz  
 Channel: 48

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]
10480.00	-92.61	Peak	H	H	46.73	0.00	61.12	68.20	-7.08
* 15720.00	-118.32	Average	H	H	49.90	0.00	38.58	53.98	-15.40
* 15720.00	-106.77	Peak	H	H	49.90	0.00	50.13	73.98	-23.85
* 20960.00	-104.10	Average	V	V	43.90	-9.54	37.25	53.98	-16.73
* 20960.00	-100.68	Peak	V	V	43.90	-9.54	40.67	73.98	-33.31
26200.00	-102.39	Peak	V	V	44.76	-9.54	39.82	68.20	-28.38



**Table 6-38. Radiated Measurements**

Worst Case Mode: 802.11a  
 Worst Case Transfer Rate: 6 Mbps  
 Distance of Measurements: 1 & 3 Meters  
 Operating Frequency: 5260MHz  
 Channel: 52

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]
10520.00	-92.22	Peak	H	H	46.70	0.00	61.48	68.20	-6.72
* 15780.00	-119.86	Average	H	H	49.90	0.00	37.05	53.98	-16.93
* 15780.00	-107.61	Peak	H	H	49.90	0.00	49.30	73.98	-24.68
* 21040.00	-103.95	Average	V	V	43.84	-9.54	37.35	53.98	-16.63
* 21040.00	-100.19	Peak	V	V	43.84	-9.54	41.11	73.98	-32.87
26300.00	-103.18	Peak	V	V	44.78	-9.54	39.06	68.20	-29.14

**Table 6-39. Radiated Measurements**

Worst Case Mode: 802.11a

FCC ID: A3LSMT705M		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1404300885.A3L	Test Dates: 4/11 - 5/8/2014	EUT Type: Portable Tablet	Page 107 of 182	

Worst Case Transfer Rate: 6 Mbps  
 Distance of Measurements: 1 & 3 Meters  
 Operating Frequency: 5280MHz  
 Channel: 56



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]
10560.00	-92.31	Peak	H	H	46.84	0.00	61.53	68.20	-6.67
* 15840.00	-118.73	Average	H	H	50.07	0.00	38.33	53.98	-15.65
* 15840.00	-107.07	Peak	H	H	50.07	0.00	49.99	73.98	-23.99
* 21120.00	-104.62	Average	V	V	43.74	-9.54	36.58	53.98	-17.40
* 21120.00	-101.09	Peak	V	V	43.74	-9.54	40.11	73.98	-33.87
26400.00	-102.85	Peak	V	V	44.72	-9.54	39.32	68.20	-28.88

**Table 6-40. Radiated Measurements**

Worst Case Mode: 802.11a  
 Worst Case Transfer Rate: 6 Mbps  
 Distance of Measurements: 1 & 3 Meters  
 Operating Frequency: 5320MHz  
 Channel: 64

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]
* 10640.00	-105.66	Average	H	H	47.16	0.00	48.50	53.98	-5.48
* 10640.00	-92.26	Peak	H	H	47.16	0.00	61.90	73.98	-12.08
* 15960.00	-116.76	Average	H	H	49.71	0.00	39.95	53.98	-14.03
* 15960.00	-107.34	Peak	H	H	49.71	0.00	49.37	73.98	-24.61
* 21280.00	-106.20	Average	V	V	43.64	-9.54	34.90	53.98	-19.08
* 21280.00	-102.84	Peak	V	V	43.64	-9.54	38.26	73.98	-35.72
26600.00	-124.97	Peak	V	V	47.28	-9.54	19.77	68.20	-48.43

**Table 6-41. Radiated Measurements**

FCC ID: A3LSMT705M		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1404300885.A3L	Test Dates: 4/11 - 5/8/2014	EUT Type: Portable Tablet	Page 108 of 182	

Worst Case Mode: 802.11a  
 Worst Case Transfer Rate: 6 Mbps  
 Distance of Measurements: 1 & 3 Meters  
 Operating Frequency: 5500MHz  
 Channel: 100

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]
* 11000.00	-108.53	Average	H	H	47.11	0.00	45.58	53.98	-8.40
* 11000.00	-95.91	Peak	H	H	47.11	0.00	58.20	73.98	-15.78
16500.00	-107.93	Peak	H	H	51.60	0.00	50.67	68.20	-17.53
22000.00	-98.30	Peak	V	V	43.92	-9.54	43.07	68.20	-25.13
27500.00	-126.39	Peak	V	V	48.51	-9.54	19.58	68.20	-48.62

**Table 6-42. Radiated Measurements**

Worst Case Mode: 802.11a  
 Worst Case Transfer Rate: 6 Mbps  
 Distance of Measurements: 1 & 3 Meters  
 Operating Frequency: 5580MHz  
 Channel: 116



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]
* 11160.00	-110.15	Average	H	H	47.43	0.00	44.29	53.98	-9.69
* 11160.00	-97.75	Peak	H	H	47.43	0.00	56.69	73.98	-17.29
16740.00	-108.71	Peak	H	H	52.71	0.00	51.00	68.20	-17.20
* 22320.00	-102.23	Average	V	V	44.40	-9.54	39.63	53.98	-14.35
* 22320.00	-99.03	Peak	V	V	44.40	-9.54	42.83	73.98	-31.15
27900.00	-126.57	Peak	V	V	48.13	-9.54	19.02	68.20	-49.18

**Table 6-43. Radiated Measurements**

Worst Case Mode: 802.11a  
 Worst Case Transfer Rate: 6 Mbps  
 Distance of Measurements: 1 & 3 Meters  
 Operating Frequency: 5700MHz  
 Channel: 140

Frequency [MHz]	Analyzer Level [dBm]	Detector	Ant. Pol. [H/V]	EUT Pol. [H/H2/V]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dB $\mu$ V/m]	Limit [dB $\mu$ V/m]	Margin [dB]
* 11400.00	-109.04	Average	H	H	47.68	0.00	45.65	53.98	-8.33
* 11400.00	-96.14	Peak	H	H	47.68	0.00	58.55	73.98	-15.43
17100.00	-108.37	Peak	H	H	54.03	0.00	52.66	68.20	-15.54
* 22800.00	-105.02	Average	V	V	44.39	-9.54	36.83	53.98	-17.15
* 22800.00	-101.93	Peak	V	V	44.39	-9.54	39.92	73.98	-34.06
28500.00	-127.39	Peak	V	V	48.03	-9.54	18.10	68.20	-50.10

**Table 6-44. Radiated Measurements**

FCC ID: A3LSMT705M		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1404300885.A3L	Test Dates: 4/11 - 5/8/2014	EUT Type: Portable Tablet	Page 110 of 182	

## MIMO Radiated Spurious Emission Measurements

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

Worst Case Mode: 802.11n  
 Worst Case Transfer Rate: MCS8  
 Distance of Measurements: 1 & 3 Meters  
 Operating Frequency: 5180MHz  
 Channel: 36



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]
10360.00	-105.79	Peak	H	H	46.86	0.00	48.07	68.20	-20.13
* 15540.00	-118.40	Average	H	H	50.97	0.00	39.57	53.98	-14.41
* 15540.00	-106.74	Peak	H	H	50.97	0.00	51.23	73.98	-22.75
* 20720.00	-97.27	Average	V	V	44.00	-9.54	44.19	53.98	-9.79
* 20720.00	-93.76	Peak	V	V	44.00	-9.54	47.70	73.98	-26.28
25900.00	-103.83	Peak	V	V	44.87	-9.54	38.50	68.20	-29.70

**Table 6-45. Radiated Measurements**

Worst Case Mode: 802.11a  
 Worst Case Transfer Rate: 6 Mbps  
 Distance of Measurements: 1 & 3 Meters  
 Operating Frequency: 5200MHz  
 Channel: 40

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]
10400.00	-105.42	Peak	H	H	46.81	0.00	48.40	68.20	-19.80
* 15600.00	-118.35	Average	H	H	51.01	0.00	39.67	53.98	-14.31
* 15600.00	-106.67	Peak	H	H	51.01	0.00	51.35	73.98	-22.63
* 20800.00	-97.11	Average	V	V	43.99	-9.54	44.33	53.98	-9.65
* 20800.00	-93.60	Peak	V	V	43.99	-9.54	47.84	73.98	-26.14
26000.00	-103.70	Peak	V	V	44.97	-9.54	38.73	68.20	-29.47

**Table 6-46. Radiated Measurements**

FCC ID: A3LSMT705M		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1404300885.A3L	Test Dates: 4/11 - 5/8/2014	EUT Type: Portable Tablet	Page 111 of 182	

Worst Case Mode: 802.11a  
 Worst Case Transfer Rate: 6 Mbps  
 Distance of Measurements: 1 & 3 Meters  
 Operating Frequency: 5240MHz  
 Channel: 48



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]
10480.00	-105.26	Peak	H	H	46.73	0.00	48.47	68.20	-19.73
* 15720.00	-118.56	Average	H	H	49.90	0.00	38.34	53.98	-15.64
* 15720.00	-106.43	Peak	H	H	49.90	0.00	50.47	73.98	-23.51
* 20960.00	-100.71	Average	V	V	43.90	-9.54	40.64	53.98	-13.34
* 20960.00	-97.20	Peak	V	V	43.90	-9.54	44.15	73.98	-29.83
26200.00	-102.39	Peak	V	V	44.76	-9.54	39.82	68.20	-28.38

**Table 6-47. Radiated Measurements**

Worst Case Mode: 802.11a  
 Worst Case Transfer Rate: 6 Mbps  
 Distance of Measurements: 1 & 3 Meters  
 Operating Frequency: 5260MHz  
 Channel: 52

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]
10520.00	-104.54	Peak	H	H	46.70	0.00	49.16	68.20	-19.04
* 15780.00	-120.06	Average	H	H	49.90	0.00	36.85	53.98	-17.13
* 15780.00	-106.96	Peak	H	H	49.90	0.00	49.95	73.98	-24.03
* 21040.00	-98.97	Average	V	V	43.84	-9.54	42.33	53.98	-11.65
* 21040.00	-96.42	Peak	V	V	43.84	-9.54	44.88	73.98	-29.10
26300.00	-103.05	Peak	V	V	44.78	-9.54	39.19	68.20	-29.01

**Table 6-48. Radiated Measurements**

FCC ID: A3LSMT705M		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1404300885.A3L	Test Dates: 4/11 - 5/8/2014	EUT Type: Portable Tablet	Page 112 of 182	

Worst Case Mode: 802.11a  
 Worst Case Transfer Rate: 6 Mbps  
 Distance of Measurements: 1 & 3 Meters  
 Operating Frequency: 5280MHz  
 Channel: 56



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]
10560.00	-106.32	Peak	H	H	46.84	0.00	47.52	68.20	-20.68
* 15840.00	-119.48	Average	H	H	50.07	0.00	37.58	53.98	-16.40
* 15840.00	-109.28	Peak	H	H	50.07	0.00	47.78	73.98	-26.20
* 21120.00	-99.44	Average	V	V	43.74	-9.54	41.76	53.98	-12.22
* 21120.00	-96.13	Peak	V	V	43.74	-9.54	45.07	73.98	-28.91
26400.00	-102.65	Peak	V	V	44.72	-9.54	39.52	68.20	-28.68

**Table 6-49. Radiated Measurements**

Worst Case Mode: 802.11a  
 Worst Case Transfer Rate: 6 Mbps  
 Distance of Measurements: 1 & 3 Meters  
 Operating Frequency: 5320MHz  
 Channel: 64

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]
* 10640.00	-116.16	Average	H	H	47.16	0.00	38.00	53.98	-15.98
* 10640.00	-104.94	Peak	H	H	47.16	0.00	49.22	73.98	-24.76
* 15960.00	-120.24	Average	H	H	49.71	0.00	36.47	53.98	-17.51
* 15960.00	-107.94	Peak	H	H	49.71	0.00	48.77	73.98	-25.21
* 21280.00	-101.21	Average	V	V	43.64	-9.54	39.89	53.98	-14.09
* 21280.00	-98.07	Peak	V	V	43.64	-9.54	43.03	73.98	-30.95
26600.00	-124.78	Peak	V	V	47.28	-9.54	19.96	68.20	-48.24

**Table 6-50. Radiated Measurements**

FCC ID: A3LSMT705M		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1404300885.A3L	Test Dates: 4/11 - 5/8/2014	EUT Type: Portable Tablet	Page 113 of 182	

Worst Case Mode: 802.11a  
 Worst Case Transfer Rate: 6 Mbps  
 Distance of Measurements: 1 & 3 Meters  
 Operating Frequency: 5500MHz  
 Channel: 100

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]
* 11000.00	-116.25	Average	H	H	47.11	0.00	37.86	53.98	-16.12
* 11000.00	-105.06	Peak	H	H	47.11	0.00	49.05	73.98	-24.93
16500.00	-108.63	Peak	H	H	51.60	0.00	49.97	68.20	-18.23
22000.00	-96.54	Peak	V	V	43.92	-9.54	44.83	68.20	-23.37
27500.00	-125.95	Peak	V	V	48.51	-9.54	20.02	68.20	-48.18

**Table 6-51. Radiated Measurements**

Worst Case Mode: 802.11a  
 Worst Case Transfer Rate: 6 Mbps  
 Distance of Measurements: 1 & 3 Meters  
 Operating Frequency: 5580MHz  
 Channel: 116



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]
* 11160.00	-117.04	Average	H	H	47.43	0.00	37.40	53.98	-16.58
* 11160.00	-105.02	Peak	H	H	47.43	0.00	49.42	73.98	-24.56
16740.00	-108.80	Peak	H	H	52.71	0.00	50.91	68.20	-17.29
* 22320.00	-100.47	Average	V	V	44.40	-9.54	41.39	53.98	-12.59
* 22320.00	-97.10	Peak	V	V	44.40	-9.54	44.76	73.98	-29.22
27900.00	-126.24	Peak	V	V	48.13	-9.54	19.35	68.20	-48.85

**Table 6-52. Radiated Measurements**

Worst Case Mode: 802.11a  
 Worst Case Transfer Rate: 6 Mbps  
 Distance of Measurements: 1 & 3 Meters  
 Operating Frequency: 5700MHz  
 Channel: 140

Frequency [MHz]	Analyzer Level [dBm]	Detector	Ant. Pol. [H/V]	EUT Pol. [H/H2/V]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dB $\mu$ V/m]	Limit [dB $\mu$ V/m]	Margin [dB]
* 11400.00	-117.68	Average	H	H	47.68	0.00	37.01	53.98	-16.97
* 11400.00	-105.89	Peak	H	H	47.68	0.00	48.80	73.98	-25.18
17100.00	-108.37	Peak	H	H	54.03	0.00	52.66	68.20	-15.54
* 22800.00	-102.35	Average	V	V	44.39	-9.54	39.50	53.98	-14.48
* 22800.00	-98.99	Peak	V	V	44.39	-9.54	42.86	73.98	-31.12
28500.00	-127.08	Peak	V	V	48.03	-9.54	18.41	68.20	-49.79

**Table 6-53. Radiated Measurements**

FCC ID: A3LSMT705M		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1404300885.A3L	Test Dates: 4/11 - 5/8/2014	EUT Type: Portable Tablet	Page 115 of 182	

## 6.8 Antenna-1 Radiated Band Edge Measurements (20MHz BW)

§15.407(b.1)(b.2) §15.205 §15.209

Worst Case Mode: 802.11a

Worst Case Transfer Rate: 6 Mbps

Distance of Measurements: 3 Meters

Operating Frequency: 5180MHz

Channel: 36

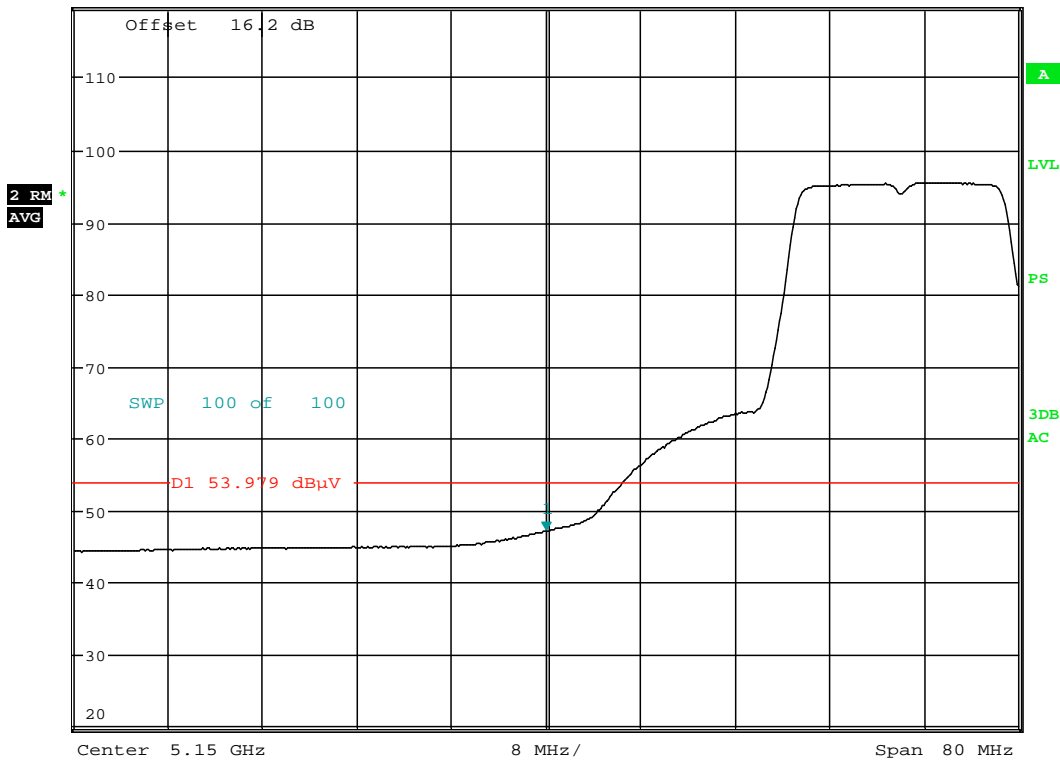


**MARKER 1**  
5.15 GHz

\* RBW 1 MHz  
\* VBW 3 MHz  
SWT 20 ms

Marker 1 [T2 ]  
47.06 dBμV  
5.15000000 GHz

Ref 119.7 dBμV \* Att 10 dB



Date: 18.APR.2014 17:08:17

**Plot 6-133. Radiated Restricted Lower Band Edge Plot (Average - UNII Band 1)**

FCC ID: A3LSMT705M		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1404300885.A3L	Test Dates: 4/11 - 5/8/2014	EUT Type: Portable Tablet	Page 116 of 182	

# Radiated Band Edge Measurements (20MHz BW)

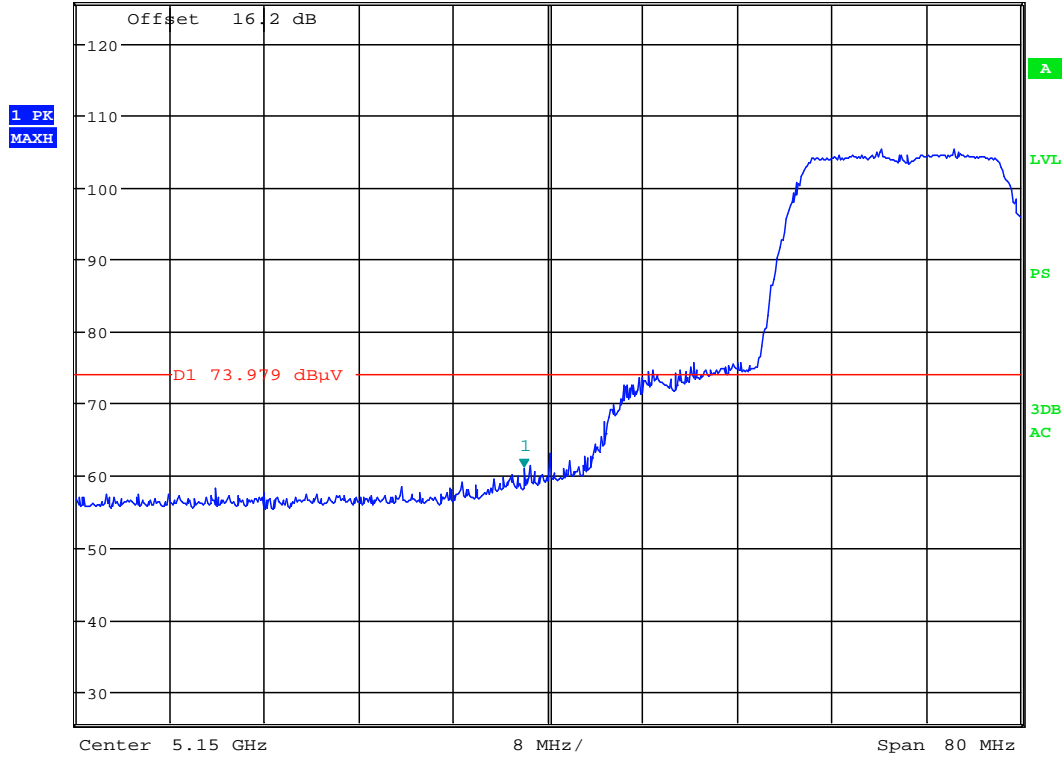
§15.407(b.1)(b.2) §15.205 §15.209



**MARKER 1**  
5.147948718 GHz  
Ref 125.6 dBµV \*Att 10 dB

\*RBW 1 MHz  
\*VBW 3 MHz  
SWT 20 ms

Marker 1 [T1 ]  
60.91 dBµV  
5.147948718 GHz



Date: 18.APR.2014 17:08:40

**Plot 6-134. Radiated Restricted Lower Band Edge Plot (Peak – UNII Band 1)**

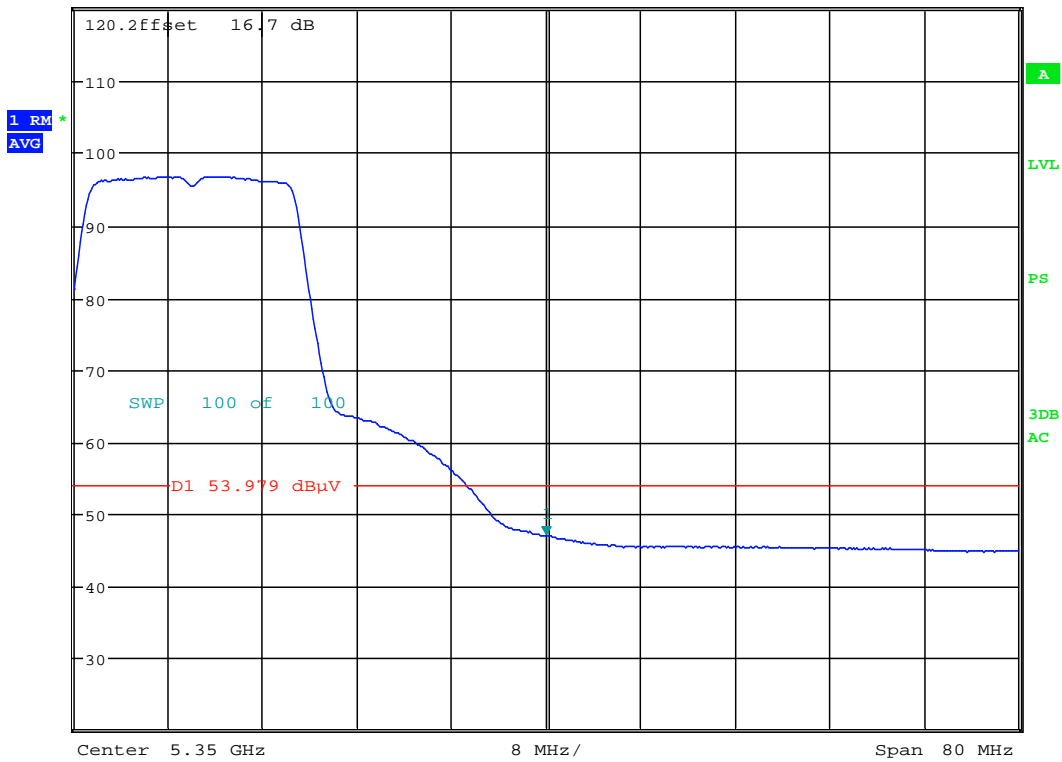
<b>FCC ID:</b> A3LSMT705M		<b>FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)</b>		<b>Reviewed by:</b> Quality Manager
<b>Test Report S/N:</b> 0Y1404300885.A3L	<b>Test Dates:</b> 4/11 - 5/8/2014	<b>EUT Type:</b> Portable Tablet	Page 117 of 182	

**Radiated Band Edge Measurements (20MHz BW)**  
\$15.407(b.1)(b.2) \$15.205 \$15.209

Worst Case Mode: 802.11a  
 Worst Case Transfer Rate: 6 Mbps  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 5320MHz  
 Channel: 64



**MARKER 1**  
 5.35 GHz  
 Ref 120.2 dBµV \* Att 10 dB SWT 20 ms  
 \* RBW 1 MHz \* VBW 3 MHz  
 Marker 1 [T1] 46.96 dBµV  
 5.35000000 GHz



Date: 18.APR.2014 17:12:08

**Plot 6-135. Radiated Restricted Upper Band Edge Plot (Average – UNII Band 2A)**

FCC ID: A3LSMT705M		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1404300885.A3L	Test Dates: 4/11 - 5/8/2014	EUT Type: Portable Tablet	Page 118 of 182	

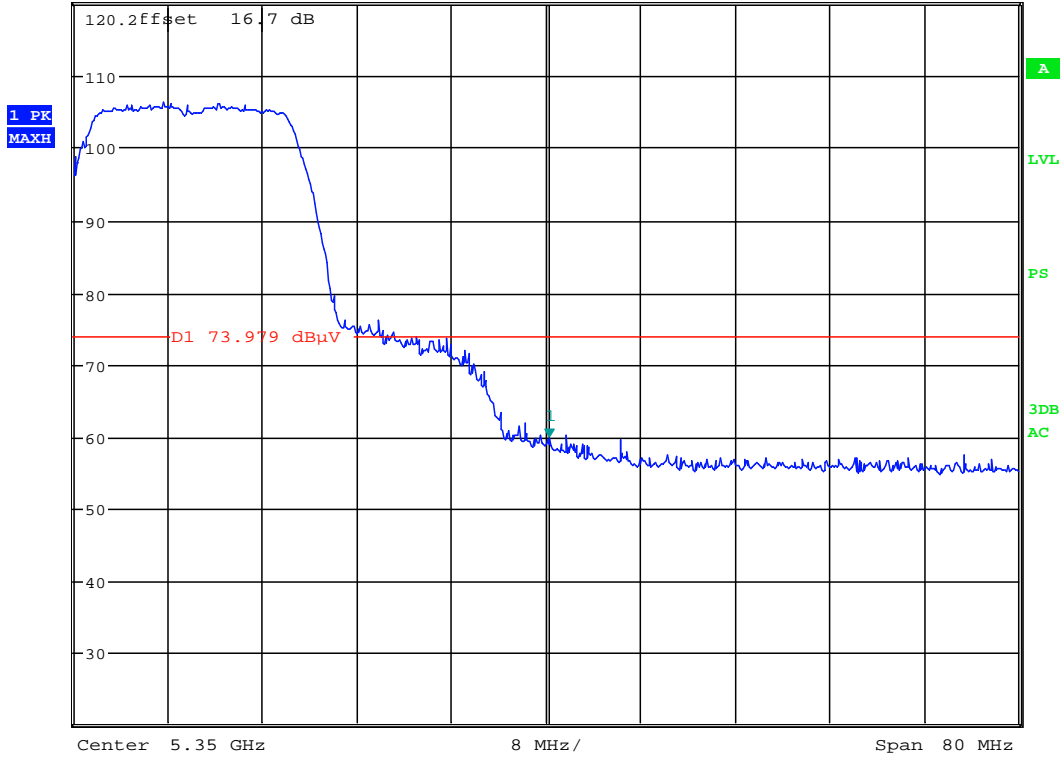
**Radiated Band Edge Measurements (20MHz BW)**  
**§15.407(b.1)(b.2) §15.205 §15.209**



**MARKER 1**  
5.35025641 GHz  
Ref 120.2 dBµV \*Att 10 dB

\*RBW 1 MHz  
\*VBW 3 MHz  
SWT 20 ms

Marker 1 [T1 ]  
59.78 dBµV  
5.350256410 GHz



Date: 18.APR.2014 17:12:29

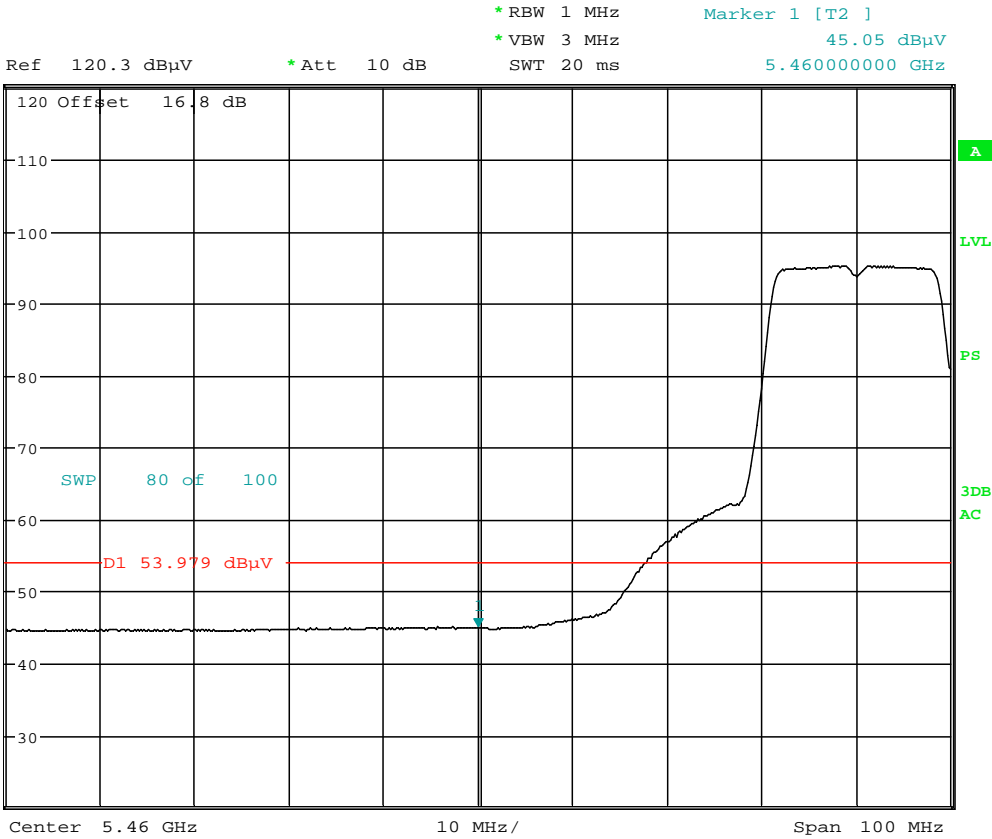
**Plot 6-136. Radiated Restricted Upper Band Edge Plot (Peak – UNII Band 2A)**

<b>FCC ID:</b> A3LSMT705M		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		<b>Reviewed by:</b> Quality Manager
<b>Test Report S/N:</b> 0Y1404300885.A3L	<b>Test Dates:</b> 4/11 - 5/8/2014	<b>EUT Type:</b> Portable Tablet	Page 119 of 182	

# Radiated Band Edge Measurements (20MHz BW)

\$15.407(b.1)(b.2) \$15.205 \$15.209

Worst Case Mode: 802.11a  
 Worst Case Transfer Rate: 6 Mbps  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 5500MHz  
 Channel: 100



Date: 18.APR.2014 17:14:20

**Plot 6-137. Radiated Restricted Lower Band Edge Plot (Average – UNII Band 2C)**

FCC ID: A3LSMT705M		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1404300885.A3L	Test Dates: 4/11 - 5/8/2014	EUT Type: Portable Tablet	Page 120 of 182	

# Radiated Band Edge Measurements (20MHz BW)

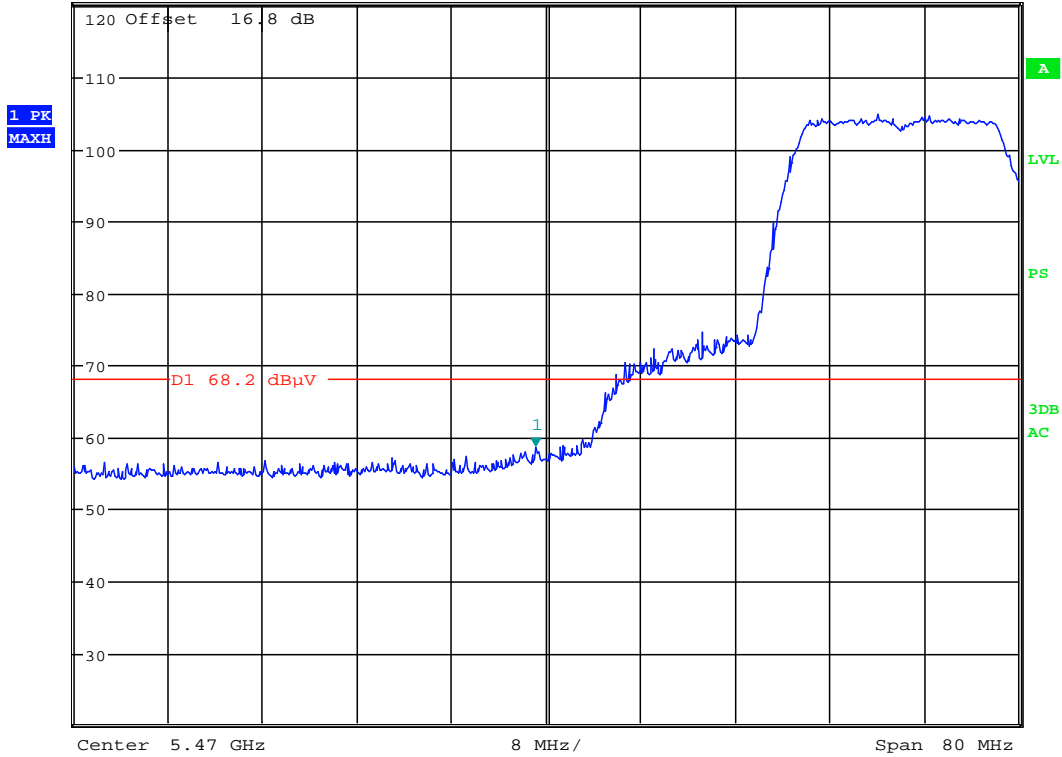
§15.407(b.1)(b.2) §15.205 §15.209



**MARKER 1**  
 5.469102564 GHz  
 Ref 120.3 dBµV \*Att 10 dB

\*RBW 1 MHz  
 \*VBW 3 MHz  
 SWT 20 ms

Marker 1 [T1 ]  
 58.69 dBµV  
 5.469102564 GHz



Date: 18.APR.2014 17:14:35

**Plot 6-138. Radiated Restricted Lower Band Edge Plot (Peak – UNII Band 2C)**

<b>FCC ID:</b> A3LSMT705M		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		<b>Reviewed by:</b> Quality Manager
<b>Test Report S/N:</b> 0Y1404300885.A3L	<b>Test Dates:</b> 4/11 - 5/8/2014	<b>EUT Type:</b> Portable Tablet	Page 121 of 182	

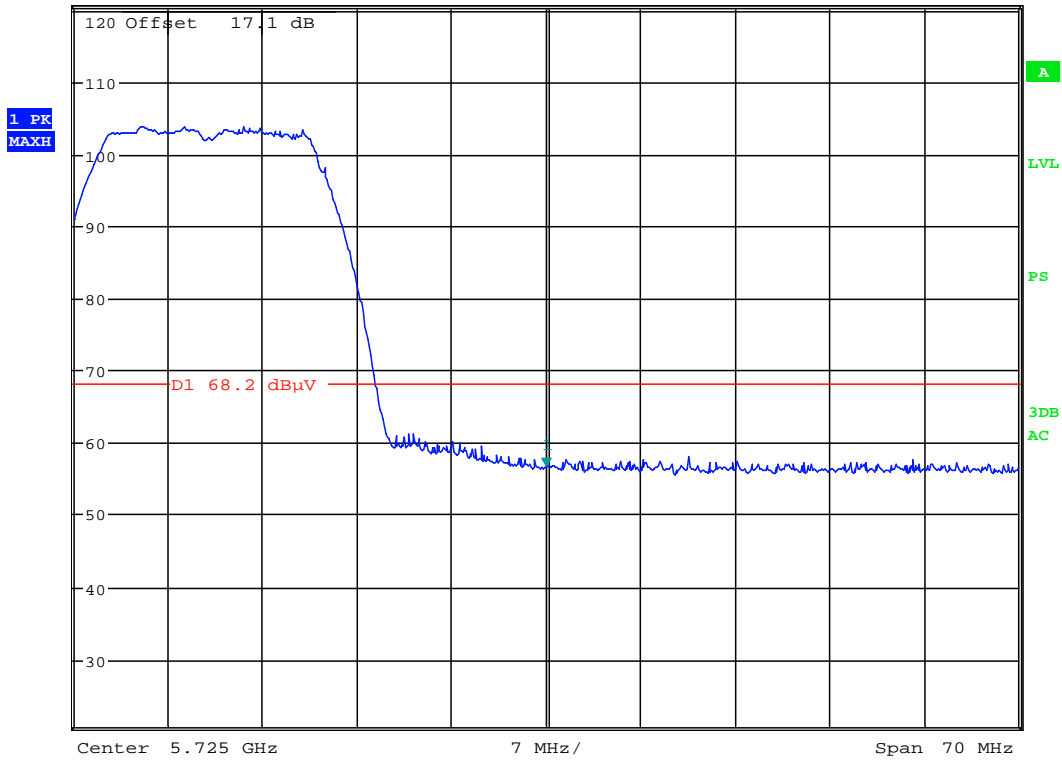
# Radiated Band Edge Measurements (20MHz BW)

§15.407(b.1)(b.2) §15.205 §15.209

Worst Case Mode: 802.11a  
 Worst Case Transfer Rate: 6 Mbps  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 5700MHz  
 Channel: 140



**MARKER 1**  
 5.725 GHz  
 Ref 120.6 dBµV \*Att 10 dB SWT 20 ms  
 \*RBW 1 MHz \*VBW 3 MHz  
 Marker 1 [T1] 56.61 dBµV  
 5.725000000 GHz



Date: 23.APR.2014 13:12:56

**Plot 6-139. Radiated Upper Band Edge Plot (Peak – UNII Band 2C)**

FCC ID: A3LSMT705M		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1404300885.A3L	Test Dates: 4/11 - 5/8/2014	EUT Type: Portable Tablet		Page 122 of 182

## 6.9 Antenna-1 Radiated Band Edge Measurements (40MHz BW)

§15.407(b.1)(b.2) §15.205 §15.209

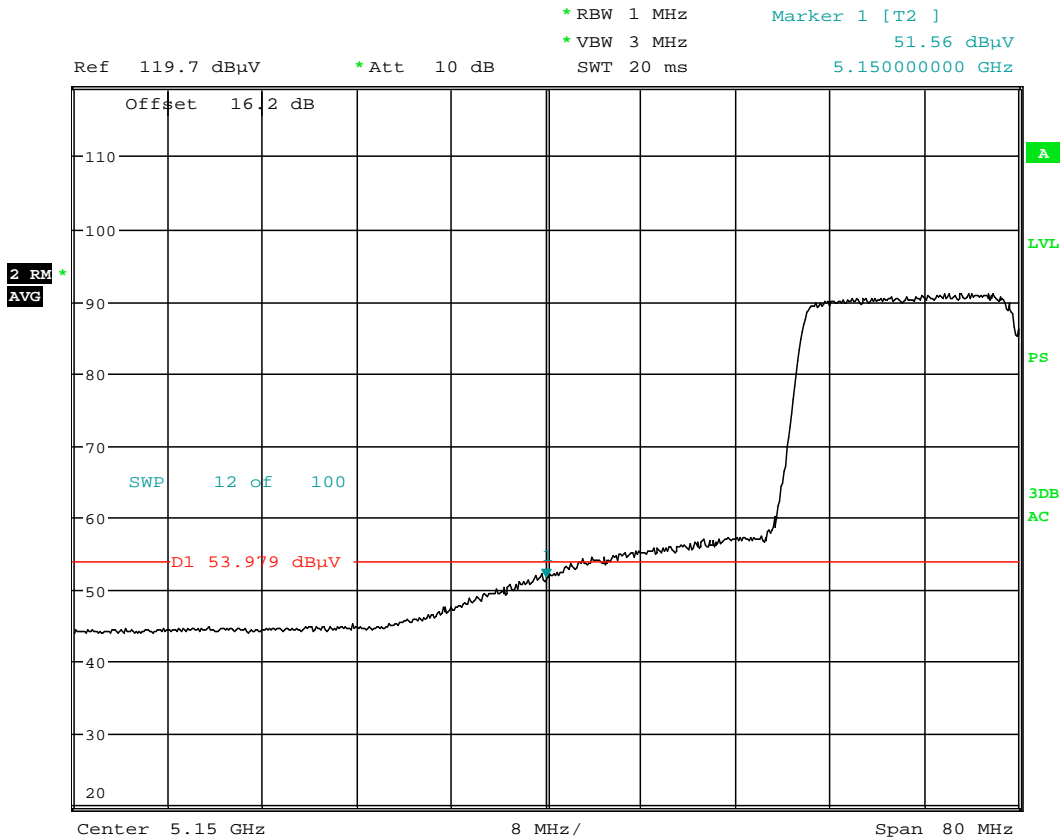
Worst Case Mode: 802.11n (40MHz)

Worst Case Transfer Rate: MCS0

Distance of Measurements: 3 Meters

Operating Frequency: 5190MHz

Channel: 38



Date: 23.APR.2014 11:11:45

**Plot 6-140. Radiated Restricted Lower Band Edge Plot (Average – UNII Band 1)**

FCC ID: A3LSMT705M		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1404300885.A3L	Test Dates: 4/11 - 5/8/2014	EUT Type: Portable Tablet	Page 123 of 182	

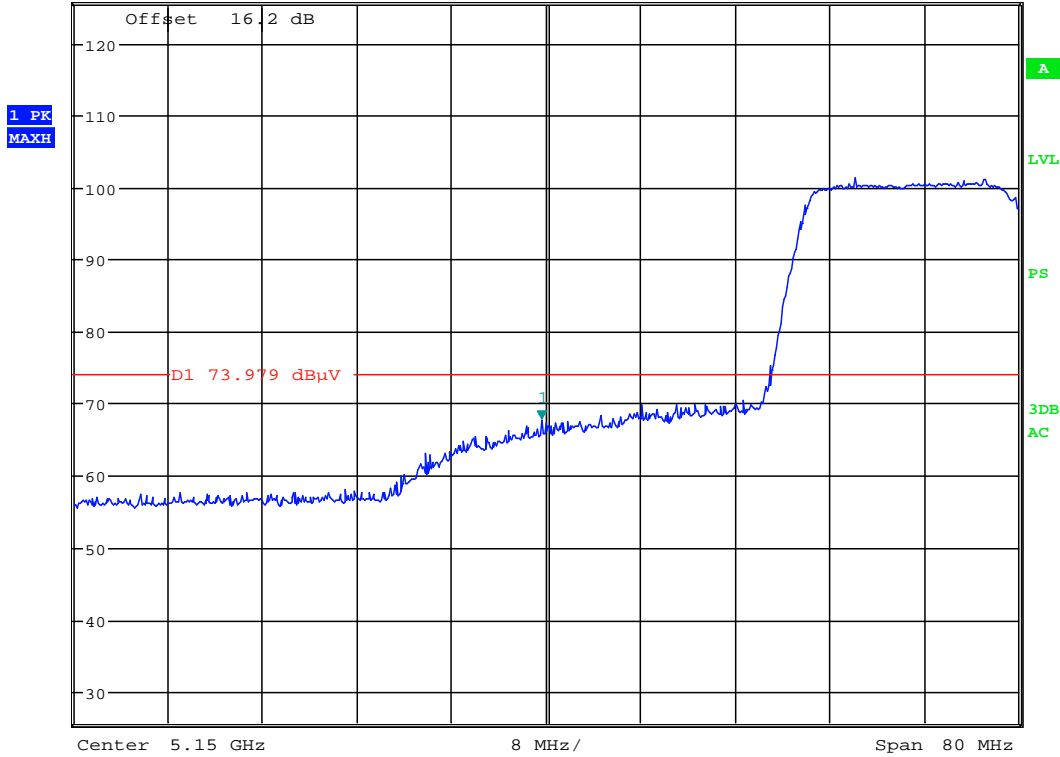
**Radiated Band Edge Measurements (40MHz BW)**  
**§15.407(b.1)(b.2) §15.205 §15.209**



**MARKER 1**  
5.149615385 GHz  
Ref 125.6 dBµV \*Att 10 dB

\*RBW 1 MHz  
\*VBW 3 MHz  
SWT 20 ms

Marker 1 [T1 ]  
67.77 dBµV  
5.149615385 GHz



Date: 21.APR.2014 13:22:27

**Plot 6-141. Radiated Restricted Lower Band Edge Plot (Peak - UNII Band 1)**

<b>FCC ID:</b> A3LSMT705M		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		<b>Reviewed by:</b> Quality Manager
<b>Test Report S/N:</b> 0Y1404300885.A3L	<b>Test Dates:</b> 4/11 - 5/8/2014	<b>EUT Type:</b> Portable Tablet	Page 124 of 182	

# Radiated Band Edge Measurements (40MHz BW)

\$15.407(b.1)(b.2) \$15.205 \$15.209

Worst Case Mode: 802.11n (40MHz)  
 Worst Case Transfer Rate: MCS0  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 5310MHz  
 Channel: 62



**MARKER 1**  
5.350064103 GHz

\* RBW 1 MHz

Marker 1 [T2 ]

\* VBW 3 MHz

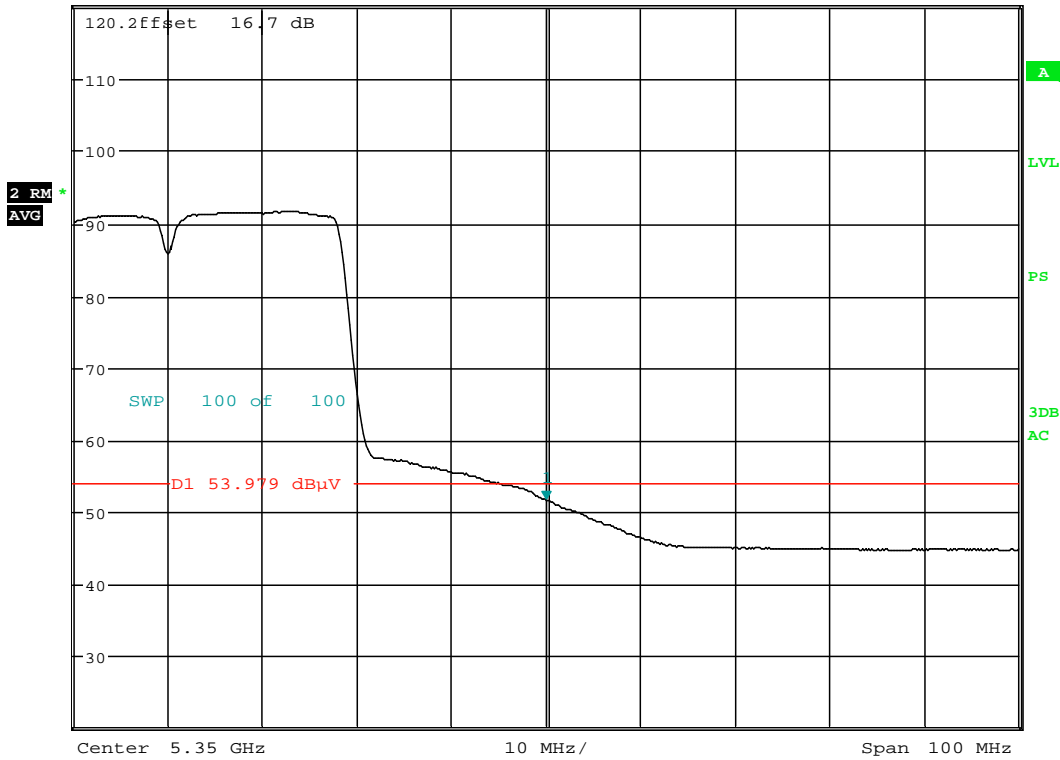
51.70 dBμV

Ref 120.2 dBμV

\* Att 10 dB

SWT 20 ms

5.350064103 GHz



Date: 23.APR.2014 12:05:29

**Plot 6-142. Radiated Restricted Upper Band Edge Plot (Average – UNII Band 2A)**

FCC ID: A3LSMT705M		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1404300885.A3L	Test Dates: 4/11 - 5/8/2014	EUT Type: Portable Tablet		Page 125 of 182

# Radiated Band Edge Measurements (40MHz BW)

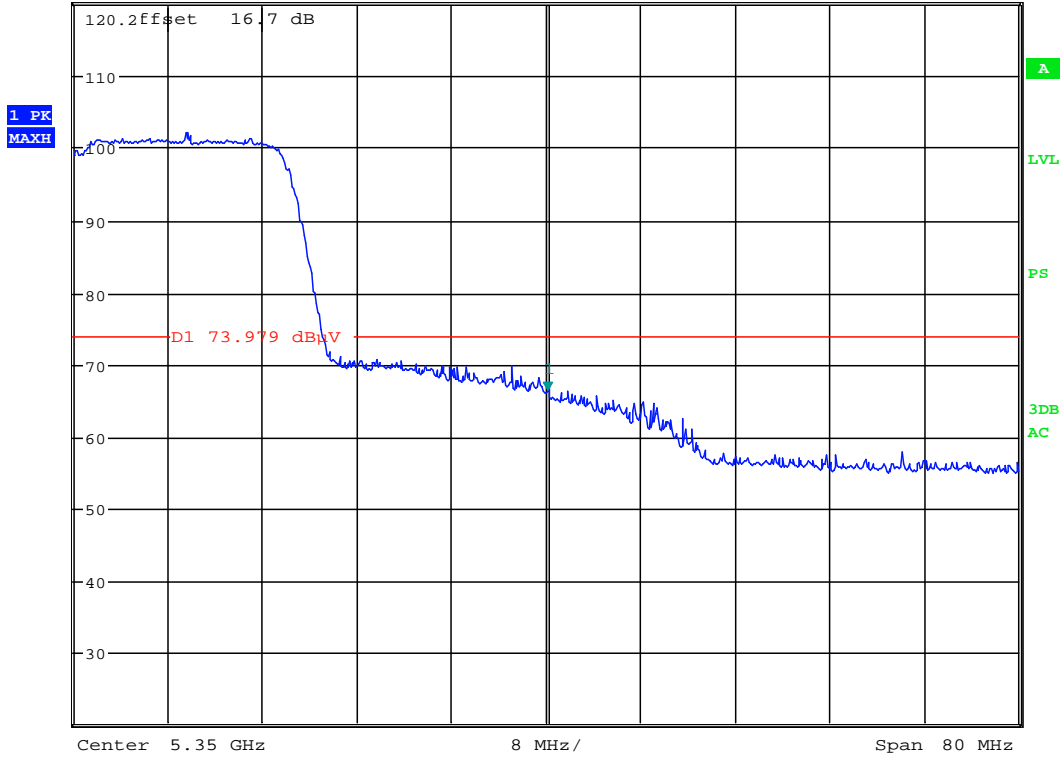
§15.407(b.1)(b.2) §15.205 §15.209



**MARKER 1**  
 5.350128205 GHz  
 Ref 120.2 dBµV \*Att 10 dB

\*RBW 1 MHz  
 \*VBW 3 MHz  
 SWT 20 ms

Marker 1 [T1 ]  
 66.31 dBµV  
 5.350128205 GHz



Date: 21.APR.2014 13:28:42

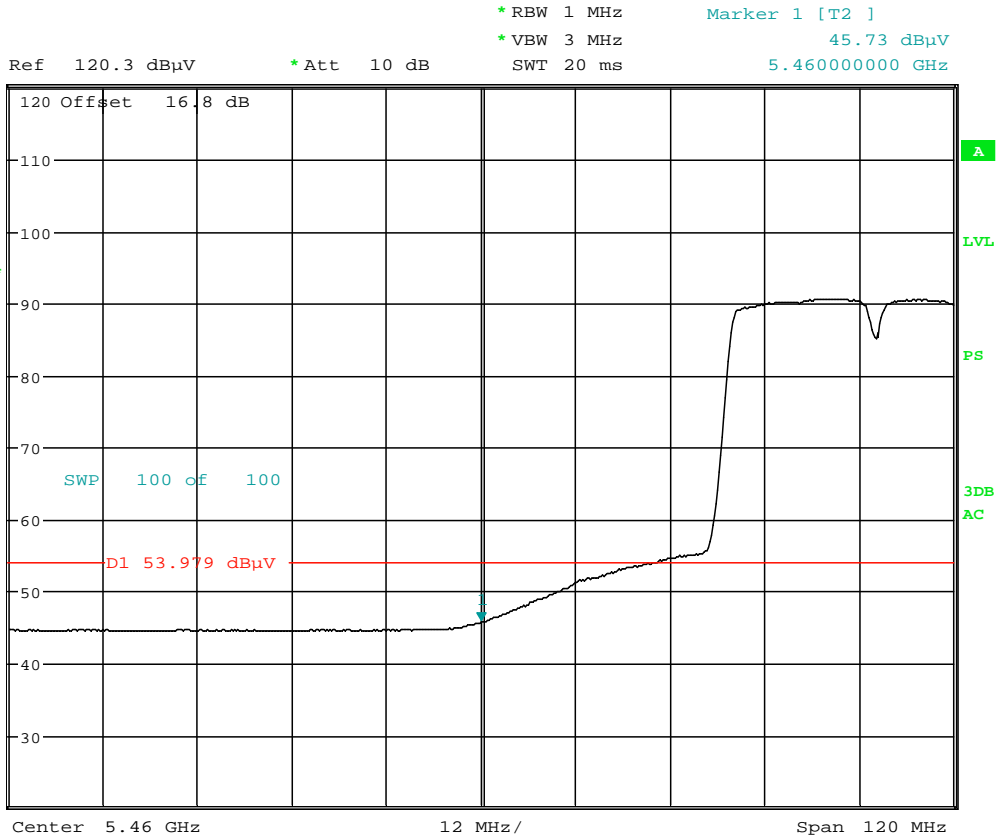
**Plot 6-143. Radiated Restricted Upper Band Edge Plot (Peak – UNII Band 2A)**

FCC ID: A3LSMT705M		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1404300885.A3L	Test Dates: 4/11 - 5/8/2014	EUT Type: Portable Tablet	Page 126 of 182	

# Radiated Band Edge Measurements (40MHz BW)

\$15.407(b.1)(b.2) \$15.205 \$15.209

Worst Case Mode: 802.11n (40MHz)  
 Worst Case Transfer Rate: MCS0  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 5510MHz  
 Channel: 102



Date: 23.APR.2014 12:19:50

**Plot 6-144. Radiated Restricted Lower Band Edge Plot (Average – UNII Band 2C)**

FCC ID: A3LSMT705M		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1404300885.A3L	Test Dates: 4/11 - 5/8/2014	EUT Type: Portable Tablet	Page 127 of 182	

# Radiated Band Edge Measurements (40MHz BW)

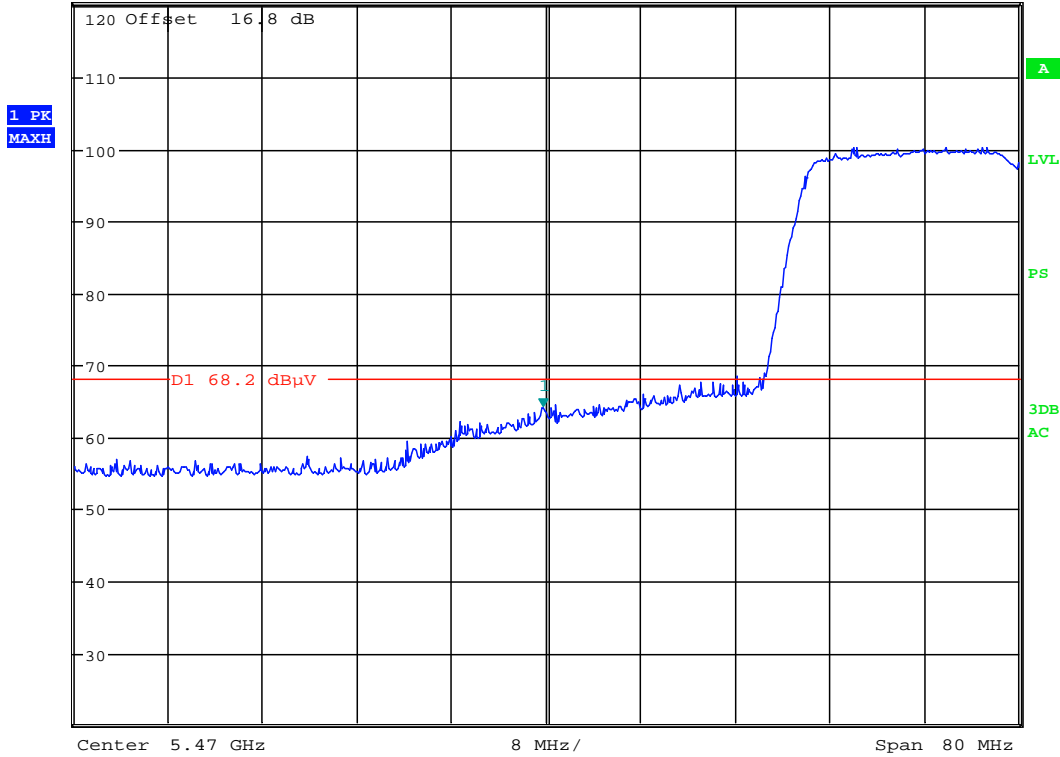
§15.407(b.1)(b.2) §15.205 §15.209



**MARKER 1**  
 5.46974359 GHz  
 Ref 120.3 dBµV \*Att 10 dB

\*RBW 1 MHz  
 \*VBW 3 MHz  
 SWT 20 ms

Marker 1 [T1 ]  
 64.20 dBµV  
 5.469743590 GHz



Date: 23.APR.2014 12:20:14

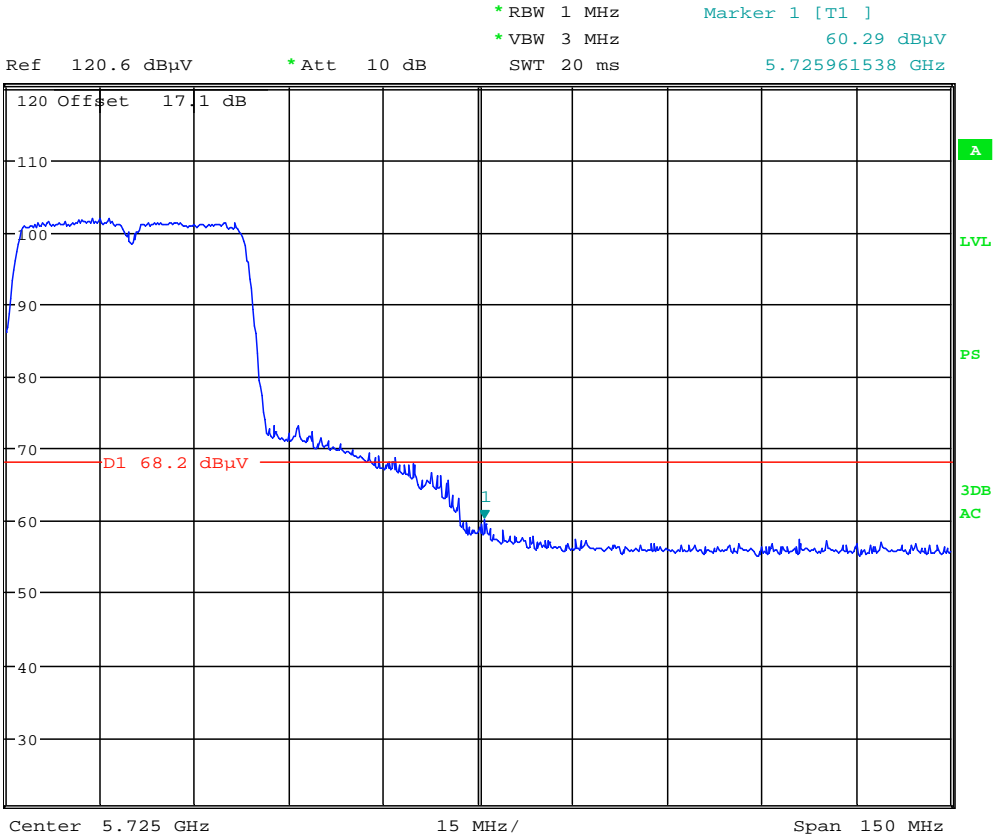
**Plot 6-145. Radiated Restricted Lower Band Edge Plot (Peak – UNII Band 2C)**

<b>FCC ID:</b> A3LSMT705M		<b>FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)</b>		<b>Reviewed by:</b> Quality Manager
<b>Test Report S/N:</b> 0Y1404300885.A3L	<b>Test Dates:</b> 4/11 - 5/8/2014	<b>EUT Type:</b> Portable Tablet	Page 128 of 182	

# Radiated Band Edge Measurements (40MHz BW)

§15.407(b.1)(b.2) §15.205 §15.209

Worst Case Mode: 802.11n (40MHz)  
 Worst Case Transfer Rate: MCS0  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 5670MHz  
 Channel: 134



Date: 21.APR.2014 13:44:58

**Plot 6-146. Radiated Upper Band Edge Plot (Peak – UNII Band 2C)**

FCC ID: A3LSMT705M		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1404300885.A3L	Test Dates: 4/11 - 5/8/2014	EUT Type: Portable Tablet		Page 129 of 182

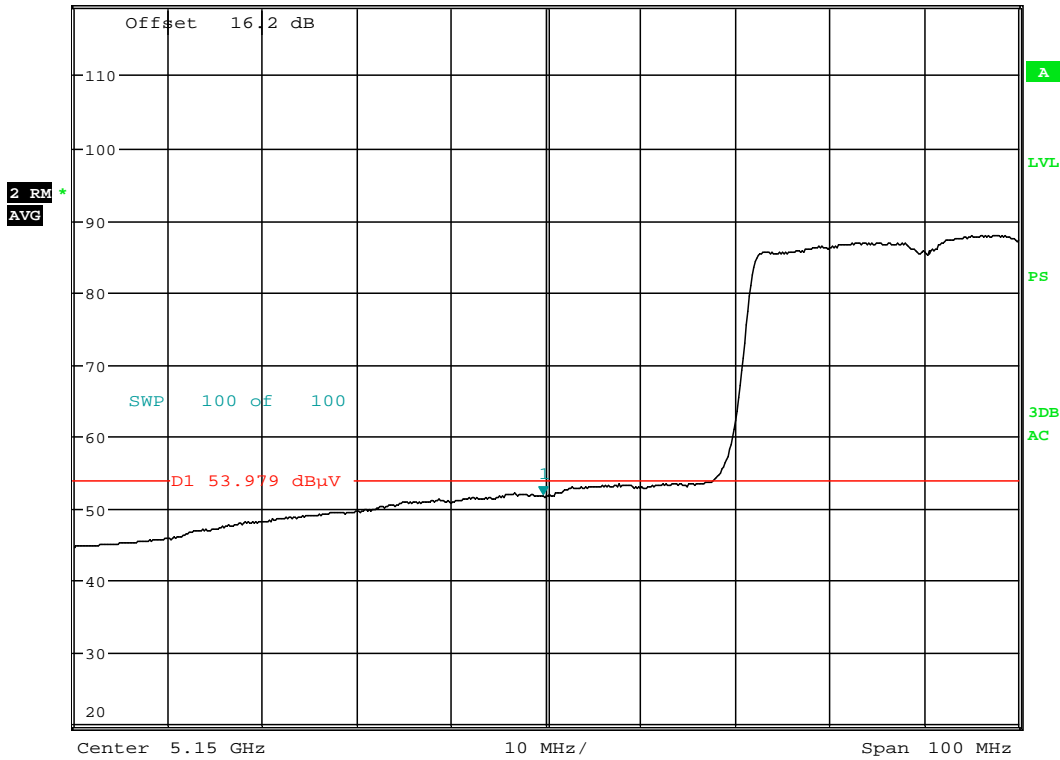
## 6.10 Antenna-1 Radiated Band Edge Measurements (80MHz BW)

§15.407(b.1)(b.2) §15.205 §15.209

Worst Case Mode: 802.11ac (80MHz)  
 Worst Case Transfer Rate: MCS0  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 5210MHz  
 Channel: 42



**MARKER 1**  
 5.149679487 GHz  
 Ref 119.7 dBµV \* Att 10 dB SWT 20 ms  
 \* RBW 1 MHz \* VBW 3 MHz  
 Marker 1 [T2] 51.74 dBµV  
 5.149679487 GHz



Date: 21.APR.2014 14:45:19

**Plot 6-147. Radiated Restricted Lower Band Edge Plot (Average – UNII Band 1)**

FCC ID: A3LSMT705M		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1404300885.A3L	Test Dates: 4/11 - 5/8/2014	EUT Type: Portable Tablet		Page 130 of 182

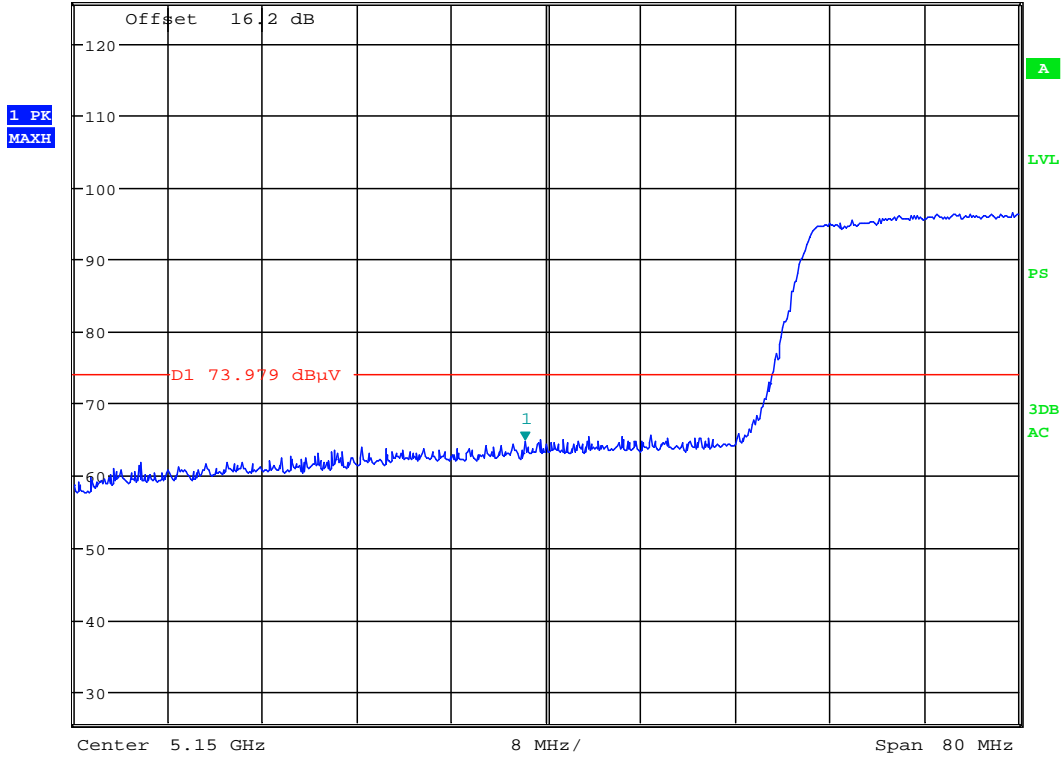
**Radiated Band Edge Measurements (80MHz BW)**  
**§15.407(b.1)(b.2) §15.205 §15.209**



**MARKER 1**  
5.148205128 GHz  
Ref 125.6 dBµV \*Att 10 dB

\*RBW 1 MHz  
\*VBW 3 MHz  
SWT 20 ms

Marker 1 [T1 ]  
64.83 dBµV  
5.148205128 GHz



Date: 21.APR.2014 14:45:54

**Plot 6-148. Radiated Restricted Lower Band Edge Plot (Peak – UNII Band 1)**

<b>FCC ID:</b> A3LSMT705M		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		<b>Reviewed by:</b> Quality Manager
<b>Test Report S/N:</b> 0Y1404300885.A3L	<b>Test Dates:</b> 4/11 - 5/8/2014	<b>EUT Type:</b> Portable Tablet	Page 131 of 182	

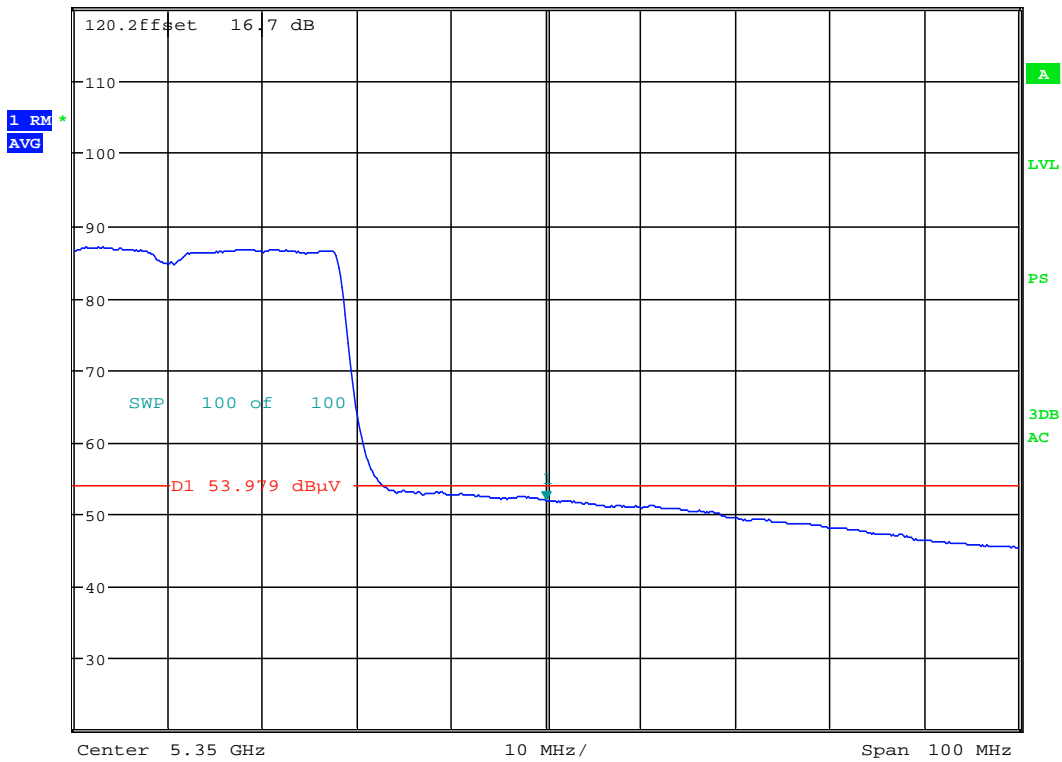
# Radiated Band Edge Measurements (80MHz BW)

\$15.407(b.1)(b.2) \$15.205 \$15.209

Worst Case Mode: 802.11ac (80MHz)  
 Worst Case Transfer Rate: MCS0  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 5290MHz  
 Channel: 58



**MARKER 1**  
 5.350064103 GHz  
 Ref 120.2 dBµV \* Att 10 dB SWT 20 ms  
 \* RBW 1 MHz \* VBW 3 MHz  
 Marker 1 [T1 ] 51.88 dBµV  
 5.350064103 GHz



Date: 23.APR.2014 12:40:43

**Plot 6-149. Radiated Restricted Upper Band Edge Plot (Average – UNII Band 2A)**

FCC ID: A3LSMT705M		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1404300885.A3L	Test Dates: 4/11 - 5/8/2014	EUT Type: Portable Tablet	Page 132 of 182	

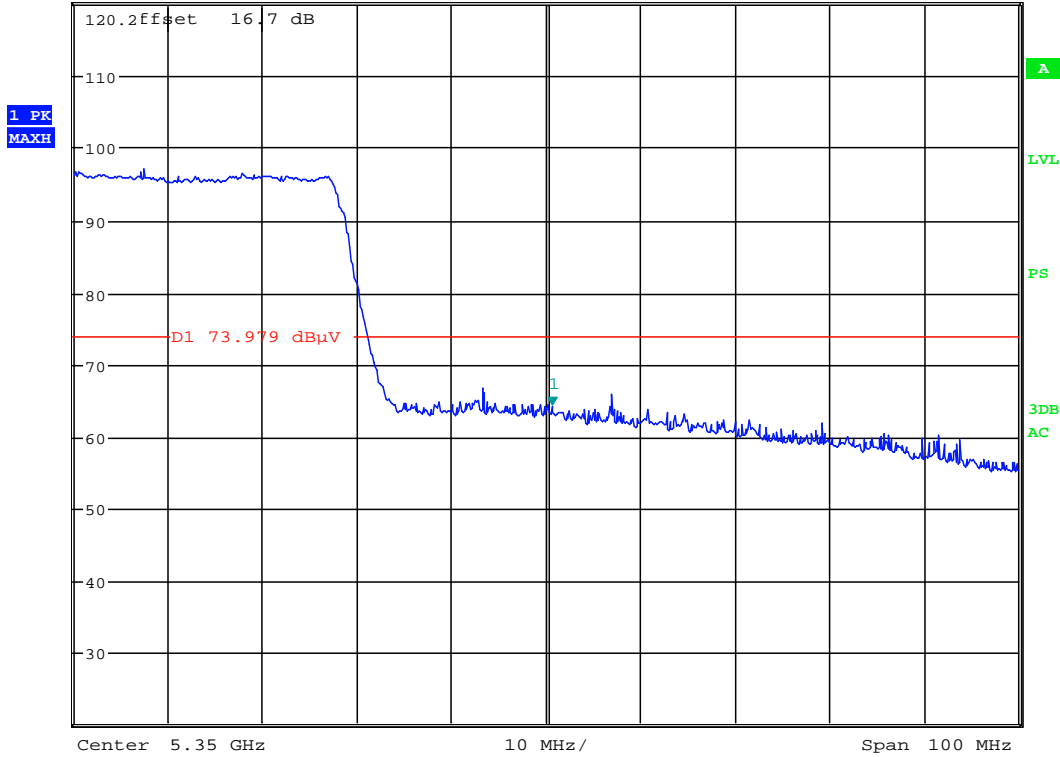
**Radiated Band Edge Measurements (80MHz BW)**  
**§15.407(b.1)(b.2) §15.205 §15.209**



**MARKER 1**  
5.350641026 GHz  
Ref 120.2 dBµV \*Att 10 dB

\*RBW 1 MHz  
\*VBW 3 MHz  
SWT 20 ms

Marker 1 [T1 ]  
64.28 dBµV  
5.350641026 GHz



Date: 23.APR.2014 12:41:11

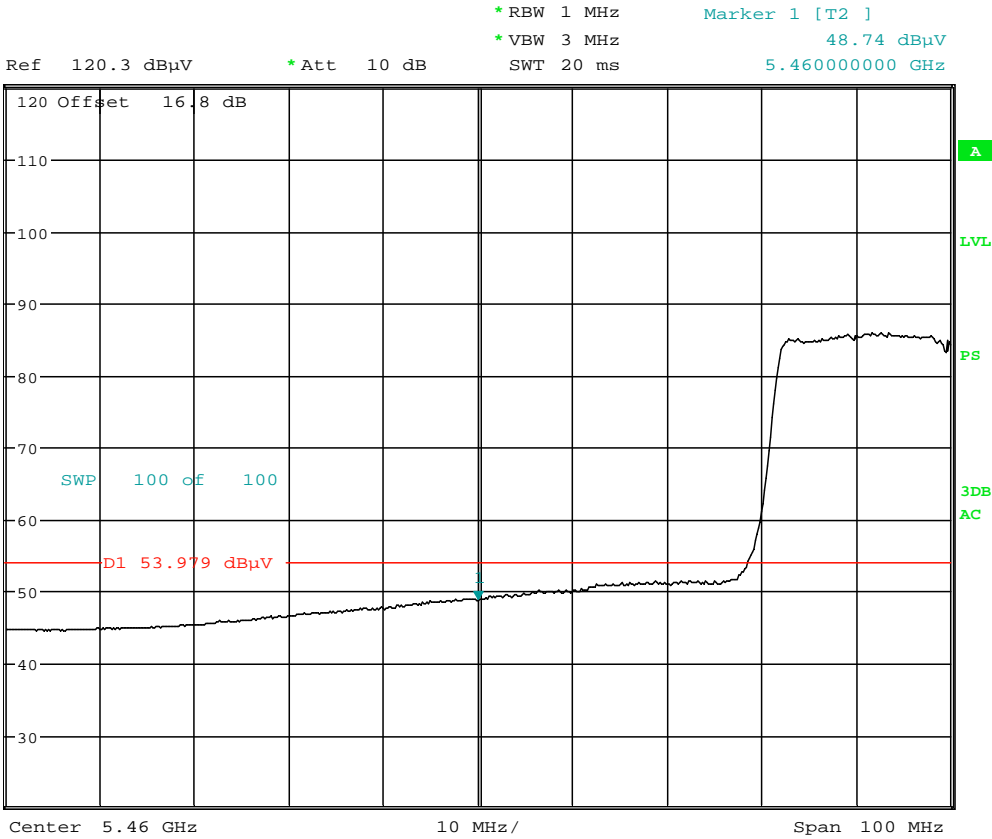
**Plot 6-150. Radiated Restricted Upper Band Edge Plot (Peak – UNII Band 2A)**

<b>FCC ID:</b> A3LSMT705M		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		<b>Reviewed by:</b> Quality Manager
<b>Test Report S/N:</b> 0Y1404300885.A3L	<b>Test Dates:</b> 4/11 - 5/8/2014	<b>EUT Type:</b> Portable Tablet	Page 133 of 182	

# Radiated Band Edge Measurements (80MHz BW)

\$15.407(b.1)(b.2) \$15.205 \$15.209

Worst Case Mode: 802.11ac (80MHz)  
 Worst Case Transfer Rate: MCS0  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 5530MHz  
 Channel: 106



Date: 23.APR.2014 12:56:04

**Plot 6-151. Radiated Restricted Lower Band Edge Plot (Average – UNII Band 2C)**

FCC ID: A3LSMT705M		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1404300885.A3L	Test Dates: 4/11 - 5/8/2014	EUT Type: Portable Tablet	Page 134 of 182	

# Radiated Band Edge Measurements (80MHz BW)

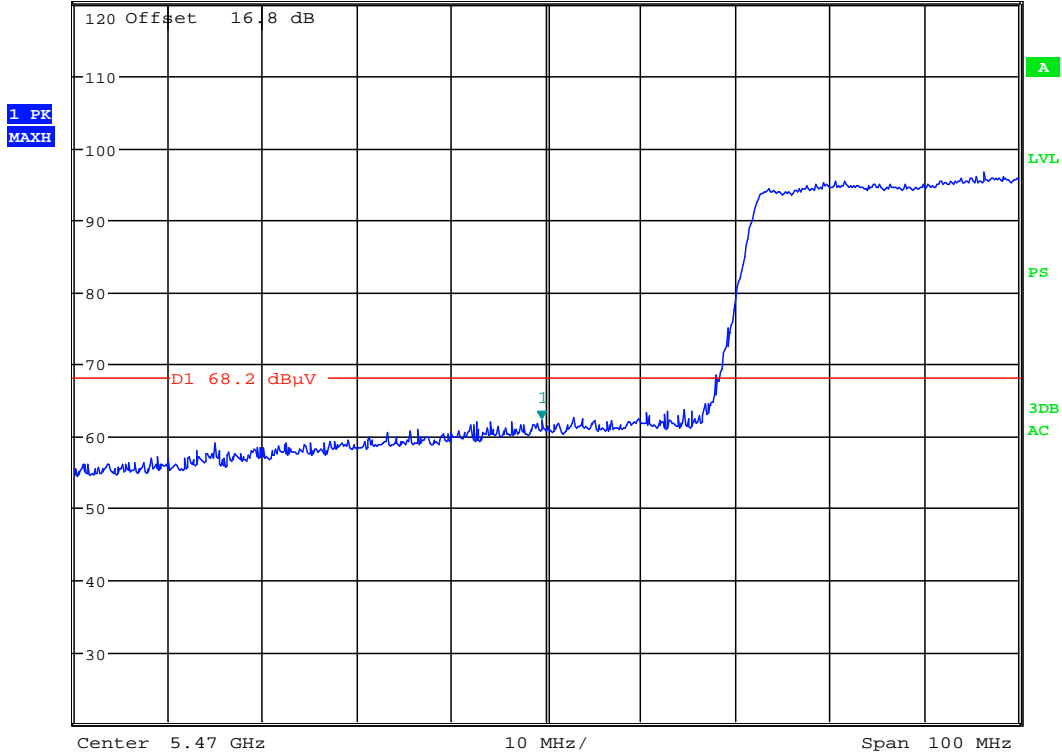
§15.407(b.1)(b.2) §15.205 §15.209



**MARKER 1**  
 5.469519231 GHz  
 Ref 120.3 dBµV \*Att 10 dB

\*RBW 1 MHz  
 \*VBW 3 MHz  
 SWT 20 ms

Marker 1 [T1 ]  
 62.16 dBµV  
 5.469519231 GHz



Date: 23.APR.2014 12:56:26

**Plot 6-152. Radiated Restricted Lower Band Edge Plot (Peak – UNII Band 2C)**

<b>FCC ID:</b> A3LSMT705M		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		<b>Reviewed by:</b> Quality Manager
<b>Test Report S/N:</b> 0Y1404300885.A3L	<b>Test Dates:</b> 4/11 - 5/8/2014	<b>EUT Type:</b> Portable Tablet	Page 135 of 182	

## 6.11 Antenna-2 Radiated Band Edge Measurements (20MHz BW)

§15.407(b.1)(b.2) §15.205 §15.209

Worst Case Mode: 802.11a

Worst Case Transfer Rate: 6 Mbps

Distance of Measurements: 3 Meters

Operating Frequency: 5180MHz

Channel: 36

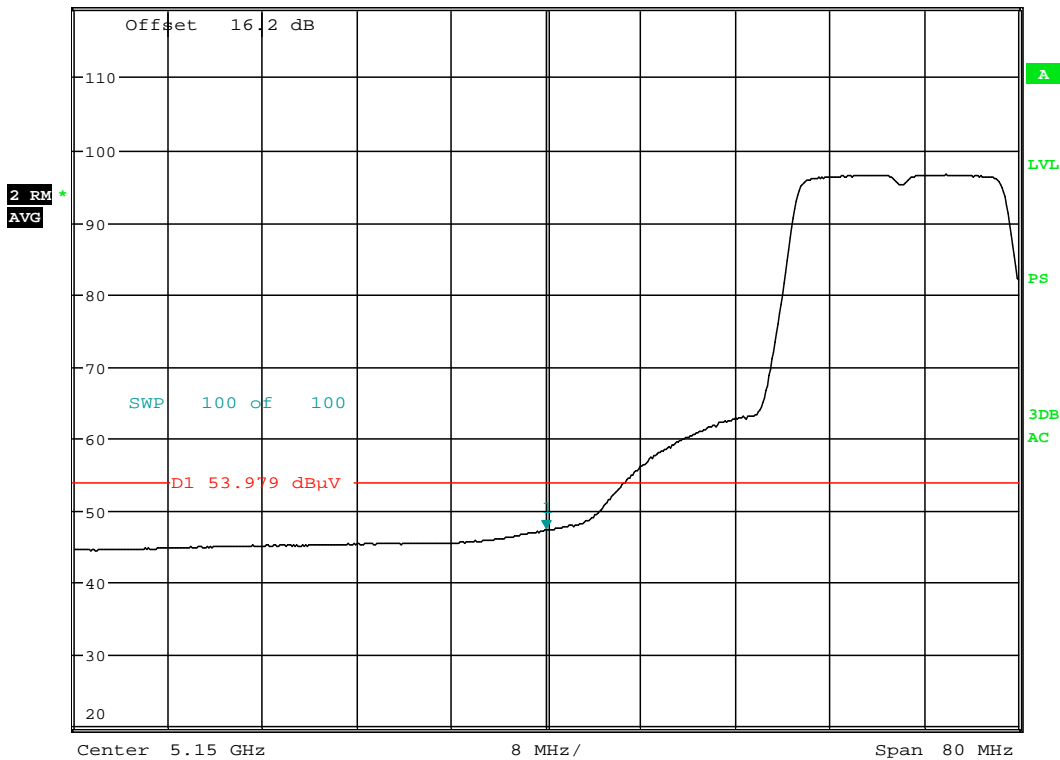


**MARKER 1**  
5.15 GHz

\* RBW 1 MHz  
\* VBW 3 MHz  
SWT 20 ms

Marker 1 [T2 ]  
47.25 dBµV  
5.15000000 GHz

Ref 119.7 dBµV \* Att 10 dB



Date: 23.APR.2014 13:07:30

**Plot 6-153. Radiated Restricted Lower Band Edge Plot (Average – UNII Band 1)**

FCC ID: A3LSMT705M		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1404300885.A3L	Test Dates: 4/11 - 5/8/2014	EUT Type: Portable Tablet		Page 136 of 182

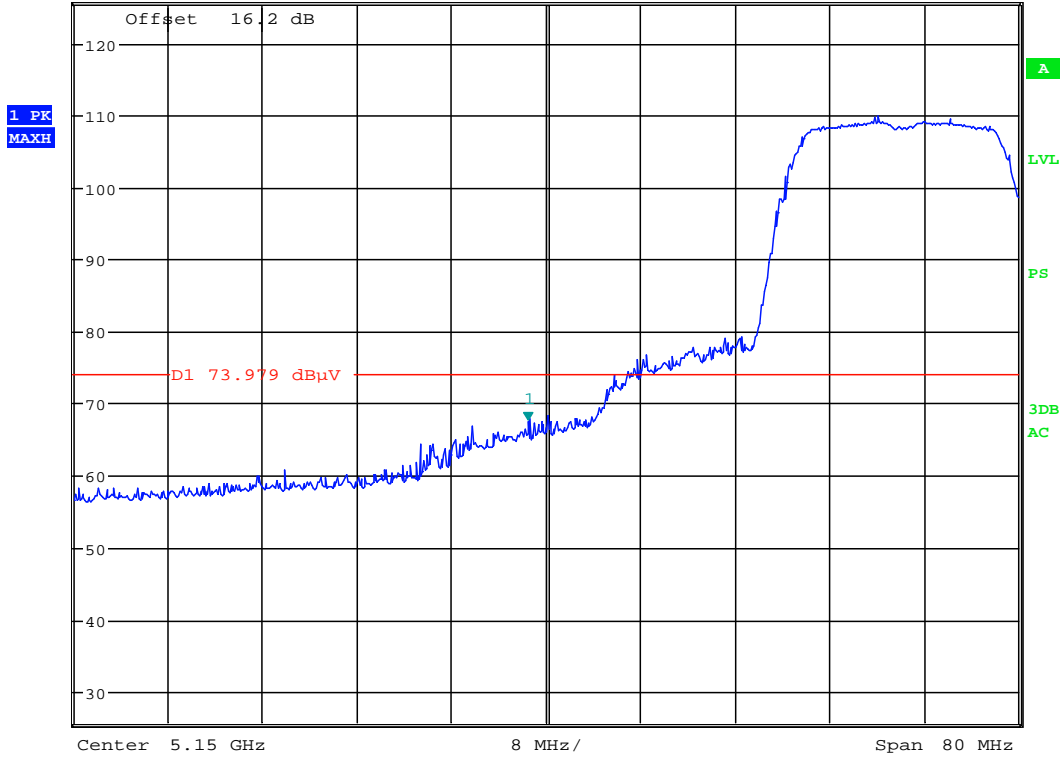
**Radiated Band Edge Measurements (20MHz BW)**  
**§15.407(b.1)(b.2) §15.205 §15.209**



**MARKER 1**  
5.148461538 GHz  
Ref 125.6 dBµV \*Att 10 dB

\*RBW 1 MHz  
\*VBW 3 MHz  
SWT 20 ms

Marker 1 [T1 ]  
67.48 dBµV  
5.148461538 GHz



Date: 18.APR.2014 17:21:06

**Plot 6-154. Radiated Restricted Lower Band Edge Plot (Peak – UNII Band 1)**

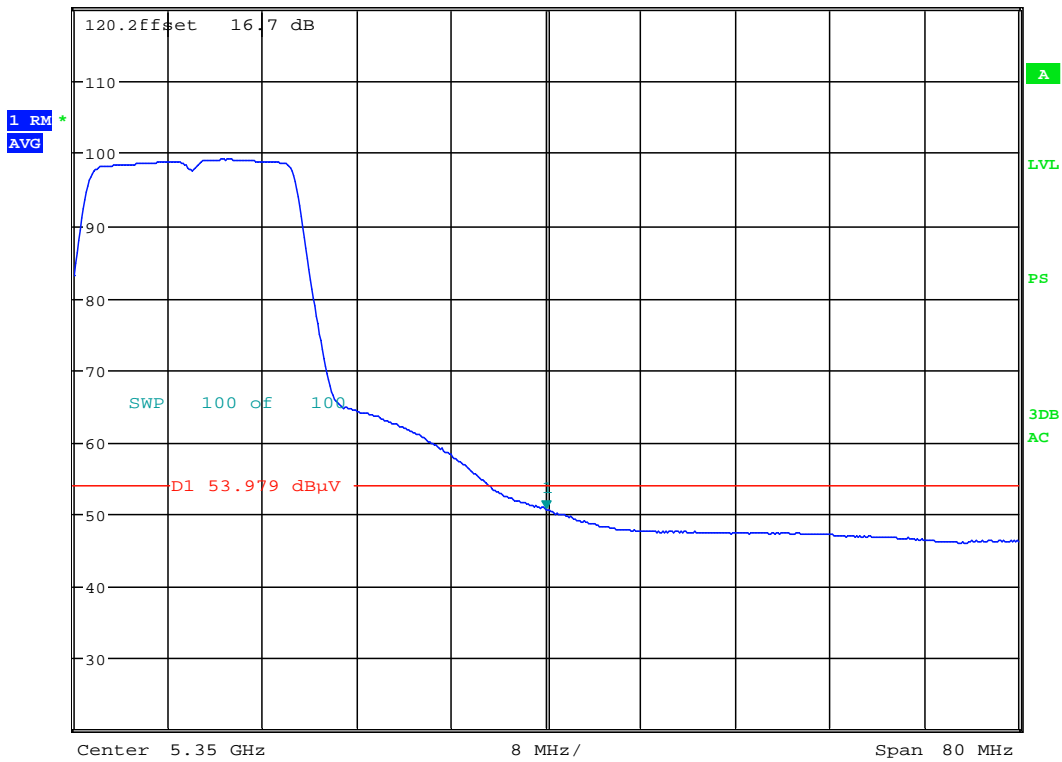
<b>FCC ID:</b> A3LSMT705M		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		<b>Reviewed by:</b> Quality Manager
<b>Test Report S/N:</b> 0Y1404300885.A3L	<b>Test Dates:</b> 4/11 - 5/8/2014	<b>EUT Type:</b> Portable Tablet	Page 137 of 182	

**Radiated Band Edge Measurements (20MHz BW)**  
**\$15.407(b.1)(b.2) \$15.205 \$15.209**

Worst Case Mode: 802.11a  
 Worst Case Transfer Rate: 6 Mbps  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 5320MHz  
 Channel: 64



**MARKER 1**  
 5.35 GHz  
 Ref 120.2 dBµV \* Att 10 dB SWT 20 ms  
 \* RBW 1 MHz \* VBW 3 MHz  
 Marker 1 [T1] 50.60 dBµV  
 5.35000000 GHz



Date: 18.APR.2014 17:23:53

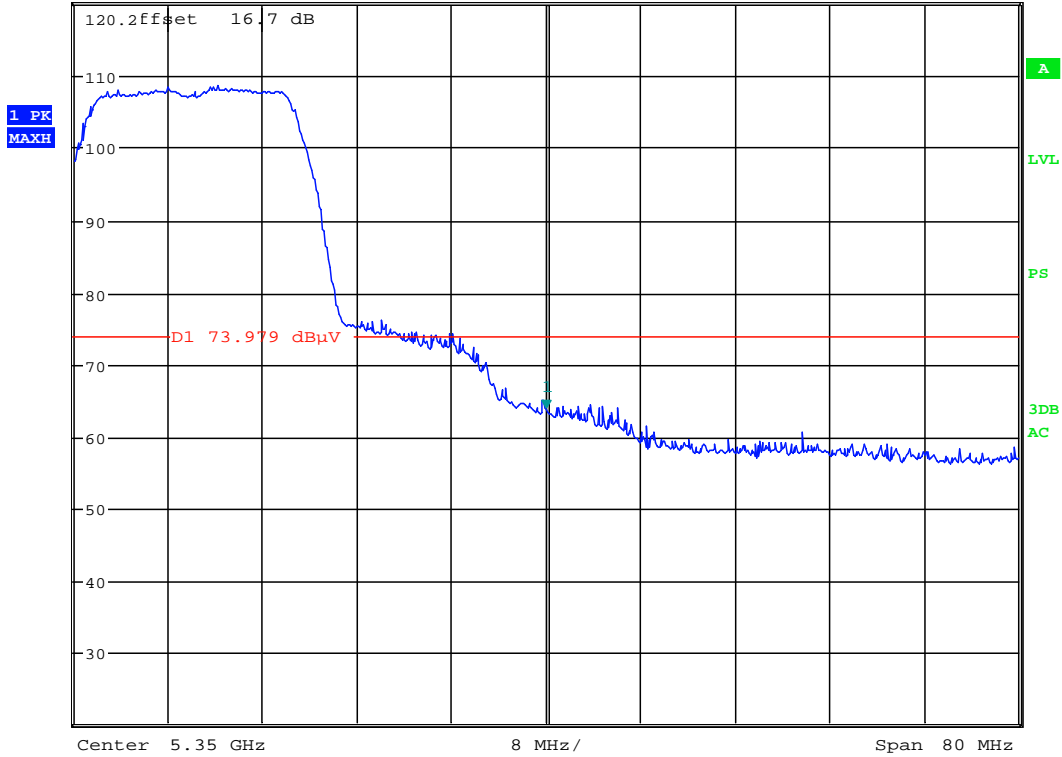
**Plot 6-155. Radiated Restricted Upper Band Edge Plot (Average – UNII Band 2A)**

FCC ID: A3LSMT705M	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1404300885.A3L	Test Dates: 4/11 - 5/8/2014	EUT Type: Portable Tablet	Page 138 of 182	

**Radiated Band Edge Measurements (20MHz BW)**  
**§15.407(b.1)(b.2) §15.205 §15.209**



**MARKER 1**  
5.35 GHz  
Ref 120.2 dBµV \*Att 10 dB  
\*RBW 1 MHz \*VBW 3 MHz SWT 20 ms  
Marker 1 [T1 ] 63.85 dBµV  
5.35000000 GHz



Date: 18.APR.2014 17:24:14

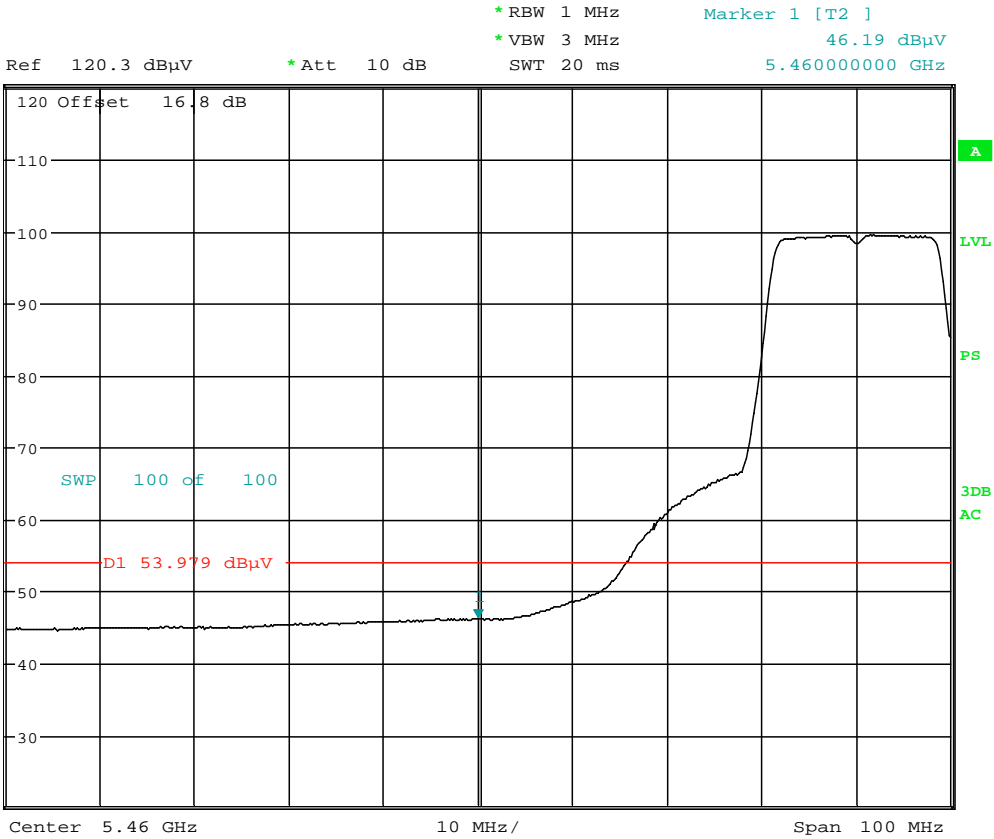
**Plot 6-156. Radiated Restricted Upper Band Edge Plot (Peak – UNII Band 2A)**

FCC ID: A3LSMT705M	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1404300885.A3L	Test Dates: 4/11 - 5/8/2014	EUT Type: Portable Tablet	Page 139 of 182	

# Radiated Band Edge Measurements (20MHz BW)

\$15.407(b.1)(b.2) \$15.205 \$15.209

Worst Case Mode: 802.11a  
 Worst Case Transfer Rate: 6 Mbps  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 5500MHz  
 Channel: 100



Date: 18.APR.2014 17:27:37

**Plot 6-157. Radiated Restricted Lower Band Edge Plot (Average – UNII Band 2C)**

FCC ID: A3LSMT705M		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1404300885.A3L	Test Dates: 4/11 - 5/8/2014	EUT Type: Portable Tablet	Page 140 of 182	

# Radiated Band Edge Measurements (20MHz BW)

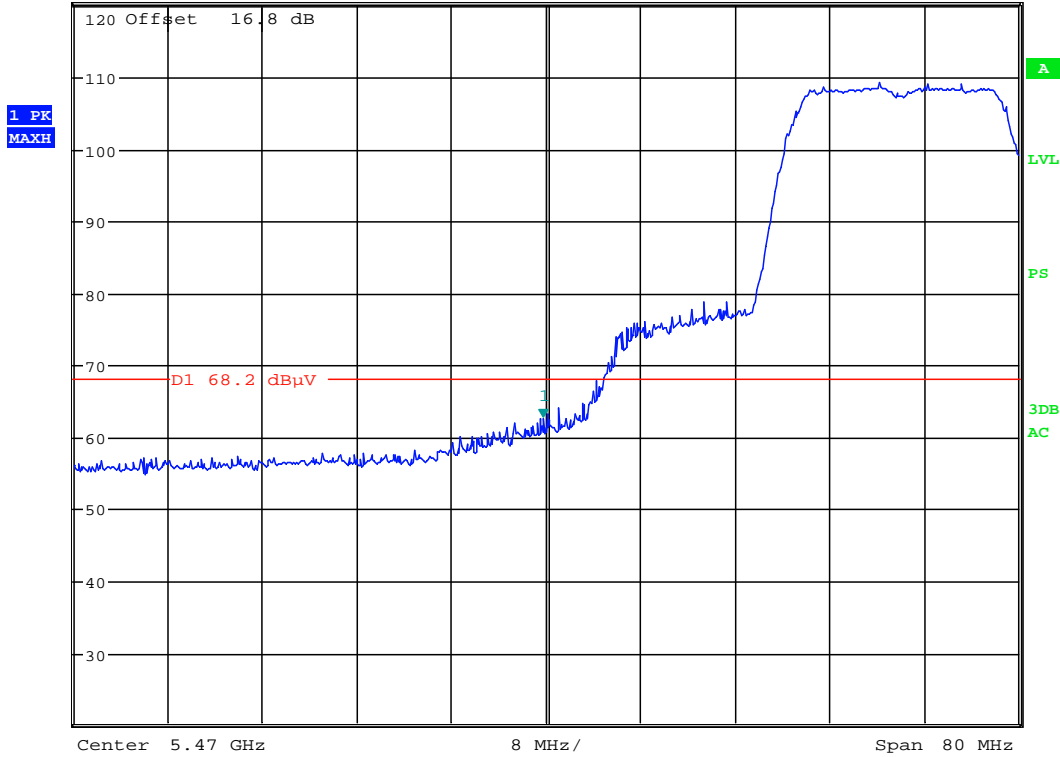
§15.407(b.1)(b.2) §15.205 §15.209



**MARKER 1**  
 5.46974359 GHz  
 Ref 120.3 dBµV \*Att 10 dB

\*RBW 1 MHz  
 \*VBW 3 MHz  
 SWT 20 ms

Marker 1 [T1 ]  
 62.65 dBµV  
 5.469743590 GHz



Date: 18.APR.2014 17:27:59

**Plot 6-158. Radiated Restricted Lower Band Edge Plot (Peak – UNII Band 2C)**

<b>FCC ID:</b> A3LSMT705M		<b>FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)</b>		<b>Reviewed by:</b> Quality Manager
<b>Test Report S/N:</b> 0Y1404300885.A3L	<b>Test Dates:</b> 4/11 - 5/8/2014	<b>EUT Type:</b> Portable Tablet	Page 141 of 182	

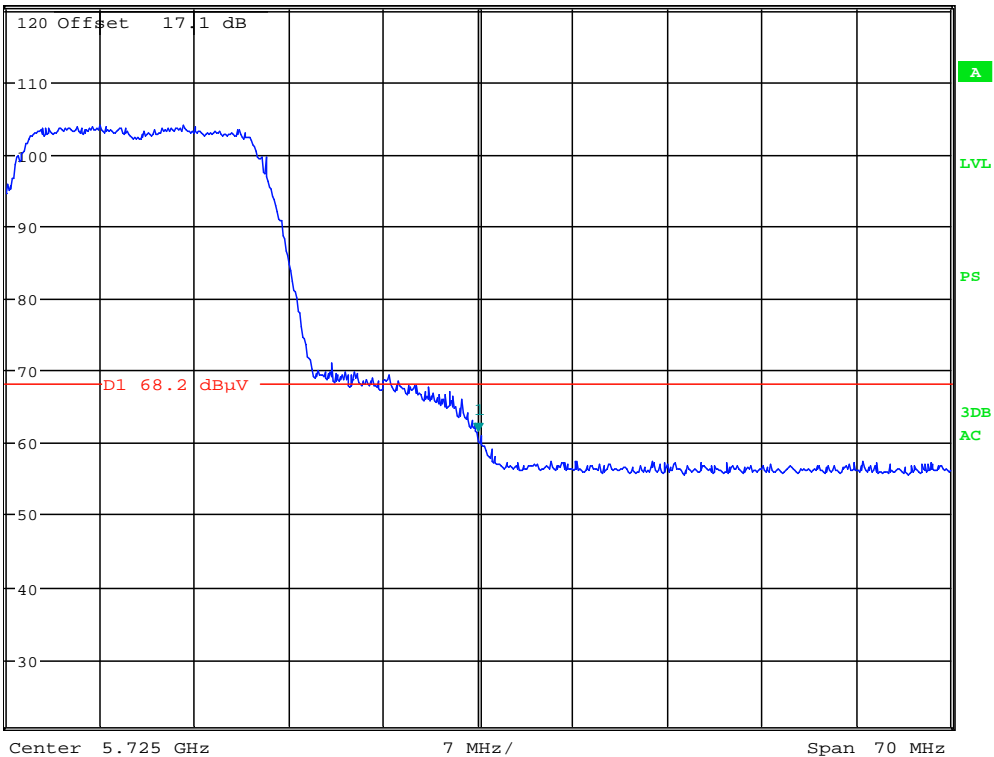
# Radiated Band Edge Measurements (20MHz BW)

§15.407(b.1)(b.2) §15.205 §15.209

Worst Case Mode: 802.11a  
 Worst Case Transfer Rate: 6 Mbps  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 5700MHz  
 Channel: 140



**MARKER 1**  
 5.725 GHz  
 Ref 120.6 dBµV \*Att 10 dB SWT 20 ms  
 \*RBW 1 MHz \*VBW 3 MHz  
 Marker 1 [T1 ] 61.53 dBµV  
 5.725000000 GHz



Date: 23.APR.2014 13:10:27

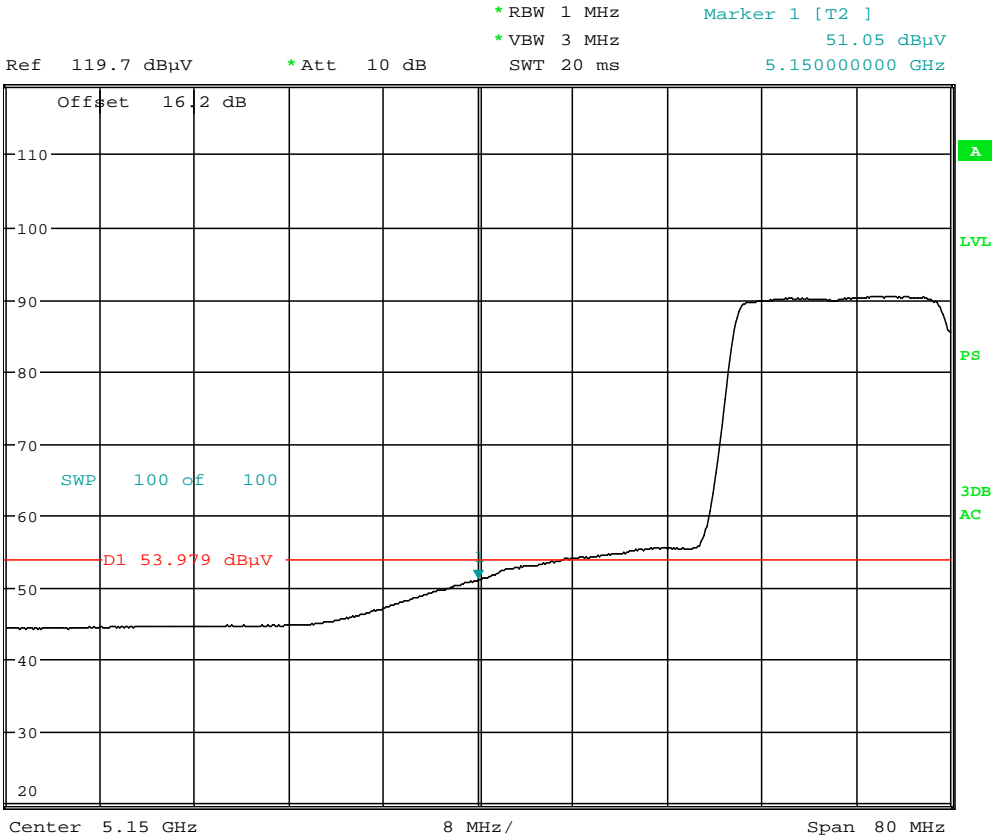
**Plot 6-159. Radiated Upper Band Edge Plot (Peak – UNII Band 2C)**

FCC ID: A3LSMT705M		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1404300885.A3L	Test Dates: 4/11 - 5/8/2014	EUT Type: Portable Tablet	Page 142 of 182	

## 6.12 Antenna-2 Radiated Band Edge Measurements (40MHz BW)

§15.407(b.1)(b.2) §15.205 §15.209

Worst Case Mode: 802.11n (40MHz)  
 Worst Case Transfer Rate: MCS0  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 5190MHz  
 Channel: 38



Date: 23.APR.2014 11:25:33

**Plot 6-160. Radiated Restricted Lower Band Edge Plot (Average – UNII Band 1)**

FCC ID: A3LSMT705M		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1404300885.A3L	Test Dates: 4/11 - 5/8/2014	EUT Type: Portable Tablet	Page 143 of 182	

# Radiated Band Edge Measurements (40MHz BW)

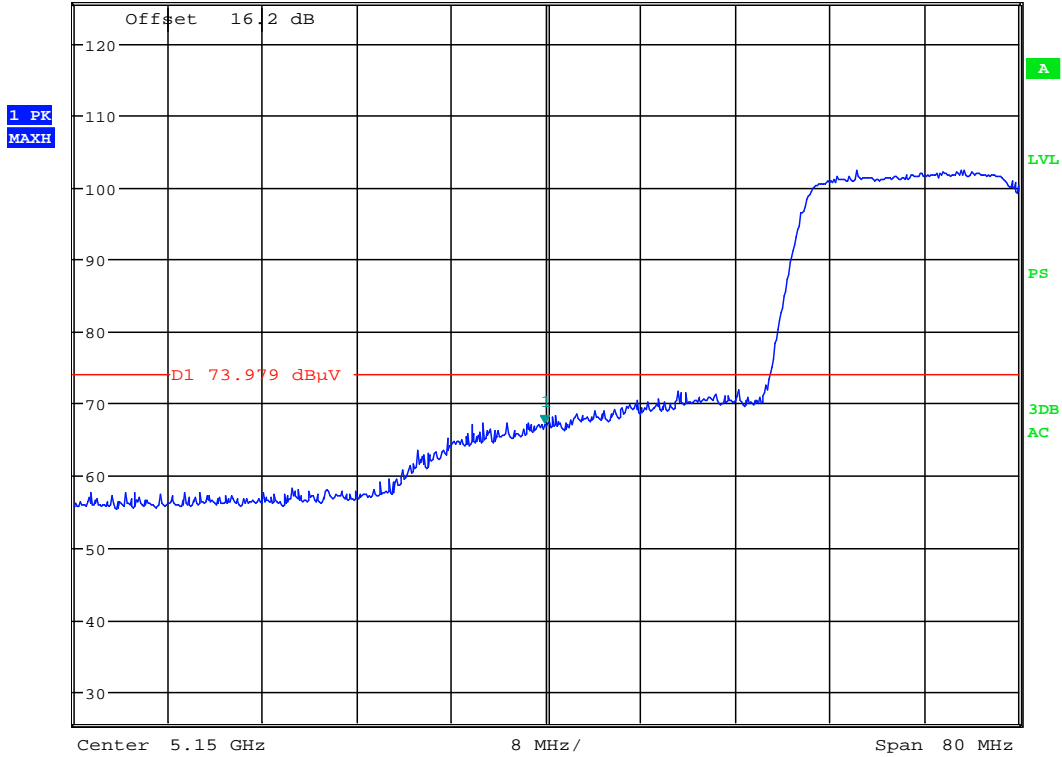
§15.407(b.1)(b.2) §15.205 §15.209



**MARKER 1**  
 5.149871795 GHz  
 Ref 125.6 dBµV \*Att 10 dB

\*RBW 1 MHz  
 \*VBW 3 MHz  
 SWT 20 ms

Marker 1 [T1 ]  
 67.07 dBµV  
 5.149871795 GHz



Date: 21.APR.2014 13:56:57

**Plot 6-161. Radiated Restricted Lower Band Edge Plot (Peak – UNII Band 1)**

FCC ID: A3LSMT705M		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1404300885.A3L	Test Dates: 4/11 - 5/8/2014	EUT Type: Portable Tablet		Page 144 of 182

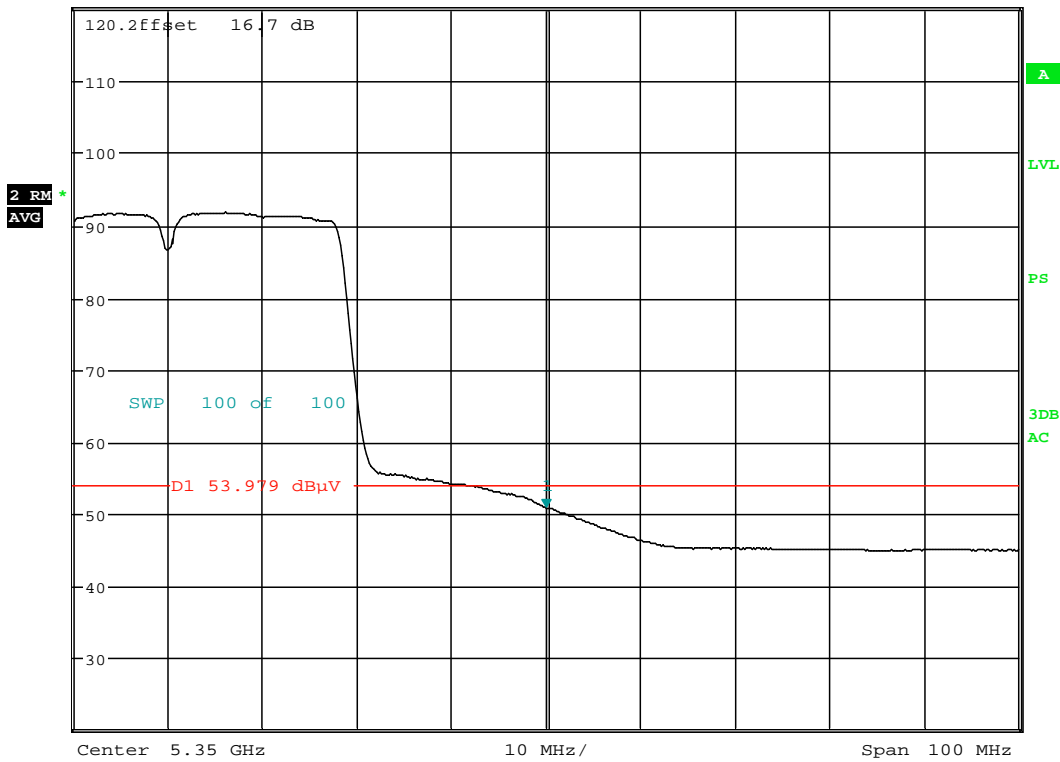
# Radiated Band Edge Measurements (40MHz BW)

\$15.407(b.1)(b.2) \$15.205 \$15.209

Worst Case Mode: 802.11n (40MHz)  
 Worst Case Transfer Rate: MCS0  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 5310MHz  
 Channel: 62



Ref 120.2 dBµV      \* Att 10 dB      SWT 20 ms      Marker 1 [T2 ]      50.81 dBµV  
 \* RBW 1 MHz      \* VBW 3 MHz      5.350064103 GHz



Date: 23.APR.2014 12:09:51

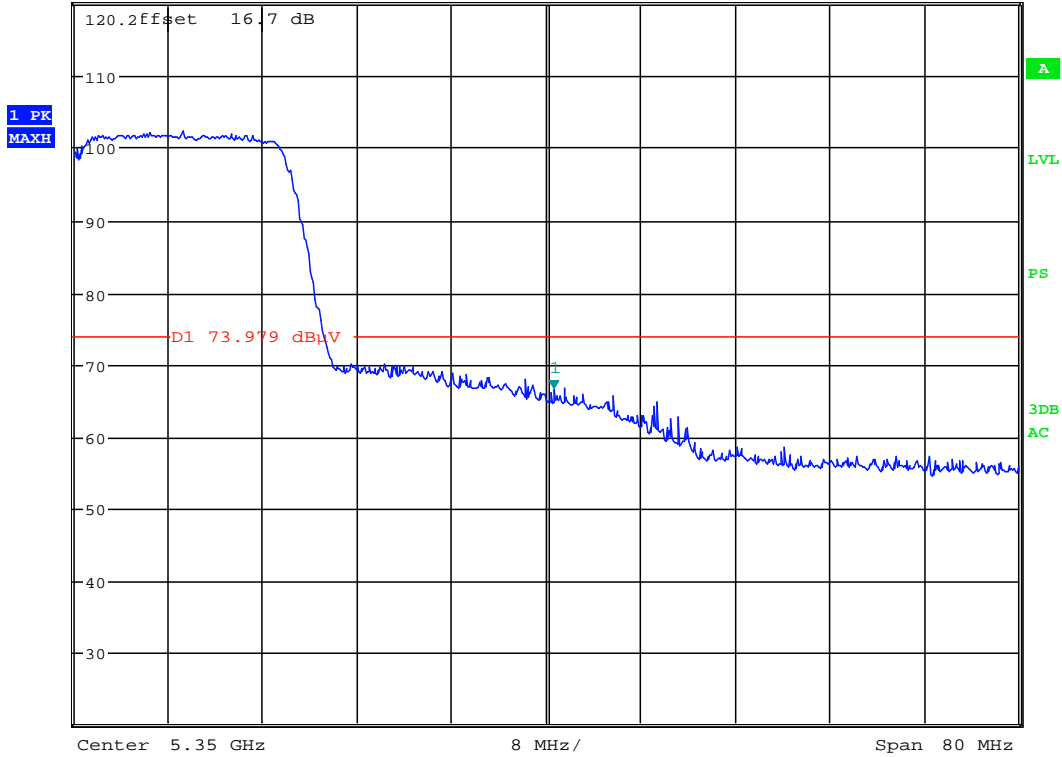
**Plot 6-162. Radiated Restricted Upper Band Edge Plot (Average – UNII Band 2A)**

FCC ID: A3LSMT705M		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1404300885.A3L	Test Dates: 4/11 - 5/8/2014	EUT Type: Portable Tablet	Page 145 of 182	

**Radiated Band Edge Measurements (40MHz BW)**  
**§15.407(b.1)(b.2) §15.205 §15.209**



**MARKER 1**  
5.350641026 GHz  
Ref 120.2 dBµV \*Att 10 dB  
\*RBW 1 MHz \*VBW 3 MHz SWT 20 ms  
Marker 1 [T1 ] 66.52 dBµV  
5.350641026 GHz



Date: 21.APR.2014 14:03:03

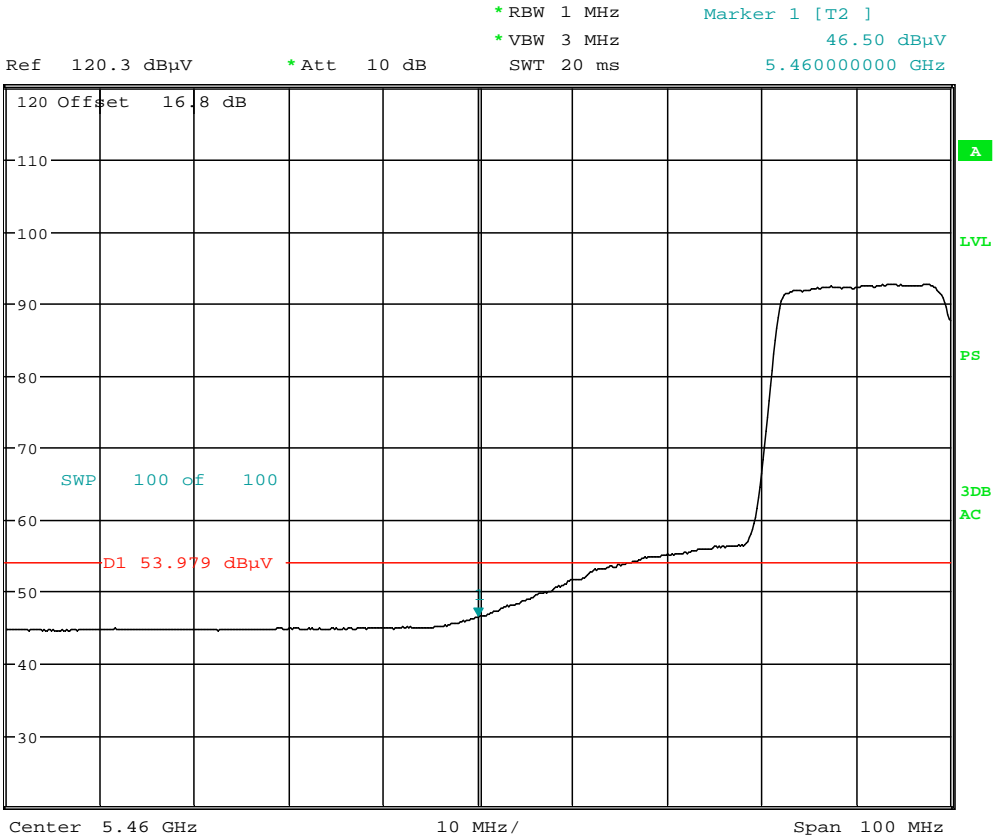
**Plot 6-163. Radiated Restricted Upper Band Edge Plot (Peak – UNII Band 2A)**

<b>FCC ID:</b> A3LSMT705M		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		<b>Reviewed by:</b> Quality Manager
<b>Test Report S/N:</b> 0Y1404300885.A3L	<b>Test Dates:</b> 4/11 - 5/8/2014	<b>EUT Type:</b> Portable Tablet	Page 146 of 182	

# Radiated Band Edge Measurements (40MHz BW)

\$15.407(b.1)(b.2) \$15.205 \$15.209

Worst Case Mode: 802.11n (40MHz)  
 Worst Case Transfer Rate: MCS0  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 5510MHz  
 Channel: 102



Date: 23.APR.2014 12:23:57

**Plot 6-164. Radiated Restricted Lower Band Edge Plot (Average – UNII Band 2C)**

FCC ID: A3LSMT705M		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1404300885.A3L	Test Dates: 4/11 - 5/8/2014	EUT Type: Portable Tablet	Page 147 of 182	

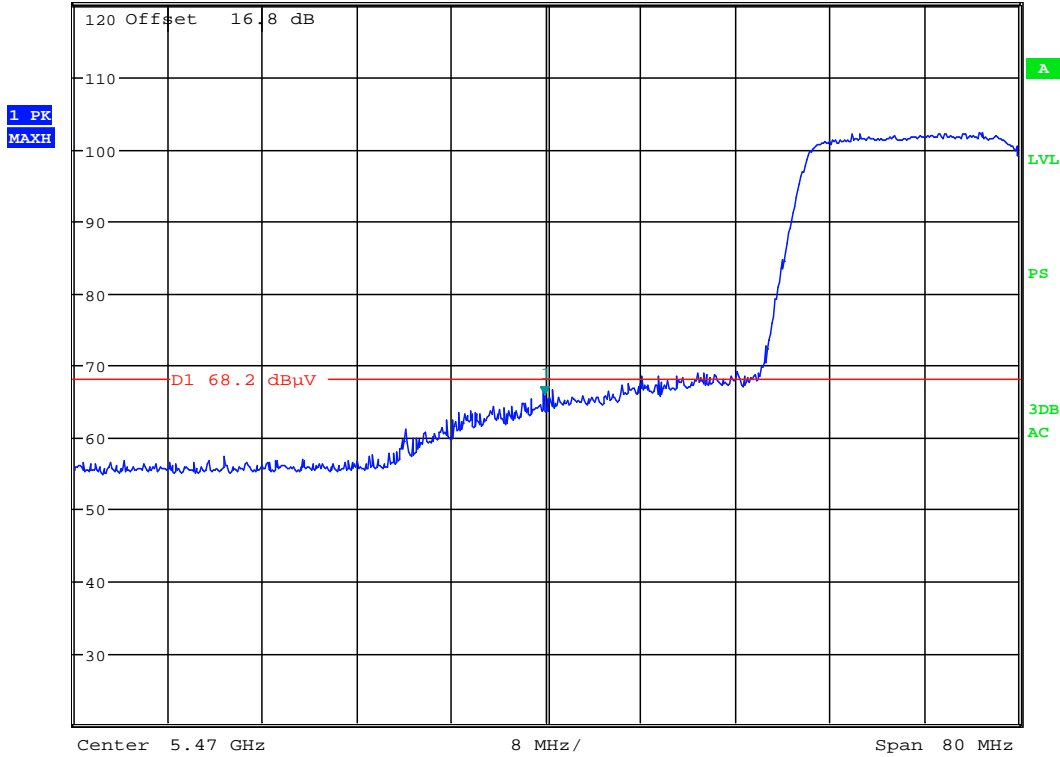
**Radiated Band Edge Measurements (40MHz BW)**  
**\$15.407(b.1)(b.2) \$15.205 \$15.209**



**MARKER 1**  
5.469871795 GHz  
Ref 120.3 dBµV \*Att 10 dB

\*RBW 1 MHz  
\*VBW 3 MHz  
SWT 20 ms

Marker 1 [T1 ]  
65.85 dBµV  
5.469871795 GHz



Date: 23.APR.2014 12:24:29

**Plot 6-165. Radiated Restricted Lower Band Edge Plot (Peak – UNII Band 2C)**

<b>FCC ID:</b> A3LSMT705M		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		<b>Reviewed by:</b> Quality Manager
<b>Test Report S/N:</b> 0Y1404300885.A3L	<b>Test Dates:</b> 4/11 - 5/8/2014	<b>EUT Type:</b> Portable Tablet	Page 148 of 182	

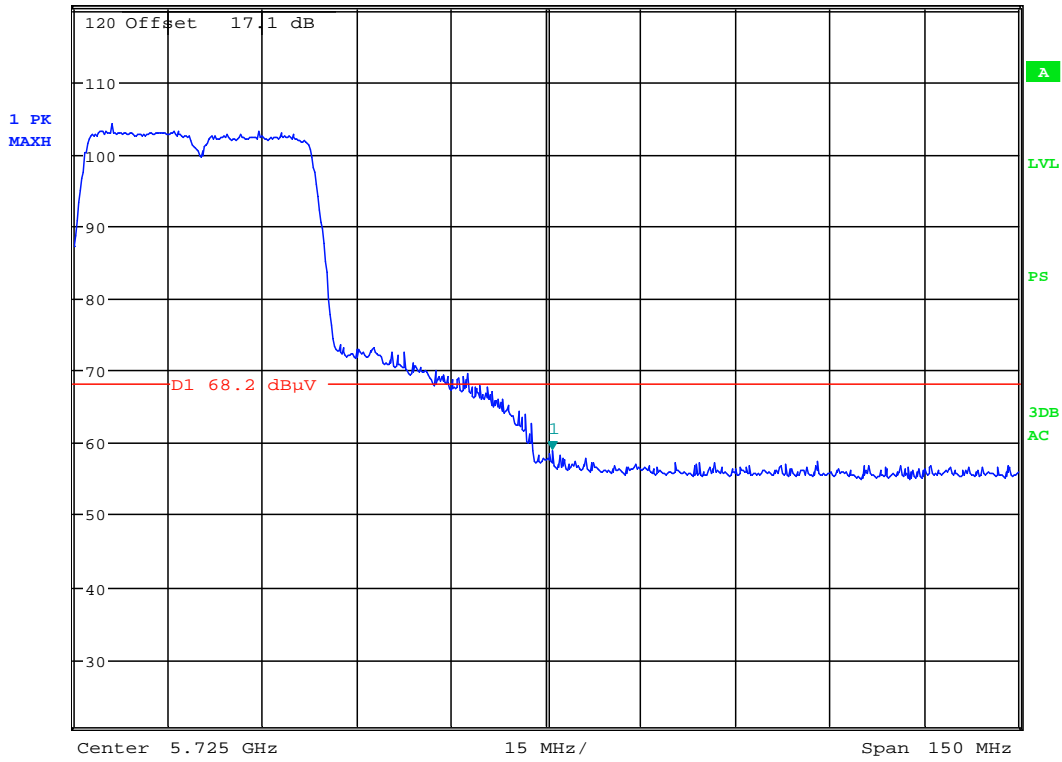
# Radiated Band Edge Measurements (40MHz BW)

§15.407(b.1)(b.2) §15.205 §15.209

Worst Case Mode: 802.11n (40MHz)  
 Worst Case Transfer Rate: MCS0  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 5670MHz  
 Channel: 134



**MARKER 1**  
 5.72588141 GHz  
 Ref 120.6 dBµV \*Att 10 dB SWT 20 ms  
 \*RBW 1 MHz \*VBW 3 MHz  
 Marker 1 [T1] 59.02 dBµV  
 5.725881410 GHz



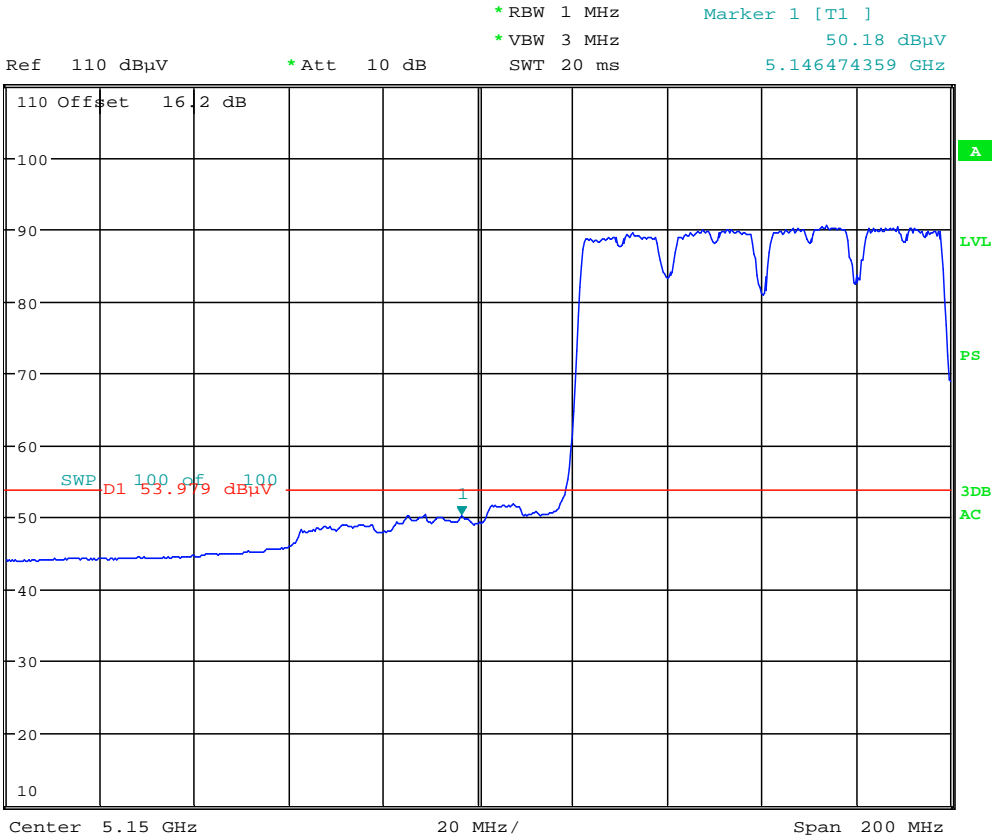
Date: 21.APR.2014 14:12:34

**Plot 6-166. Radiated Upper Band Edge Plot (Peak – UNII Band 2C)**

FCC ID: A3LSMT705M		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1404300885.A3L	Test Dates: 4/11 - 5/8/2014	EUT Type: Portable Tablet	Page 149 of 182	

### 6.13 Antenna-2 Radiated Band Edge Measurements (80MHz BW) §15.407(b.1)(b.2) §15.205 §15.209

Worst Case Mode: 802.11ac (80MHz)  
 Worst Case Transfer Rate: MCS0  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 5210MHz  
 Channel: 42



Date: 28.APR.2014 20:42:35

**Plot 6-167. Radiated Restricted Lower Band Edge Plot (Average – UNII Band 1)**

FCC ID: A3LSMT705M		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1404300885.A3L	Test Dates: 4/11 - 5/8/2014	EUT Type: Portable Tablet	Page 150 of 182	

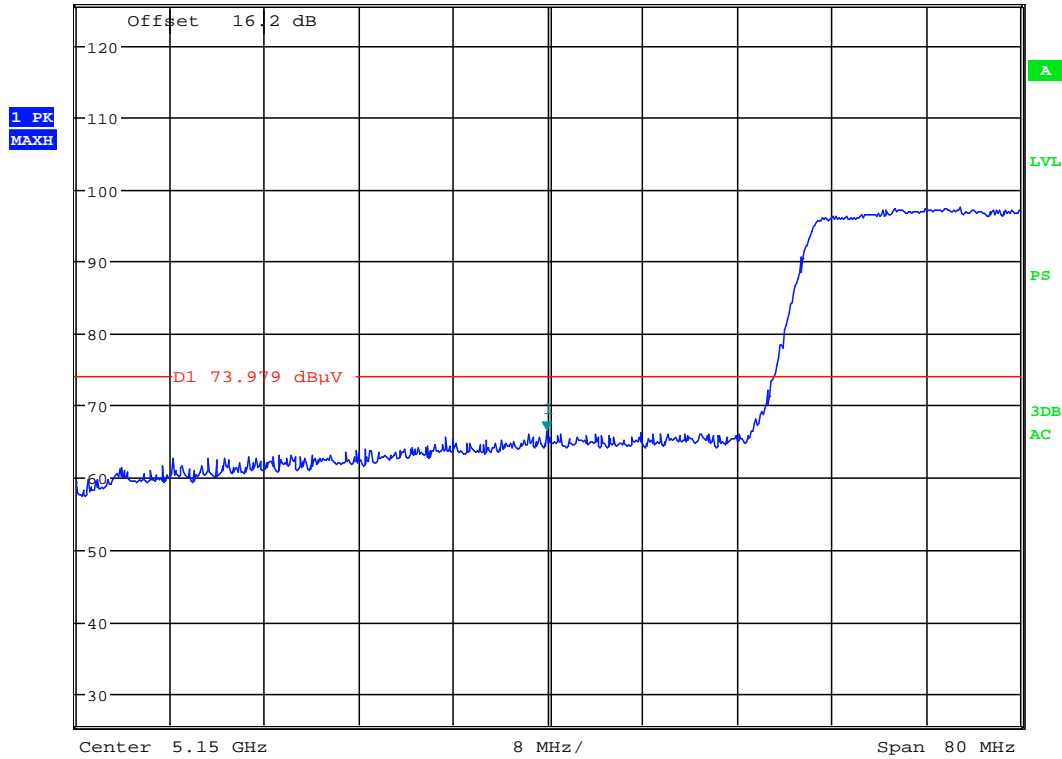
**Radiated Band Edge Measurements (80MHz BW)**  
**§15.407(b.1)(b.2) §15.205 §15.209**



**MARKER 1**  
5.149871795 GHz  
Ref 125.6 dBµV \*Att 10 dB

\*RBW 1 MHz  
\*VBW 3 MHz  
SWT 20 ms

Marker 1 [T1 ]  
66.40 dBµV  
5.149871795 GHz



Date: 21.APR.2014 15:00:52

**Plot 6-168. Radiated Restricted Lower Band Edge Plot (Peak - UNII Band 1)**

<b>FCC ID:</b> A3LSMT705M		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		<b>Reviewed by:</b> Quality Manager
<b>Test Report S/N:</b> 0Y1404300885.A3L	<b>Test Dates:</b> 4/11 - 5/8/2014	<b>EUT Type:</b> Portable Tablet	Page 151 of 182	

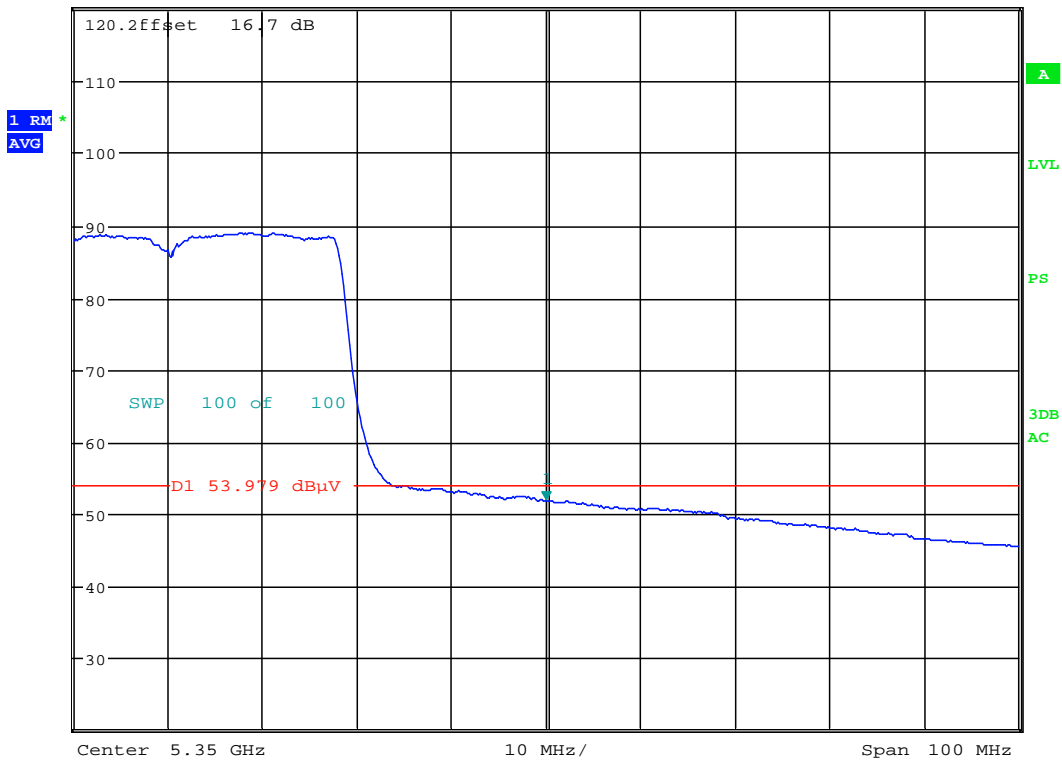
# Radiated Band Edge Measurements (80MHz BW)

\$15.407(b.1)(b.2) \$15.205 \$15.209

Worst Case Mode: 802.11ac (80MHz)  
 Worst Case Transfer Rate: MCS0  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 5290MHz  
 Channel: 58



**MARKER 1**  
 5.35 GHz  
 Ref 120.2 dBµV \* Att 10 dB SWT 20 ms  
 \* RBW 1 MHz \* VBW 3 MHz  
 Marker 1 [T1] 51.82 dBµV  
 5.35000000 GHz



Date: 23.APR.2014 12:45:37

**Plot 6-169. Radiated Restricted Upper Band Edge Plot (Average – UNII Band 2A)**

FCC ID: A3LSMT705M		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1404300885.A3L	Test Dates: 4/11 - 5/8/2014	EUT Type: Portable Tablet		Page 152 of 182

# Radiated Band Edge Measurements (80MHz BW)

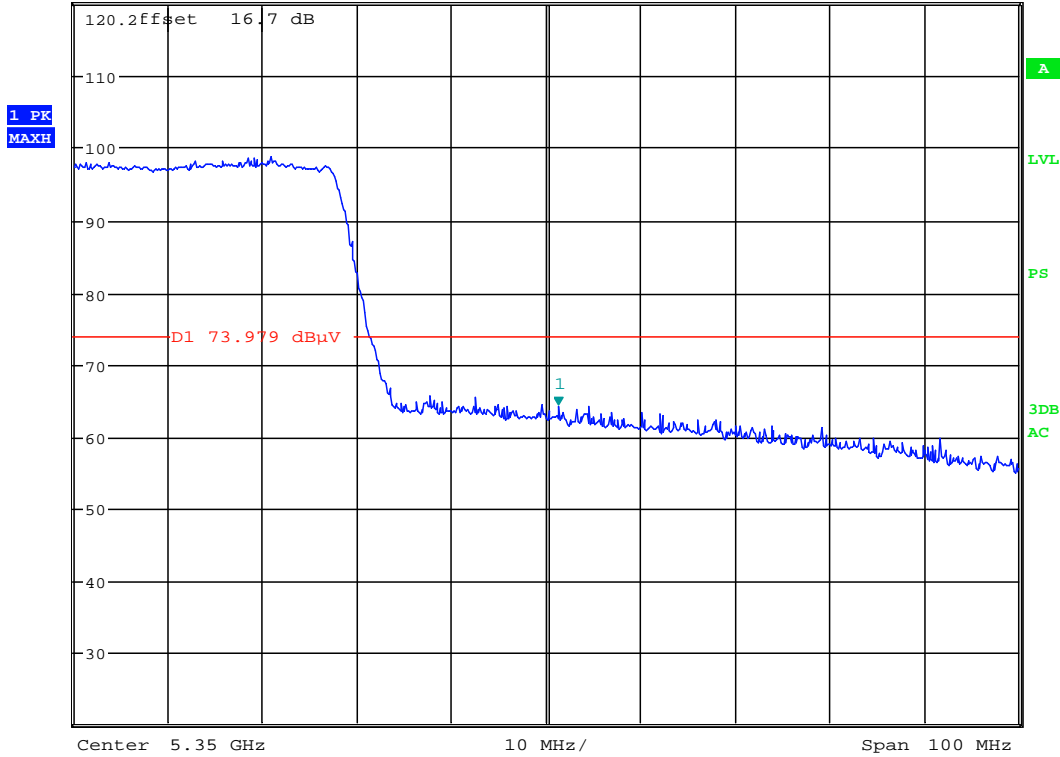
§15.407(b.1)(b.2) §15.205 §15.209



**MARKER 1**  
 5.351282051 GHz  
 Ref 120.2 dBµV \*Att 10 dB

\*RBW 1 MHz  
 \*VBW 3 MHz  
 SWT 20 ms

Marker 1 [T1 ]  
 64.21 dBµV  
 5.351282051 GHz



Date: 23.APR.2014 12:45:58

**Plot 6-170. Radiated Restricted Upper Band Edge Plot (Peak – UNII Band 2A)**

FCC ID: A3LSMT705M		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1404300885.A3L	Test Dates: 4/11 - 5/8/2014	EUT Type: Portable Tablet		Page 153 of 182

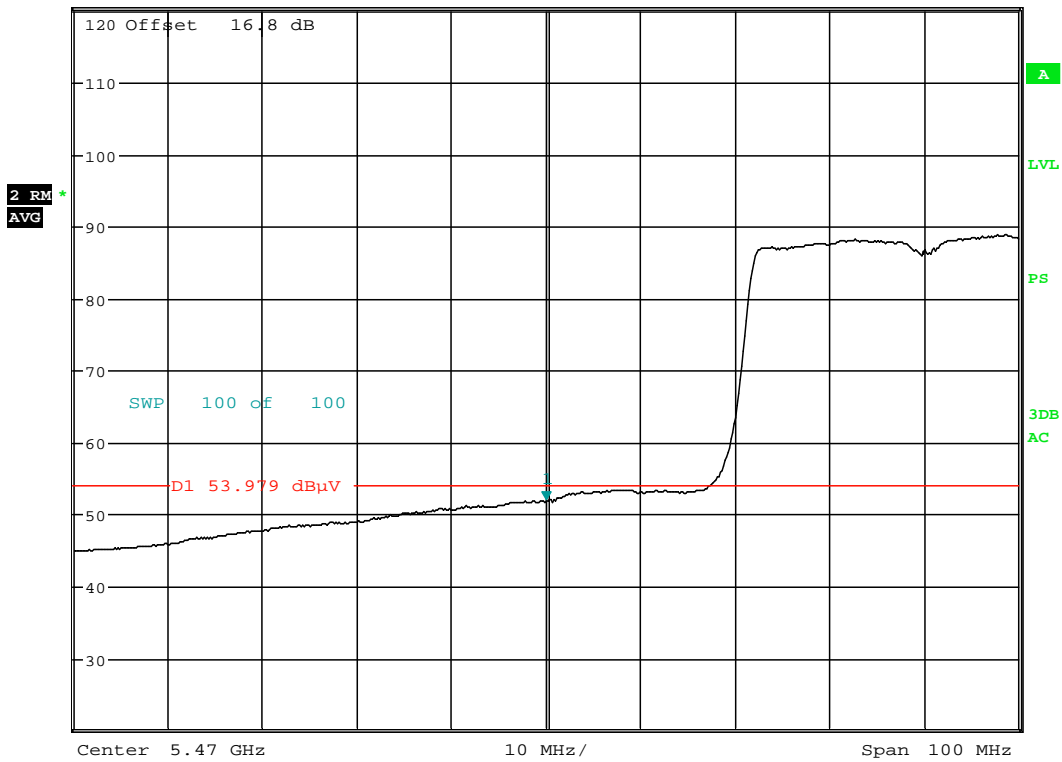
# Radiated Band Edge Measurements (80MHz BW)

\$15.407(b.1)(b.2) \$15.205 \$15.209

Worst Case Mode: 802.11ac (80MHz)  
 Worst Case Transfer Rate: MCS0  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 5530MHz  
 Channel: 106



Ref 120.3 dBµV      \* Att 10 dB      SWT 20 ms      Marker 1 [T2] 51.96 dBµV  
 \* RBW 1 MHz      \* VBW 3 MHz      5.469935897 GHz



Date: 21.APR.2014 15:11:42

**Plot 6-171. Radiated Restricted Lower Band Edge Plot (Average – UNII Band 2C)**

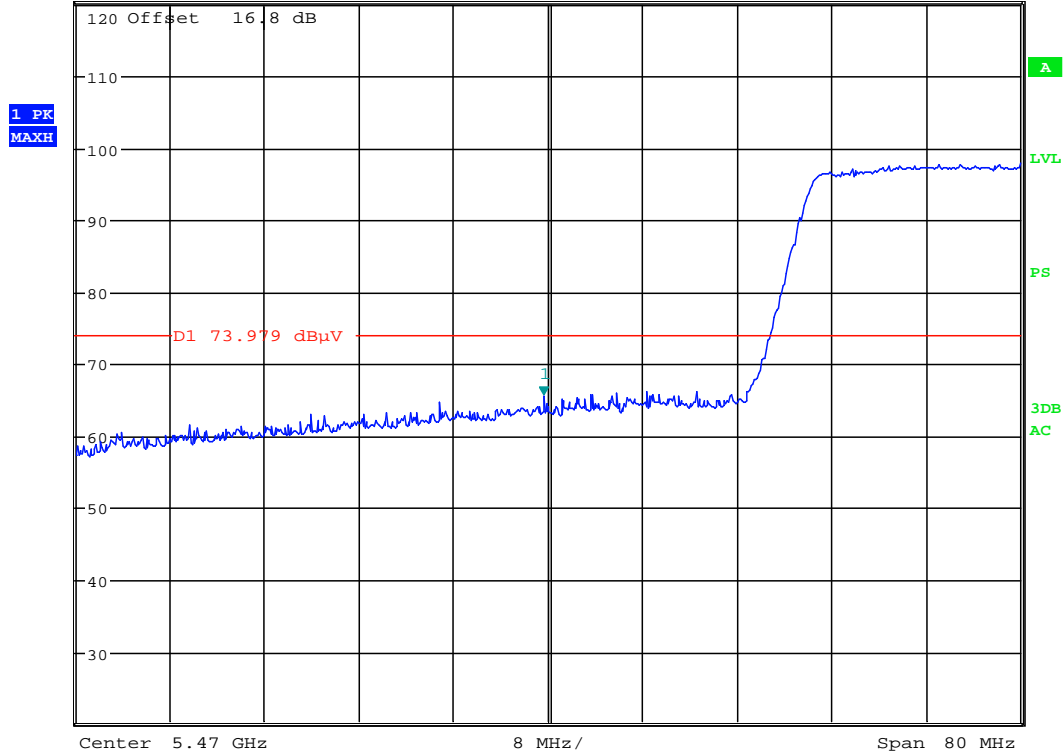
FCC ID: A3LSMT705M		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1404300885.A3L	Test Dates: 4/11 - 5/8/2014	EUT Type: Portable Tablet		Page 154 of 182

# Radiated Band Edge Measurements (80MHz BW)

§15.407(b.1)(b.2) §15.205 §15.209



**MARKER 1**  
 5.469615385 GHz  
 Ref 120.3 dBµV \*Att 10 dB SWT 20 ms  
 \*RBW 1 MHz Marker 1 [T1] 65.52 dBµV  
 \*VBW 3 MHz 5.469615385 GHz



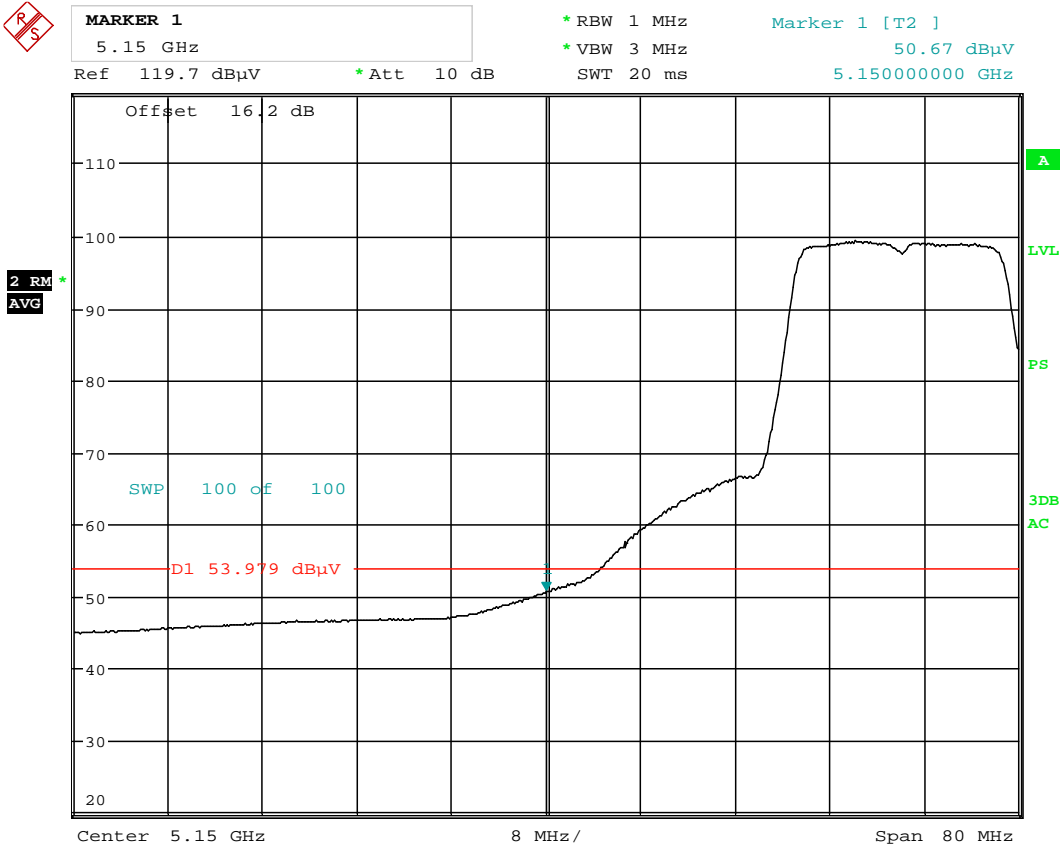
Date: 21.APR.2014 15:12:13

**Plot 6-172. Radiated Restricted Lower Band Edge Plot (Peak – UNII Band 2C)**

<b>FCC ID:</b> A3LSMT705M		<b>FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)</b>		<b>Reviewed by:</b> Quality Manager
<b>Test Report S/N:</b> 0Y1404300885.A3L	<b>Test Dates:</b> 4/11 - 5/8/2014	<b>EUT Type:</b> Portable Tablet	Page 155 of 182	

### 6.14 MIMO Radiated Band Edge Measurements (20MHz BW) §15.407(b.1)(b.2) §15.205 §15.209

Worst Case Mode: 802.11n (20MHz)  
 Worst Case Transfer Rate: MCS8  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 5180MHz  
 Channel: 36



Date: 18.APR.2014 17:35:52

**Plot 6-173. Radiated Restricted Lower Band Edge Plot (Average – UNII Band 1)**

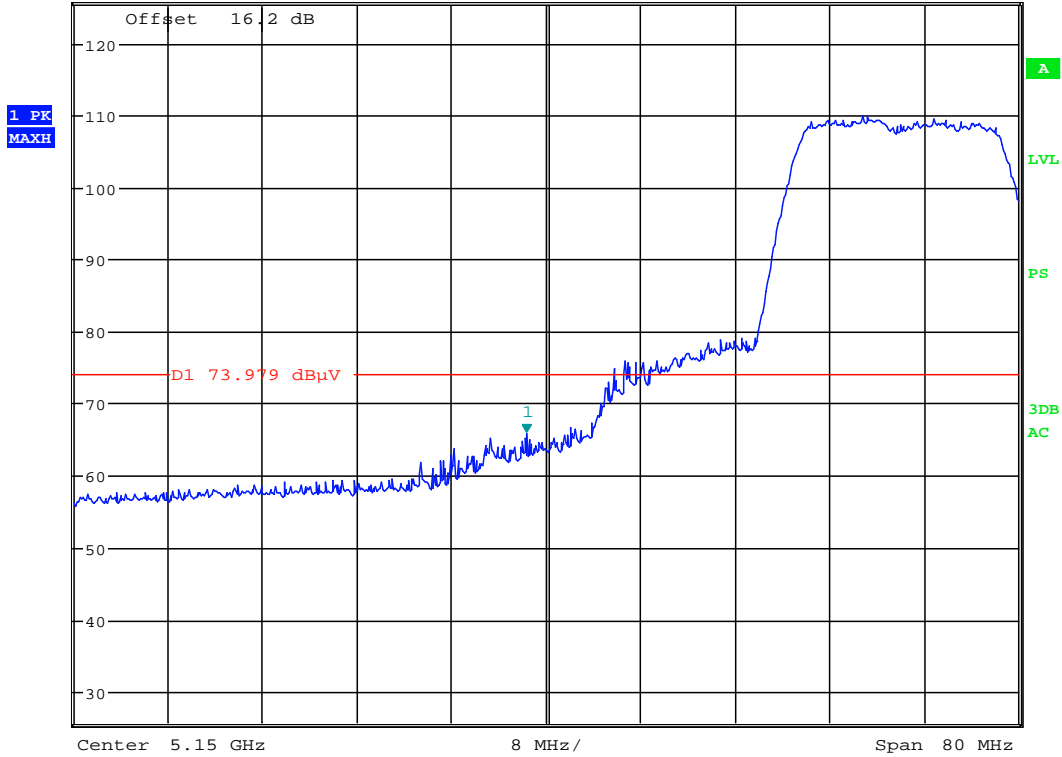
FCC ID: A3LSMT705M		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1404300885.A3L	Test Dates: 4/11 - 5/8/2014	EUT Type: Portable Tablet	Page 156 of 182	

# Radiated Band Edge Measurements (20MHz BW)

§15.407(b.1)(b.2) §15.205 §15.209



<b>MARKER 1</b>		* RBW 1 MHz	Marker 1 [T1 ]
5.148333333 GHz		* VBW 3 MHz	65.73 dBµV
Ref 125.6 dBµV	* Att 10 dB	SWT 20 ms	5.148333333 GHz



Date: 18.APR.2014 17:36:12

**Plot 6-174. Radiated Restricted Lower Band Edge Plot (Peak – UNII Band 1)**

<b>FCC ID:</b> A3LSMT705M		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		<b>Reviewed by:</b> Quality Manager
<b>Test Report S/N:</b> 0Y1404300885.A3L	<b>Test Dates:</b> 4/11 - 5/8/2014	<b>EUT Type:</b> Portable Tablet	Page 157 of 182	

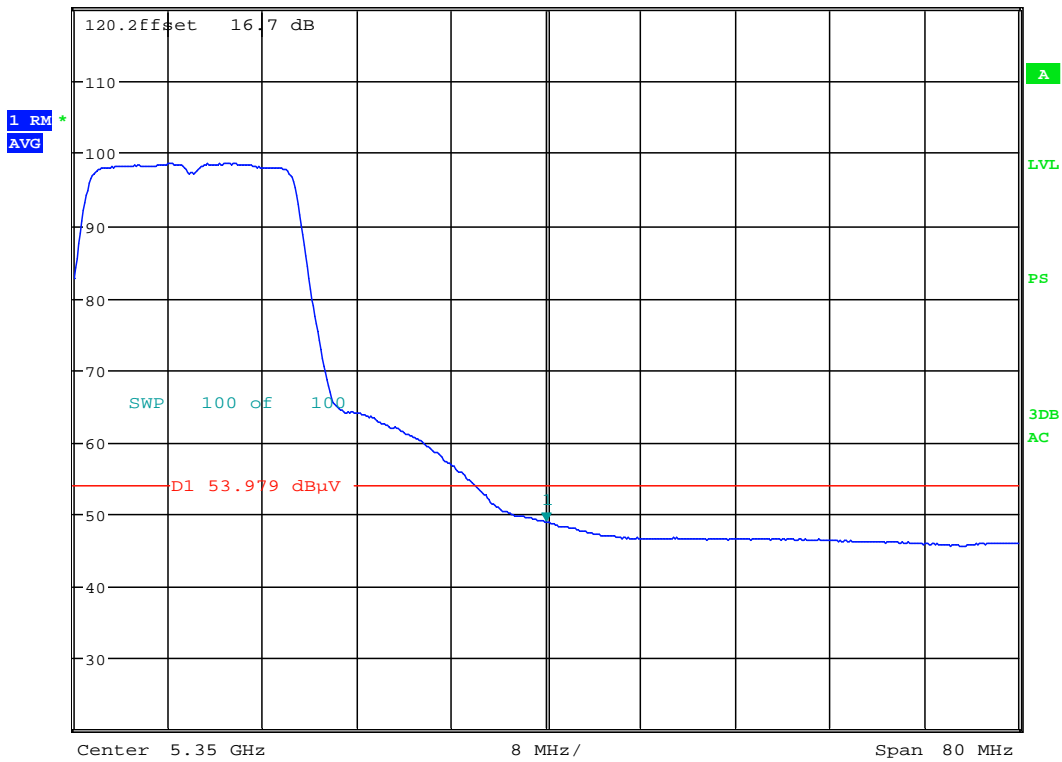
# Radiated Band Edge Measurements (20MHz BW)

\$15.407(b.1)(b.2) \$15.205 \$15.209

Worst Case Mode: 802.11n (20MHz)  
 Worst Case Transfer Rate: MCS8  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 5320MHz  
 Channel: 64



**MARKER 1**  
 5.35 GHz  
 Ref 120.2 dBµV \* Att 10 dB SWT 20 ms  
 \* RBW 1 MHz \* VBW 3 MHz  
 Marker 1 [T1] 48.91 dBµV  
 5.35000000 GHz



Date: 18.APR.2014 17:38:37

**Plot 6-175. Radiated Restricted Upper Band Edge Plot (Average – UNII Band 2A)**

FCC ID: A3LSMT705M		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1404300885.A3L	Test Dates: 4/11 - 5/8/2014	EUT Type: Portable Tablet		Page 158 of 182

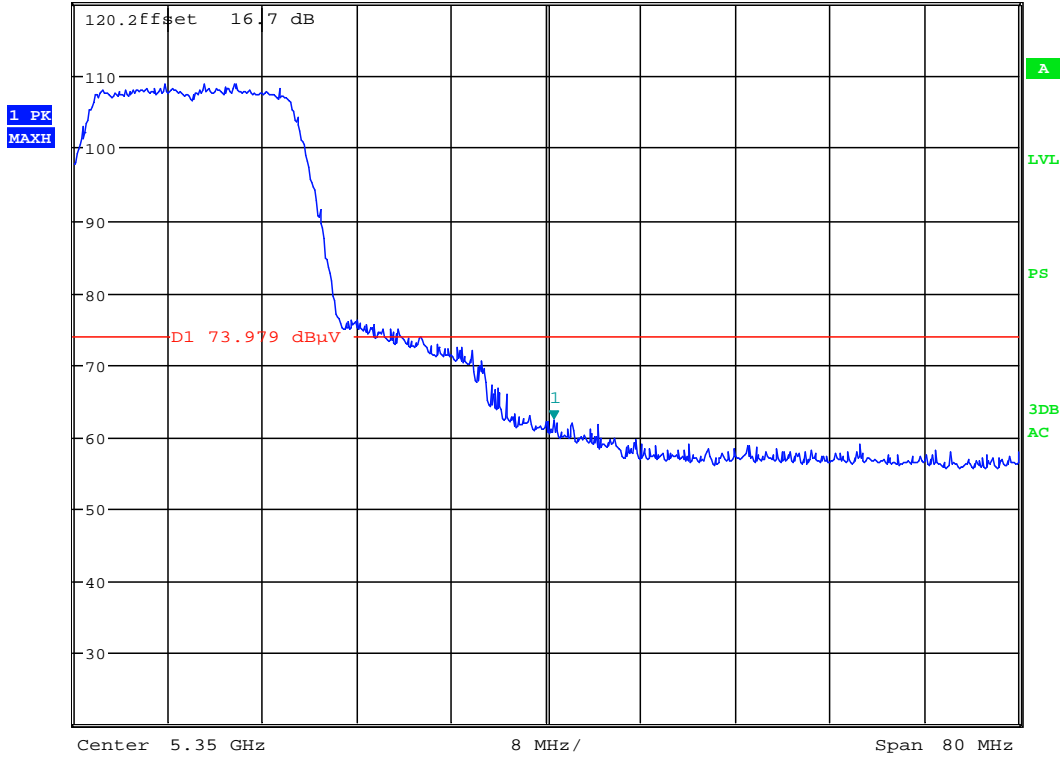
**Radiated Band Edge Measurements (20MHz BW)**  
**\$15.407(b.1)(b.2) \$15.205 \$15.209**



**MARKER 1**  
5.350641026 GHz  
Ref 120.2 dBµV \*Att 10 dB

\*RBW 1 MHz  
\*VBW 3 MHz  
SWT 20 ms

Marker 1 [T1 ]  
62.30 dBµV  
5.350641026 GHz



Date: 18.APR.2014 17:38:50

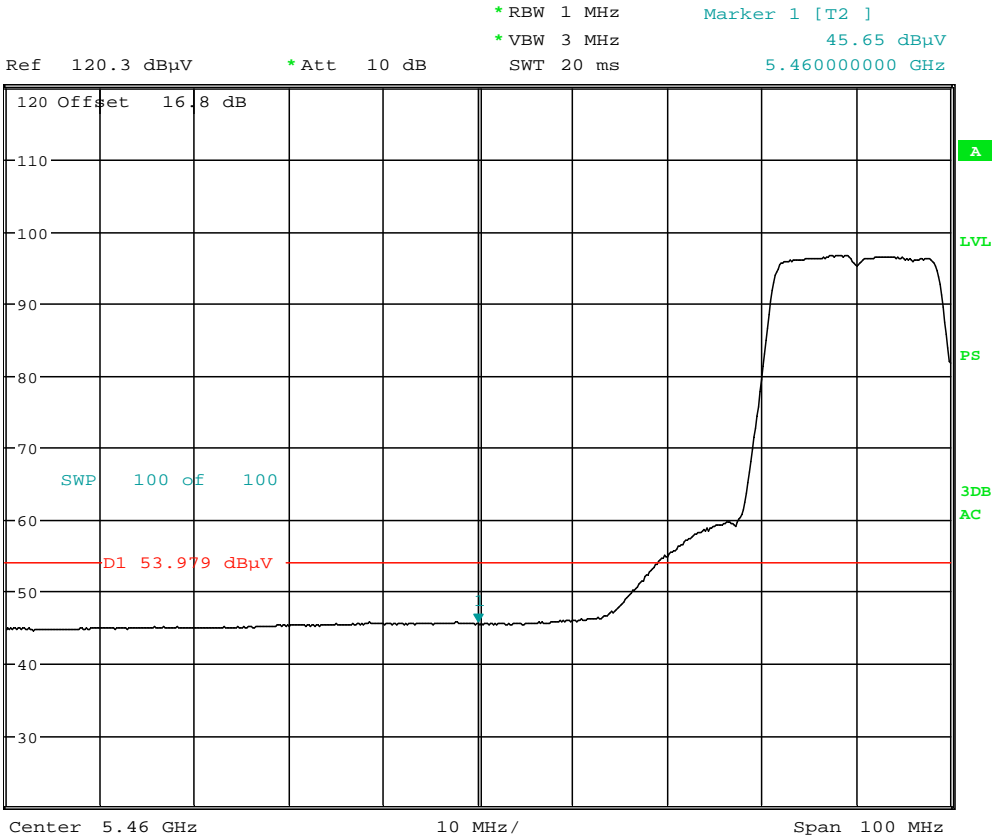
**Plot 6-176. Radiated Restricted Upper Band Edge Plot (Peak – UNII Band 2A)**

<b>FCC ID:</b> A3LSMT705M		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		<b>Reviewed by:</b> Quality Manager
<b>Test Report S/N:</b> 0Y1404300885.A3L	<b>Test Dates:</b> 4/11 - 5/8/2014	<b>EUT Type:</b> Portable Tablet	Page 159 of 182	

# Radiated Band Edge Measurements (20MHz BW)

\$15.407(b.1)(b.2) \$15.205 \$15.209

Worst Case Mode: 802.11n (20MHz)  
 Worst Case Transfer Rate: MCS8  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 5500MHz  
 Channel: 100



Date: 18.APR.2014 17:42:22

**Plot 6-177. Radiated Restricted Lower Band Edge Plot (Average – UNII Band 2C)**

FCC ID: A3LSMT705M		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1404300885.A3L	Test Dates: 4/11 - 5/8/2014	EUT Type: Portable Tablet	Page 160 of 182	

# Radiated Band Edge Measurements (20MHz BW)

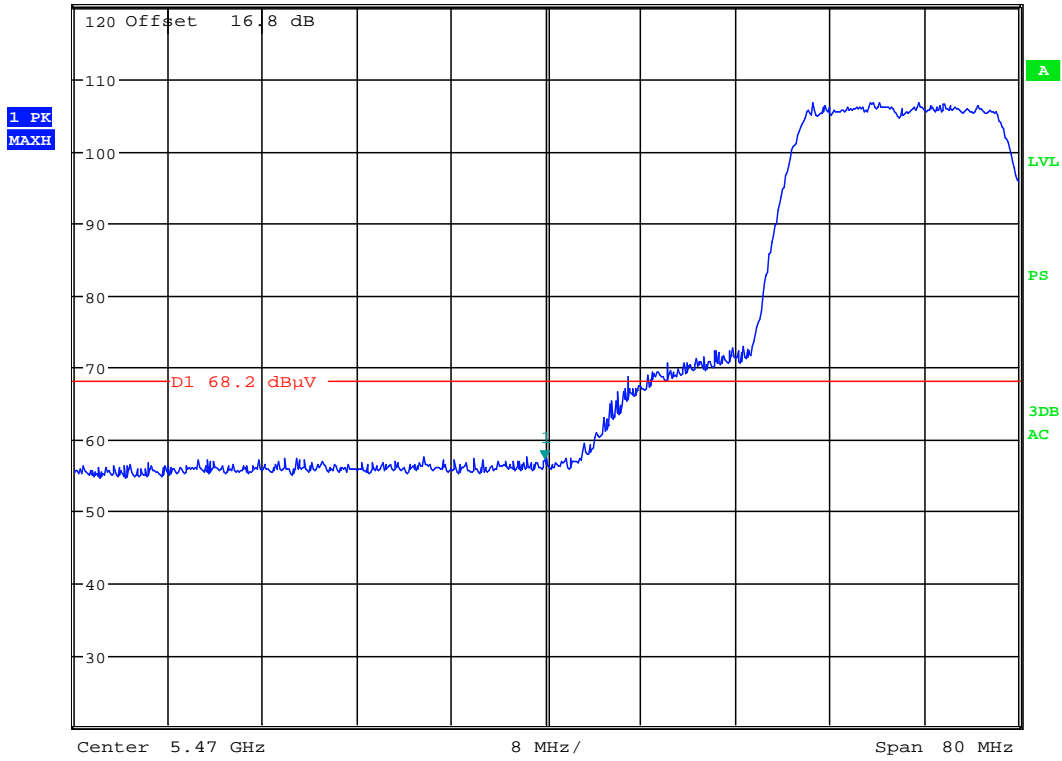
§15.407(b.1)(b.2) §15.205 §15.209



**MARKER 1**  
 5.469871795 GHz  
 Ref 120.3 dBµV \* Att 10 dB

\* RBW 1 MHz  
 \* VBW 3 MHz  
 SWT 20 ms

Marker 1 [T1 ]  
 57.17 dBµV  
 5.469871795 GHz



Date: 18.APR.2014 17:42:36

**Plot 6-178. Radiated Restricted Lower Band Edge Plot (Peak – UNII Band 2C)**

<b>FCC ID:</b> A3LSMT705M		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		<b>Reviewed by:</b> Quality Manager
<b>Test Report S/N:</b> 0Y1404300885.A3L	<b>Test Dates:</b> 4/11 - 5/8/2014	<b>EUT Type:</b> Portable Tablet	Page 161 of 182	

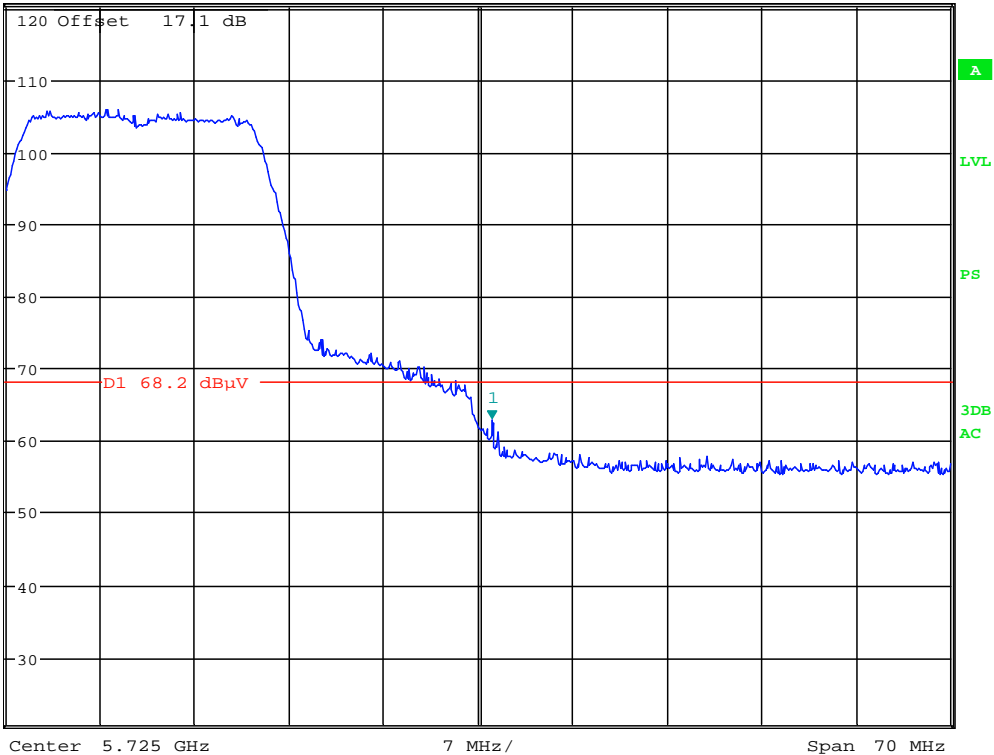
# Radiated Band Edge Measurements (20MHz BW)

§15.407(b.1)(b.2) §15.205 §15.209

Worst Case Mode: 802.11n (20MHz)  
 Worst Case Transfer Rate: MCS8  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 5700MHz  
 Channel: 140



**MARKER 1**  
 5.726009615 GHz  
 Ref 120.6 dBµV \*Att 10 dB SWT 20 ms  
 \*RBW 1 MHz \*VBW 3 MHz  
 Marker 1 [T1] 62.87 dBµV  
 5.726009615 GHz



Date: 18.APR.2014 17:44:12

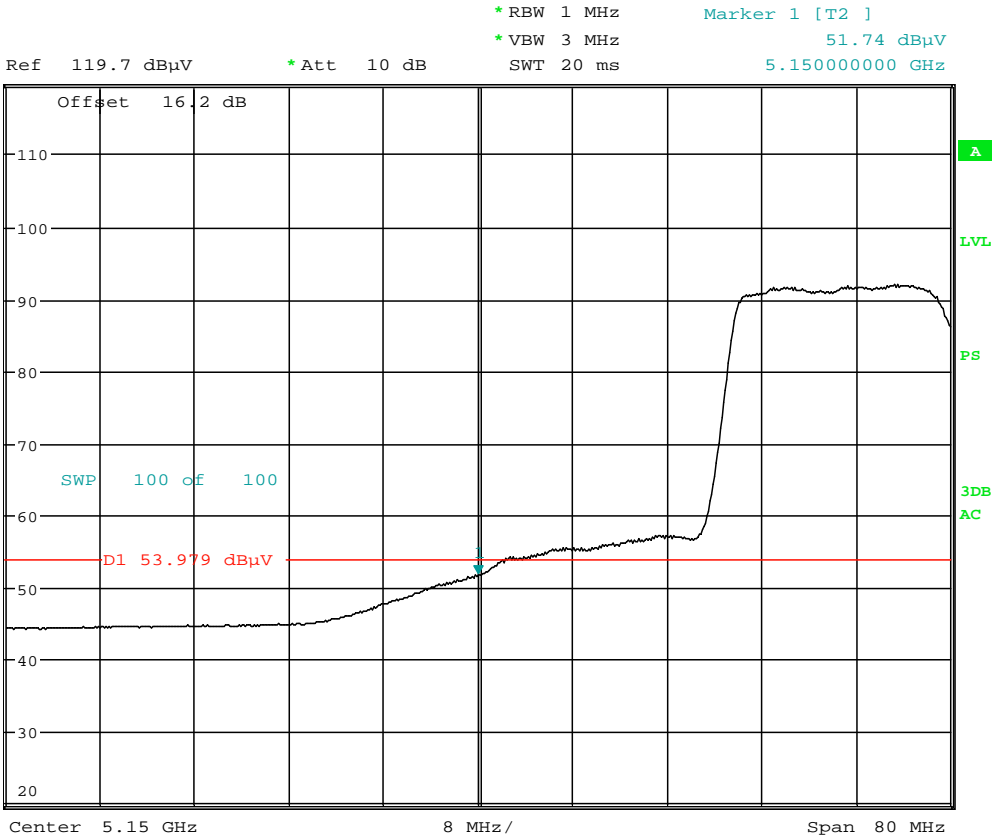
**Plot 6-179. Radiated Upper Band Edge Plot (Peak – UNII Band 2C)**

FCC ID: A3LSMT705M		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1404300885.A3L	Test Dates: 4/11 - 5/8/2014	EUT Type: Portable Tablet	Page 162 of 182	

## 6.15 MIMO Radiated Band Edge Measurements (40MHz BW)

§15.407(b.1)(b.2) §15.205 §15.209

Worst Case Mode: 802.11n (40MHz)  
 Worst Case Transfer Rate: MCS8  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 5190MHz  
 Channel: 38



Date: 23.APR.2014 11:29:39

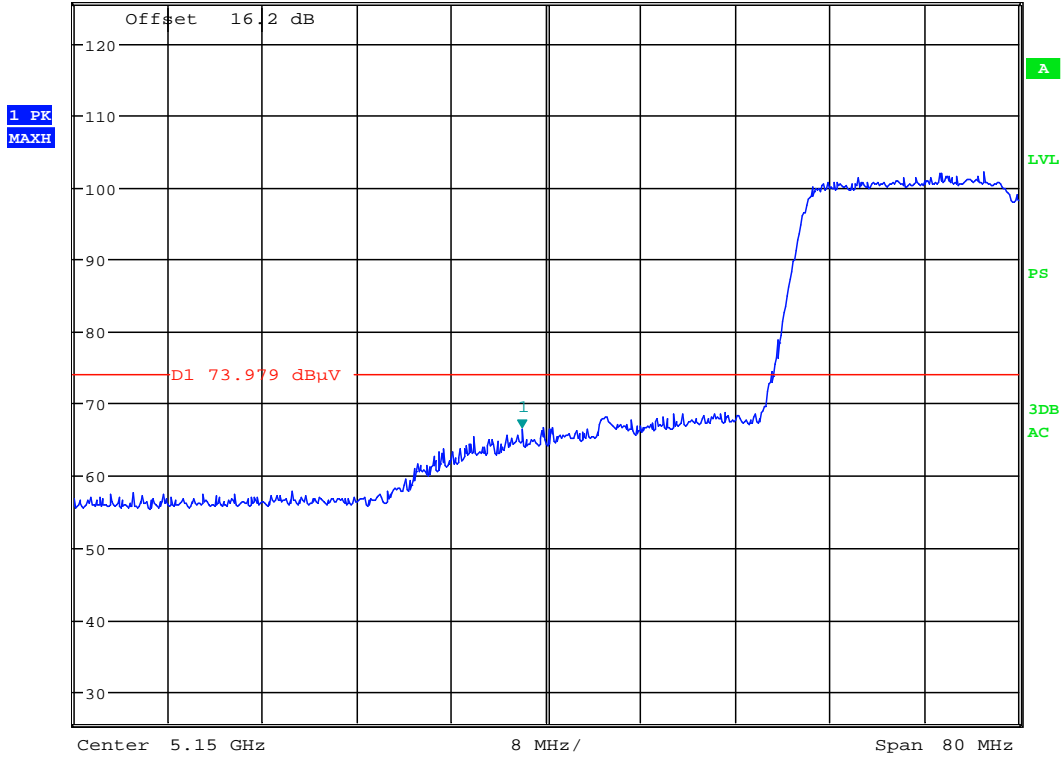
**Plot 6-180. Radiated Restricted Lower Band Edge Plot (Average – UNII Band 1)**

FCC ID: A3LSMT705M		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1404300885.A3L	Test Dates: 4/11 - 5/8/2014	EUT Type: Portable Tablet		Page 163 of 182

**Radiated Band Edge Measurements (40MHz BW)**  
**§15.407(b.1)(b.2) §15.205 §15.209**



<b>MARKER 1</b>		* RBW 1 MHz	Marker 1 [T1 ]
5.147948718 GHz		* VBW 3 MHz	66.38 dBµV
Ref 125.6 dBµV	* Att 10 dB	SWT 20 ms	5.147948718 GHz



Date: 21.APR.2014 14:20:25

**Plot 6-181. Radiated Restricted Lower Band Edge Plot (Peak – UNII Band 1)**

<b>FCC ID:</b> A3LSMT705M		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		<b>Reviewed by:</b> Quality Manager
<b>Test Report S/N:</b> 0Y1404300885.A3L	<b>Test Dates:</b> 4/11 - 5/8/2014	<b>EUT Type:</b> Portable Tablet	Page 164 of 182	

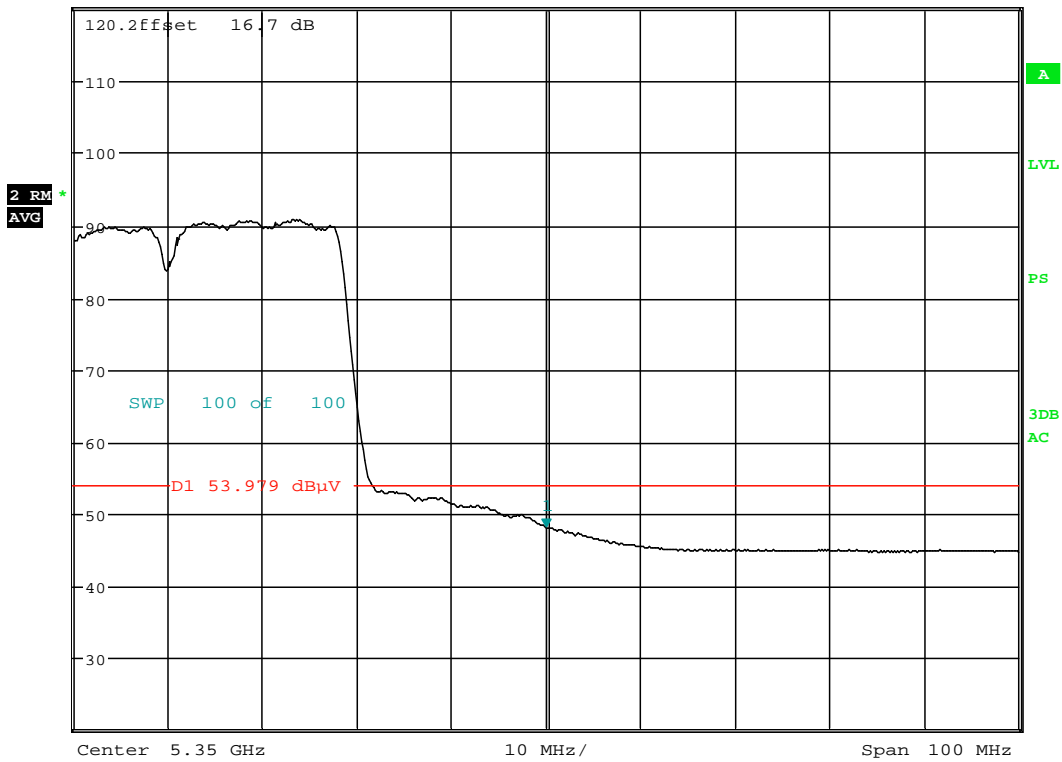
# Radiated Band Edge Measurements (40MHz BW)

§15.407(b.1)(b.2) §15.205 §15.209

Worst Case Mode: 802.11n (40MHz)  
 Worst Case Transfer Rate: MCS8  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 5310MHz  
 Channel: 62



Ref 120.2 dBµV      \* Att 10 dB      SWT 20 ms      Marker 1 [T2 ]      48.03 dBµV  
 \* RBW 1 MHz      \* VBW 3 MHz      5.350064103 GHz



Date: 23.APR.2014 12:13:16

**Plot 6-182. Radiated Restricted Upper Band Edge Plot (Average – UNII Band 2A)**

FCC ID: A3LSMT705M		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1404300885.A3L	Test Dates: 4/11 - 5/8/2014	EUT Type: Portable Tablet		Page 165 of 182

# Radiated Band Edge Measurements (40MHz BW)

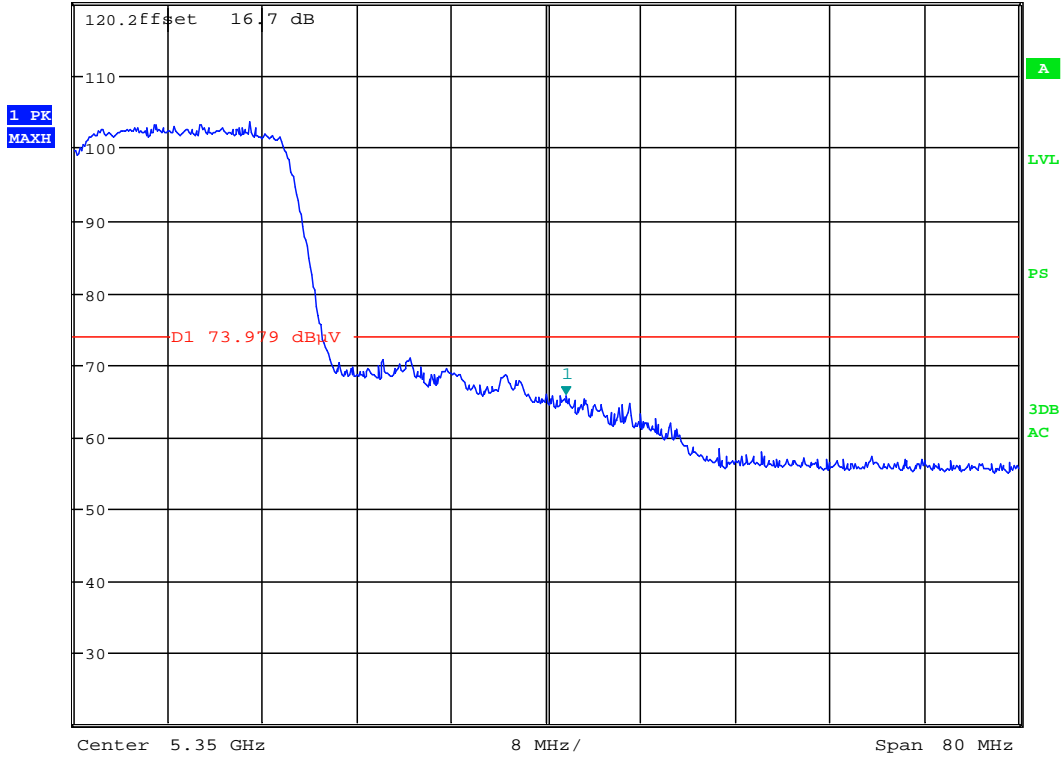
§15.407(b.1)(b.2) §15.205 §15.209



**MARKER 1**  
 5.351666667 GHz  
 Ref 120.2 dBµV \*Att 10 dB

\*RBW 1 MHz  
 \*VBW 3 MHz  
 SWT 20 ms

Marker 1 [T1 ]  
 65.73 dBµV  
 5.351666667 GHz



Date: 21.APR.2014 14:26:52

**Plot 6-183. Radiated Restricted Upper Band Edge Plot (Peak – UNII Band 2A)**

FCC ID: A3LSMT705M		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1404300885.A3L	Test Dates: 4/11 - 5/8/2014	EUT Type: Portable Tablet	Page 166 of 182	

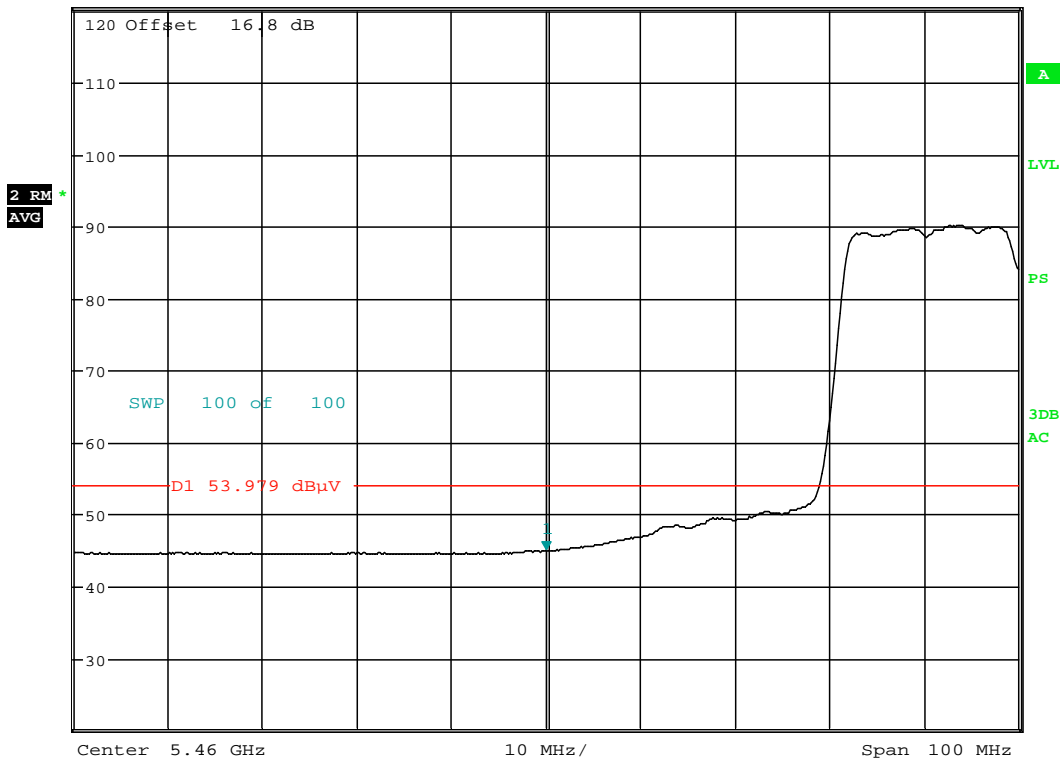
# Radiated Band Edge Measurements (40MHz BW)

\$15.407(b.1)(b.2) \$15.205 \$15.209

Worst Case Mode: 802.11n (40MHz)  
 Worst Case Transfer Rate: MCS8  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 5510MHz  
 Channel: 102



Ref 120.3 dBμV      \* Att 10 dB      SWT 20 ms      Marker 1 [T2] 44.91 dBμV  
 \* RBW 1 MHz      \* VBW 3 MHz      5.46000000 GHz



Date: 23.APR.2014 12:29:18

**Plot 6-184. Radiated Restricted Lower Band Edge Plot (Average – UNII Band 2C)**

FCC ID: A3LSMT705M		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1404300885.A3L	Test Dates: 4/11 - 5/8/2014	EUT Type: Portable Tablet	Page 167 of 182	

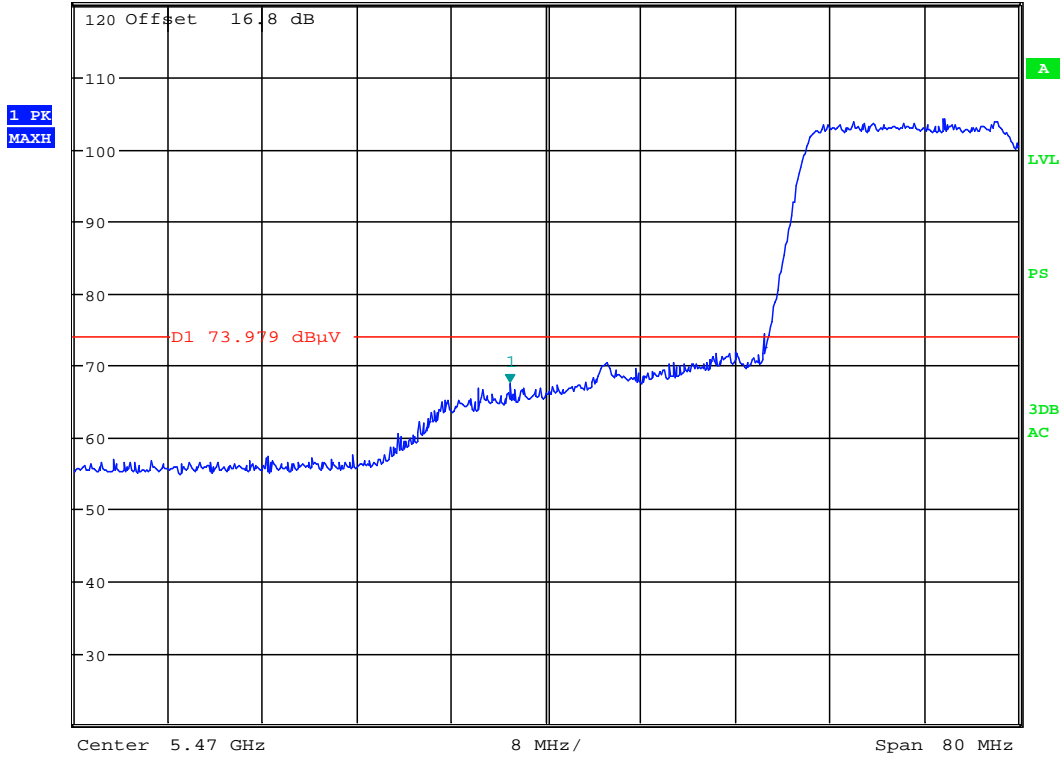
**Radiated Band Edge Measurements (40MHz BW)**  
**\$15.407(b.1)(b.2) \$15.205 \$15.209**



**MARKER 1**  
5.466923077 GHz  
Ref 120.3 dBµV \*Att 10 dB

\*RBW 1 MHz  
\*VBW 3 MHz  
SWT 20 ms

Marker 1 [T1 ]  
67.36 dBµV  
5.466923077 GHz



Date: 21.APR.2014 14:32:27

**Plot 6-185. Radiated Restricted Lower Band Edge Plot (Peak – UNII Band 2C)**

<b>FCC ID:</b> A3LSMT705M		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		<b>Reviewed by:</b> Quality Manager
<b>Test Report S/N:</b> 0Y1404300885.A3L	<b>Test Dates:</b> 4/11 - 5/8/2014	<b>EUT Type:</b> Portable Tablet	Page 168 of 182	

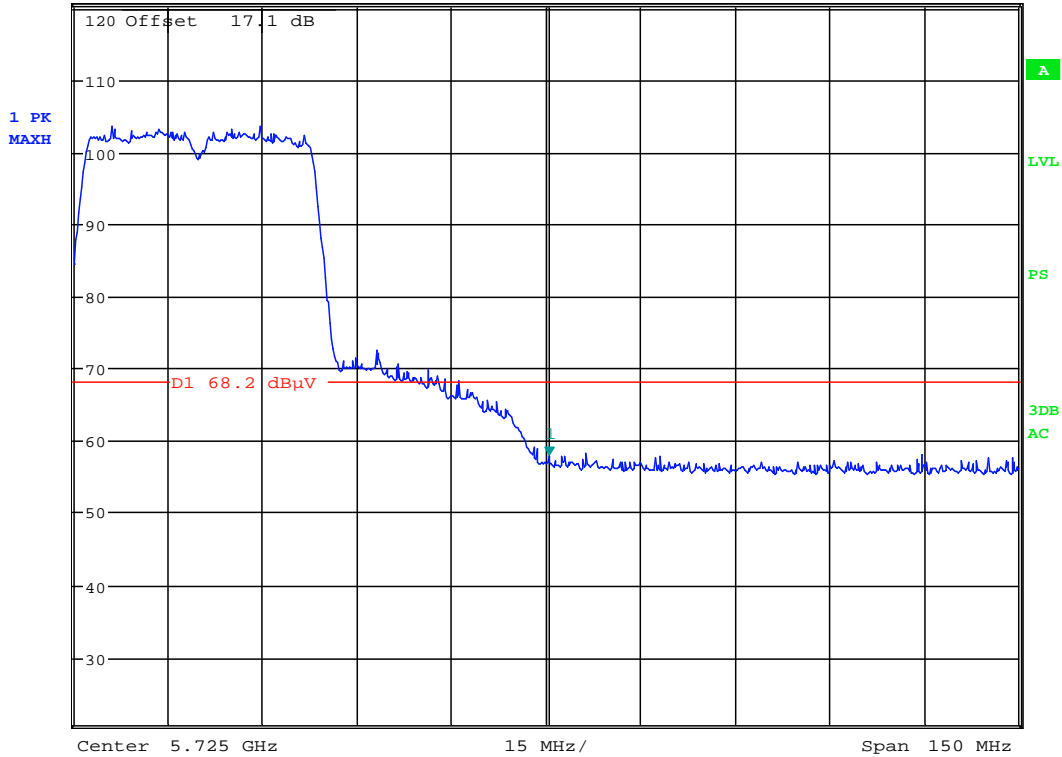
# Radiated Band Edge Measurements (40MHz BW)

§15.407(b.1)(b.2) §15.205 §15.209

Worst Case Mode: 802.11n (40MHz)  
 Worst Case Transfer Rate: MCS0  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 5670MHz  
 Channel: 134



<b>MARKER 1</b>		* RBW 1 MHz	Marker 1 [T1 ]
5.725400641 GHz		* VBW 3 MHz	57.94 dBµV
Ref 120.6 dBµV	* Att 10 dB	SWT 20 ms	5.725400641 GHz



Date: 21.APR.2014 14:37:49

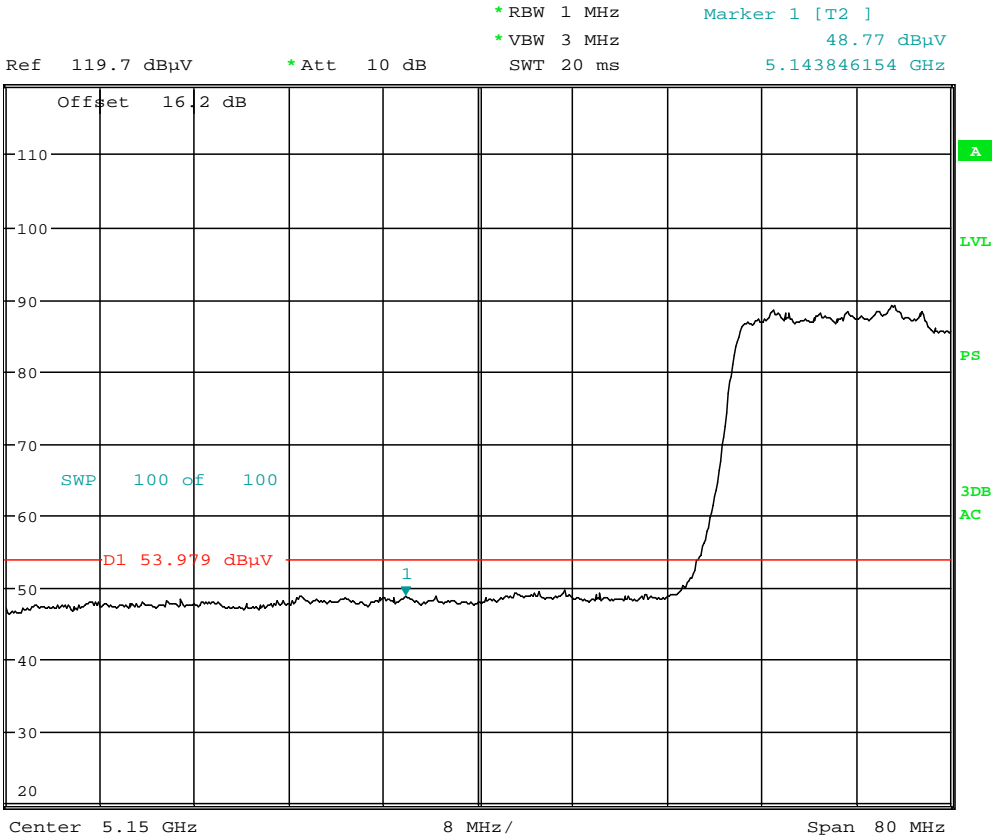
**Plot 6-186. Radiated Upper Band Edge Plot (Peak – UNII Band 2C)**

<b>FCC ID:</b> A3LSMT705M		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		<b>Reviewed by:</b> Quality Manager
<b>Test Report S/N:</b> 0Y1404300885.A3L	<b>Test Dates:</b> 4/11 - 5/8/2014	<b>EUT Type:</b> Portable Tablet	Page 169 of 182	

## 6.16 MIMO Radiated Band Edge Measurements (80MHz BW)

§15.407(b.1)(b.2) §15.205 §15.209

Worst Case Mode: 802.11ac (80MHz)  
 Worst Case Transfer Rate: MCS8  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 5210MHz  
 Channel: 42



Date: 23.APR.2014 12:34:07

**Plot 6-187. Radiated Restricted Lower Band Edge Plot (Average – UNII Band 1)**

FCC ID: A3LSMT705M		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1404300885.A3L	Test Dates: 4/11 - 5/8/2014	EUT Type: Portable Tablet	Page 170 of 182	

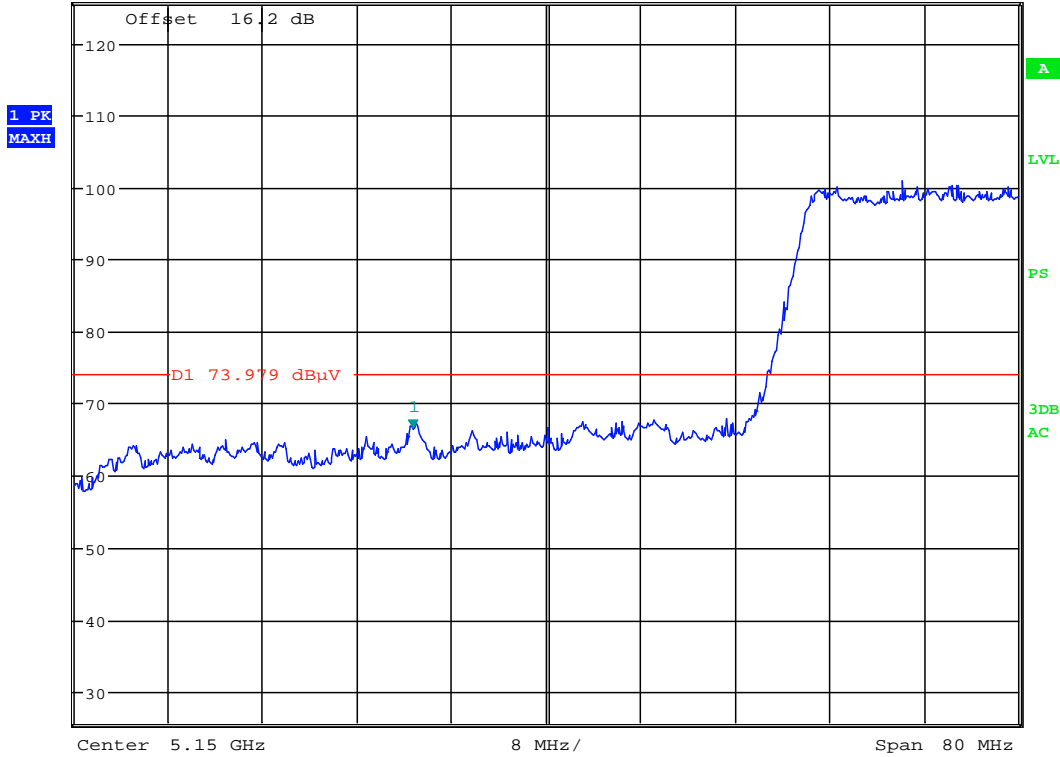
**Radiated Band Edge Measurements (80MHz BW)**  
**§15.407(b.1)(b.2) §15.205 §15.209**



**MARKER 1**  
5.138717949 GHz  
Ref 125.6 dBµV \*Att 10 dB

\*RBW 1 MHz  
\*VBW 3 MHz  
SWT 20 ms

Marker 1 [T1 ]  
66.56 dBµV  
5.138717949 GHz



Date: 21.APR.2014 15:16:36

**Plot 6-188. Radiated Restricted Lower Band Edge Plot (Peak – UNII Band 1)**

<b>FCC ID:</b> A3LSMT705M		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		<b>Reviewed by:</b> Quality Manager
<b>Test Report S/N:</b> 0Y1404300885.A3L	<b>Test Dates:</b> 4/11 - 5/8/2014	<b>EUT Type:</b> Portable Tablet	Page 171 of 182	

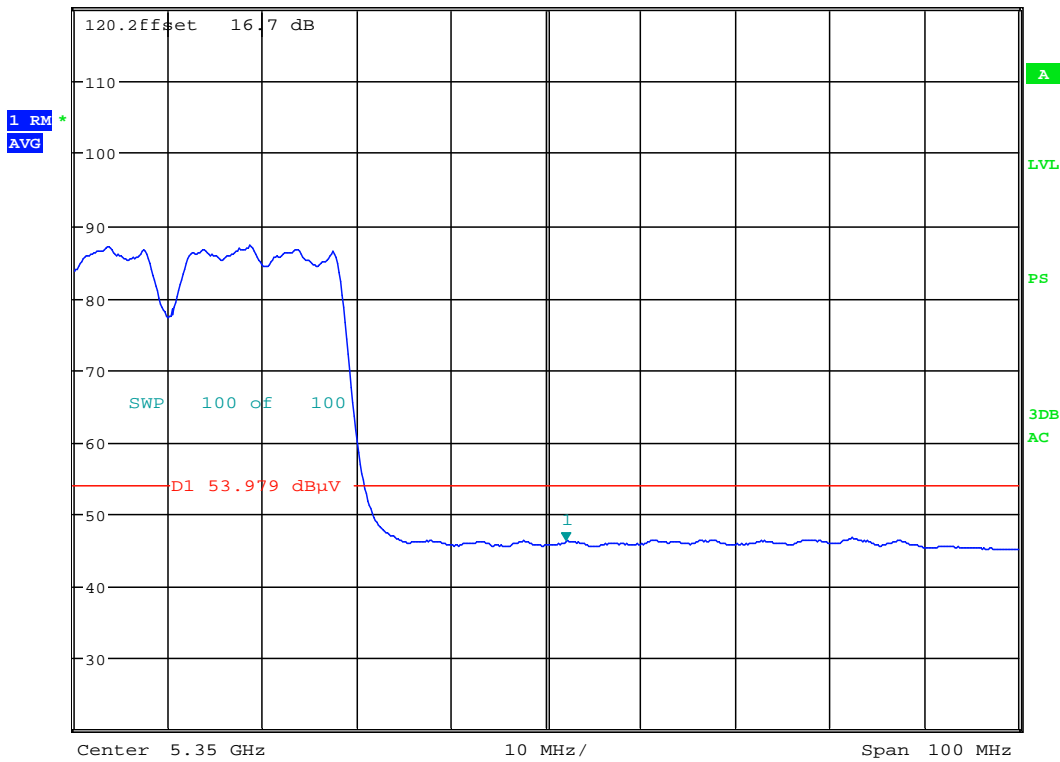
# Radiated Band Edge Measurements (80MHz BW)

\$15.407(b.1)(b.2) \$15.205 \$15.209

Worst Case Mode: 802.11ac (80MHz)  
 Worst Case Transfer Rate: MCS8  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 5290MHz  
 Channel: 58



**MARKER 1**  
 5.352083333 GHz  
 Ref 120.2 dBµV \* Att 10 dB SWT 20 ms  
 \* RBW 1 MHz \* VBW 3 MHz  
 Marker 1 [T1] 46.16 dBµV  
 5.352083333 GHz



Date: 23.APR.2014 12:49:50

**Plot 6-189. Radiated Restricted Upper Band Edge Plot (Average – UNII Band 2A)**

FCC ID: A3LSMT705M		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1404300885.A3L	Test Dates: 4/11 - 5/8/2014	EUT Type: Portable Tablet	Page 172 of 182	

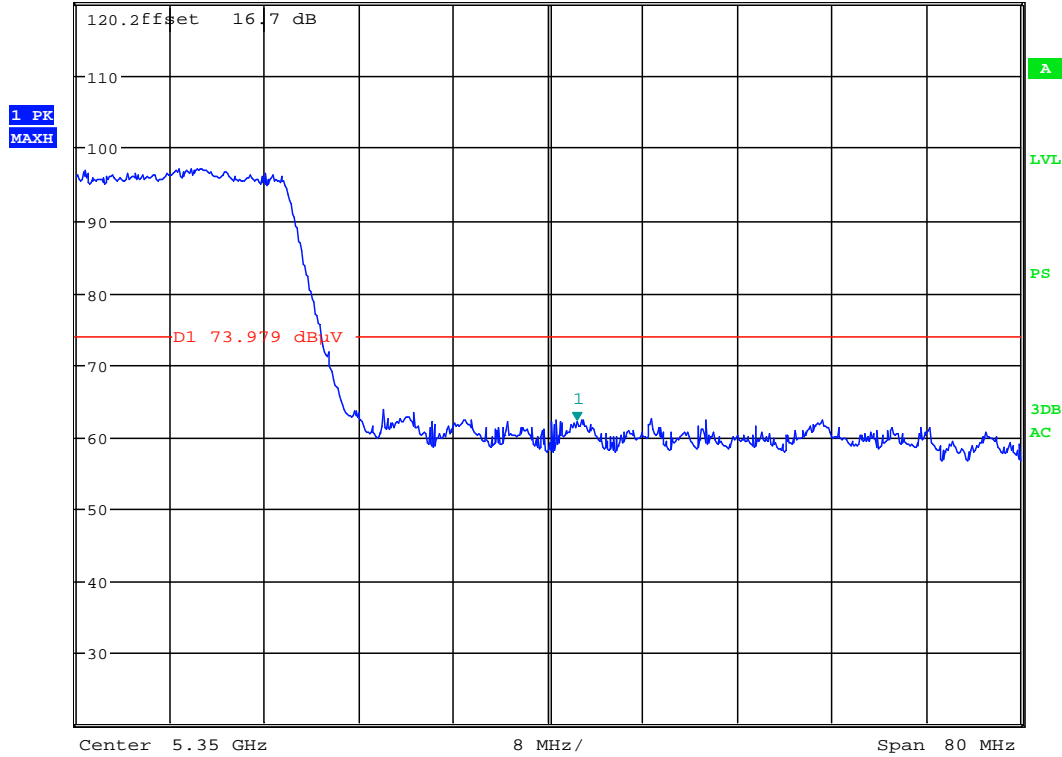
**Radiated Band Edge Measurements (80MHz BW)**  
**§15.407(b.1)(b.2) §15.205 §15.209**



**MARKER 1**  
5.352435897 GHz  
Ref 120.2 dBµV \*Att 10 dB

\*RBW 1 MHz  
\*VBW 3 MHz  
SWT 20 ms

Marker 1 [T1 ]  
62.11 dBµV  
5.352435897 GHz



Date: 23.APR.2014 12:50:13

**Plot 6-190. Radiated Restricted Upper Band Edge Plot (Peak – UNII Band 2A)**

<b>FCC ID:</b> A3LSMT705M		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		<b>Reviewed by:</b> Quality Manager
<b>Test Report S/N:</b> 0Y1404300885.A3L	<b>Test Dates:</b> 4/11 - 5/8/2014	<b>EUT Type:</b> Portable Tablet	Page 173 of 182	

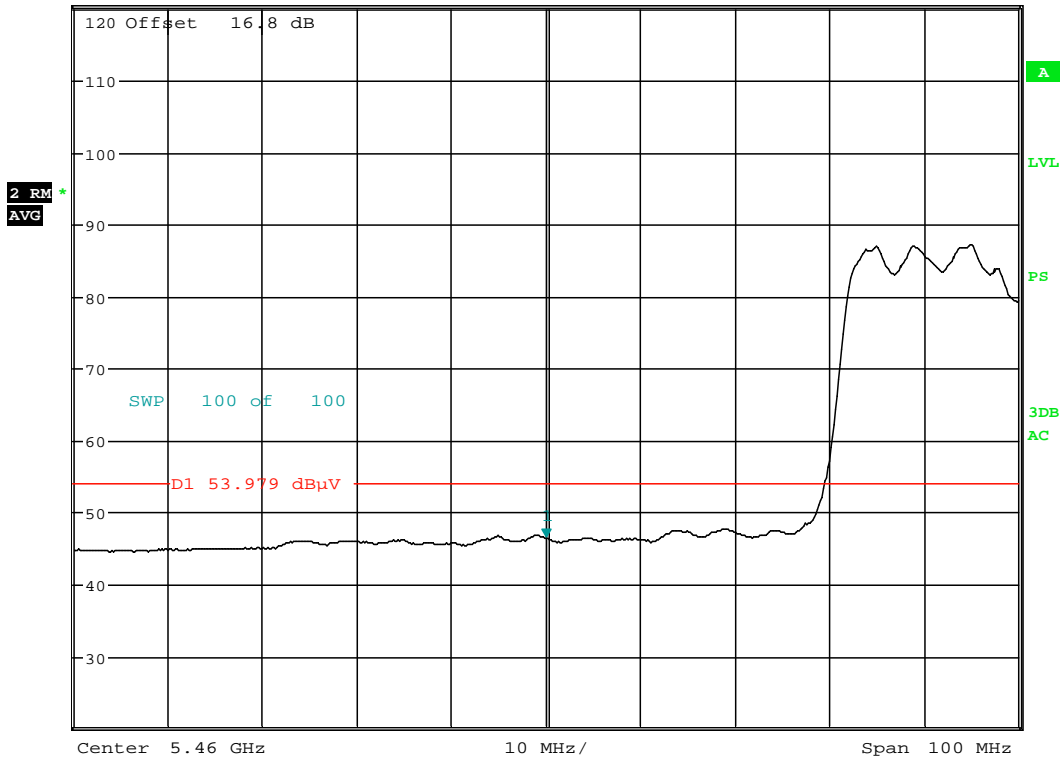
# Radiated Band Edge Measurements (80MHz BW)

\$15.407(b.1)(b.2) \$15.205 \$15.209

Worst Case Mode: 802.11ac (80MHz)  
 Worst Case Transfer Rate: MCS8  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 5530MHz  
 Channel: 106



**MARKER 1**  
 5.46 GHz  
 Ref 120.3 dBµV \* Att 10 dB SWT 20 ms  
 \* RBW 1 MHz \* VBW 3 MHz  
 Marker 1 [T2 ] 46.41 dBµV  
 5.460000000 GHz



Date: 21.APR.2014 15:21:46

**Plot 6-191. Radiated Restricted Lower Band Edge Plot (Average – UNII Band 2C)**

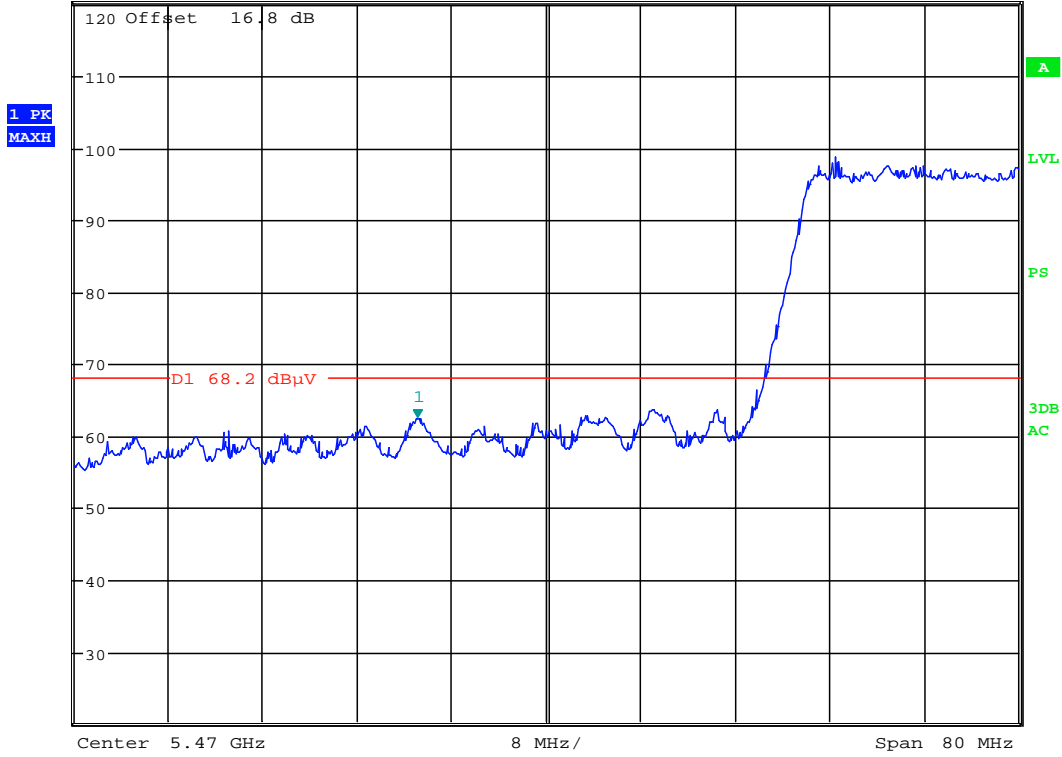
FCC ID: A3LSMT705M		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1404300885.A3L	Test Dates: 4/11 - 5/8/2014	EUT Type: Portable Tablet	Page 174 of 182	

# Radiated Band Edge Measurements (80MHz BW)

§15.407(b.1)(b.2) §15.205 §15.209



**MARKER 1**  
 5.459102564 GHz  
 Ref 120.3 dBµV \* Att 10 dB SWT 20 ms  
 \* RBW 1 MHz Marker 1 [T1] 62.37 dBµV  
 \* VBW 3 MHz 5.459102564 GHz



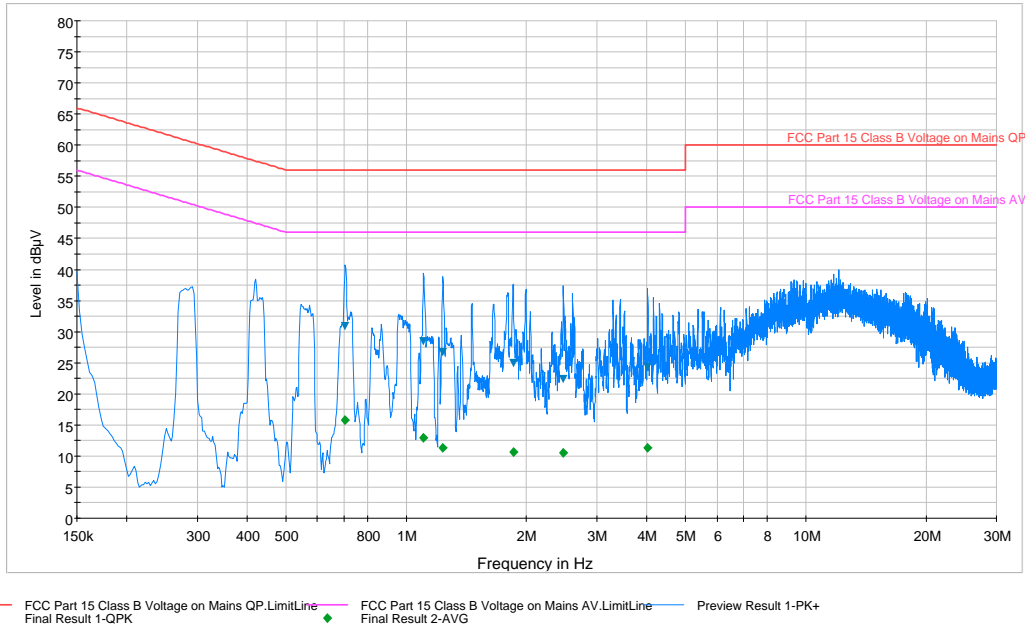
Date: 21.APR.2014 15:22:03

**Plot 6-192. Radiated Restricted Lower Band Edge Plot (Peak – UNII Band 2C)**

<b>FCC ID:</b> A3LSMT705M		<b>FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)</b>		<b>Reviewed by:</b> Quality Manager
<b>Test Report S/N:</b> 0Y1404300885.A3L	<b>Test Dates:</b> 4/11 - 5/8/2014	<b>EUT Type:</b> Portable Tablet	Page 175 of 182	

## 6.17 Line-Conducted Test Data

### \$15.407



**Plot 6-193. 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
0.704	L1	0.1	30.90	56.00	25.10	15.80	46.00	30.20
1.106	L1	0.1	28.50	56.00	27.50	12.90	46.00	33.10
1.237	L1	0.1	26.70	56.00	29.30	11.30	46.00	34.70
1.853	L1	0.1	25.00	56.00	31.00	10.70	46.00	35.30
2.474	L1	0.1	22.30	56.00	33.70	10.50	46.00	35.50
4.022	L1	0.2	24.30	56.00	31.70	11.30	46.00	34.70

**Table 6-54. Line Conducted Data with 802.11a UNII Band 1 (L1)**

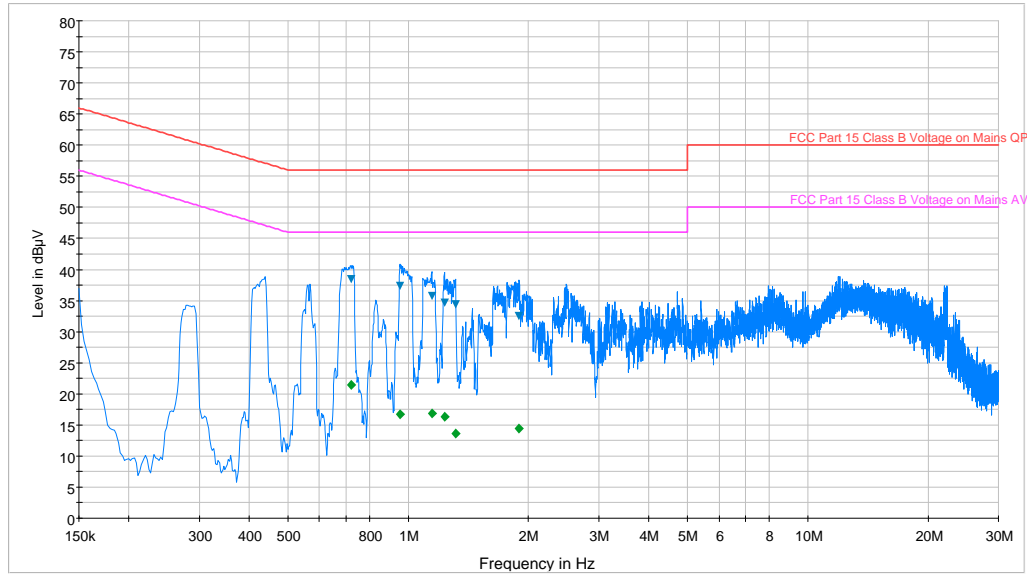
**Notes:**

- 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/AVLimit (dBµV) - QP/AV Level (dBµV)
- Traces shown in plot are made using a peak detector.
- Deviations to the Specifications: None.

FCC ID: A3LSMT705M		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1404300885.A3L	Test Dates: 4/11 - 5/8/2014	EUT Type: Portable Tablet		Page 176 of 182

# Line-Conducted Test Data

## \$15.407



— FCC Part 15 Class B Voltage on Mains QP.LimitLine 
 — FCC Part 15 Class B Voltage on Mains AV.LimitLine 
 — Preview Result 1-PK+  
▼ Final Result 1-QPK 
 ◆ Final Result 2-AVG

**Plot 6-194. Line Conducted Plot with 802.11a UNII Band 1 (N)**

Frequency	Line	Corr.	QuasiPeak	Limit	Margin	Average	Limit	Margin
MHz		dB	dBµV	dBµV	dB	dBµV	dBµV	dB
0.719	N	0.1	38.50	56.00	17.50	21.40	46.00	24.60
0.953	N	0.1	37.40	56.00	18.60	16.70	46.00	29.30
1.147	N	0.1	35.80	56.00	20.20	16.90	46.00	29.10
1.232	N	0.1	34.70	56.00	21.30	16.30	46.00	29.70
1.313	N	0.1	34.40	56.00	21.60	13.60	46.00	32.40
1.896	N	0.2	32.40	56.00	23.60	14.40	46.00	31.60

**Table 6-55. Line Conducted Data with 802.11a UNII Band 1 (N)**

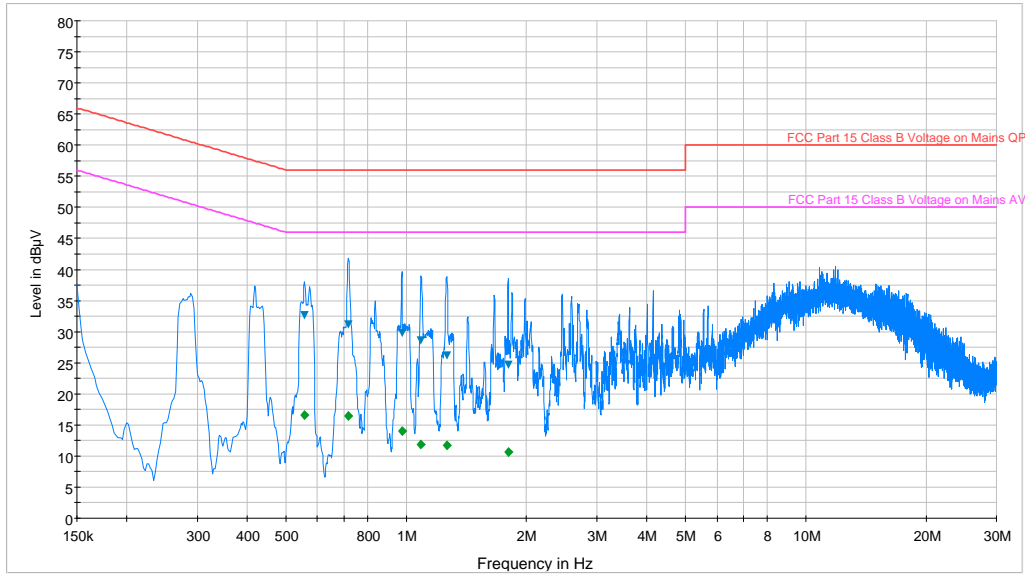
**Notes:**

- 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 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/AVLimit (dBµV) - QP/AV Level (dBµV)
- Traces shown in plot are made using a peak detector.
- Deviations to the Specifications: None.

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# Line-Conducted Test Data

## \$15.407



— FCC Part 15 Class B Voltage on Mains QP.LimitLine — FCC Part 15 Class B Voltage on Mains AV.LimitLine — Preview Result 1-PK+  
▼ Final Result 1-QPK ◆ Final Result 2-AVG

**Plot 6-195. Line Conducted Plot with 802.11a UNII Band 2A (L1)**

Frequency	Line	Corr.	QuasiPeak	Limit	Margin	Average	Limit	Margin
MHz		dB	dBµV	dBµV	dB	dBµV	dBµV	dB
0.557	L1	0.1	32.60	56.00	23.40	16.60	46.00	29.40
0.717	L1	0.1	31.20	56.00	24.80	16.50	46.00	29.50
0.976	L1	0.1	29.80	56.00	26.20	14.10	46.00	31.90
1.091	L1	0.1	28.60	56.00	27.40	11.90	46.00	34.10
1.264	L1	0.1	26.20	56.00	29.80	11.70	46.00	34.30
1.799	L1	0.1	24.70	56.00	31.30	10.70	46.00	35.30

**Table 6-56. Line Conducted Data with 802.11a UNII Band 2A (L1)**

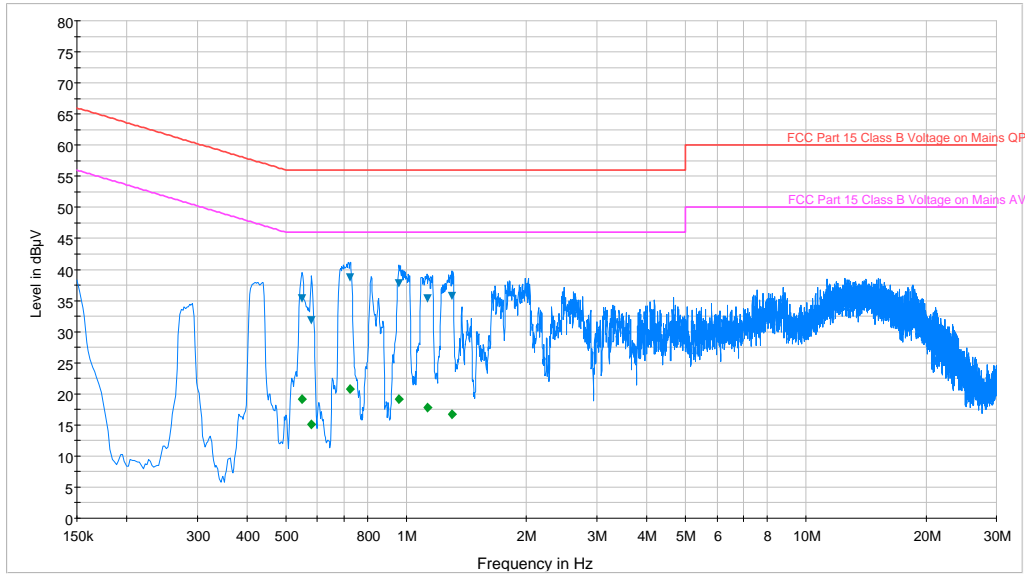
**Notes:**

- 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.

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# Line-Conducted Test Data

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— FCC Part 15 Class B Voltage on Mains QP.LimitLine 
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 — Preview Result 1-PK+  
▼ Final Result 1-QPK 
 ◆ Final Result 2-AVG

**Plot 6-196. Line Conducted Plot with 802.11a UNII Band 2A (N)**

Frequency MHz	Line	Corr. dB	QuasiPeak dBµV	Limit dBµV	Margin dB	Average dBµV	Limit dBµV	Margin dB
0.548	N	0.1	35.30	56.00	20.70	19.10	46.00	26.90
0.580	N	0.1	31.80	56.00	24.20	15.10	46.00	30.90
0.724	N	0.1	38.70	56.00	17.30	20.70	46.00	25.30
0.960	N	0.1	37.70	56.00	18.30	19.10	46.00	26.90
1.129	N	0.1	35.30	56.00	20.70	17.80	46.00	28.20
1.300	N	0.1	35.80	56.00	20.20	16.80	46.00	29.20

**Table 6-57. Line Conducted Data with 802.11a UNII Band 2A (N)**

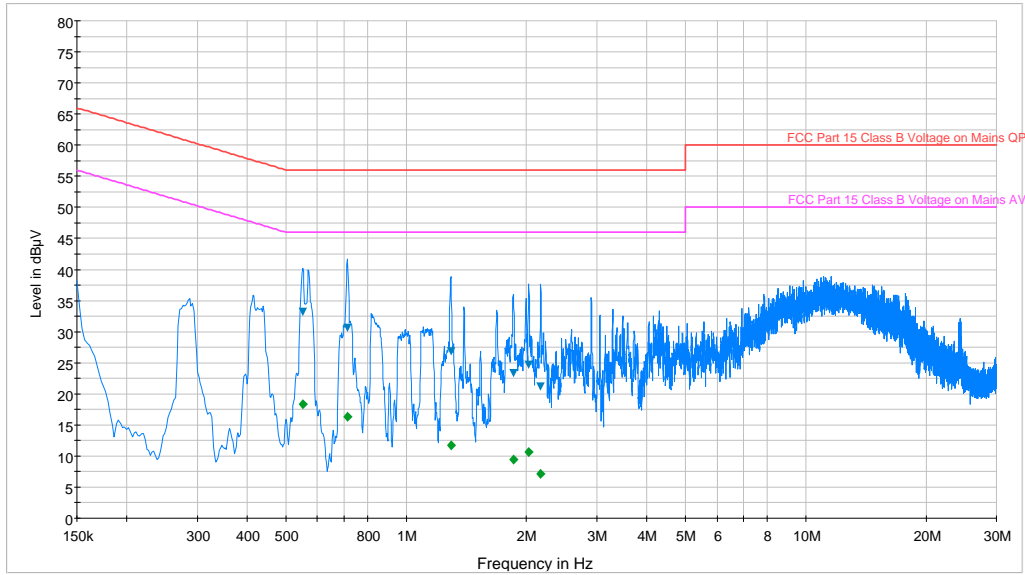
**Notes:**

- 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 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.

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# Line-Conducted Test Data

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▼ Final Result 1-QPK ◆ Final Result 2-AVG

**Plot 6-197. Line Conducted Plot with 802.11a UNII Band 2C (L1)**

Frequency	Line	Corr.	QuasiPeak	Limit	Margin	Average	Limit	Margin
MHz		dB	dBµV	dBµV	dB	dBµV	dBµV	dB
0.551	L1	0.1	33.20	56.00	22.80	18.30	46.00	27.70
0.713	L1	0.1	30.60	56.00	25.40	16.30	46.00	29.70
1.293	L1	0.1	26.90	56.00	29.10	11.70	46.00	34.30
1.853	L1	0.1	23.30	56.00	32.70	9.40	46.00	36.60
2.027	L1	0.1	24.70	56.00	31.30	10.70	46.00	35.30
2.173	L1	0.1	21.20	56.00	34.80	7.20	46.00	38.80

**Table 6-58. Line Conducted Plot with 802.11a UNII Band 2C (L1)**

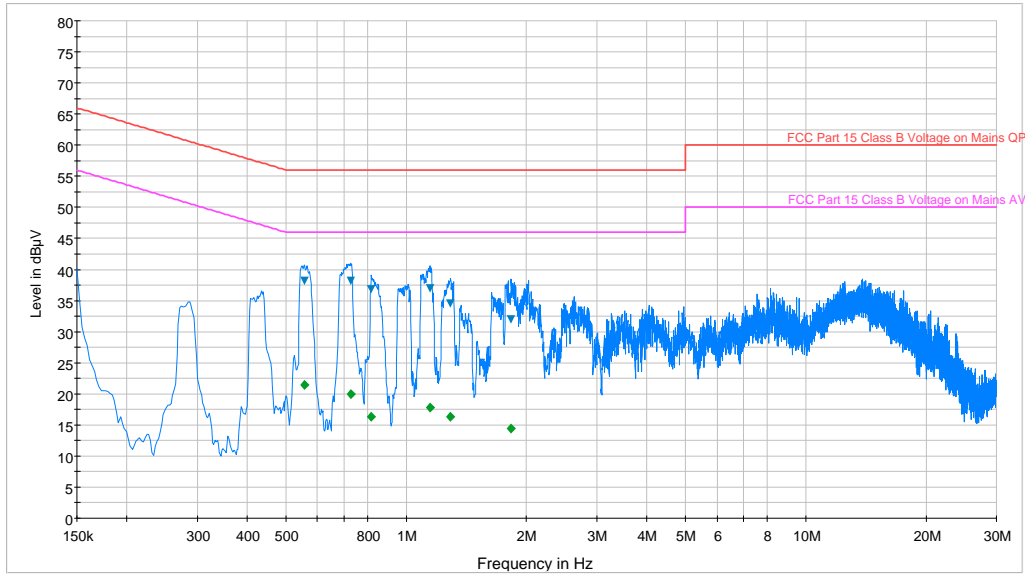
**Notes:**

- 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.

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# Line-Conducted Test Data

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— FCC Part 15 Class B Voltage on Mains QP.LimitLine — FCC Part 15 Class B Voltage on Mains AV.LimitLine — Preview Result 1-PK+  
▼ Final Result 1-QPK ◆ Final Result 2-AVG

**Plot 6-198. Line Conducted Plot with 802.11a UNII Band 2C (N)**

Frequency	Line	Corr.	QuasiPeak	Limit	Margin	Average	Limit	Margin
MHz		dB	dBµV	dBµV	dB	dBµV	dBµV	dB
0.557	N	0.1	38.20	56.00	17.80	21.40	46.00	24.60
0.726	N	0.1	38.10	56.00	17.90	20.00	46.00	26.00
0.818	N	0.1	36.80	56.00	19.20	16.30	46.00	29.70
1.147	N	0.1	36.90	56.00	19.10	17.80	46.00	28.20
1.291	N	0.1	34.50	56.00	21.50	16.40	46.00	29.60
1.831	N	0.2	32.00	56.00	24.00	14.40	46.00	31.60

**Table 6-59. Line Conducted Data with 802.11a UNII Band 2C (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.

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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: A3LSMT705M** is in compliance with Part 15E of the FCC Rules.

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