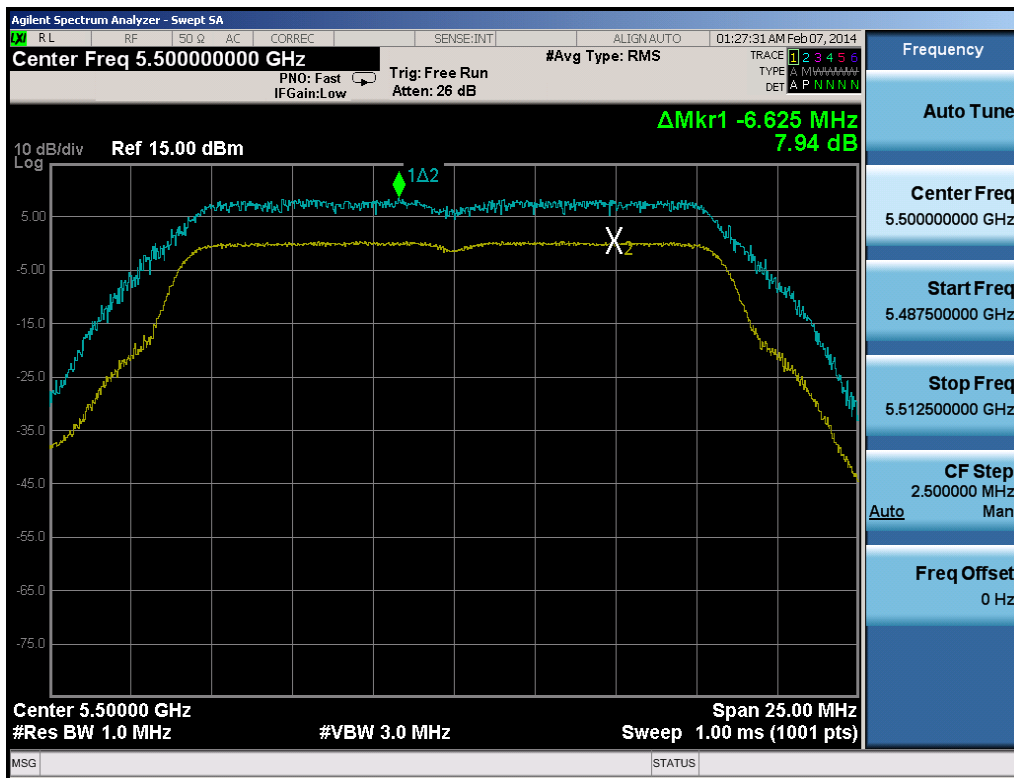


## Antenna 2 Peak Excursion Ratio

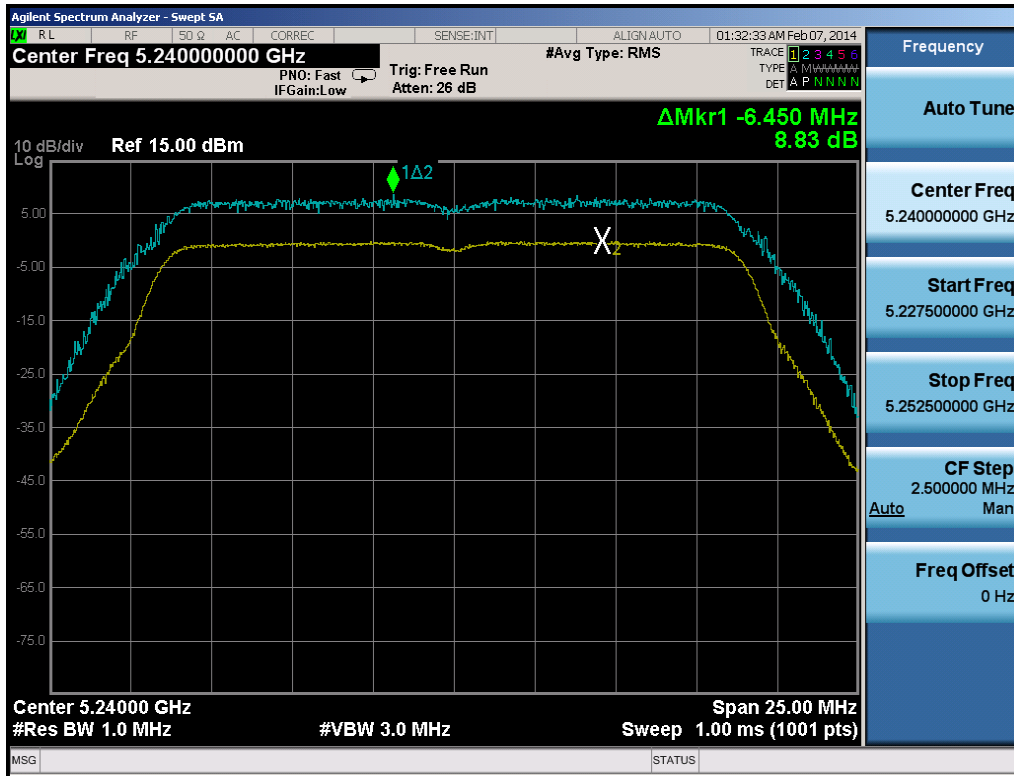
Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Measured Peak Excursion Ratio [dBm]	Max Permissible Peak Excursion Ratio [dBm/MHz]	Margin [dB]
5500	100	a	6	7.94	13.0	-5.06
5240	48	n (20MHz)	6.5/7.2 (MCS0)	8.83	13.0	-4.17
5190	38	n (40MHz)	13.5/15 (MCS0)	8.93	13.0	-4.07
5210	42	ac (80MHz)	29.3/32.5 (MCS0)	8.35	13.0	-4.65

Table 6-28. Conducted Peak Excursion Ratio Measurements

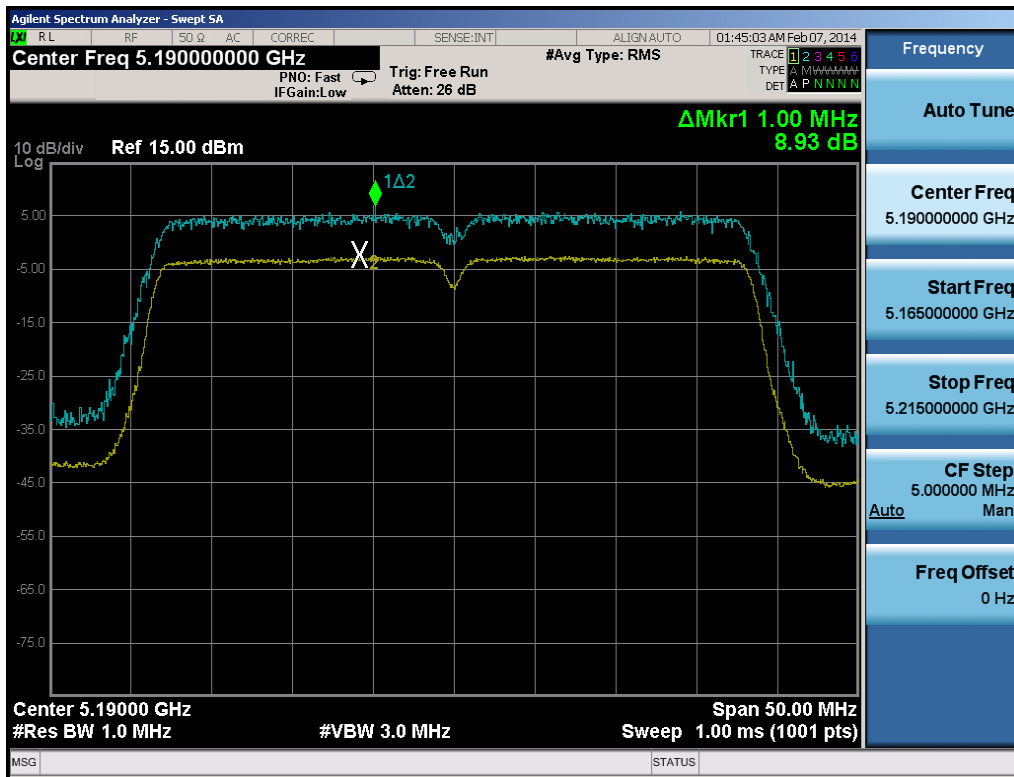


Plot 6-130. Peak Excursion Ratio Plot (802.11a)

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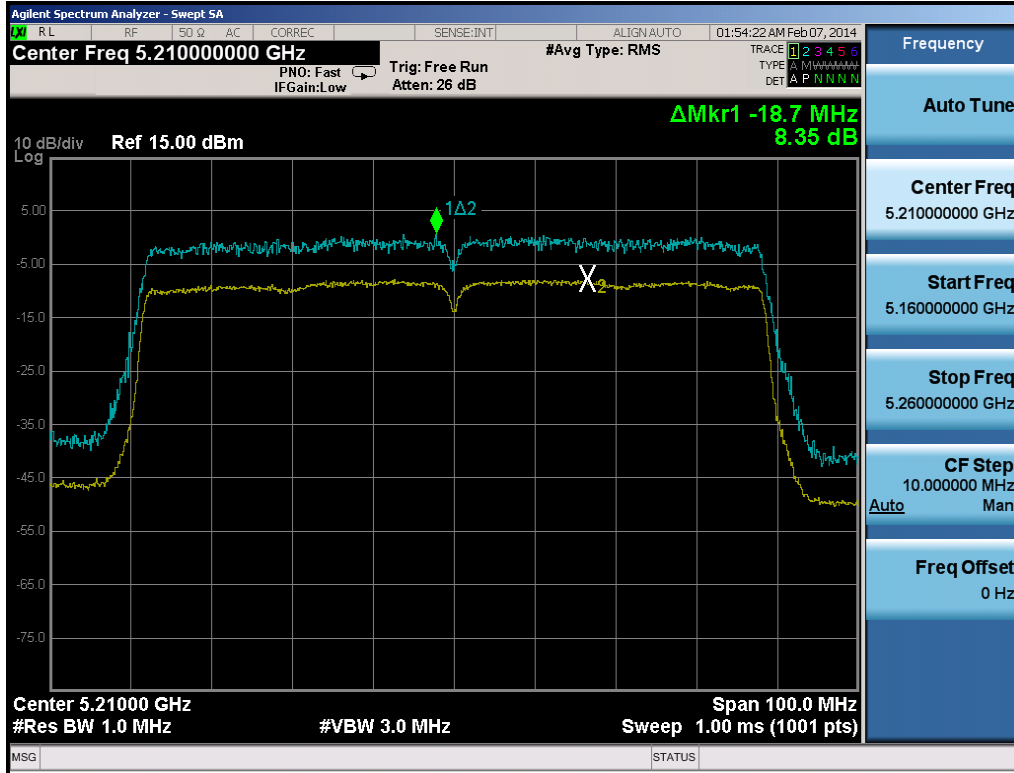


Plot 6-131. Peak Excursion Ratio Plot (20MHz BW 802.11n)





Plot 6-132. Peak Excursion Ratio Plot (40MHz BW 802.11n)

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Plot 6-133. Peak Excursion Ratio Plot (80MHz BW 802.11ac)

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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: 3.8 VDC

VOLTAGE (%)	POWER (VDC)	TEMP (° C)	FREQUENCY (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.80	+ 20 (Ref)	5,179,999,983	-17	-0.00000033
100 %		- 30	5,180,000,003	3	0.00000006
100 %		- 20	5,179,999,991	-9	-0.00000017
100 %		- 10	5,180,000,010	10	0.00000019
100 %		0	5,179,999,994	-6	-0.00000012
100 %		+ 10	5,180,000,008	8	0.00000015
100 %		+ 20	5,179,999,999	-1	-0.00000002
100 %		+ 30	5,180,000,019	19	0.00000037
100 %		+ 40	5,179,999,996	-4	-0.00000008
100 %		+ 50	5,179,999,985	-15	-0.00000029
115 %	4.37	+ 20	5,179,999,985	-15	-0.00000029
BATT. ENDPOINT	3.40	+ 20	5,179,999,993	-7	-0.00000014

**Table 6-29. 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 (Cont'd)

### §15.407(g)

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



OPERATING FREQUENCY: 5,260,000,000 Hz  
 CHANNEL: 52  
 REFERENCE VOLTAGE: 3.8 VDC

VOLTAGE (%)	POWER (VDC)	TEMP (° C)	FREQUENCY (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.80	+ 20 (Ref)	5,260,000,008	8	0.00000015
100 %		- 30	5,259,999,984	-16	-0.00000030
100 %		- 20	5,259,999,981	-19	-0.00000036
100 %		- 10	5,260,000,018	18	0.00000034
100 %		0	5,259,999,988	-12	-0.00000023
100 %		+ 10	5,259,999,986	-14	-0.00000027
100 %		+ 20	5,259,999,985	-15	-0.00000029
100 %		+ 30	5,259,999,995	-5	-0.00000010
100 %		+ 40	5,260,000,001	1	0.00000002
100 %		+ 50	5,259,999,986	-14	-0.00000027
115 %	4.37	+ 20	5,260,000,014	14	0.00000027
BATT. ENDPOINT	3.40	+ 20	5,259,999,989	-11	-0.00000021

**Table 6-30. 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 (Cont'd)

### §15.407(g)

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



OPERATING FREQUENCY: 5,500,000,000 Hz  
 CHANNEL: 100  
 REFERENCE VOLTAGE: 3.8 VDC

VOLTAGE (%)	POWER (VDC)	TEMP (° C)	FREQUENCY (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.80	+ 20 (Ref)	5,500,000,003	3	0.00000005
100 %		- 30	5,499,999,990	-10	-0.00000018
100 %		- 20	5,500,000,000	0	0.00000000
100 %		- 10	5,500,000,005	5	0.00000009
100 %		0	5,499,999,998	-2	-0.00000004
100 %		+ 10	5,500,000,011	11	0.00000020
100 %		+ 20	5,499,999,989	-11	-0.00000020
100 %		+ 30	5,499,999,983	-17	-0.00000031
100 %		+ 40	5,500,000,019	19	0.00000035
100 %		+ 50	5,499,999,980	-20	-0.00000036
115 %		4.37	+ 20	5,499,999,985	-15
BATT. ENDPOINT	3.40	+ 20	5,499,999,998	-2	-0.00000004

**Table 6-31. 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), (6), §15.205, §15.209; RSS-210 [A9.2]

### 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), 802.11n (40MHz BW), and 802.11ac (80MHz 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 6-32 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 6-32. 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  $\geq 2 \times \text{span/RBW}$ )
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**

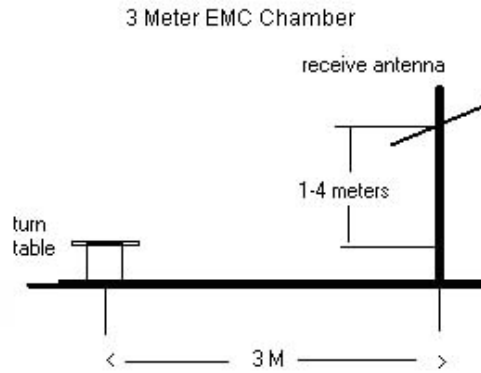
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

**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 6-32.
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. The NFC antenna is integrated into the standard battery and is the only battery available from the manufacturer for this device. All spurious emissions were investigated and the worst case emissions were found with the EUT powered by this 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.
8. Average levels at -135dBm and peak levels at -125dBm represent the analyzer noise floor and signify that no emission was detected.
9. Radiated spurious emissions were investigated while operating in MIMO mode and were found to be insignificant.

## Sample Calculations



### Determining Spurious Emissions Levels

- Field Strength Level [dB $\mu$ V/m] = Analyzer Level [dBm] + 107 + AFCL [dB/m]
- AFCL [dB/m] = Antenna Factor [dB/m] + Cable Loss [dB]
- Margin [dB] = Field Strength Level [dB $\mu$ V/m] – 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	Pol. [H/V]	AFCL [dB/m]	Field Strength [dB $\mu$ V/m]	Limit [dB $\mu$ V/m]	Margin [dB]
10360.00	-125.00	Peak	V	46.40	28.40	68.20	-39.80
15540.00	-135.00	Average	V	51.18	23.18	53.98	-30.80
15540.00	-125.00	Peak	V	51.18	33.18	73.98	-40.80
20720.00	-135.00	Average	V	44.00	16.00	53.98	-37.98
20720.00	-125.00	Peak	V	44.00	26.00	73.98	-47.98
25900.00	-125.00	Peak	V	44.87	26.87	68.20	-41.33

**Table 6-33. 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	Pol. [H/V]	AFCL [dB/m]	Field Strength [dB $\mu$ V/m]	Limit [dB $\mu$ V/m]	Margin [dB]
10400.00	-125.00	Peak	V	46.61	28.61	68.20	-39.59
15600.00	-135.00	Average	V	51.15	23.15	53.98	-30.83
15600.00	-125.00	Peak	V	51.15	33.15	73.98	-40.83
20800.00	-135.00	Average	V	43.99	15.99	53.98	-37.99
20800.00	-125.00	Peak	V	43.99	25.99	73.98	-47.99
26000.00	-125.00	Peak	V	44.97	26.97	68.20	-41.23

**Table 6-34. Radiated Measurements**

FCC ID: A3LSMG900S		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
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**Radiated Spurious Emission Measurements (Cont'd)**  
**§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]**

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



Frequency [MHz]	Analyzer Level [dBm]	Detector	Pol. [H/V]	AFCL [dB/m]	Field Strength [dB $\mu$ V/m]	Limit [dB $\mu$ V/m]	Margin [dB]
10480.00	-125.00	Peak	V	46.61	28.61	68.20	-39.59
15720.00	-135.00	Average	V	51.36	23.36	53.98	-30.62
15720.00	-125.00	Peak	V	51.36	33.36	73.98	-40.62
20960.00	-135.00	Average	V	43.90	15.90	53.98	-38.08
20960.00	-125.00	Peak	V	43.90	25.90	73.98	-48.08
26200.00	-125.00	Peak	V	44.76	26.76	68.20	-41.44

**Table 6-35. 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	Pol. [H/V]	AFCL [dB/m]	Field Strength [dB $\mu$ V/m]	Limit [dB $\mu$ V/m]	Margin [dB]
10520.00	-125.00	Peak	V	46.67	28.67	68.20	-39.53
15780.00	-135.00	Average	V	51.47	23.47	53.98	-30.51
15780.00	-125.00	Peak	V	51.47	33.47	73.98	-40.51
21040.00	-135.00	Average	V	43.84	15.84	53.98	-38.14
21040.00	-125.00	Peak	V	43.84	25.84	73.98	-48.14
26300.00	-125.00	Peak	V	44.78	26.78	68.20	-41.42

**Table 6-36. Radiated Measurements**

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**Radiated Spurious Emission Measurements (Cont'd)**  
**§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]**

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



Frequency [MHz]	Analyzer Level [dBm]	Detector	Pol. [H/V]	AFCL [dB/m]	Field Strength [dB $\mu$ V/m]	Limit [dB $\mu$ V/m]	Margin [dB]
10560.00	-125.00	Peak	V	46.80	28.80	68.20	-39.40
15840.00	-135.00	Average	V	51.41	23.41	53.98	-30.57
15840.00	-125.00	Peak	V	51.41	33.41	73.98	-40.57
21120.00	-135.00	Average	V	43.74	15.74	53.98	-38.24
21120.00	-125.00	Peak	V	43.74	25.74	73.98	-48.24
26400.00	-125.00	Peak	V	44.72	26.72	68.20	-41.48

**Table 6-37. 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	Pol. [H/V]	AFCL [dB/m]	Field Strength [dB $\mu$ V/m]	Limit [dB $\mu$ V/m]	Margin [dB]
10640.00	-135.00	Average	V	46.91	18.91	53.98	-35.07
10640.00	-125.00	Peak	V	46.91	28.91	73.98	-45.07
15960.00	-135.00	Average	V	51.56	23.56	53.98	-30.42
15960.00	-125.00	Peak	V	51.56	33.56	73.98	-40.42
21280.00	-135.00	Average	V	43.64	15.64	53.98	-38.34
21280.00	-125.00	Peak	V	43.64	25.64	73.98	-48.34
26600.00	-125.00	Peak	V	47.28	29.28	68.20	-38.92

**Table 6-38. Radiated Measurements**

FCC ID: A3LSMG900S		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
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**Radiated Spurious Emission Measurements (Cont'd)**  
**§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]**

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

Frequency [MHz]	Analyzer Level [dBm]	Detector	Pol. [H/V]	AFCL [dB/m]	Field Strength [dB $\mu$ V/m]	Limit [dB $\mu$ V/m]	Margin [dB]
11000.00	-135.00	Average	V	46.89	18.89	53.98	-35.09
11000.00	-125.00	Peak	V	46.89	28.89	73.98	-45.09
16500.00	-125.00	Peak	V	52.90	34.90	68.20	-33.30
22000.00	-125.00	Peak	V	44.65	26.65	68.20	-41.55
27500.00	-125.00	Peak	V	48.51	30.51	68.20	-37.69

**Table 6-39. 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	Pol. [H/V]	AFCL [dB/m]	Field Strength [dB $\mu$ V/m]	Limit [dB $\mu$ V/m]	Margin [dB]
11160.00	-135.00	Average	V	47.05	19.05	53.98	-34.93
11160.00	-125.00	Peak	V	47.05	29.05	73.98	-44.93
16740.00	-125.00	Peak	V	53.06	35.06	68.20	-33.14
22320.00	-135.00	Average	V	43.93	15.93	53.98	-38.05
22320.00	-125.00	Peak	V	43.93	25.93	73.98	-48.05
27900.00	-125.00	Peak	V	48.13	30.13	68.20	-38.07



**Table 6-40. Radiated Measurements**

**Radiated Spurious Emission Measurements (Cont'd)**  
§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]

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

Frequency [MHz]	Analyzer Level [dBm]	Detector	Pol. [H/V]	AFCL [dB/m]	Field Strength [dB $\mu$ V/m]	Limit [dB $\mu$ V/m]	Margin [dB]
11400.00	-135.00	Average	V	47.26	19.26	53.98	-34.72
11400.00	-125.00	Peak	V	47.26	29.26	73.98	-44.72
17100.00	-125.00	Peak	V	52.93	34.93	68.20	-33.27
22800.00	-135.00	Average	V	43.39	15.39	53.98	-38.59
22800.00	-125.00	Peak	V	43.39	25.39	73.98	-48.59
28500.00	-125.00	Peak	V	48.03	30.03	68.20	-38.17

**Table 6-41. Radiated Measurements**

FCC ID: A3LSMG900S		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1402030290.A3L	Test Dates: 2/5 - 2/21/2014	EUT Type: Portable Handset	Page 106 of 181	

## 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	Pol. [H/V]	AFCL [dB/m]	Field Strength [dB $\mu$ V/m]	Limit [dB $\mu$ V/m]	Margin [dB]
10360.00	-125.00	Peak	H	46.40	28.40	68.20	-39.80
15540.00	-135.00	Average	H	51.18	23.18	53.98	-30.80
15540.00	-125.00	Peak	H	51.18	33.18	73.98	-40.80
20720.00	-135.00	Average	H	44.00	16.00	53.98	-37.98
20720.00	-125.00	Peak	H	44.00	26.00	73.98	-47.98
25900.00	-125.00	Peak	H	44.87	26.87	68.20	-41.33

**Table 6-42. 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	Pol. [H/V]	AFCL [dB/m]	Field Strength [dB $\mu$ V/m]	Limit [dB $\mu$ V/m]	Margin [dB]
10400.00	-125.00	Peak	H	46.61	28.61	68.20	-39.59
15600.00	-135.00	Average	H	51.15	23.15	53.98	-30.83
15600.00	-125.00	Peak	H	51.15	33.15	73.98	-40.83
20800.00	-135.00	Average	H	43.99	15.99	53.98	-37.99
20800.00	-125.00	Peak	H	43.99	25.99	73.98	-47.99
26000.00	-125.00	Peak	H	44.97	26.97	68.20	-41.23

**Table 6-43. Radiated Measurements**

FCC ID: A3LSMG900S		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1402030290.A3L	Test Dates: 2/5 - 2/21/2014	EUT Type: Portable Handset	Page 107 of 181	

**Radiated Spurious Emission Measurements (Cont'd)**  
**§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]**

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



Frequency [MHz]	Analyzer Level [dBm]	Detector	Pol. [H/V]	AFCL [dB/m]	Field Strength [dB $\mu$ V/m]	Limit [dB $\mu$ V/m]	Margin [dB]
10480.00	-125.00	Peak	H	46.61	28.61	68.20	-39.59
15720.00	-135.00	Average	H	51.36	23.36	53.98	-30.62
15720.00	-125.00	Peak	H	51.36	33.36	73.98	-40.62
20960.00	-135.00	Average	H	43.90	15.90	53.98	-38.08
20960.00	-125.00	Peak	H	43.90	25.90	73.98	-48.08
26200.00	-125.00	Peak	H	44.76	26.76	68.20	-41.44

**Table 6-44. 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	Pol. [H/V]	AFCL [dB/m]	Field Strength [dB $\mu$ V/m]	Limit [dB $\mu$ V/m]	Margin [dB]
10520.00	-125.00	Peak	H	46.67	28.67	68.20	-39.53
15780.00	-135.00	Average	H	51.47	23.47	53.98	-30.51
15780.00	-125.00	Peak	H	51.47	33.47	73.98	-40.51
21040.00	-135.00	Average	H	43.84	15.84	53.98	-38.14
21040.00	-125.00	Peak	H	43.84	25.84	73.98	-48.14
26300.00	-125.00	Peak	H	44.78	26.78	68.20	-41.42

**Table 6-45. Radiated Measurements**

FCC ID: A3LSMG900S		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1402030290.A3L	Test Dates: 2/5 - 2/21/2014	EUT Type: Portable Handset	Page 108 of 181	

**Radiated Spurious Emission Measurements (Cont'd)**  
**§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]**

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



Frequency [MHz]	Analyzer Level [dBm]	Detector	Pol. [H/V]	AFCL [dB/m]	Field Strength [dB $\mu$ V/m]	Limit [dB $\mu$ V/m]	Margin [dB]
10560.00	-125.00	Peak	H	46.80	28.80	68.20	-39.40
15840.00	-135.00	Average	H	51.41	23.41	53.98	-30.57
15840.00	-125.00	Peak	H	51.41	33.41	73.98	-40.57
21120.00	-135.00	Average	H	43.74	15.74	53.98	-38.24
21120.00	-125.00	Peak	H	43.74	25.74	73.98	-48.24
26400.00	-125.00	Peak	H	44.72	26.72	68.20	-41.48

**Table 6-46. 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	Pol. [H/V]	AFCL [dB/m]	Field Strength [dB $\mu$ V/m]	Limit [dB $\mu$ V/m]	Margin [dB]
10640.00	-135.00	Average	H	46.91	18.91	53.98	-35.07
10640.00	-125.00	Peak	H	46.91	28.91	73.98	-45.07
15960.00	-135.00	Average	H	51.56	23.56	53.98	-30.42
15960.00	-125.00	Peak	H	51.56	33.56	73.98	-40.42
21280.00	-135.00	Average	H	43.64	15.64	53.98	-38.34
21280.00	-125.00	Peak	H	43.64	25.64	73.98	-48.34
26600.00	-125.00	Peak	H	47.28	29.28	68.20	-38.92

**Table 6-47. Radiated Measurements**

FCC ID: A3LSMG900S		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1402030290.A3L	Test Dates: 2/5 - 2/21/2014	EUT Type: Portable Handset		Page 109 of 181

**Radiated Spurious Emission Measurements (Cont'd)**  
**§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]**

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

Frequency [MHz]	Analyzer Level [dBm]	Detector	Pol. [H/V]	AFCL [dB/m]	Field Strength [dB $\mu$ V/m]	Limit [dB $\mu$ V/m]	Margin [dB]
11000.00	-135.00	Average	H	46.89	18.89	53.98	-35.09
11000.00	-125.00	Peak	H	46.89	28.89	73.98	-45.09
16500.00	-125.00	Peak	H	52.90	34.90	68.20	-33.30
22000.00	-125.00	Peak	H	44.65	26.65	68.20	-41.55
27500.00	-125.00	Peak	H	48.51	30.51	68.20	-37.69

**Table 6-48. 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	Pol. [H/V]	AFCL [dB/m]	Field Strength [dB $\mu$ V/m]	Limit [dB $\mu$ V/m]	Margin [dB]
11160.00	-135.00	Average	H	47.05	19.05	53.98	-34.93
11160.00	-125.00	Peak	H	47.05	29.05	73.98	-44.93
16740.00	-125.00	Peak	H	53.06	35.06	68.20	-33.14
22320.00	-135.00	Average	H	43.93	15.93	53.98	-38.05
22320.00	-125.00	Peak	H	43.93	25.93	73.98	-48.05
27900.00	-125.00	Peak	H	48.13	30.13	68.20	-38.07



**Table 6-49. Radiated Measurements**

**Radiated Spurious Emission Measurements (Cont'd)**  
§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]

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

Frequency [MHz]	Analyzer Level [dBm]	Detector	Pol. [H/V]	AFCL [dB/m]	Field Strength [dB $\mu$ V/m]	Limit [dB $\mu$ V/m]	Margin [dB]
11400.00	-135.00	Average	H	47.26	19.26	53.98	-34.72
11400.00	-125.00	Peak	H	47.26	29.26	73.98	-44.72
17100.00	-125.00	Peak	H	52.93	34.93	68.20	-33.27
22800.00	-135.00	Average	H	43.39	15.39	53.98	-38.59
22800.00	-125.00	Peak	H	43.39	25.39	73.98	-48.59
28500.00	-125.00	Peak	H	48.03	30.03	68.20	-38.17

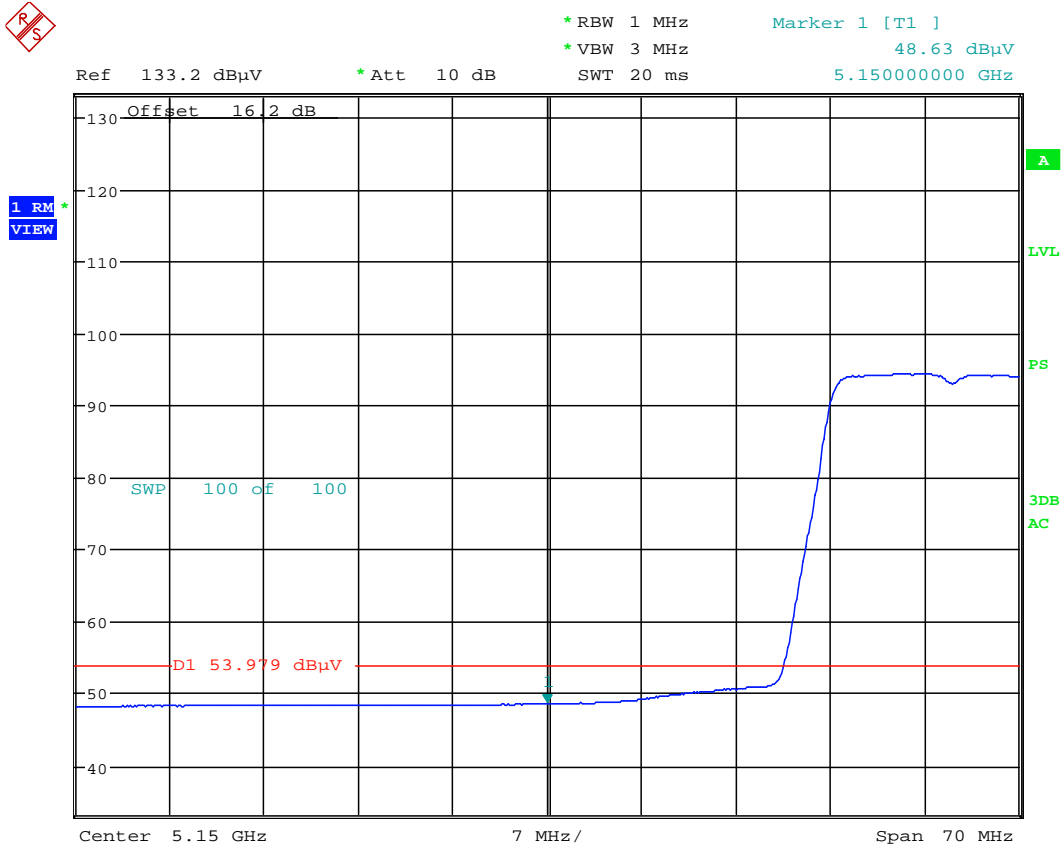
**Table 6-50. Radiated Measurements**

FCC ID: A3LSMG900S		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1402030290.A3L	Test Dates: 2/5 - 2/21/2014	EUT Type: Portable Handset	Page 111 of 181	

## 6.8 Antenna-1 Radiated Band Edge Measurements

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

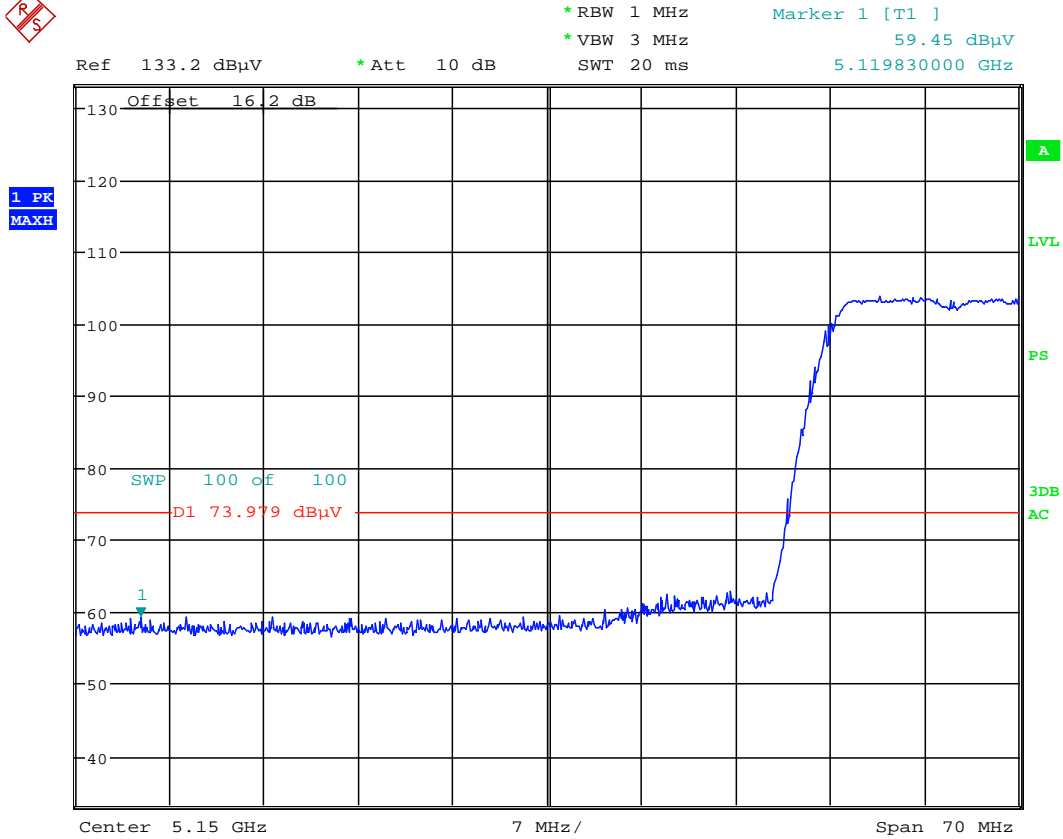
Worst Case Mode: 802.11n (20MHz)  
 Worst Case Transfer Rate: MCS0  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 5180MHz  
 Channel: 36



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

FCC ID: A3LSMG900S		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1402030290.A3L	Test Dates: 2/5 - 2/21/2014	EUT Type: Portable Handset		Page 112 of 181

**Radiated Band Edge Measurements (20MHz BW) (Cont'd)**  
§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]



**Plot 6-135. Radiated Restricted Lower Band Edge Plot (Peak – UNII Band 1)**

FCC ID: A3LSMG900S	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1402030290.A3L	Test Dates: 2/5 - 2/21/2014	EUT Type: Portable Handset	Page 113 of 181	

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

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

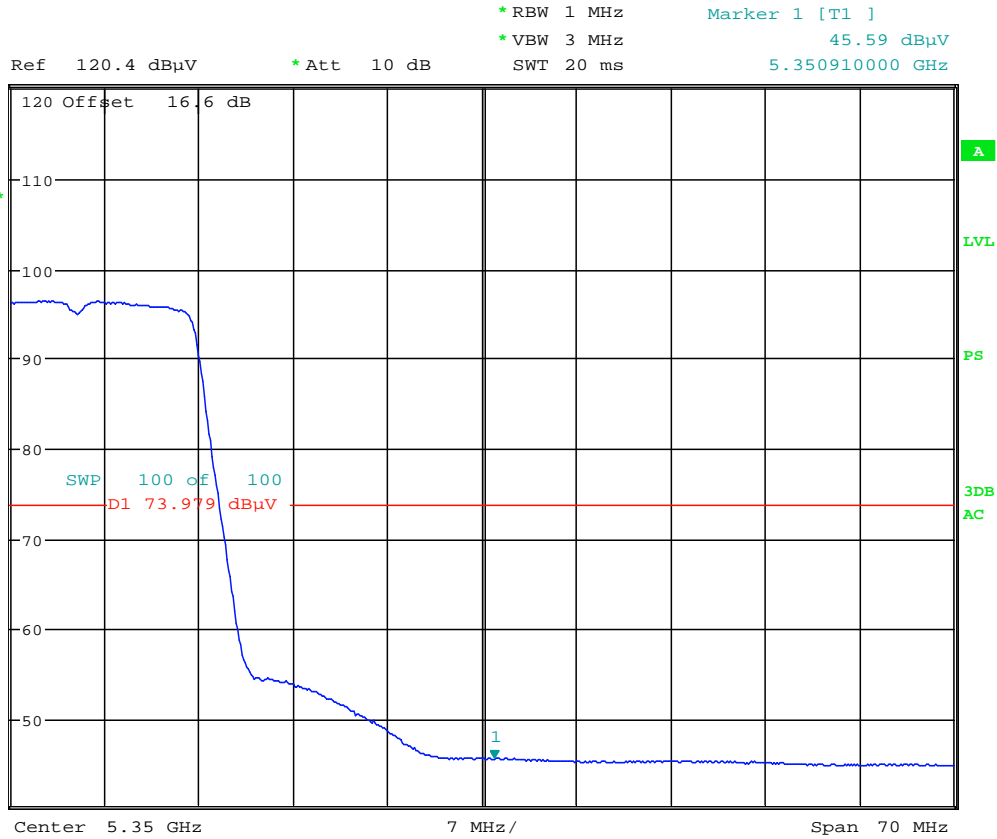
Worst Case Mode: 802.11n (20MHz)

Worst Case Transfer Rate: MCS0

Distance of Measurements: 3 Meters

Operating Frequency: 5320MHz

Channel: 64



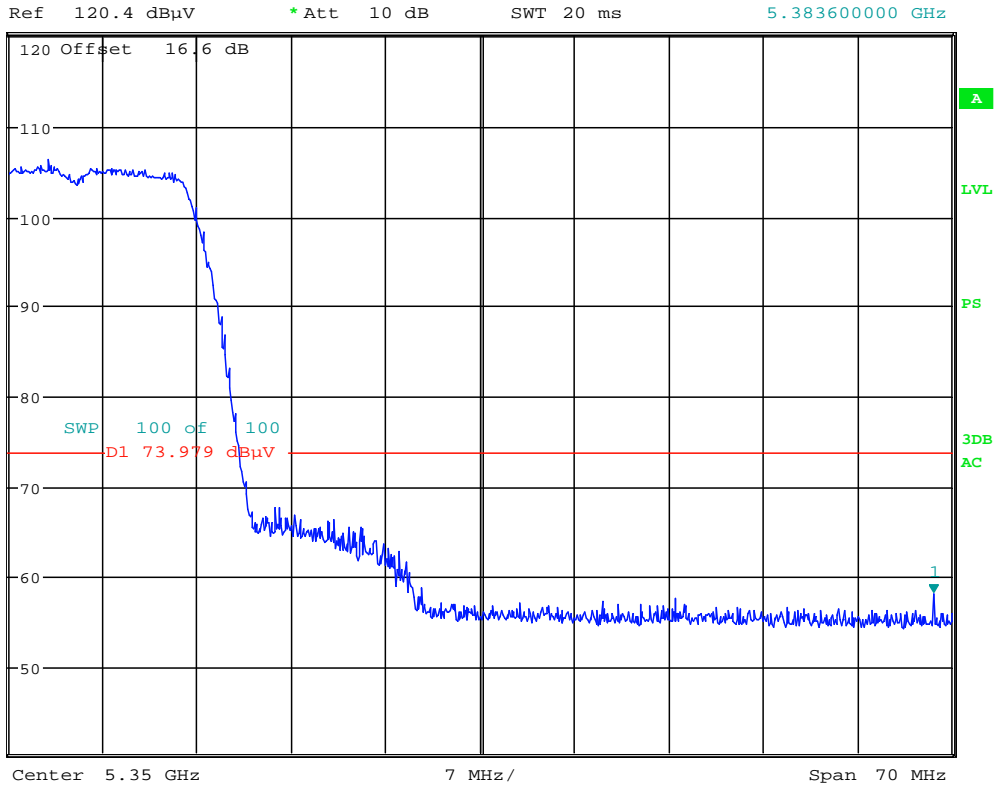
**Plot 6-136. Radiated Restricted Upper Band Edge Plot (Average – UNII Band 2A)**

FCC ID: A3LSMG900S		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1402030290.A3L	Test Dates: 2/5 - 2/21/2014	EUT Type: Portable Handset		Page 114 of 181

**Radiated Band Edge Measurements (20MHz BW) (Cont'd)**  
**§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]**



\*RBW 1 MHz      Marker 1 [T1 ]  
\*VBW 3 MHz      58.17 dBμV  
SWT 20 ms      5.383600000 GHz

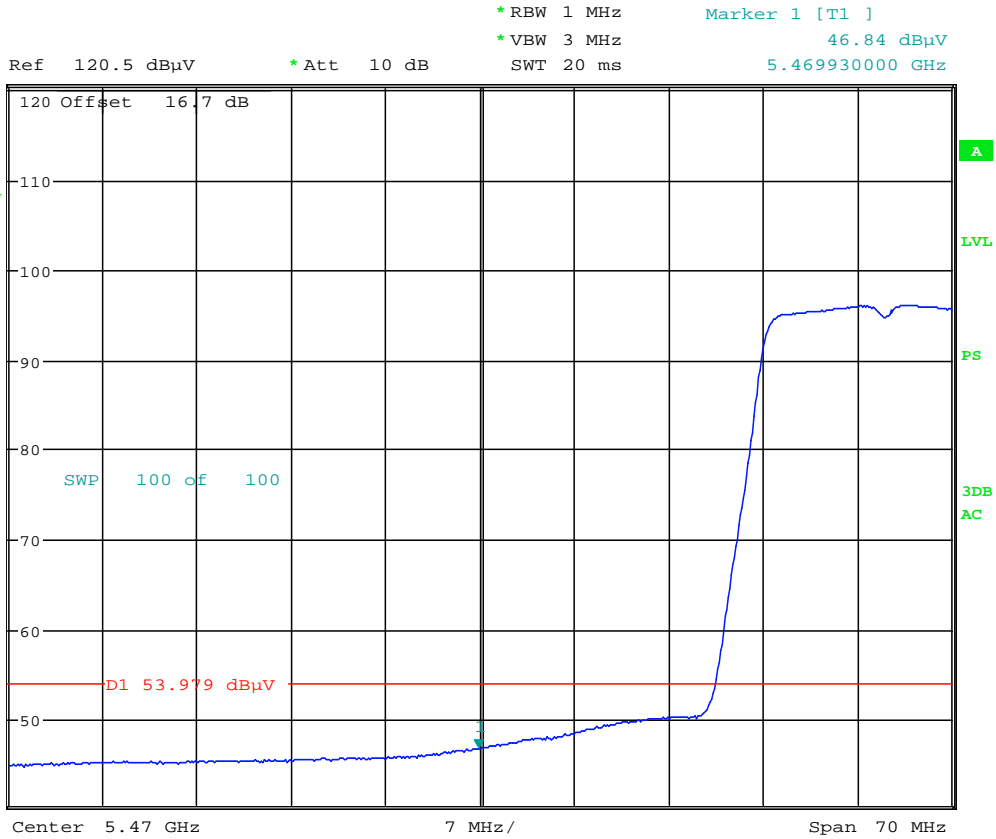


**Plot 6-137. Radiated Restricted Upper Band Edge Plot (Peak – UNII Band 2A)**

FCC ID: A3LSMG900S		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1402030290.A3L	Test Dates: 2/5 - 2/21/2014	EUT Type: Portable Handset		Page 115 of 181

**Radiated Band Edge Measurements (20MHz BW) (Cont'd)**  
**§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]**

Worst Case Mode: 802.11n (20MHz)  
 Worst Case Transfer Rate: MCS0  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 5500MHz  
 Channel: 100



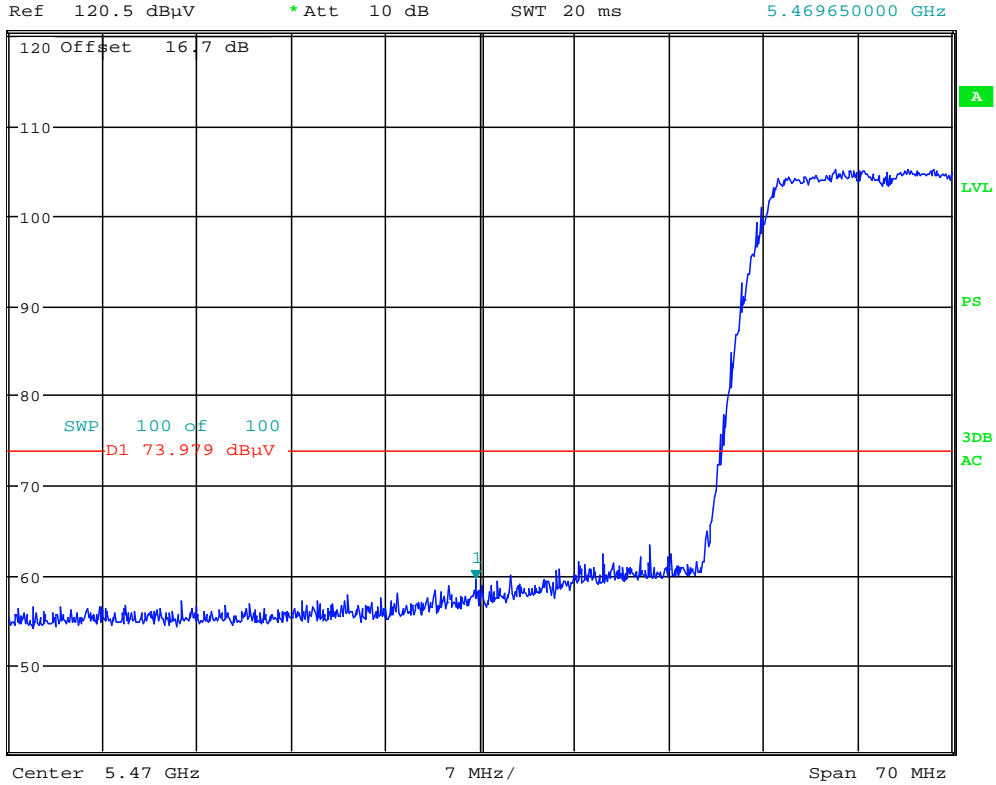
**Plot 6-138. Radiated Restricted Lower Band Edge Plot (Average – UNII Band 2C)**

FCC ID: A3LSMG900S		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1402030290.A3L	Test Dates: 2/5 - 2/21/2014	EUT Type: Portable Handset		Page 116 of 181

**Radiated Band Edge Measurements (20MHz BW) (Cont'd)**  
**§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]**



\*RBW 1 MHz      Marker 1 [T1 ]  
\*VBW 3 MHz      59.56 dBµV  
SWT 20 ms      5.469650000 GHz



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

FCC ID: A3LSMG900S	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: 0Y1402030290.A3L	Test Dates: 2/5 - 2/21/2014	EUT Type: Portable Handset	Page 117 of 181	

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

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

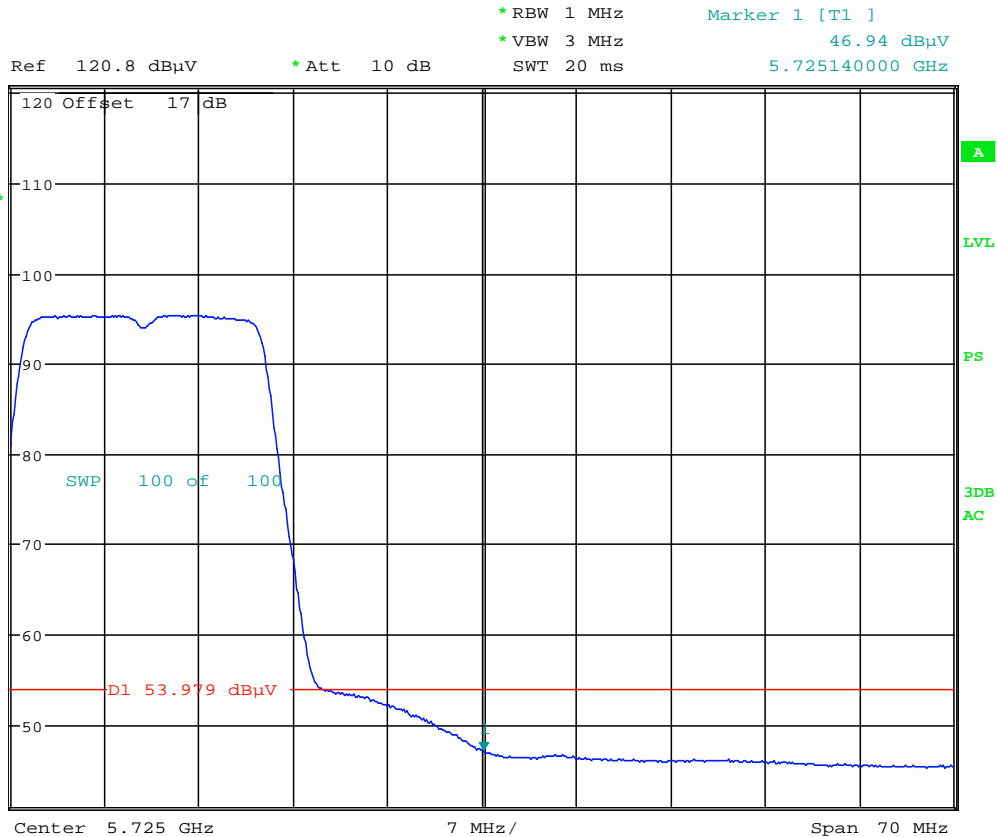
Worst Case Mode: 802.11n (20MHz)

Worst Case Transfer Rate: MCS0

Distance of Measurements: 3 Meters

Operating Frequency: 5700MHz

Channel: 140



**Plot 6-140. Radiated Upper Band Edge Plot (Average – UNII Band 2C)**

FCC ID: A3LSMG900S		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1402030290.A3L	Test Dates: 2/5 - 2/21/2014	EUT Type: Portable Handset		Page 118 of 181

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

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

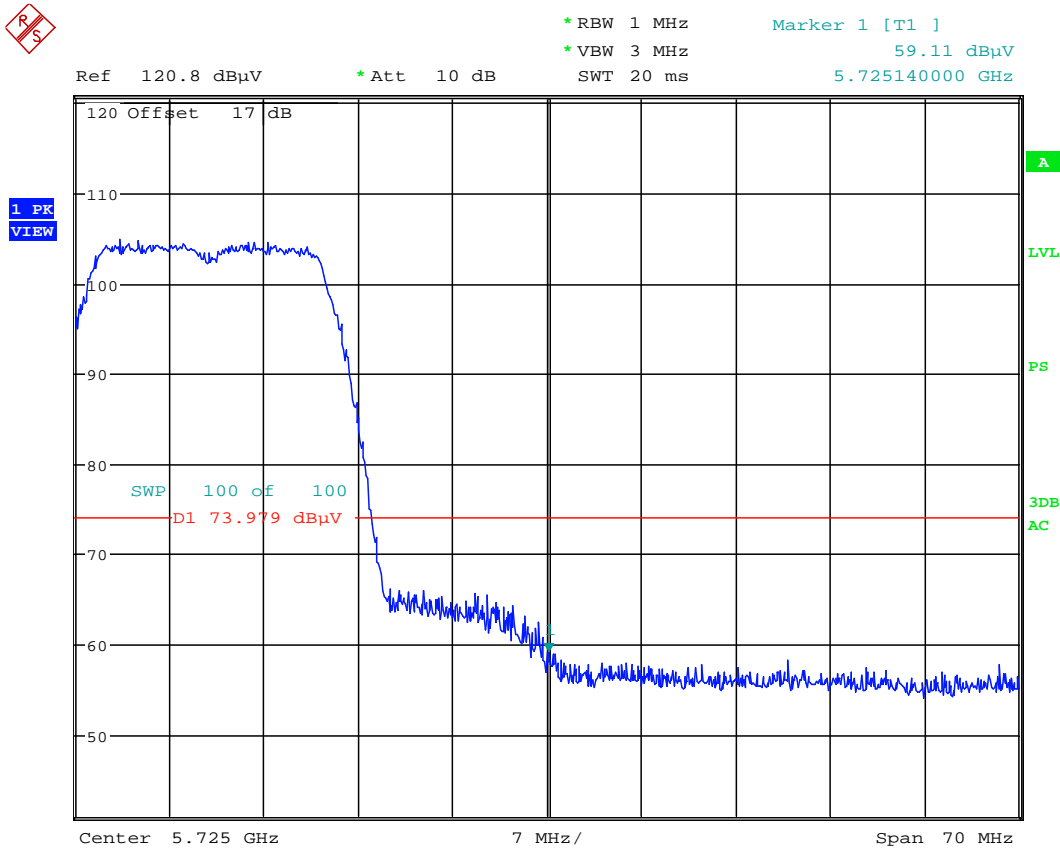
Worst Case Mode: 802.11n (20MHz)

Worst Case Transfer Rate: MCS0

Distance of Measurements: 3 Meters

Operating Frequency: 5700MHz

Channel: 140



**Plot 6-141. Radiated Upper Band Edge Plot (Peak – UNII Band 2C)**

FCC ID: A3LSMG900S		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1402030290.A3L	Test Dates: 2/5 - 2/21/2014	EUT Type: Portable Handset		Page 119 of 181

# Radiated Band Edge Measurements (40MHz BW)

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

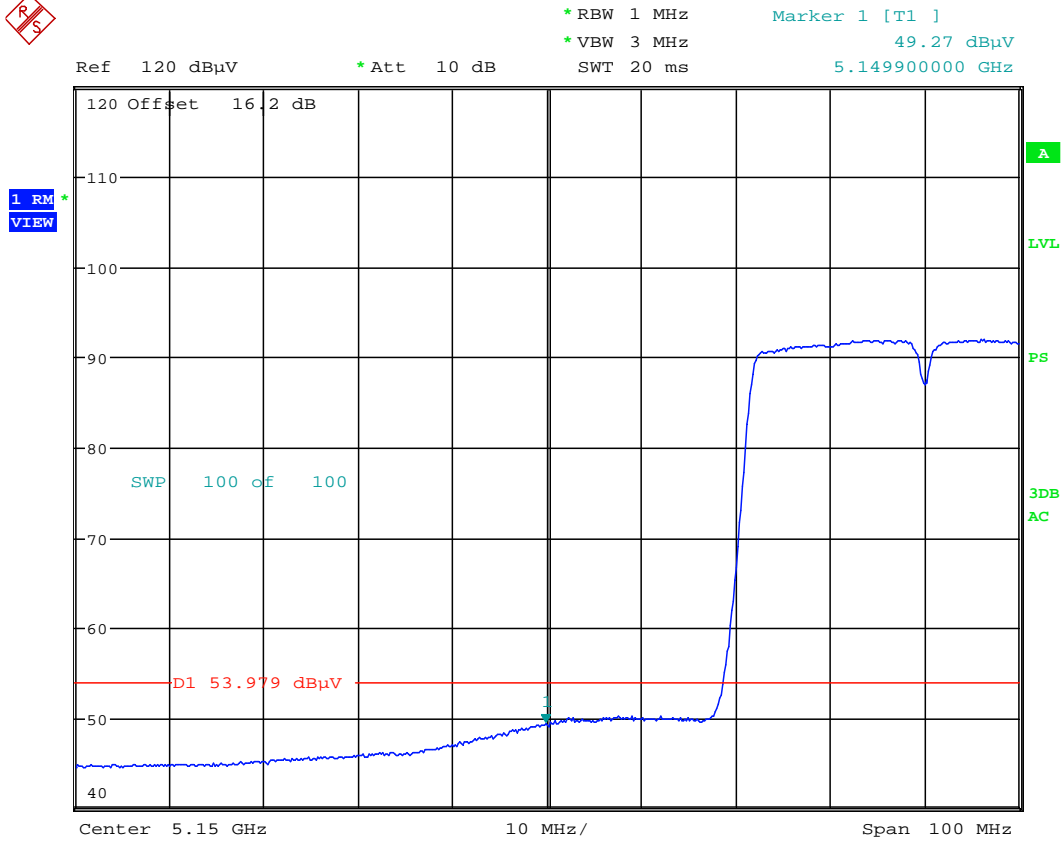
Worst Case Mode: 802.11n (40MHz)

Worst Case Transfer Rate: MCS0

Distance of Measurements: 3 Meters

Operating Frequency: 5190MHz

Channel: 38



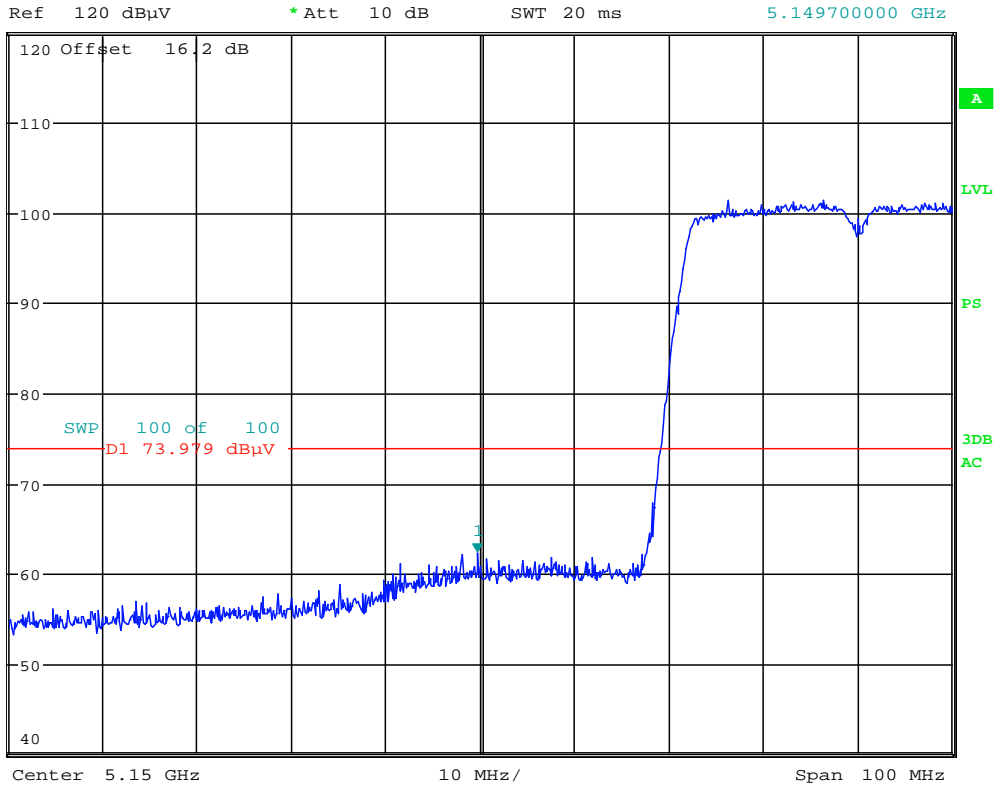
**Plot 6-142. Radiated Restricted Lower Band Edge Plot (Average – UNII Band 1)**

FCC ID: A3LSMG900S		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1402030290.A3L	Test Dates: 2/5 - 2/21/2014	EUT Type: Portable Handset	Page 120 of 181	

**Radiated Band Edge Measurements (40MHz BW) (Cont'd)**  
§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]



\*RBW 1 MHz      Marker 1 [T1 ]  
\*VBW 3 MHz      62.23 dBµV  
SWT 20 ms      5.149700000 GHz

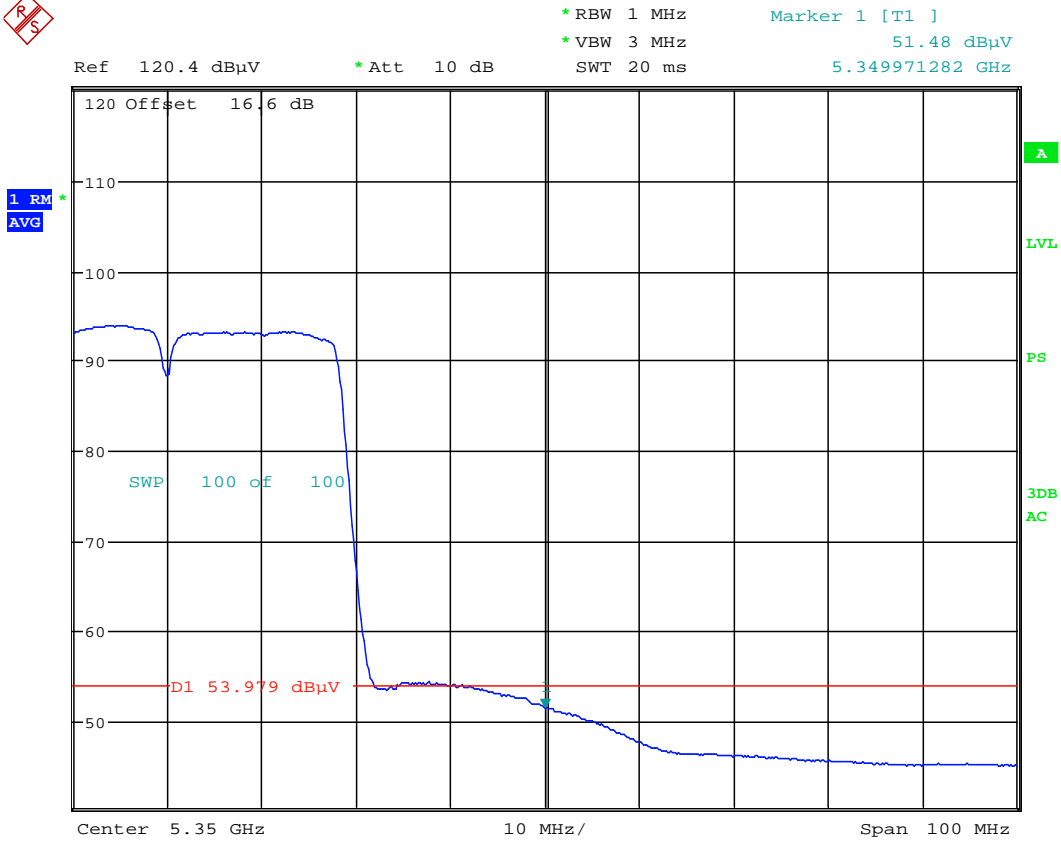


**Plot 6-143. Radiated Restricted Lower Band Edge Plot (Peak – UNII Band 1)**

FCC ID: A3LSMG900S		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1402030290.A3L	Test Dates: 2/5 - 2/21/2014	EUT Type: Portable Handset	Page 121 of 181	

**Radiated Band Edge Measurements (40MHz BW) (Cont'd)**  
§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]

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



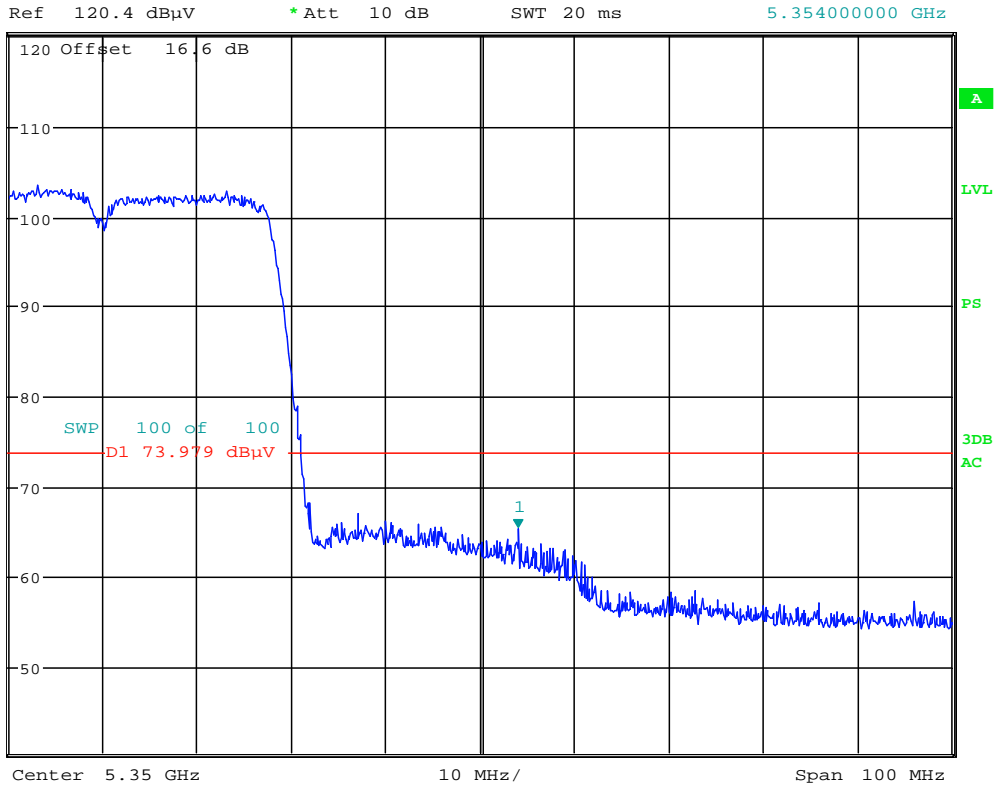
**Plot 6-144. Radiated Restricted Upper Band Edge Plot (Average – UNII Band 2A)**

FCC ID: A3LSMG900S		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1402030290.A3L	Test Dates: 2/5 - 2/21/2014	EUT Type: Portable Handset		Page 122 of 181

**Radiated Band Edge Measurements (40MHz BW) (Cont'd)**  
**§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]**



\*RBW 1 MHz      Marker 1 [T1 ]  
 \*VBW 3 MHz      65.33 dBμV  
 SWT 20 ms      5.354000000 GHz

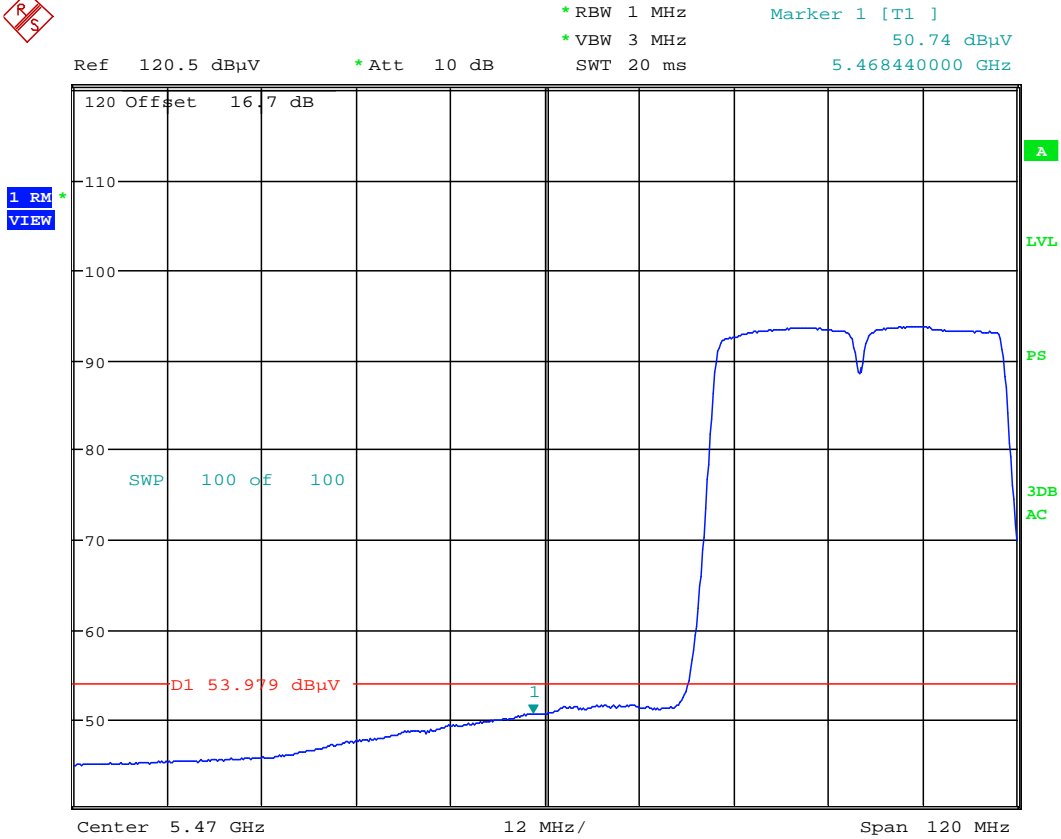


**Plot 6-145. Radiated Restricted Upper Band Edge Plot (Peak – UNII Band 2A)**

<b>FCC ID:</b> A3LSMG900S		<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> 0Y1402030290.A3L	<b>Test Dates:</b> 2/5 - 2/21/2014	<b>EUT Type:</b> Portable Handset	Page 123 of 181	

**Radiated Band Edge Measurements (40MHz BW) (Cont'd)**  
**§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]**

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



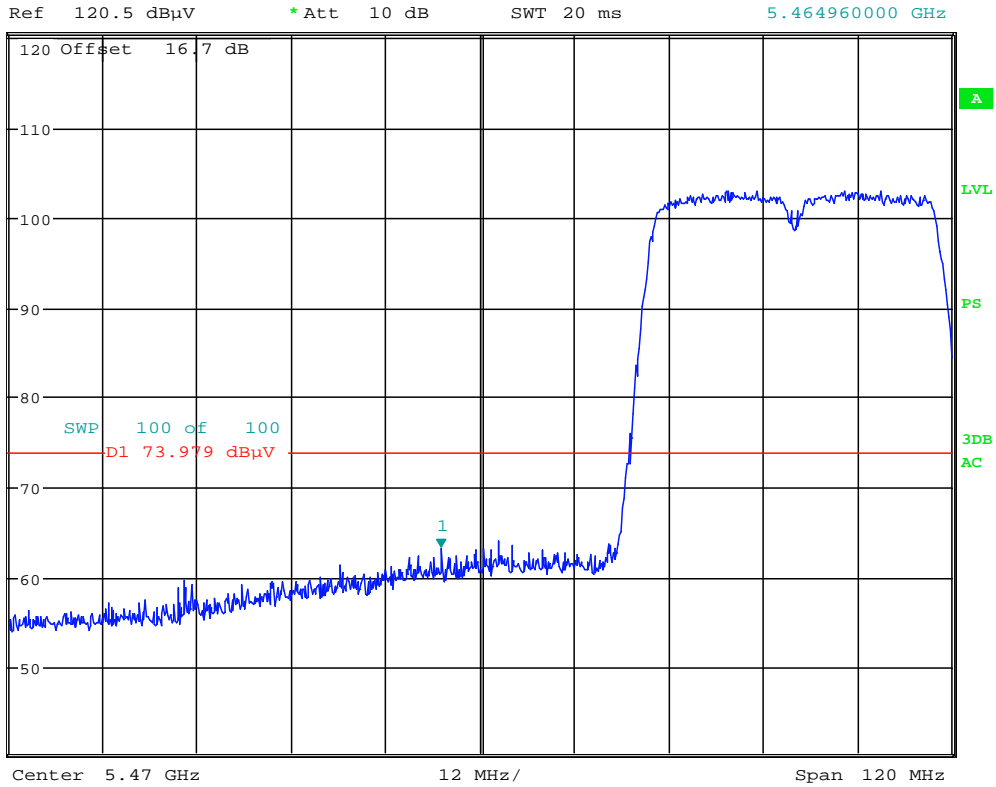
**Plot 6-146. Radiated Restricted Lower Band Edge Plot (Average – UNII Band 2C)**

FCC ID: A3LSMG900S		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1402030290.A3L	Test Dates: 2/5 - 2/21/2014	EUT Type: Portable Handset		Page 124 of 181

**Radiated Band Edge Measurements (40MHz BW) (Cont'd)**  
§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]



\*RBW 1 MHz      Marker 1 [T1 ]  
\*VBW 3 MHz      63.20 dBµV  
SWT 20 ms      5.464960000 GHz



**Plot 6-147. Radiated Restricted Lower Band Edge Plot (Peak – UNII Band 2C)**

FCC ID: A3LSMG900S		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1402030290.A3L	Test Dates: 2/5 - 2/21/2014	EUT Type: Portable Handset	Page 125 of 181	

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

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

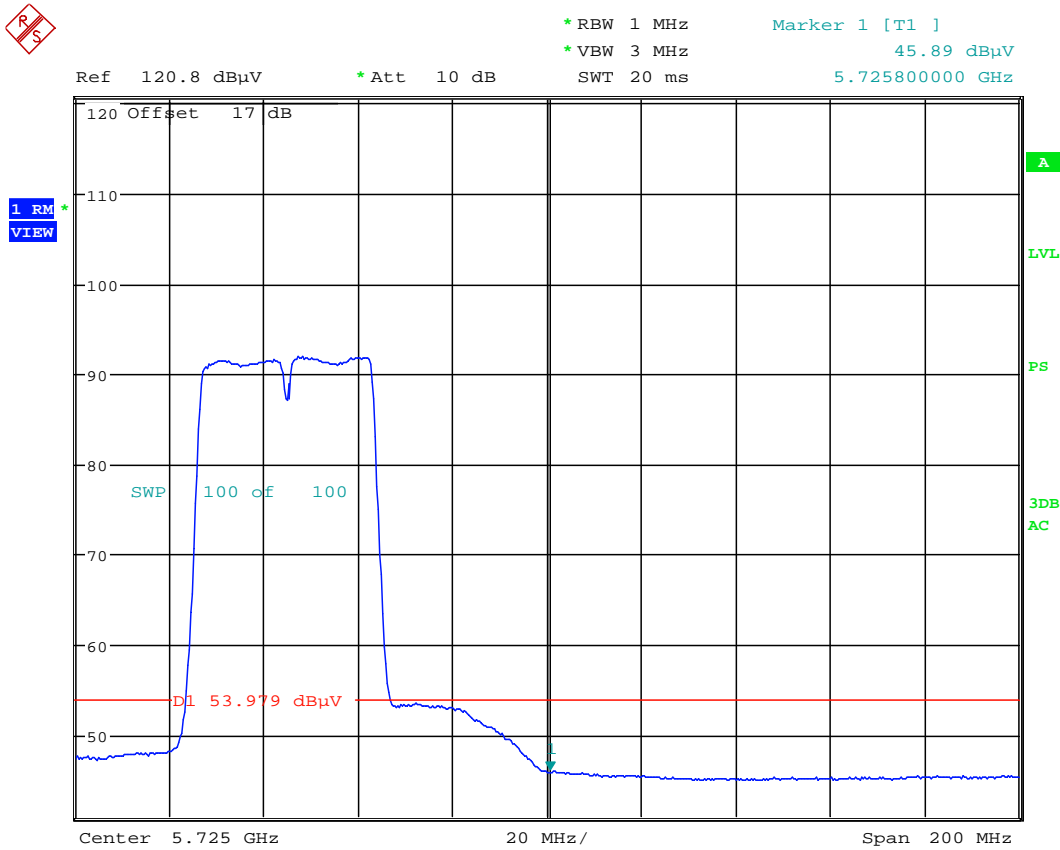
Worst Case Mode: 802.11n (40MHz)

Worst Case Transfer Rate: MCS0

Distance of Measurements: 3 Meters

Operating Frequency: 5700MHz

Channel: 140



**Plot 6-148. Radiated Upper Band Edge Plot (Average – UNII Band 2C)**

FCC ID: A3LSMG900S		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1402030290.A3L	Test Dates: 2/5 - 2/21/2014	EUT Type: Portable Handset	Page 126 of 181	

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

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

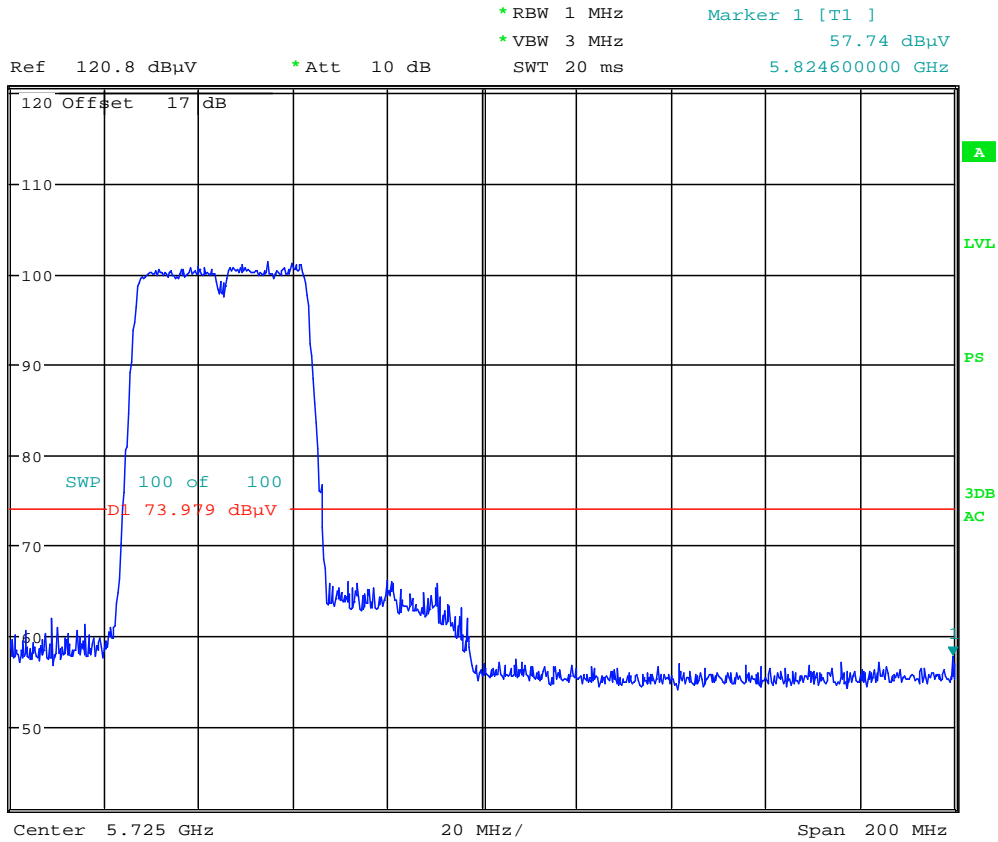
Worst Case Mode: 802.11n (40MHz)

Worst Case Transfer Rate: MCS0

Distance of Measurements: 3 Meters

Operating Frequency: 5670MHz

Channel: 134

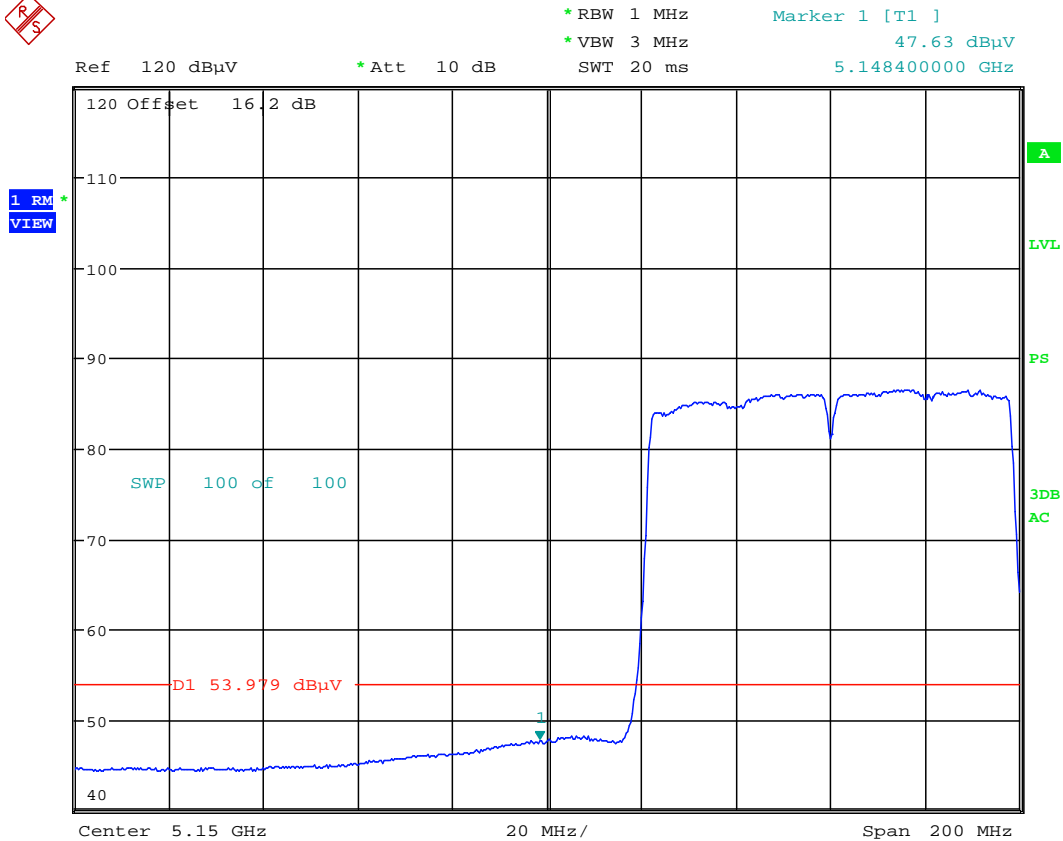


**Plot 6-149. Radiated Upper Band Edge Plot (Peak – UNII Band 2C)**

FCC ID: A3LSMG900S		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1402030290.A3L	Test Dates: 2/5 - 2/21/2014	EUT Type: Portable Handset		Page 127 of 181

## Radiated Band Edge Measurements (80MHz BW) §15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]

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



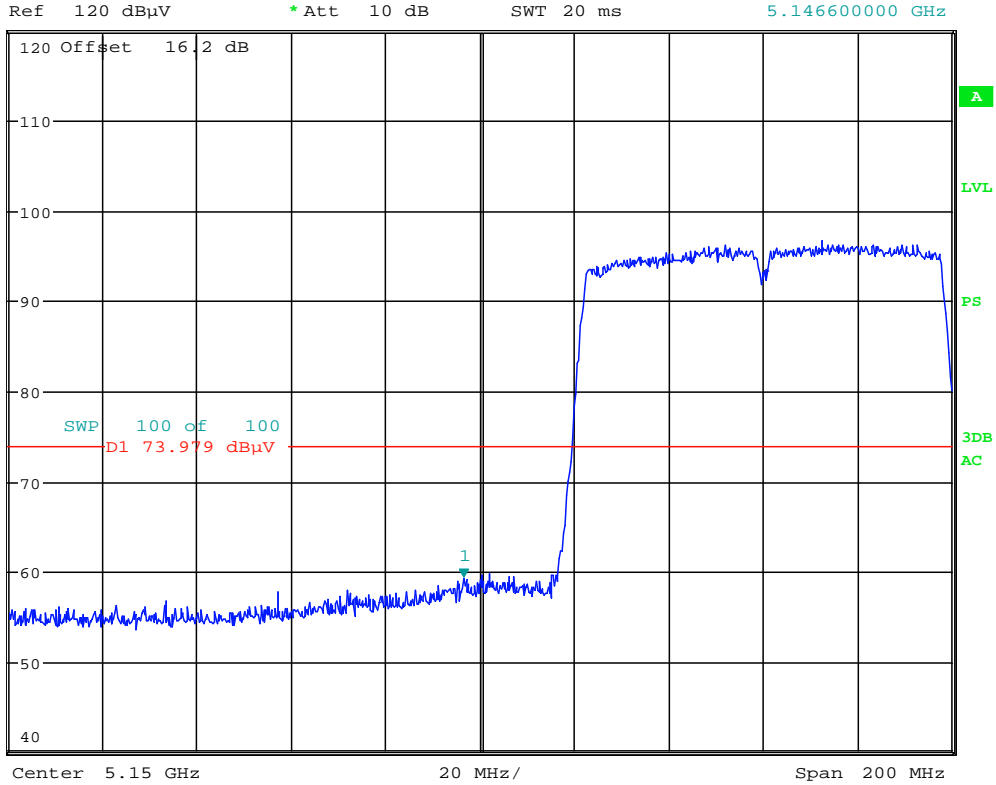
**Plot 6-150. Radiated Restricted Lower Band Edge Plot (Average – UNII Band 1)**

FCC ID: A3LSMG900S		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1402030290.A3L	Test Dates: 2/5 - 2/21/2014	EUT Type: Portable Handset	Page 128 of 181	

**Radiated Band Edge Measurements (80MHz BW) (Cont'd)**  
**§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]**



\*RBW 1 MHz      Marker 1 [T1 ]  
\*VBW 3 MHz      59.25 dBμV  
SWT 20 ms      5.146600000 GHz

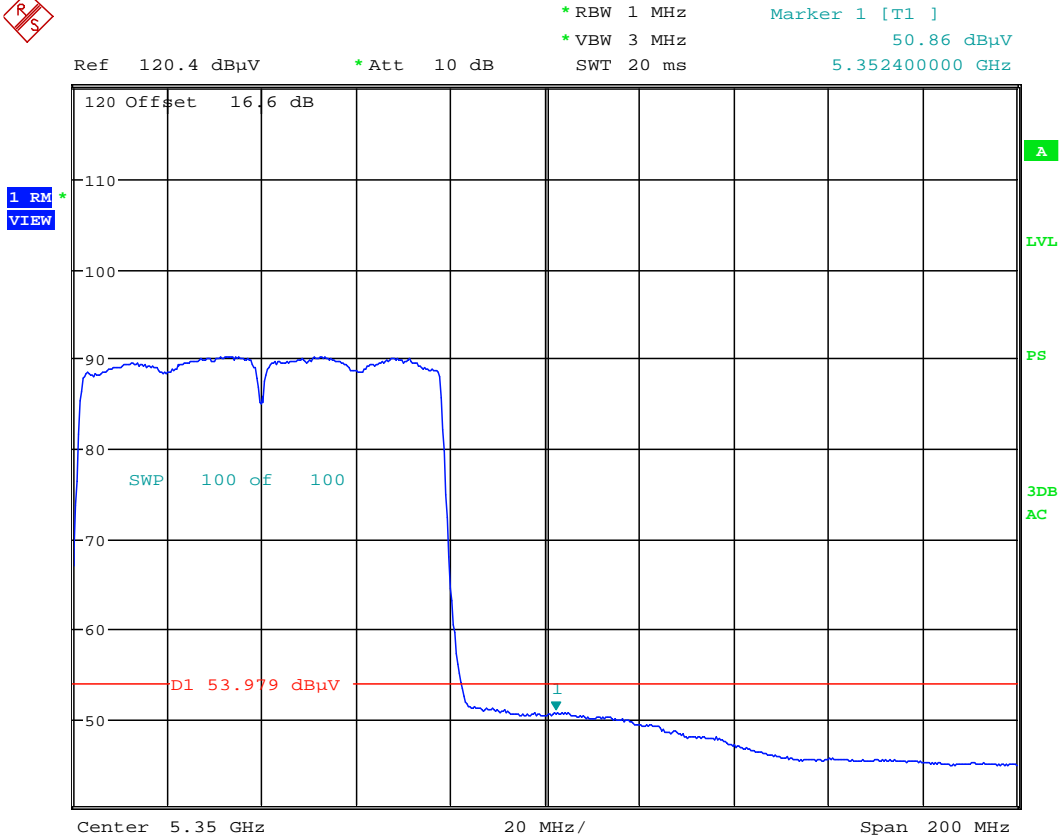


**Plot 6-151. Radiated Restricted Lower Band Edge Plot (Peak – UNII Band 1)**

<b>FCC ID:</b> A3L5MG900S		<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> 0Y1402030290.A3L	<b>Test Dates:</b> 2/5 - 2/21/2014	<b>EUT Type:</b> Portable Handset	Page 129 of 181	

**Radiated Band Edge Measurements (80MHz BW) (Cont'd)**  
**§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]**

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



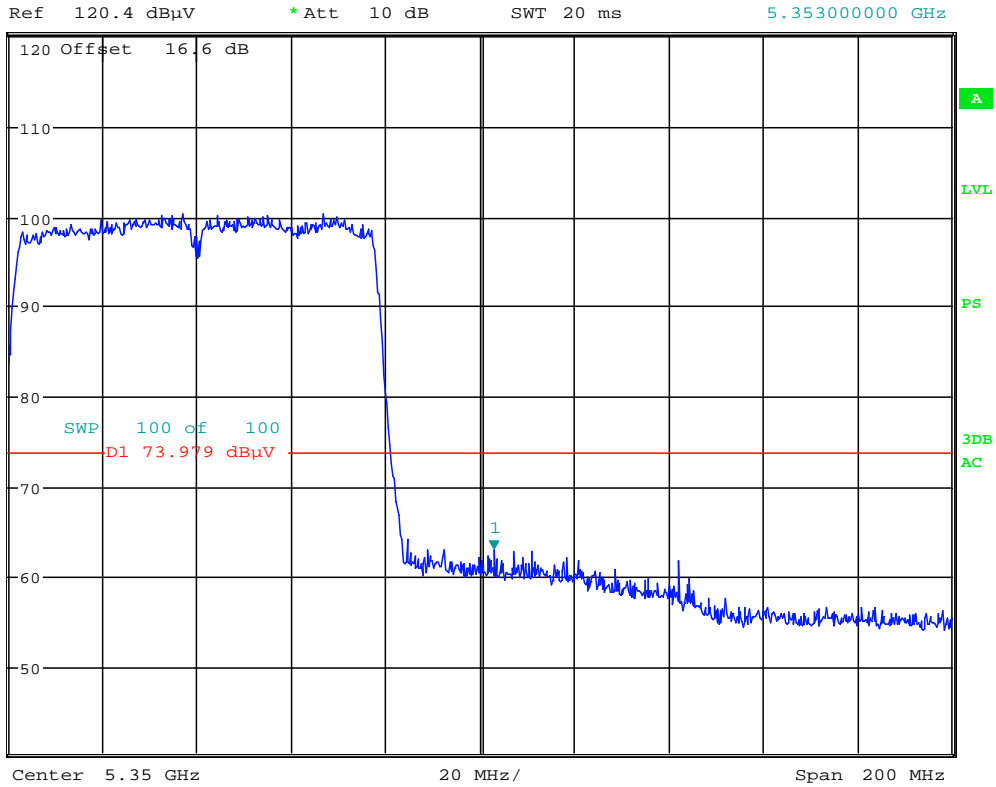
**Plot 6-152. Radiated Restricted Upper Band Edge Plot (Average – UNII Band 2A)**

FCC ID: A3LSMG900S		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1402030290.A3L	Test Dates: 2/5 - 2/21/2014	EUT Type: Portable Handset		Page 130 of 181

**Radiated Band Edge Measurements (80MHz BW) (Cont'd)**  
**§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]**



\*RBW 1 MHz      Marker 1 [T1 ]  
 \*VBW 3 MHz      63.02 dBµV  
 SWT 20 ms      5.353000000 GHz

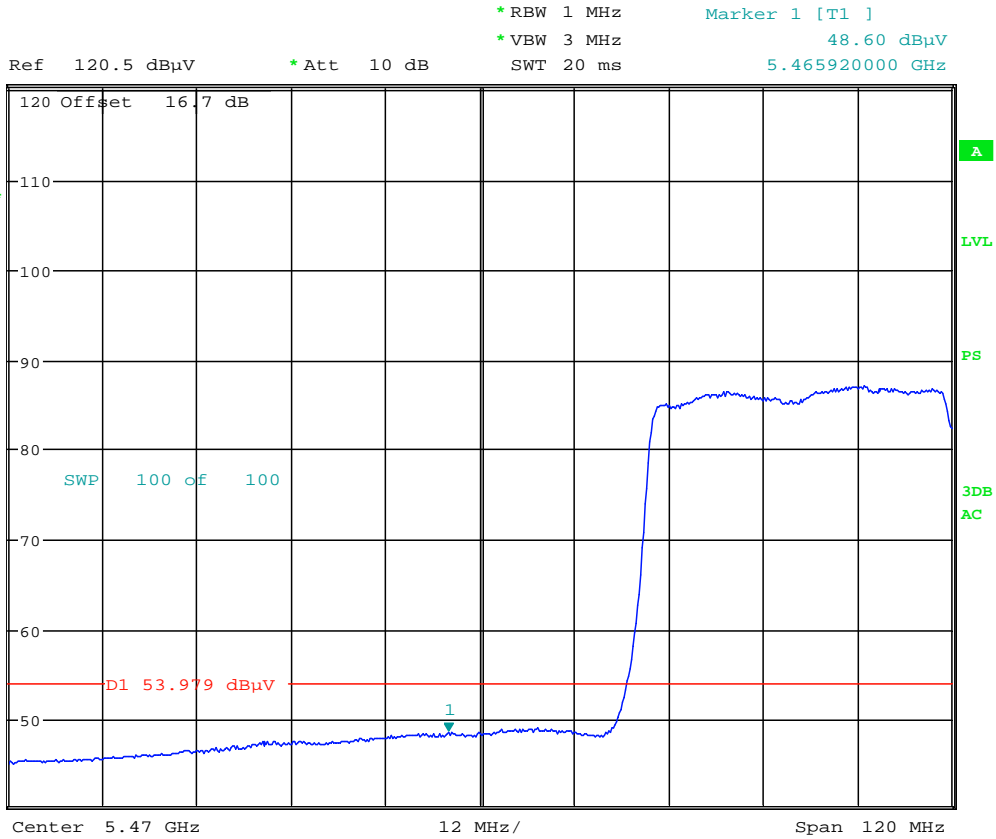


**Plot 6-153. Radiated Restricted Upper Band Edge Plot (Peak – UNII Band 2A)**

FCC ID: A3LSMG900S		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1402030290.A3L	Test Dates: 2/5 - 2/21/2014	EUT Type: Portable Handset	Page 131 of 181	

**Radiated Band Edge Measurements (80MHz BW) (Cont'd)**  
**§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]**

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



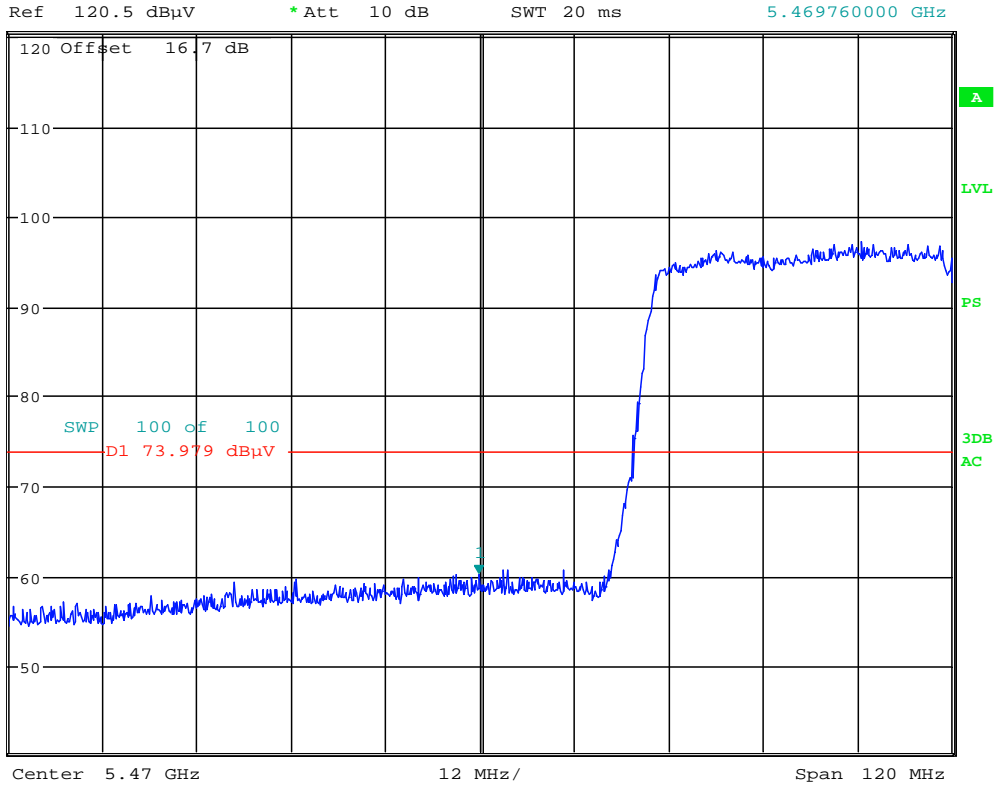
**Plot 6-154. Radiated Restricted Lower Band Edge Plot (Average – UNII Band 2C)**

FCC ID: A3LSMG900S		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1402030290.A3L	Test Dates: 2/5 - 2/21/2014	EUT Type: Portable Handset	Page 132 of 181	

**Radiated Band Edge Measurements (80MHz BW) (Cont'd)**  
§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]



\*RBW 1 MHz      Marker 1 [T1 ]  
\*VSW 3 MHz      60.32 dBµV  
SWT 20 ms      5.469760000 GHz

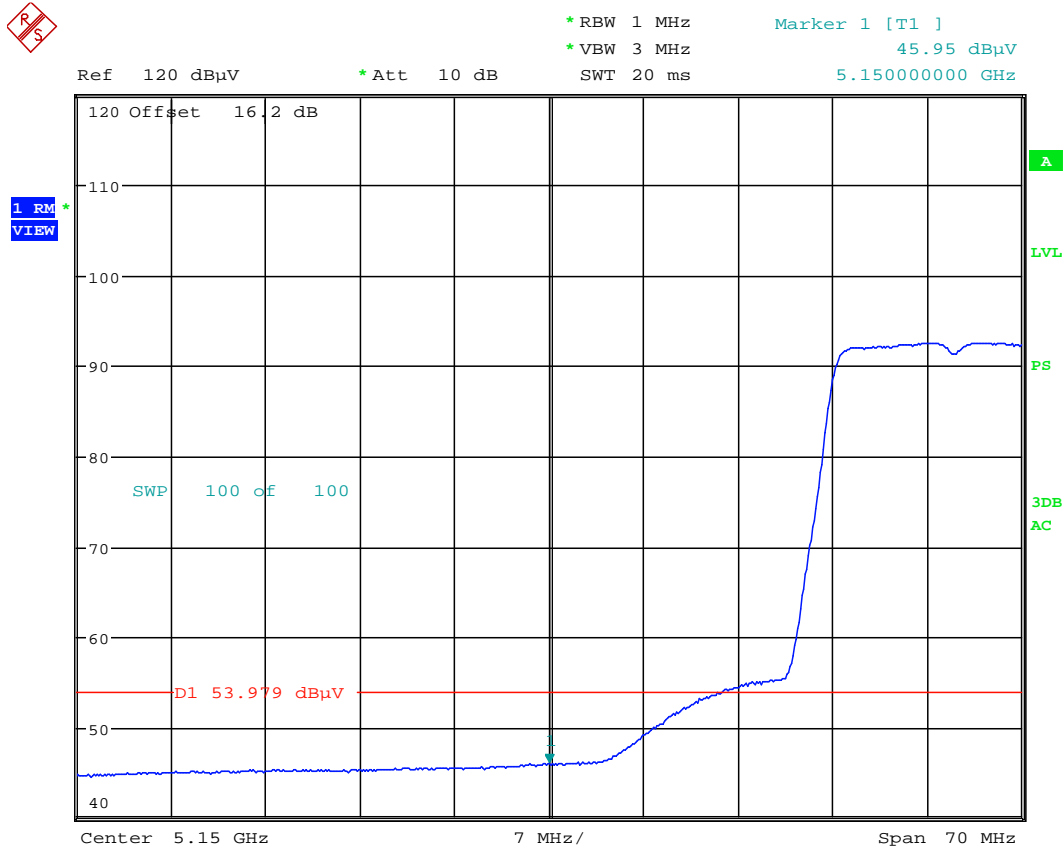


**Plot 6-155. Radiated Restricted Lower Band Edge Plot (Peak – UNII Band 2C)**

FCC ID: A3LSMG900S		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1402030290.A3L	Test Dates: 2/5 - 2/21/2014	EUT Type: Portable Handset	Page 133 of 181	

## 6.9 Antenna-2 Radiated Band Edge Measurements

Worst Case Mode: 802.11n (20MHz)  
 Worst Case Transfer Rate: MCS0  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 5180MHz  
 Channel: 36



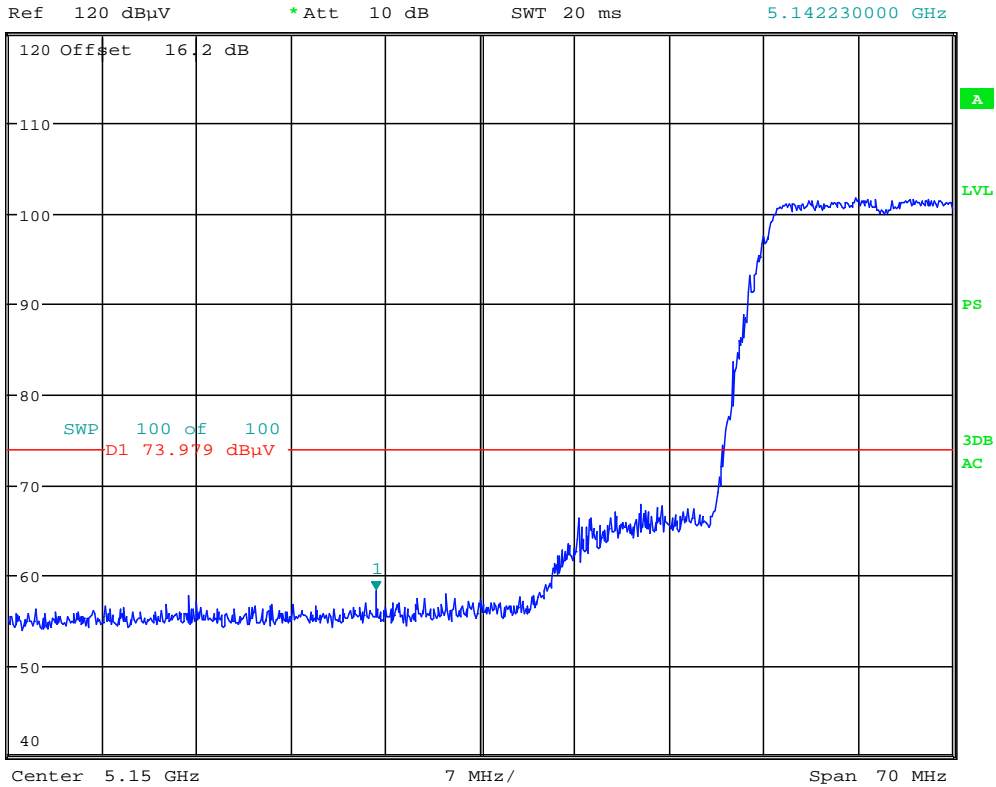
**Plot 6-156. Radiated Restricted Lower Band Edge Plot (Average – UNII Band 1)**

FCC ID: A3LSMG900S		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1402030290.A3L	Test Dates: 2/5 - 2/21/2014	EUT Type: Portable Handset	Page 134 of 181	

**Radiated Band Edge Measurements (20MHz BW) (Cont'd)**  
**§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]**



\*RBW 1 MHz      Marker 1 [T1 ]  
\*VBW 3 MHz      58.21 dBµV  
SWT 20 ms      5.142230000 GHz



**Plot 6-157. Radiated Restricted Lower Band Edge Plot (Peak – UNII Band 1)**

<b>FCC ID:</b> A3LSMG900S		<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> 0Y1402030290.A3L	<b>Test Dates:</b> 2/5 - 2/21/2014	<b>EUT Type:</b> Portable Handset	Page 135 of 181	

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

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

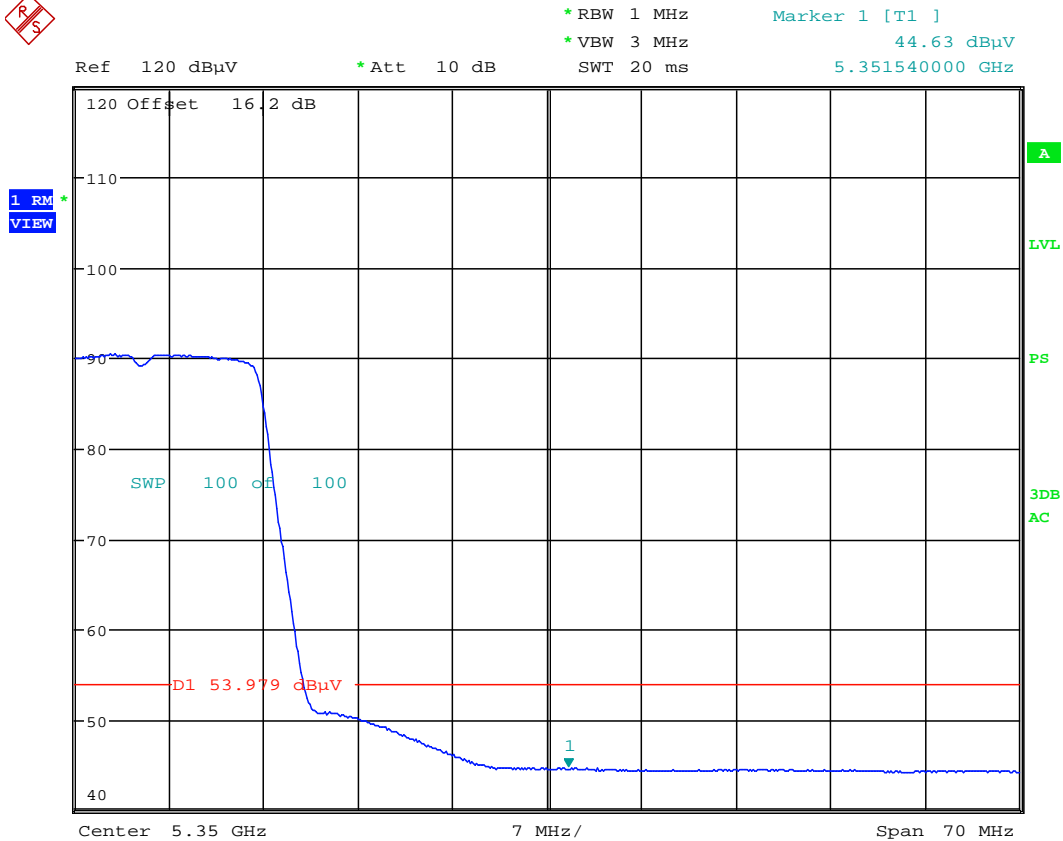
Worst Case Mode: 802.11n (20MHz)

Worst Case Transfer Rate: MCS0

Distance of Measurements: 3 Meters

Operating Frequency: 5320MHz

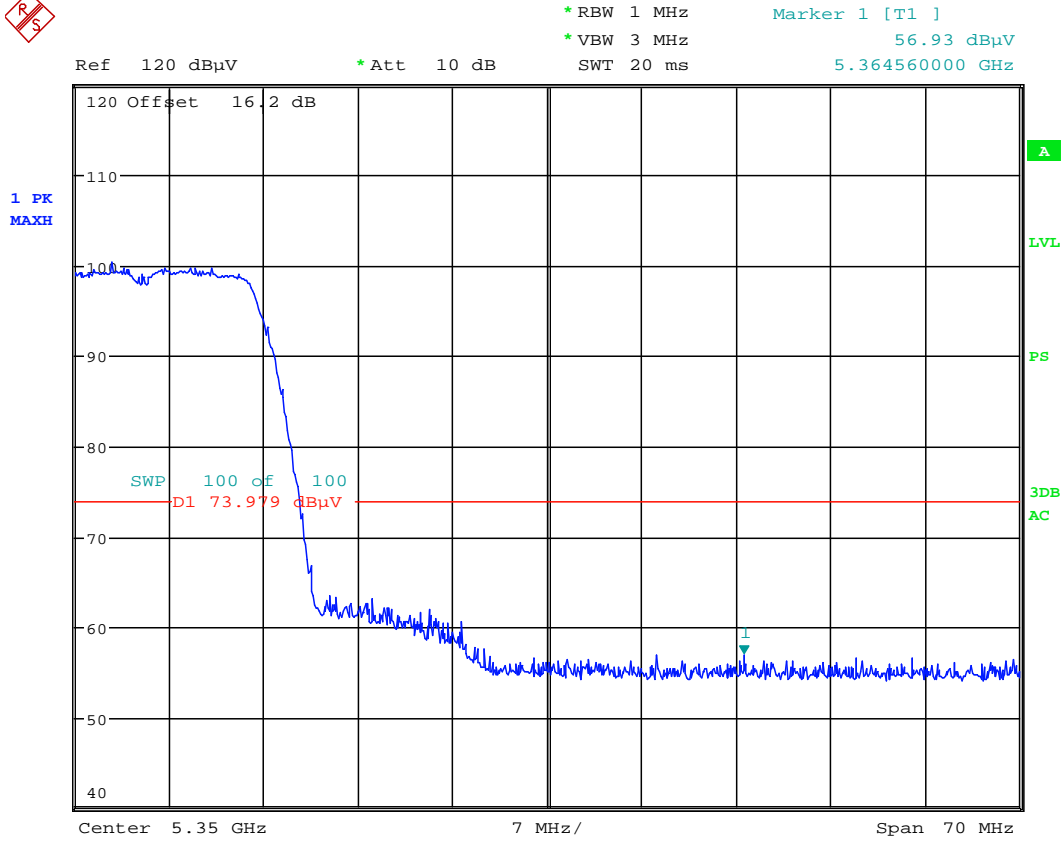
Channel: 64



**Plot 6-158. Radiated Restricted Upper Band Edge Plot (Average – UNII Band 2A)**

FCC ID: A3LSMG900S		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1402030290.A3L	Test Dates: 2/5 - 2/21/2014	EUT Type: Portable Handset		Page 136 of 181

**Radiated Band Edge Measurements (20MHz BW) (Cont'd)**  
**§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]**

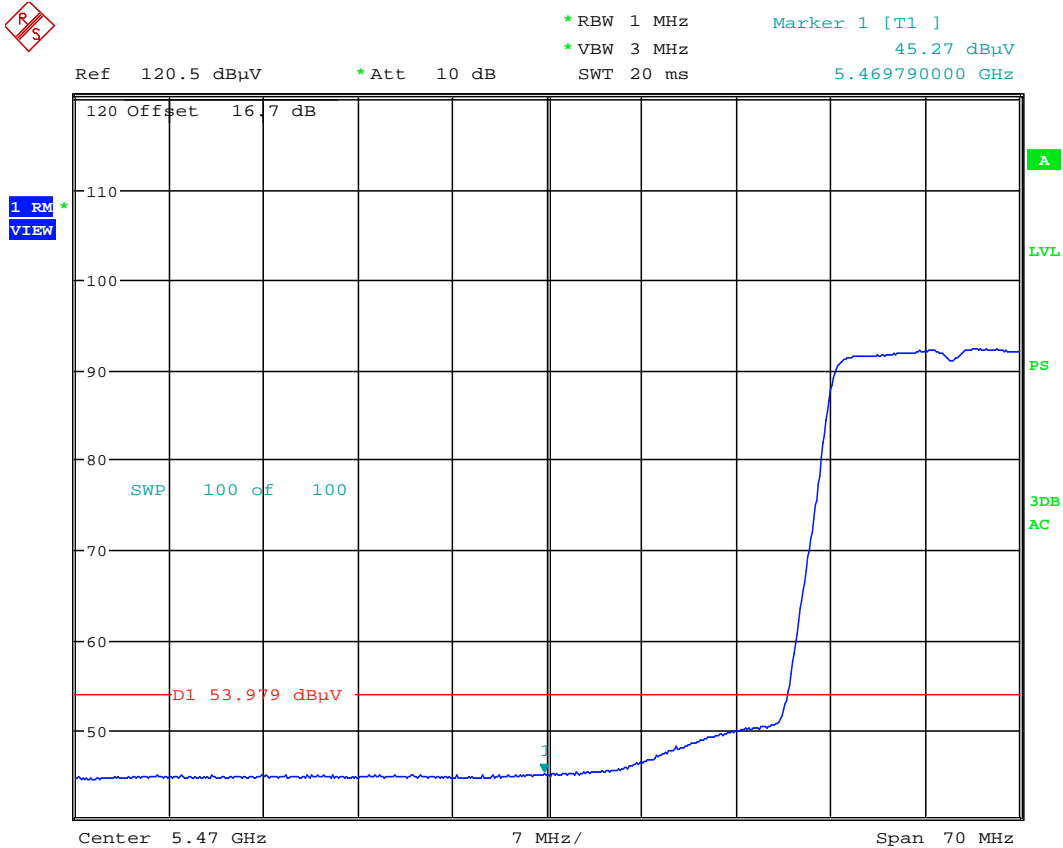


**Plot 6-159. Radiated Restricted Upper Band Edge Plot (Peak – UNII Band 2A)**

<b>FCC ID:</b> A3LSMG900S		<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> 0Y1402030290.A3L	<b>Test Dates:</b> 2/5 - 2/21/2014	<b>EUT Type:</b> Portable Handset	Page 137 of 181	

**Radiated Band Edge Measurements (20MHz BW) (Cont'd)**  
**§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]**

Worst Case Mode: 802.11n (20MHz)  
 Worst Case Transfer Rate: MCS0  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 5500MHz  
 Channel: 100



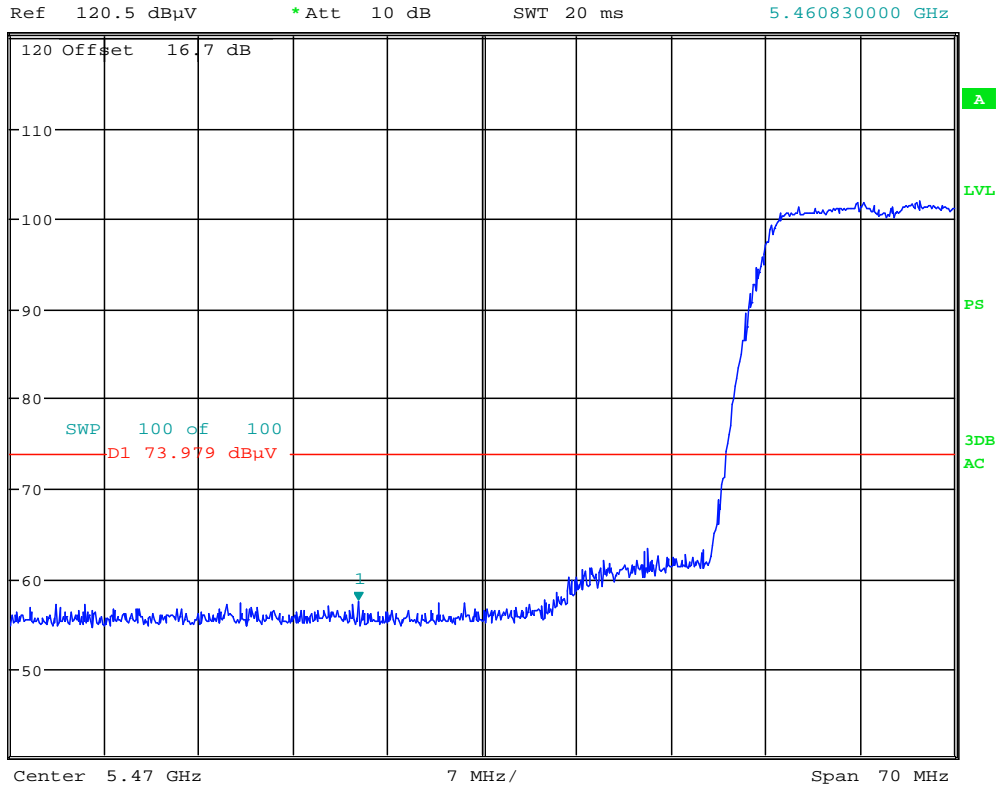
**Plot 6-160. Radiated Restricted Lower Band Edge Plot (Average – UNII Band 2C)**

FCC ID: A3LSMG900S		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1402030290.A3L	Test Dates: 2/5 - 2/21/2014	EUT Type: Portable Handset	Page 138 of 181	

**Radiated Band Edge Measurements (20MHz BW) (Cont'd)**  
**§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]**



\*RBW 1 MHz      Marker 1 [T1 ]  
\*VBW 3 MHz      57.50 dBµV  
SWT 20 ms      5.460830000 GHz



**Plot 6-161. Radiated Restricted Lower Band Edge Plot (Peak – UNII Band 2C)**

<b>FCC ID:</b> A3LSMG900S		<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> 0Y1402030290.A3L	<b>Test Dates:</b> 2/5 - 2/21/2014	<b>EUT Type:</b> Portable Handset	Page 139 of 181	

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

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

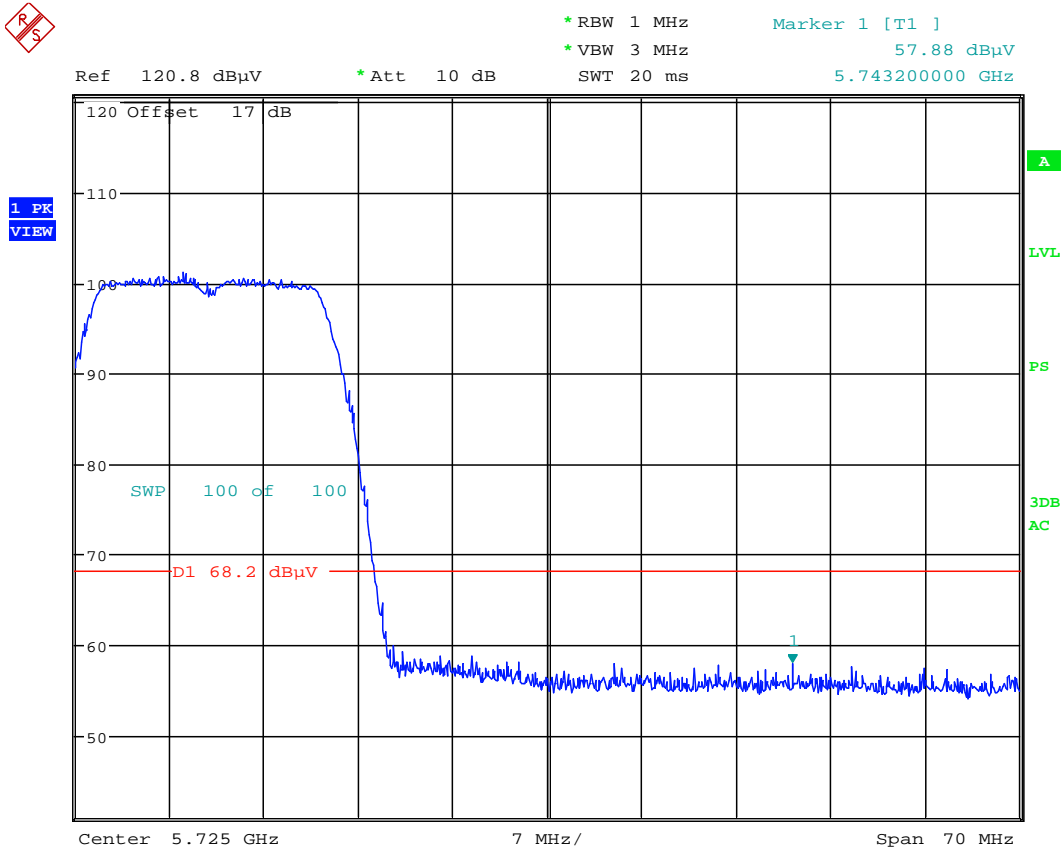
Worst Case Mode: 802.11n (20MHz)

Worst Case Transfer Rate: MCS0

Distance of Measurements: 3 Meters

Operating Frequency: 5700MHz

Channel: 140



**Plot 6-162. Radiated Upper Band Edge Plot (Peak – UNII Band 2C)**

FCC ID: A3LSMG900S		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1402030290.A3L	Test Dates: 2/5 - 2/21/2014	EUT Type: Portable Handset	Page 140 of 181	

# Radiated Band Edge Measurements (40MHz BW)

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

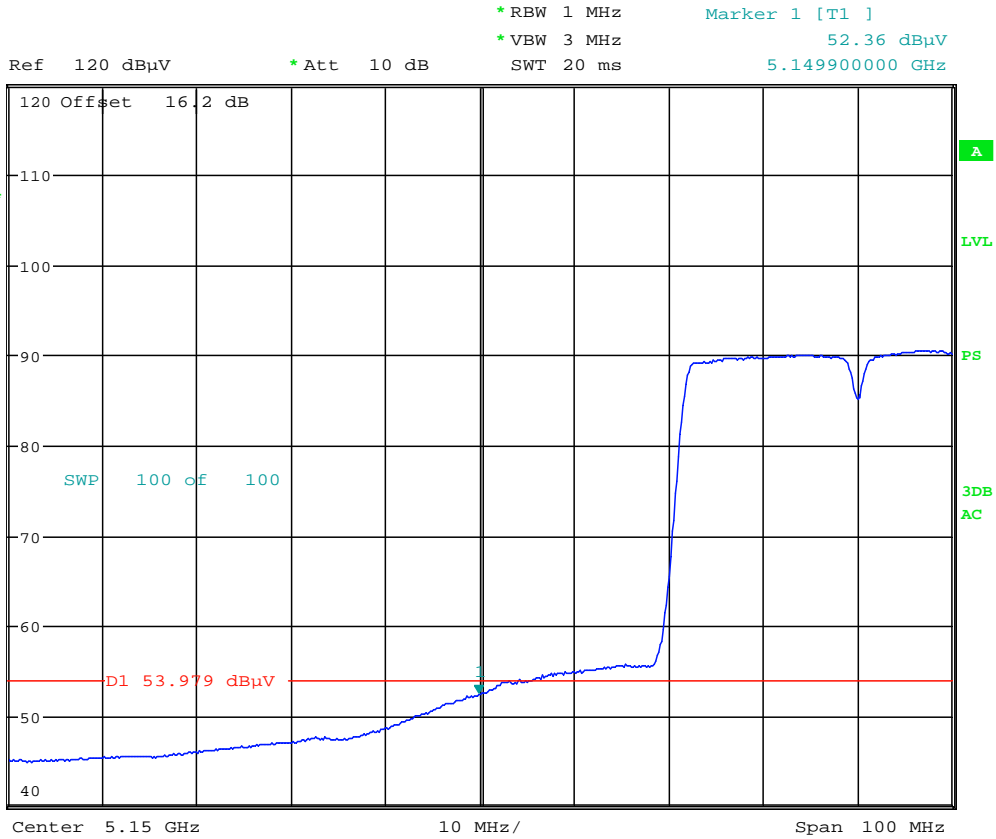
Worst Case Mode: 802.11n (40MHz)

Worst Case Transfer Rate: MCS0

Distance of Measurements: 3 Meters

Operating Frequency: 5190MHz

Channel: 38



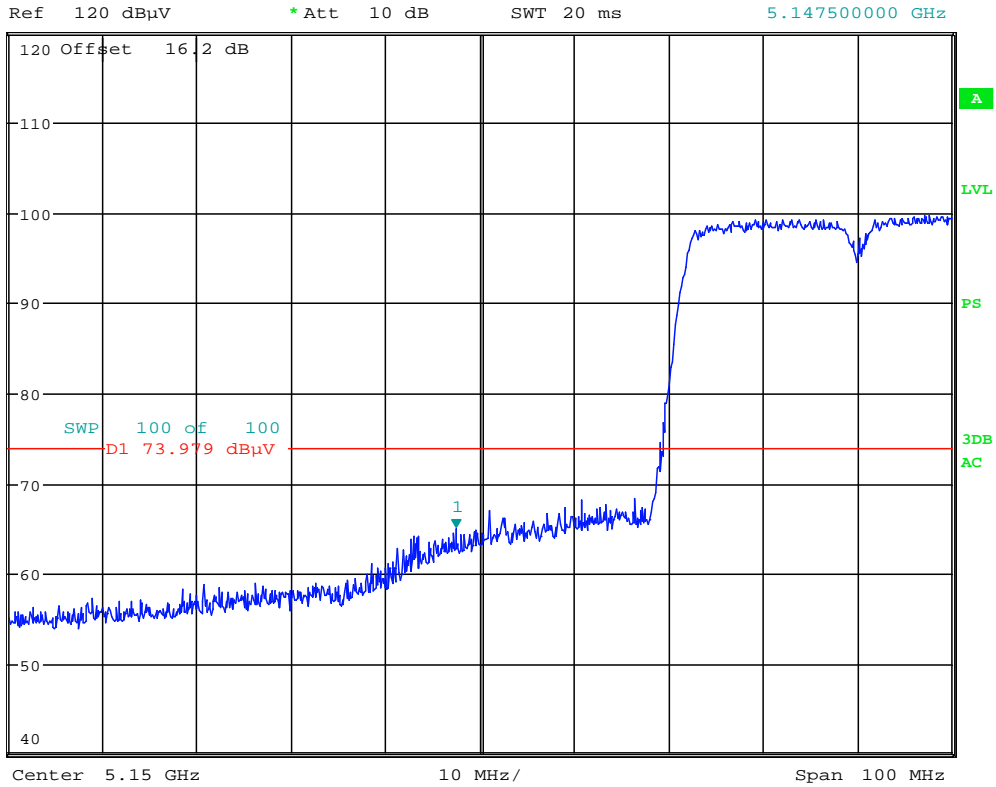
**Plot 6-163. Radiated Restricted Lower Band Edge Plot (Average – UNII Band 1)**

FCC ID: A3LSMG900S		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1402030290.A3L	Test Dates: 2/5 - 2/21/2014	EUT Type: Portable Handset		Page 141 of 181

**Radiated Band Edge Measurements (40MHz BW) (Cont'd)**  
**§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]**



\*RBW 1 MHz      Marker 1 [T1 ]  
\*VBW 3 MHz      64.98 dBμV  
SWT 20 ms      5.147500000 GHz



**Plot 6-164. Radiated Restricted Lower Band Edge Plot (Peak – UNII Band 1)**

FCC ID: A3LSMG900S		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1402030290.A3L	Test Dates: 2/5 - 2/21/2014	EUT Type: Portable Handset	Page 142 of 181	

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

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

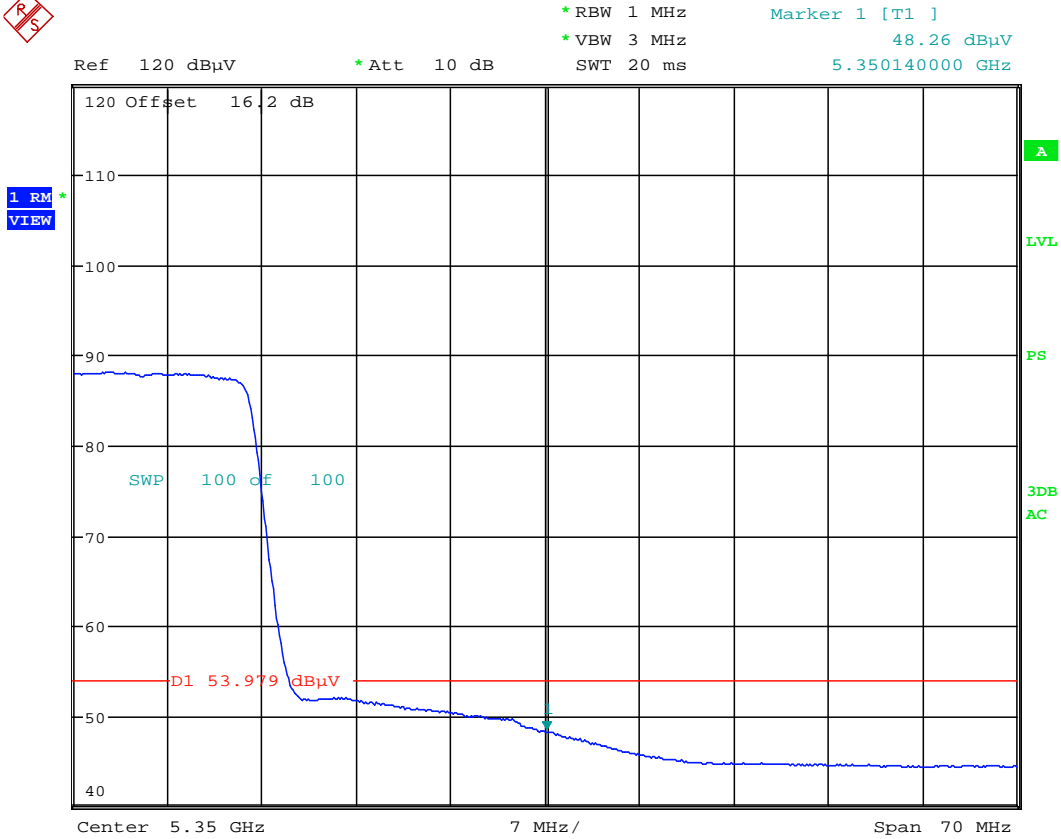
Worst Case Mode: 802.11n (40MHz)

Worst Case Transfer Rate: MCS0

Distance of Measurements: 3 Meters

Operating Frequency: 5310MHz

Channel: 62



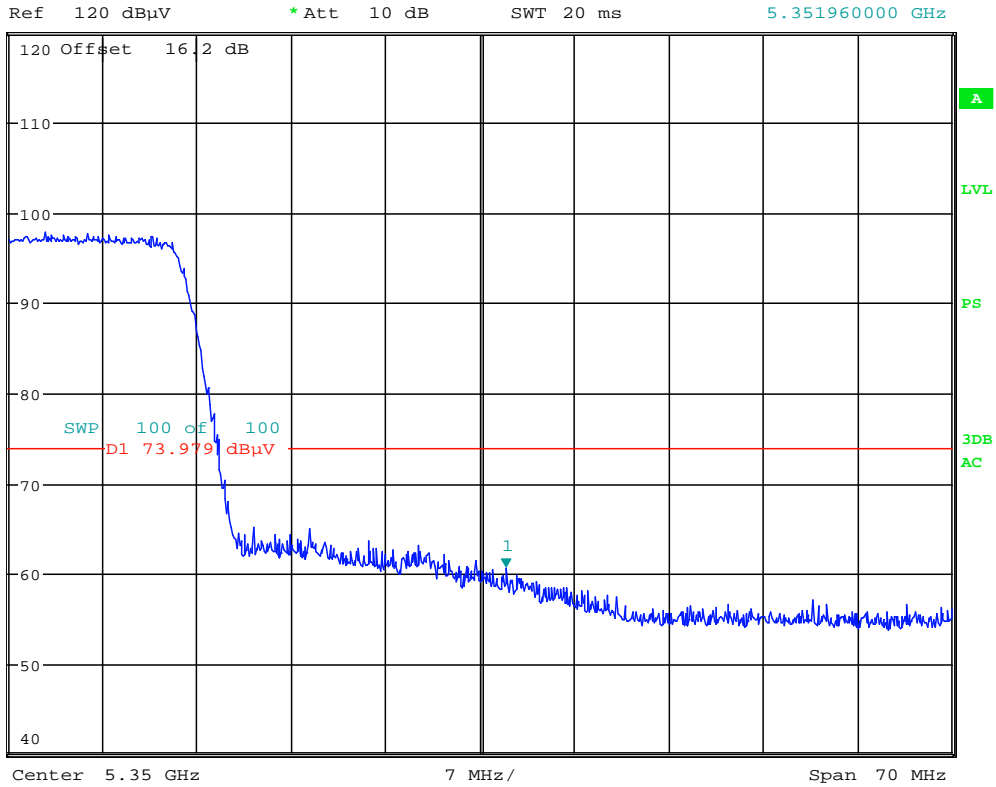
**Plot 6-165. Radiated Restricted Upper Band Edge Plot (Average – UNII Band 2A)**

FCC ID: A3LSMG900S		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1402030290.A3L	Test Dates: 2/5 - 2/21/2014	EUT Type: Portable Handset		Page 143 of 181

**Radiated Band Edge Measurements (40MHz BW) (Cont'd)**  
§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]



\*RBW 1 MHz      Marker 1 [T1 ]  
\*VBW 3 MHz      60.52 dBµV  
SWT 20 ms      5.351960000 GHz



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

FCC ID: A3LSMG900S		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1402030290.A3L	Test Dates: 2/5 - 2/21/2014	EUT Type: Portable Handset	Page 144 of 181	

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

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

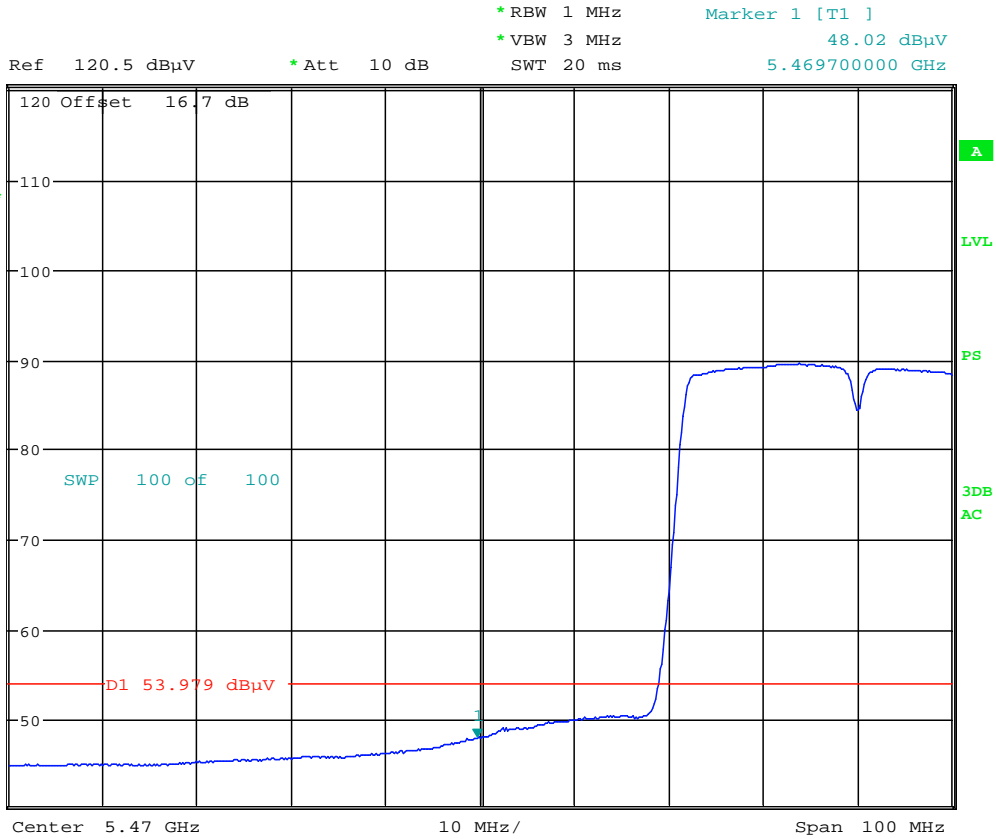
Worst Case Mode: 802.11n (40MHz)

Worst Case Transfer Rate: MCS0

Distance of Measurements: 3 Meters

Operating Frequency: 5510MHz

Channel: 102



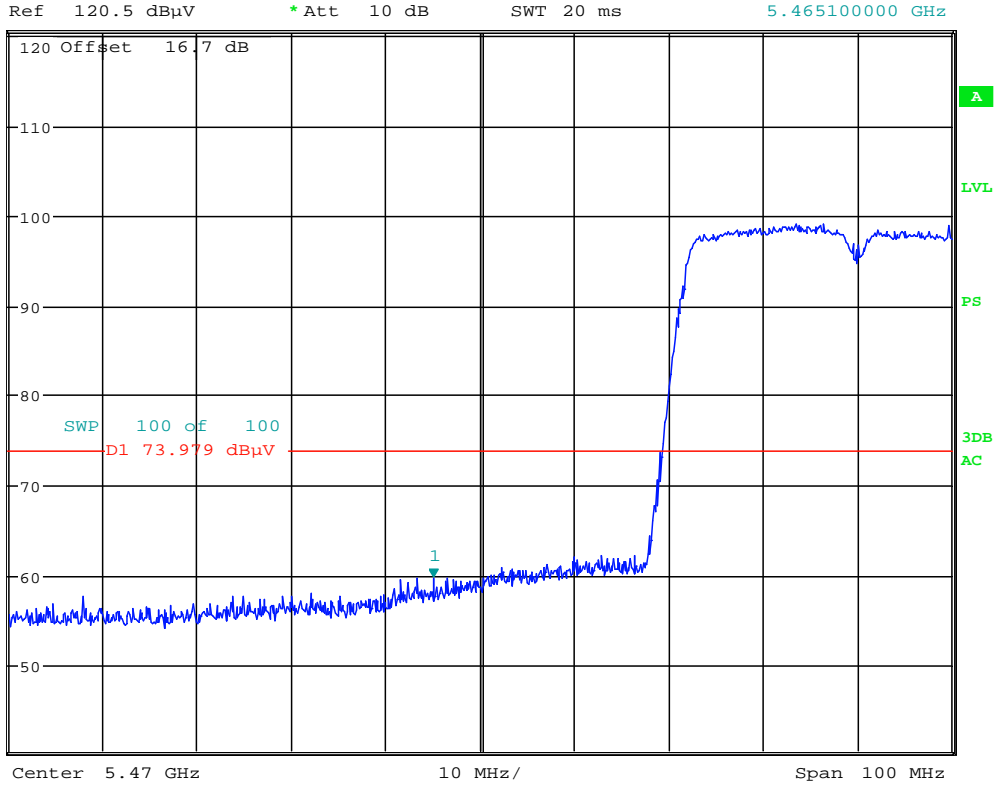
**Plot 6-167. Radiated Restricted Lower Band Edge Plot (Average – UNII Band 2C)**

FCC ID: A3LSMG900S		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1402030290.A3L	Test Dates: 2/5 - 2/21/2014	EUT Type: Portable Handset	Page 145 of 181	

**Radiated Band Edge Measurements (40MHz BW) (Cont'd)**  
§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]



\*RBW 1 MHz      Marker 1 [T1 ]  
\*VBW 3 MHz      59.77 dBµV  
SWT 20 ms      5.465100000 GHz



**Plot 6-168. Radiated Restricted Lower Band Edge Plot (Peak – UNII Band 2C)**

FCC ID: A3LSMG900S	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1402030290.A3L	Test Dates: 2/5 - 2/21/2014	EUT Type: Portable Handset	Page 146 of 181	

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

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

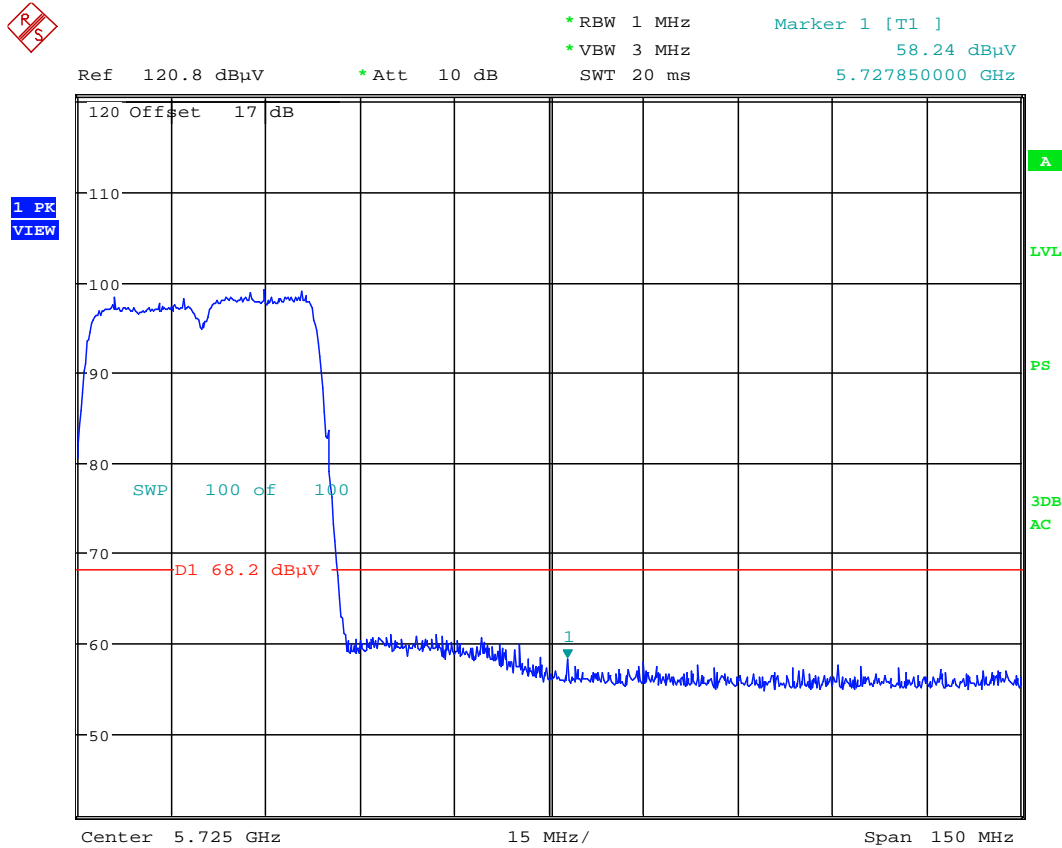
Worst Case Mode: 802.11n (40MHz)

Worst Case Transfer Rate: MCS0

Distance of Measurements: 3 Meters

Operating Frequency: 5670MHz

Channel: 134

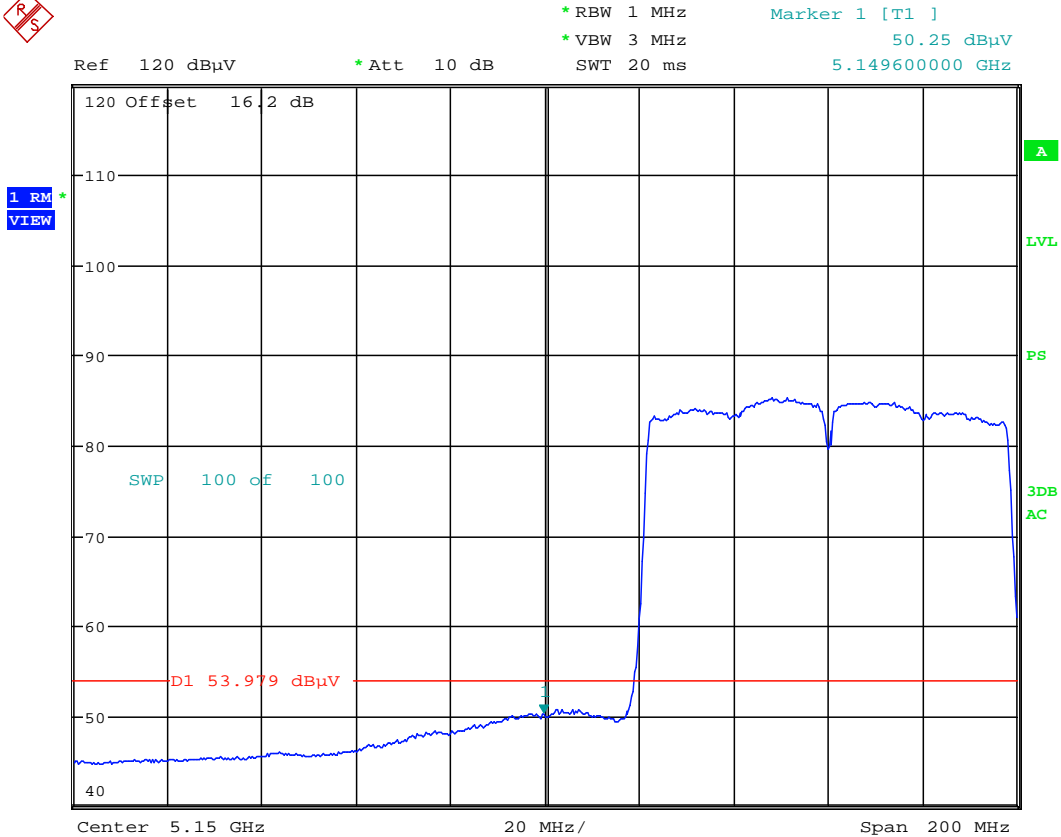


**Plot 6-169. Radiated Upper Band Edge Plot (Peak – UNII Band 2C)**

FCC ID: A3LSMG900S		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1402030290.A3L	Test Dates: 2/5 - 2/21/2014	EUT Type: Portable Handset		Page 147 of 181

## Radiated Band Edge Measurements (80MHz BW) §15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]

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



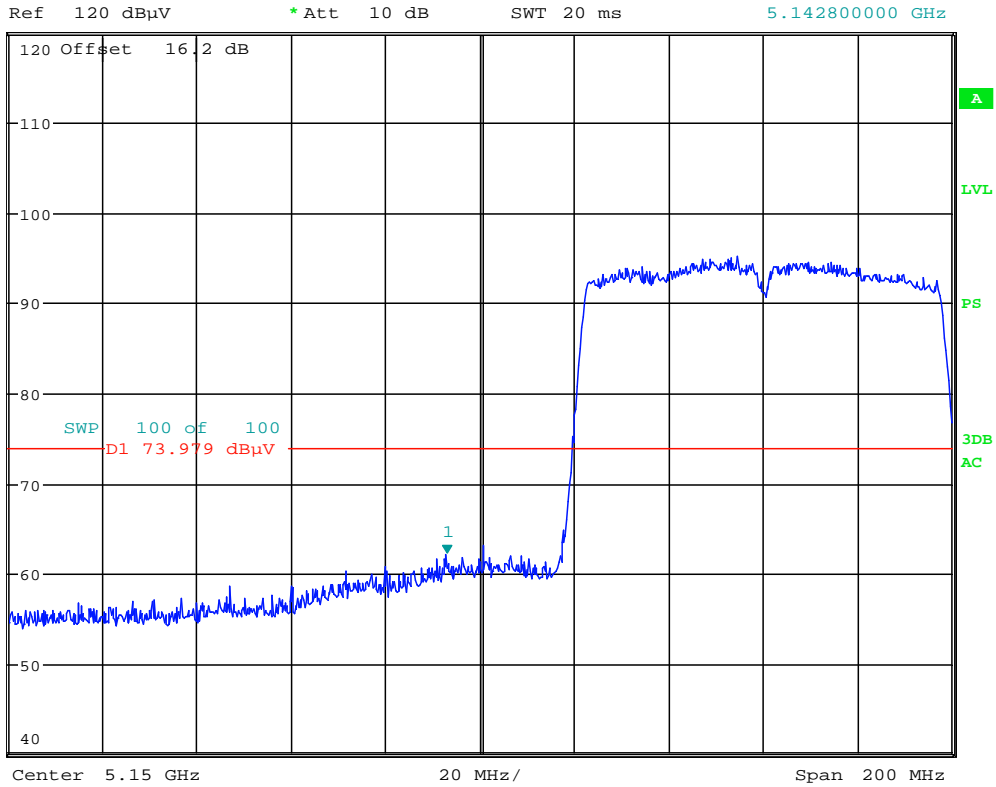
**Plot 6-170. Radiated Restricted Lower Band Edge Plot (Average – UNII Band 1)**

FCC ID: A3LSMG900S		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1402030290.A3L	Test Dates: 2/5 - 2/21/2014	EUT Type: Portable Handset	Page 148 of 181	

**Radiated Band Edge Measurements (80MHz BW) (Cont'd)**  
§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]



\*RBW 1 MHz      Marker 1 [T1 ]  
\*VBW 3 MHz      62.15 dBµV  
SWT 20 ms      5.142800000 GHz



**Plot 6-171. Radiated Restricted Lower Band Edge Plot (Peak – UNII Band 1)**

FCC ID: A3LSMG900S		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1402030290.A3L	Test Dates: 2/5 - 2/21/2014	EUT Type: Portable Handset	Page 149 of 181	

### Radiated Band Edge Measurements (80MHz BW) (Cont'd)

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

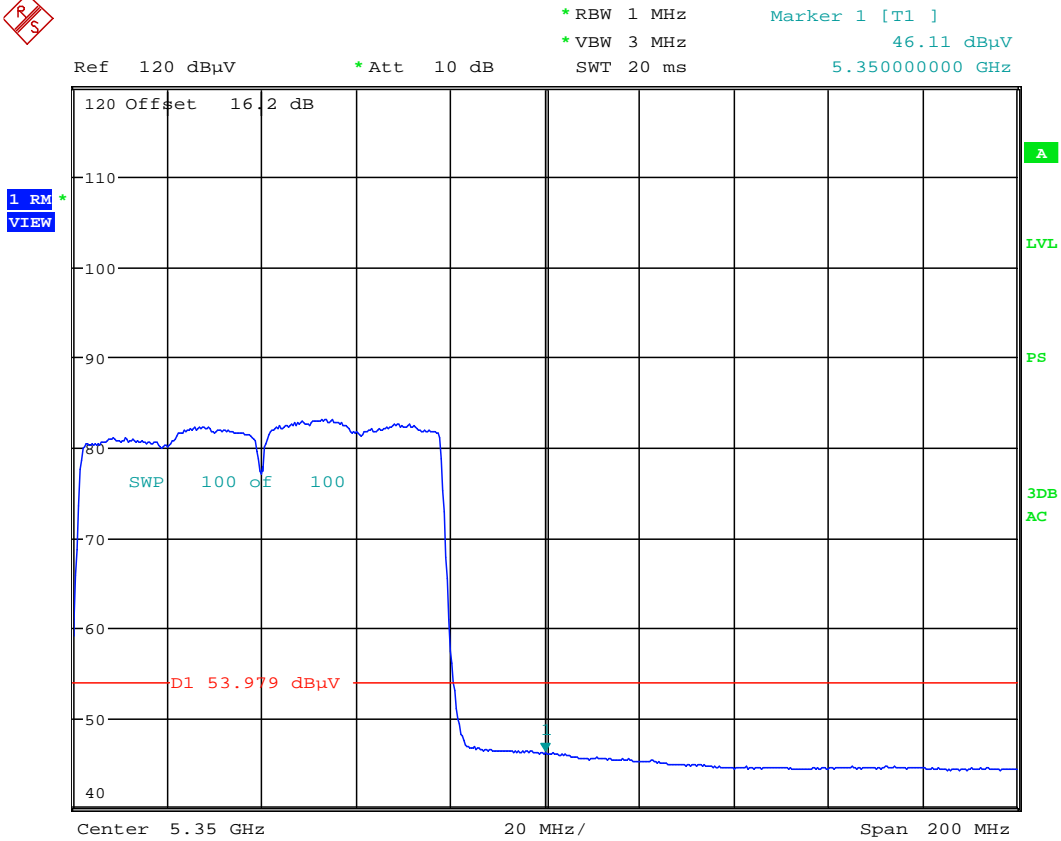
Worst Case Mode: 802.11ac (80MHz)

Worst Case Transfer Rate: MCS0

Distance of Measurements: 3 Meters

Operating Frequency: 5290MHz

Channel: 58



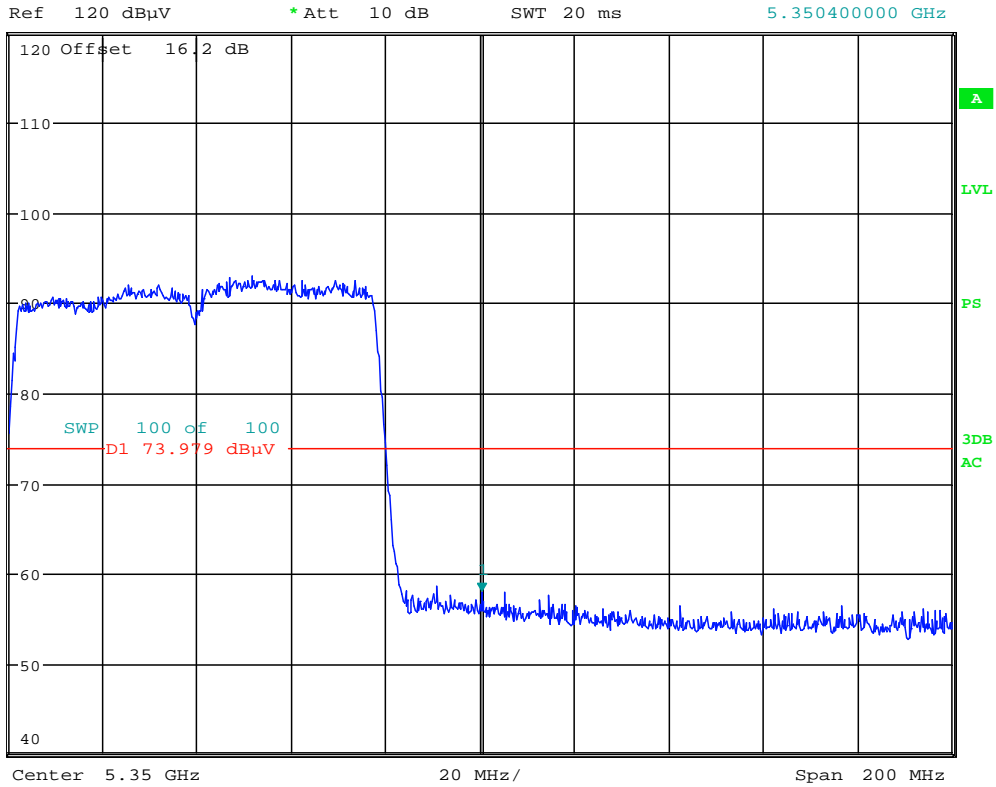
**Plot 6-172. Radiated Restricted Upper Band Edge Plot (Average – UNII Band 2A)**

FCC ID: A3LSMG900S		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1402030290.A3L	Test Dates: 2/5 - 2/21/2014	EUT Type: Portable Handset		Page 150 of 181

**Radiated Band Edge Measurements (80MHz BW) (Cont'd)**  
§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]



\*RBW 1 MHz      Marker 1 [T1 ]  
\*VBW 3 MHz      57.96 dBµV  
SWT 20 ms      5.350400000 GHz

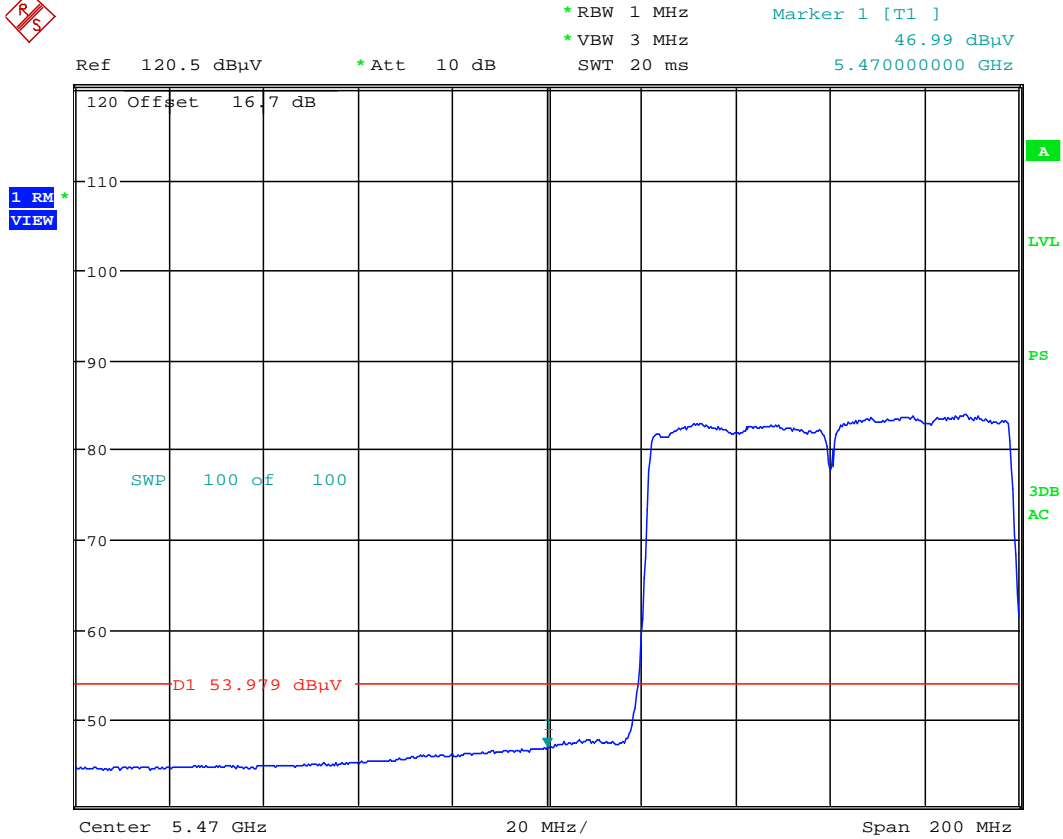


**Plot 6-173. Radiated Restricted Upper Band Edge Plot (Peak – UNII Band 2A)**

FCC ID: A3L5MG900S		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1402030290.A3L	Test Dates: 2/5 - 2/21/2014	EUT Type: Portable Handset	Page 151 of 181	

**Radiated Band Edge Measurements (80MHz BW) (Cont'd)**  
**§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]**

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



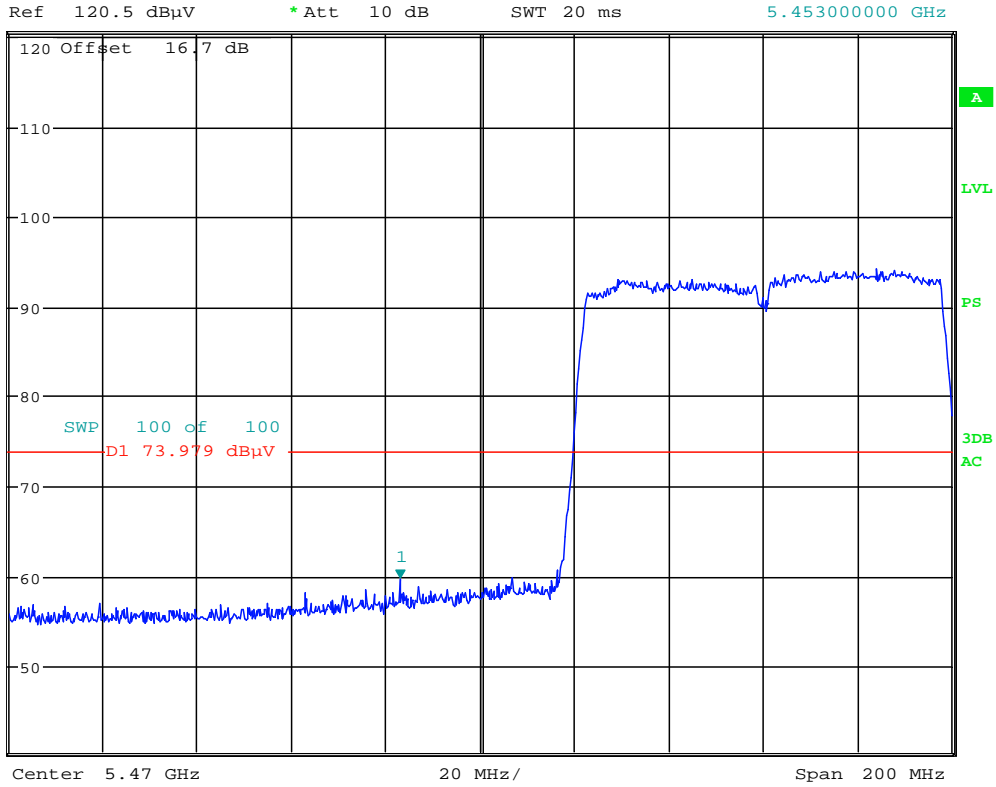
**Plot 6-174. Radiated Restricted Lower Band Edge Plot (Average – UNII Band 2C)**

FCC ID: A3LSMG900S		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1402030290.A3L	Test Dates: 2/5 - 2/21/2014	EUT Type: Portable Handset		Page 152 of 181

**Radiated Band Edge Measurements (80MHz BW) (Cont'd)**  
§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]



\*RBW 1 MHz      Marker 1 [T1 ]  
\*VBW 3 MHz      59.71 dBµV  
SWT 20 ms      5.453000000 GHz

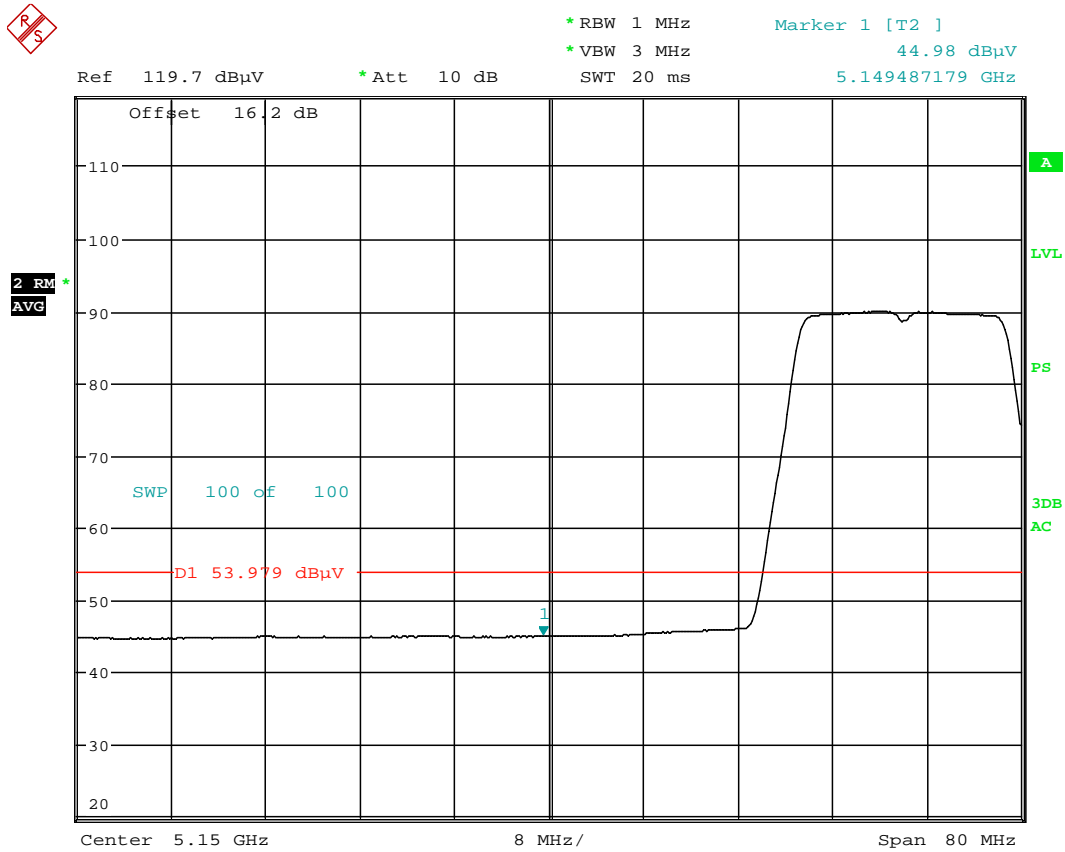


**Plot 6-175. Radiated Restricted Lower Band Edge Plot (Peak – UNII Band 2C)**

FCC ID: A3L5MG900S		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1402030290.A3L	Test Dates: 2/5 - 2/21/2014	EUT Type: Portable Handset	Page 153 of 181	

## 6.10 MIMO Radiated Band Edge Measurements

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



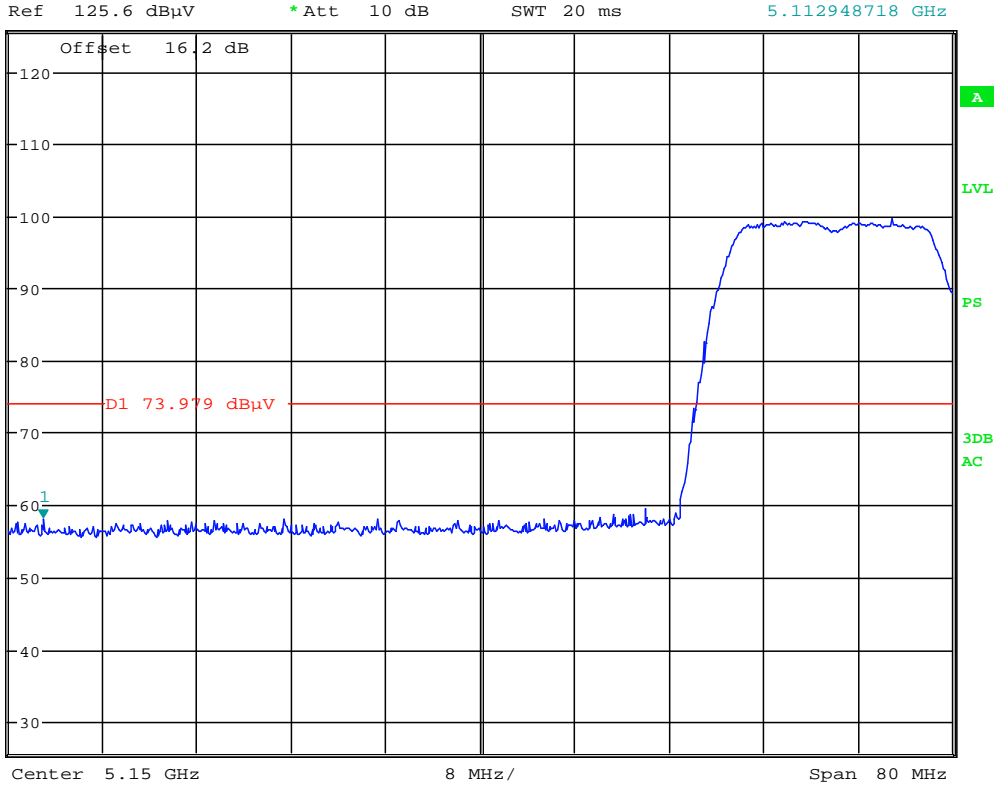
**Plot 6-176. Radiated Restricted Lower Band Edge Plot (Average – UNII Band 1)**

FCC ID: A3LSMG900S		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1402030290.A3L	Test Dates: 2/5 - 2/21/2014	EUT Type: Portable Handset	Page 154 of 181	

**Radiated Band Edge Measurements (20MHz BW) (Cont'd)**  
**§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]**



\*RBW 1 MHz      Marker 1 [T1 ]  
\*VBW 3 MHz      58.10 dBμV  
SWT 20 ms      5.112948718 GHz

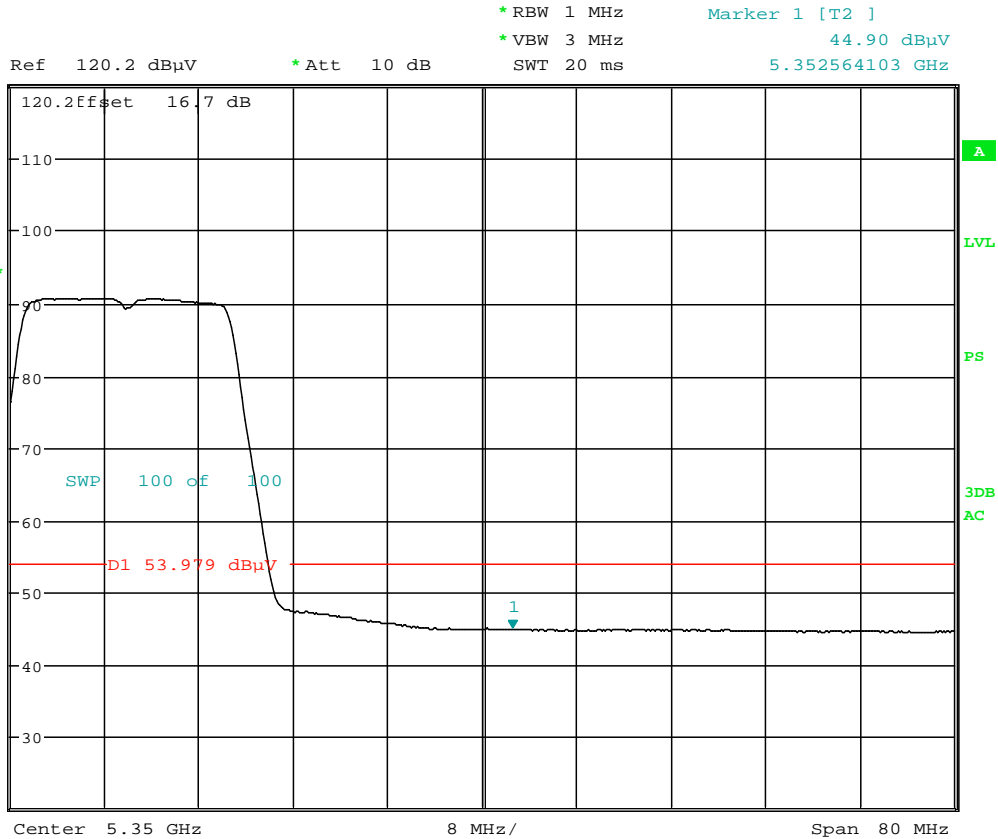


**Plot 6-177. Radiated Restricted Lower Band Edge Plot (Peak – UNII Band 1)**

FCC ID: A3L5MG900S		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1402030290.A3L	Test Dates: 2/5 - 2/21/2014	EUT Type: Portable Handset	Page 155 of 181	

**Radiated Band Edge Measurements (20MHz BW) (Cont'd)**  
§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]

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



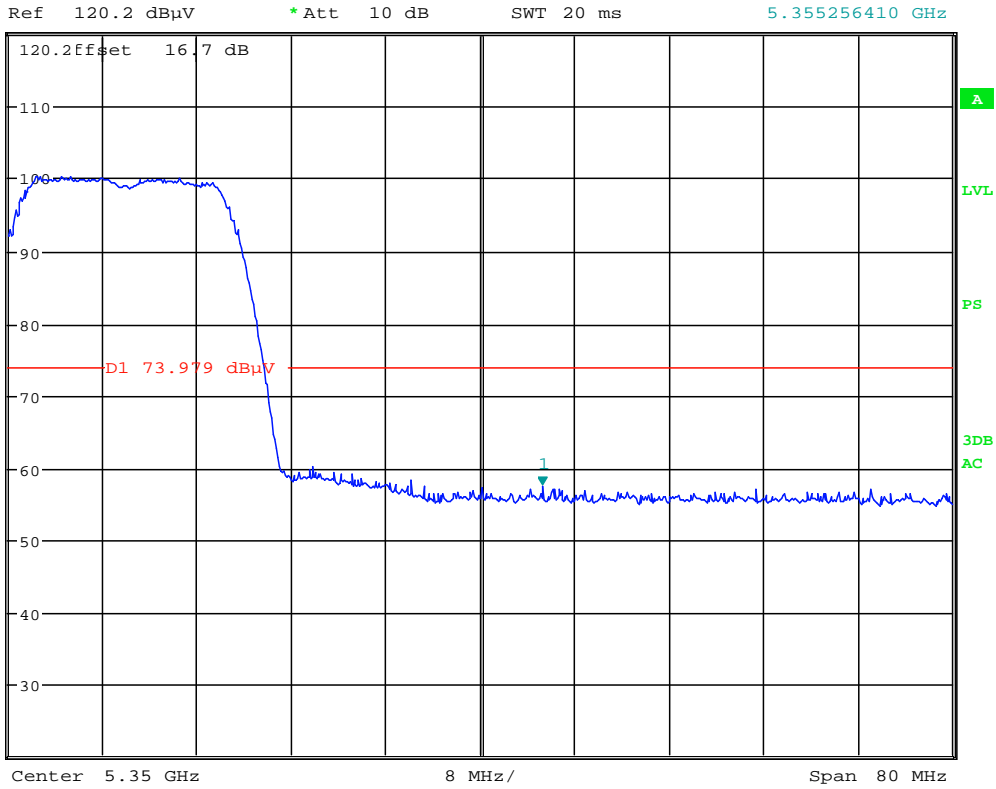
**Plot 6-178. Radiated Restricted Upper Band Edge Plot (Average – UNII Band 2A)**

FCC ID: A3LSMG900S		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1402030290.A3L	Test Dates: 2/5 - 2/21/2014	EUT Type: Portable Handset		Page 156 of 181

**Radiated Band Edge Measurements (20MHz BW) (Cont'd)**  
**§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]**



\*RBW 1 MHz      Marker 1 [T1 ]  
\*VBW 3 MHz      57.54 dBµV  
SWT 20 ms      5.355256410 GHz



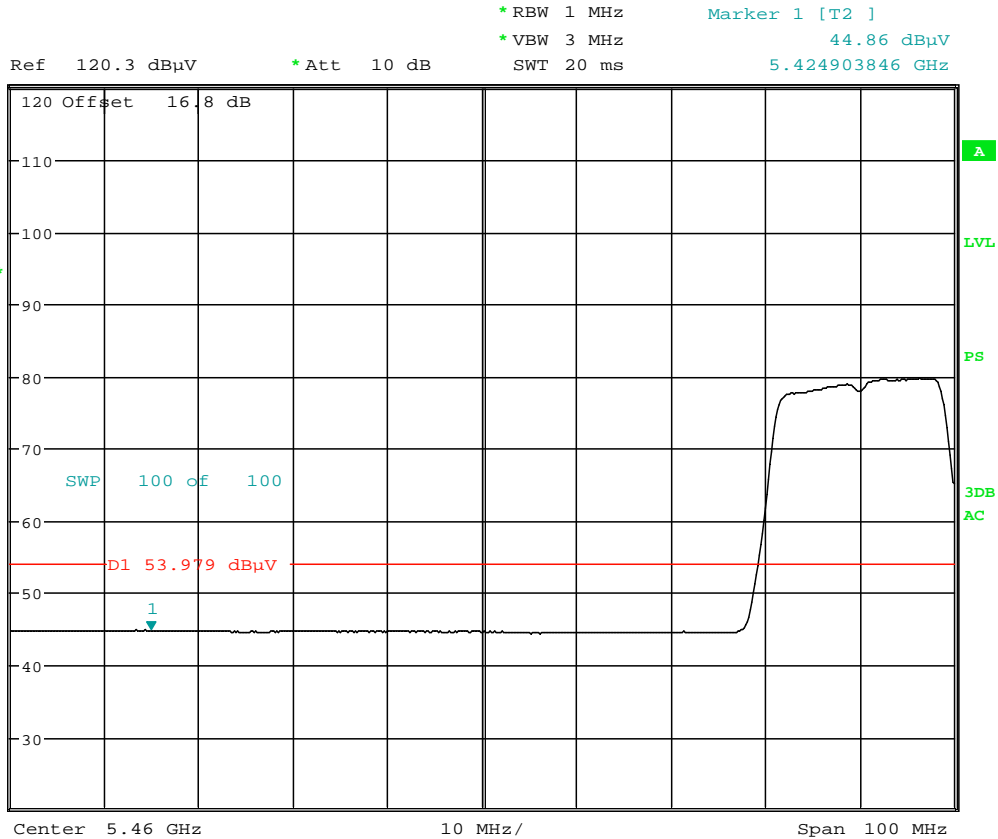
**Plot 6-179. Radiated Restricted Upper Band Edge Plot (Peak – UNII Band 2A)**

<b>FCC ID:</b> A3LSMG900S		<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> 0Y1402030290.A3L	<b>Test Dates:</b> 2/5 - 2/21/2014	<b>EUT Type:</b> Portable Handset	Page 157 of 181	

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

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

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



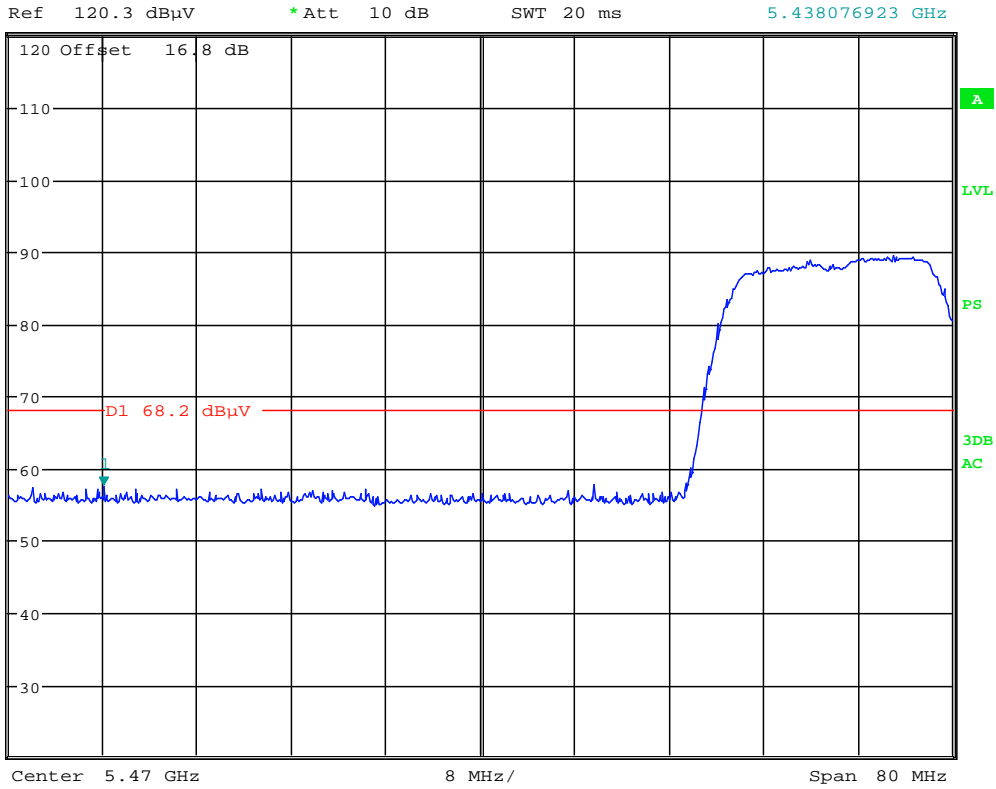
**Plot 6-180. Radiated Restricted Lower Band Edge Plot (Average – UNII Band 2C)**

FCC ID: A3LSMG900S		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1402030290.A3L	Test Dates: 2/5 - 2/21/2014	EUT Type: Portable Handset		Page 158 of 181

**Radiated Band Edge Measurements (20MHz BW) (Cont'd)**  
**§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]**



\*RBW 1 MHz      Marker 1 [T1 ]  
\*VBW 3 MHz      57.51 dBµV  
SWT 20 ms      5.438076923 GHz

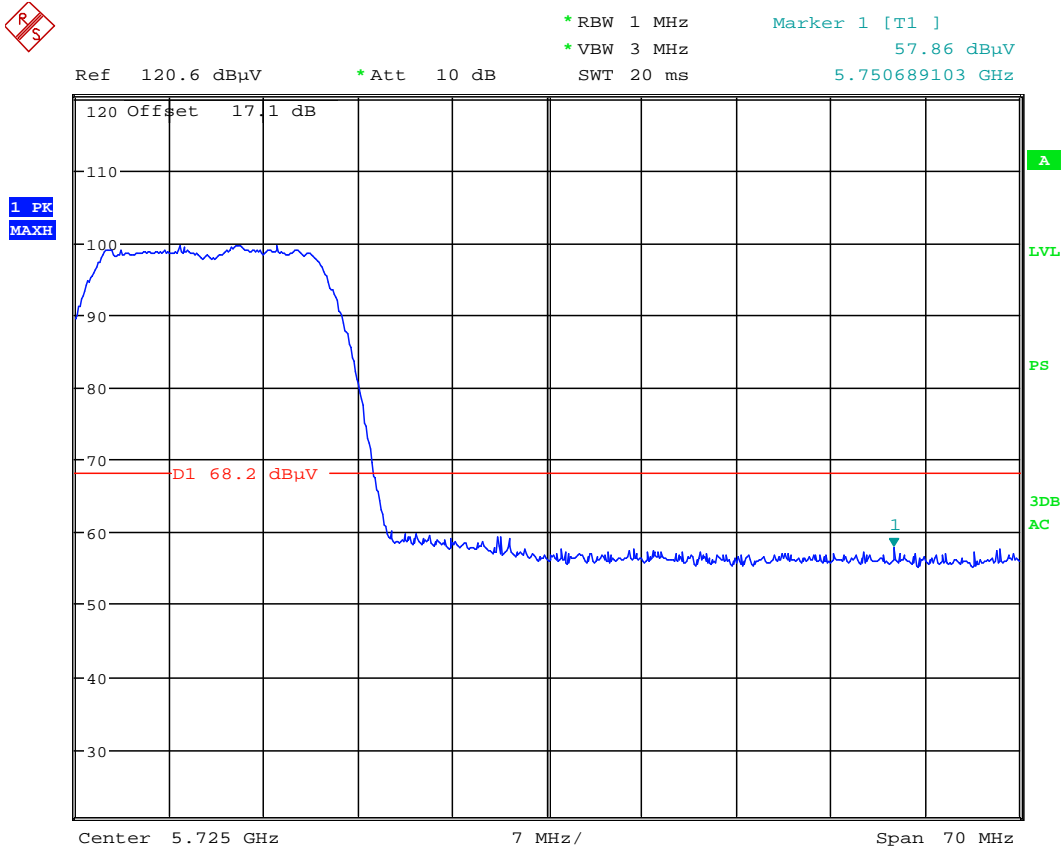


**Plot 6-181. Radiated Restricted Lower Band Edge Plot (Peak – UNII Band 2C)**

<b>FCC ID:</b> A3LSMG900S		<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> 0Y1402030290.A3L	<b>Test Dates:</b> 2/5 - 2/21/2014	<b>EUT Type:</b> Portable Handset	Page 159 of 181	

**Radiated Band Edge Measurements (20MHz BW) (Cont'd)**  
**§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]**

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



**Plot 6-182. Radiated Upper Band Edge Plot (Peak – UNII Band 2C)**

FCC ID: A3LSMG900S		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1402030290.A3L	Test Dates: 2/5 - 2/21/2014	EUT Type: Portable Handset		Page 160 of 181

# Radiated Band Edge Measurements (40MHz BW)

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

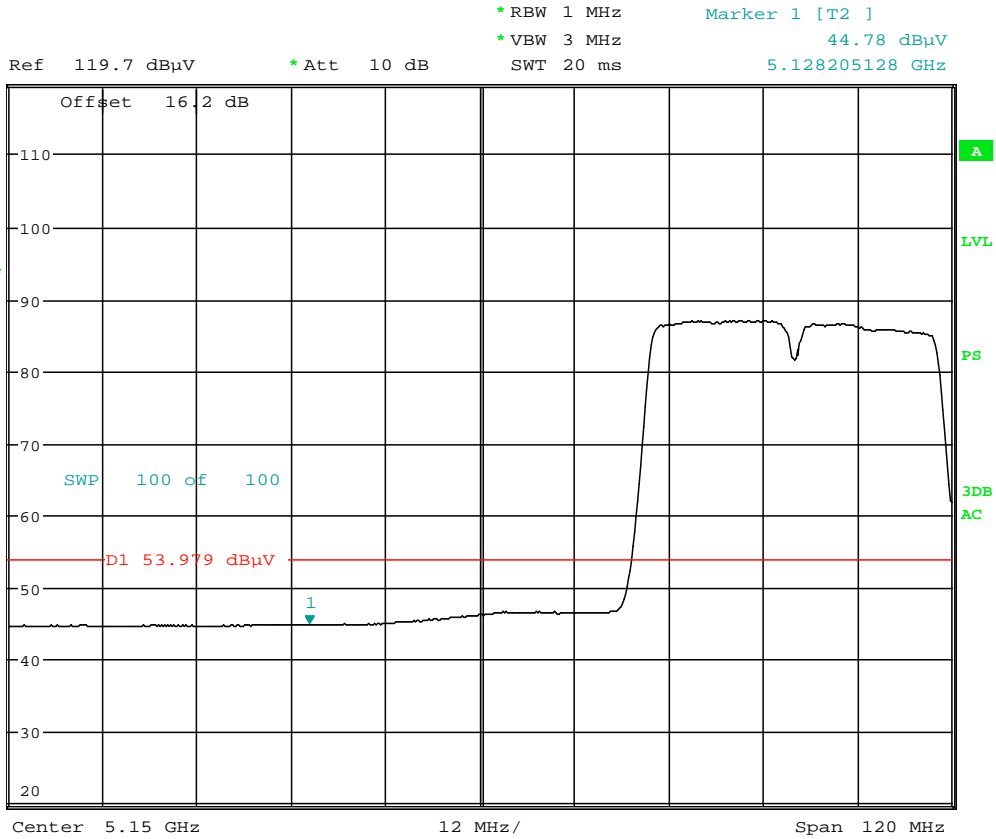
Worst Case Mode: 802.11n (40MHz)

Worst Case Transfer Rate: MCS8

Distance of Measurements: 3 Meters

Operating Frequency: 5190MHz

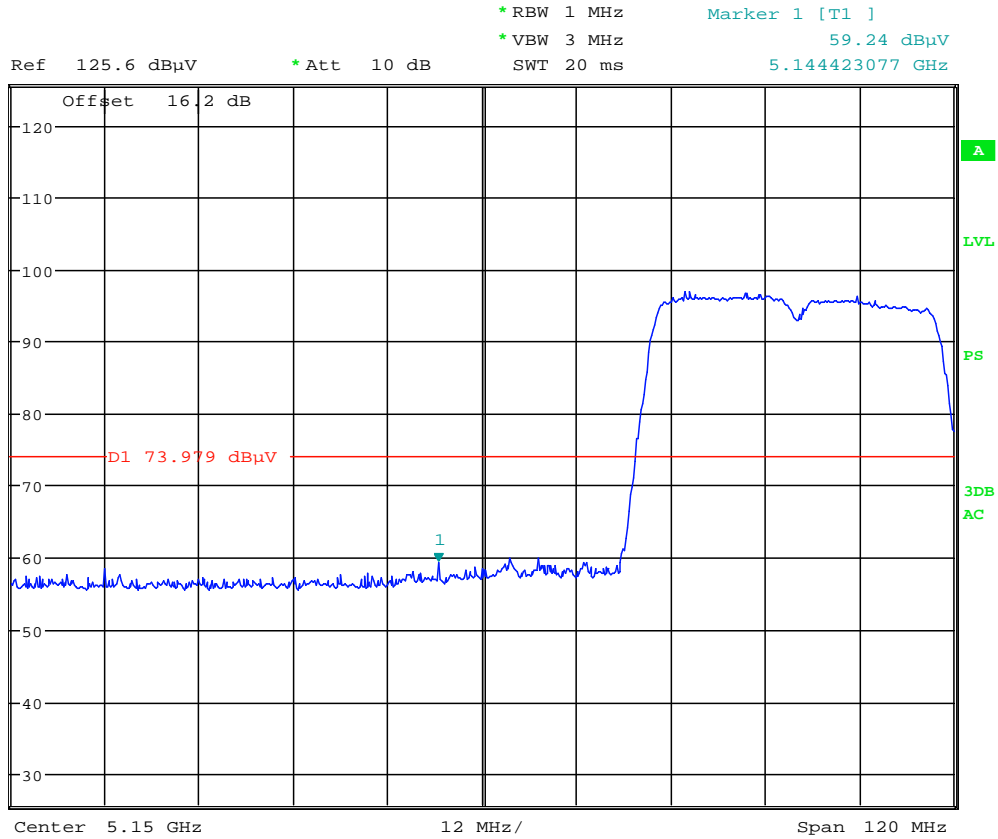
Channel: 38



**Plot 6-183. Radiated Restricted Lower Band Edge Plot (Average – UNII Band 1)**

FCC ID: A3LSMG900S		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1402030290.A3L	Test Dates: 2/5 - 2/21/2014	EUT Type: Portable Handset	Page 161 of 181	

**Radiated Band Edge Measurements (40MHz BW) (Cont'd)**  
**§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]**

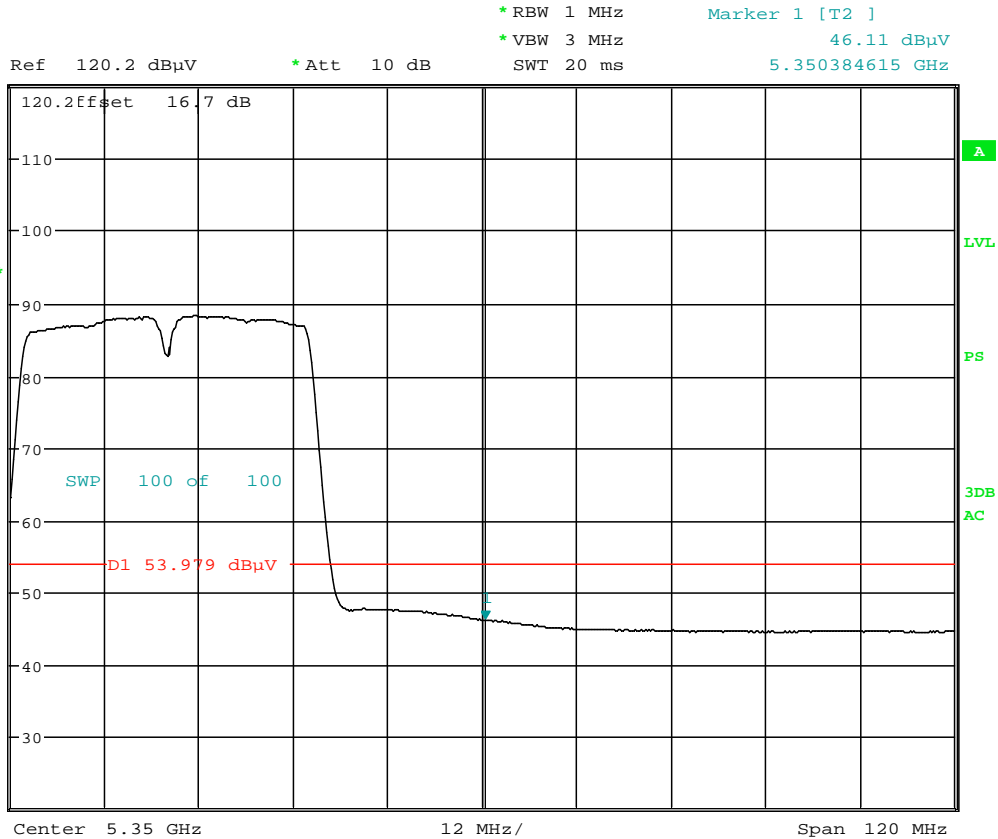


**Plot 6-184. Radiated Restricted Lower Band Edge Plot (Peak – UNII Band 1)**

FCC ID: A3LSMG900S		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1402030290.A3L	Test Dates: 2/5 - 2/21/2014	EUT Type: Portable Handset	Page 162 of 181	

**Radiated Band Edge Measurements (40MHz BW) (Cont'd)**  
§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]

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



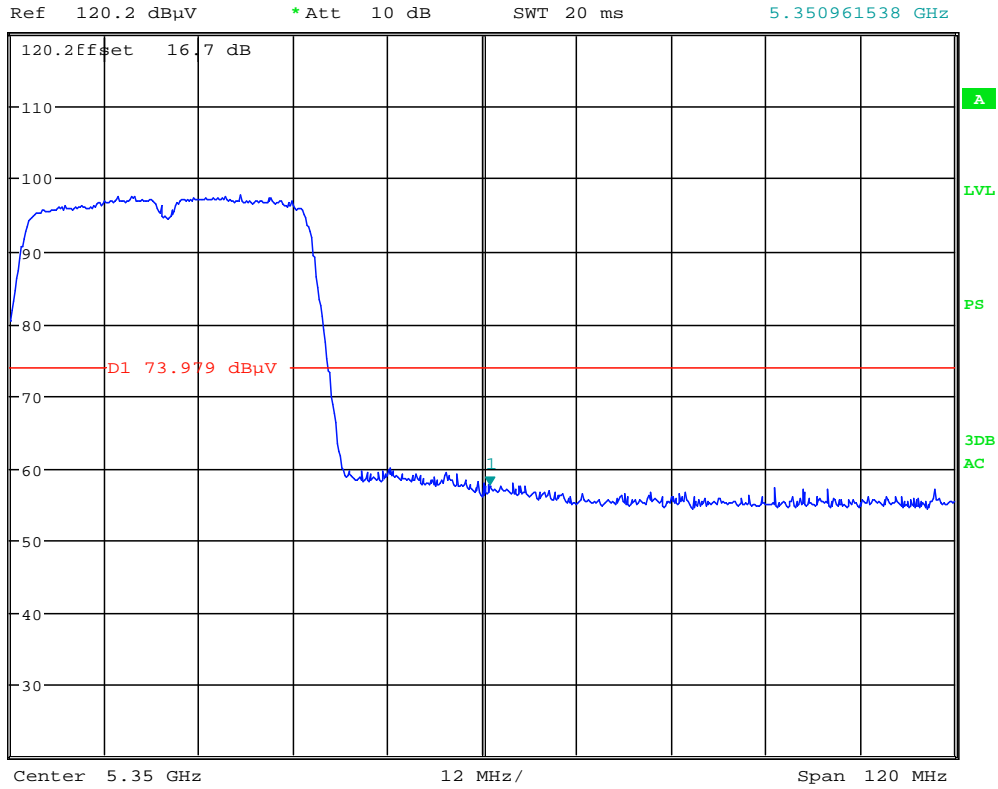
**Plot 6-185. Radiated Restricted Upper Band Edge Plot (Average – UNII Band 2A)**

FCC ID: A3LSMG900S		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1402030290.A3L	Test Dates: 2/5 - 2/21/2014	EUT Type: Portable Handset	Page 163 of 181	

**Radiated Band Edge Measurements (40MHz BW) (Cont'd)**  
**§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]**



\*RBW 1 MHz      Marker 1 [T1 ]  
\*VBW 3 MHz      57.46 dBµV  
SWT 20 ms      5.350961538 GHz



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

FCC ID: A3LSMG900S		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1402030290.A3L	Test Dates: 2/5 - 2/21/2014	EUT Type: Portable Handset	Page 164 of 181	

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

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

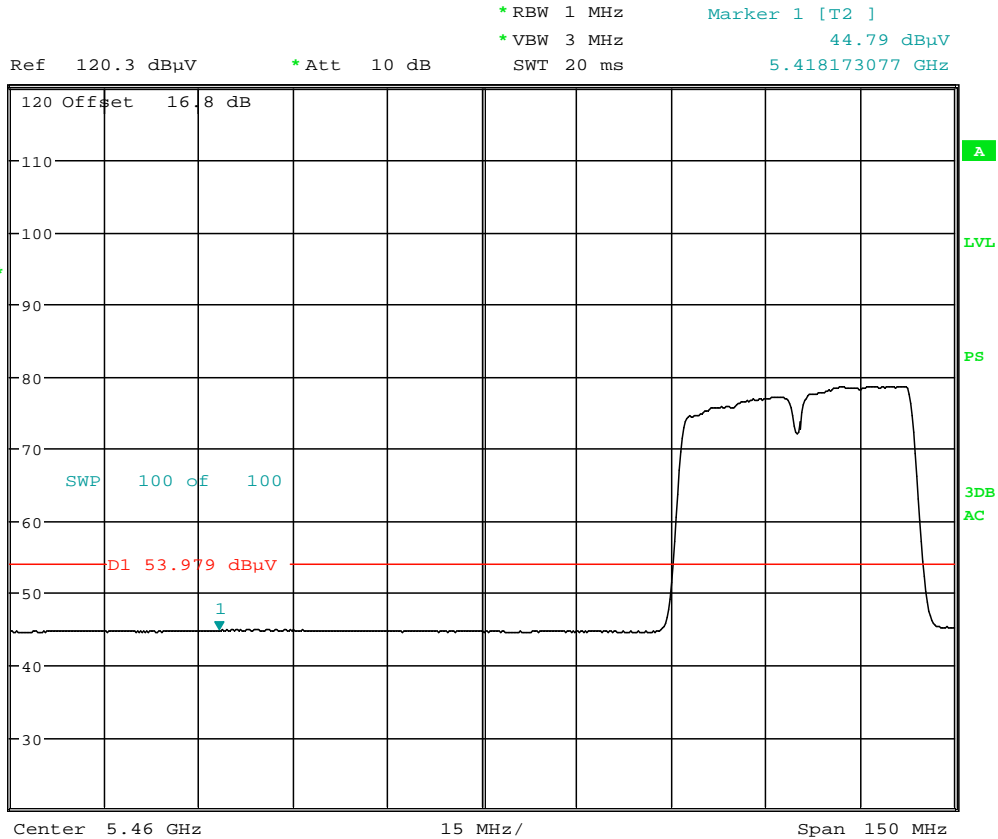
Worst Case Mode: 802.11n (40MHz)

Worst Case Transfer Rate: MCS8

Distance of Measurements: 3 Meters

Operating Frequency: 5510MHz

Channel: 102



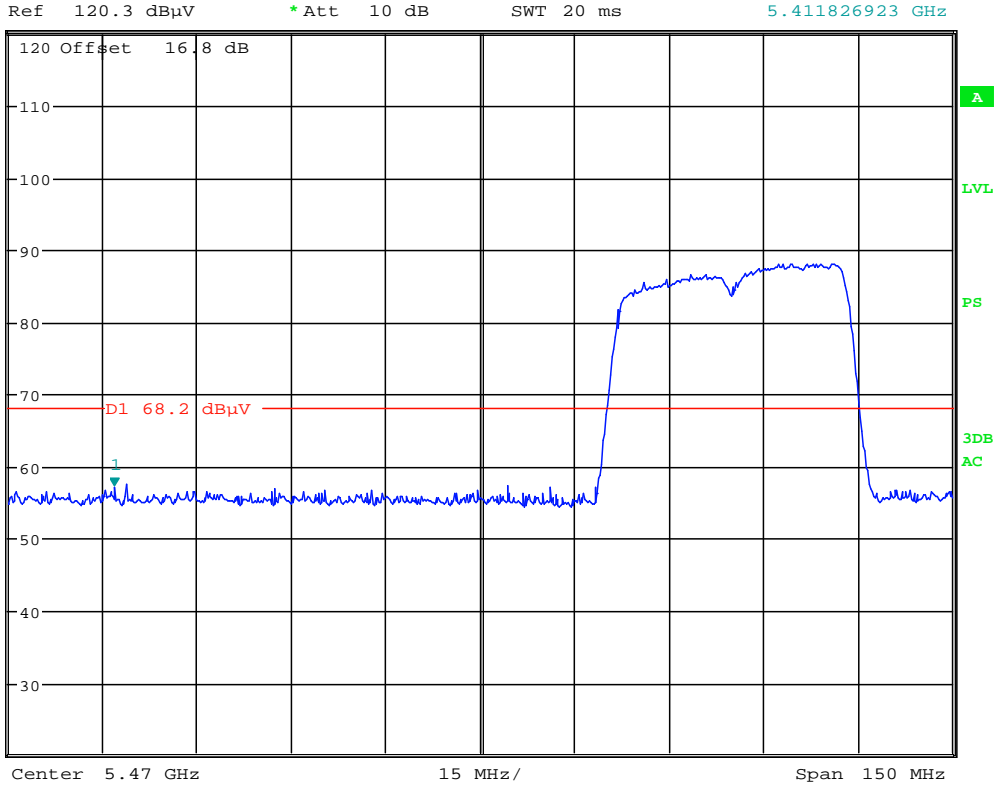
**Plot 6-187. Radiated Restricted Lower Band Edge Plot (Average – UNII Band 2C)**

FCC ID: A3LSMG900S		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1402030290.A3L	Test Dates: 2/5 - 2/21/2014	EUT Type: Portable Handset	Page 165 of 181	

**Radiated Band Edge Measurements (40MHz BW) (Cont'd)**  
**§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]**



\*RBW 1 MHz      Marker 1 [T1 ]  
\*VBW 3 MHz      57.25 dBμV  
SWT 20 ms      5.411826923 GHz



**Plot 6-188. Radiated Restricted Lower Band Edge Plot (Peak – UNII Band 2C)**

FCC ID: A3LSMG900S	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1402030290.A3L	Test Dates: 2/5 - 2/21/2014	EUT Type: Portable Handset	Page 166 of 181	

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

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

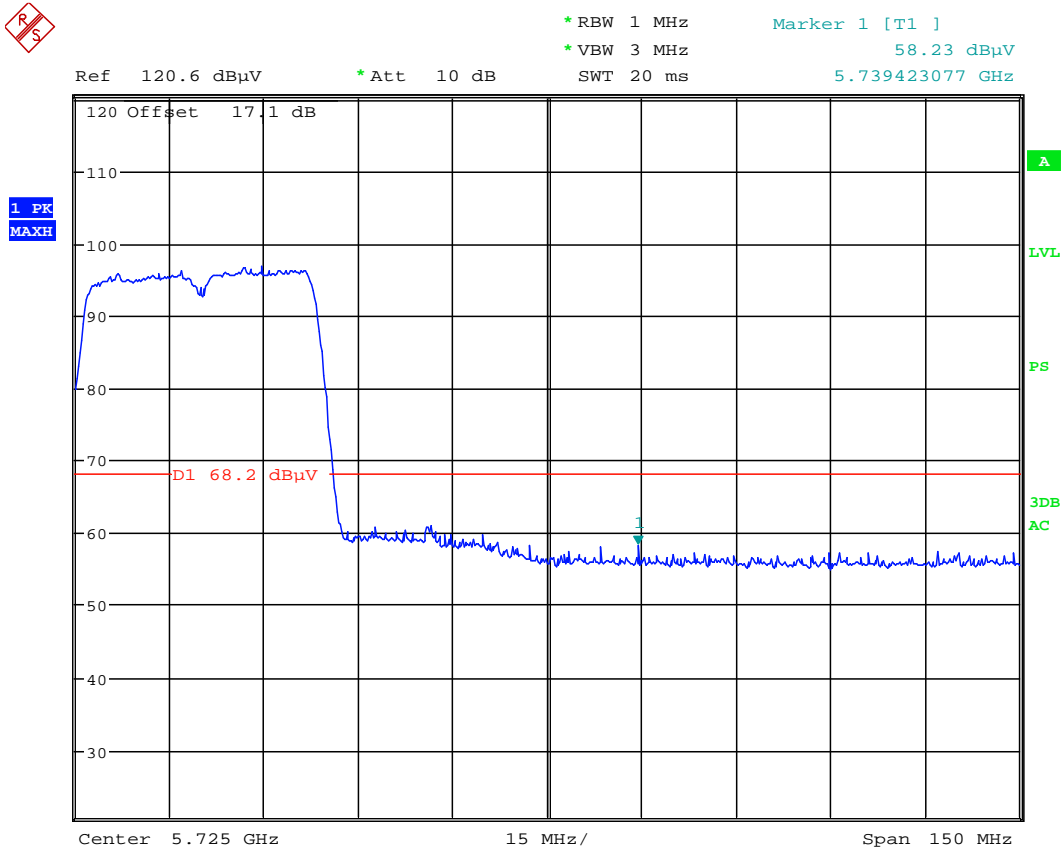
Worst Case Mode: 802.11n (40MHz)

Worst Case Transfer Rate: MCS8

Distance of Measurements: 3 Meters

Operating Frequency: 5670MHz

Channel: 134



**Plot 6-189. Radiated Upper Band Edge Plot (Peak – UNII Band 2C)**

FCC ID: A3LSMG900S		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1402030290.A3L	Test Dates: 2/5 - 2/21/2014	EUT Type: Portable Handset		Page 167 of 181

# Radiated Band Edge Measurements (80MHz BW)

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

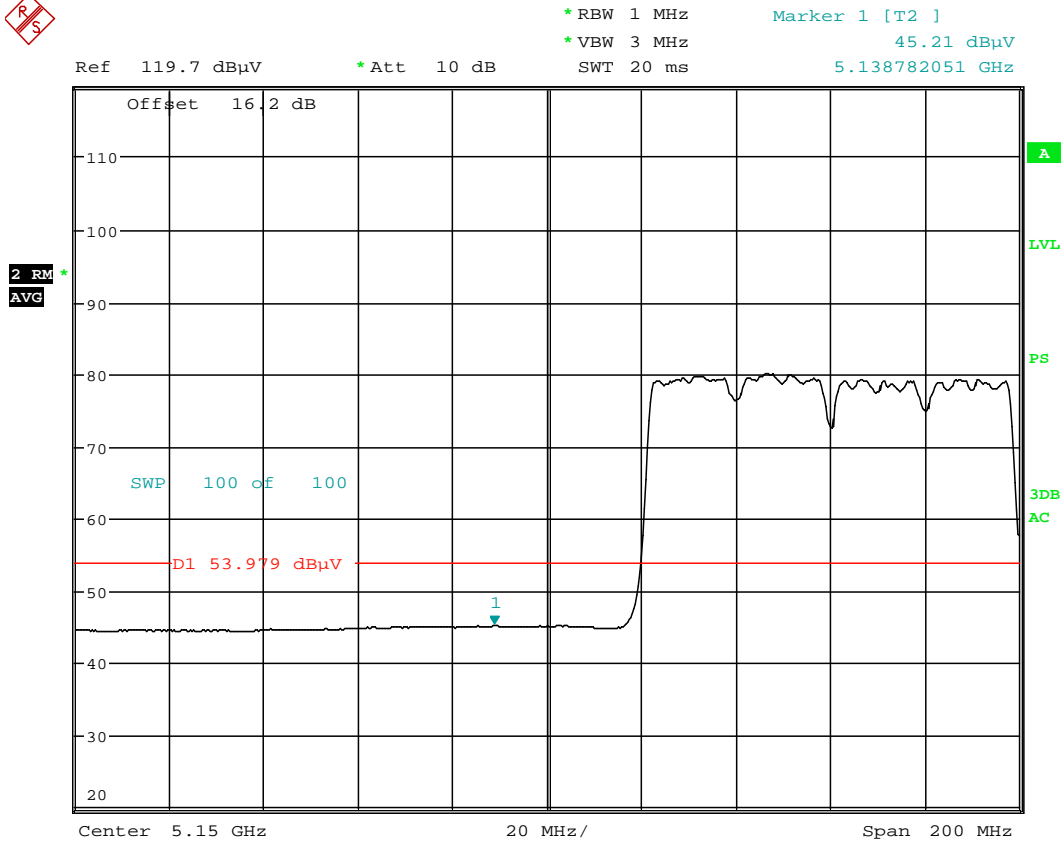
Worst Case Mode: 802.11n (80MHz)

Worst Case Transfer Rate: MCS8

Distance of Measurements: 3 Meters

Operating Frequency: 5210MHz

Channel: 42



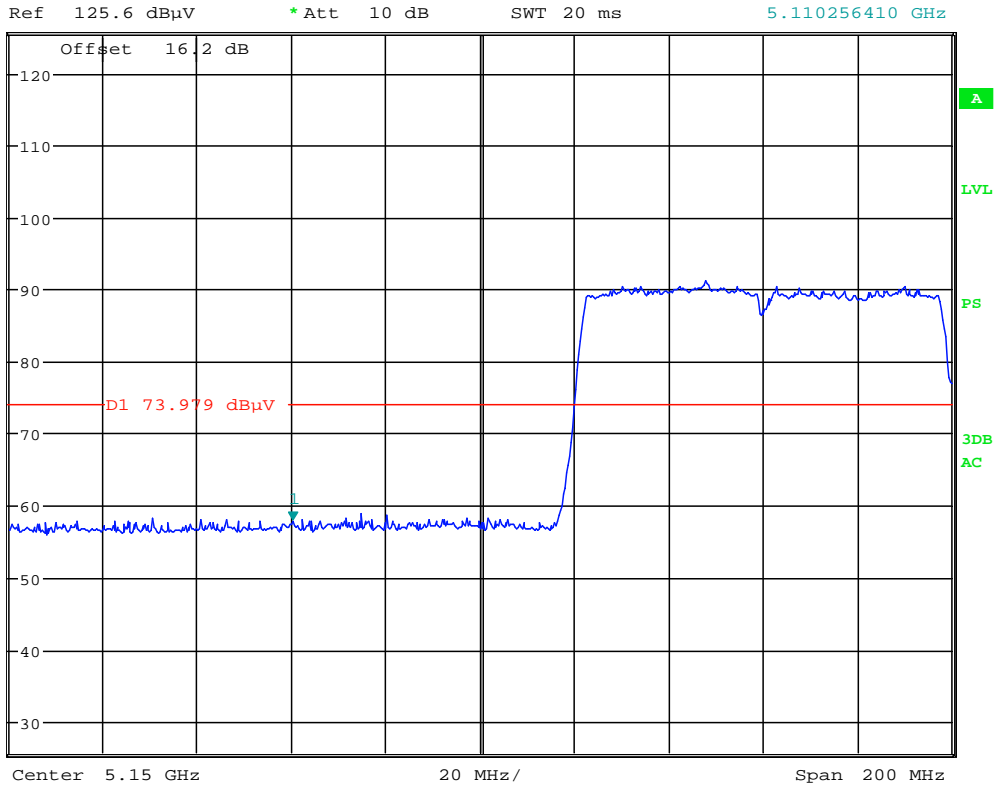
**Plot 6-190. Radiated Restricted Lower Band Edge Plot (Average – UNII Band 1)**

FCC ID: A3LSMG900S		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1402030290.A3L	Test Dates: 2/5 - 2/21/2014	EUT Type: Portable Handset		Page 168 of 181

**Radiated Band Edge Measurements (80MHz BW) (Cont'd)**  
§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]



\*RBW 1 MHz      Marker 1 [T1 ]  
\*VBW 3 MHz      57.91 dBµV  
SWT 20 ms      5.110256410 GHz

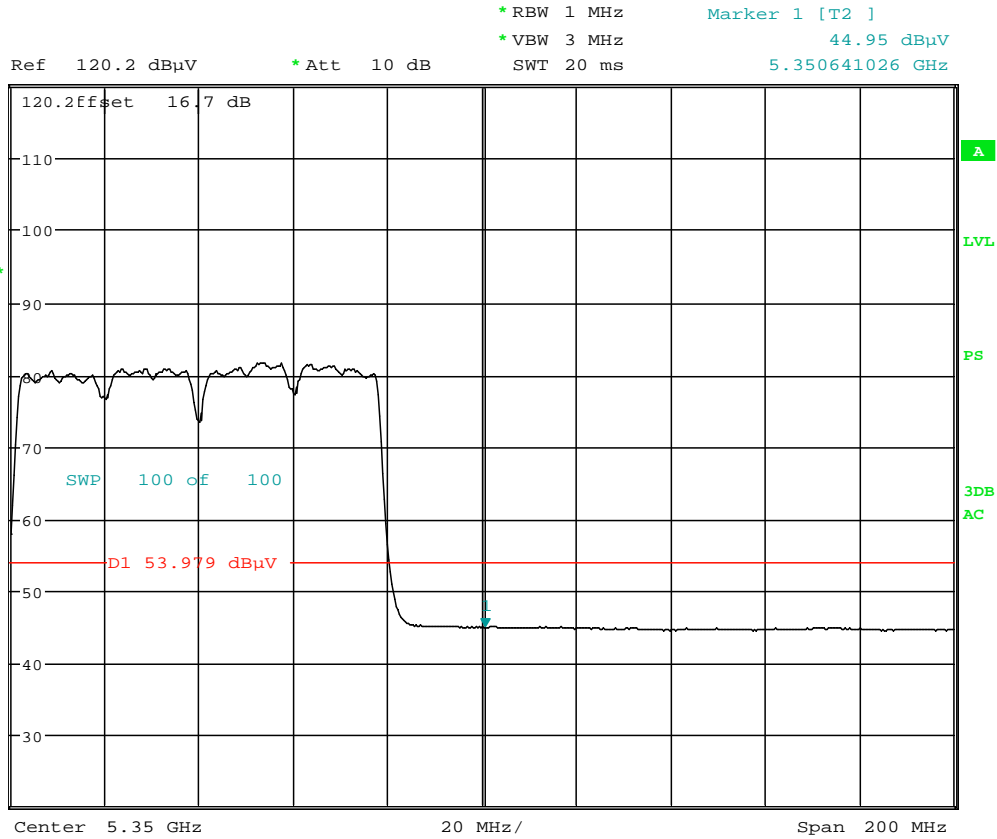


**Plot 6-191. Radiated Restricted Lower Band Edge Plot (Peak – UNII Band 1)**

FCC ID: A3L5MG900S	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: 0Y1402030290.A3L	Test Dates: 2/5 - 2/21/2014	EUT Type: Portable Handset	Page 169 of 181	

**Radiated Band Edge Measurements (80MHz BW) (Cont'd)**  
§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]

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



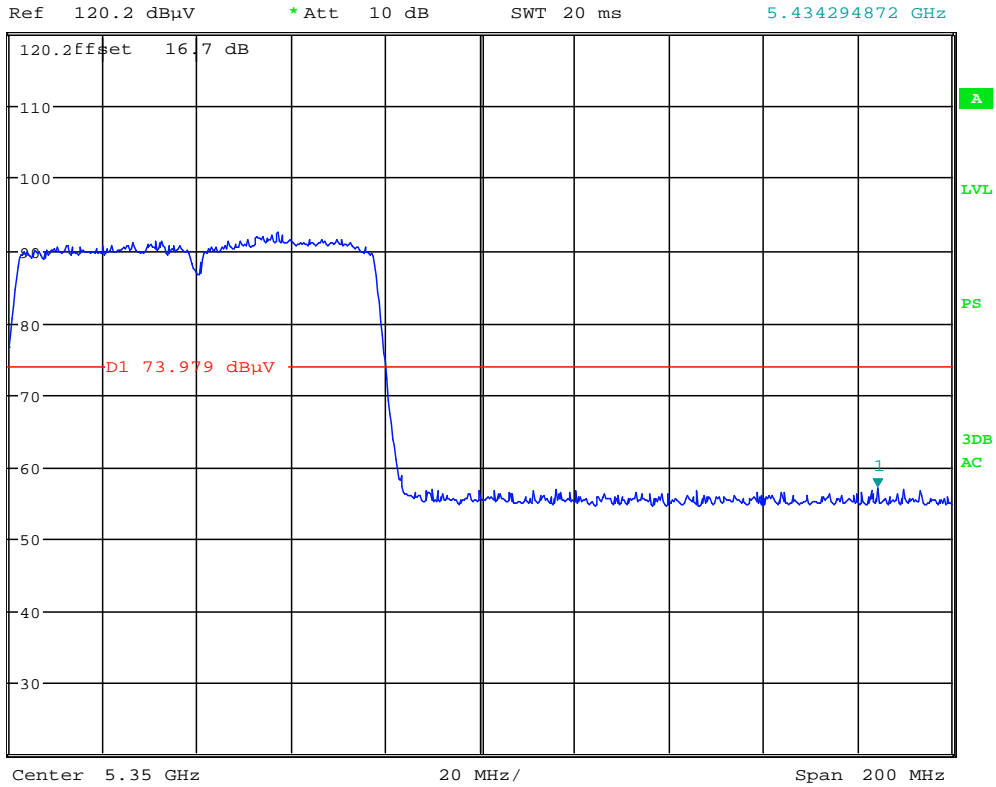
**Plot 6-192. Radiated Restricted Upper Band Edge Plot (Average – UNII Band 2A)**

FCC ID: A3LSMG900S		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1402030290.A3L	Test Dates: 2/5 - 2/21/2014	EUT Type: Portable Handset		Page 170 of 181

**Radiated Band Edge Measurements (80MHz BW) (Cont'd)**  
**§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]**



\*RBW 1 MHz      Marker 1 [T1 ]  
\*VBW 3 MHz      57.00 dBμV  
SWT 20 ms      5.434294872 GHz



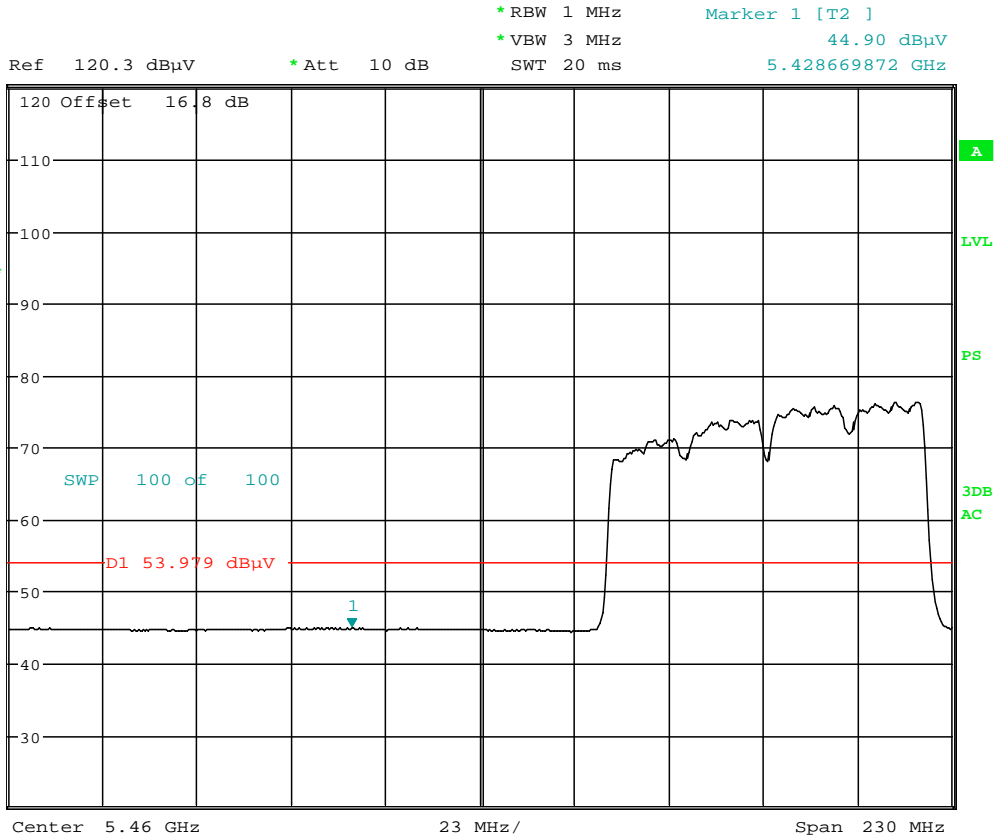
**Plot 6-193. Radiated Restricted Upper Band Edge Plot (Peak – UNII Band 2A)**

FCC ID: A3LSMG900S		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1402030290.A3L	Test Dates: 2/5 - 2/21/2014	EUT Type: Portable Handset	Page 171 of 181	

### Radiated Band Edge Measurements (80MHz BW) (Cont'd)

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

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



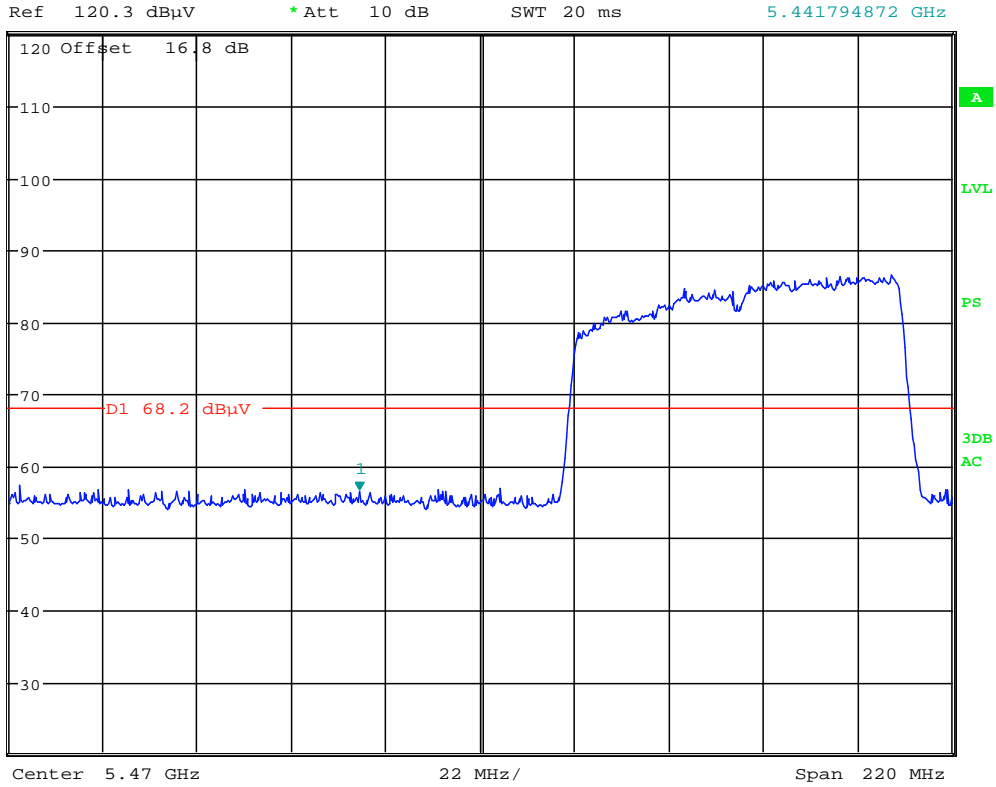
**Plot 6-194. Radiated Restricted Lower Band Edge Plot (Average – UNII Band 2C)**

FCC ID: A3LSMG900S		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1402030290.A3L	Test Dates: 2/5 - 2/21/2014	EUT Type: Portable Handset	Page 172 of 181	

**Radiated Band Edge Measurements (80MHz BW) (Cont'd)**  
§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]



\*RBW 1 MHz      Marker 1 [T1 ]  
\*VBW 3 MHz      56.45 dBµV  
SWT 20 ms      5.441794872 GHz

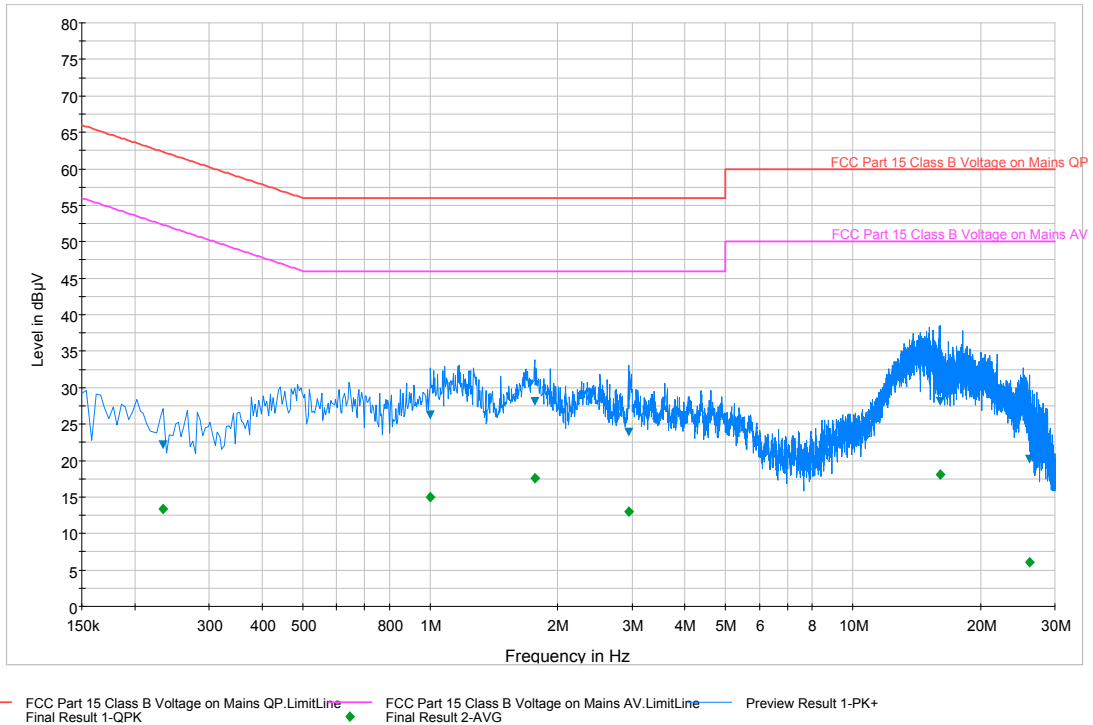


**Plot 6-195. Radiated Restricted Lower Band Edge Plot (Peak – UNII Band 2C)**

FCC ID: A3LSMG900S		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1402030290.A3L	Test Dates: 2/5 - 2/21/2014	EUT Type: Portable Handset	Page 173 of 181	

## 6.11 Line-Conducted Test Data

### §15.207; RSS-Gen [7.2.2]



**Plot 6-196. 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
0.234	L1	0.1	22.20	62.30	40.10	13.40	52.30	38.90
1.002	L1	0.1	26.30	56.00	29.70	15.00	46.00	31.00
1.766	L1	0.1	28.10	56.00	27.90	17.60	46.00	28.40
2.942	L1	0.2	23.90	56.00	32.10	13.00	46.00	33.00
16.046	L1	0.5	28.10	60.00	31.90	18.10	50.00	31.90
26.170	L1	0.8	20.20	60.00	39.80	6.10	50.00	43.90

**Table 6-51. Line Conducted Data with 802.11a UNII Band 1 (L1)**

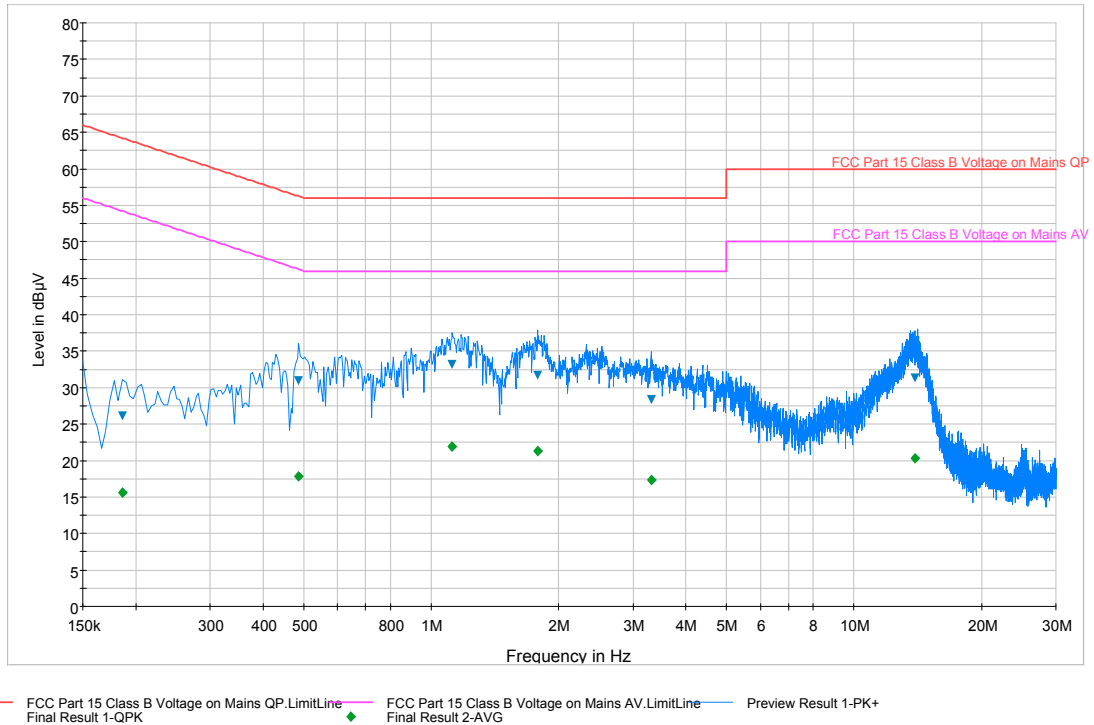
**Notes:**

- 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: A3LSMG900S	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1402030290.A3L	Test Dates: 2/5 - 2/21/2014	EUT Type: Portable Handset		Page 174 of 181

## Line-Conducted Test Data (Cont'd)

### §15.207; RSS-Gen [7.2.2]



**Plot 6-197. Line Conducted Plot with 802.11a UNII Band 1 (N)**

Frequency MHz	Line	Corr. dB	QuasiPeak dBµV	Limit dBµV	Margin dB	Average dBµV	Limit dBµV	Margin dB
0.186	N	0.2	26.20	64.20	38.00	15.60	54.20	38.60
0.486	N	0.1	30.90	56.20	25.30	17.80	46.20	28.40
1.122	N	0.1	33.20	56.00	22.80	21.90	46.00	24.10
1.782	N	0.2	31.70	56.00	24.30	21.30	46.00	24.70
3.310	N	0.2	28.40	56.00	27.60	17.30	46.00	28.70
13.942	N	0.4	31.30	60.00	28.70	20.30	50.00	29.70

**Table 6-52. Line Conducted Data with 802.11a UNII Band 1 (N)**

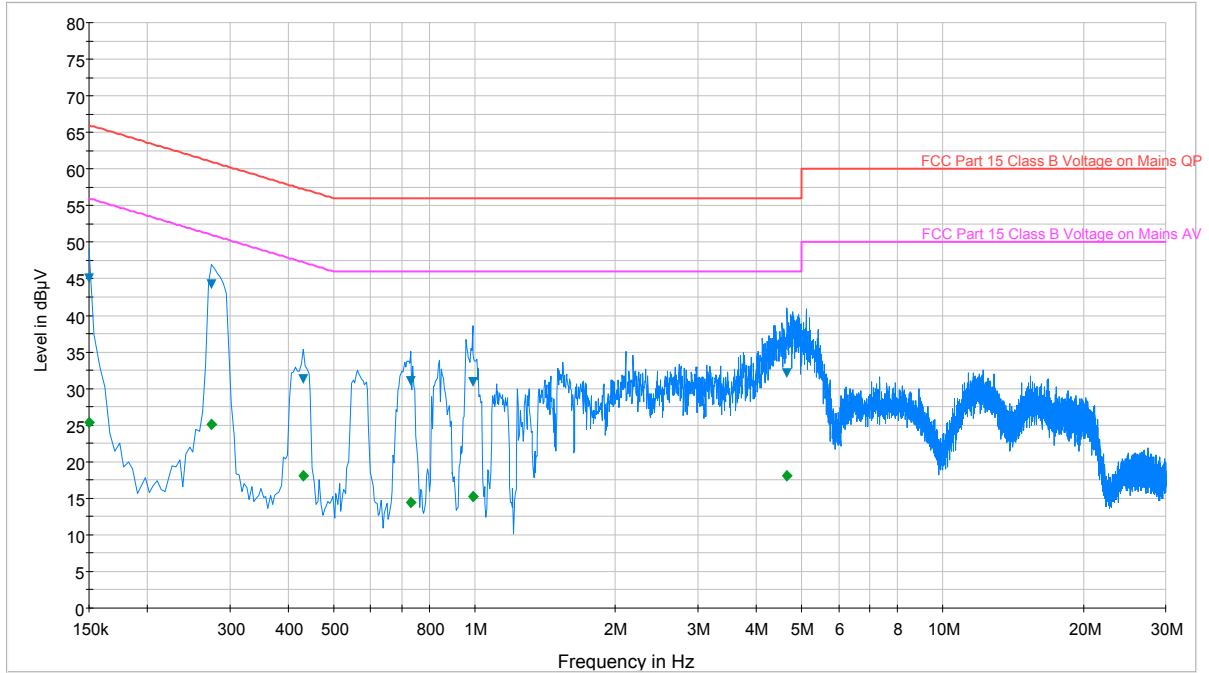
**Notes:**

- 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 (Cont'd)

## §15.207; RSS-Gen [7.2.2]



— 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 2A (L1)**

Frequency MHz	Line	Corr. dB	QuasiPeak dBµV	Limit dBµV	Margin dB	Average dBµV	Limit dBµV	Margin dB
0.150	L1	0.2	45.00	66.00	21.00	25.40	56.00	30.60
0.274	L1	0.1	44.30	61.00	16.70	25.10	51.00	25.90
0.430	L1	0.1	31.40	57.30	25.90	18.10	47.30	29.20
0.730	L1	0.1	31.00	56.00	25.00	14.40	46.00	31.60
0.990	L1	0.1	30.90	56.00	25.10	15.30	46.00	30.70
4.658	L1	0.2	32.10	56.00	23.90	18.10	46.00	27.90



**Table 6-53. 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.

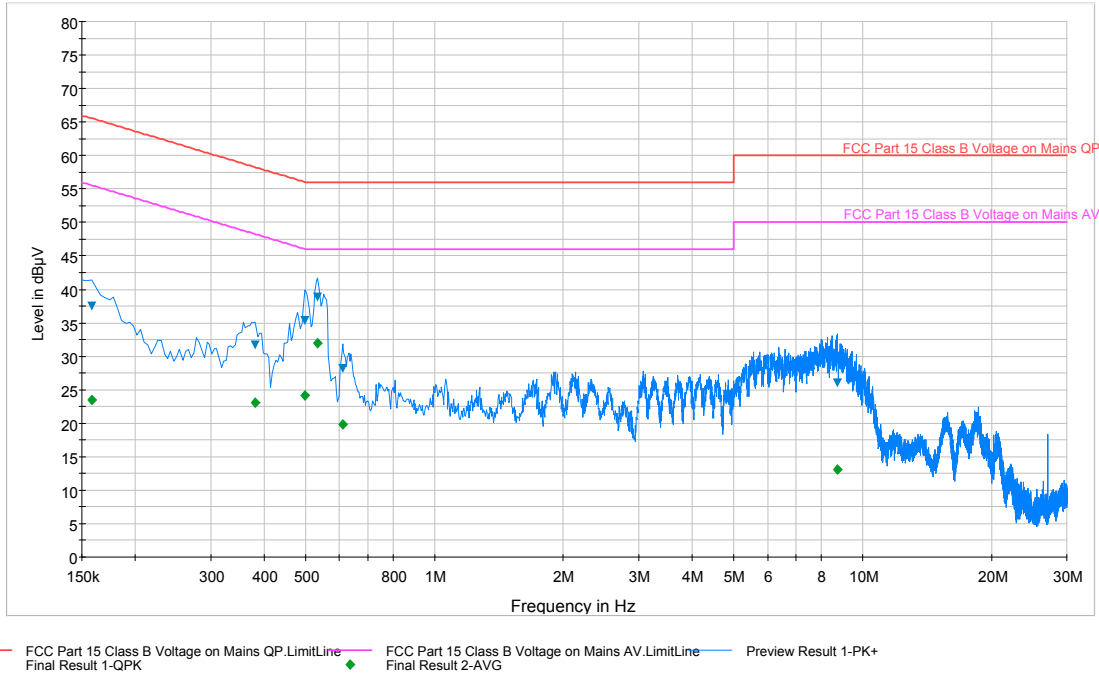
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8. Deviations to the Specifications: None.

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## Line-Conducted Test Data (Cont'd)

### §15.207; RSS-Gen [7.2.2]



**Plot 6-199. 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
0.158	N	0.3	37.50	65.60	28.10	23.50	55.60	32.10
0.382	N	0.1	31.70	58.20	26.50	23.10	48.20	25.10
0.498	N	0.1	35.30	56.00	20.70	24.10	46.00	21.90
0.534	N	0.1	38.90	56.00	17.10	31.90	46.00	14.10
0.610	N	0.1	28.20	56.00	27.80	19.90	46.00	26.10
8.730	N	0.3	26.00	60.00	34.00	13.10	50.00	36.90

**Table 6-54. Line Conducted Data with 802.11a UNII Band 2A (N)**

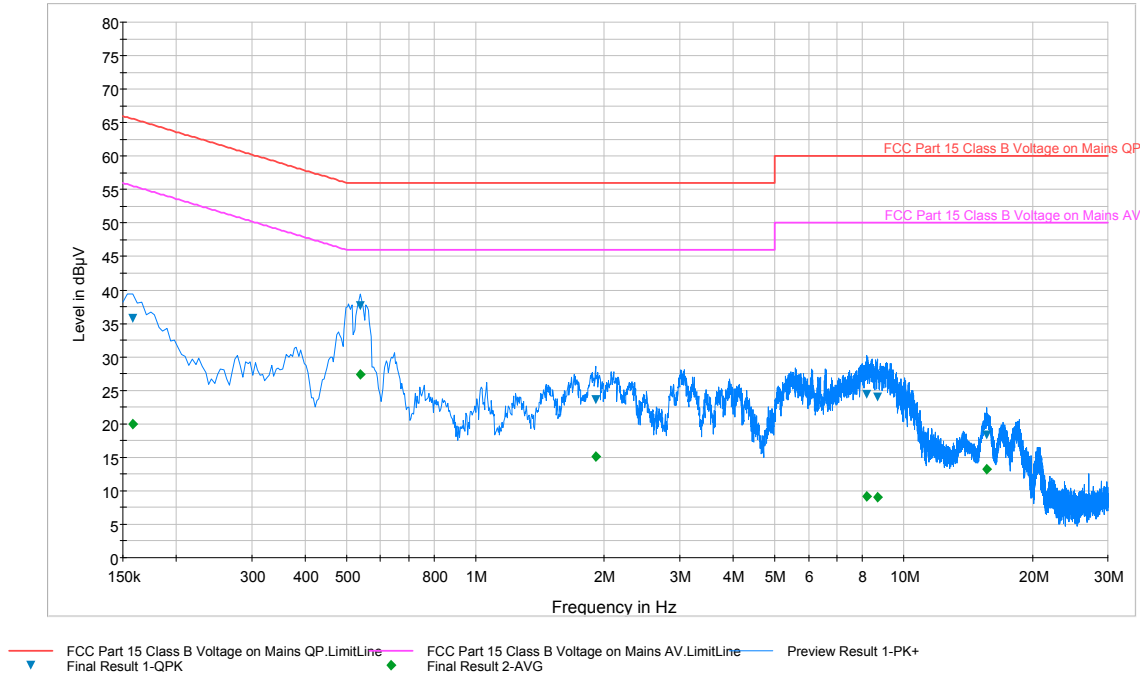
**Notes:**

- 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 (Cont'd)

### §15.207; RSS-Gen [7.2.2]



**Plot 6-200. Line Conducted Plot with 802.11a UNII Band 2C (L1)**

Frequency MHz	Line	Corr. dB	QuasiPeak dBµV	Limit dBµV	Margin dB	Average dBµV	Limit dBµV	Margin dB
0.158	L1	0.2	35.70	65.60	29.90	20.00	55.60	35.60
0.538	L1	0.1	37.60	56.00	18.40	27.40	46.00	18.60
1.910	L1	0.1	23.60	56.00	32.40	15.20	46.00	30.80
8.210	L1	0.3	24.40	60.00	35.60	9.20	50.00	40.80
8.682	L1	0.3	24.00	60.00	36.00	9.10	50.00	40.90
15.658	L1	0.5	18.40	60.00	41.60	13.20	50.00	36.80

**Table 6-55. Line Conducted Plot with 802.11a UNII Band 2C (L1)**

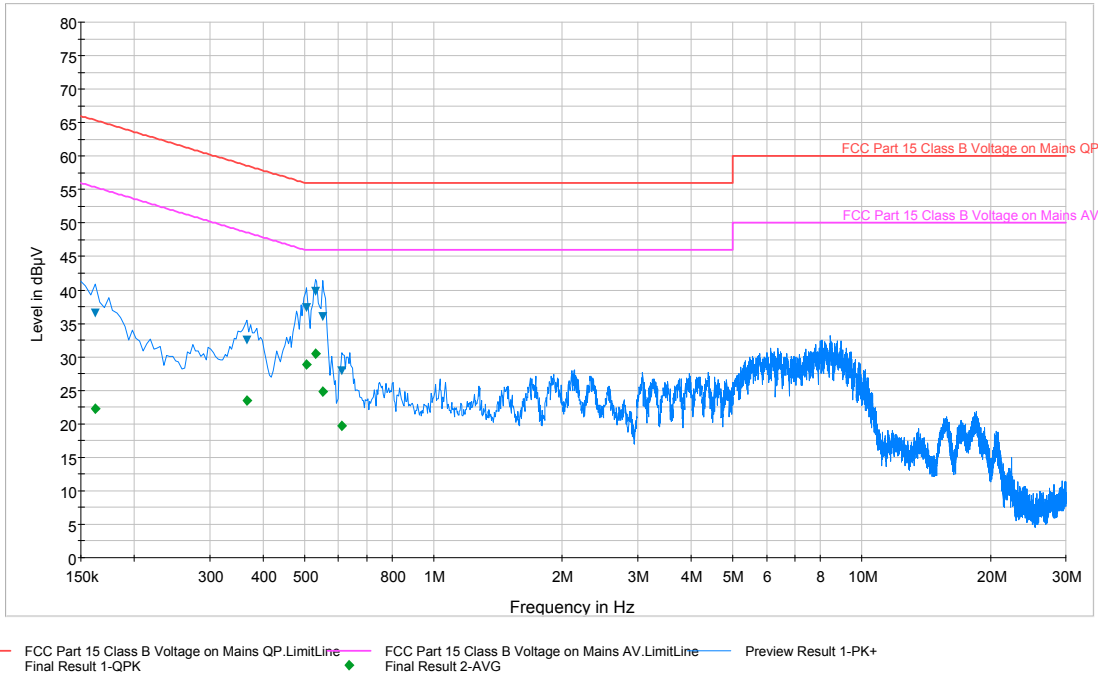
**Notes:**

- 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.

FCC ID: A3LSMG900S		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
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## Line-Conducted Test Data (Cont'd)

### §15.207; RSS-Gen [7.2.2]



**Plot 6-201. Line Conducted Plot with 802.11a UNII Band 2C (N)**

Frequency MHz	Line	Corr. dB	QuasiPeak dBµV	Limit dBµV	Margin dB	Average dBµV	Limit dBµV	Margin dB
0.162	N	0.3	36.50	65.40	28.90	22.20	55.40	33.20
0.366	N	0.1	32.50	58.60	26.10	23.40	48.60	25.20
0.506	N	0.1	37.40	56.00	18.60	28.90	46.00	17.10
0.530	N	0.1	39.80	56.00	16.20	30.50	46.00	15.50
0.550	N	0.1	36.10	56.00	19.90	24.90	46.00	21.10
0.610	N	0.1	28.00	56.00	28.00	19.60	46.00	26.40

**Table 6-56. 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 Handset FCC ID: A3LSMG900S** is in compliance with Part 15E of the FCC Rules and RSS-210 of the Industry Canada Rules.

<b>FCC ID:</b> A3LSMG900S	 <b>PCTEST</b> ENGINEERING LABORATORY, INC.	<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> 0Y1402030290.A3L	<b>Test Dates:</b> 2/5 - 2/21/2014	<b>EUT Type:</b> Portable Handset		Page 181 of 181