



# PCTEST ENGINEERING LABORATORY, INC.

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## MEASUREMENT REPORT FCC PART 15.407 / IC RSS-210 802.11a/n (UNII)

**Applicant Name:**  
Samsung Electronics Co., Ltd.  
129, Samsung-ro, Yeongtong-gu  
Suwon-city, Gyeonggi-do, 443-803  
Republic of Korea

**Date of Testing:**  
8/5 - 8/15/2013  
**Test Site/Location:**  
PCTEST Lab, Columbia, MD, USA  
**Test Report Serial No.:**  
0Y1307261452.A3L

<b>FCC ID:</b>	<b>A3LSGHI337</b>
<b>APPLICANT:</b>	<b>Samsung Electronics Co., Ltd.</b>



**Application Type:** Class II Permissive Change  
**Model(s):** SCH-I545  
**EUT Type:** Portable Handset  
**FCC Classification:** Unlicensed National Information Infrastructure (UNII)  
**FCC Rule Part(s):** Part 15.407  
**IC Specification(s):** RSS-210 Issue 8  
**Test Procedure(s):** KDB 789033 v01r03, KDB 644545 v01r01  
**Class II Permissive Change:** Please see FCC change documents.  
**Original Grant Date:** 3/29/2013

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in KDB 789033 v01r03 and KDB 644545 v01r01. Test results reported herein relate only to the item(s) tested.

I attest to the accuracy of data. All measurements reported herein were performed by me or were made under my supervision and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them.

  
Randy Ortanez  
President





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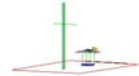
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# MEASUREMENT REPORT

## FCC Part 15.407



### § 2.1033 General Information

**APPLICANT:** Samsung Electronics Co., Ltd.

**APPLICANT ADDRESS:** 129, Samsung-ro, Yeongtong-gu  
Suwon-city, Gyeonggi-do, 443-803, Republic of Korea

**TEST SITE:** PCTEST ENGINEERING LABORATORY, INC.

**TEST SITE ADDRESS:** 7185 Oakland Mills Road, Columbia, MD 21046 USA

**FCC RULE PART(S):** Part 15.407

**IC SPECIFICATION(S):** RSS-210 Issue 8

**MODEL NAME:** SCH-I545

**FCC ID:** A3LSGHI337

**Test Device Serial No.:** N/A       Production     Pre-Production     Engineering

**FCC CLASSIFICATION:** Unlicensed National Information Infrastructure (UNII)

**DATE(S) OF TEST:** 8/5 - 8/15/2013



**TEST REPORT S/N:** 0Y1307261452.A3L

### Test Facility / Accreditations

Measurements were performed at PCTEST Engineering Lab located in Columbia, MD 21046, U.S.A.

- PCTEST facility is an FCC registered (PCTEST Reg. No. 159966) test facility with the site description report on file and has met all the requirements specified in Section 2.948 of the FCC Rules and Industry Canada (2451B-1).
- PCTEST Lab is accredited to ISO 17025 by U.S. National Institute of Standards and Technology (NIST) under the National Voluntary Laboratory Accreditation Program (NVLAP Lab code: 100431-0) in EMC, FCC and Telecommunications.
- PCTEST Lab is accredited to ISO 17025-2005 by the American Association for Laboratory Accreditation (A2LA) in Specific Absorption Rate (SAR) testing, Hearing Aid Compatibility (HAC) testing, CTIA Test Plans, and wireless testing for FCC and Industry Canada Rules.
- PCTEST Lab is a recognized U.S. Conformity Assessment Body (CAB) in EMC and R&TTE (n.b. 0982) under the U.S.-EU Mutual Recognition Agreement (MRA).
- PCTEST TCB is a Telecommunication Certification Body (TCB) accredited to ISO/IEC Guide 65 by the American National Standards Institute (ANSI) in all scopes of FCC Rules and Industry Canada Standards (RSS).
- PCTEST facility is an IC registered (2451B-1) test laboratory with the site description on file at Industry Canada.
- PCTEST is a CTIA Authorized Test Laboratory (CATL) for AMPS, CDMA, and EvDO wireless devices and for Over-the-Air (OTA) Antenna Performance testing for AMPS, CDMA, GSM, GPRS, EGPRS, UMTS (W-CDMA), CDMA 1xEVDO, and CDMA 1xRTT.



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# 1.0 INTRODUCTION

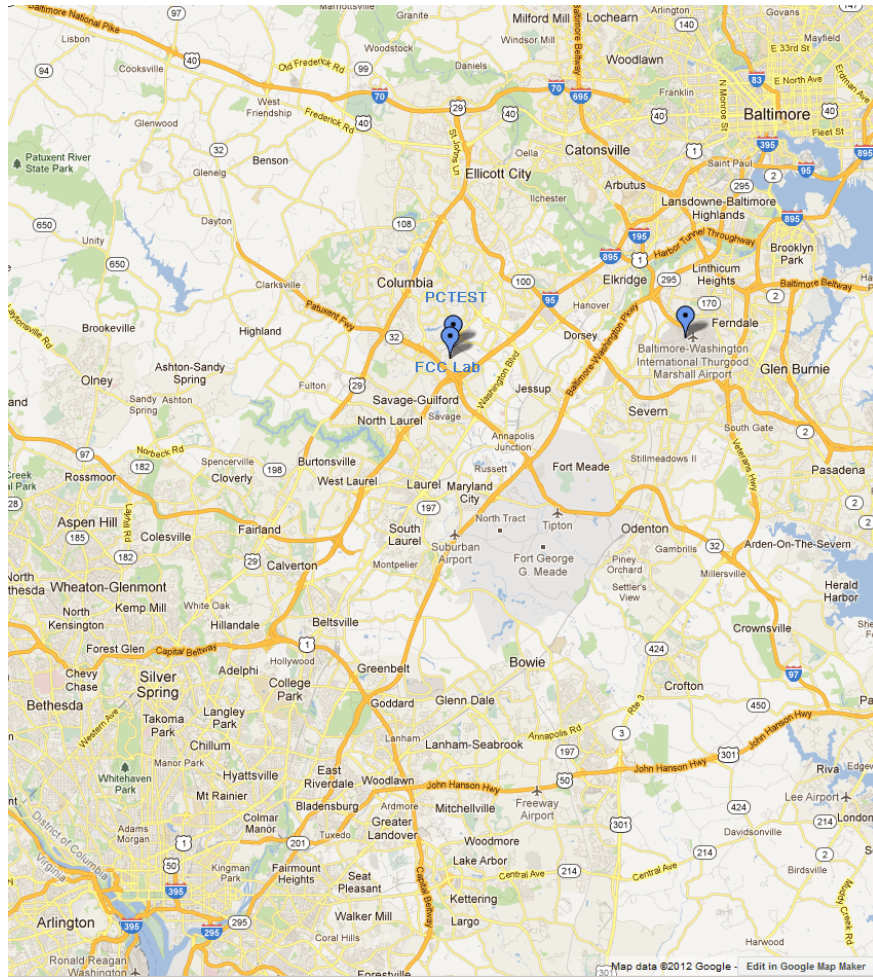
## 1.1 Scope

Measurement and determination of electromagnetic emissions (EMC) of radio frequency devices including intentional and/or unintentional radiators for compliance with the technical rules and regulations of the Federal Communications Commission and the Industry Canada Certification and Engineering Bureau.



## 1.2 PCTEST Test Location

The map below shows the location of the PCTEST LABORATORY, its proximity to the FCC Laboratory, the Columbia vicinity, the Baltimore-Washington Intern'tl (BWI) airport, the city of Baltimore and the Washington, DC area. (See Figure 1-1).

These measurement tests were conducted at the PCTEST Engineering Laboratory, Inc. facility located at 7185 Oakland Mills Road, Columbia, MD 21046. The site coordinates are 39° 10'23" N latitude and 76° 49'50" W longitude. The facility is 0.4 miles North of the FCC laboratory, and the ambient signal and ambient signal strength are approximately equal to those of the FCC laboratory. The detailed description of the measurement facility was found to be in compliance with the requirements of § 2.948 according to ANSI C63.4-2009 on February 15, 2012.



**Figure 1-1. Map of the Greater Baltimore and Metropolitan Washington, D.C. area**

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## 2.0 PRODUCT INFORMATION

### 2.1 Equipment Description

The Equipment Under Test (EUT) is the **Samsung Portable Handset FCC ID: A3LSGHI337**. The test data contained in this report pertains only to the emissions due to the EUT's UNII transmitter.

### 2.2 Device Capabilities

This device contains the following capabilities:

850/1900 CDMA/EvDO Rev0/A (BC0, BC1), 850/1900 GSM/GPRS/EDGE, 850/1900 WCDMA/HSPA, Band 4(5,10,15,20 MHz BW), 13 (5,10 MHz BW) LTE, 802.11a/b/g/n/ac WLAN (DTS/NII), Bluetooth (1x,EDR, LE), NFC

### 2.3 Test Configuration

The Samsung Portable Handset FCC ID: A3LSGHI337 was tested per the guidance of KDB 789033 v01r03. ANSI C63.10-2009 was used to reference the appropriate EUT setup for radiated spurious emissions testing. Additional testing was performed with the EUT charging on a representative charging pad and fitted with the Wireless Charging Cover (WCC) Model: EP-CI950IWE.



### 2.4 EMI Suppression Device(s)/Modifications

No EMI suppression device(s) were added and/or no modifications were made during testing.

### 2.5 Labeling Requirements

Per 2.1074 & 15.19; Docket 95-19

The label shall be permanently affixed at a conspicuous location on the device; instruction manual or pamphlet supplied to the user and be readily visible to the purchaser at the time of purchase. However, when the device is so small wherein placement of the label with specified statement is not practical, only the trade name and FCC ID must be displayed on the device per Section 15.19(a)(5). Please see attachment for FCC ID label and label location.

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## 3.0 DESCRIPTION OF TEST

### 3.1 Evaluation Procedure

The measurement procedures described in the American National Standard for Testing Unlicensed Wireless Devices (ANSI C63.10-2009) and the guidance provided in KDB 789033 v01r03 were used in the measurement of **Samsung Portable Handset FCC ID: A3LSGHI337**.



Deviation from measurement procedure.....None

### 3.2 Radiated Emissions

The radiated test facilities consisted of an indoor 3 meter semi-anechoic chamber used for final measurements and exploratory measurements, when necessary. The measurement area is contained within the semi-anechoic chamber which is shielded from any ambient interference. For measurements above 1GHz absorbers are arranged on the floor between the turn table and the antenna mast in such a way so as to maximize the reduction of reflections. For measurements below 1GHz, the absorbers are removed. An ETS Lindgren Model 2188 raised turntable is used for radiated measurement. It is a continuously rotatable, remote-controlled, metallic turntable and 2 meters (6.56 ft.) in diameter. The turn table is flush with the raised floor of the chamber in order to maintain its function as a ground plane. A 78cm high PVC support structure is placed on top of the turntable. A ¾" (~1.9cm) sheet of high density polyethylene is used as the table top and is placed on top of the PVC supports to bring the total height of the table to 80cm.

For all measurements, the spectrum was scanned through all EUT azimuths and from 1 to 4 meter receive antenna height using a broadband antenna from 30MHz up to the upper frequency shown in 15.33(b)(1) depending on the highest frequency generated or used in the device or on which the device operates or tunes. For frequencies above 1GHz, linearly polarized double ridge horn antennas were used. For frequencies below 30MHz, a calibrated loop antenna was used. When exploratory measurements were necessary, they were performed at 1 meter test distance inside the semi-anechoic chamber using broadband antennas, broadband amplifiers, and spectrum analyzers to determine the frequencies and modes producing the maximum emissions. Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. The test set-up was placed on top of the 0.8 meter high, 1 x 1.5 meter table. The EUT, support equipment, and interconnecting cables were arranged and manipulated to maximize each emission. Appropriate precaution was taken to ensure that all emissions from the EUT were maximized and investigated. The system configuration, clock speed, mode of operation or video resolution, if applicable, turntable azimuth, and receive antenna height was noted for each frequency found.

Final measurements were made in the semi-anechoic chamber using calibrated, linearly polarized broadband and horn antennas. The test setup was configured to the setup that produced the worst case emissions. The spectrum analyzer was set to investigate all frequencies required for testing to compare the highest radiated disturbances with respect to the specified limits. The turntable containing the EUT was rotated through 360 degrees and the height of the receive antenna was varied 1 to 4 meters and stopped at the azimuth and height producing the maximum emission. Each emission was maximized by changing the orientation of the EUT through three orthogonal planes and changing the polarity of the receive antenna, whichever produced the worst-case emissions. For the EUT positioning, "H" is defined with the EUT lying flat on the test surface, "H2" is defined with the EUT standing up on its side, and "V" is defined with the EUT standing upright.



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## 4.0 TEST EQUIPMENT CALIBRATION DATA

Test Equipment Calibration is traceable to the National Institute of Standards and Technology (NIST).

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
-	RE1	Radiated Emissions Cable Set (UHF/EHF)	3/29/2013	Annual	3/29/2014	N/A
-	WL25-1	Conducted Cable Set (25GHz)	1/16/2013	Annual	1/16/2014	N/A
-	WL40-1	Conducted Cable Set (40GHz)	1/17/2013	Annual	1/17/2014	N/A
Agilent	N9020A	MXA Signal Analyzer	10/9/2012	Annual	10/9/2013	US46470561
Agilent	N9030A	PXA Signal Analyzer (44GHz)	1/11/2013	Annual	1/11/2014	MY52350166
Anritsu	MA2411B	Pulse Sensor	9/19/2012	Annual	9/19/2013	1027293
Anritsu	ML2495A	Power Meter	10/11/2012	Annual	10/11/2013	1039008
ETS Lindgren	3117	1-18 GHz DRG Horn (Medium)	7/24/2013	Biennial	7/24/2015	125518
ETS Lindgren	3160-09	18-26.5 GHz Standard Gain Horn	5/30/2012	Biennial	5/30/2014	135427
ETS Lindgren	3160-10	26.5-40 GHz Standard Gain Horn	6/6/2012	Biennial	6/6/2014	130993
Mini-Circuits	VHF-3100+	High Pass Filter	1/17/2013	Annual	1/17/2014	30841
Mini-Circuits	VHF-8400+	3.4GHz - 9.9GHz High Pass Filter	1/17/2013	Annual	1/17/2014	31048
Rohde & Schwarz	TS-PR18	1-18 GHz Pre-Amplifier	5/31/2013	Annual	5/31/2014	100071
Rohde & Schwarz	TS-PR26	18-26.5 GHz Pre-Amplifier	5/31/2013	Annual	5/31/2014	100040
Rohde & Schwarz	ESU26	EMI Test Receiver	2/25/2013	Annual	2/25/2014	100342
Rohde & Schwarz	TS-PR40	26.5-40 GHz Pre-Amplifier	6/6/2012	Biennial	6/6/2014	100037
Solar Electronics	8012-50-R-24-BNC	LISN	6/20/2013	Biennial	6/20/2015	310233
Sunol	JB5	Bi-Log Antenna (30M - 5GHz)	1/26/2012	Biennial	1/26/2014	A051107

**Table 4-1. Annual Test Equipment Calibration Schedule**

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## 5.0 TEST RESULTS

### 5.1 Summary



Company Name: Samsung Electronics Co., Ltd.  
 FCC ID: A3LSGHI337  
 Method/System: Unlicensed National Information Infrastructure (UNII)  
 Data Rate(s) Tested: 6, 9, 12, 18, 24, 36, 48, 54Mbps (802.11a)  
6.5/7.2, 13/14.4, 19.5/21.7, 26/28.9, 39/43.3, 52/57.8, 58.5/65, 65/72.2 (n – 20MHz)  
13.5/15, 27/30, 40.5/45, 54/60, 81/90, 108/120, 121.5/135, 135/150 (n – 40MHz BW)  
29.3/32.5Mbps, 58.5/65Mbps, 87.8/97.5Mbps, 117/130Mbps, 175.5/195Mbps,  
234/260Mbps, 263.3/292.5Mbps, 292.5/325Mbps, 351/390Mbps, 390/433.3Mbps  
(ac – 80MHz BW)

FCC Part Section(s)	RSS Section(s)	Test Description	Test Limit	Test Condition	Test Result	Reference
<b>TRANSMITTER MODE (TX)</b>						
15.407(b)(1), (2),(3)	RSS-210 [A9.2]	Undesirable Emissions	< -27 dBm/MHz EIRP (5150-5350MHz, 5470-5725MHz)	RADIATED	PASS	Section 5.2
15.205, 15.407(b)(1), (5), (6)	RSS-Gen [7.2.3.2]	General Field Strength Limits (Restricted Bands and Radiated Emission Limits)	Emissions in restricted bands must meet the radiated limits detailed in 15.209 (RSS-210 table 3 limits)		PASS	Section 5.3, 5.4, 5.5

**Table 5-1. Summary of Test Results**

**Notes:**

- 1) All channels, modes, and modulations/data rates were investigated among all UNII bands. The test results shown in the following sections represent the worst case emissions.

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## 5.2 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) 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 5-2 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 5-2. 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**

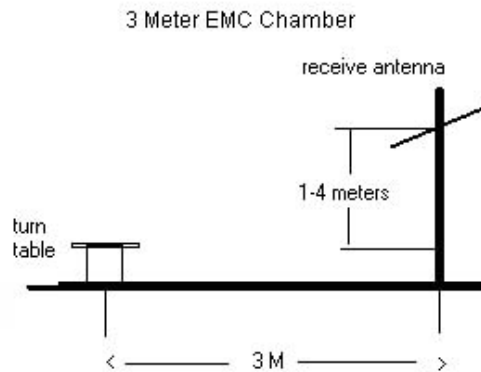
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

**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 5-1. 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 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.
3. The antenna is manipulated through typical positions, polarity and length during the tests. The EUT is manipulated through three orthogonal planes.
4. This unit was tested with its standard battery.
5. The spectrum is measured from 9kHz to the 10th harmonic of the fundamental frequency of the transmitter using CISPR quasi peak detector below 1GHz. Above 1 GHz, average and peak measurements were taken using linearly polarized horn antennas. The worst-case emissions are reported however emissions whose levels were not within 20dB of the respective limits were not reported.
6. Emissions below 18GHz were measured at a 3 meter test distance while emissions above 18GHz were measured at a 1 meter test distance with the application of a distance correction factor.
7. Average levels at -135dBm and peak levels at -125dBm represent the analyzer noise floor and signify that no emission was detected.
8. Harmonic spurious emissions were tested with the Wireless Charging Cover (WCC) however no significant emissions were found.

## 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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**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: 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	-100.44	Peak	H	47.44	54.00	68.20	-14.20
* 15540.00	-135.00	Average	H	57.02	29.02	53.98	-24.96
* 15540.00	-125.00	Peak	H	57.02	39.02	73.98	-34.96
* 20720.00	-135.00	Average	H	44.02	16.02	53.98	-37.96
* 20720.00	-125.00	Peak	H	44.02	26.02	73.98	-47.96
25900.00	-125.00	Peak	H	44.85	26.85	68.20	-41.35

**Table 5-3. 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	-100.42	Peak	H	47.46	54.04	68.20	-14.16
* 15600.00	-135.00	Average	H	57.02	29.02	53.98	-24.96
* 15600.00	-125.00	Peak	H	57.02	39.02	73.98	-34.96
* 20800.00	-135.00	Average	H	44.00	16.00	53.98	-37.98
* 20800.00	-125.00	Peak	H	44.00	26.00	73.98	-47.98
26000.00	-125.00	Peak	H	44.88	26.88	68.20	-41.32

**Table 5-4. 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: 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	-100.57	Peak	H	47.50	53.94	68.20	-14.26
* 15720.00	-135.00	Average	H	57.32	29.32	53.98	-24.65
* 15720.00	-125.00	Peak	H	57.32	39.32	73.98	-34.65
* 20960.00	-135.00	Average	H	43.99	15.99	53.98	-37.99
* 20960.00	-125.00	Peak	H	43.99	25.99	73.98	-47.99
26200.00	-125.00	Peak	H	44.82	26.82	68.20	-41.38

**Table 5-5. 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	-100.39	Peak	H	47.68	54.29	68.20	-13.91
* 15780.00	-135.00	Average	H	57.51	29.51	53.98	-24.47
* 15780.00	-125.00	Peak	H	57.51	39.51	73.98	-34.47
* 21040.00	-135.00	Average	H	44.01	16.01	53.98	-37.97
* 21040.00	-125.00	Peak	H	44.01	26.01	73.98	-47.97
26300.00	-125.00	Peak	H	44.87	26.87	68.20	-41.33

**Table 5-6. 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: 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	-102.32	Peak	H	48.01	52.69	68.20	-15.51
* 15840.00	-135.00	Average	H	57.68	29.68	53.98	-24.30
* 15840.00	-125.00	Peak	H	57.68	39.68	73.98	-34.30
* 21120.00	-135.00	Average	H	44.00	16.00	53.98	-37.98
* 21120.00	-125.00	Peak	H	44.00	26.00	73.98	-47.98
26400.00	-125.00	Peak	H	44.81	26.81	68.20	-41.39

**Table 5-7. 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	-109.05	Average	H	48.68	46.63	53.98	-7.35
* 10640.00	-101.65	Peak	H	48.68	54.03	73.98	-19.95
* 15960.00	-135.00	Average	H	57.99	29.99	53.98	-23.99
* 15960.00	-125.00	Peak	H	57.99	39.99	73.98	-33.99
* 21280.00	-135.00	Average	H	44.02	16.02	53.98	-37.96
* 21280.00	-125.00	Peak	H	44.02	26.02	73.98	-47.96
26600.00	-125.00	Peak	H	44.70	26.70	68.20	-41.50

**Table 5-8. Radiated Measurements**

FCC ID: A3LSGHI337		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)		Reviewed by: Quality Manager
Test Report S/N: 0Y1307261452.A3L	Test Dates: 8/5 - 8/15/2013	EUT Type: Portable Handset	Page 14 of 40	

## 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	-110.16	Average	H	48.02	44.86	53.98	-9.12
* 11000.00	-99.45	Peak	H	48.02	55.57	73.98	-18.41
16500.00	-125.00	Peak	H	60.56	42.56	68.20	-25.64
22000.00	-125.00	Peak	H	44.30	26.30	68.20	-41.90
27500.00	-125.00	Peak	H	44.10	26.10	68.20	-42.10

**Table 5-9. 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	-109.33	Average	H	50.52	48.19	53.98	-5.79
* 11160.00	-99.53	Peak	H	50.52	57.99	73.98	-15.99
16740.00	-125.00	Peak	H	59.50	41.50	68.20	-26.70
* 22320.00	-135.00	Average	H	44.40	16.40	53.98	-37.58
* 22320.00	-125.00	Peak	H	44.40	26.40	73.98	-47.58
27900.00	-125.00	Peak	H	43.94	25.94	68.20	-42.26

**Table 5-10. Radiated Measurements**



FCC ID: A3LSGHI337		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)		Reviewed by: Quality Manager
Test Report S/N: 0Y1307261452.A3L	Test Dates: 8/5 - 8/15/2013	EUT Type: Portable Handset	Page 15 of 40	

**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	-110.78	Average	H	48.78	45.00	53.98	-8.98
* 11400.00	-101.62	Peak	H	48.78	54.16	73.98	-19.82
17100.00	-125.00	Peak	H	57.51	39.51	68.20	-28.69
* 22800.00	-135.00	Average	H	44.45	16.45	53.98	-37.53
* 22800.00	-125.00	Peak	H	44.45	26.45	73.98	-47.53
28500.00	-125.00	Peak	H	43.63	25.63	68.20	-42.57

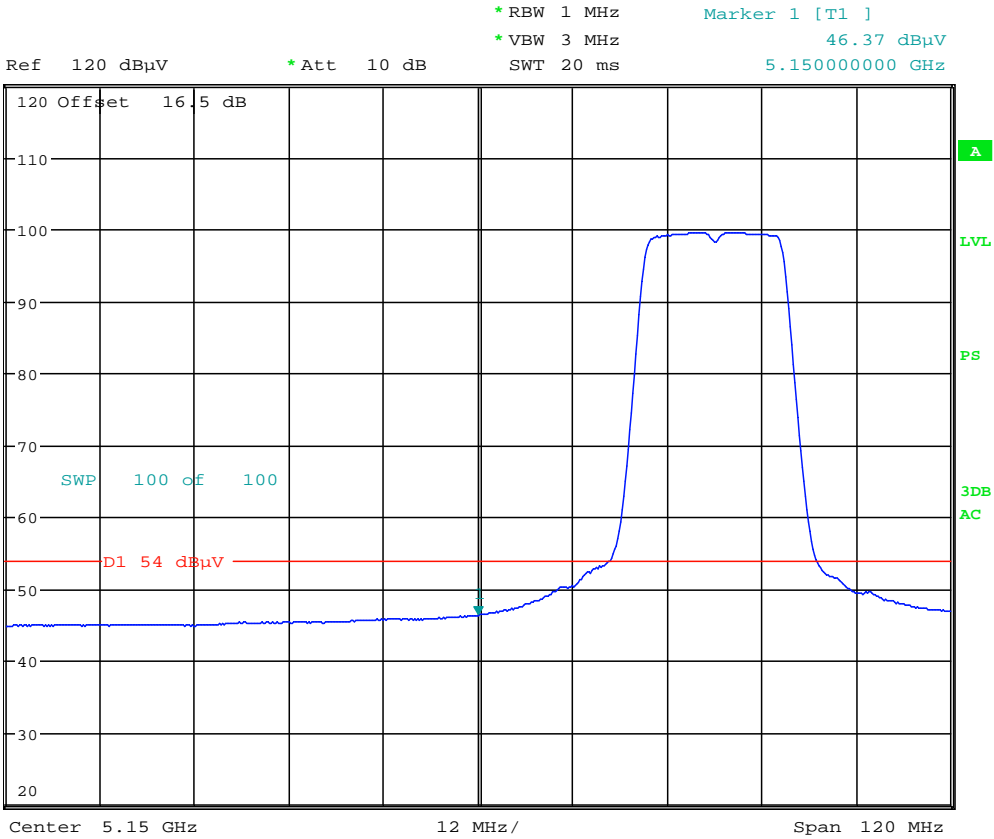
**Table 5-11. Radiated Measurements**

FCC ID: A3LSGHI337		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)		Reviewed by: Quality Manager
Test Report S/N: 0Y1307261452.A3L	Test Dates: 8/5 - 8/15/2013	EUT Type: Portable Handset	Page 16 of 40	



### 5.3 Radiated Band Edge Measurements (20MHz BW) §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

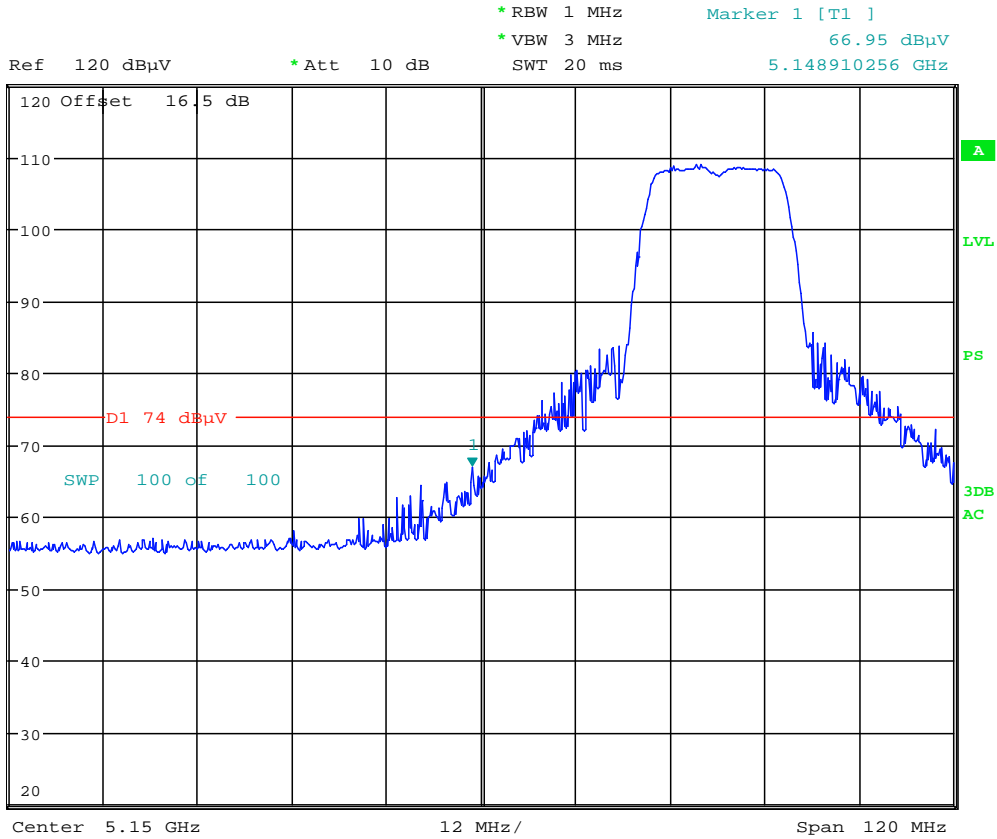


Date: 5.AUG.2013 19:14:43

**Plot 5-1. Radiated Restricted Lower Band Edge Plot (Average – UNII Band 1)**

FCC ID: A3LSGHI337		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)		Reviewed by: Quality Manager
Test Report S/N: 0Y1307261452.A3L	Test Dates: 8/5 - 8/15/2013	EUT Type: Portable Handset	Page 17 of 40	

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



Date: 5.AUG.2013 19:14:11

**Plot 5-2. Radiated Restricted Lower Band Edge Plot (Peak – UNII Band 1)**

<b>FCC ID:</b> A3LSGHI337		<b>FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)</b>		<b>Reviewed by:</b> Quality Manager
<b>Test Report S/N:</b> 0Y1307261452.A3L	<b>Test Dates:</b> 8/5 - 8/15/2013	<b>EUT Type:</b> Portable Handset	Page 18 of 40	

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

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

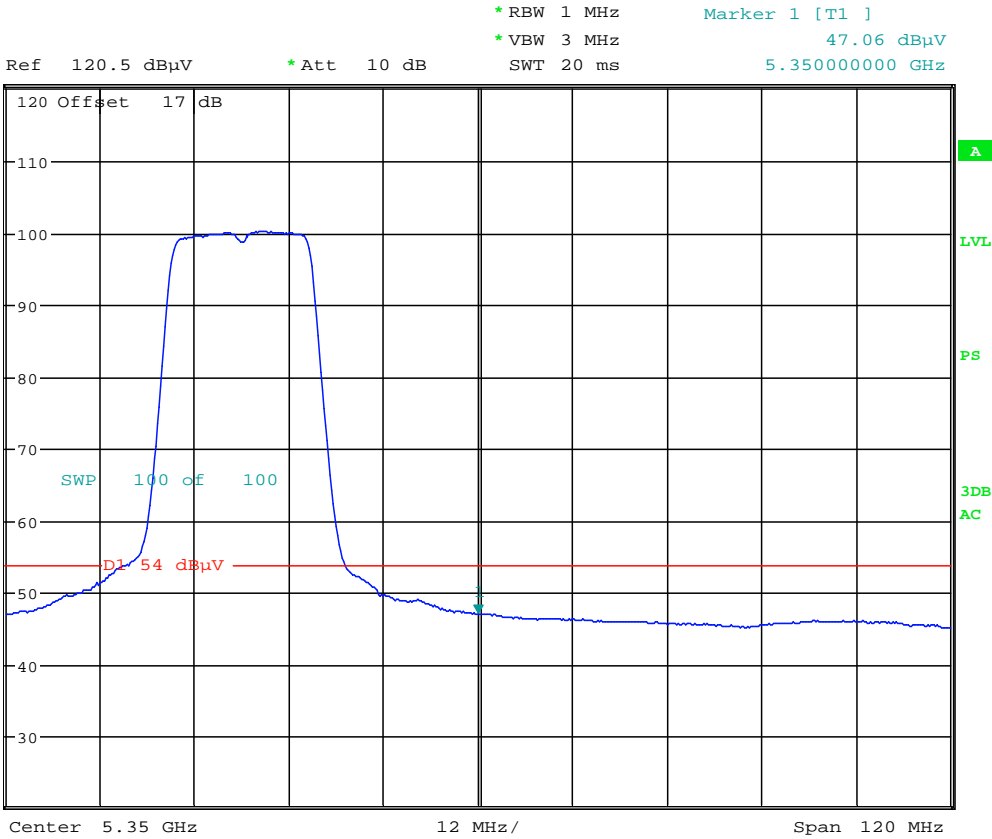
Worst Case Mode: 802.11n (20MHz)

Worst Case Transfer Rate: MCS0

Distance of Measurements: 3 Meters

Operating Frequency: 5320MHz

Channel: 64

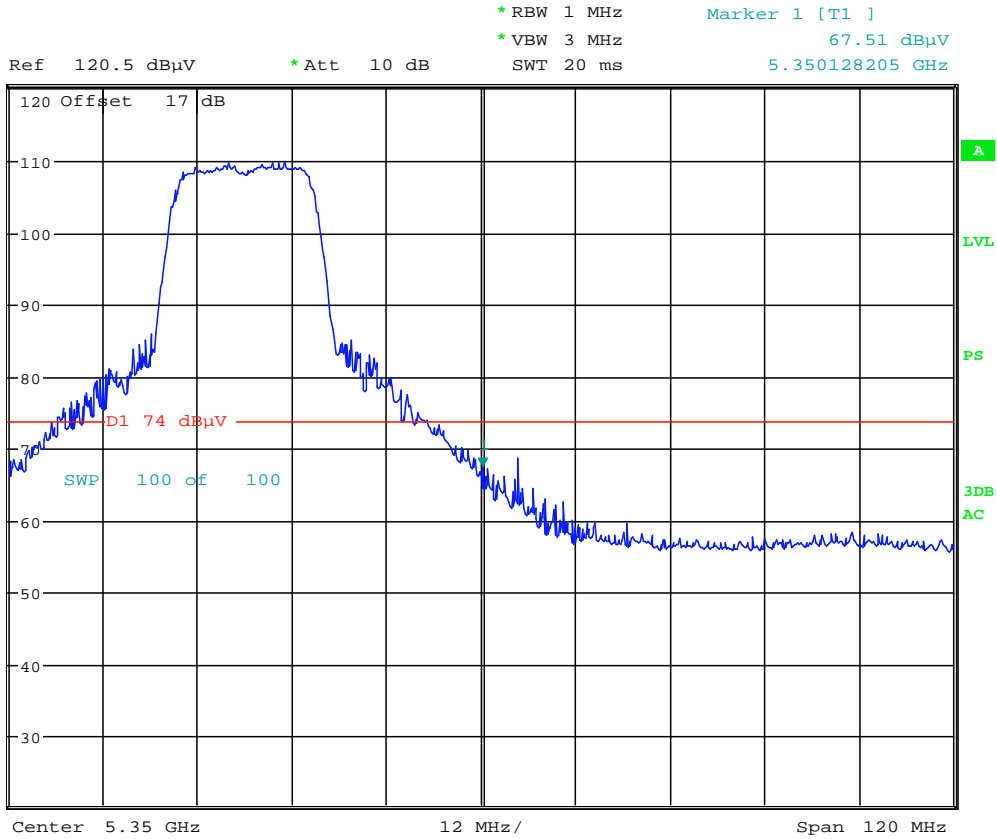


Date: 5.AUG.2013 19:17:39

**Plot 5-3. Radiated Restricted Upper Band Edge Plot (Average – UNII Band 2)**

FCC ID: A3LSGHI337	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)		Reviewed by: Quality Manager
Test Report S/N: 0Y1307261452.A3L	Test Dates: 8/5 - 8/15/2013	EUT Type: Portable Handset	Page 19 of 40	

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



Date: 5.AUG.2013 19:18:41

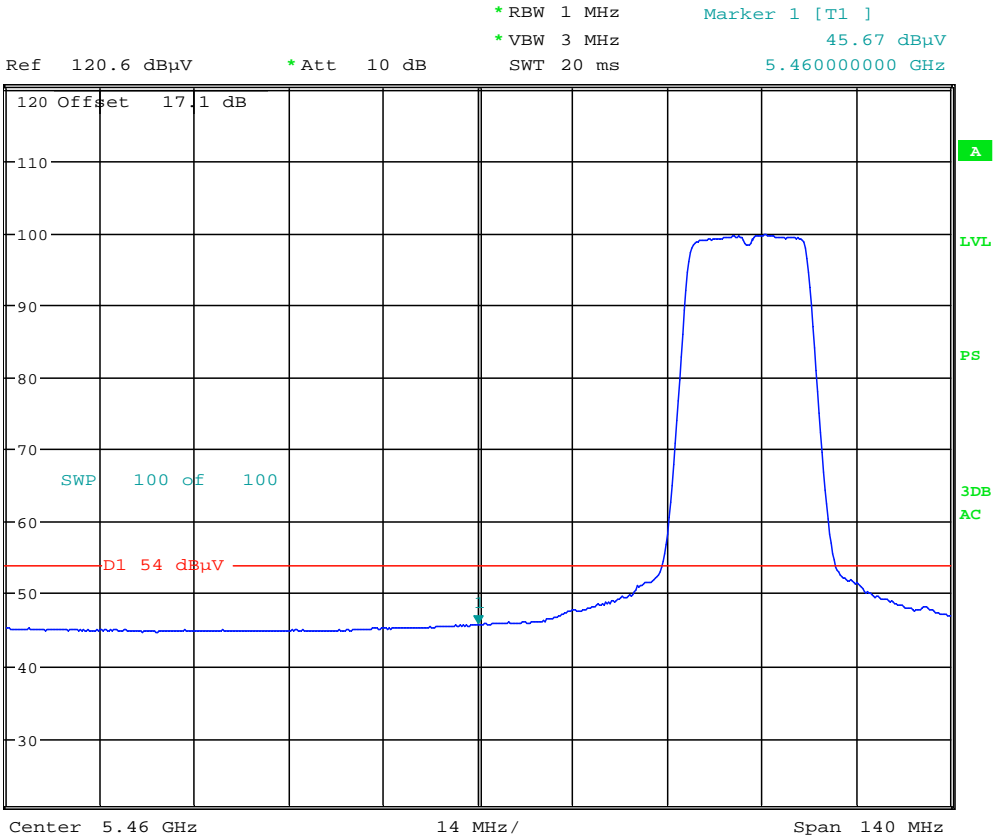
**Plot 5-4. Radiated Restricted Upper Band Edge Plot (Peak – UNII Band 2)**

<b>FCC ID:</b> A3LSGHI337	<b>PCTEST</b> ENGINEERING LABORATORY, INC.	<b>FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT</b> <b>(CLASS II PERMISSIVE CHANGE)</b>		<b>Reviewed by:</b> Quality Manager
<b>Test Report S/N:</b> 0Y1307261452.A3L	<b>Test Dates:</b> 8/5 - 8/15/2013	<b>EUT Type:</b> Portable Handset	Page 20 of 40	

## 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

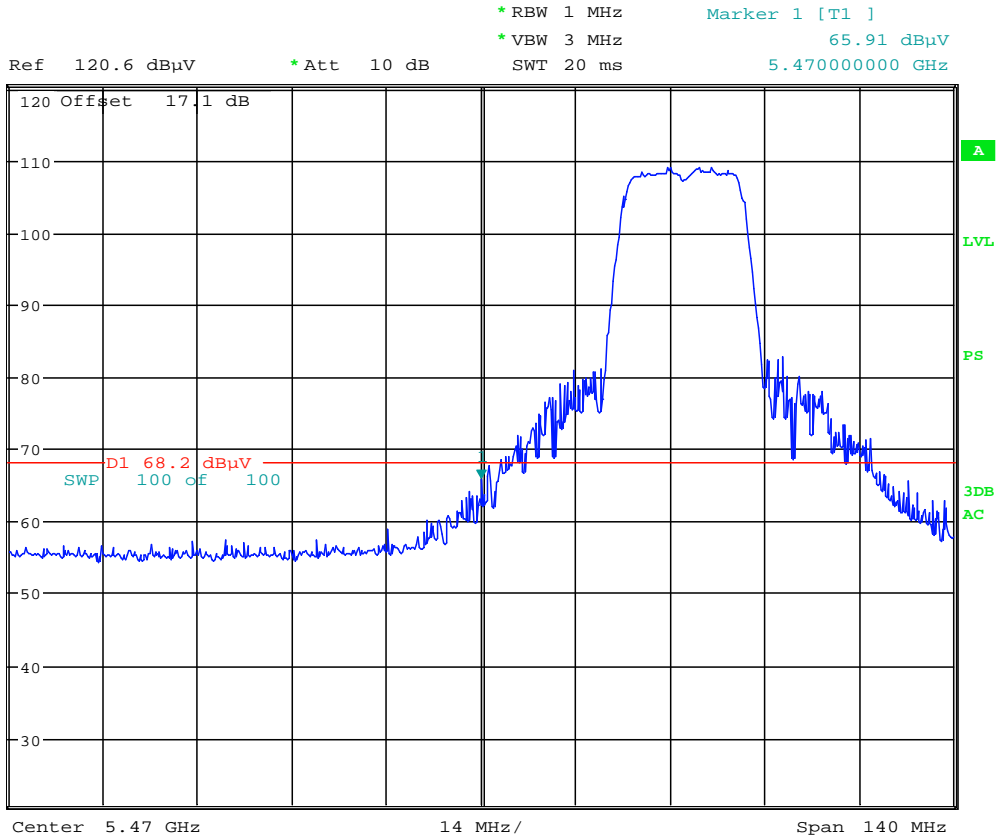


Date: 5.AUG.2013 19:23:57

**Plot 5-5. Radiated Restricted Lower Band Edge Plot (Average – UNII Band 3)**

FCC ID: A3LSGHI337		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)		Reviewed by: Quality Manager
Test Report S/N: 0Y1307261452.A3L	Test Dates: 8/5 - 8/15/2013	EUT Type: Portable Handset	Page 21 of 40	

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

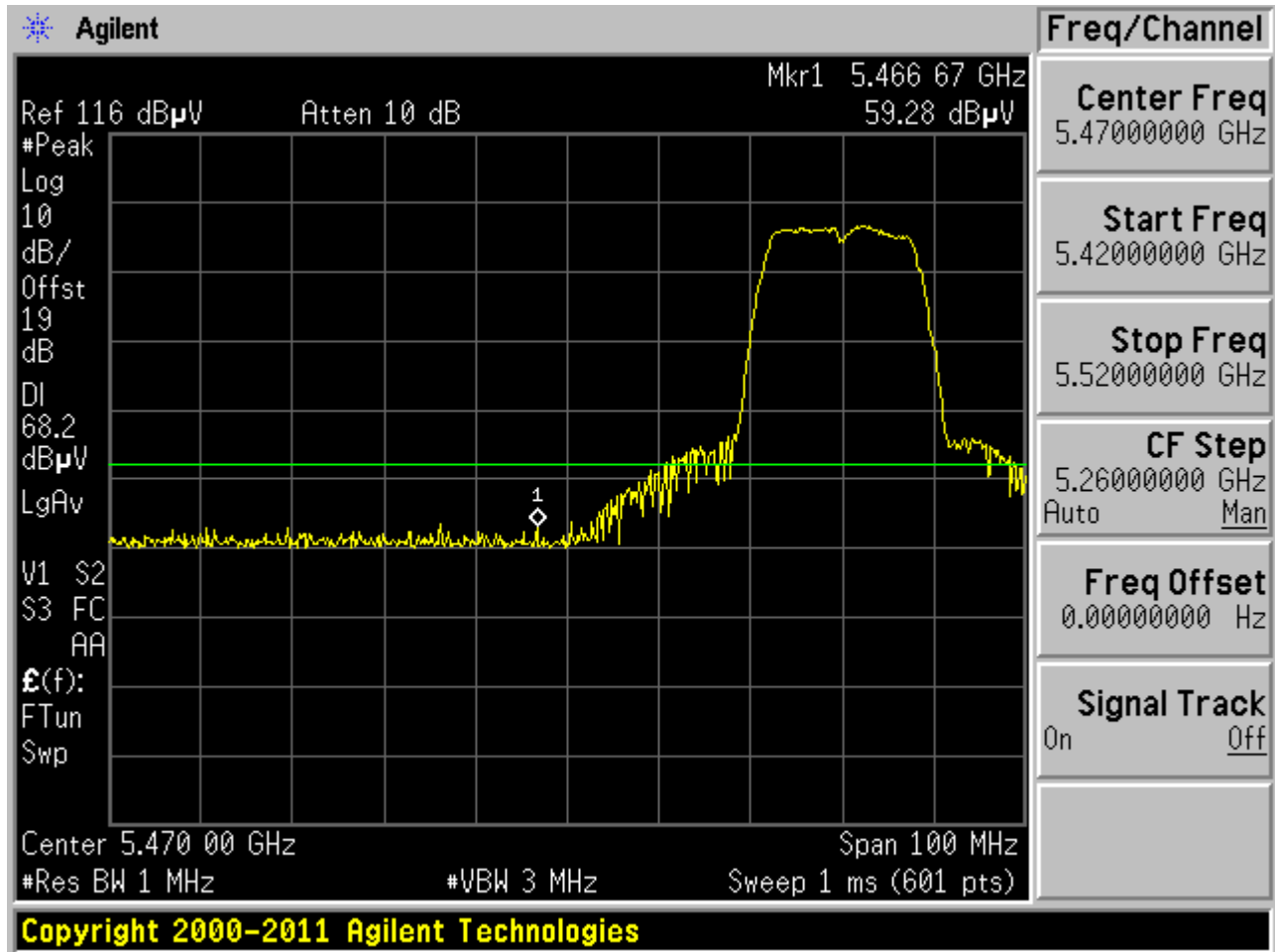


Date: 5.AUG.2013 19:24:43

**Plot 5-6. Radiated Restricted Lower Band Edge Plot (Peak – UNII Band 3)**

FCC ID: A3LSGHI337	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)		Reviewed by: Quality Manager
Test Report S/N: 0Y1307261452.A3L	Test Dates: 8/5 - 8/15/2013	EUT Type: Portable Handset	Page 22 of 40	

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



Plot 5-7. Radiated Restricted Lower Band Edge Plot (Peak – UNII Band 3) with Wireless Charging Cover (WCC)

FCC ID: A3LSGHI337	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)		Reviewed by: Quality Manager
Test Report S/N: 0Y1307261452.A3L	Test Dates: 8/5 - 8/15/2013	EUT Type: Portable Handset		Page 23 of 40

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

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

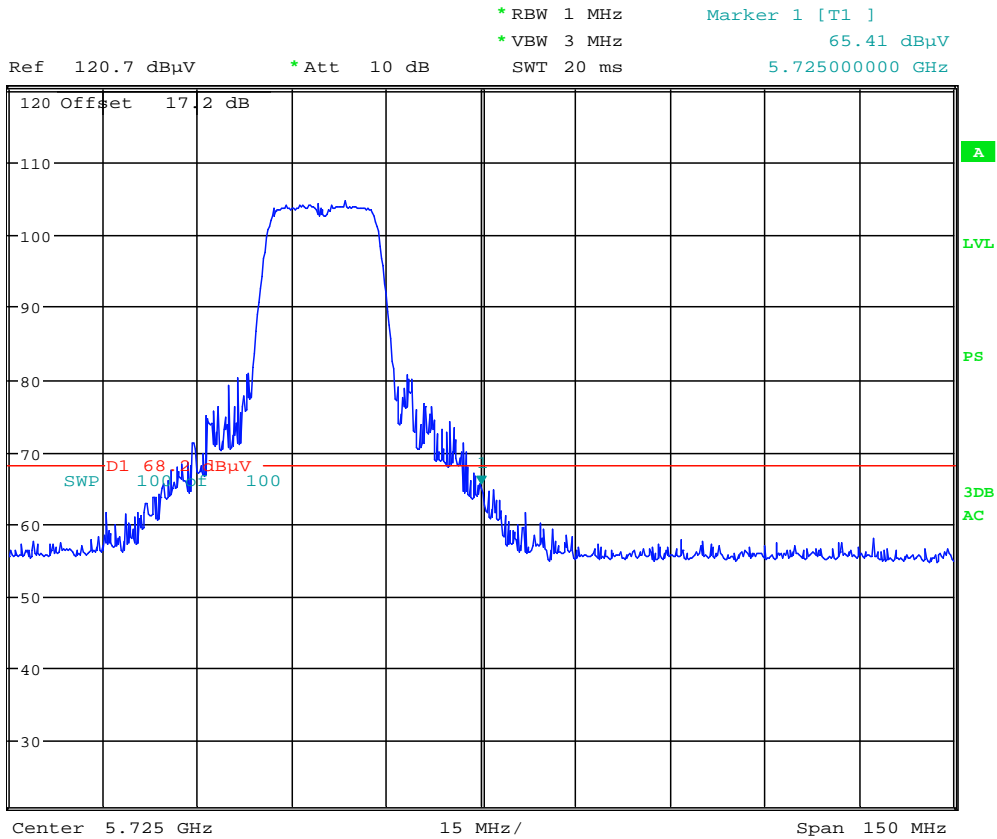
Worst Case Mode: 802.11n (20MHz)

Worst Case Transfer Rate: MCS0

Distance of Measurements: 3 Meters

Operating Frequency: 5700MHz

Channel: 140



Date: 5.AUG.2013 19:29:52

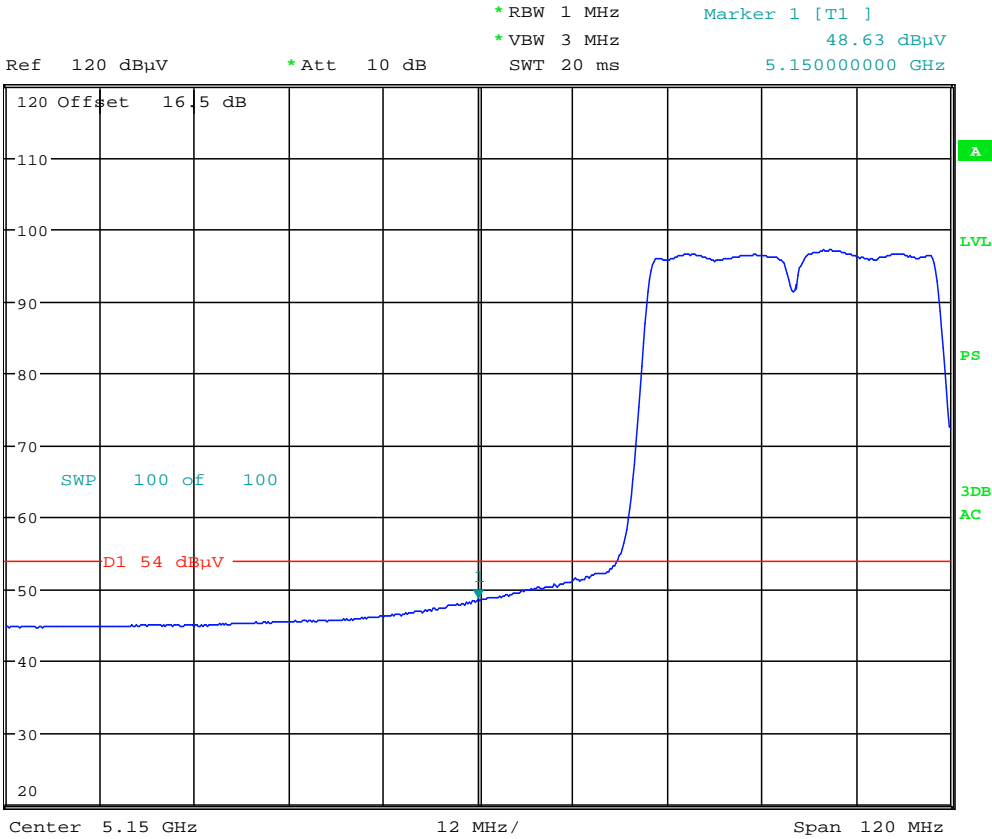
Plot 5-8. Radiated Upper Band Edge Plot (Peak – UNII Band 3)

FCC ID: A3LSGHI337		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)		Reviewed by: Quality Manager
Test Report S/N: 0Y1307261452.A3L	Test Dates: 8/5 - 8/15/2013	EUT Type: Portable Handset		Page 24 of 40



## 5.4 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

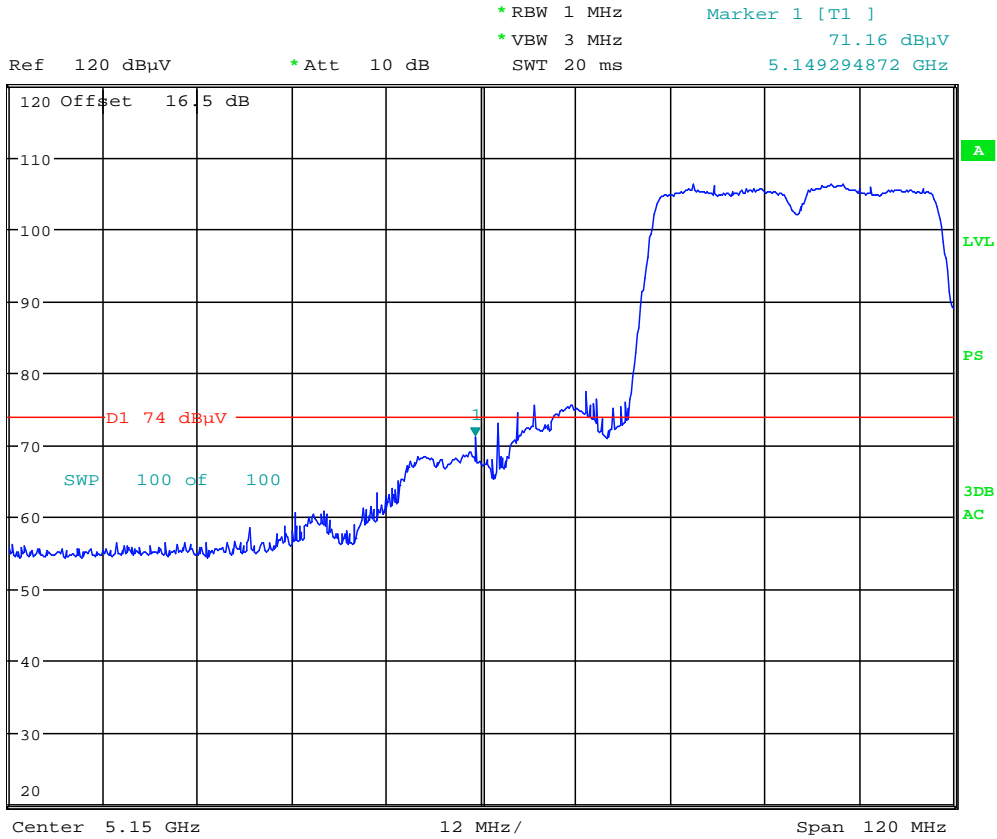


Date: 5.AUG.2013 19:45:15

**Plot 5-9. Radiated Restricted Lower Band Edge Plot (Average – UNII Band 1)**

FCC ID: A3LSGHI337		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)		Reviewed by: Quality Manager
Test Report S/N: 0Y1307261452.A3L	Test Dates: 8/5 - 8/15/2013	EUT Type: Portable Handset	Page 25 of 40	

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



Date: 5.AUG.2013 19:45:35

**Plot 5-10. Radiated Restricted Lower Band Edge Plot (Peak – UNII Band 1)**

<b>FCC ID:</b> A3LSGHI337		<b>FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)</b>		<b>Reviewed by:</b> Quality Manager
<b>Test Report S/N:</b> 0Y1307261452.A3L	<b>Test Dates:</b> 8/5 - 8/15/2013	<b>EUT Type:</b> Portable Handset	Page 26 of 40	

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

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

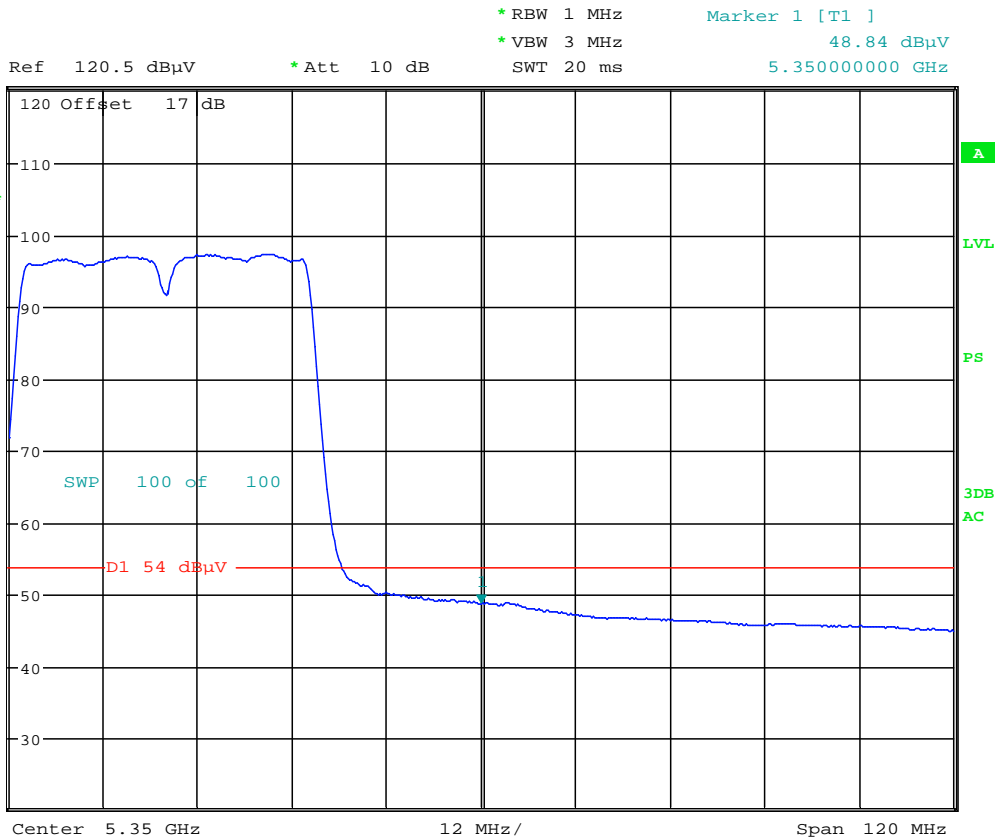
Worst Case Mode: 802.11n (40MHz)

Worst Case Transfer Rate: MCS0

Distance of Measurements: 3 Meters

Operating Frequency: 5310MHz

Channel: 62

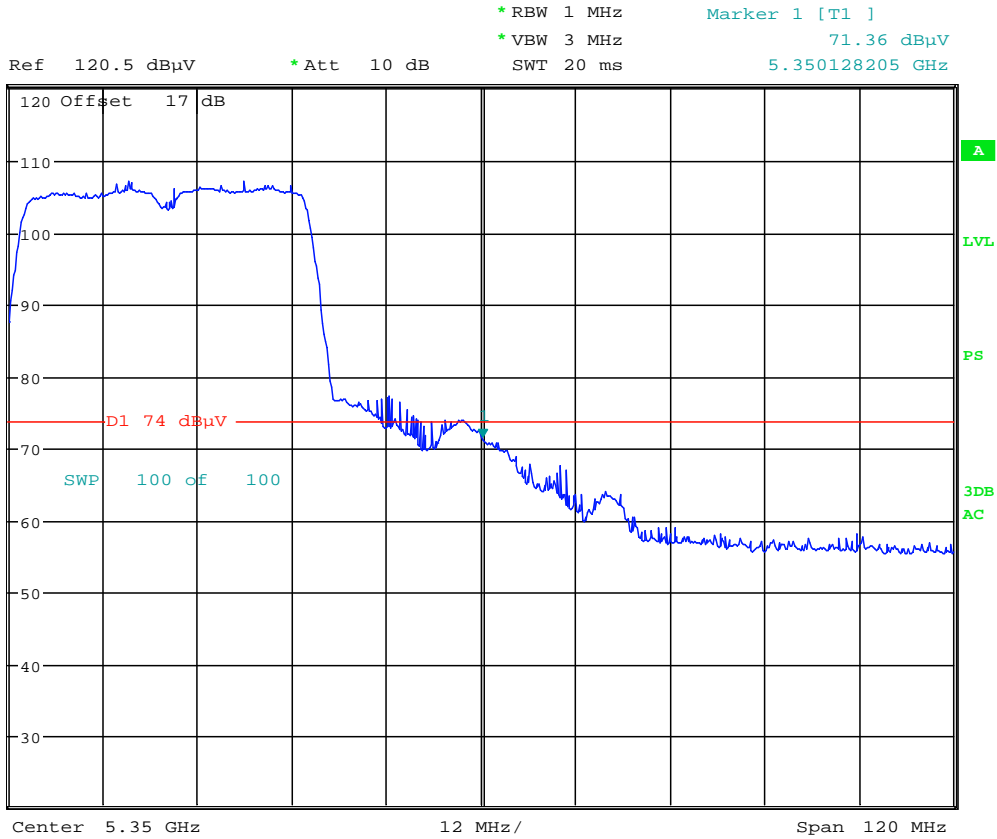


Date: 5.AUG.2013 19:48:55

**Plot 5-11. Radiated Restricted Upper Band Edge Plot (Average – UNII Band 2)**

FCC ID: A3LSGHI337		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)		Reviewed by: Quality Manager
Test Report S/N: 0Y1307261452.A3L	Test Dates: 8/5 - 8/15/2013	EUT Type: Portable Handset	Page 27 of 40	

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



Date: 5.AUG.2013 19:49:26

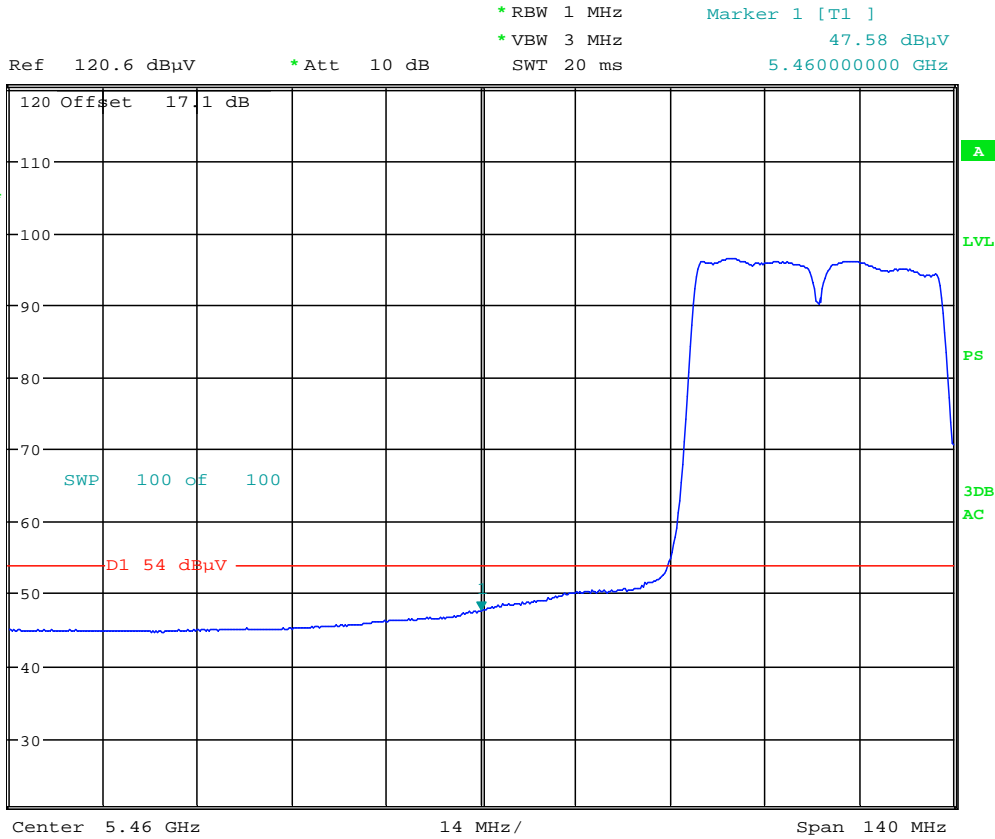
**Plot 5-12. Radiated Restricted Upper Band Edge Plot (Peak – UNII Band 2)**

FCC ID: A3LSGHI337	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)		Reviewed by: Quality Manager
Test Report S/N: 0Y1307261452.A3L	Test Dates: 8/5 - 8/15/2013	EUT Type: Portable Handset	Page 28 of 40	

## 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

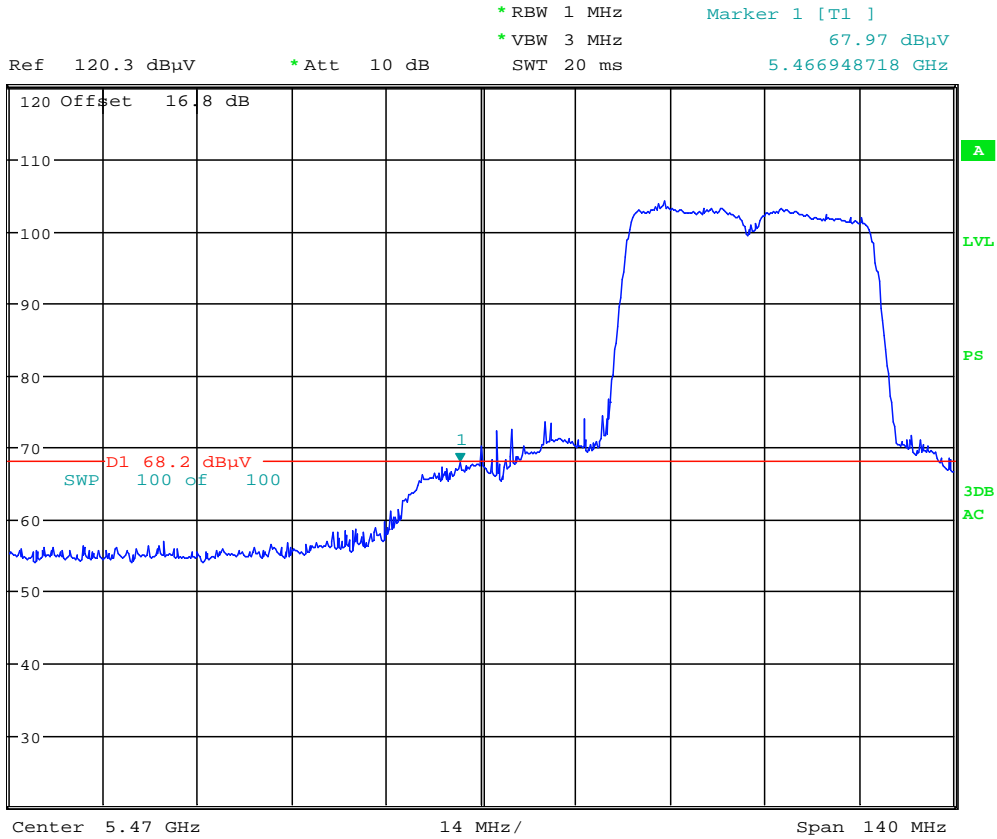


Date: 5.AUG.2013 19:51:22

**Plot 5-13. Radiated Restricted Lower Band Edge Plot (Average – UNII Band 3)**

FCC ID: A3LSGHI337		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)		Reviewed by: Quality Manager
Test Report S/N: 0Y1307261452.A3L	Test Dates: 8/5 - 8/15/2013	EUT Type: Portable Handset	Page 29 of 40	

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

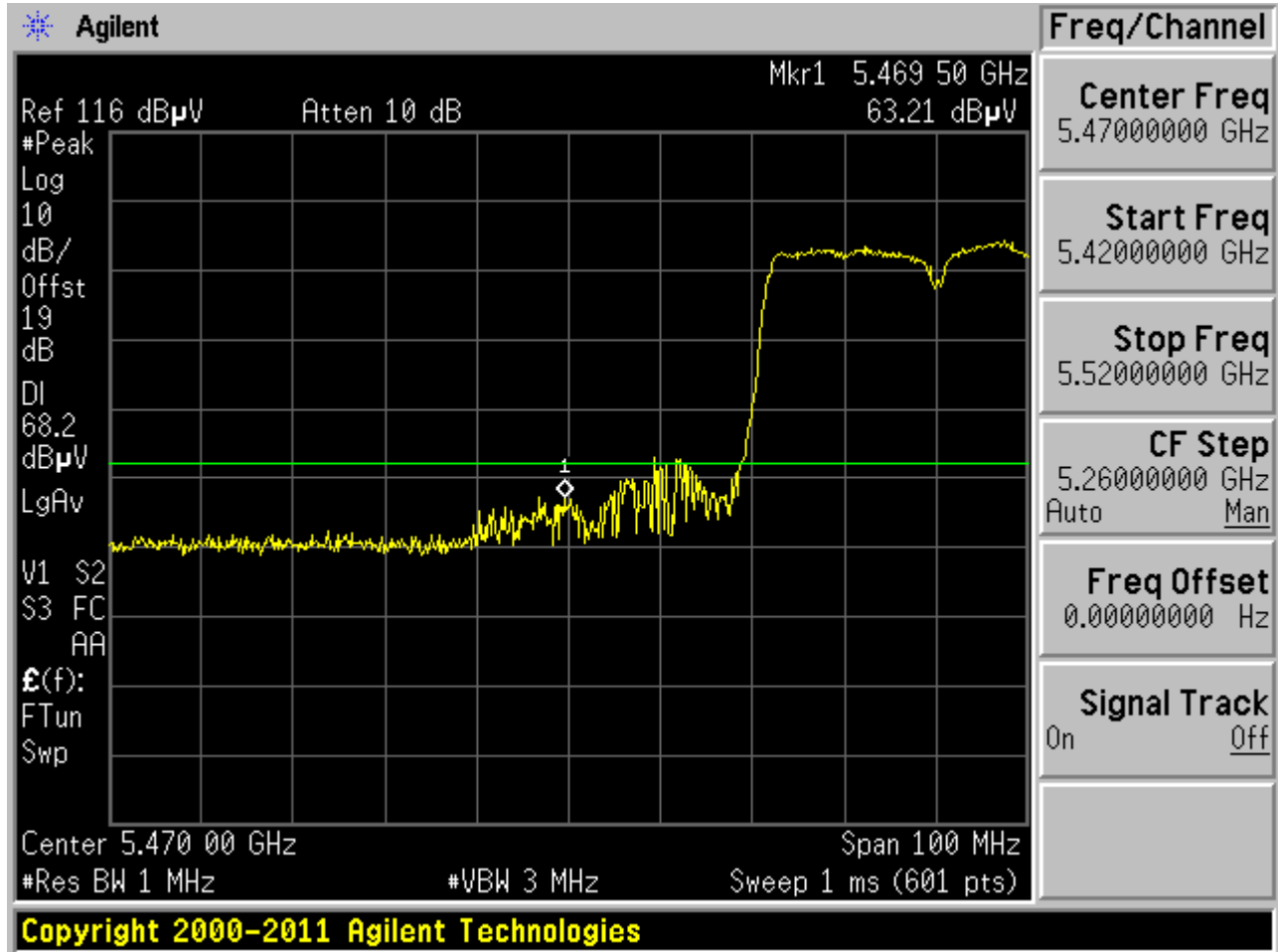


Date: 5.AUG.2013 19:57:02

**Plot 5-14. Radiated Restricted Lower Band Edge Plot (Peak – UNII Band 3)**

FCC ID: A3LSGHI337		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)		Reviewed by: Quality Manager
Test Report S/N: 0Y1307261452.A3L	Test Dates: 8/5 - 8/15/2013	EUT Type: Portable Handset	Page 30 of 40	

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



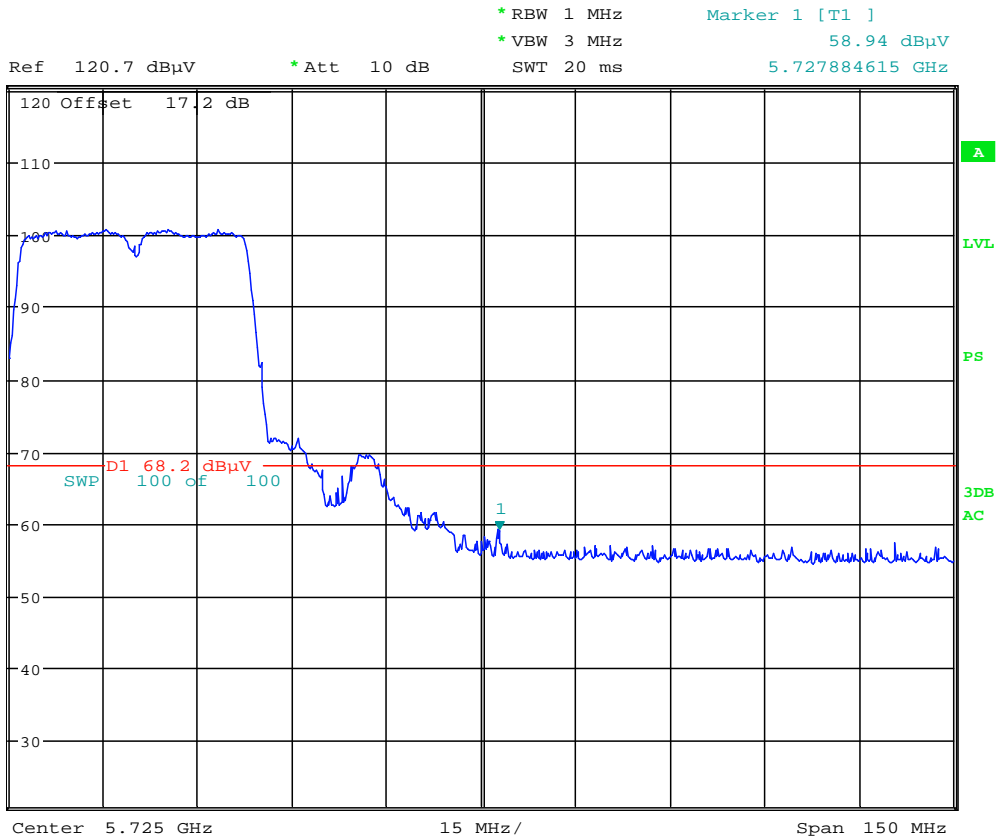
Plot 5-15. Radiated Restricted Lower Band Edge Plot (Peak – UNII Band 3) with WCC

FCC ID: A3LSGHI337	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1307261452.A3L	Test Dates: 8/5 - 8/15/2013	EUT Type: Portable Handset	Page 31 of 40	

### 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



Date: 5.AUG.2013 20:00:35

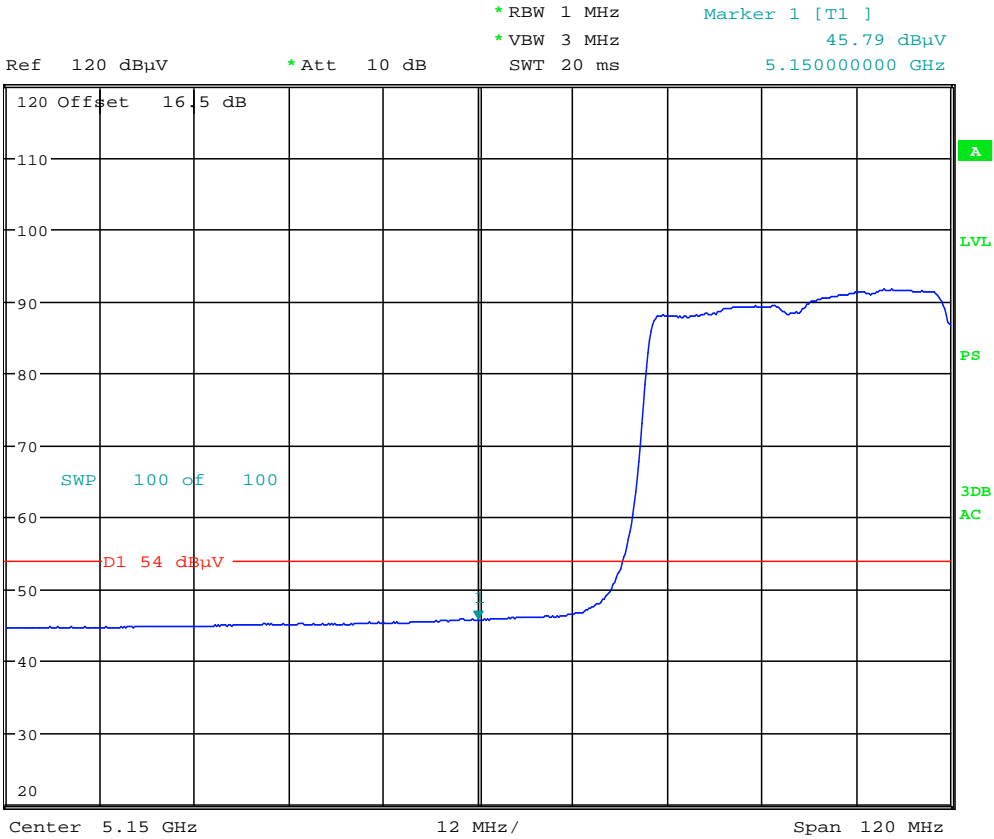
**Plot 5-16. Radiated Upper Band Edge Plot (Peak – UNII Band 3)**

FCC ID: A3LSGHI337		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)		Reviewed by: Quality Manager
Test Report S/N: 0Y1307261452.A3L	Test Dates: 8/5 - 8/15/2013	EUT Type: Portable Handset	Page 32 of 40	



### 5.5 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



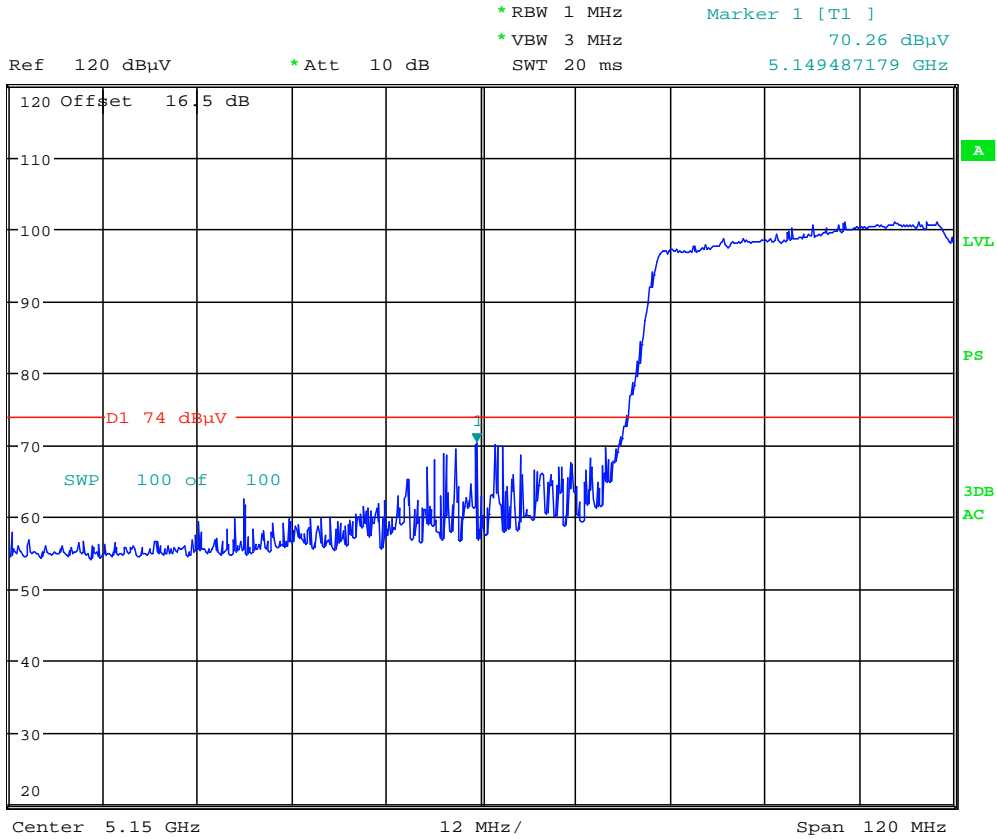
Date: 13.AUG.2013 18:27:19

Plot 5-17. Radiated Restricted Lower Band Edge Plot (Average – UNII Band 1)

FCC ID: A3LSGHI337		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)		Reviewed by: Quality Manager
Test Report S/N: 0Y1307261452.A3L	Test Dates: 8/5 - 8/15/2013	EUT Type: Portable Handset		Page 33 of 40

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

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



Date: 13.AUG.2013 18:27:44

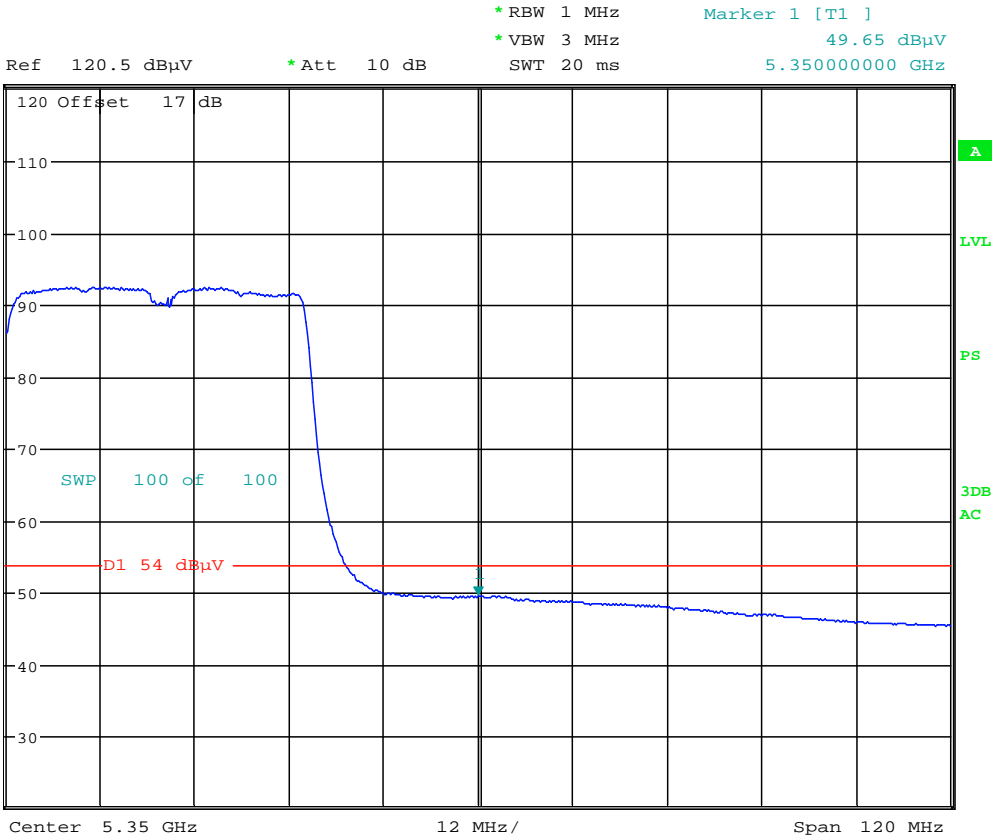
**Plot 5-18. Radiated Restricted Lower Band Edge Plot (Peak – UNII Band 1)**

<b>FCC ID:</b> A3LSGHI337		<b>FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)</b>		<b>Reviewed by:</b> Quality Manager
<b>Test Report S/N:</b> 0Y1307261452.A3L	<b>Test Dates:</b> 8/5 - 8/15/2013	<b>EUT Type:</b> Portable Handset	Page 34 of 40	

## 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

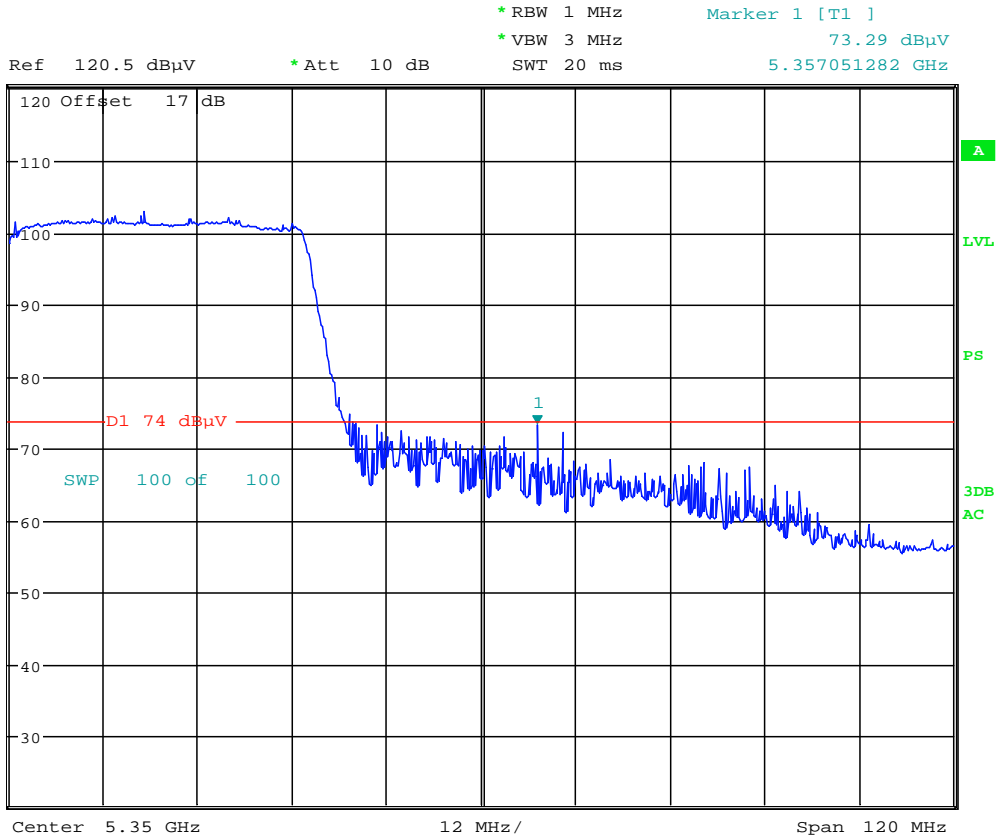


Date: 13.AUG.2013 18:30:38

**Plot 5-19. Radiated Restricted Upper Band Edge Plot (Average – UNII Band 2)**

FCC ID: A3LSGHI337		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)		Reviewed by: Quality Manager
Test Report S/N: 0Y1307261452.A3L	Test Dates: 8/5 - 8/15/2013	EUT Type: Portable Handset	Page 35 of 40	

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



Date: 13.AUG.2013 18:31:14

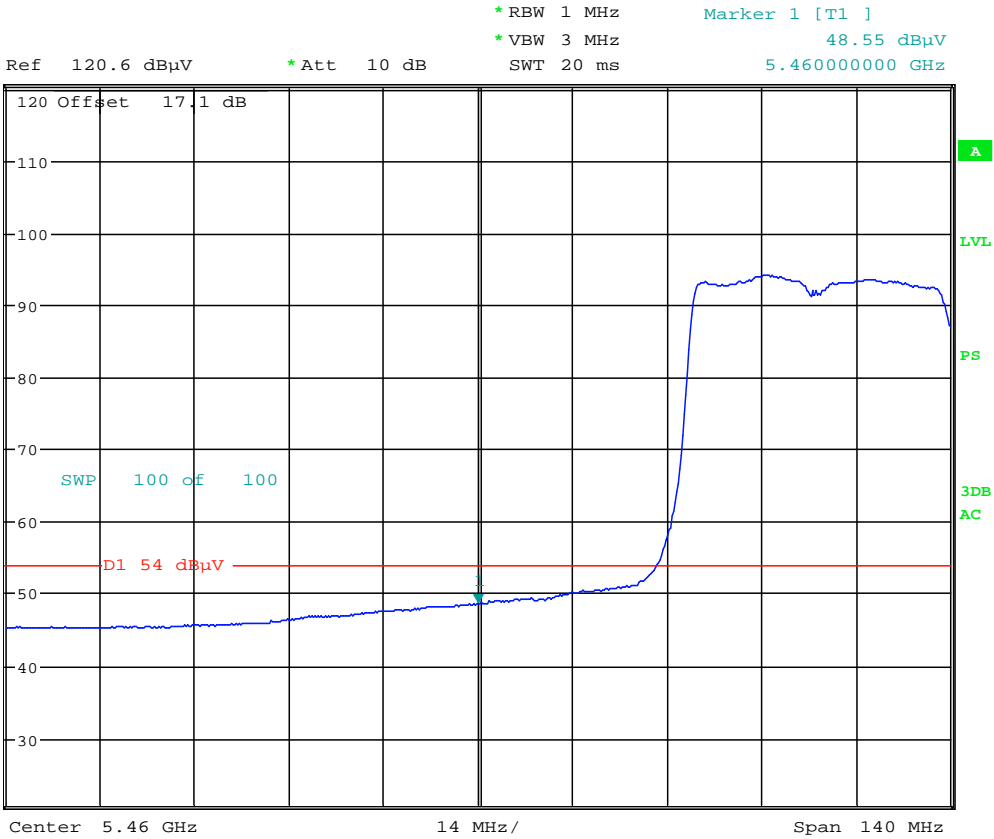
**Plot 5-20. Radiated Restricted Upper Band Edge Plot (Peak – UNII Band 2)**

FCC ID: A3LSGHI337	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1307261452.A3L	Test Dates: 8/5 - 8/15/2013	EUT Type: Portable Handset	Page 36 of 40	

### 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

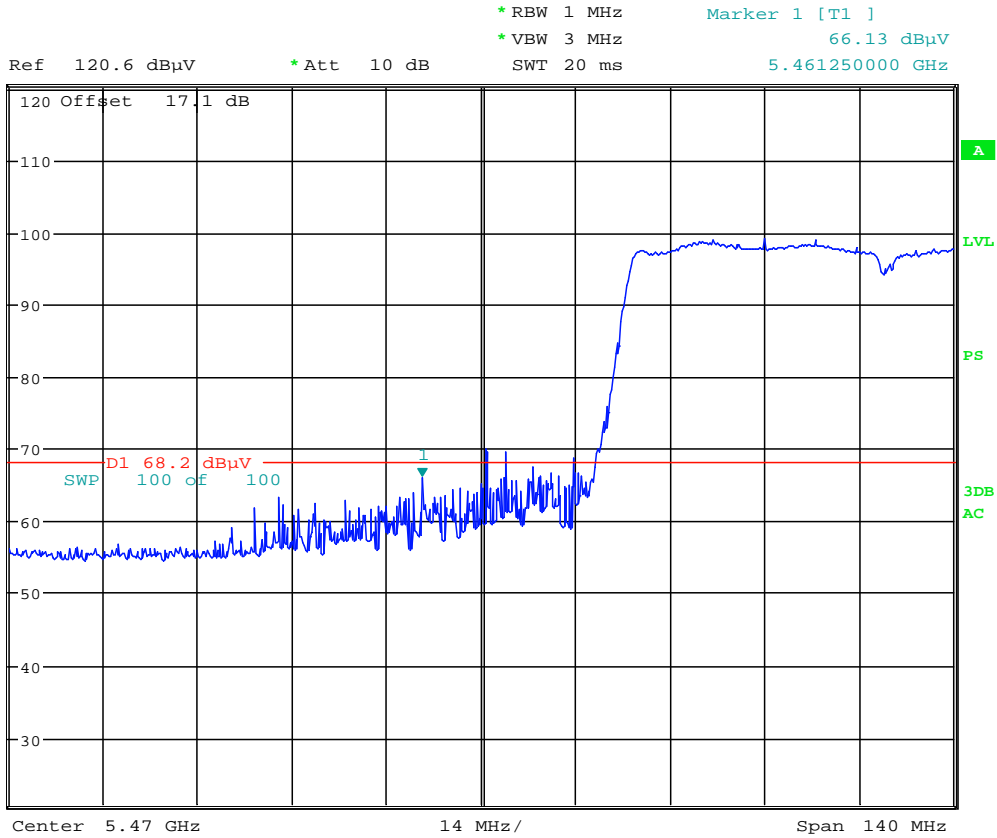


Date: 13.AUG.2013 18:34:53

**Plot 5-21. Radiated Restricted Lower Band Edge Plot (Average – UNII Band 3)**

FCC ID: A3LSGHI337		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)		Reviewed by: Quality Manager
Test Report S/N: 0Y1307261452.A3L	Test Dates: 8/5 - 8/15/2013	EUT Type: Portable Handset	Page 37 of 40	

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

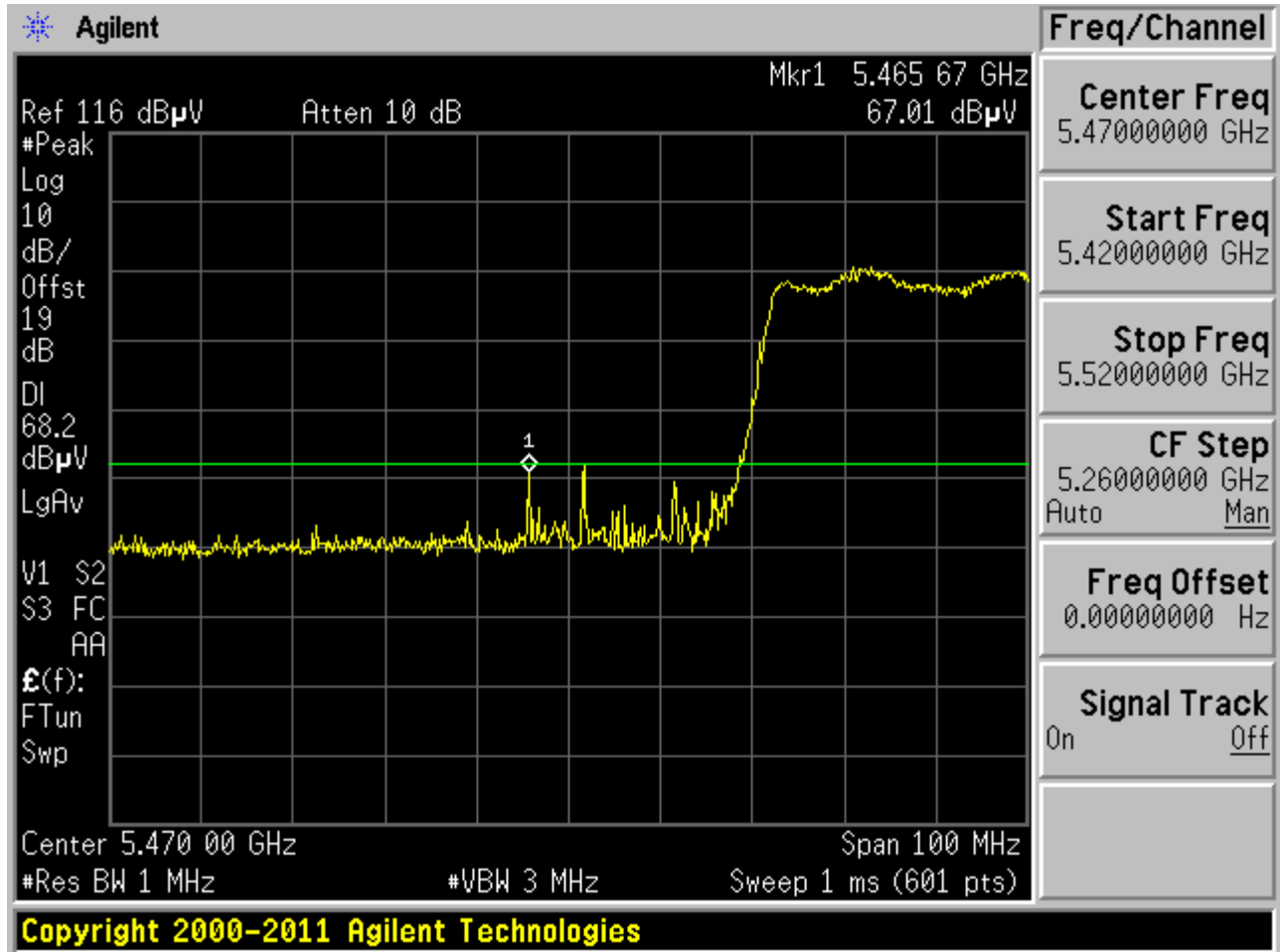


Date: 13.AUG.2013 18:42:30

**Plot 5-22. Radiated Restricted Lower Band Edge Plot (Peak – UNII Band 3)**

FCC ID: A3LSGHI337		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)		Reviewed by: Quality Manager
Test Report S/N: 0Y1307261452.A3L	Test Dates: 8/5 - 8/15/2013	EUT Type: Portable Handset	Page 38 of 40	

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





Plot 5-23. Radiated Restricted Lower Band Edge Plot (Peak – UNII Band 3) with WCC

FCC ID: A3LSGHI337		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)		Reviewed by: Quality Manager
Test Report S/N: 0Y1307261452.A3L	Test Dates: 8/5 - 8/15/2013	EUT Type: Portable Handset	Page 39 of 40	

## 6.0 CONCLUSION

The data collected relate only the item(s) tested and show that the **Samsung Portable Handset FCC ID: A3LSGHI337** is in compliance with Part 15E of the FCC Rules and RSS-210 of the Industry Canada Rules.

<b>FCC ID:</b> A3LSGHI337		<b>FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)</b>		<b>Reviewed by:</b> Quality Manager
<b>Test Report S/N:</b> 0Y1307261452.A3L	<b>Test Dates:</b> 8/5 - 8/15/2013	<b>EUT Type:</b> Portable Handset	Page 40 of 40	