



**FCC 47 CFR PART 15 SUBPART E  
C2PC CERTIFICATION TEST REPORT  
FOR**

**Tablet with Bluetooth, DTS/UNII a/b/g/n/ac & ANT+**

**MODEL NUMBER: SM-T800**

**FCC ID: A3LSMT800**

**REPORT NUMBER: 14U17528-4**

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*Prepared for*

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416, MAETAN 3-DONG, YEONGTONG-GU  
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**NVLAP LAB CODE 200065-0**

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## 1. ATTESTATION OF TEST RESULTS

**COMPANY NAME:** SAMSUNG ELECTRONICS CO., LTD.  
416, MAETAN 3-DONG, YEONGTONG-GU  
SUWON-CITY, GYEONGGI-DO 443-742, SOUTH KOREA

**EUT DESCRIPTION:** Tablet with Bluetooth, DTS/UNII a/b/g/n/ac & ANT+

**MODEL:** SM-T800

**SERIAL NUMBER:** R32F202ZF8E

**DATE TESTED:** April 8 - 22, 2014

| APPLICABLE STANDARDS     |              |
|--------------------------|--------------|
| STANDARD                 | TEST RESULTS |
| CFR 47 Part 15 Subpart E | Pass         |

UL Verification Services Inc. tested the above equipment in accordance with the requirements set forth in the above standards. All indications of Pass/Fail in this report are opinions expressed by UL Verification Services Inc. based on interpretations and/or observations of test results. Measurement Uncertainties were not taken into account and are published for informational purposes only. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

**Note:** The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. This document may not be altered or revised in any way unless done so by UL Verification Services Inc. and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL Verification Services Inc. will constitute fraud and shall nullify the document. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, any agency of the Federal Government, or any agency of any government.

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## 2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with FCC CFR 47 Part 2, FCC CFR 47 Part 15, ANSI C63.4-2009.

## 3. FACILITIES AND ACCREDITATION

The test sites and measurement facilities used to collect data are located at 47173 Benicia Street, Fremont, California, USA.

UL Verification Services Inc. is accredited by NVLAP, Laboratory Code 200065-0. The full scope of accreditation can be viewed at <http://www.ccsemc.com>.

## 4. CALIBRATION AND UNCERTAINTY

### 4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations, and is traceable to recognized national standards.

### 4.2. SAMPLE CALCULATION

Where relevant, the following sample calculation is provided:

$$\begin{aligned} \text{Field Strength (dBuV/m)} &= \text{Measured Voltage (dBuV)} + \text{Antenna Factor (dB/m)} + \\ &\text{Cable Loss (dB)} - \text{Preamplifier Gain (dB)} \\ 36.5 \text{ dBuV} + 18.7 \text{ dB/m} + 0.6 \text{ dB} - 26.9 \text{ dB} &= 28.9 \text{ dBuV/m} \end{aligned}$$

### 4.3. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

| PARAMETER                             | UNCERTAINTY |
|---------------------------------------|-------------|
| Conducted Disturbance, 0.15 to 30 MHz | 3.52 dB     |
| Radiated Disturbance, 30 to 18000 MHz | 4.94 dB     |

Uncertainty figures are valid to a confidence level of 95%.

## 5. EQUIPMENT UNDER TEST

### 5.1. DESCRIPTION OF EUT

The EUT is a Tablet + Bluetooth, DTS/UNII a/b/g/n/ac & ANT+.

### 5.2. MAXIMUM OUTPUT POWER

The transmitter has a maximum conducted output power as follows:

| Frequency Range<br>(MHz) | Mode          | Total Output<br>Power<br>(dBm) | Total Output<br>Power<br>(mW) |
|--------------------------|---------------|--------------------------------|-------------------------------|
| 5180-5240                | 802.11a       | 13.17                          | 20.75                         |
| 5180-5240                | 802.11n HT20  | 13.18                          | 20.80                         |
| 5190-5230                | 802.11n HT40  | 13.69                          | 23.39                         |
| 5210                     | 802.11ac HT80 | 13.06                          | 20.23                         |
| 5260-5320                | 802.11a       | 13.38                          | 21.78                         |
| 5260-5320                | 802.11n HT20  | 13.35                          | 21.63                         |
| 5270-5310                | 802.11n HT40  | 13.6                           | 22.91                         |
| 5290                     | 802.11ac HT80 | 13.21                          | 20.94                         |
| 5500-5700                | 802.11a       | 13.1                           | 20.42                         |
| 5500-5700                | 802.11n HT20  | 12.99                          | 19.91                         |
| 5510-5670                | 802.11n HT40  | 13.54                          | 22.59                         |
| 5530                     | 802.11ac HT80 | 13.68                          | 23.33                         |

The transmitter has average conducted output power as follows:

| Band<br>(GHz) | Mode | Mode                 | Mode   | Ch # | Freq.<br>(MHz) | Avg Pwr (dBm) |         |
|---------------|------|----------------------|--------|------|----------------|---------------|---------|
|               |      |                      |        |      |                | Wi-Fi 1       | Wi-Fi 2 |
| 5.2<br>(UNII) | 1 Tx | 802.11a              | 6 Mbps | 36   | 5180           | 9.9           |         |
|               |      |                      |        | 40   | 5200           | 9.9           |         |
|               |      |                      |        | 44   | 5220           | 10.0          |         |
|               |      |                      |        | 48   | 5240           | 10.0          |         |
|               |      |                      |        | 36   | 5180           |               | 9.9     |
|               |      |                      |        | 40   | 5200           |               | 9.9     |
|               |      |                      |        | 44   | 5220           |               | 10.0    |
|               |      |                      |        | 48   | 5240           |               | 10.0    |
|               | 2 Tx | 36                   | 5180   | 9.9  | 9.9            |               |         |
|               |      | 40                   | 5200   | 9.9  | 9.9            |               |         |
|               |      | 44                   | 5220   | 10.0 | 10.0           |               |         |
|               |      | 48                   | 5240   | 10.0 | 10.0           |               |         |
|               | 1 Tx | 802.11n<br>(HT20)    | MCS0   | 36   | 5180           | 9.8           |         |
|               |      |                      |        | 40   | 5200           | 9.8           |         |
|               |      |                      |        | 48   | 5240           | 9.9           |         |
|               |      |                      |        | 36   | 5180           |               | 9.9     |
|               |      |                      |        | 40   | 5200           |               | 9.8     |
|               |      |                      |        | 48   | 5240           |               | 9.9     |
|               | 2 Tx | 36                   | 5180   | 9.9  | 10.0           |               |         |
|               |      | 40                   | 5200   | 9.9  | 9.9            |               |         |
|               |      | 48                   | 5240   | 9.9  | 10.0           |               |         |
|               | 1 Tx | 802.11n<br>(HT40)    | MCS0   | 38   | 5190           | 9.8           |         |
|               |      |                      |        | 46   | 5230           | 9.8           |         |
|               |      |                      |        | 38   | 5190           |               | 9.8     |
|               |      |                      |        | 46   | 5230           |               | 9.8     |
|               |      |                      |        | 38   | 5190           | 10.0          | 10.0    |
|               |      |                      |        | 46   | 5230           | 9.9           | 10.0    |
|               | 1 Tx | 802.11ac<br>(20 MHz) | MCS0   | 36   | 5180           | 9.7           |         |
|               |      |                      |        | 40   | 5200           | 9.7           |         |
|               |      |                      |        | 48   | 5240           | 9.8           |         |
|               |      |                      |        | 36   | 5180           |               | 9.8     |
|               |      |                      |        | 40   | 5200           |               | 9.9     |
|               |      |                      |        | 48   | 5240           |               | 10.0    |
|               | 2 Tx | 36                   | 5180   | 9.9  | 10.0           |               |         |
|               |      | 40                   | 5200   | 9.8  | 9.9            |               |         |
|               |      | 48                   | 5240   | 9.8  | 10.0           |               |         |
|               | 1 Tx | 802.11ac             | MCS0   | 38   | 5190           | 9.8           |         |

|           |      |                      |        |    |      |      |      |      |
|-----------|------|----------------------|--------|----|------|------|------|------|
|           | 2 Tx | (40 MHz)             |        | 46 | 5230 | 9.8  |      |      |
|           |      |                      |        | 38 | 5190 |      | 10.0 |      |
|           |      |                      |        | 46 | 5230 |      | 10.0 |      |
|           |      |                      |        | 38 | 5190 | 10.0 | 10.0 |      |
|           |      |                      |        | 46 | 5230 | 9.9  | 10.0 |      |
|           | 1 Tx | 802.11ac<br>(80 MHz) | MCS0   | 42 | 5210 | 9.4  |      |      |
|           |      |                      |        | 42 | 5210 |      | 9.5  |      |
|           | 2 Tx |                      |        |    | 42   | 5210 | 9.4  | 9.5  |
| 5.3(UNII) | 1 Tx | 802.11a              | 6 Mbps | 52 | 5260 | 10.2 |      |      |
|           |      |                      |        | 56 | 5280 | 10.2 |      |      |
|           |      |                      |        | 60 | 5300 | 10.2 |      |      |
|           |      |                      |        | 64 | 5320 | 10.2 |      |      |
|           | 1 Tx | 802.11a              | 6 Mbps | 52 | 5260 |      | 10.0 |      |
|           |      |                      |        | 56 | 5280 |      | 9.9  |      |
|           |      |                      |        | 60 | 5300 |      | 9.9  |      |
|           |      |                      |        | 64 | 5320 |      | 10.1 |      |
|           | 2 Tx | 802.11a              | 6 Mbps | 52 | 5260 | 10.2 | 10.0 |      |
|           |      |                      |        | 56 | 5280 | 10.2 | 9.9  |      |
|           |      |                      |        | 60 | 5300 | 10.2 | 9.9  |      |
|           |      |                      |        | 64 | 5320 | 10.2 | 10.1 |      |
|           | 1 Tx | 802.11n<br>(HT20)    | MCS0   | 52 | 5260 | 10.0 |      |      |
|           |      |                      |        | 60 | 5300 | 10.2 |      |      |
|           |      |                      |        | 64 | 5320 | 10.1 |      |      |
|           |      |                      |        | 52 | 5260 |      | 9.9  |      |
|           |      |                      |        | 60 | 5300 |      | 9.8  |      |
|           |      |                      |        | 64 | 5320 |      | 10.0 |      |
|           | 2 Tx |                      |        |    | 52   | 5260 | 10.2 | 9.9  |
|           |      |                      |        |    | 60   | 5300 | 10.3 | 9.9  |
|           |      |                      |        |    | 64   | 5320 | 10.3 | 10.0 |
|           | 1 Tx | 802.11n<br>(HT40)    | MCS0   | 54 | 5270 | 10.4 |      |      |
|           |      |                      |        | 62 | 5310 | 10.5 |      |      |
|           |      |                      |        | 54 | 5270 |      | 10.2 |      |
|           |      |                      |        | 62 | 5310 |      | 10.3 |      |
|           | 2 Tx |                      |        |    | 54   | 5270 | 10.5 | 10.2 |
|           |      |                      |        |    | 62   | 5310 | 10.5 | 10.3 |
|           | 1 Tx | 802.11ac<br>(20 MHz) | MCS0   | 52 | 5260 | 10.2 |      |      |
|           |      |                      |        | 60 | 5300 | 10.3 |      |      |
|           |      |                      |        | 64 | 5320 | 10.3 |      |      |
|           |      |                      |        | 52 | 5260 |      | 9.9  |      |
|           |      |                      |        | 60 | 5300 |      | 10.0 |      |

|           |      |                      |        |     |      |      |      |
|-----------|------|----------------------|--------|-----|------|------|------|
|           | 2 Tx |                      |        | 64  | 5320 |      | 9.9  |
|           |      |                      |        | 52  | 5260 | 10.2 | 9.9  |
|           |      |                      |        | 60  | 5300 | 10.3 | 10.0 |
|           |      |                      |        | 64  | 5320 | 10.3 | 10.0 |
|           | 1 Tx | 802.11ac<br>(40 MHz) | MCS0   | 54  | 5270 | 9.8  |      |
|           |      |                      |        | 62  | 5310 | 9.8  |      |
|           |      |                      |        | 54  | 5270 |      | 10.0 |
|           |      |                      |        | 62  | 5310 |      | 9.9  |
|           | 2 Tx |                      |        | 54  | 5270 | 9.8  | 10.0 |
|           |      |                      |        | 62  | 5310 | 9.8  | 10.0 |
|           | 1 Tx | 802.11ac<br>(80 MHz) | MCS0   | 58  | 5290 | 9.8  |      |
|           |      |                      |        | 58  | 5290 |      | 9.7  |
|           | 2 Tx |                      |        | 58  | 5290 | 9.9  | 9.7  |
| 5.5(UNII) | 1 Tx | 802.11a              | 6 Mbps | 100 | 5500 | 9.8  |      |
|           |      |                      |        | 140 | 5700 | 10.0 |      |
|           |      |                      |        | 100 | 5500 |      | 9.9  |
|           |      |                      |        | 140 | 5700 |      | 9.9  |
|           | 2 Tx |                      |        | 100 | 5500 | 9.8  | 9.9  |
|           |      |                      |        | 140 | 5700 | 10.0 | 9.9  |
|           | 1 Tx | 802.11n<br>(HT20)    | MCS0   | 100 | 5500 | 9.7  |      |
|           |      |                      |        | 140 | 5700 | 9.7  |      |
|           |      |                      |        | 100 | 5500 |      | 9.8  |
|           |      |                      |        | 140 | 5700 |      | 9.8  |
|           | 2 Tx |                      |        | 100 | 5500 | 9.8  | 9.9  |
|           |      |                      |        | 140 | 5700 | 9.8  | 9.9  |
|           | 1 Tx | 802.11n<br>(HT40)    | MCS0   | 102 | 5510 | 10.0 |      |
|           |      |                      |        | 134 | 5670 | 10.0 |      |
|           |      |                      |        | 102 | 5510 |      | 10.0 |
|           |      |                      |        | 134 | 5670 |      | 9.9  |
|           | 2 Tx |                      |        | 102 | 5510 | 9.9  | 10.2 |
|           |      |                      |        | 134 | 5670 | 10.0 | 10.2 |
|           | 1 Tx | 802.11ac<br>(20 MHz) | MCS0   | 100 | 5500 | 9.8  |      |
|           |      |                      |        | 140 | 5700 | 9.8  |      |
|           |      |                      |        | 100 | 5500 |      | 9.9  |
|           |      |                      |        | 140 | 5700 |      | 9.9  |
|           | 2 Tx |                      |        | 100 | 5500 | 9.8  | 9.9  |
|           |      |                      |        | 140 | 5700 | 9.8  | 9.9  |
|           | 1 Tx | 802.11ac<br>(40 MHz) | MCS0   | 102 | 5510 | 9.9  |      |
|           |      |                      |        | 134 | 5670 | 9.9  |      |
|           |      |                      |        | 102 | 5510 |      | 10.1 |
|           |      |                      |        | 134 | 5670 |      | 10.2 |

|  |      |                      |      |     |      |      |      |
|--|------|----------------------|------|-----|------|------|------|
|  | 2 Tx | 802.11ac<br>(80 MHz) | MCS0 | 102 | 5510 | 9.9  | 10.2 |
|  |      |                      |      | 134 | 5670 | 10.0 | 10.2 |
|  | 1 Tx |                      |      | 106 | 5530 | 9.9  |      |
|  |      |                      |      | 106 | 5530 |      | 9.6  |
|  | 2 Tx |                      |      | 106 | 5530 | 9.5  | 9.7  |

### 5.3. DESCRIPTION OF AVAILABLE ANTENNAS

The radio utilizes two FPCB antennas, with a maximum gain of -2.01 dBi and 1.35 dBi for 5.8GHz.

### 5.4. List of test reduction and modes covering other modes:

| 5.2GHz BAND Authorized Frequency Band (Antenna Port & Radiated Testing) |                          |                        |
|-------------------------------------------------------------------------|--------------------------|------------------------|
| Frequency Range (MHz)                                                   | Mode                     | Covered by             |
| 5180 - 5240                                                             | 802.11a Legacy 1TX       | 802.11a CDD 2TX        |
| 5180 - 5240                                                             | 802.11n/ac HT20 1TX      | 802.11n HT20 CDD 2TX   |
| 5180 - 5240                                                             | 802.11n/ac HT20 STBC 2TX | 802.11n HT20 CDD 2TX   |
| 5190 - 5230                                                             | 802.11n/ac HT40 1TX      | 802.11n HT40 CDD 2TX   |
| 5190 - 5230                                                             | 802.11n/ac HT40 STBC 2TX | 802.11n HT40 CDD 2TX   |
| 5210                                                                    | 802.11ac VHT80 1TX       | 802.11ac VHT80 CDD 2TX |
| 5210                                                                    | 802.11ac VHT80 STBC 2TX  | 802.11ac VHT80 CDD 2TX |

| 5.3GHz BAND Authorized Frequency Band (Antenna Port & Radiated Testing) |                          |                        |
|-------------------------------------------------------------------------|--------------------------|------------------------|
| Frequency Range (MHz)                                                   | Mode                     | Covered by             |
| 5260 - 5320                                                             | 802.11a Legacy 1TX       | 802.11a CDD 2TX        |
| 5260 - 5320                                                             | 802.11n/ac HT20 1TX      | 802.11n HT20 CDD 2TX   |
| 5260 - 5320                                                             | 802.11n/ac HT20 STBC 2TX | 802.11n HT20 CDD 2TX   |
| 5270 - 5310                                                             | 802.11n/ac HT40 1TX      | 802.11n HT40 CDD 2TX   |
| 5270 - 5310                                                             | 802.11n/ac HT40 STBC 2TX | 802.11n HT40 CDD 2TX   |
| 5290                                                                    | 802.11ac VHT80 1TX       | 802.11ac VHT80 CDD 2TX |
| 5290                                                                    | 802.11ac VHT80 STBC 2TX  | 802.11ac VHT80 CDD 2TX |

| 5.6GHz BAND Authorized Frequency Band (Antenna Port & Radiated Testing) |                          |                        |
|-------------------------------------------------------------------------|--------------------------|------------------------|
| Frequency Range (MHz)                                                   | Mode                     | Covered by             |
| 5500 - 5700                                                             | 802.11a Legacy 1TX       | 802.11a CDD 2TX        |
| 5500 - 5700                                                             | 802.11n/ac HT20 1TX      | 802.11n HT20 CDD 2TX   |
| 5500 - 5700                                                             | 802.11n/ac HT20 STBC 2TX | 802.11n HT20 CDD 2TX   |
| 5510 - 5670                                                             | 802.11n/ac HT40 1TX      | 802.11n HT40 CDD 2TX   |
| 5510 - 5670                                                             | 802.11n/ac HT40 STBC 2TX | 802.11n HT40 CDD 2TX   |
| 5530                                                                    | 802.11ac VHT80 1TX       | 802.11ac VHT80 CDD 2TX |
| 5530                                                                    | 802.11ac VHT80 STBC 2TX  | 802.11ac VHT80 CDD 2TX |

## **5.5. WORST-CASE CONFIGURATION AND MODE**

Radiated emission and power line conducted emission were performed with the EUT set to transmit at the channel with highest output power as worst-case scenario.

The fundamental of the EUT was investigated in three orthogonal orientations X,Y,Z, it was determined that the X orientation was worst-case orientation; therefore, all final radiated testing was performed with the EUT in the X orientation.

Based on the baseline scan, the worst-case data rates were:

802.11a mode: 6 Mbps

802.11n HT20mode: MCS0

802.11n HT40mode: MCS0

802.11ac VHT80mode: MCS0

Both one port and two ports transmit configuration were verified. 2x2 CDD mode was the worst case which has equal or higher power than the other configurations.

## 5.6. DESCRIPTION OF TEST SETUP

### SUPPORT EQUIPMENT

| Support Equipment List |              |         |               |        |
|------------------------|--------------|---------|---------------|--------|
| Description            | Manufacturer | Model   | Serial Number | FCC ID |
| AC Adapter             | Samsung      | Samsung | N/A           | N/A    |
| Earphone               | Samsung      | Samsung | N/A           | N/A    |

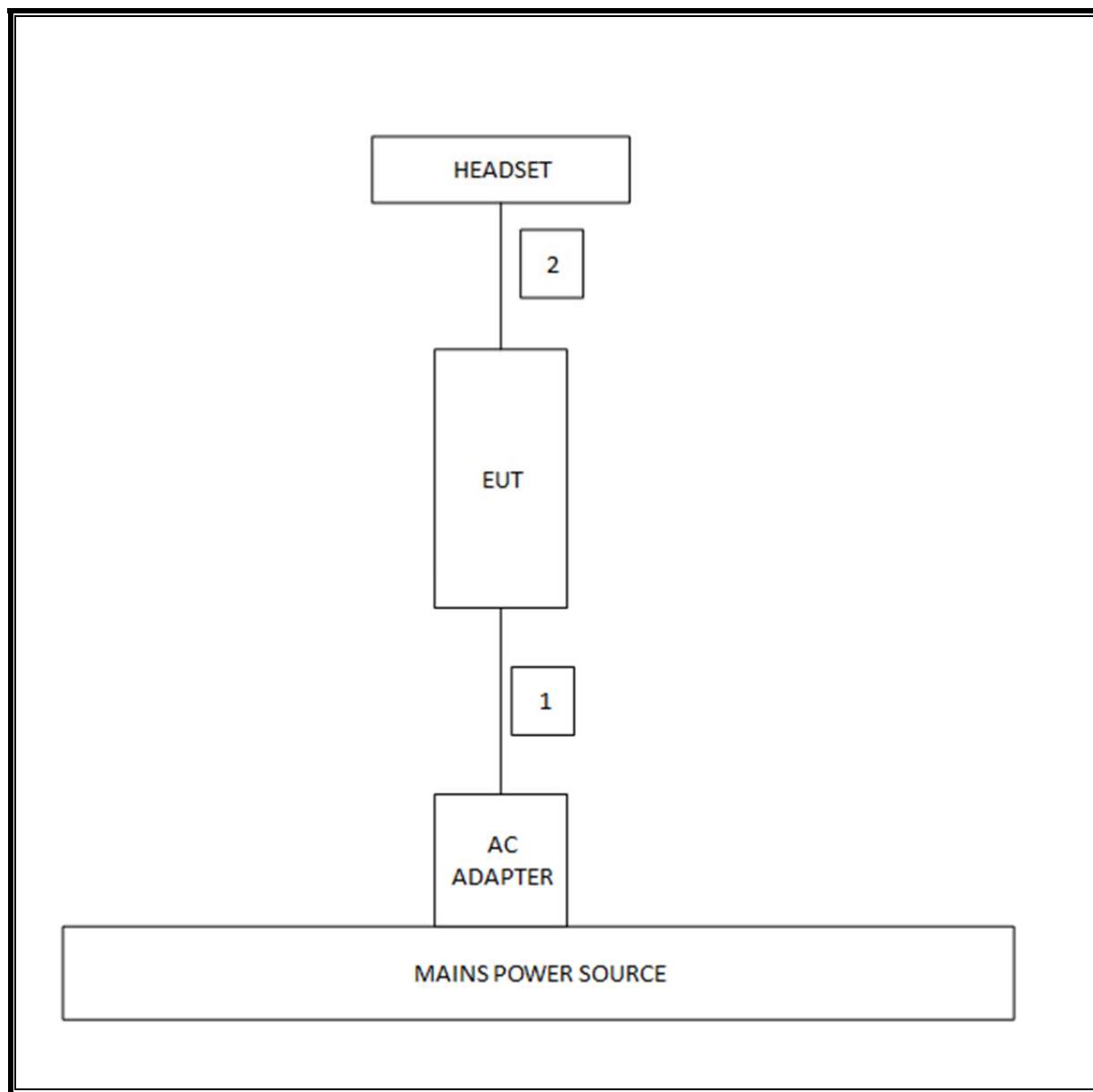
### I/O CABLES

| I/O Cable List |          |                      |                |            |                  |         |
|----------------|----------|----------------------|----------------|------------|------------------|---------|
| Cable No       | Port     | # of identical ports | Connector Type | Cable Type | Cable Length (m) | Remarks |
| 1              | DC Power | 1                    | Mini-USB       | Shielded   | 1.2m             | N/A     |
| 2              | Audio    | 1                    | Mini-Jack      | Unshielded | 1.0m             | N/A     |

### TEST SETUP

The EUT is setup as a stand-alone device.

**SETUP DIAGRAM FOR TESTS**



## 6. TEST AND MEASUREMENT EQUIPMENT

The following test and measurement equipment was utilized for the tests documented in this report:

| Test Equipment List                |                |             |         |          |
|------------------------------------|----------------|-------------|---------|----------|
| Description                        | Manufacturer   | Model       | Asset   | Cal Due  |
| Spectrum Analyzer, 44 GHz          | Agilent / HP   | E4446A      | C01069  | 12/20/14 |
| Spectrum Analyzer, 9KHz-40GHz      | HP             | 8564E       | C00986  | 04/01/15 |
| EMI Test Receiver, 9 kHz-7 GHz     | R & S          | ESCI 7      | 1000741 | 08/13/14 |
| EMI Test Receiver, 30 MHz          | R & S          | ESHS 20     | N02396  | 08/18/14 |
| Peak Power Meter                   | Agilent / HP   | E4416A      | C00963  | 12/13/14 |
| Peak / Average Power Sensor        | Agilent / HP   | E9327A      | C00964  | 12/13/14 |
| Antenna, Horn, 1-18 GHz            | ETS            | 3117        | C01022  | 02/21/15 |
| Antenna, Horn, 18- 26 GHz          | ARA            | MWH-1826/B  | C00946  | 11/12/14 |
| Antenna, Horn, 26-40 GHz           | ARA            | MWH-2640    | C00891  | 06/28/14 |
| Antenna, Bilog, 30MHz-1 GHz        | Sunol Sciences | JB1         | T243    | 03/06/15 |
| RF Preamplifier, 100KHz -> 1300MHz | HP             | TBD         | C00825  | 06/01/14 |
| RF Preamplifier, 1GHz - 18GHz      | Miteq          | NSP4000-SP2 | 924343  | 03/23/14 |
| RF Preamplifier, 1GHz - 26.5GHz    | HP             | 8449B       | F00351  | 06/27/14 |
| AC Power Supply, 2,500VA 45-500Hz  | Elgar-Ametek   | CW2501M     | F00013  | CNR      |
| RF Preamplifier, 1GHz - 40GHz      | Miteq          | NSP4000-SP2 | C00990  | 08/20/14 |
| Attenuator / Switch driver         | HP             | 11713A      | F00204  | CNR      |
| Low Pass Filter 3GHz               | Micro-Tronics  | LPS17541    | F00219  | 05/23/14 |
| High Pass Filter 5GHz              | Micro-Tronics  | HPS17542    | F00222  | 05/22/14 |
| High Pass Filter 6GHz              | Micro-Tronics  | HPM17543    | F00224  | 05/22/14 |

## 7. SUMMARY TABLE

| FCC Part Section    | Test Description                      | Test Limit                              | Test Condition       | Test Result | Worst Case   |
|---------------------|---------------------------------------|-----------------------------------------|----------------------|-------------|--------------|
| 15.247 (a)          | Occupied Band width (26dB)            | N/A                                     | Conducted            | Pass        | see original |
| 15.407 (a)(1)       | TX Cond. Power 5.15-2.25              | <17dBm or 4+10Log(OBW)                  |                      | Pass        | see original |
| 15.407 (a)(2)       | TX Cond. Power 5.25-5.35 & 5.47-5.725 | <24dBm or 11+10Log(OBW)                 |                      | Pass        | see original |
| 15.407 (a)(5)       | PSD                                   | <4dBm for UNII 1<br><11dBm for UNII 2&3 |                      | Pass        | see original |
| 15.407 (a)(6)       | Peak Excursion Ratio                  | 13dB                                    |                      | Pass        | see original |
| 15.207 (a)          | AC Power Line conducted emissions     | Section 10                              | Radiated             | Pass        | see original |
| 15.407 (b) & 15.209 | Radiated Spurious Emission            | < 54dBuV/m                              |                      | Pass        | 52.94dBuV/m  |
| 15.407 (h)(2)       | Dynamic Frequency Selection           | N/A                                     | Radiated / Conducted | Pass        | N/A          |

## 8. ON TIME, DUTY CYCLE AND MEASUREMENT METHODS

### LIMITS

None; for reporting purposes only.

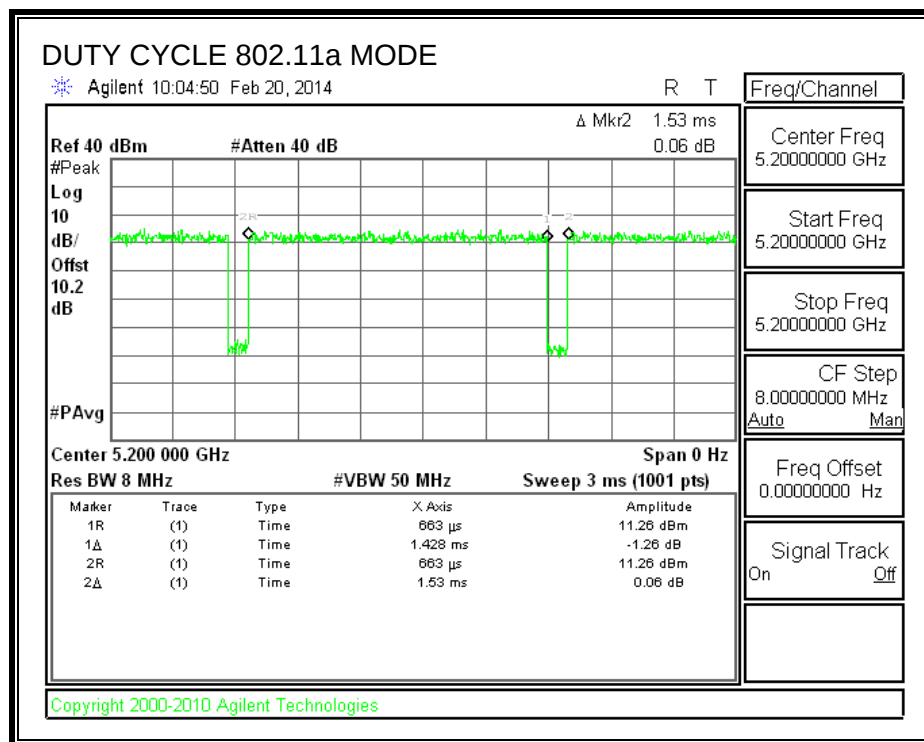
### PROCEDURE

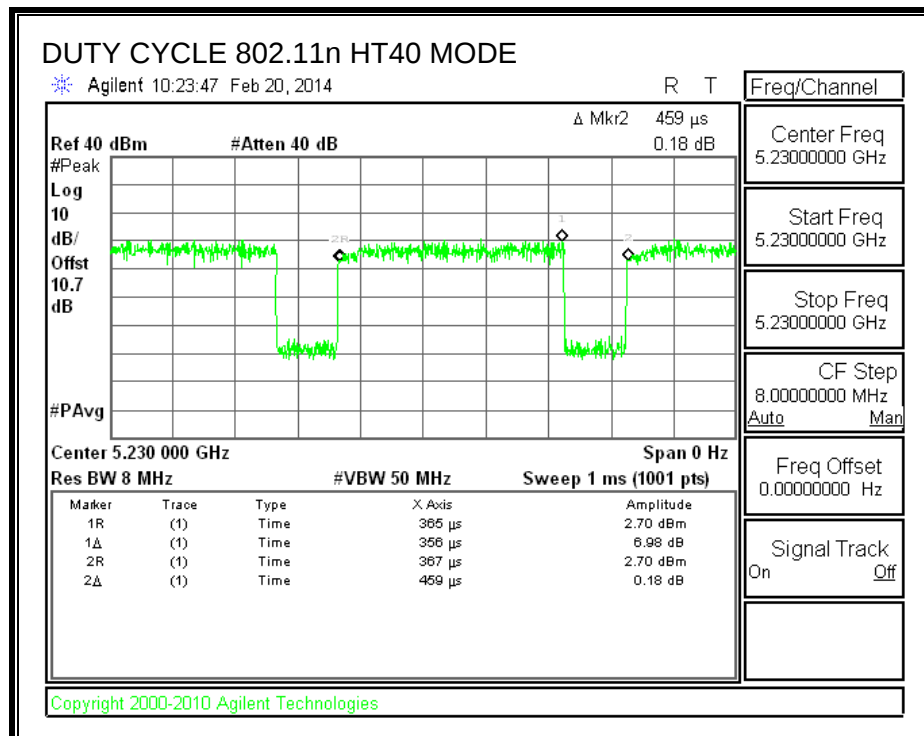
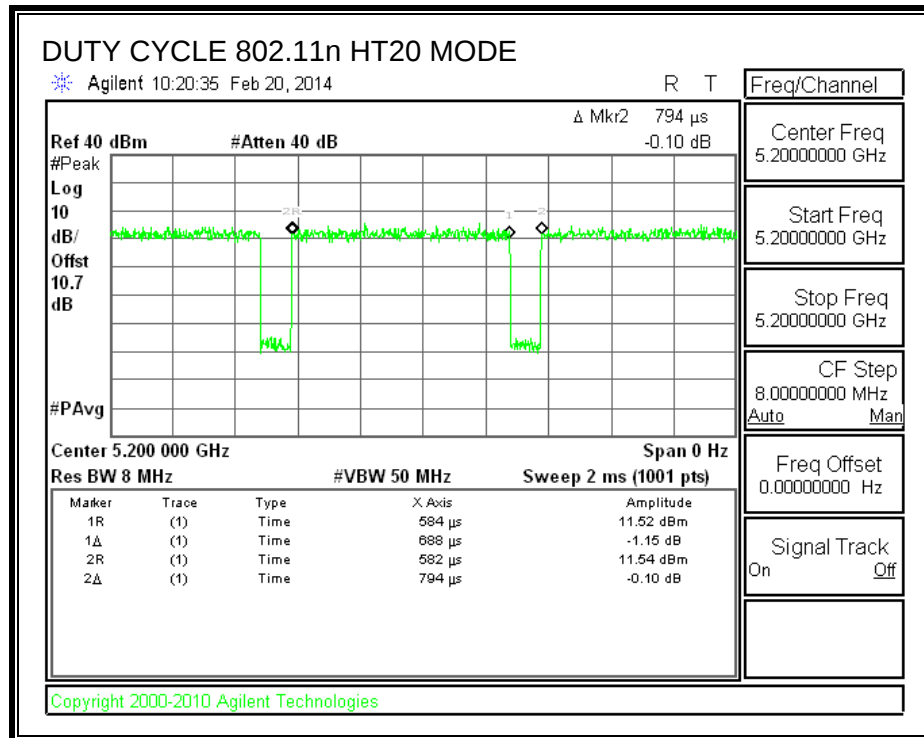
KDB 789033 Zero-Span Spectrum Analyzer Method.

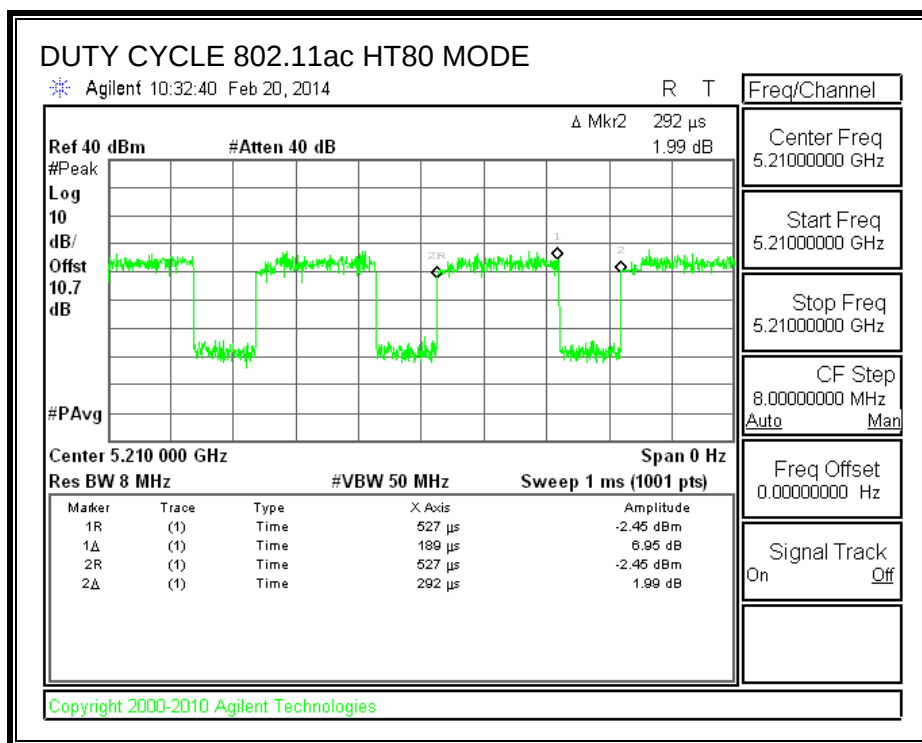
### 8.1. ON TIME AND DUTY CYCLE RESULTS

| Mode          | ON Time<br>B<br>(msec) | Period<br>(msec) | Duty Cycle<br>x<br>(linear) | Duty<br>Cycle<br>(%) | Duty Cycle<br>Correction Factor<br>(dB) | 1/T<br>Minimum VBW<br>(kHz) |
|---------------|------------------------|------------------|-----------------------------|----------------------|-----------------------------------------|-----------------------------|
| 802.11a       | 1.428                  | 1.530            | 0.933                       | 93.3%                | 0.30                                    | 0.700                       |
| 802.11n HT20  | 0.688                  | 0.794            | 0.866                       | 86.6%                | 0.62                                    | 1.453                       |
| 802.11n HT40  | 0.356                  | 0.459            | 0.776                       | 77.6%                | 1.10                                    | 2.809                       |
| 802.11ac HT80 | 0.189                  | 0.292            | 0.647                       | 64.7%                | 1.89                                    | 5.291                       |

### 8.2. DUTY CYCLE PLOTS (From original)







## 9. MEASUREMENT METHOD

The Duty Cycle is less than 98% and consistent therefore KDB 789033 Method SA-2 is used for power and PPSD

The Duty Cycle is less than 98% and consistent, KDB 789033 Method AD with Power RMS Averaging and duty cycle correction is used.

For band edge: KDB 789033 Method AD with Power RMS Averaging and duty cycle correction is used

For Harmonic: Max RMS average method is used.

## 10. TRANSMITTER ABOVE 1 GHz

### LIMITS

FCC §15.205 and §15.209

| Frequency Range (MHz) | Field Strength Limit (uV/m) at 3 m | Field Strength Limit (dBuV/m) at 3 m |
|-----------------------|------------------------------------|--------------------------------------|
| 30 - 88               | 100                                | 40                                   |
| 88 - 216              | 150                                | 43.5                                 |
| 216 - 960             | 200                                | 46                                   |
| Above 960             | 500                                | 54                                   |

### TEST PROCEDURE

The EUT is placed on a non-conducting table 80 cm above the ground plane. The antenna to EUT distance is 3 meters.

For measurements below 1 GHz the resolution bandwidth is set to 100 kHz for peak detection measurements or 120 kHz for quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.

Reference to KDB 789033 UNII part H) 6) d) Method VB:

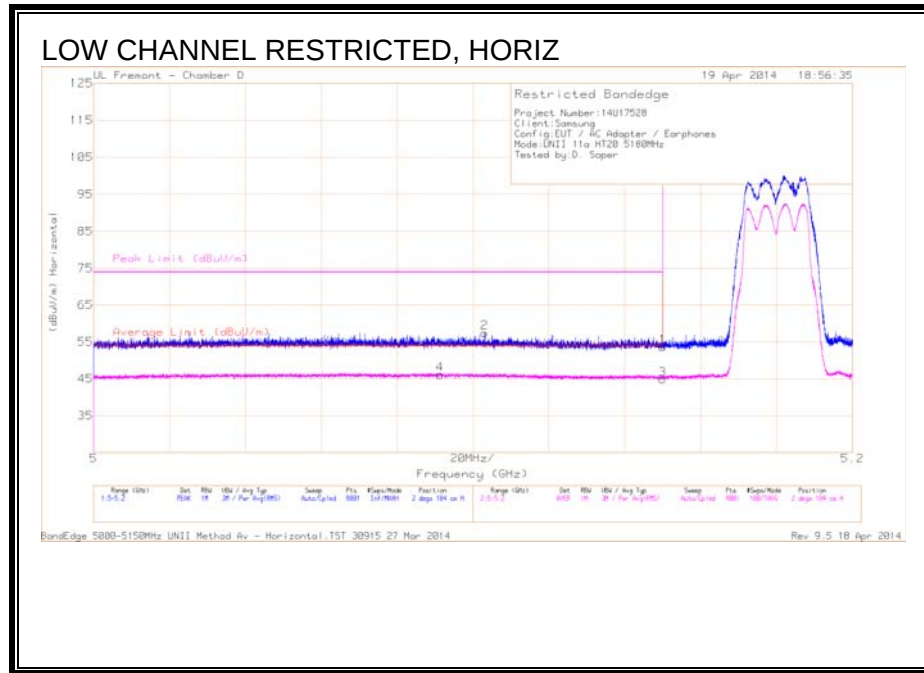
For measurements above 1 GHz the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 3 MHz for peak measurements and add duty cycle factor to the reading offset for average measurements.

The spectrum from 1GHz to 40 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in each applicable band.

The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized in both the vertical and the horizontal positions.

## 10.1. 5.2 GHz

### 10.1.1. TX ABOVE 1 GHz 802.11a MODE IN THE 5.2 GHz BAND RESTRICTED BANDEDGE (LOW CHANNEL)

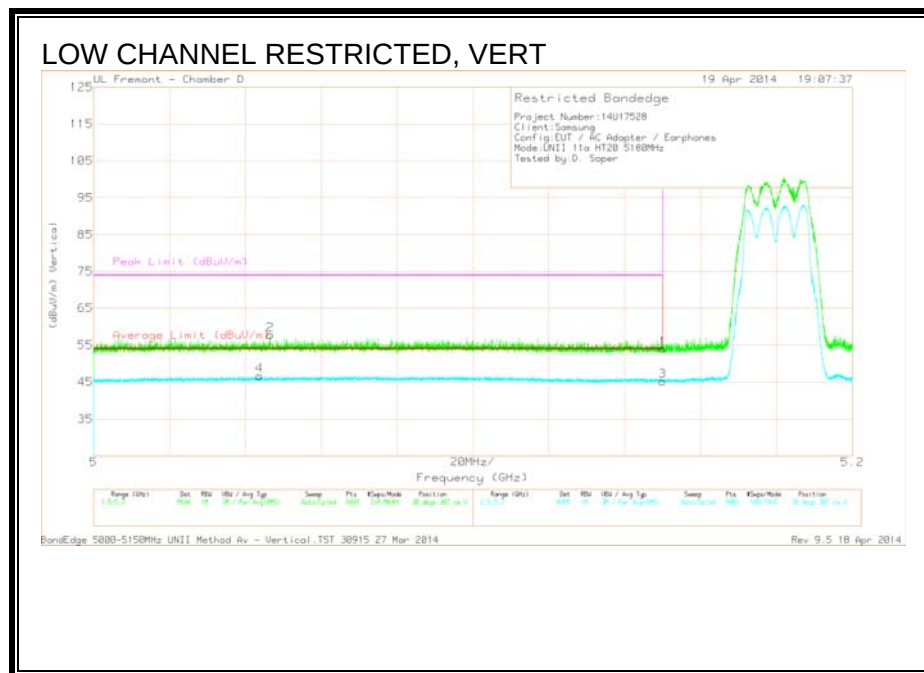


| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T712 (dB/m) | Amp/Cbl/FI tr/Pad (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|------------------------|--------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 5.15          | 38.25                | PK  | 33.7           | -18.3                  | 0            | 53.65                      | -                      | -           | 74                  | -20.35         | 2              | 104         | H        |
| 2      | * 5.103         | 41.87                | PK  | 33.6           | -18                    | 0            | 57.47                      | -                      | -           | 74                  | -16.53         | 2              | 104         | H        |
| 3      | * 5.15          | 29.42                | RMS | 33.7           | -18.3                  | .3           | 45.42                      | 54                     | -8.58       | -                   | -              | 2              | 104         | H        |
| 4      | * 5.091         | 30.42                | RMS | 33.6           | -17.9                  | .3           | 46.72                      | 54                     | -7.28       | -                   | -              | 2              | 104         | H        |

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

RMS - RMS detection



| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T712 (dB/m) | Amp/Cb/IF/ tr/Pad (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|------------------------|--------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 5.15          | 38.56                | PK  | 33.7           | -18.3                  | 0            | 53.96                      | -                      | -           | 74                  | -20.04         | 30             | 307         | V        |
| 2      | * 5.047         | 42.17                | PK  | 33.6           | -18                    | 0            | 57.77                      | -                      | -           | 74                  | -16.23         | 30             | 307         | V        |
| 3      | * 5.15          | 29.25                | RMS | 33.7           | -18.3                  | .3           | 45.25                      | 54                     | -8.75       | -                   | -              | 30             | 307         | V        |
| 4      | * 5.044         | 30.52                | RMS | 33.6           | -18                    | .3           | 46.72                      | 54                     | -7.28       | -                   | -              | 30             | 307         | V        |

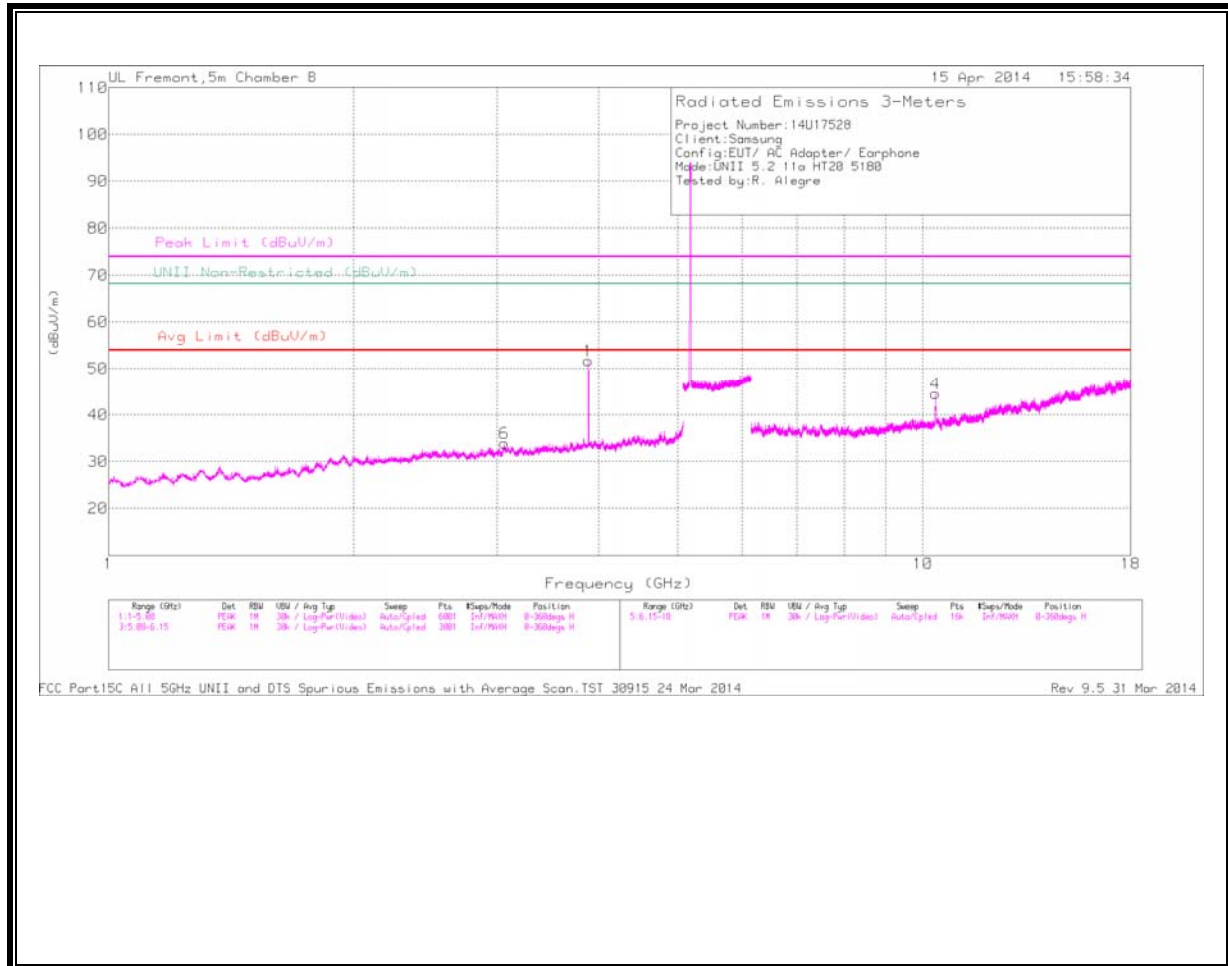
\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

RMS - RMS detection

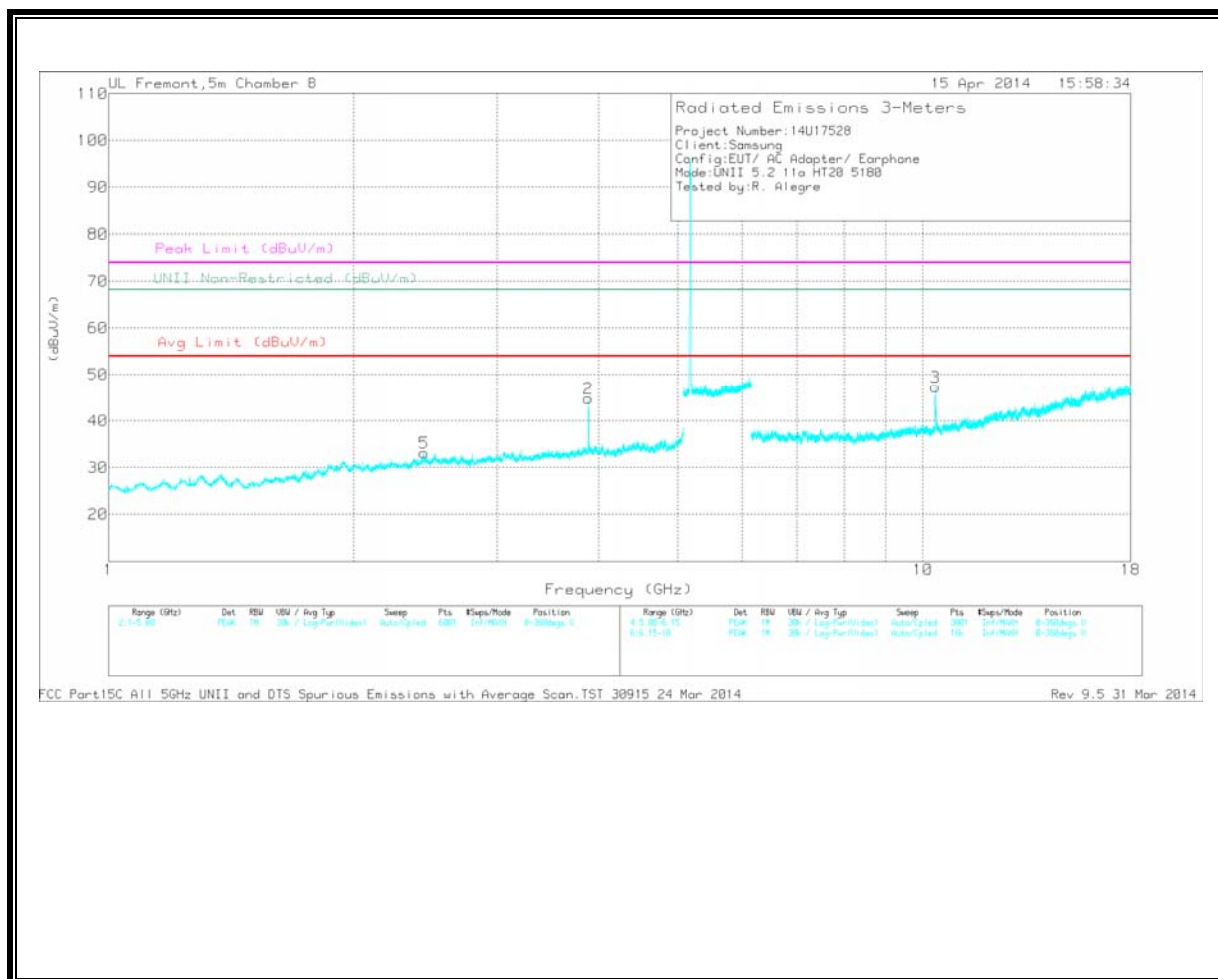
## HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL  
HORIZONTAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

# VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

# LOW CHANNEL DATA Trace Markers

| Marker | Frequenc<br>y<br>(GHz) | Meter<br>Reading<br>(dBuV) | Det | AF T345<br>(dB/m) | Amp/Cbl/<br>Filt/Pad<br>(dB) | DC Corr<br>(dB) | Correcte<br>d<br>Reading<br>(dBuV/m) | Avg<br>Limit<br>(dBuV/m) | Margin<br>(dB) | Peak<br>Limit<br>(dBuV/m) | PK<br>Margin<br>(dB) | UNII<br>Non-<br>Restrict<br>ed<br>(dBuV/m) | PK<br>Margin<br>(dB) | Azimuth<br>(Degs) | Height<br>(cm) | Polarity |
|--------|------------------------|----------------------------|-----|-------------------|------------------------------|-----------------|--------------------------------------|--------------------------|----------------|---------------------------|----------------------|--------------------------------------------|----------------------|-------------------|----------------|----------|
| 1      | * 3.885                | 49.62                      | PK  | 33.8              | -31.7                        | 0               | 51.72                                | -                        | -              | 74                        | -22.28               | -                                          | -                    | 0-360             | 99             | H        |
| 2      | * 3.885                | 42.78                      | PK  | 33.8              | -31.7                        | 0               | 44.88                                | -                        | -              | 74                        | -29.12               | -                                          | -                    | 0-360             | 203            | V        |
| 5      | 2.44                   | 33.03                      | PK  | 32.3              | -32.2                        | 0               | 33.13                                | -                        | -              | -                         | -                    | 68.2                                       | -35.07               | 0-360             | 203            | V        |
| 6      | 3.06                   | 33.46                      | PK  | 32.8              | -32.3                        | 0               | 33.96                                | -                        | -              | -                         | -                    | 68.2                                       | -34.24               | 0-360             | 99             | H        |
| 4      | 10.359                 | 30.6                       | PK  | 37.2              | -23.2                        | 0               | 44.6                                 | -                        | -              | -                         | -                    | 68.2                                       | -23.6                | 0-360             | 99             | H        |
| 3      | 10.363                 | 33.16                      | PK  | 37.3              | -23.1                        | 0               | 47.36                                | -                        | -              | -                         | -                    | 68.2                                       | -20.84               | 0-360             | 202            | V        |

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

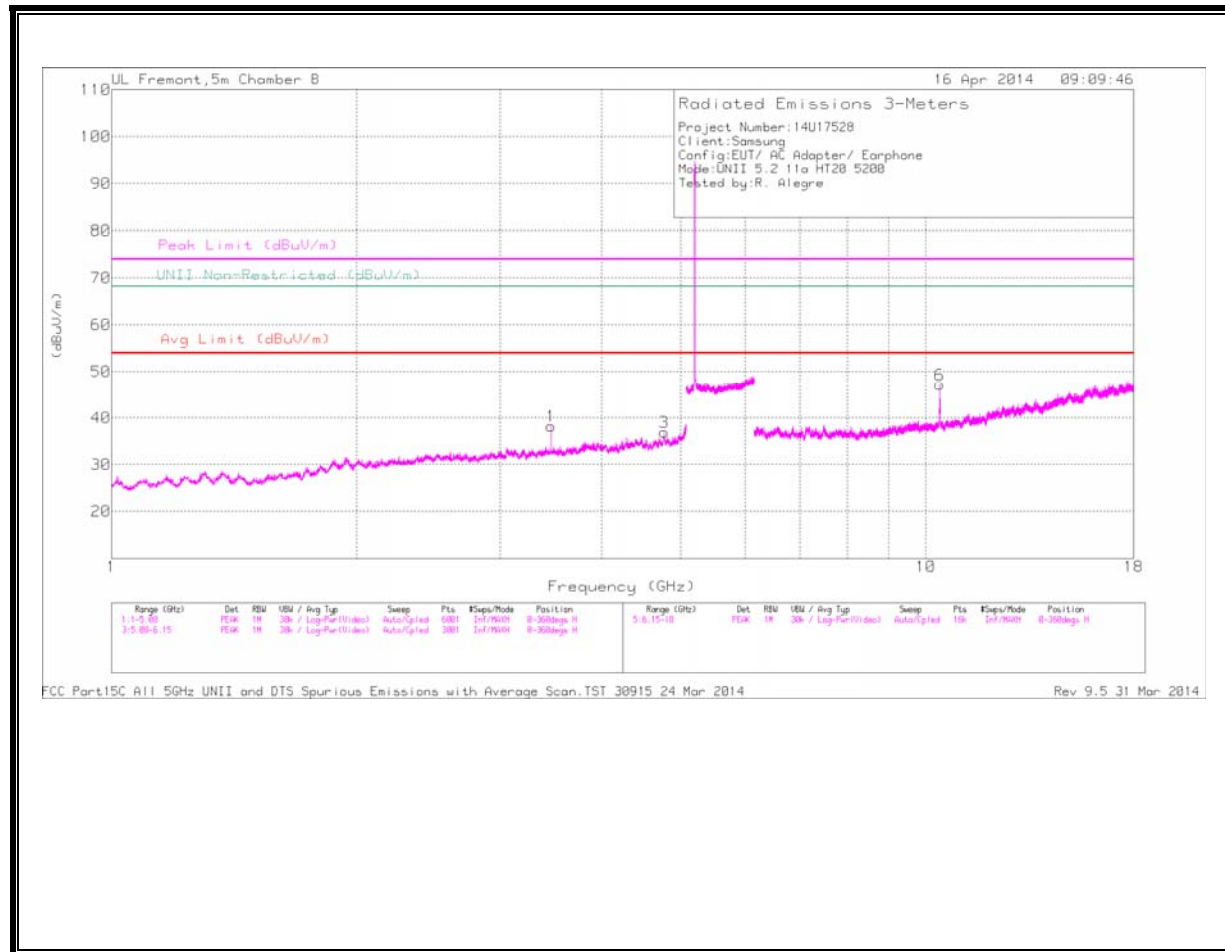
PK - Peak detector

## Radiated Emissions

| Frequenc<br>y<br>(GHz) | Meter<br>Reading<br>(dBuV) | Det | AF T345<br>(dB/m) | Amp/Cbl/<br>Filt/Pad<br>(dB) | DC Corr<br>(dB) | Correcte<br>d<br>Reading<br>(dBuV/m) | Avg Limit<br>(dBuV/m) | Margin<br>(dB) | Peak Limit<br>(dBuV/m) | PK<br>Margin<br>(dB) | UNII Non-<br>Restricted<br>(dBuV/m) | PK<br>Margin<br>(dB) | Azimuth<br>(Degs) | Height<br>(cm) | Polarity |
|------------------------|----------------------------|-----|-------------------|------------------------------|-----------------|--------------------------------------|-----------------------|----------------|------------------------|----------------------|-------------------------------------|----------------------|-------------------|----------------|----------|
| * 3.885                | 51.23                      | PK1 | 33.8              | -31.7                        | 0               | 53.33                                | -                     | -              | 74                     | -20.67               | -                                   | -                    | 260               | 233            | H        |
| * 3.885                | 49                         | AD1 | 33.8              | -31.7                        | .3              | 51.4                                 | 54                    | -2.6           | -                      | -                    | -                                   | -                    | 260               | 233            | H        |
| * 3.885                | 49.86                      | PK1 | 33.8              | -31.7                        | 0               | 51.96                                | -                     | -              | 74                     | -22.04               | -                                   | -                    | 334               | 275            | V        |
| * 3.885                | 47.37                      | AD1 | 33.8              | -31.7                        | .3              | 49.77                                | 54                    | -4.23          | -                      | -                    | -                                   | -                    | 334               | 275            | V        |
| 2.431                  | 41.11                      | PK1 | 32.2              | -32.1                        | 0               | 41.21                                | -                     | -              | -                      | -                    | 68.2                                | -26.99               | 334               | 275            | V        |
| 3.061                  | 41.37                      | PK1 | 32.8              | -32.2                        | 0               | 41.97                                | -                     | -              | -                      | -                    | 68.2                                | -26.23               | 334               | 275            | H        |
| 10.359                 | 44.26                      | PK1 | 37.2              | -23.2                        | 0               | 58.26                                | -                     | -              | -                      | -                    | 68.2                                | -9.94                | 249               | 293            | H        |
| 10.36                  | 33.36                      | PK1 | 37.3              | -23.1                        | 0               | 47.66                                | -                     | -              | 74                     | -26.34               | -                                   | -                    | 249               | 293            | V        |
| 10.36                  | 33.09                      | AD1 | 37.3              | -23.1                        | .3              | 47.39                                | 54                    | -6.61          | -                      | -                    | -                                   | -                    | 249               | 293            | V        |

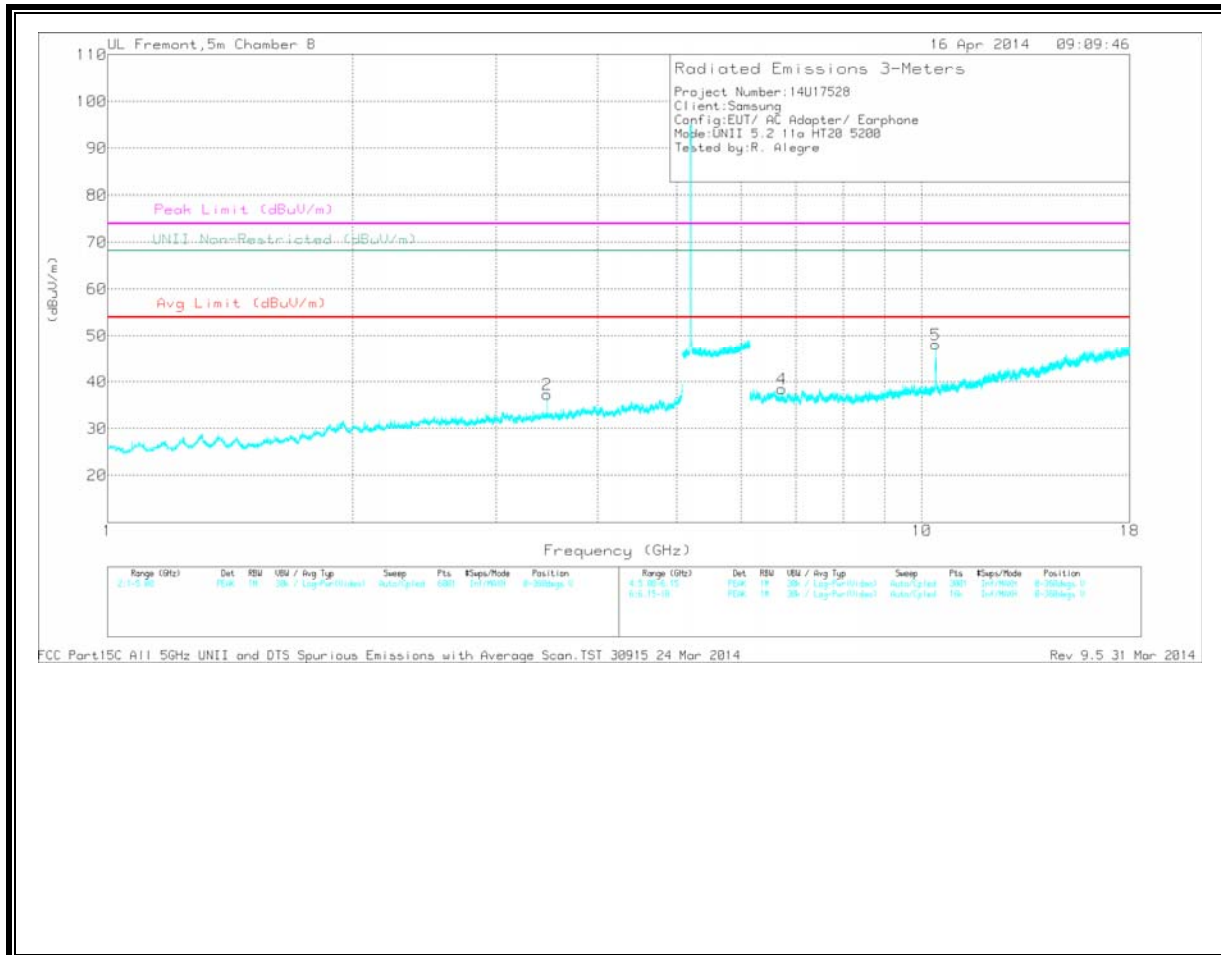
\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

MID CHANNEL  
HORIZONTAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

# MID CHANNEL DATA

| Marker | Frequenc<br>y<br>(GHz) | Meter<br>Reading<br>(dBuV) | Det | AF T345<br>(dB/m) | Ampl/Cbl/<br>Ftr/Pad<br>(dB) | DC Corr<br>(dB) | Correcte<br>d<br>Reading<br>(dBuV/m) | Avg<br>Limit<br>(dBuV/m) | Margin<br>(dB) | Peak<br>Limit<br>(dBuV/m) | PK<br>Margin<br>(dB) | UNII<br>Non-<br>Restrict<br>ed<br>(dBuV/m) | PK<br>Margin<br>(dB) | Azimuth<br>(Degs) | Height<br>(cm) | Polarity |
|--------|------------------------|----------------------------|-----|-------------------|------------------------------|-----------------|--------------------------------------|--------------------------|----------------|---------------------------|----------------------|--------------------------------------------|----------------------|-------------------|----------------|----------|
| 3      | * 4.769                | 32.07                      | PK  | 34.2              | -29.3                        | 0               | 36.97                                | -                        | -              | 74                        | -37.03               | -                                          | -                    | 0-360             | 99             | H        |
| 2      | 3.466                  | 35.99                      | PK  | 32.8              | -31.5                        | 0               | 37.29                                | -                        | -              | -                         | -                    | 68.2                                       | -30.91               | 0-360             | 202            | V        |
| 1      | 3.467                  | 36.95                      | PK  | 32.8              | -31.5                        | 0               | 38.25                                | -                        | -              | -                         | -                    | 68.2                                       | -29.95               | 0-360             | 99             | H        |
| 4      | 6.726                  | 31.22                      | PK  | 35.7              | -28.4                        | 0               | 38.52                                | -                        | -              | -                         | -                    | 68.2                                       | -29.68               | 0-360             | 99             | V        |
| 6      | 10.399                 | 33                         | PK  | 37.3              | -23.1                        | 0               | 47.2                                 | -                        | -              | -                         | -                    | 68.2                                       | -21                  | 0-360             | 201            | H        |
| 5      | 10.402                 | 33.96                      | PK  | 37.3              | -23.2                        | 0               | 48.06                                | -                        | -              | -                         | -                    | 68.2                                       | -20.14               | 0-360             | 202            | V        |

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

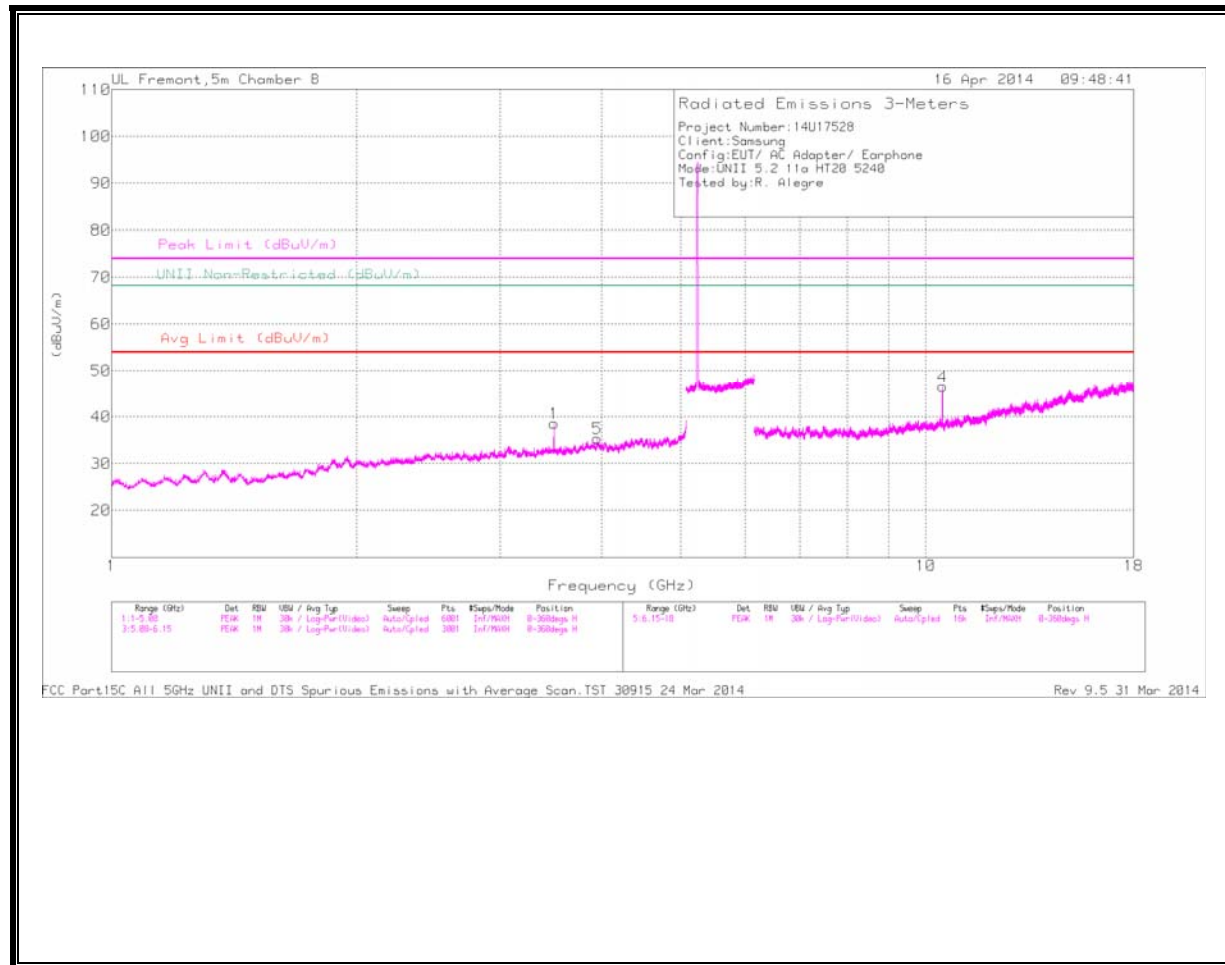
PK - Peak detector

Radiated Emissions

| Frequenc<br>y<br>(GHz) | Meter<br>Reading<br>(dBuV) | Det | AF T345<br>(dB/m) | Ampl/Cbl/<br>Ftr/Pad<br>(dB) | DC Corr<br>(dB) | Correcte<br>d<br>Reading<br>(dBuV/m) | Avg Limit<br>(dBuV/m) | Margin<br>(dB) | Peak Limit<br>(dBuV/m) | PK<br>Margin<br>(dB) | UNII Non-<br>Restricted<br>(dBuV/m) | PK<br>Margin<br>(dB) | Azimuth<br>(Degs) | Height<br>(cm) | Polarity |
|------------------------|----------------------------|-----|-------------------|------------------------------|-----------------|--------------------------------------|-----------------------|----------------|------------------------|----------------------|-------------------------------------|----------------------|-------------------|----------------|----------|
| * 4.767                | 40.02                      | PK1 | 34.2              | -29.4                        | 0               | 44.82                                | -                     | -              | 74                     | -29.18               | -                                   | -                    | 242               | 197            | H        |
| 3.464                  | 40.88                      | PK1 | 32.8              | -31.4                        | 0               | 42.28                                | -                     | -              | -                      | -                    | 68.2                                | -25.92               | 242               | 197            | V        |
| 3.469                  | 41.71                      | PK1 | 32.8              | -31.5                        | 0               | 43.01                                | -                     | -              | -                      | -                    | 68.2                                | -25.19               | 242               | 197            | H        |
| 6.726                  | 39.23                      | PK1 | 35.7              | -28.4                        | 0               | 46.53                                | -                     | -              | -                      | -                    | 68.2                                | -21.67               | 242               | 197            | V        |
| 10.399                 | 43.65                      | PK1 | 37.3              | -23.1                        | 0               | 57.85                                | -                     | -              | -                      | -                    | 68.2                                | -10.35               | 242               | 197            | H        |
| 10.399                 | 31.68                      | AD1 | 37.3              | -23.1                        | .3              | 46.18                                | 54                    | -7.82          | -                      | -                    | -                                   | -                    | 242               | 197            | H        |
| 10.4                   | 29.87                      | AD1 | 37.3              | -23.1                        | .3              | 44.37                                | 54                    | -9.63          | -                      | -                    | -                                   | -                    | 242               | 197            | V        |
| 10.404                 | 40.76                      | PK1 | 37.3              | -23.2                        | 0               | 54.86                                | -                     | -              | -                      | -                    | 68.2                                | -13.34               | 242               | 197            | V        |

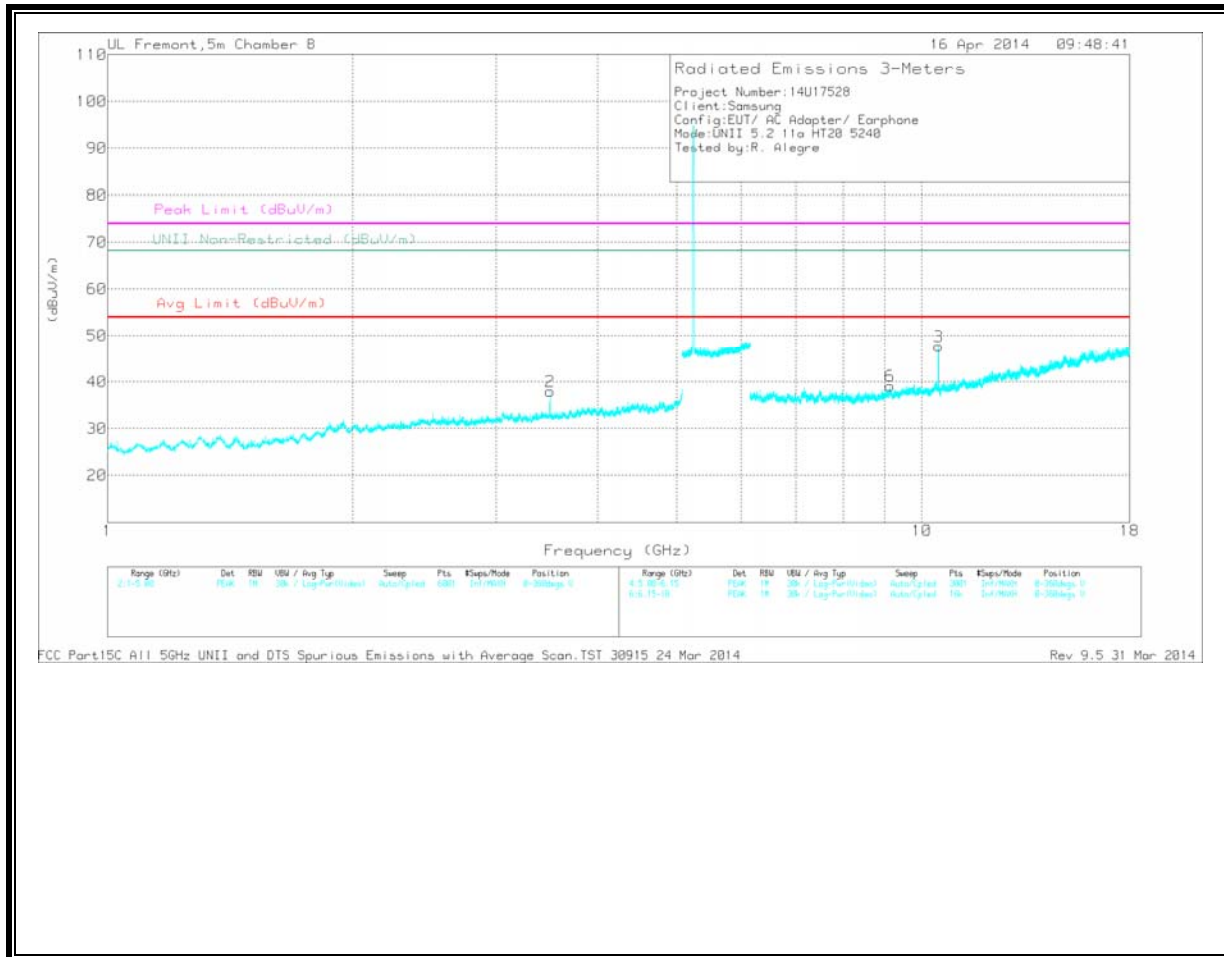
\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

HIGH CHANNEL  
HORIZONTAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

# HIGH CHANNEL DATA

| Marker | Frequenc<br>y<br>(GHz) | Meter<br>Reading<br>(dBuV) | Det | AF T345<br>(dB/m) | Ampl/Cbl/<br>Ftr/Pad<br>(dB) | DC Corr<br>(dB) | Correcte<br>d<br>Reading<br>(dBuV/m) | Avg Limit<br>(dBuV/m) | Margin<br>(dB) | Peak<br>Limit<br>(dBuV/m) | PK<br>Margin<br>(dB) | UNII<br>Non-<br>Restrict<br>ed<br>(dBuV/m) | PK<br>Margin<br>(dB) | Azimuth<br>(Degs) | Height<br>(cm) | Polarity |
|--------|------------------------|----------------------------|-----|-------------------|------------------------------|-----------------|--------------------------------------|-----------------------|----------------|---------------------------|----------------------|--------------------------------------------|----------------------|-------------------|----------------|----------|
| 5      | * 3.951                | 31.76                      | PK  | 33.7              | -30.1                        | 0               | 35.36                                | -                     | -              | 74                        | -38.64               | -                                          | -                    | 0-360             | 201            | H        |
| 6      | * 9.134                | 27.9                       | PK  | 36.3              | -25.1                        | 0               | 39.1                                 | -                     | -              | 74                        | -34.9                | -                                          | -                    | 0-360             | 202            | V        |
| 1      | 3.493                  | 37.7                       | PK  | 32.8              | -31.9                        | 0               | 38.6                                 | -                     | -              | -                         | -                    | 68.2                                       | -29.6                | 0-360             | 99             | H        |
| 2      | 3.494                  | 37.05                      | PK  | 32.8              | -31.9                        | 0               | 37.95                                | -                     | -              | -                         | -                    | 68.2                                       | -30.25               | 0-360             | 202            | V        |
| 4      | 10.48                  | 32.99                      | PK  | 37.4              | -23.8                        | 0               | 46.59                                | -                     | -              | -                         | -                    | 68.2                                       | -21.61               | 0-360             | 201            | H        |
| 3      | 10.482                 | 34.17                      | PK  | 37.4              | -23.8                        | 0               | 47.77                                | -                     | -              | -                         | -                    | 68.2                                       | -20.43               | 0-360             | 202            | V        |

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

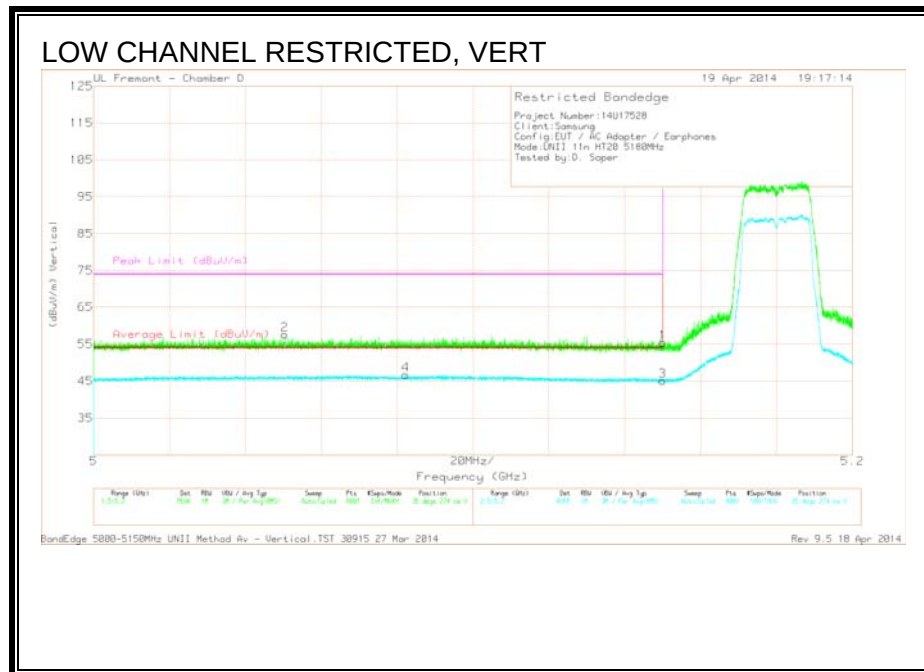
PK - Peak detector

Radiated Emissions

| Frequenc<br>y<br>(GHz) | Meter<br>Reading<br>(dBuV) | Det | AF T345<br>(dB/m) | Ampl/Cbl/<br>Ftr/Pad<br>(dB) | DC Corr<br>(dB) | Correcte<br>d<br>Reading<br>(dBuV/m) | Avg Limit<br>(dBuV/m) | Margin<br>(dB) | Peak Limit<br>(dBuV/m) | PK<br>Margin<br>(dB) | UNII Non-<br>Restricted<br>(dBuV/m) | PK<br>Margin<br>(dB) | Azimuth<br>(Degs) | Height<br>(cm) | Polarity |
|------------------------|----------------------------|-----|-------------------|------------------------------|-----------------|--------------------------------------|-----------------------|----------------|------------------------|----------------------|-------------------------------------|----------------------|-------------------|----------------|----------|
| * 3.951                | 39.73                      | PK1 | 33.7              | -30.2                        | 0               | 43.23                                | 54                    | -10.77         | 74                     | -30.77               | -                                   | -                    | 129               | 301            | H        |
| * 9.134                | 35.47                      | PK1 | 36.3              | -25.1                        | 0               | 46.67                                | 54                    | -7.33          | 74                     | -27.33               | -                                   | -                    | 110               | 230            | V        |
| 3.493                  | 35.37                      | AD1 | 32.8              | -31.9                        | .3              | 36.57                                | 54                    | 17.43          | 74                     | -34.43               | -                                   | -                    | 129               | 301            | H        |
| 3.494                  | 42.51                      | PK1 | 32.8              | -31.9                        | 0               | 43.41                                | -                     | -              | -                      | -                    | 68.2                                | -24.79               | 129               | 301            | H        |
| 3.494                  | 43.79                      | PK1 | 32.8              | -31.9                        | 0               | 44.69                                | -                     | -              | -                      | -                    | 68.2                                | -23.51               | 110               | 230            | V        |
| 10.482                 | 39.41                      | PK1 | 37.4              | -23.8                        | 0               | 53.01                                | -                     | -              | -                      | -                    | 68.2                                | -15.19               | 110               | 230            | H        |
| 10.482                 | 31.7                       | AD1 | 37.4              | -23.8                        | .3              | 45.6                                 | 54                    | -5.4           | 74                     | -28.4                | -                                   | -                    | 110               | 230            | V        |
| 10.483                 | 41.89                      | PK1 | 37.4              | -23.8                        | 0               | 55.49                                | -                     | -              | -                      | -                    | 68.2                                | -12.71               | 110               | 230            | V        |

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band





| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T712 (dB/m) | Amp/Cbl/Ftr/Pad (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|----------------------|--------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 5.15          | 40.01                | PK  | 33.7           | -18.3                | 0            | 55.41                      | -                      | -           | 74                  | -18.59         | 35             | 274         | V        |
| 2      | * 5.05          | 42.04                | PK  | 33.6           | -18.1                | 0            | 57.54                      | -                      | -           | 74                  | -16.46         | 35             | 274         | V        |
| 3      | * 5.15          | 29.07                | RMS | 33.7           | -18.3                | .6           | 45.07                      | 54                     | -8.93       | -                   | -              | 35             | 274         | V        |
| 4      | * 5.082         | 30.5                 | RMS | 33.6           | -18                  | .6           | 46.7                       | 54                     | -7.3        | -                   | -              | 35             | 274         | V        |

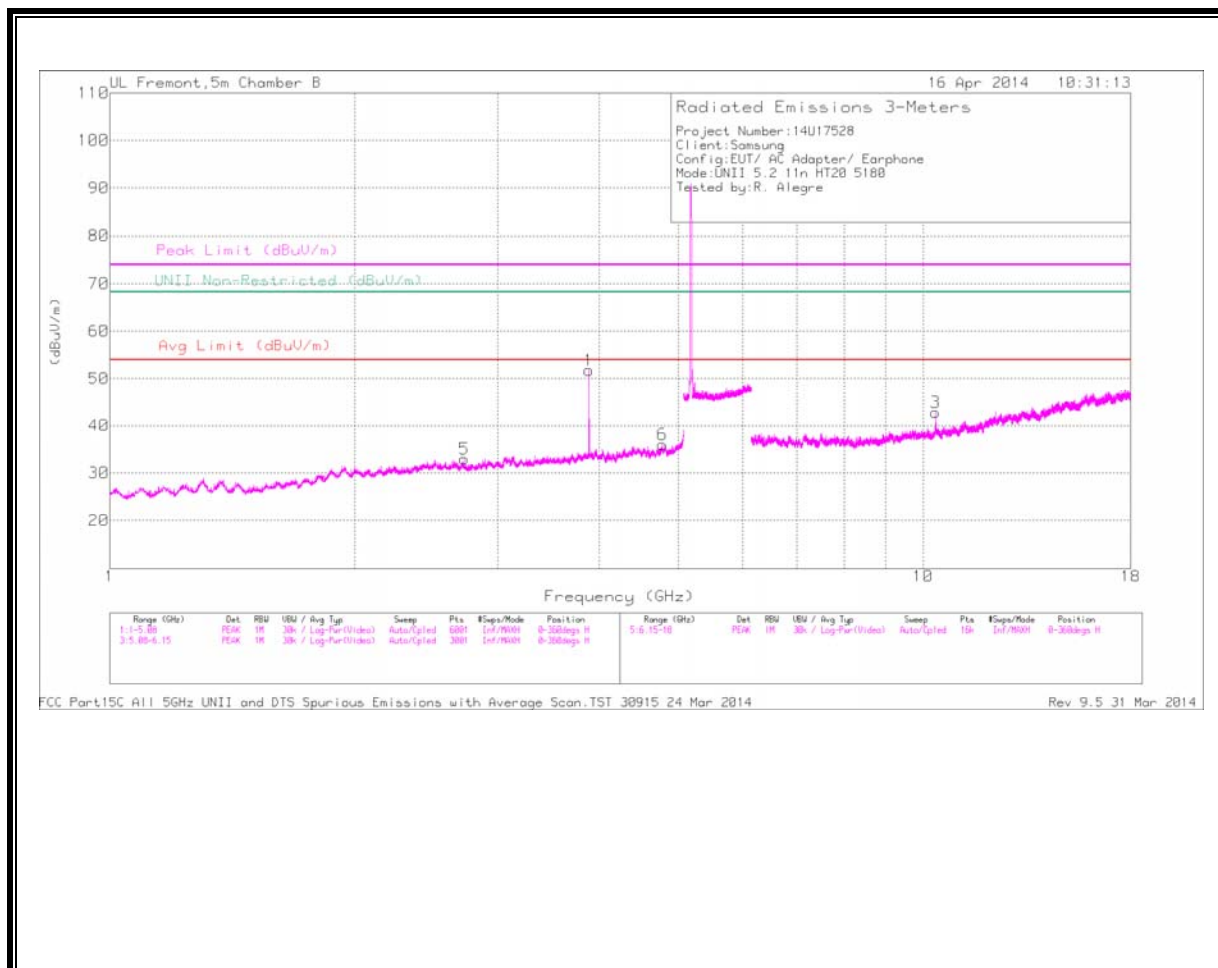
\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

RMS - RMS detection

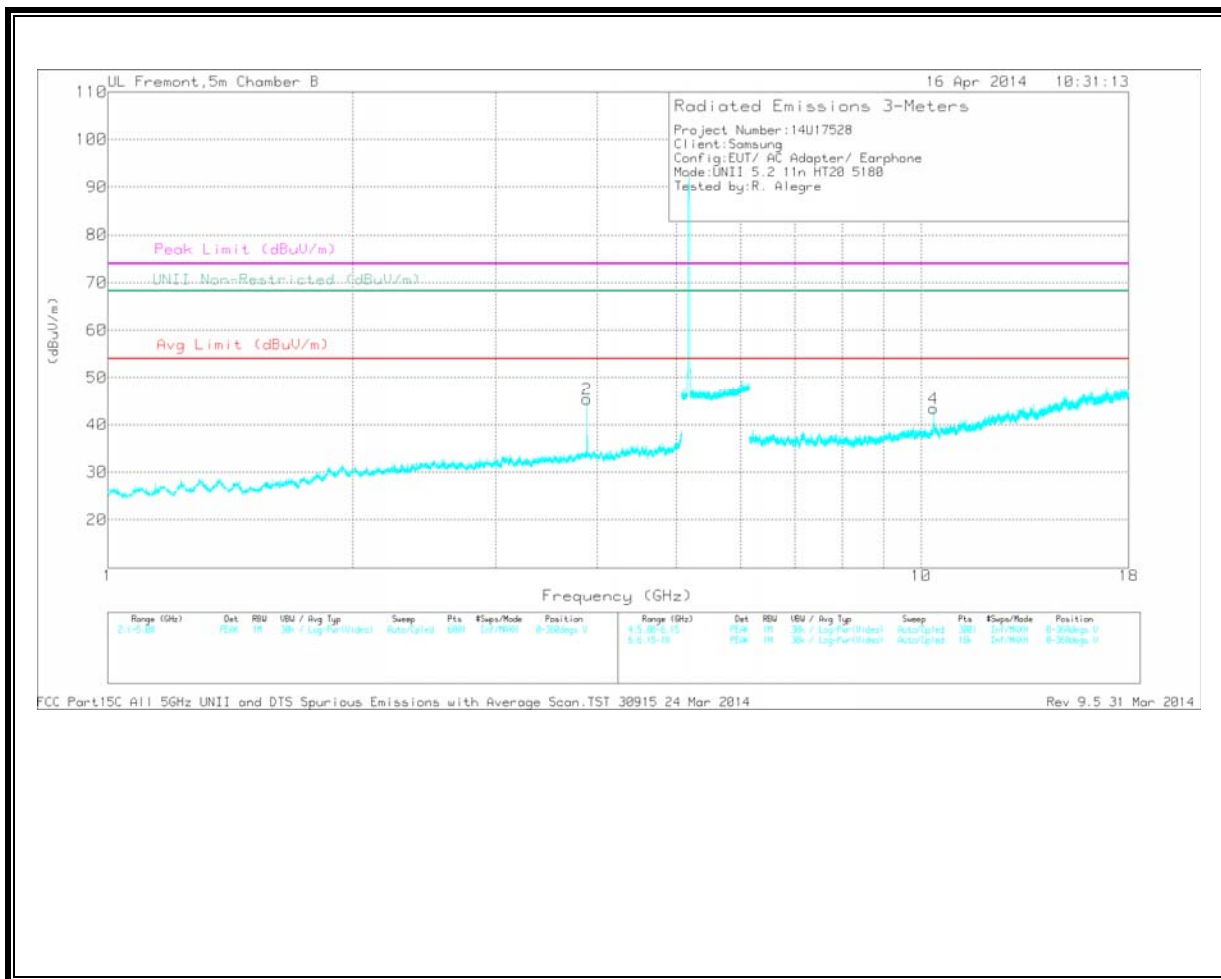
## HARMONICS AND SPURIOUS EMISSIONS

### LOW CHANNEL HORIZONTAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

## LOW CHANNEL DATA

| Marker | Frequenc<br>y<br>(GHz) | Meter<br>Reading<br>(dBuV) | Det | AF T345<br>(dB/m) | Ampl/Cbl/<br>Ftr/Pad<br>(dB) | DC Corr<br>(dB) | Correcte<br>d<br>Reading<br>(dBuV/m) | Avg<br>Limit<br>(dBuV/m) | Margin<br>(dB) | Peak<br>Limit<br>(dBuV/m) | PK<br>Margin<br>(dB) | UNII<br>Non-<br>Restrict<br>ed<br>(dBuV/m) | PK<br>Margin<br>(dB) | Azimuth<br>(Degs) | Height<br>(cm) | Polarity |
|--------|------------------------|----------------------------|-----|-------------------|------------------------------|-----------------|--------------------------------------|--------------------------|----------------|---------------------------|----------------------|--------------------------------------------|----------------------|-------------------|----------------|----------|
| 1      | * 3.885                | 49.7                       | PK  | 33.8              | -31.7                        | 0               | 51.8                                 | -                        | -              | 74                        | -22.2                | -                                          | -                    | 0-360             | 99             | H        |
| 5      | * 2.727                | 32.67                      | PK  | 32.2              | -31.9                        | 0               | 32.97                                | -                        | -              | 74                        | -41.03               | -                                          | -                    | 0-360             | 202            | H        |
| 6      | * 4.781                | 30.84                      | PK  | 34.2              | -29                          | 0               | 36.04                                | -                        | -              | 74                        | -37.96               | -                                          | -                    | 0-360             | 99             | H        |
| 2      | * 3.885                | 43.3                       | PK  | 33.8              | -31.7                        | 0               | 45.4                                 | -                        | -              | 74                        | -28.6                | -                                          | -                    | 0-360             | 202            | V        |
| 3      | 10.355                 | 28.81                      | PK  | 37.2              | -23.2                        | 0               | 42.81                                | -                        | -              | -                         | -                    | 68.2                                       | -25.39               | 0-360             | 202            | H        |
| 4      | 10.359                 | 29.38                      | PK  | 37.2              | -23.2                        | 0               | 43.38                                | -                        | -              | -                         | -                    | 68.2                                       | -24.82               | 0-360             | 202            | V        |

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

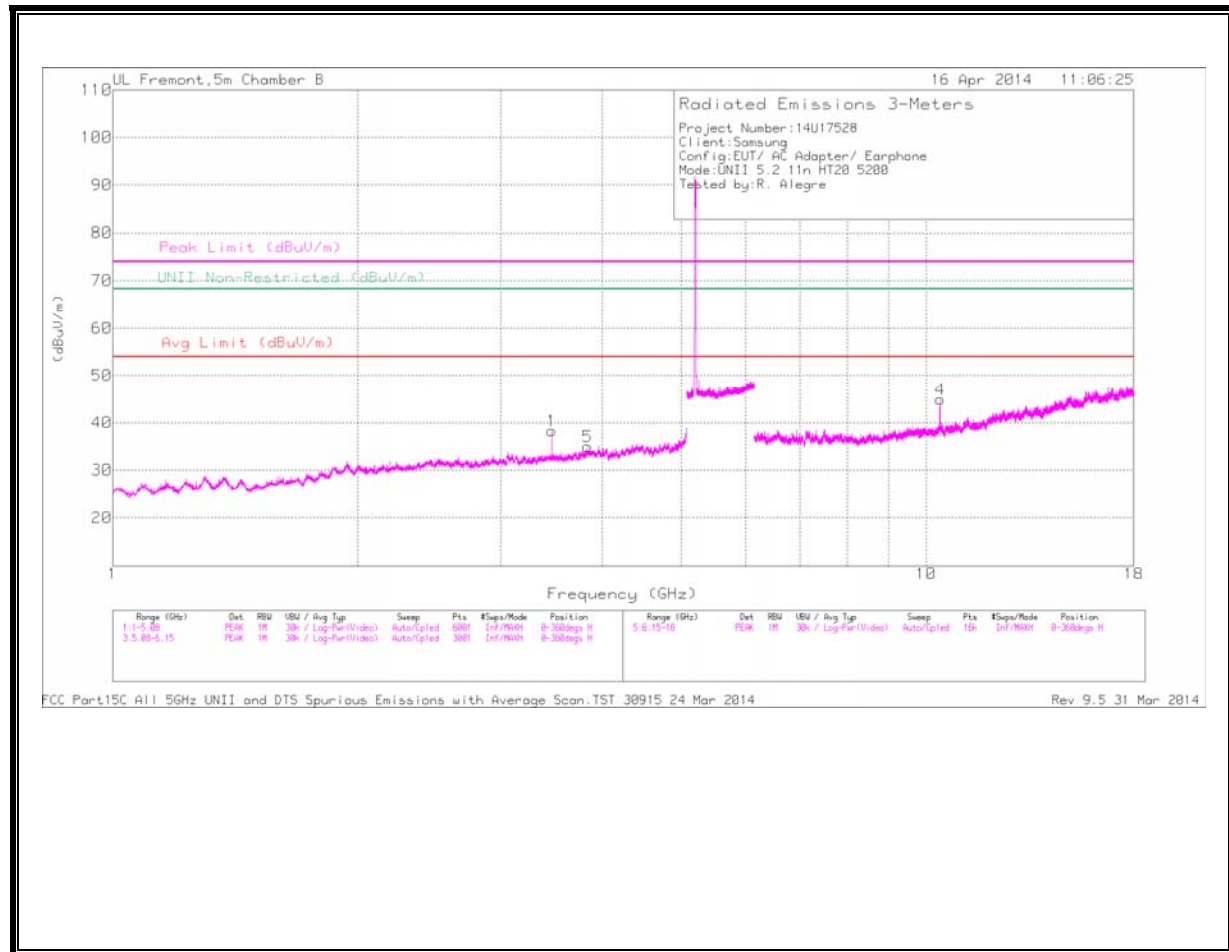
PK - Peak detector

Radiated Emissions

| Frequenc<br>y<br>(GHz) | Meter<br>Reading<br>(dBuV) | Det | AF T345<br>(dB/m) | Ampl/Cbl/<br>Ftr/Pad<br>(dB) | DC Corr<br>(dB) | Correcte<br>d<br>Reading<br>(dBuV/m) | Avg Limit<br>(dBuV/m) | Margin<br>(dB) | Peak Limit<br>(dBuV/m) | PK<br>Margin<br>(dB) | UNII Non-<br>Restricted<br>(dBuV/m) | PK<br>Margin<br>(dB) | Azimuth<br>(Degs) | Height<br>(cm) | Polarity |
|------------------------|----------------------------|-----|-------------------|------------------------------|-----------------|--------------------------------------|-----------------------|----------------|------------------------|----------------------|-------------------------------------|----------------------|-------------------|----------------|----------|
| * 3.885                | 52.64                      | PK1 | 33.8              | -31.7                        | 0               | 54.74                                | -                     | -              | 74                     | -19.26               | -                                   | -                    | 210               | 269            | H        |
| * 3.885                | 50.54                      | AD1 | 33.8              | -31.7                        | .6              | 52.94                                | 54                    | -1.06          | 74                     | -21.06               | -                                   | -                    | 210               | 269            | H        |
| * 2.727                | 40.76                      | PK1 | 32.2              | -31.9                        | 0               | 41.06                                | -                     | -              | 74                     | -32.94               | -                                   | -                    | 210               | 269            | H        |
| * 4.779                | 39.37                      | PK1 | 34.2              | -29                          | 0               | 44.57                                | -                     | -              | 74                     | -29.43               | -                                   | -                    | 210               | 269            | H        |
| * 3.885                | 45.5                       | PK1 | 33.8              | -31.7                        | 0               | 47.6                                 | -                     | -              | 74                     | -26.4                | -                                   | -                    | 210               | 269            | V        |
| 10.359                 | 38.11                      | PK1 | 37.2              | -23.2                        | 0               | 52.11                                | -                     | -              | -                      | -                    | 68.2                                | -16.09               | 310               | 270            | V        |
| 10.355                 | 35.45                      | PK1 | 37.2              | -23.2                        | 0               | 49.45                                | -                     | -              | -                      | -                    | 68.2                                | -18.75               | 210               | 269            | H        |
| 10.359                 | 26.7                       | AD1 | 37.2              | -23.2                        | .6              | 41                                   | 54                    | -13            | 74                     | -33                  | -                                   | -                    | 310               | 270            | V        |

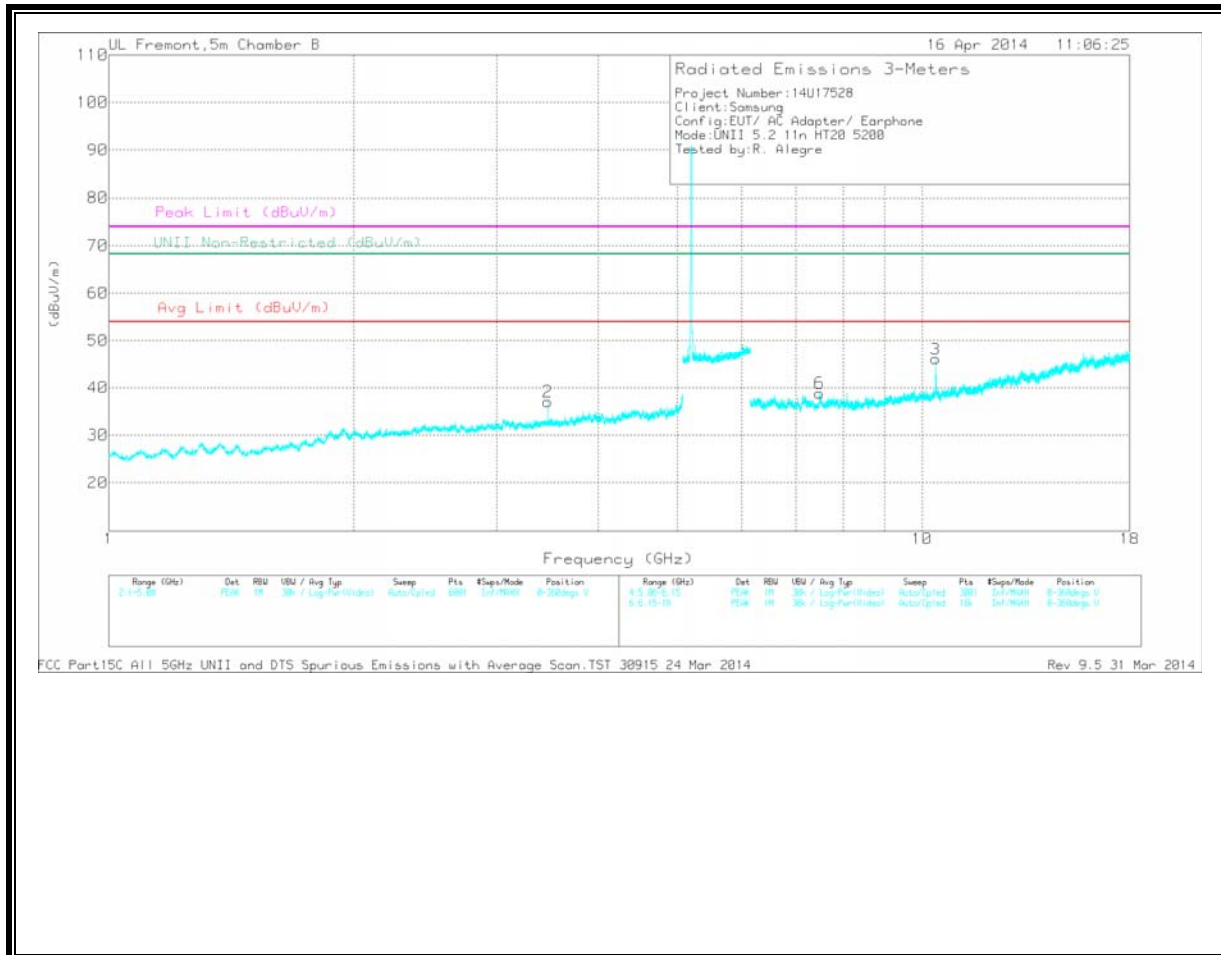
\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

MID CHANNEL  
HORIZONTAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

# MID CHANNEL DATA

| Marker | Frequenc<br>y<br>(GHz) | Meter<br>Reading<br>(dBuV) | Det | AF T345<br>(dB/m) | Ampl/Cbl/<br>Ftr/Pad<br>(dB) | DC Corr<br>(dB) | Correcte<br>d<br>Reading<br>(dBuV/m) | Avg Limit<br>(dBuV/m) | Margin<br>(dB) | Peak<br>Limit<br>(dBuV/m) | PK<br>Margin<br>(dB) | UNII<br>Non-<br>Restrict<br>ed<br>(dBuV/m) | PK<br>Margin<br>(dB) | Azimuth<br>(Degs) | Height<br>(cm) | Polarity |
|--------|------------------------|----------------------------|-----|-------------------|------------------------------|-----------------|--------------------------------------|-----------------------|----------------|---------------------------|----------------------|--------------------------------------------|----------------------|-------------------|----------------|----------|
| 5      | * 3.835                | 32.28                      | PK  | 33.7              | -31                          | 0               | 34.98                                | -                     | -              | 74                        | -39.02               | -                                          | -                    | 0-360             | 99             | H        |
| 6      | * 7.485                | 29.16                      | PK  | 35.6              | -25.9                        | 0               | 38.86                                | -                     | -              | 74                        | -35.14               | -                                          | -                    | 0-360             | 202            | V        |
| 1      | 3.466                  | 36.97                      | PK  | 32.8              | -31.5                        | 0               | 38.27                                | -                     | -              | -                         | -                    | 68.2                                       | -29.93               | 0-360             | 99             | H        |
| 2      | 3.466                  | 35.74                      | PK  | 32.8              | -31.5                        | 0               | 37.04                                | -                     | -              | -                         | -                    | 68.2                                       | -31.16               | 0-360             | 202            | V        |
| 3      | 10.399                 | 31.86                      | PK  | 37.3              | -23.1                        | 0               | 46.06                                | -                     | -              | -                         | -                    | 68.2                                       | -22.14               | 0-360             | 202            | V        |
| 4      | 10.406                 | 30.83                      | PK  | 37.3              | -23.2                        | 0               | 44.93                                | -                     | -              | -                         | -                    | 68.2                                       | -23.27               | 0-360             | 201            | H        |

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

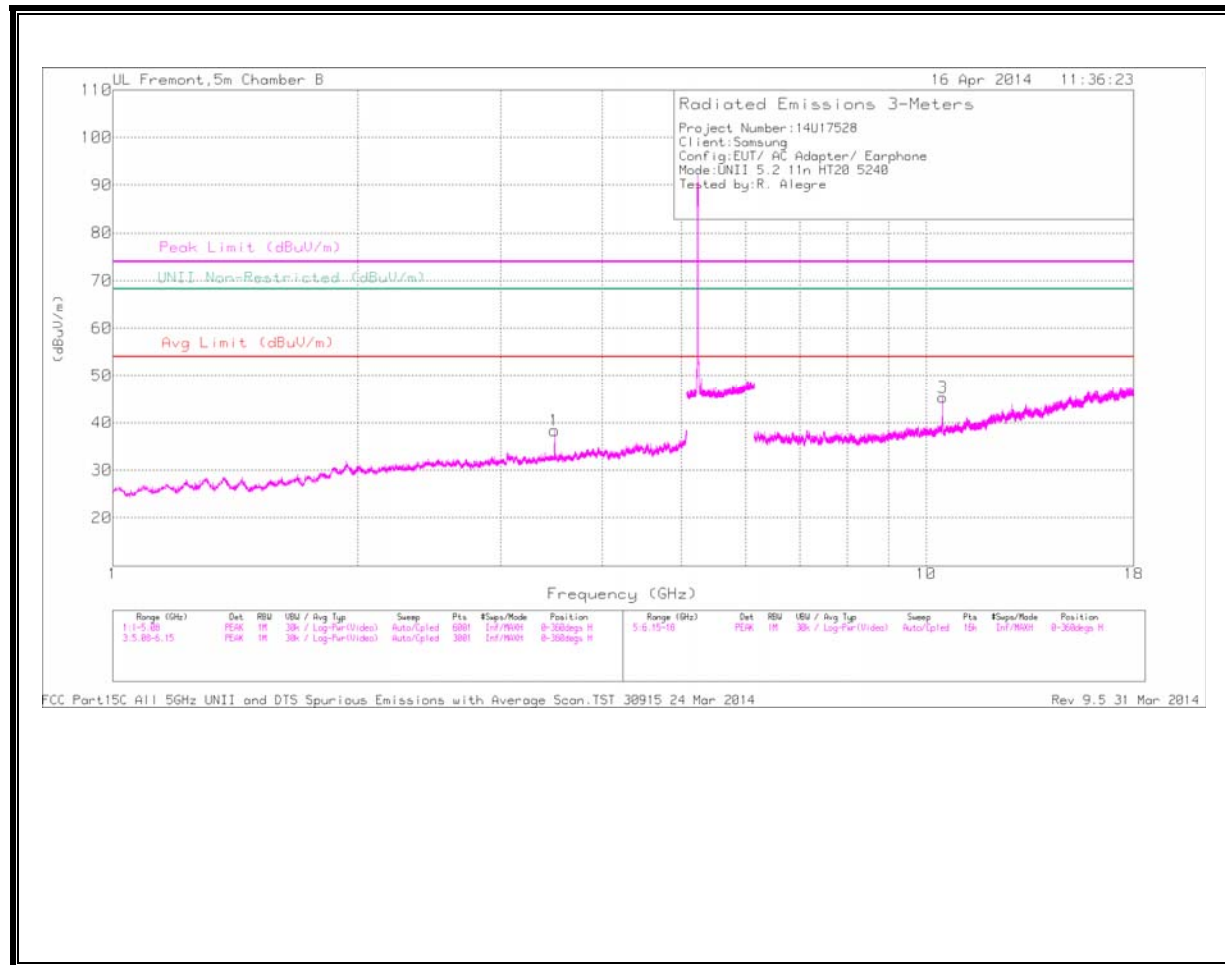
PK - Peak detector

Radiated Emissions

| Frequenc<br>y<br>(GHz) | Meter<br>Reading<br>(dBuV) | Det | AF T345<br>(dB/m) | Ampl/Cbl/<br>Ftr/Pad<br>(dB) | DC Corr<br>(dB) | Correcte<br>d<br>Reading<br>(dBuV/m) | Avg Limit<br>(dBuV/m) | Margin<br>(dB) | Peak Limit<br>(dBuV/m) | PK<br>Margin<br>(dB) | UNII Non-<br>Restricted<br>(dBuV/m) | PK<br>Margin<br>(dB) | Azimuth<br>(Degs) | Height<br>(cm) | Polarity |
|------------------------|----------------------------|-----|-------------------|------------------------------|-----------------|--------------------------------------|-----------------------|----------------|------------------------|----------------------|-------------------------------------|----------------------|-------------------|----------------|----------|
| * 3.835                | 40.01                      | PK1 | 33.7              | -31.1                        | 0               | 42.61                                | -                     | -              | 74                     | -31.39               | -                                   | -                    | 35                | 210            | H        |
| * 7.485                | 36.69                      | PK1 | 35.6              | -25.9                        | 0               | 46.39                                | -                     | -              | 74                     | -27.61               | -                                   | -                    | 35                | 210            | V        |
| 3.466                  | 40.67                      | PK1 | 32.8              | -31.5                        | 0               | 41.97                                | -                     | -              | -                      | -                    | 68.2                                | -26.23               | 35                | 210            | H        |
| 3.466                  | 30.75                      | AD1 | 32.8              | -31.5                        | .6              | 32.65                                | 54                    | 21.35          | -                      | -                    | -                                   | -                    | 35                | 210            | H        |
| 3.467                  | 40.87                      | PK1 | 32.8              | -31.5                        | 0               | 42.17                                | -                     | -              | -                      | -                    | 68.2                                | -26.03               | 35                | 210            | V        |
| 10.397                 | 36.82                      | PK1 | 37.3              | -23.1                        | 0               | 51.02                                | -                     | -              | -                      | -                    | 68.2                                | -17.18               | 35                | 210            | V        |
| 10.397                 | 26.21                      | AD1 | 37.3              | -23.1                        | .6              | 41.01                                | 54                    | 12.99          | -                      | -                    | -                                   | -                    | 35                | 210            | V        |
| 10.407                 | 35.6                       | PK1 | 37.3              | -23.2                        | 0               | 49.7                                 | -                     | -              | -                      | -                    | 68.2                                | -18.5                | 35                | 210            | H        |

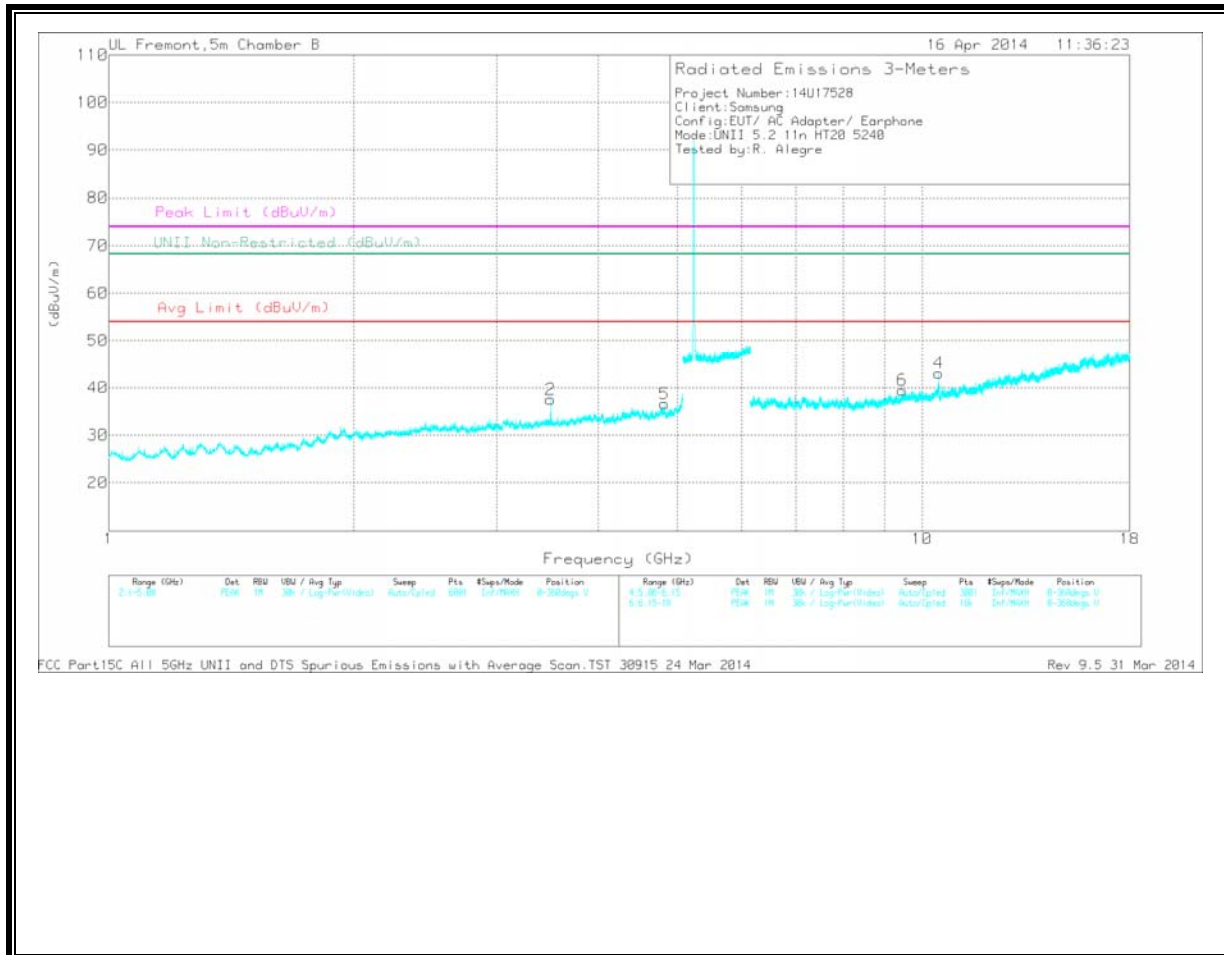
\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

HIGH CHANNEL  
HORIZONTAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

## HIGH CHANNEL DATA

| Marker | Frequenc<br>y<br>(GHz) | Meter<br>Reading<br>(dBuV) | Det | AF T345<br>(dB/m) | Ampl/Cbl/<br>Ftr/Pad<br>(dB) | DC Corr<br>(dB) | Correcte<br>d<br>Reading<br>(dBuV/m) | Avg<br>Limit<br>(dBuV/m) | Margin<br>(dB) | Peak<br>Limit<br>(dBuV/m) | PK<br>Margin<br>(dB) | UNII<br>Non-<br>Restrict<br>ed<br>(dBuV/m) | PK<br>Margin<br>(dB) | Azimuth<br>(Degs) | Height<br>(cm) | Polarity |
|--------|------------------------|----------------------------|-----|-------------------|------------------------------|-----------------|--------------------------------------|--------------------------|----------------|---------------------------|----------------------|--------------------------------------------|----------------------|-------------------|----------------|----------|
| 5      | * 4.824                | 32.22                      | PK  | 34.2              | -29.8                        | 0               | 36.62                                | -                        | -              | 74                        | -37.38               | -                                          | -                    | 0-360             | 99             | V        |
| 6      | * 9.45                 | 27.6                       | PK  | 36.6              | -24.7                        | 0               | 39.5                                 | -                        | -              | 74                        | -34.5                | -                                          | -                    | 0-360             | 202            | V        |
| 1      | 3.493                  | 37.47                      | PK  | 32.8              | -31.9                        | 0               | 38.37                                | -                        | -              | -                         | -                    | 68.2                                       | -29.83               | 0-360             | 99             | H        |
| 2      | 3.494                  | 36.65                      | PK  | 32.8              | -31.9                        | 0               | 37.55                                | -                        | -              | -                         | -                    | 68.2                                       | -30.65               | 0-360             | 202            | V        |
| 3      | 10.479                 | 31.75                      | PK  | 37.4              | -23.8                        | 0               | 45.35                                | -                        | -              | -                         | -                    | 68.2                                       | -22.85               | 0-360             | 202            | H        |
| 4      | 10.487                 | 29.49                      | PK  | 37.4              | -23.8                        | 0               | 43.09                                | -                        | -              | -                         | -                    | 68.2                                       | -25.11               | 0-360             | 202            | V        |

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

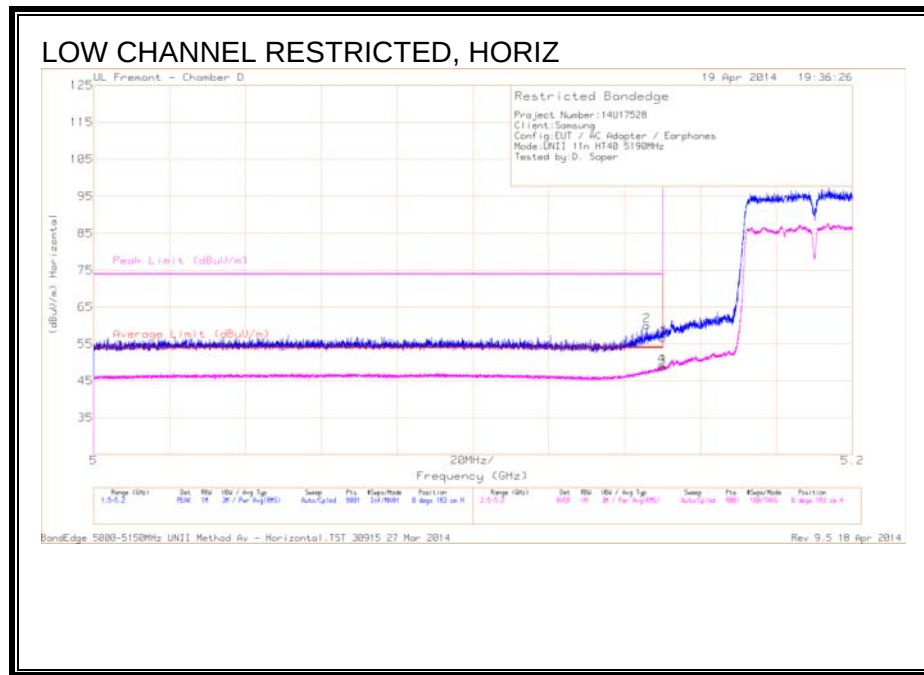
PK - Peak detector

### Radiated Emissions

| Frequenc<br>y<br>(GHz) | Meter<br>Reading<br>(dBuV) | Det  | AF T345<br>(dB/m) | Ampl/Cbl/<br>Ftr/Pad<br>(dB) | DC Corr<br>(dB) | Correcte<br>d<br>Reading<br>(dBuV/m) | Avg Limit<br>(dBuV/m) | Margin<br>(dB) | Peak Limit<br>(dBuV/m) | PK<br>Margin<br>(dB) | UNII Non-<br>Restricted<br>(dBuV/m) | PK<br>Margin<br>(dB) | Azimuth<br>(Degs) | Height<br>(cm) | Polarity |
|------------------------|----------------------------|------|-------------------|------------------------------|-----------------|--------------------------------------|-----------------------|----------------|------------------------|----------------------|-------------------------------------|----------------------|-------------------|----------------|----------|
| * 1.283                | 40.79                      | PK2  | 28.7              | -34.4                        | 0               | 35.09                                | -                     | -              | 74                     | -38.91               | -                                   | -                    | 0                 | 100            | H        |
| * 3.702                | 38.93                      | PK2  | 33.3              | -31.2                        | 0               | 41.03                                | -                     | -              | 74                     | -32.97               | -                                   | -                    | 0                 | 100            | H        |
| * 11.51                | 34.37                      | PK2  | 38.1              | -22.9                        | 0               | 49.57                                | -                     | -              | 74                     | -24.43               | -                                   | -                    | 2                 | 109            | H        |
| * 11.51                | 33.87                      | PK2  | 38.1              | -22.9                        | 0               | 49.07                                | -                     | -              | 74                     | -24.93               | -                                   | -                    | 2                 | 109            | H        |
| * 11.51                | 36.99                      | PK2  | 38.1              | -22.9                        | 0               | 52.19                                | -                     | -              | 74                     | -21.81               | -                                   | -                    | 2                 | 109            | H        |
| * 11.51                | 28.66                      | MAV1 | 38.1              | -22.9                        | .6              | 44.46                                | 54                    | -9.54          | -                      | -                    | -                                   | -                    | 2                 | 109            | H        |
| 1.98                   | 40.24                      | PK2  | 31.3              | -33.1                        | 0               | 38.44                                | -                     | -              | -                      | -                    | 68.2                                | -29.76               | 0                 | 100            | V        |
| 6.395                  | 37.16                      | PK2  | 35.6              | -28.4                        | 0               | 44.36                                | -                     | -              | -                      | -                    | 68.2                                | -23.84               | 0                 | 100            | H        |
| 7.86                   | 36.16                      | PK2  | 35.7              | -27.5                        | 0               | 44.36                                | -                     | -              | -                      | -                    | 68.2                                | -23.84               | 0                 | 100            | H        |

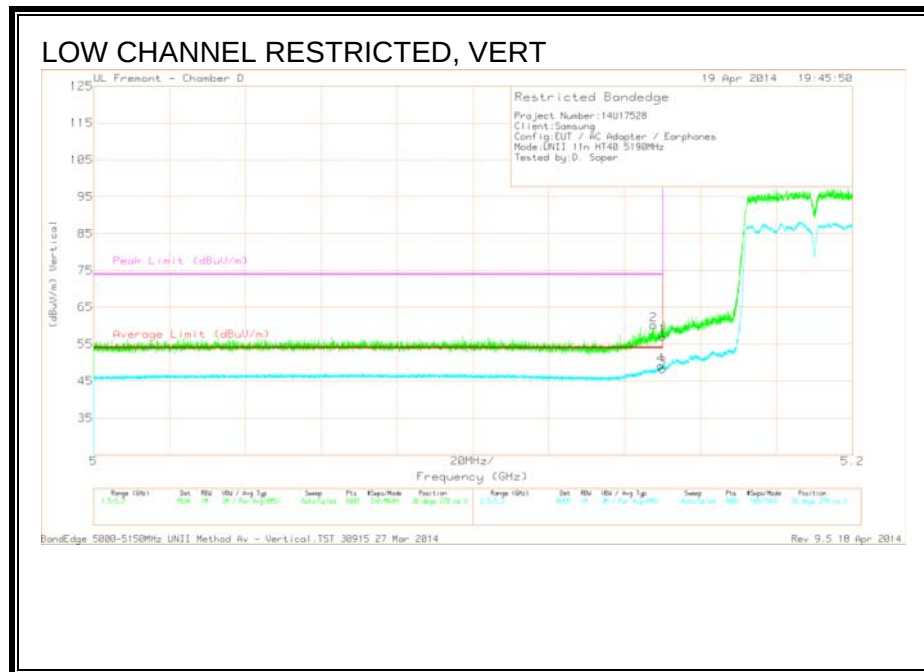
\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

### 10.1.3. TX ABOVE 1 GHz 802.11n HT40 MODE IN THE 5.2 GHz BAND RESTRICTED BANDEDGE (LOW CHANNEL)



| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T712 (dB/m) | Amp/Cbl/FI tr/Pad (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|------------------------|--------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 5.15          | 41.16                | PK  | 33.7           | -18.3                  | 0            | 56.56                      | -                      | -           | 74                  | -17.44         | 0              | 183         | H        |
| 2      | * 5.146         | 44.49                | PK  | 33.7           | -18.2                  | 0            | 59.99                      | -                      | -           | 74                  | -14.01         | 0              | 183         | H        |
| 3      | * 5.15          | 32.12                | RMS | 33.7           | -18.3                  | 1.1          | 48.62                      | 54                     | -5.38       | -                   | -              | 0              | 183         | H        |
| 4      | * 5.15          | 32.46                | RMS | 33.7           | -18.3                  | 1.1          | 48.96                      | 54                     | -5.04       | -                   | -              | 0              | 183         | H        |

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band  
PK - Peak detector  
RMS - RMS detection



| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T712 (dB/m) | Amp/Cbl/Ftr/Pad (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|----------------------|--------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 5.15          | 41.56                | PK  | 33.7           | -18.3                | 0            | 56.96                      | -                      | -           | 74                  | -17.04         | 36             | 278         | V        |
| 2      | * 5.148         | 44.77                | PK  | 33.7           | -18.3                | 0            | 60.17                      | -                      | -           | 74                  | -13.83         | 36             | 278         | V        |
| 3      | * 5.15          | 31.82                | RMS | 33.7           | -18.3                | 1.1          | 48.32                      | 54                     | -5.68       | -                   | -              | 36             | 278         | V        |
| 4      | * 5.149         | 32.67                | RMS | 33.7           | -18.3                | 1.1          | 49.17                      | 54                     | -4.83       | -                   | -              | 36             | 278         | V        |

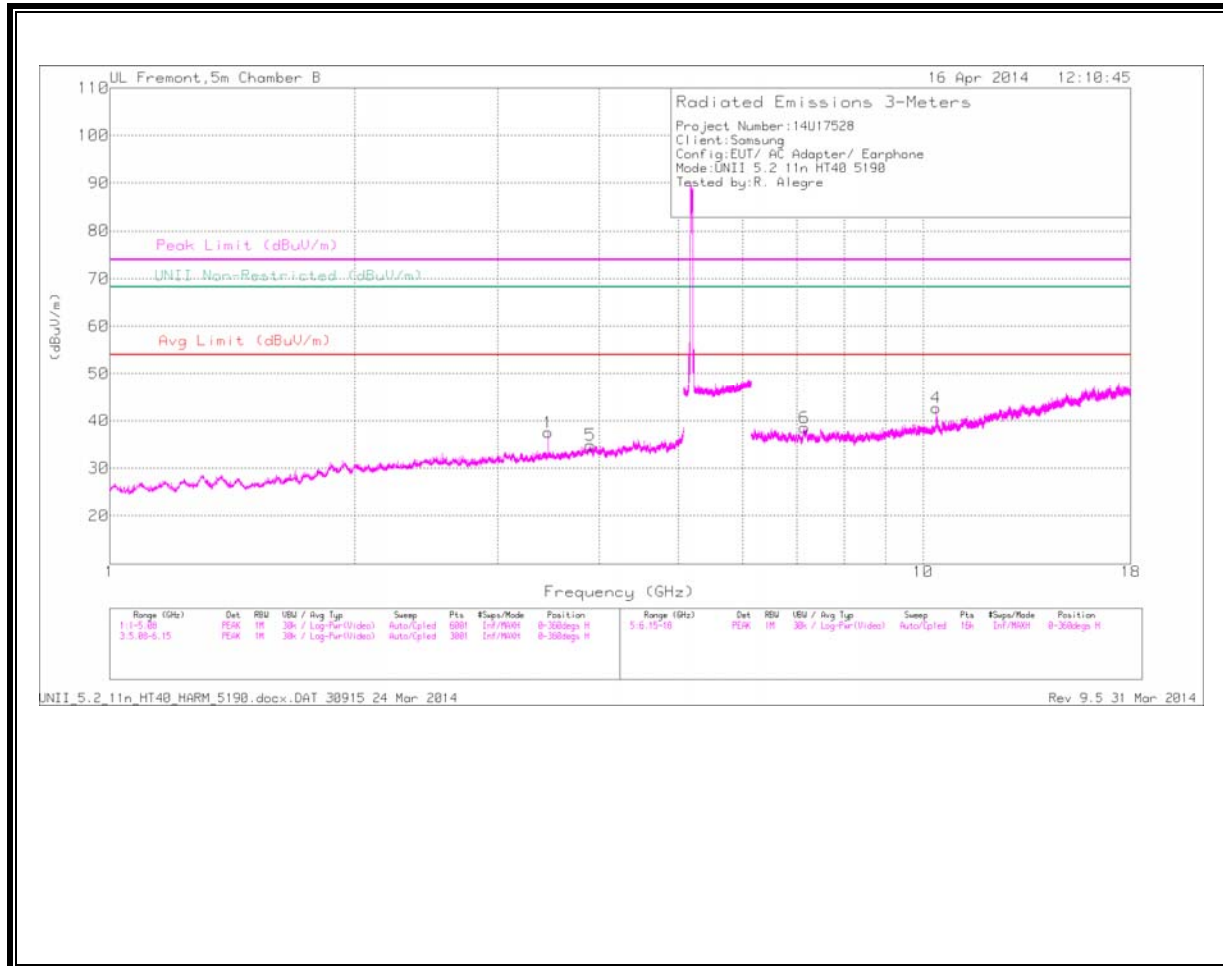
\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

RMS - RMS detection

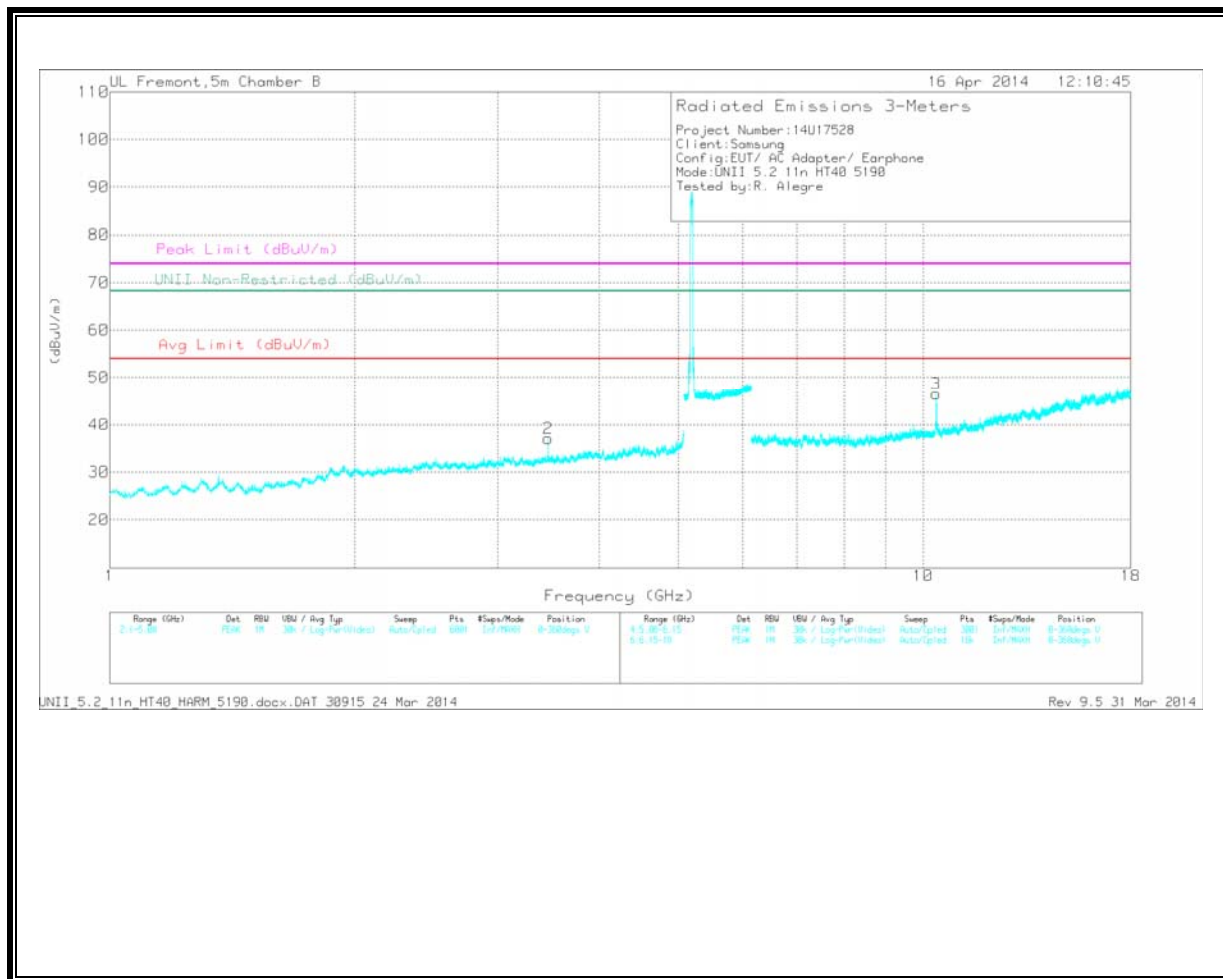
## HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL  
HORIZONTAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

## LOW CHANNEL DATA

| Marker | Frequenc<br>y<br>(GHz) | Meter<br>Reading<br>(dBuV) | Det | AF T345<br>(dB/m) | Ampl/Cbl/<br>Filt/Pad<br>(dB) | DC Corr<br>(dB) | Correcte<br>d<br>Reading<br>(dBuV/m) | Avg<br>Limit<br>(dBuV/m) | Margin<br>(dB) | Peak<br>Limit<br>(dBuV/m) | PK<br>Margin<br>(dB) | UNII<br>Non-<br>Restrict<br>ed<br>(dBuV/m) | PK<br>Margin<br>(dB) | Azimuth<br>(Degs) | Height<br>(cm) | Polarity |
|--------|------------------------|----------------------------|-----|-------------------|-------------------------------|-----------------|--------------------------------------|--------------------------|----------------|---------------------------|----------------------|--------------------------------------------|----------------------|-------------------|----------------|----------|
| 5      | * 3.9                  | 32.59                      | PK  | 33.8              | -31.5                         | 0               | 34.89                                | -                        | -              | 74                        | -39.11               | -                                          | -                    | 0-360             | 99             | H        |
| 1      | 3.46                   | 36.14                      | PK  | 32.8              | -31.4                         | 0               | 37.54                                | -                        | -              | -                         | -                    | 68.2                                       | -30.66               | 0-360             | 99             | H        |
| 2      | 3.46                   | 35.7                       | PK  | 32.8              | -31.4                         | 0               | 37.1                                 | -                        | -              | -                         | -                    | 68.2                                       | -31.1                | 0-360             | 202            | V        |
| 6      | 7.147                  | 30.26                      | PK  | 35.6              | -27.3                         | 0               | 38.56                                | -                        | -              | -                         | -                    | 68.2                                       | -29.64               | 0-360             | 99             | H        |
| 4      | 10.374                 | 28.4                       | PK  | 37.3              | -23                           | 0               | 42.7                                 | -                        | -              | -                         | -                    | 68.2                                       | -25.5                | 0-360             | 99             | H        |
| 3      | 10.379                 | 32.26                      | PK  | 37.3              | -23                           | 0               | 46.56                                | -                        | -              | -                         | -                    | 68.2                                       | -21.64               | 0-360             | 202            | V        |

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

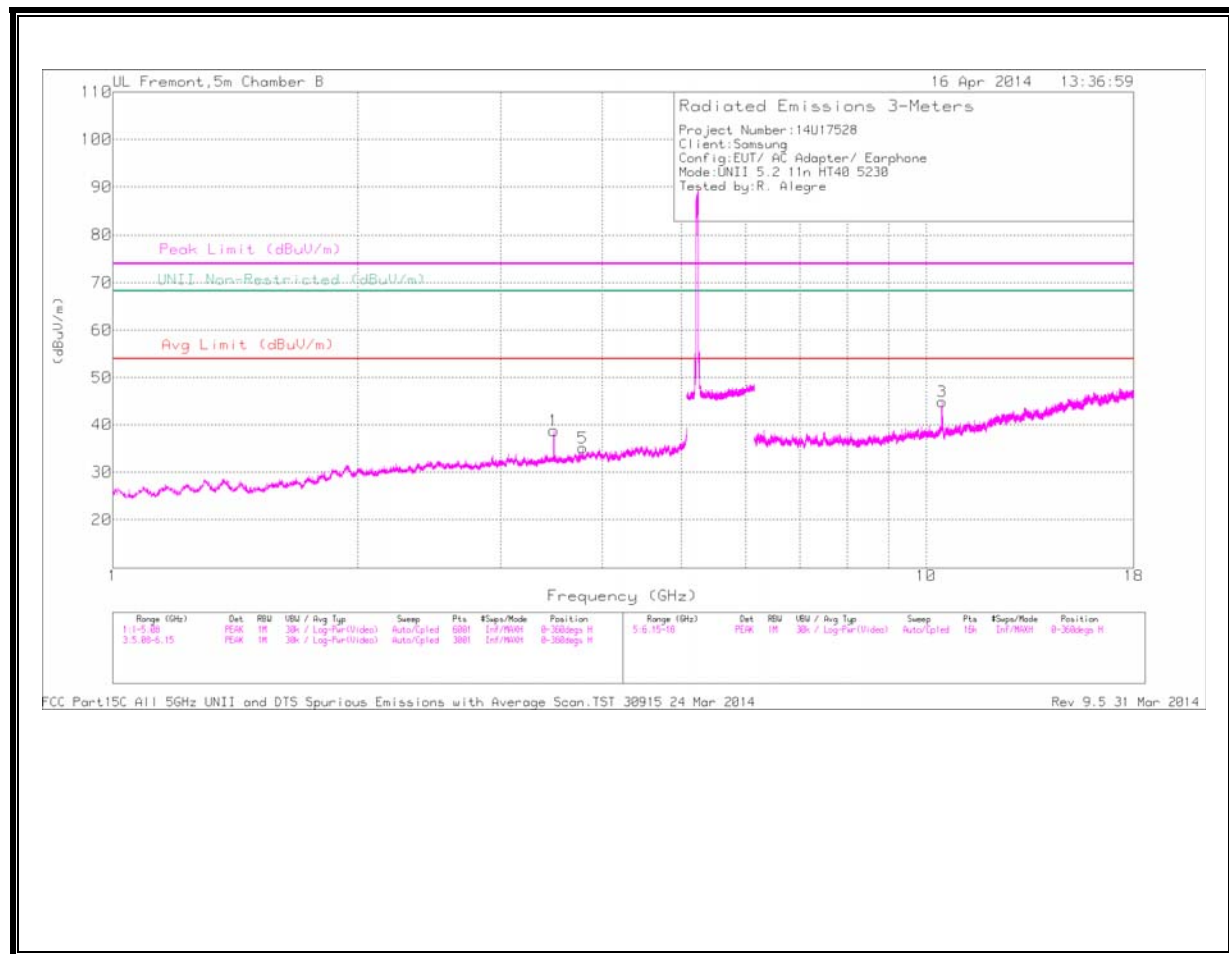
PK - Peak detector

Radiated Emissions

| Frequenc<br>y<br>(GHz) | Meter<br>Reading<br>(dBuV) | Det | AF T345<br>(dB/m) | Ampl/Cbl/<br>Filt/Pad<br>(dB) | DC Corr<br>(dB) | Correcte<br>d<br>Reading<br>(dBuV/m) | Avg Limit<br>(dBuV/m) | Margin<br>(dB) | Peak Limit<br>(dBuV/m) | PK<br>Margin<br>(dB) | UNII Non-<br>Restricted<br>(dBuV/m) | PK<br>Margin<br>(dB) | Azimuth<br>(Degs) | Height<br>(cm) | Polarity |
|------------------------|----------------------------|-----|-------------------|-------------------------------|-----------------|--------------------------------------|-----------------------|----------------|------------------------|----------------------|-------------------------------------|----------------------|-------------------|----------------|----------|
| * 3.902                | 40.62                      | PK1 | 33.8              | -31.4                         | 0               | 43.02                                | -                     | -              | 74                     | -30.98               | -                                   | -                    | 155               | 197            | H        |
| * 3.64                 | 28.96                      | PK1 | 33.2              | -31.1                         | 0               | 31.06                                | -                     | -              | 74                     | -42.94               | -                                   | -                    | 155               | 197            | V        |
| 3.46                   | 42.99                      | PK1 | 32.8              | -31.4                         | 0               | 44.39                                | -                     | -              | -                      | -                    | 68.2                                | -23.81               | 155               | 197            | H        |
| 3.46                   | 34.26                      | AD1 | 32.8              | -31.4                         | 1.1             | 36.76                                | 54                    | 17.24          | 74                     | -37.24               | -                                   | -                    | 155               | 197            | H        |
| 7.146                  | 38.75                      | PK1 | 35.6              | -27.3                         | 0               | 47.05                                | -                     | -              | -                      | -                    | 68.2                                | -21.15               | 155               | 154            | H        |
| 10.374                 | 36.62                      | PK1 | 37.3              | -23                           | 0               | 50.92                                | -                     | -              | -                      | -                    | 68.2                                | -17.28               | 155               | 154            | H        |
| 10.378                 | 34.86                      | PK1 | 37.3              | -23                           | 0               | 49.16                                | -                     | -              | -                      | -                    | 68.2                                | -19.04               | 155               | 154            | V        |
| 10.378                 | 24.4                       | AD1 | 37.3              | -23                           | 1.1             | 39.8                                 | 54                    | -14.2          | 74                     | -34.2                | -                                   | -                    | 155               | 154            | V        |

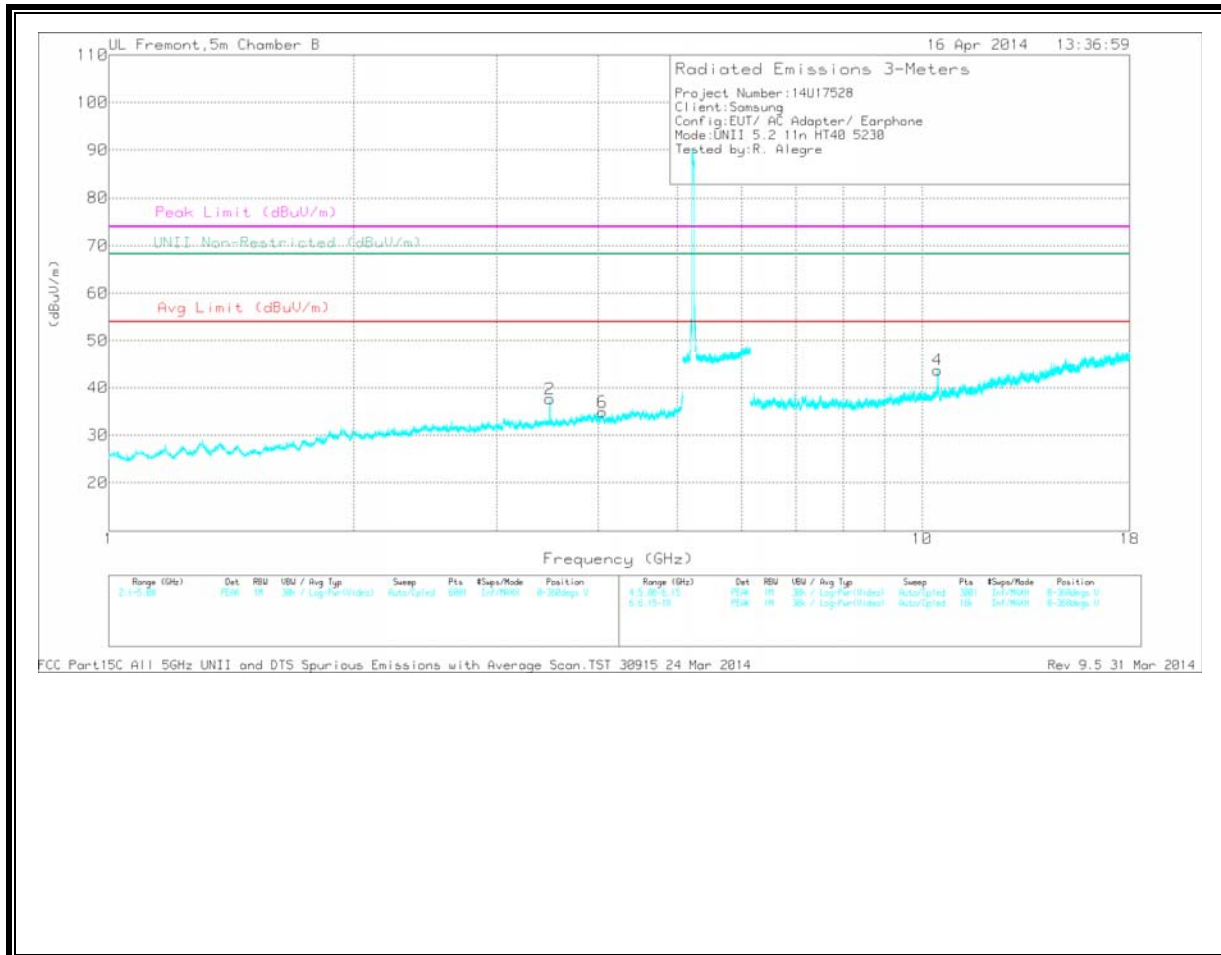
\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

HIGH CHANNEL  
HORIZONTAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

# HIGH CHANNEL DATA

| Marker | Frequenc<br>y<br>(GHz) | Meter<br>Reading<br>(dBuV) | Det | AF T345<br>(dB/m) | Ampl/Cbl/<br>Ftr/Pad<br>(dB) | DC Corr<br>(dB) | Correcte<br>d<br>Reading<br>(dBuV/m) | Avg<br>Limit<br>(dBuV/m) | Margin<br>(dB) | Peak<br>Limit<br>(dBuV/m) | PK<br>Margin<br>(dB) | UNII<br>Non-<br>Restrict<br>ed<br>(dBuV/m) | PK<br>Margin<br>(dB) | Azimuth<br>(Degs) | Height<br>(cm) | Polarity |
|--------|------------------------|----------------------------|-----|-------------------|------------------------------|-----------------|--------------------------------------|--------------------------|----------------|---------------------------|----------------------|--------------------------------------------|----------------------|-------------------|----------------|----------|
| 5      | * 3.783                | 32.48                      | PK  | 33.6              | -31                          | 0               | 35.08                                | -                        | -              | 74                        | -38.92               | -                                          | -                    | 0-360             | 99             | H        |
| 6      | * 4.046                | 31.08                      | PK  | 33.6              | -29.8                        | 0               | 34.88                                | -                        | -              | 74                        | -39.12               | -                                          | -                    | 0-360             | 202            | V        |
| 1      | 3.487                  | 37.77                      | PK  | 32.8              | -31.8                        | 0               | 38.77                                | -                        | -              | -                         | -                    | 68.2                                       | -29.43               | 0-360             | 99             | H        |
| 2      | 3.487                  | 36.67                      | PK  | 32.8              | -31.8                        | 0               | 37.67                                | -                        | -              | -                         | -                    | 68.2                                       | -30.53               | 0-360             | 202            | V        |
| 4      | 10.448                 | 29.93                      | PK  | 37.4              | -23.6                        | 0               | 43.73                                | -                        | -              | -                         | -                    | 68.2                                       | -24.47               | 0-360             | 202            | V        |
| 3      | 10.461                 | 31.27                      | PK  | 37.4              | -23.8                        | 0               | 44.87                                | -                        | -              | -                         | -                    | 68.2                                       | -23.33               | 0-360             | 202            | H        |

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

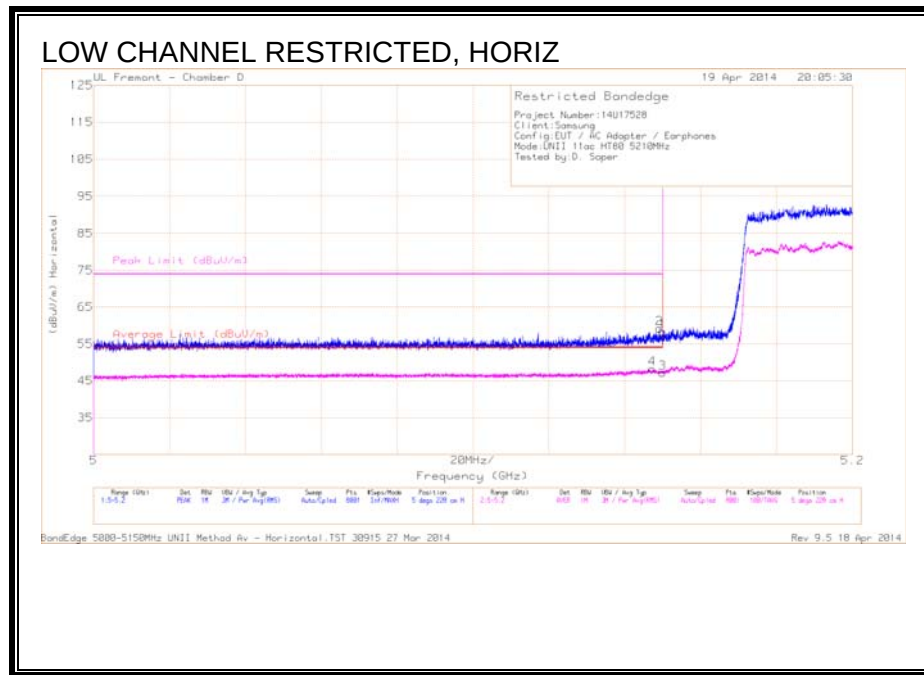
PK - Peak detector

Radiated Emissions

| Frequenc<br>y<br>(GHz) | Meter<br>Reading<br>(dBuV) | Det | AF T345<br>(dB/m) | Ampl/Cbl/<br>Ftr/Pad<br>(dB) | DC Corr<br>(dB) | Correcte<br>d<br>Reading<br>(dBuV/m) | Avg<br>Limit<br>(dBuV/<br>m) | Margin<br>(dB) | Peak Limit<br>(dBuV/m) | PK<br>Margin<br>(dB) | UNII Non-<br>Restricted<br>(dBuV/m) | PK<br>Margin<br>(dB) | Azimuth<br>(Degs) | Height<br>(cm) | Polarity |
|------------------------|----------------------------|-----|-------------------|------------------------------|-----------------|--------------------------------------|------------------------------|----------------|------------------------|----------------------|-------------------------------------|----------------------|-------------------|----------------|----------|
| * 3.784                | 40.19                      | PK1 | 33.6              | -31                          | 0               | 42.79                                | -                            | -              | 74                     | -31.21               | -                                   | -                    | 265               | 230            | H        |
| * 4.043                | 39.56                      | PK1 | 33.6              | -29.8                        | 0               | 43.36                                | -                            | -              | 74                     | -30.64               | -                                   | -                    | 265               | 230            | V        |
| 3.487                  | 41.53                      | PK1 | 32.8              | -31.8                        | 0               | 42.53                                | -                            | -              | -                      | -                    | 68.2                                | -25.67               | 265               | 230            | H        |
| 3.487                  | 32.43                      | AD1 | 32.8              | -31.8                        | 1.1             | 34.53                                | 54                           | -19.47         | -                      | -                    | -                                   | -                    | 265               | 230            | H        |
| 3.488                  | 41.14                      | PK1 | 32.8              | -31.8                        | 0               | 42.14                                | -                            | -              | -                      | -                    | 68.2                                | -26.06               | 265               | 230            | V        |
| 10.449                 | 34.26                      | PK1 | 37.4              | -23.6                        | 0               | 48.06                                | -                            | -              | -                      | -                    | 68.2                                | -20.14               | 265               | 230            | V        |
| 10.46                  | 24.69                      | AD1 | 37.4              | -23.8                        | 1.1             | 39.39                                | 54                           | -14.61         | -                      | -                    | -                                   | -                    | 265               | 230            | H        |
| 10.461                 | 35.35                      | PK1 | 37.4              | -23.8                        | 0               | 48.95                                | -                            | -              | -                      | -                    | 68.2                                | -19.25               | 265               | 230            | H        |

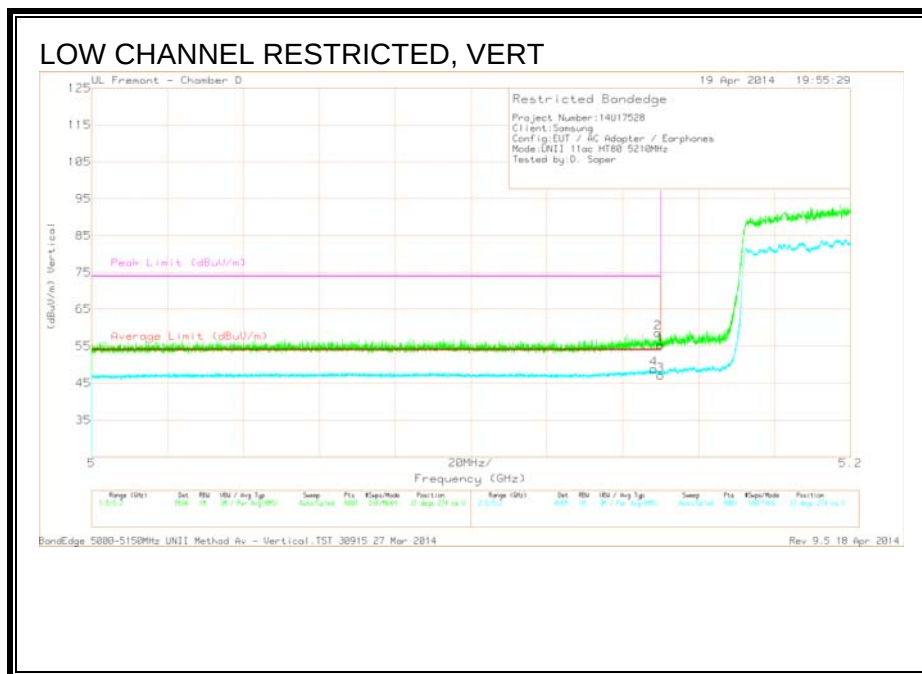
\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

# **10.1.4. TX ABOVE 1 GHz 802.11ac HT80 MODE IN THE 5.2 GHz BAND RESTRICTED BANDEDGE (LOW CHANNEL)**



| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T712 (dB/m) | Amp/Cbl/FI tr/Pad (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|------------------------|--------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 5.15          | 42.94                | PK  | 33.7           | -18.3                  | 0            | 58.34                      | -                      | -           | 74                  | -15.66         | 5              | 228         | H        |
| 2      | * 5.149         | 43.8                 | PK  | 33.7           | -18.3                  | 0            | 59.2                       | -                      | -           | 74                  | -14.8          | 5              | 228         | H        |
| 3      | * 5.15          | 30.66                | RMS | 33.7           | -18.3                  | 1.9          | 47.16                      | 54                     | -6.84       | -                   | -              | 5              | 228         | H        |
| 4      | * 5.147         | 31.78                | RMS | 33.7           | -18.3                  | 1.9          | 48.28                      | 54                     | -5.72       | -                   | -              | 5              | 228         | H        |

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band  
PK - Peak detector  
RMS - RMS detection



| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T712 (dB/m) | Amp/Cbl/Ftr/Pad (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|----------------------|--------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 5.15          | 39.88                | PK  | 33.7           | -18.3                | 0            | 55.28                      | -                      | -           | 74                  | -18.72         | 37             | 274         | V        |
| 2      | * 5.149         | 43.18                | PK  | 33.7           | -18.3                | 0            | 58.58                      | -                      | -           | 74                  | -15.42         | 37             | 274         | V        |
| 3      | * 5.15          | 29.81                | RMS | 33.7           | -18.3                | 1.9          | 47.11                      | 54                     | -6.89       | -                   | -              | 37             | 274         | V        |
| 4      | * 5.148         | 31.52                | RMS | 33.7           | -18.3                | 1.9          | 48.82                      | 54                     | -5.18       | -                   | -              | 37             | 274         | V        |

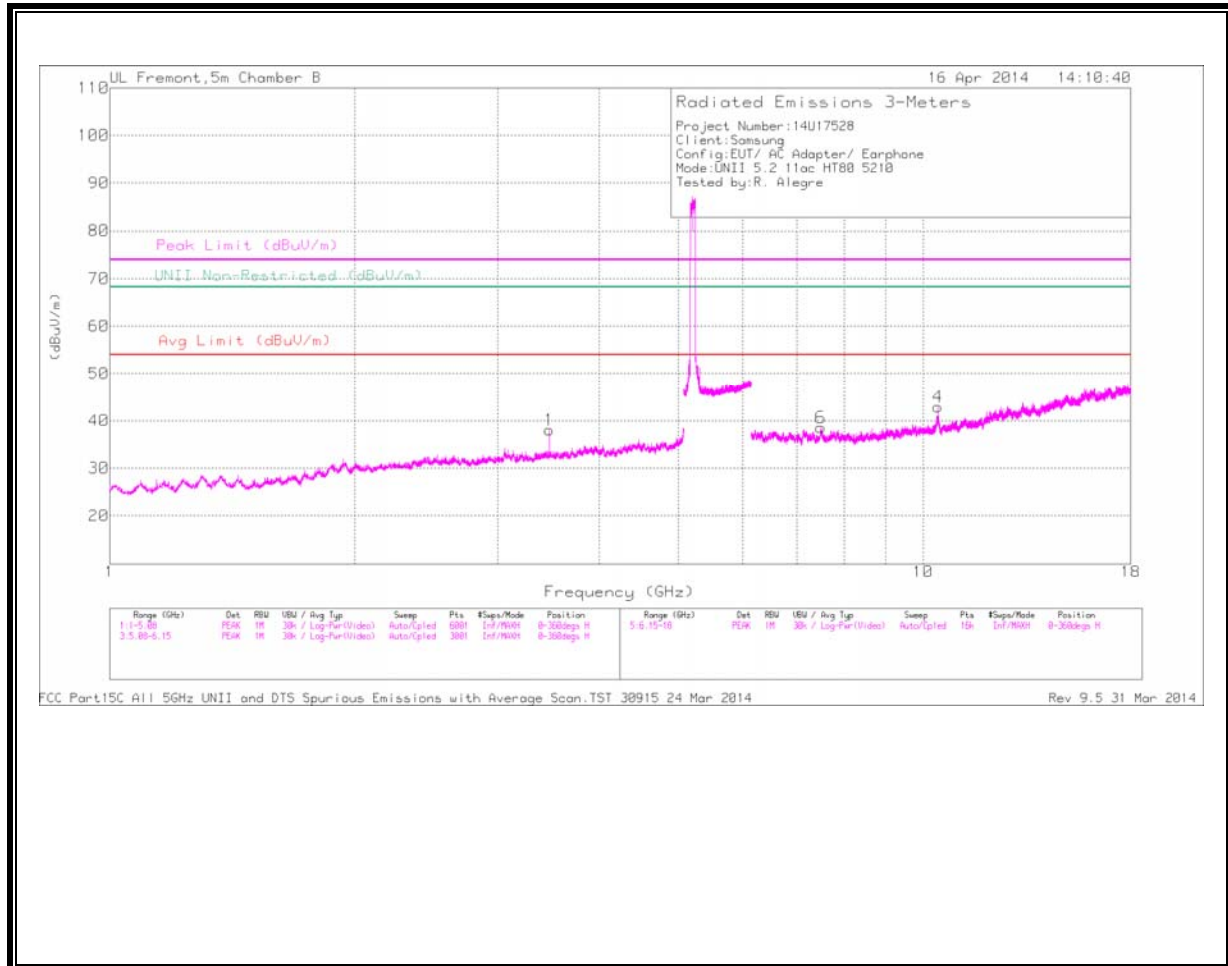
\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

RMS - RMS detection

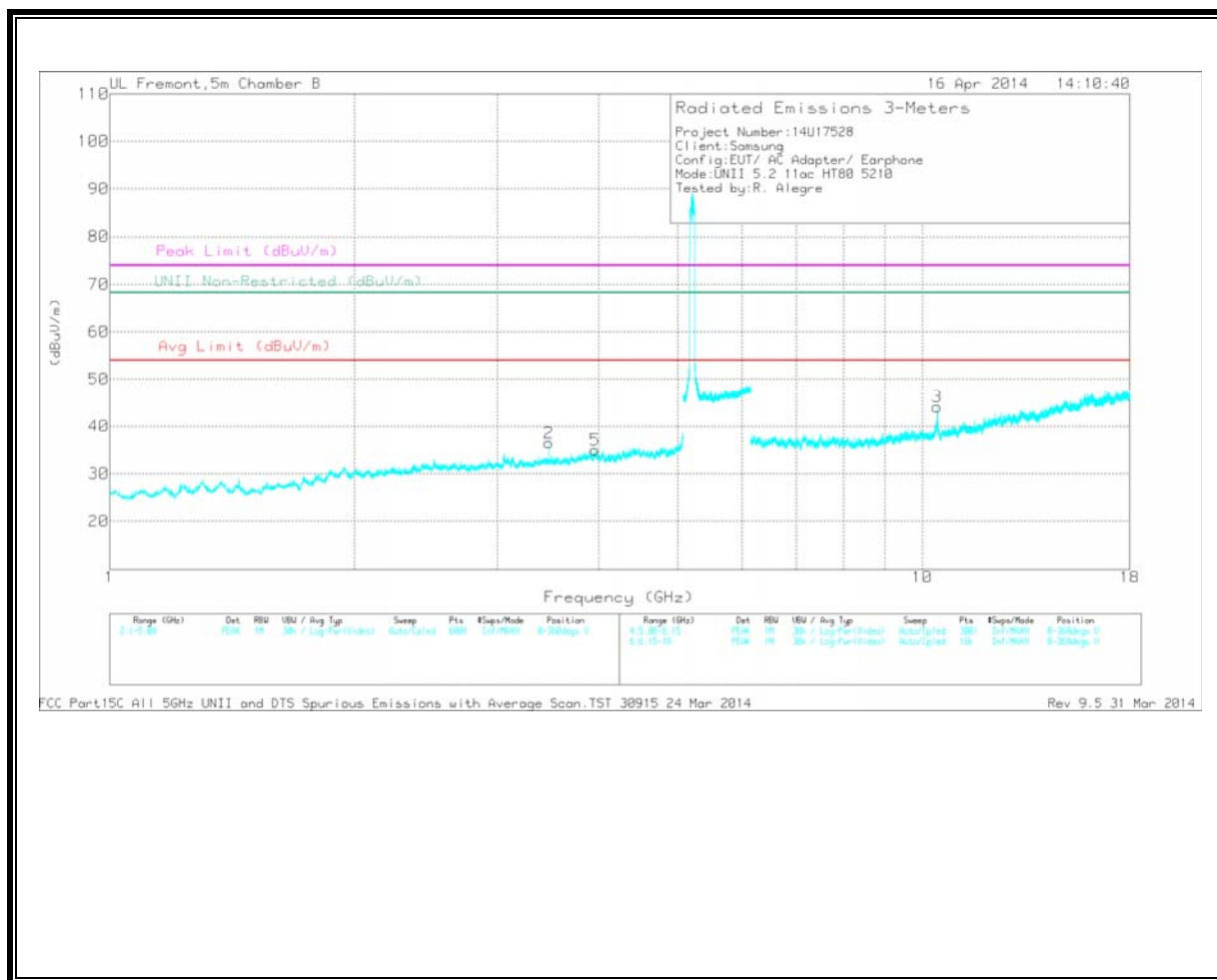
## HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL  
HORIZONTAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

## LOW CHANNEL DATA

| Marker | Frequenc<br>y<br>(GHz) | Meter<br>Reading<br>(dBuV) | Det | AF T345<br>(dB/m) | Ampl/Cbl/<br>Ftr/Pad<br>(dB) | DC Corr<br>(dB) | Correcte<br>d<br>Reading<br>(dBuV/m) | Avg<br>Limit<br>(dBuV/m) | Margin<br>(dB) | Peak<br>Limit<br>(dBuV/m) | PK<br>Margin<br>(dB) | UNII<br>Non-<br>Restrict<br>ed<br>(dBuV/m) | PK<br>Margin<br>(dB) | Azimuth<br>(Degs) | Height<br>(cm) | Polarity |
|--------|------------------------|----------------------------|-----|-------------------|------------------------------|-----------------|--------------------------------------|--------------------------|----------------|---------------------------|----------------------|--------------------------------------------|----------------------|-------------------|----------------|----------|
| 5      | * 3.959                | 31.32                      | PK  | 33.7              | -30                          | 0               | 35.02                                | -                        | -              | 74                        | -38.98               | -                                          | -                    | 0-360             | 99             | V        |
| 6      | * 7.487                | 28.78                      | PK  | 35.6              | -25.8                        | 0               | 38.58                                | -                        | -              | 74                        | -35.42               | -                                          | -                    | 0-360             | 99             | H        |
| 1      | 3.473                  | 36.88                      | PK  | 32.8              | -31.6                        | 0               | 38.08                                | -                        | -              | -                         | -                    | 68.2                                       | -30.12               | 0-360             | 202            | H        |
| 2      | 3.473                  | 35.32                      | PK  | 32.8              | -31.6                        | 0               | 36.52                                | -                        | -              | -                         | -                    | 68.2                                       | -31.68               | 0-360             | 202            | V        |
| 4      | 10.434                 | 28.94                      | PK  | 37.4              | -23.4                        | 0               | 42.94                                | -                        | -              | -                         | -                    | 68.2                                       | -25.26               | 0-360             | 201            | H        |
| 3      | 10.434                 | 30.12                      | PK  | 37.4              | -23.4                        | 0               | 44.12                                | -                        | -              | -                         | -                    | 68.2                                       | -24.08               | 0-360             | 202            | V        |

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

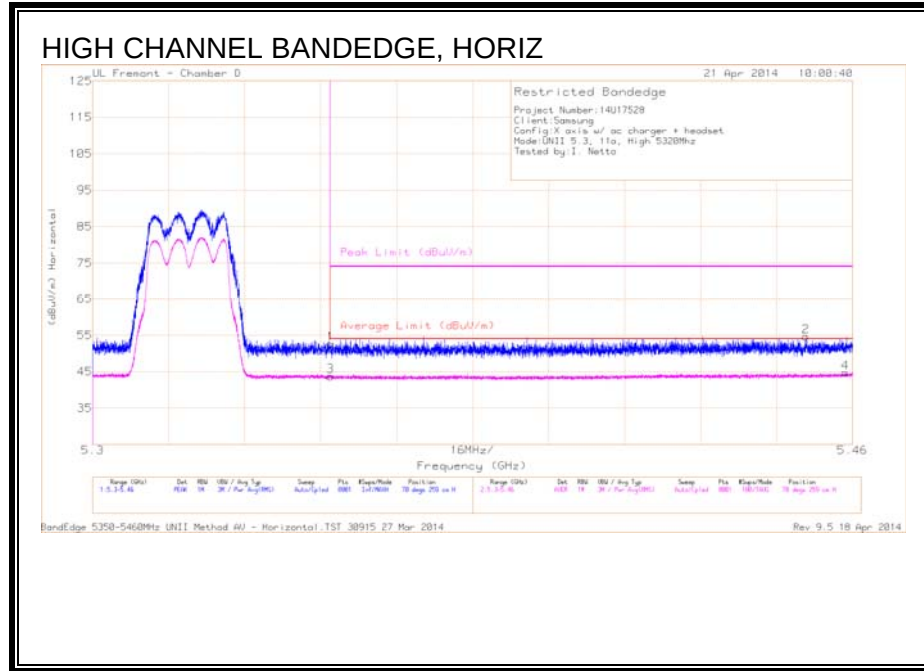
Radiated Emissions

| Frequenc<br>y<br>(GHz) | Meter<br>Reading<br>(dBuV) | Det | AF T345<br>(dB/m) | Ampl/Cbl/<br>Ftr/Pad<br>(dB) | DC Corr<br>(dB) | Correcte<br>d<br>Reading<br>(dBuV/m) | Avg Limit<br>(dBuV/m) | Margin<br>(dB) | Peak Limit<br>(dBuV/m) | PK<br>Margin<br>(dB) | UNII Non-<br>Restricted<br>(dBuV/m) | PK<br>Margin<br>(dB) | Azimuth<br>(Degs) | Height<br>(cm) | Polarity |
|------------------------|----------------------------|-----|-------------------|------------------------------|-----------------|--------------------------------------|-----------------------|----------------|------------------------|----------------------|-------------------------------------|----------------------|-------------------|----------------|----------|
| * 3.956                | 40.77                      | PK1 | 33.7              | -30                          | 0               | 44.47                                | -                     | -              | 74                     | -29.53               | -                                   | -                    | 105               | 245            | V        |
| * 7.488                | 37.26                      | PK1 | 35.6              | -25.8                        | 0               | 47.06                                | -                     | -              | 74                     | -26.94               | -                                   | -                    | 105               | 245            | H        |
| 3.473                  | 31.21                      | AD1 | 32.8              | -31.6                        | 1.9             | 34.31                                | 54                    | 19.69          | -                      | -                    | -                                   | -                    | 105               | 191            | H        |
| 3.473                  | 41.78                      | PK1 | 32.8              | -31.6                        | 0               | 42.98                                | -                     | -              | -                      | -                    | 68.2                                | -25.22               | 105               | 245            | V        |
| 3.474                  | 41.5                       | PK1 | 32.8              | -31.6                        | 0               | 42.7                                 | -                     | -              | -                      | -                    | 68.2                                | -25.5                | 105               | 191            | H        |
| 10.434                 | 25.73                      | AD1 | 37.4              | -23.4                        | 1.9             | 41.63                                | 54                    | 12.37          | -                      | -                    | -                                   | -                    | 105               | 245            | V        |
| 10.436                 | 34.99                      | PK1 | 37.4              | -23.4                        | 0               | 48.99                                | -                     | -              | -                      | -                    | 68.2                                | -19.21               | 105               | 245            | H        |
| 10.436                 | 38.45                      | PK1 | 37.4              | -23.4                        | 0               | 52.45                                | -                     | -              | -                      | -                    | 68.2                                | -15.75               | 105               | 245            | V        |

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

## 10.2. 5.3 GHz

### 10.2.1. TX ABOVE 1 GHz 802.11a MODE IN THE 5.3 GHz BAND AUTHORIZED BANDEDGE (HIGH CHANNEL)

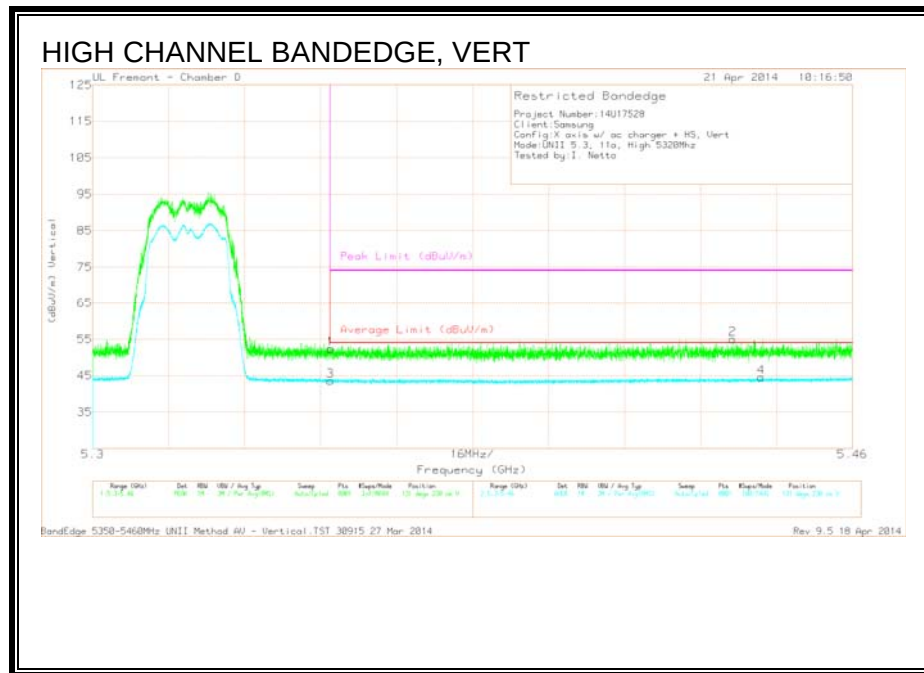


| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T712 (dB/m) | Amp/Cbl/FI tri/Pad (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|-------------------------|--------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 5.35          | 36.91                | PK  | 33.8           | -18.1                   | 0            | 52.61                      | -                      | -           | 74                  | -21.39         | 70             | 259         | H        |
| 2      | * 5.45          | 38.79                | PK  | 33.9           | -18                     | 0            | 54.69                      | -                      | -           | 74                  | -19.31         | 70             | 259         | H        |
| 3      | * 5.35          | 27.87                | RMS | 33.8           | -18.1                   | .3           | 43.77                      | 54                     | -10.23      | -                   | -              | 70             | 259         | H        |
| 4      | * 5.458         | 28.44                | RMS | 33.9           | -17.8                   | .3           | 44.74                      | 54                     | -9.26       | -                   | -              | 70             | 259         | H        |

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

RMS - RMS detection



| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T712 (dB/m) | Amp/Cbl/FI tr/Pad (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|------------------------|--------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 5.35          | 36.73                | PK  | 33.8           | -18.1                  | 0            | 52.43                      | -                      | -           | 74                  | -21.57         | 131            | 230         | V        |
| 2      | * 5.435         | 39.17                | PK  | 33.9           | -18                    | 0            | 55.07                      | -                      | -           | 74                  | -18.93         | 131            | 230         | V        |
| 3      | * 5.35          | 27.68                | RMS | 33.8           | -18.1                  | .3           | 43.58                      | 54                     | -10.42      | -                   | -              | 131            | 230         | V        |
| 4      | * 5.441         | 28.52                | RMS | 33.9           | -18                    | .3           | 44.62                      | 54                     | -9.38       | -                   | -              | 131            | 230         | V        |

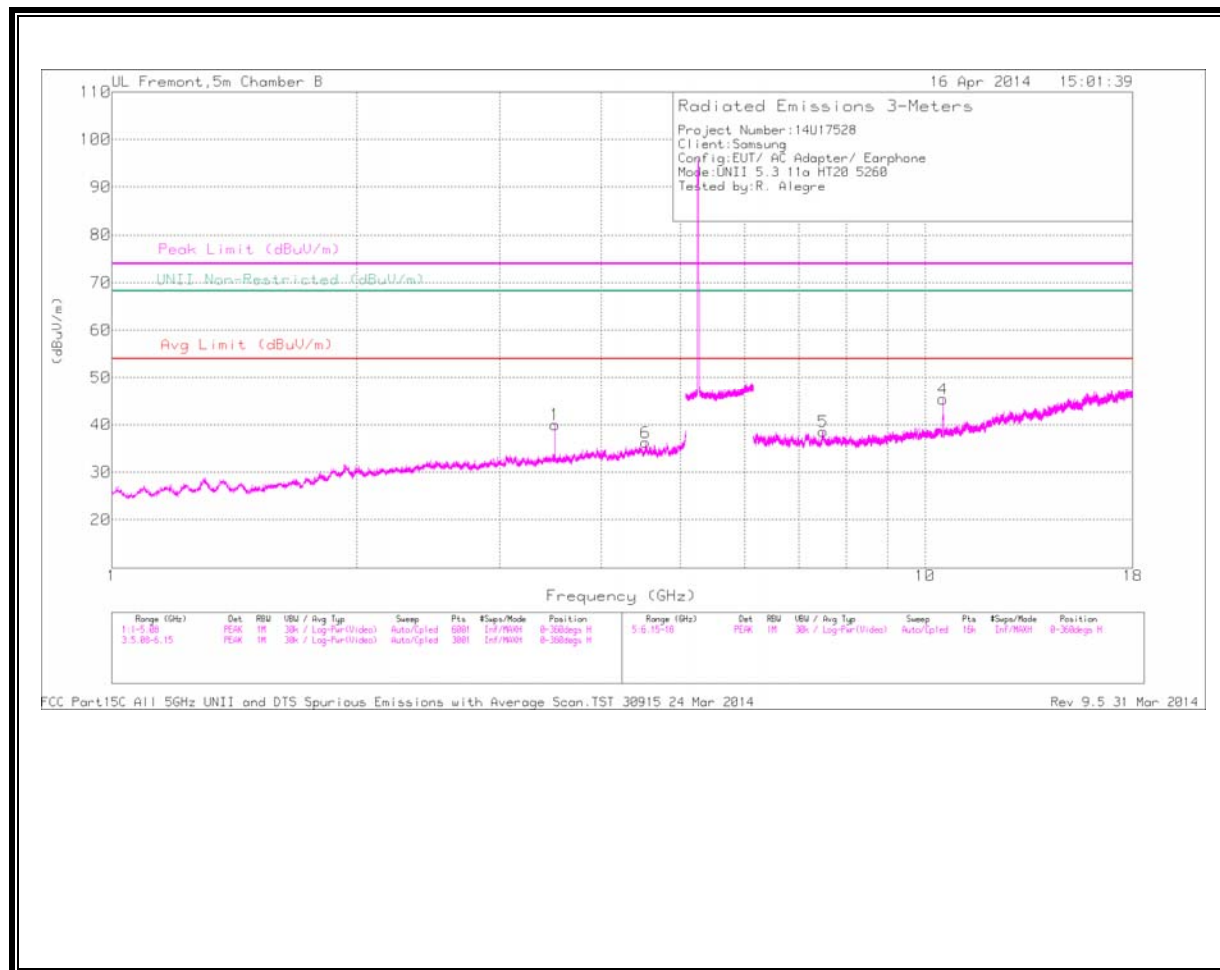
\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

RMS - RMS detection

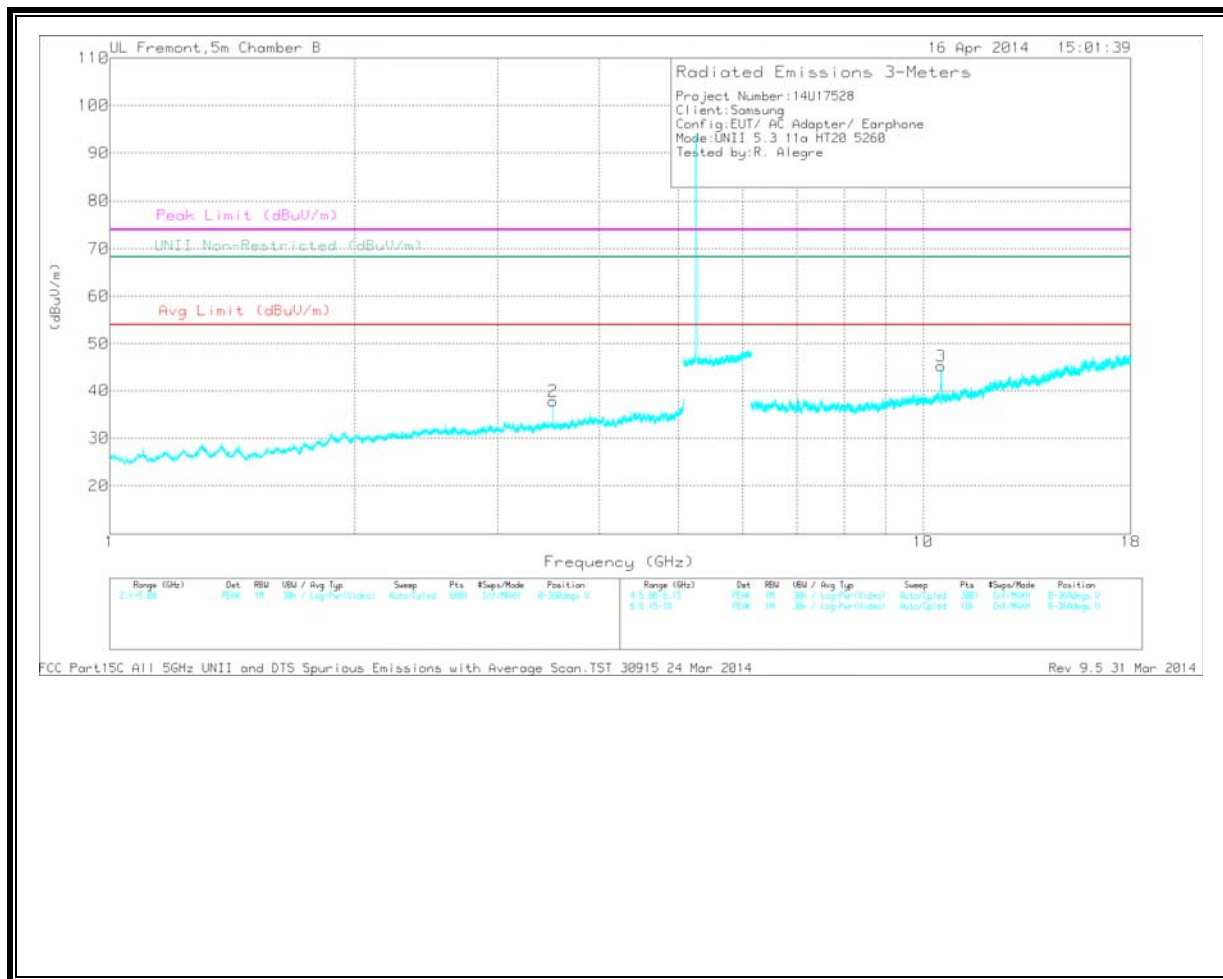
## HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL  
HORIZONTAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

## LOW CHANNEL DATA

| Marker | Frequenc<br>y<br>(GHz) | Meter<br>Reading<br>(dBuV) | Det | AF T345<br>(dB/m) | Ampl/Cbl/<br>Filt/Pad<br>(dB) | DC Corr<br>(dB) | Correcte<br>d<br>Reading<br>(dBuV/m) | Avg Limit<br>(dBuV/m) | Margin<br>(dB) | Peak<br>Limit<br>(dBuV/m) | PK<br>Margin<br>(dB) | UNII<br>Non-<br>Restrict<br>ed<br>(dBuV/m) | PK<br>Margin<br>(dB) | Azimuth<br>(Degs) | Height<br>(cm) | Polarity |
|--------|------------------------|----------------------------|-----|-------------------|-------------------------------|-----------------|--------------------------------------|-----------------------|----------------|---------------------------|----------------------|--------------------------------------------|----------------------|-------------------|----------------|----------|
| 1      | * 3.506                | 38.99                      | PK  | 32.8              | -31.8                         | 0               | 39.99                                | -                     | -              | 74                        | -34.01               | -                                          | -                    | 0-360             | 99             | H        |
| 6      | * 4.535                | 32.63                      | PK  | 34.1              | -30.5                         | 0               | 36.23                                | -                     | -              | 74                        | -37.77               | -                                          | -                    | 0-360             | 99             | H        |
| 2      | * 3.506                | 36.84                      | PK  | 32.8              | -31.8                         | 0               | 37.84                                | -                     | -              | 74                        | -36.16               | -                                          | -                    | 0-360             | 202            | V        |
| 5      | * 7.49                 | 28.62                      | PK  | 35.6              | -25.7                         | 0               | 38.52                                | -                     | -              | 74                        | -35.48               | -                                          | -                    | 0-360             | 202            | H        |
| 3      | 10.518                 | 31.62                      | PK  | 37.5              | -23.9                         | 0               | 45.22                                | -                     | -              | -                         | -                    | 68.2                                       | -22.98               | 0-360             | 202            | V        |
| 4      | 10.52                  | 31.71                      | PK  | 37.5              | -23.8                         | 0               | 45.41                                | -                     | -              | -                         | -                    | 68.2                                       | -22.79               | 0-360             | 202            | H        |

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

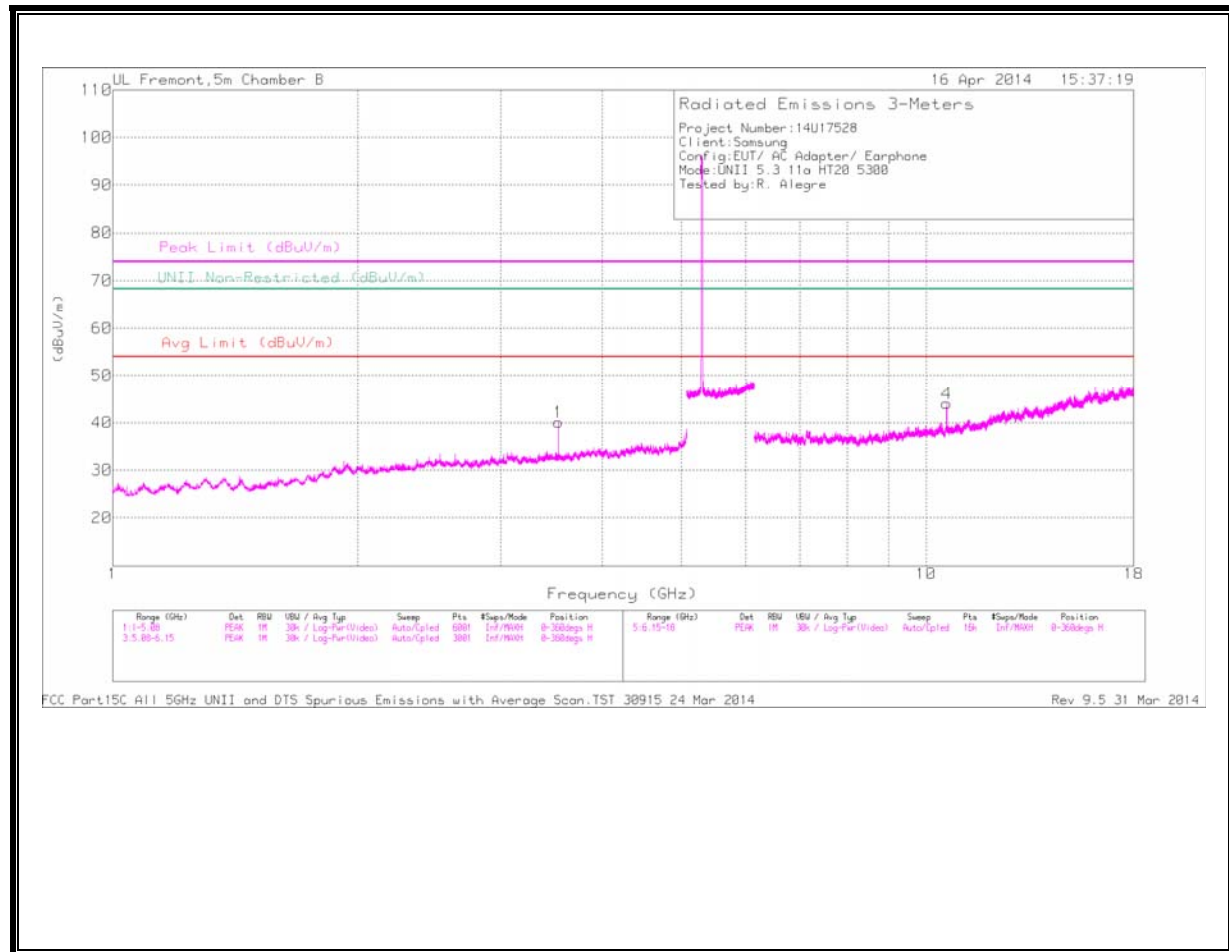
PK - Peak detector

Radiated Emissions

| Frequenc<br>y<br>(GHz) | Meter<br>Reading<br>(dBuV) | Det | AF T345<br>(dB/m) | Ampl/Cbl/<br>Filt/Pad<br>(dB) | DC Corr<br>(dB) | Correcte<br>d<br>Reading<br>(dBuV/m) | Avg Limit<br>(dBuV/m) | Margin<br>(dB) | Peak Limit<br>(dBuV/m) | PK<br>Margin<br>(dB) | UNII Non-<br>Restricted<br>(dBuV/m) | PK<br>Margin<br>(dB) | Azimuth<br>(Degs) | Height<br>(cm) | Polarity |
|------------------------|----------------------------|-----|-------------------|-------------------------------|-----------------|--------------------------------------|-----------------------|----------------|------------------------|----------------------|-------------------------------------|----------------------|-------------------|----------------|----------|
| * 3.507                | 46.16                      | PK1 | 32.8              | -31.8                         | 0               | 47.16                                | -                     | -              | 74                     | -26.84               | -                                   | -                    | 201               | 249            | H        |
| * 3.507                | 40.82                      | AD1 | 32.8              | -31.8                         | .3              | 42.12                                | 54                    | -11.88         | -                      | -                    | -                                   | -                    | 201               | 249            | H        |
| * 4.534                | 40.52                      | PK1 | 34.1              | -30.6                         | 0               | 44.02                                | -                     | -              | 74                     | -29.98               | -                                   | -                    | 201               | 249            | H        |
| * 3.506                | 42.08                      | PK1 | 32.8              | -31.8                         | 0               | 43.08                                | -                     | -              | 74                     | -30.92               | -                                   | -                    | 239               | 255            | V        |
| * 7.49                 | 37.17                      | PK1 | 35.6              | -25.7                         | 0               | 47.07                                | -                     | -              | 74                     | -26.93               | -                                   | -                    | 239               | 255            | H        |
| 10.518                 | 35.82                      | PK1 | 37.5              | -23.9                         | 0               | 49.42                                | -                     | -              | -                      | -                    | 68.2                                | -18.78               | 239               | 255            | V        |
| 10.519                 | 43.06                      | PK1 | 37.5              | -23.9                         | 0               | 56.66                                | -                     | -              | -                      | -                    | 68.2                                | -11.54               | 239               | 255            | H        |
| 10.519                 | 31.89                      | AD1 | 37.5              | -23.9                         | .3              | 45.79                                | 54                    | -8.21          | -                      | -                    | -                                   | -                    | 239               | 255            | H        |

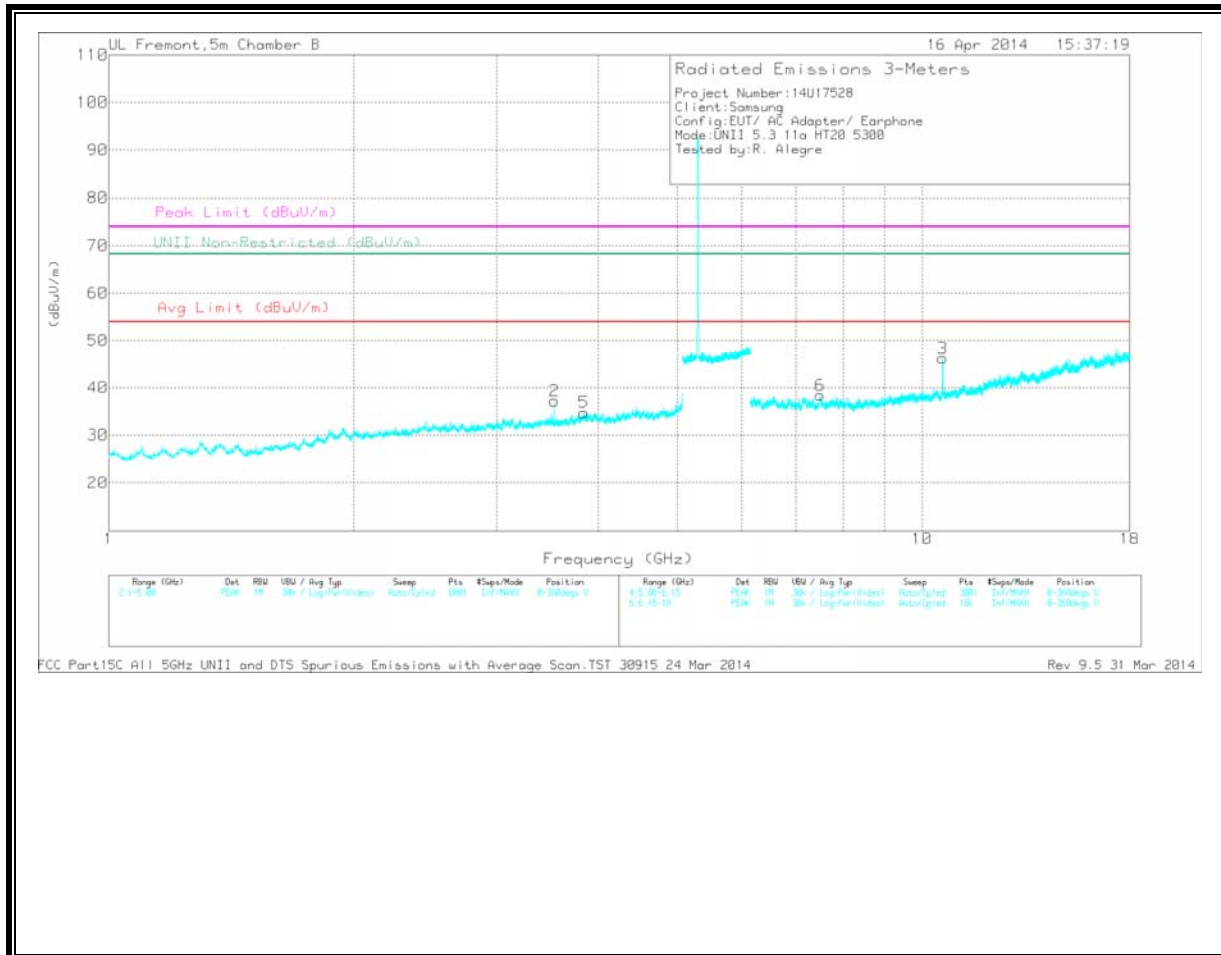
\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

MID CHANNEL  
HORIZONTAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

# MID CHANNEL DATA

| Marker | Frequenc<br>y<br>(GHz) | Meter<br>Reading<br>(dBuV) | Det | AF T345<br>(dB/m) | Ampl/Cbl/<br>Ftr/Pad<br>(dB) | DC Corr<br>(dB) | Correcte<br>d<br>Reading<br>(dBuV/m) | Avg<br>Limit<br>(dBuV/m) | Margin<br>(dB) | Peak<br>Limit<br>(dBuV/m) | PK<br>Margin<br>(dB) | UNII<br>Non-<br>Restrict<br>ed<br>(dBuV/m) | PK<br>Margin<br>(dB) | Azimuth<br>(Degs) | Height<br>(cm) | Polarity |
|--------|------------------------|----------------------------|-----|-------------------|------------------------------|-----------------|--------------------------------------|--------------------------|----------------|---------------------------|----------------------|--------------------------------------------|----------------------|-------------------|----------------|----------|
| 1      | * 3.534                | 39.21                      | PK  | 32.9              | -32                          | 0               | 40.11                                | -                        | -              | 74                        | -33.89               | -                                          | -                    | 0-360             | 99             | H        |
| 2      | * 3.533                | 36.34                      | PK  | 32.9              | -32                          | 0               | 37.24                                | -                        | -              | 74                        | -36.76               | -                                          | -                    | 0-360             | 202            | V        |
| 5      | * 3.839                | 32.19                      | PK  | 33.7              | -31.1                        | 0               | 34.79                                | -                        | -              | 74                        | -39.21               | -                                          | -                    | 0-360             | 99             | V        |
| 4      | *<br>10.602            | 29.53                      | PK  | 37.7              | -23.2                        | 0               | 44.03                                | -                        | -              | 74                        | -29.97               | -                                          | -                    | 0-360             | 202            | H        |
| 6      | * 7.491                | 28.54                      | PK  | 35.6              | -25.7                        | 0               | 38.44                                | -                        | -              | 74                        | -35.56               | -                                          | -                    | 0-360             | 202            | V        |
| 3      | 10.599                 | 31.74                      | PK  | 37.7              | -23.2                        | 0               | 46.24                                | -                        | -              | -                         | -                    | 68.2                                       | -21.96               | 0-360             | 202            | V        |

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

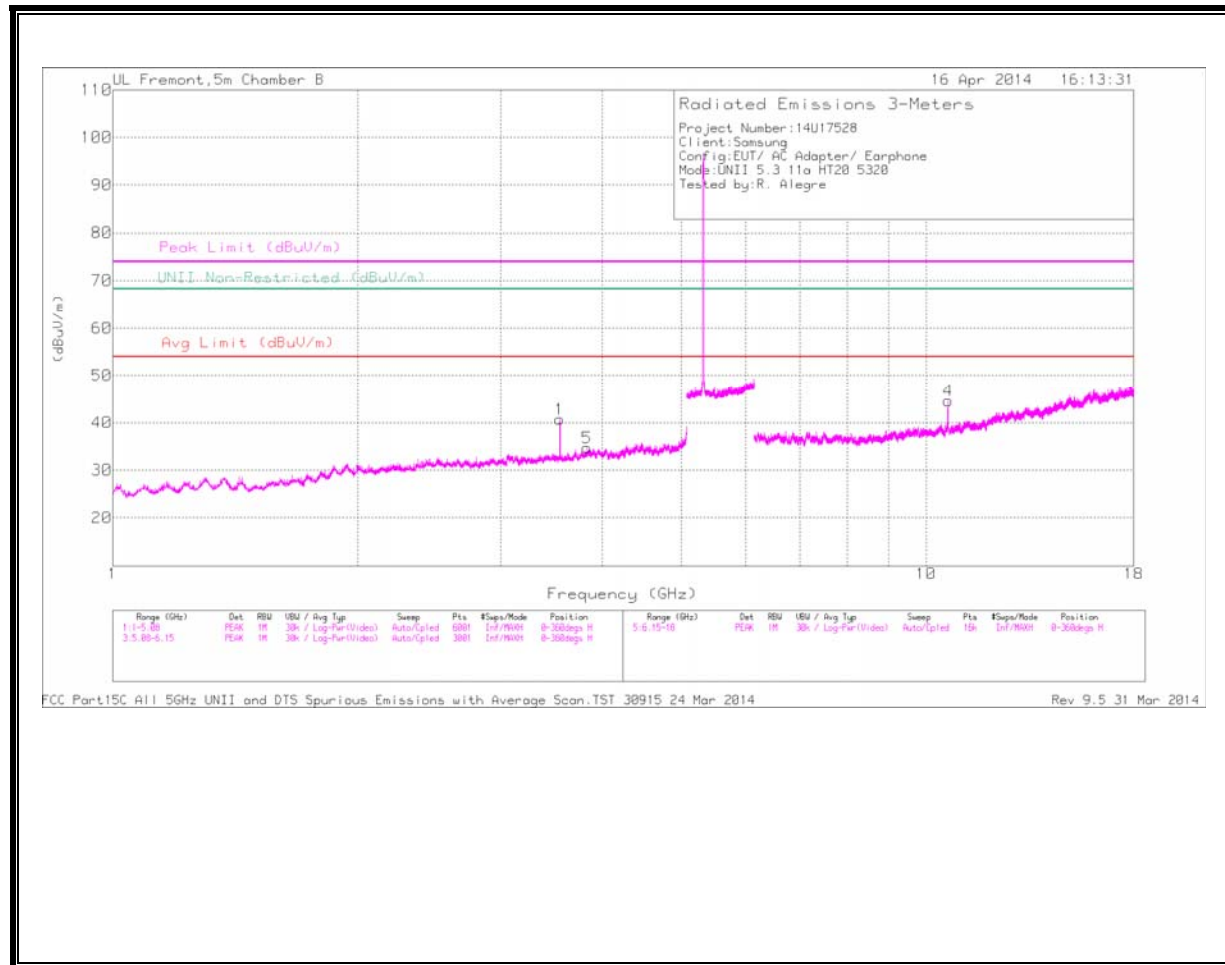
PK - Peak detector

Radiated Emissions

| Frequenc<br>y<br>(GHz) | Meter<br>Reading<br>(dBuV) | Det | AF T345<br>(dB/m) | Ampl/Cbl/<br>Ftr/Pad<br>(dB) | DC Corr<br>(dB) | Correcte<br>d<br>Reading<br>(dBuV/m) | Avg Limit<br>(dBuV/m) | Margin<br>(dB) | Peak Limit<br>(dBuV/m) | PK<br>Margin<br>(dB) | UNII Non-<br>Restricted<br>(dBuV/m) | PK<br>Margin<br>(dB) | Azimuth<br>(Degs) | Height<br>(cm) | Polarity |
|------------------------|----------------------------|-----|-------------------|------------------------------|-----------------|--------------------------------------|-----------------------|----------------|------------------------|----------------------|-------------------------------------|----------------------|-------------------|----------------|----------|
| * 3.534                | 40.48                      | PK1 | 32.9              | -32                          | 0               | 41.38                                | -                     | -              | 74                     | -32.62               | -                                   | -                    | 303               | 256            | H        |
| * 3.533                | 31.86                      | AD1 | 32.9              | -32                          | .3              | 33.06                                | 54                    | -20.94         | -                      | -                    | -                                   | -                    | 303               | 256            | H        |
| * 3.533                | 41.15                      | PK1 | 32.9              | -32                          | 0               | 42.05                                | -                     | -              | 74                     | -31.95               | -                                   | -                    | 303               | 256            | V        |
| * 3.84                 | 40.89                      | PK1 | 33.7              | -31.1                        | 0               | 43.49                                | -                     | -              | 74                     | -30.51               | -                                   | -                    | 303               | 256            | V        |
| * 10.601               | 41.12                      | PK1 | 37.7              | -23.2                        | 0               | 55.62                                | -                     | -              | 74                     | -18.38               | -                                   | -                    | 263               | 215            | H        |
| * 10.6                 | 29.96                      | AD1 | 37.7              | -23.2                        | .3              | 44.76                                | 54                    | -9.24          | -                      | -                    | -                                   | -                    | 263               | 215            | H        |
| * 10.601               | 40.81                      | PK1 | 37.7              | -23.2                        | 0               | 55.31                                | -                     | -              | 74                     | -18.69               | -                                   | -                    | 263               | 215            | H        |
| * 10.6                 | 29.77                      | AD1 | 37.7              | -23.2                        | .3              | 44.57                                | 54                    | -9.43          | -                      | -                    | -                                   | -                    | 263               | 215            | H        |
| * 7.491                | 36.85                      | PK1 | 35.6              | -25.7                        | 0               | 46.75                                | -                     | -              | 74                     | -27.25               | -                                   | -                    | 303               | 256            | V        |
| 10.599                 | 42.15                      | PK1 | 37.7              | -23.2                        | 0               | 56.65                                | -                     | -              | -                      | -                    | 68.2                                | -11.55               | 303               | 256            | V        |
| 10.599                 | 30.26                      | AD1 | 37.7              | -23.2                        | .3              | 45.06                                | 54                    | -8.94          | -                      | -                    | -                                   | -                    | 303               | 256            | V        |

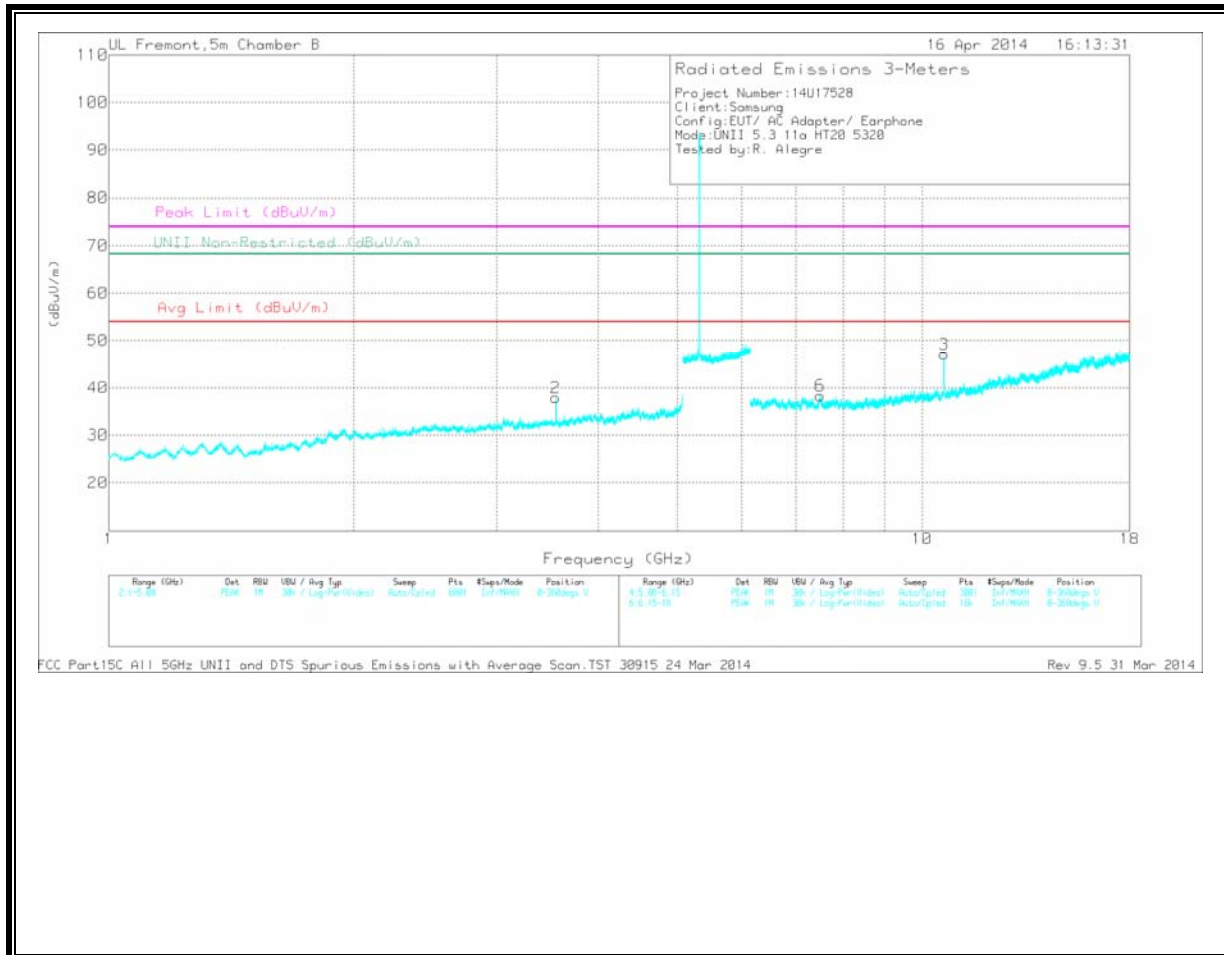
\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

HIGH CHANNEL  
HORIZONTAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

## HIGH CHANNEL DATA

| Marker | Frequenc<br>y<br>(GHz) | Meter<br>Reading<br>(dBuV) | Det | AF T345<br>(dB/m) | Ampl/Cbl/<br>Ftr/Pad<br>(dB) | DC Corr<br>(dB) | Correcte<br>d<br>Reading<br>(dBuV/m) | Avg<br>Limit<br>(dBuV/m) | Margin<br>(dB) | Peak<br>Limit<br>(dBuV/m) | PK<br>Margin<br>(dB) | UNII<br>Non-<br>Restrict<br>ed<br>(dBuV/m) | PK<br>Margin<br>(dB) | Azimuth<br>(Degs) | Height<br>(cm) | Polarity |
|--------|------------------------|----------------------------|-----|-------------------|------------------------------|-----------------|--------------------------------------|--------------------------|----------------|---------------------------|----------------------|--------------------------------------------|----------------------|-------------------|----------------|----------|
| 1      | * 3.547                | 39.52                      | PK  | 33                | -31.8                        | 0               | 40.72                                | -                        | -              | 74                        | -33.28               | -                                          | -                    | 0-360             | 201            | H        |
| 5      | * 3.829                | 31.99                      | PK  | 33.7              | -31                          | 0               | 34.69                                | -                        | -              | 74                        | -39.31               | -                                          | -                    | 0-360             | 99             | H        |
| 2      | * 3.547                | 36.7                       | PK  | 33                | -31.8                        | 0               | 37.9                                 | -                        | -              | 74                        | -36.1                | -                                          | -                    | 0-360             | 202            | V        |
| 4      | *<br>10.646            | 30.15                      | PK  | 37.7              | -23.2                        | 0               | 44.65                                | -                        | -              | 74                        | -29.35               | -                                          | -                    | 0-360             | 202            | H        |
| 3      | *<br>10.643            | 32.58                      | PK  | 37.7              | -23.2                        | 0               | 47.08                                | -                        | -              | 74                        | -26.92               | -                                          | -                    | 0-360             | 202            | V        |
| 6      | * 7.492                | 28.44                      | PK  | 35.6              | -25.7                        | 0               | 38.34                                | -                        | -              | 74                        | -35.66               | -                                          | -                    | 0-360             | 202            | V        |

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

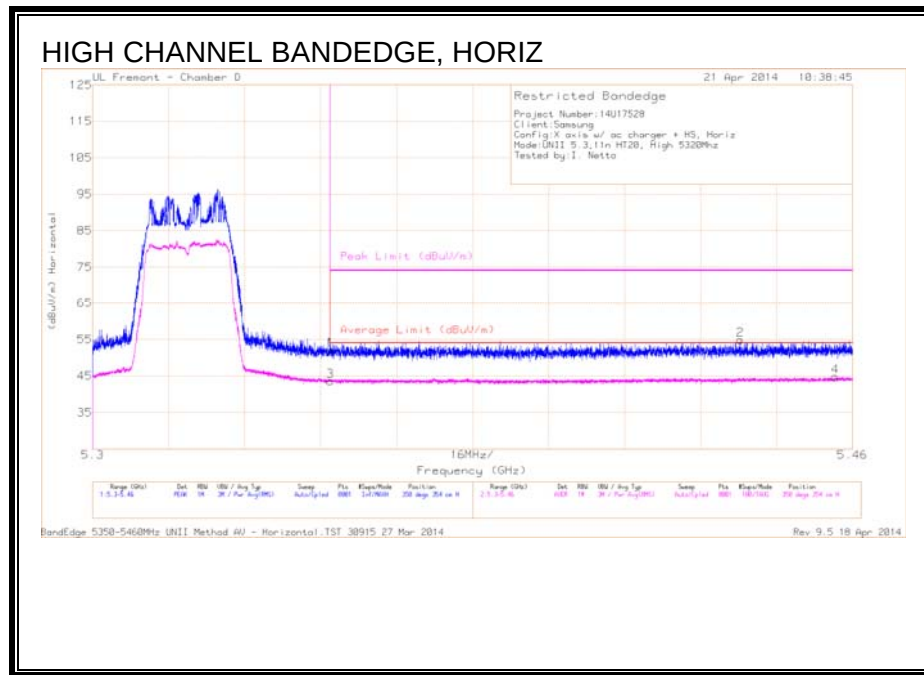
PK - Peak detector

Radiated Emissions

| Frequenc<br>y<br>(GHz) | Meter<br>Reading<br>(dBuV) | Det | AF T345<br>(dB/m) | Ampl/Cbl/<br>Ftr/Pad<br>(dB) | DC Corr<br>(dB) | Correcte<br>d<br>Reading<br>(dBuV/m) | Avg Limit<br>(dBuV/m) | Margin<br>(dB) | Peak Limit<br>(dBuV/m) | PK<br>Margin<br>(dB) | UNII Non-<br>Restricted<br>(dBuV/m) | PK<br>Margin<br>(dB) | Azimuth<br>(Degs) | Height<br>(cm) | Polarity |
|------------------------|----------------------------|-----|-------------------|------------------------------|-----------------|--------------------------------------|-----------------------|----------------|------------------------|----------------------|-------------------------------------|----------------------|-------------------|----------------|----------|
| * 3.547                | 42.22                      | PK1 | 33                | -31.8                        | 0               | 43.42                                | -                     | -              | 74                     | -30.58               | -                                   | -                    | 224               | 256            | H        |
| * 3.547                | 33.18                      | AD1 | 33                | -31.8                        | .3              | 34.68                                | 54                    | -19.32         | -                      | -                    | -                                   | -                    | 224               | 256            | H        |
| * 3.83                 | 40.44                      | PK1 | 33.7              | -31                          | 0               | 43.14                                | -                     | -              | 74                     | -30.86               | -                                   | -                    | 224               | 256            | H        |
| * 3.547                | 40.98                      | PK1 | 33                | -31.8                        | 0               | 42.18                                | -                     | -              | 74                     | -31.82               | -                                   | -                    | 224               | 256            | V        |
| * 10.647               | 38.21                      | PK1 | 37.7              | -23.2                        | 0               | 52.71                                | -                     | -              | 74                     | -21.29               | -                                   | -                    | 224               | 256            | H        |
| * 10.643               | 42.8                       | PK1 | 37.7              | -23.2                        | 0               | 57.3                                 | -                     | -              | 74                     | -16.7                | -                                   | -                    | 224               | 256            | V        |
| * 10.643               | 31.39                      | AD1 | 37.7              | -23.2                        | .3              | 46.19                                | 54                    | -7.81          | -                      | -                    | -                                   | -                    | 224               | 256            | V        |
| * 7.49                 | 36.78                      | PK1 | 35.6              | -25.7                        | 0               | 46.68                                | -                     | -              | 74                     | -27.32               | -                                   | -                    | 224               | 256            | V        |

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

### 10.2.3. TX ABOVE 1 GHz 802.11n HT20 MODE IN THE 5.3 GHz BAND AUTHORIZED BANDEDGE (HIGH CHANNEL)

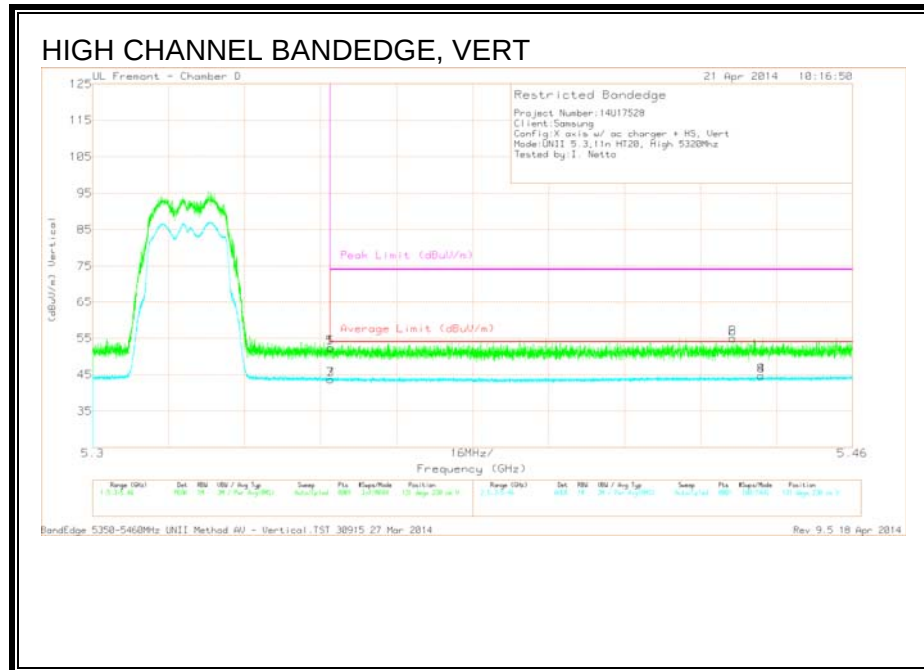


| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T712 (dB/m) | Amp/Cbl/FI tr/Pad (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|------------------------|--------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 5.35          | 36.39                | PK  | 33.8           | -18.1                  | 0            | 52.09                      | -                      | -           | 74                  | -21.91         | 350            | 354         | H        |
| 2      | * 5.436         | 39.01                | PK  | 33.9           | -18                    | 0            | 54.91                      | -                      | -           | 74                  | -19.09         | 350            | 354         | H        |
| 3      | * 5.35          | 27.62                | RMS | 33.8           | -18.1                  | .6           | 43.62                      | 54                     | -10.38      | -                   | -              | 350            | 354         | H        |
| 4      | * 5.456         | 28.47                | RMS | 33.9           | -17.9                  | .6           | 44.77                      | 54                     | -9.23       | -                   | -              | 350            | 354         | H        |

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

RMS - RMS detection



| Marker | Frequenc<br>y (GHz) | Meter<br>Reading<br>(dBuV) | Det | AF T712<br>(dB/m) | Amp/Cbl/FI<br>tr/Pad (dB) | DC Corr<br>(dB) | Correcte<br>d Reading<br>(dBuV/m) | Average<br>Limit<br>(dBuV/m) | Margin<br>(dB) | Peak Limit<br>(dBuV/m) | PK<br>Margin<br>(dB) | Azimuth<br>(Degs) | Height<br>(cm) | Polarity |
|--------|---------------------|----------------------------|-----|-------------------|---------------------------|-----------------|-----------------------------------|------------------------------|----------------|------------------------|----------------------|-------------------|----------------|----------|
| 1      | * 5.35              | 36.73                      | PK  | 33.8              | -18.1                     | 0               | 52.43                             | -                            | -              | 74                     | -21.57               | 131               | 230            | V        |
| 2      | * 5.435             | 39.17                      | PK  | 33.9              | -18                       | 0               | 55.07                             | -                            | -              | 74                     | -18.93               | 131               | 230            | V        |
| 5      | * 5.35              | 36.73                      | PK  | 33.8              | -18.1                     | 0               | 52.43                             | -                            | -              | 74                     | -21.57               | 131               | 230            | V        |
| 6      | * 5.435             | 39.17                      | PK  | 33.9              | -18                       | 0               | 55.07                             | -                            | -              | 74                     | -18.93               | 131               | 230            | V        |
| 3      | * 5.35              | 27.68                      | RMS | 33.8              | -18.1                     | .6              | 43.68                             | 54                           | -10.32         | -                      | -                    | 131               | 230            | V        |
| 4      | * 5.441             | 28.52                      | RMS | 33.9              | -18                       | .6              | 44.72                             | 54                           | -9.28          | -                      | -                    | 131               | 230            | V        |
| 7      | * 5.35              | 27.71                      | RMS | 33.8              | -18.1                     | .6              | 43.71                             | 54                           | -10.29         | -                      | -                    | 131               | 230            | V        |
| 8      | * 5.441             | 28.55                      | RMS | 33.9              | -18                       | .6              | 44.75                             | 54                           | -9.25          | -                      | -                    | 131               | 230            | V        |

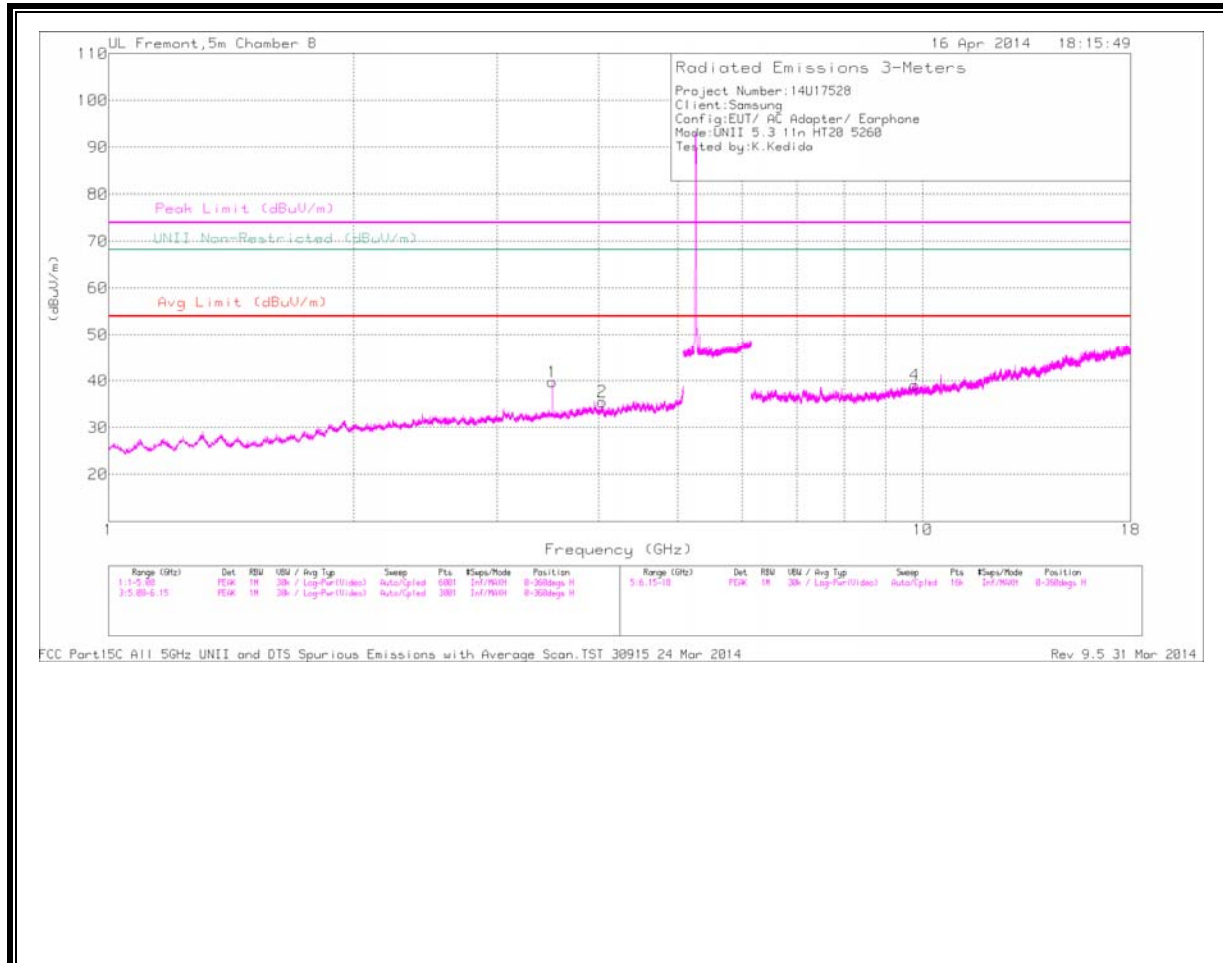
\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

RMS - RMS detection

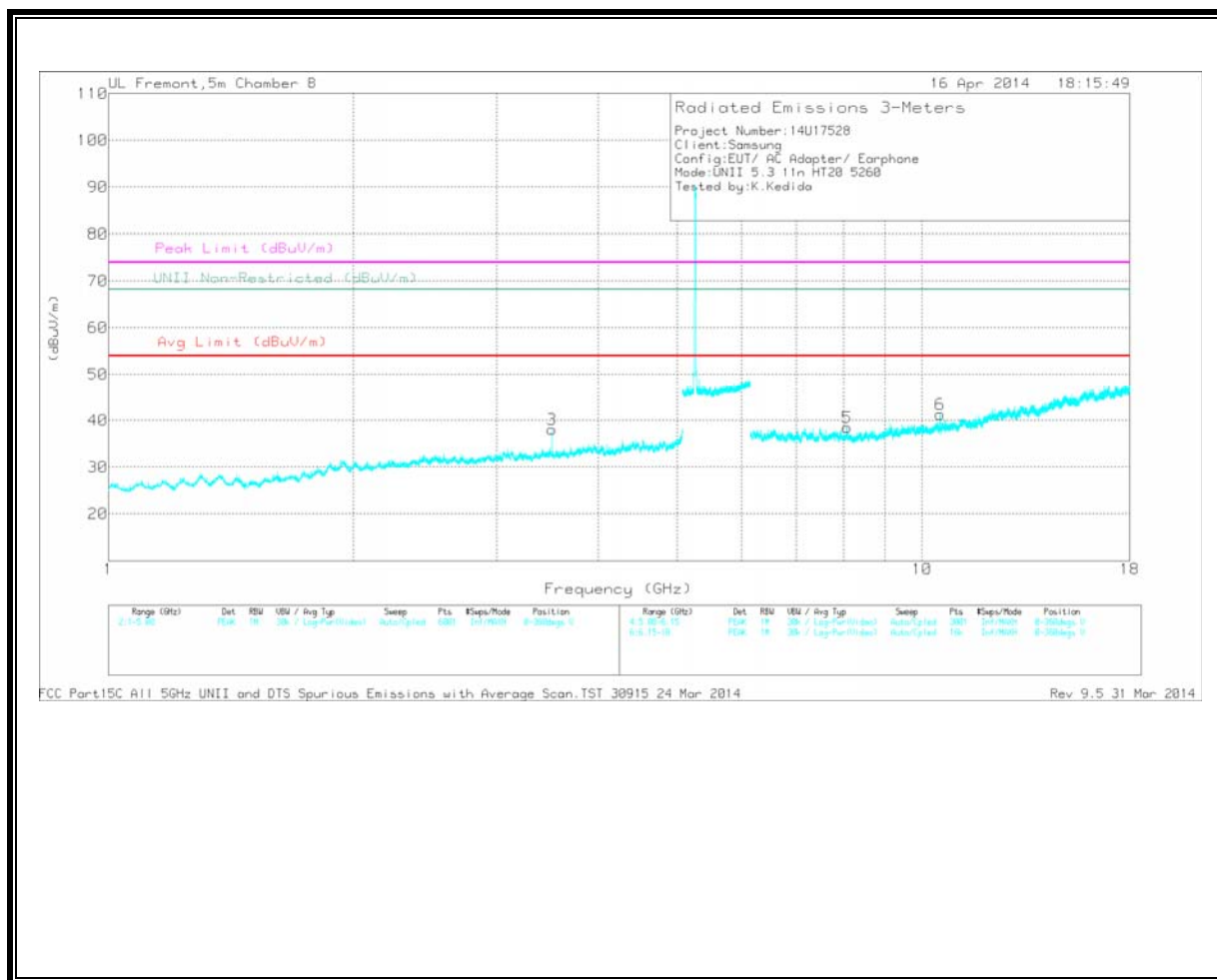
## HARMONICS AND SPURIOUS EMISSIONS

### LOW CHANNEL HORIZONTAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

# VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

## LOW CHANNEL DATA

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T345 (dB/m) | Amp/Cbl/Fit r/Pad (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | UNII Non-Restricted (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|------------------------|----------------------------|--------------------|-------------|---------------------|----------------|------------------------------|----------------|----------------|-------------|----------|
| 1      | * 3.507         | 38.79                | PK  | 32.8           | -31.8                  | 39.79                      | -                  | -           | 74                  | -34.21         | -                            | -              | 0-360          | 99          | H        |
| 2      | * 4.042         | 31.77                | PK  | 33.6           | -29.8                  | 35.57                      | -                  | -           | 74                  | -38.43         | -                            | -              | 0-360          | 202         | H        |
| 3      | * 3.506         | 37.06                | PK  | 32.8           | -31.8                  | 38.06                      | -                  | -           | 74                  | -35.94         | -                            | -              | 0-360          | 202         | V        |
| 5      | * 8.083         | 29.35                | PK  | 35.7           | -26.5                  | 38.55                      | -                  | -           | 74                  | -35.45         | -                            | -              | 0-360          | 99          | V        |
| 4      | 9.78            | 25.62                | PK  | 36.9           | -23.4                  | 39.12                      | -                  | -           | -                   | -              | 68.2                         | -29.08         | 0-360          | 202         | H        |
| 6      | 10.519          | 27.69                | PK  | 37.5           | -23.9                  | 41.29                      | -                  | -           | -                   | -              | 68.2                         | -26.91         | 0-360          | 99          | V        |

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

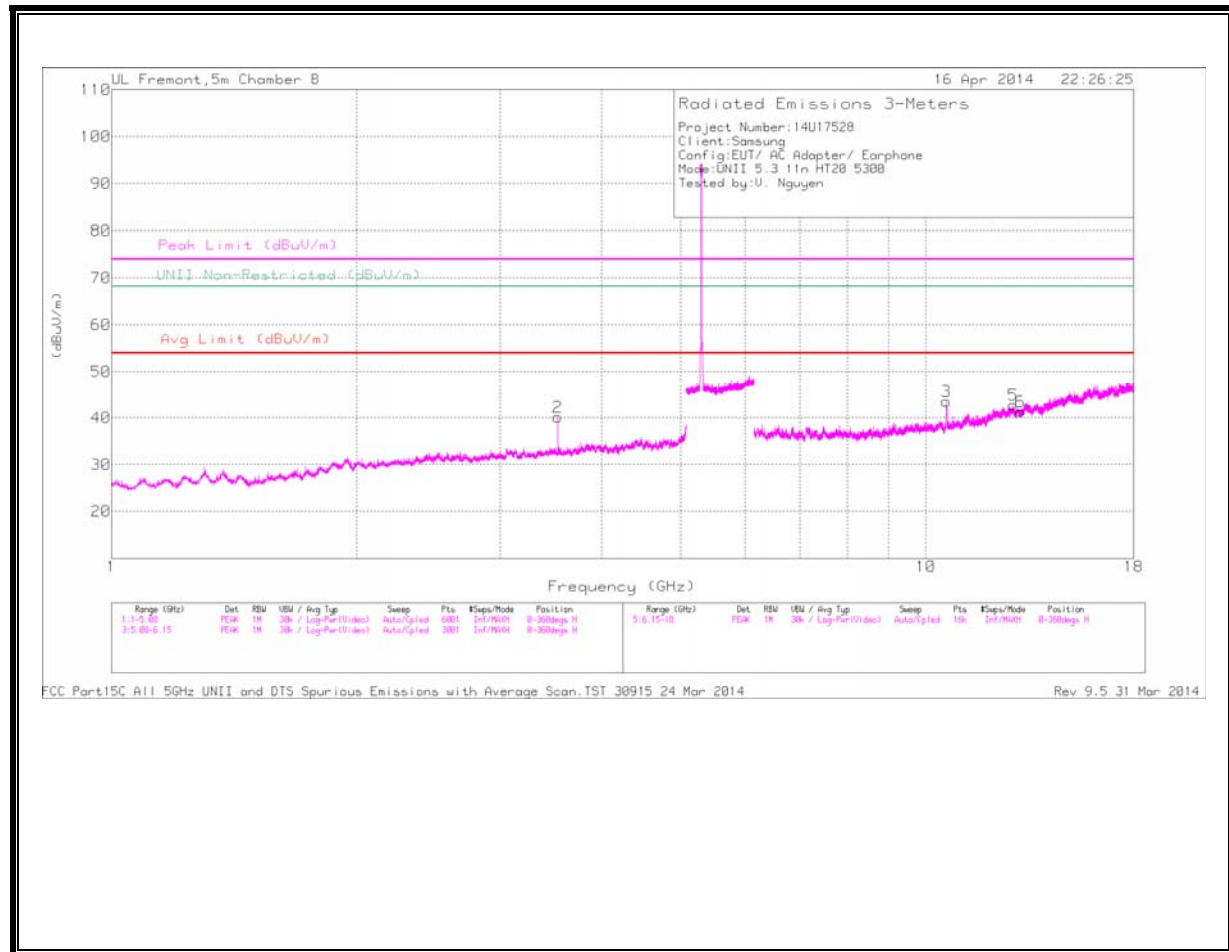
PK - Peak detector

### Radiated Emissions

| Frequency (GHz) | Meter Reading (dBuV) | Det | AF T345 (dB/m) | Amp/Cbl/Fit r/Pad (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | UNII Non-Restricted (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|-----|----------------|------------------------|----------------------------|--------------------|-------------|---------------------|----------------|------------------------------|----------------|----------------|-------------|----------|
| * 3.507         | 45.47                | PK1 | 32.8           | -31.8                  | 46.47                      | -                  | -           | 74                  | -27.53         | -                            | -              | 197            | 249         | H        |
| * 3.507         | 40.87                | AD1 | 32.8           | -31.8                  | 41.87                      | 54                 | -12.13      | -                   | -              | -                            | -              | 197            | 249         | H        |
| * 4.04          | 40.53                | PK1 | 33.6           | -29.8                  | 44.33                      | -                  | -           | 74                  | -29.67         | -                            | -              | 197            | 249         | H        |
| * 3.507         | 44                   | PK1 | 32.8           | -31.8                  | 45                         | -                  | -           | 74                  | -29            | -                            | -              | 329            | 334         | V        |
| * 3.507         | 38.96                | AD1 | 32.8           | -31.8                  | 39.96                      | 54                 | -14.04      | -                   | -              | -                            | -              | 329            | 334         | V        |
| * 8.083         | 36.85                | PK1 | 35.7           | -26.5                  | 46.05                      | -                  | -           | 74                  | -27.95         | -                            | -              | 329            | 334         | V        |
| 9.78            | 34.81                | PK1 | 36.9           | -23.4                  | 48.31                      | -                  | -           | -                   | -              | 68.2                         | -19.89         | 329            | 334         | H        |
| 10.516          | 37.39                | PK1 | 37.5           | -23.9                  | 50.99                      | -                  | -           | -                   | -              | 68.2                         | -17.21         | 3              | 320         | V        |
| 10.516          | 25.24                | AD1 | 37.5           | -23.9                  | 38.84                      | -                  | -           | -                   | -              | -                            | -              | 3              | 320         | V        |

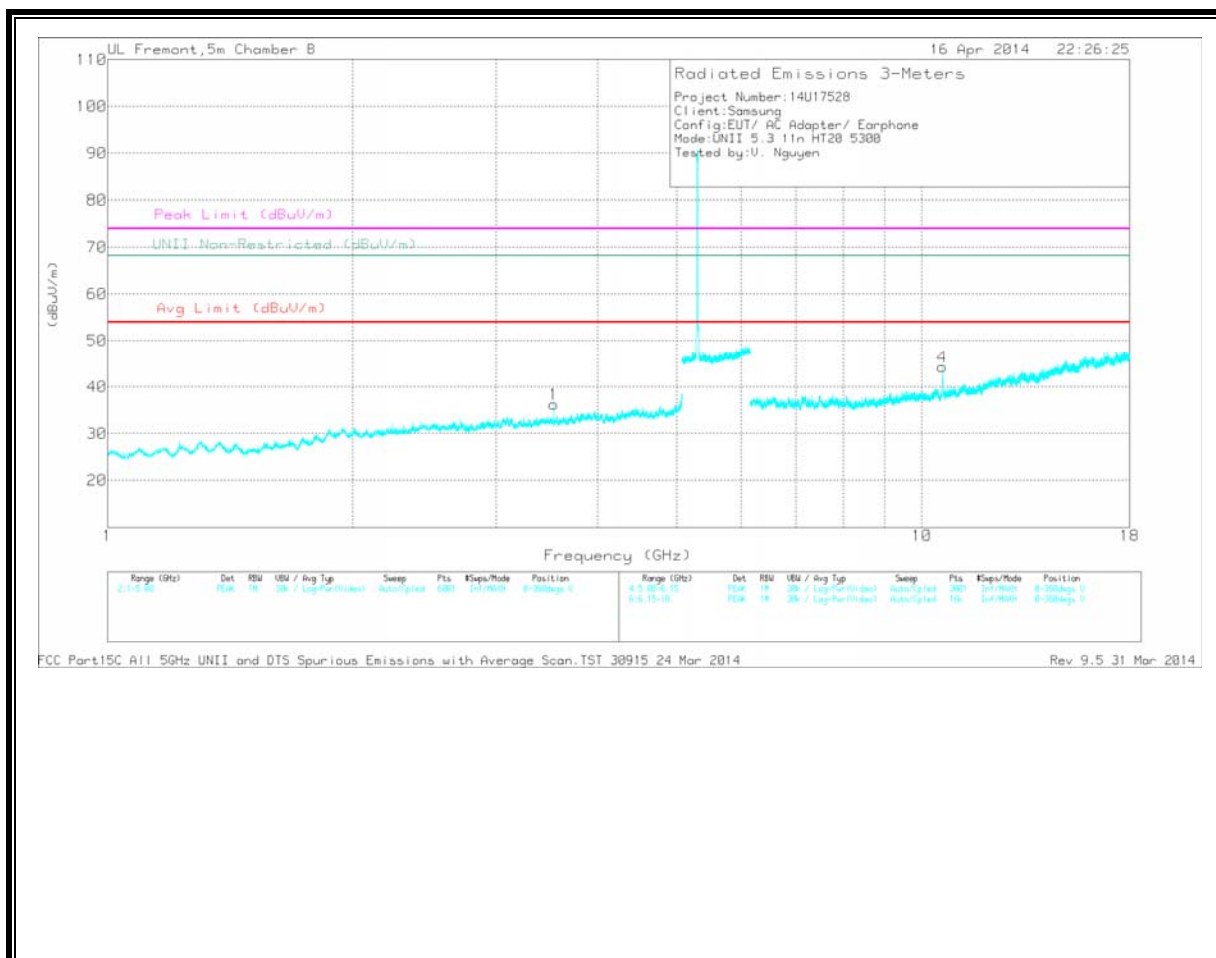
\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

MID CHANNEL  
HORIZONTAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

# MID CHANNEL DATA

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T345 (dB/m) | Amp/Cbl/Fit r/Pad (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | UNII Non-Restricted (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|------------------------|----------------------------|--------------------|-------------|---------------------|----------------|------------------------------|----------------|----------------|-------------|----------|
| 2      | * 3.534         | 39.27                | PK  | 32.9           | -32                    | 40.17                      | -                  | -           | 74                  | -33.83         | -                            | -              | 0-360          | 99          | H        |
| 1      | * 3.534         | 35.42                | PK  | 32.9           | -32                    | 36.32                      | -                  | -           | 74                  | -37.68         | -                            | -              | 0-360          | 202         | V        |
| 4      | * 10.601        | 29.8                 | PK  | 37.7           | -23.2                  | 44.3                       | -                  | -           | 74                  | -29.7          | -                            | -              | 0-360          | 202         | V        |
| 3      | 10.599          | 29.06                | PK  | 37.7           | -23.2                  | 43.56                      | -                  | -           | -                   | -              | 68.2                         | -24.64         | 0-360          | 201         | H        |
| 5      | 12.811          | 25.42                | PK  | 39.2           | -21.9                  | 42.72                      | -                  | -           | -                   | -              | 68.2                         | -25.48         | 0-360          | 99          | H        |
| 6      | 13.074          | 24.98                | PK  | 39.1           | -22.7                  | 41.38                      | -                  | -           | -                   | -              | 68.2                         | -26.82         | 0-360          | 201         | H        |

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

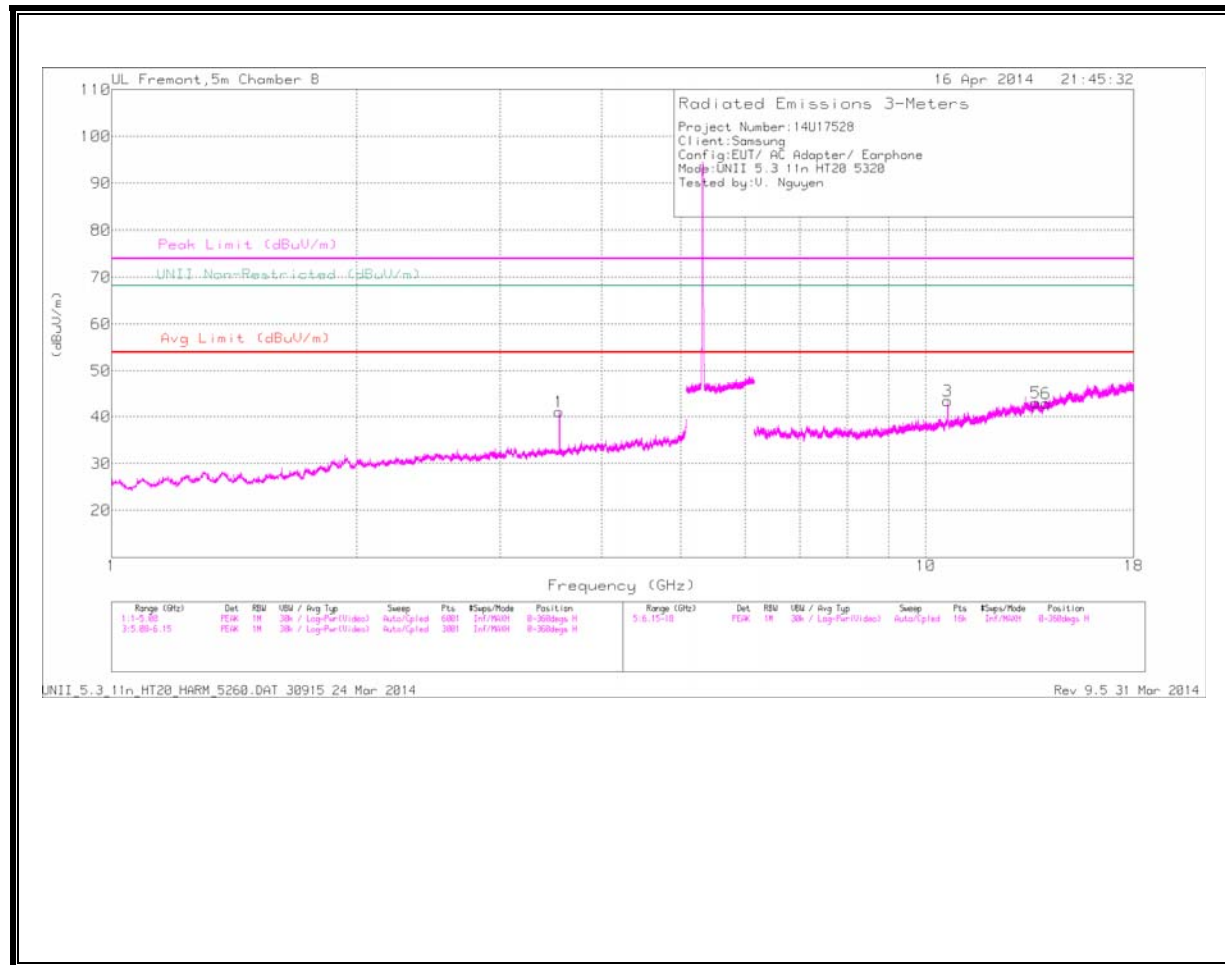
PK - Peak detector

Radiated Emissions

| Frequency (GHz) | Meter Reading (dBuV) | Det | AF T345 (dB/m) | Amp/Cbl/Fit r/Pad (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | UNII Non-Restricted (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|-----|----------------|------------------------|----------------------------|--------------------|-------------|---------------------|----------------|------------------------------|----------------|----------------|-------------|----------|
| * 3.533         | 44.59                | PK1 | 32.9           | -32                    | 45.49                      | -                  | -           | 74                  | -28.51         | -                            | -              | 297            | 246         | H        |
| * 3.533         | 39.92                | AD1 | 32.9           | -32                    | 40.82                      | 54                 | -13.18      | -                   | -              | -                            | -              | 297            | 246         | H        |

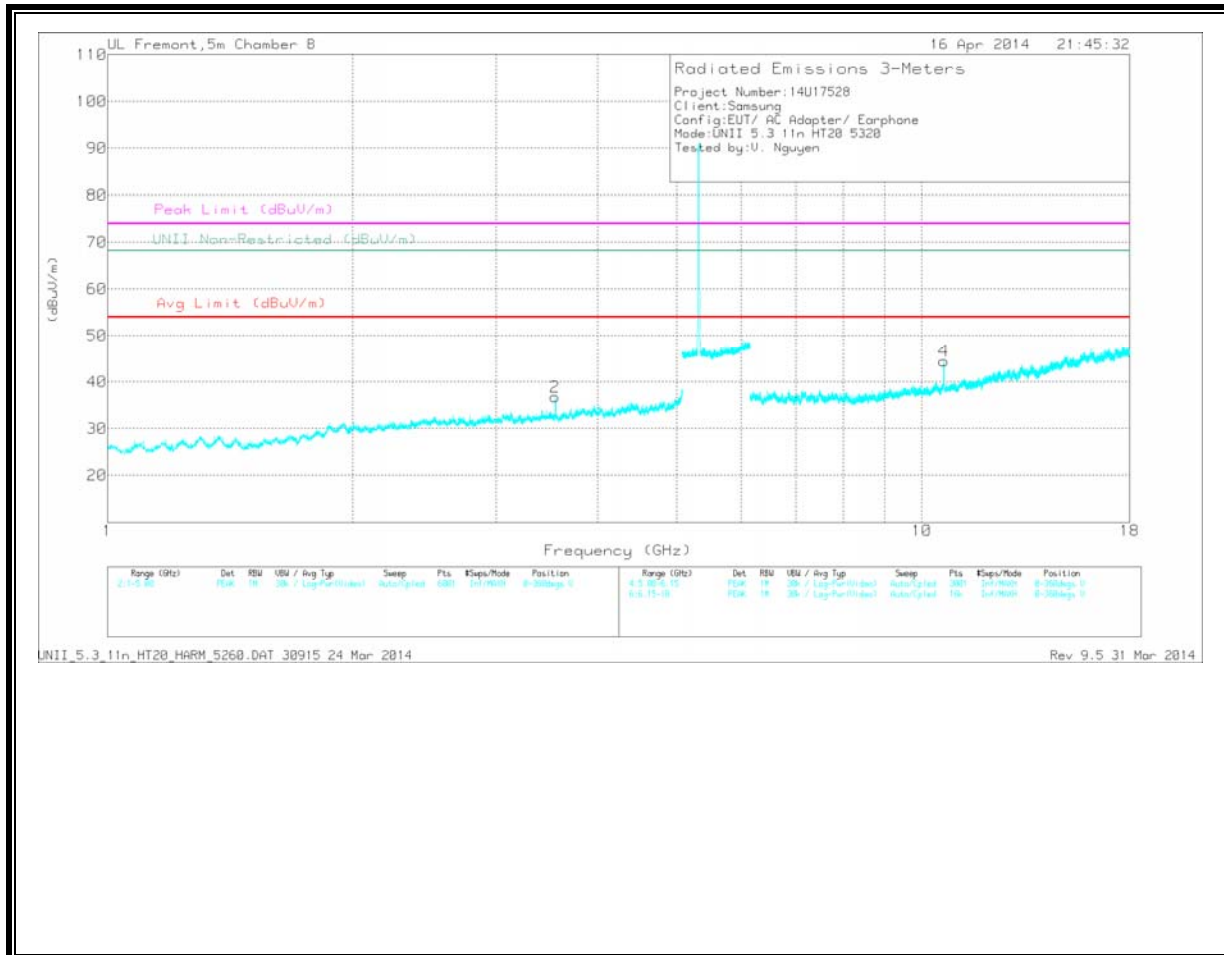
\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

HIGH CHANNEL  
HORIZONTAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

# HIGH CHANNEL DATA

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T345 (dB/m) | Amp/Cbl/Fit r/Pad (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | UNII Non-Restricted (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|------------------------|----------------------------|--------------------|-------------|---------------------|----------------|------------------------------|----------------|----------------|-------------|----------|
| 1      | * 3.547         | 39.92                | PK  | 33             | -31.8                  | 41.12                      | -                  | -           | 74                  | -32.88         | -                            | -              | 0-360          | 202         | H        |
| 2      | * 3.547         | 35.57                | PK  | 33             | -31.8                  | 36.77                      | -                  | -           | 74                  | -37.23         | -                            | -              | 0-360          | 202         | V        |
| 3      | * 10.641        | 28.91                | PK  | 37.7           | -23.2                  | 43.41                      | -                  | -           | 74                  | -30.59         | -                            | -              | 0-360          | 202         | H        |
| 4      | * 10.642        | 30.03                | PK  | 37.7           | -23.2                  | 44.53                      | -                  | -           | 74                  | -29.47         | -                            | -              | 0-360          | 202         | V        |
| 5      | 13.642          | 26.38                | PK  | 38.7           | -22                    | 43.08                      | -                  | -           | -                   | -              | 68.2                         | -25.12         | 0-360          | 99          | H        |
| 6      | 14.052          | 26.05                | PK  | 38.6           | -21.8                  | 42.85                      | -                  | -           | -                   | -              | 68.2                         | -25.35         | 0-360          | 99          | H        |

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

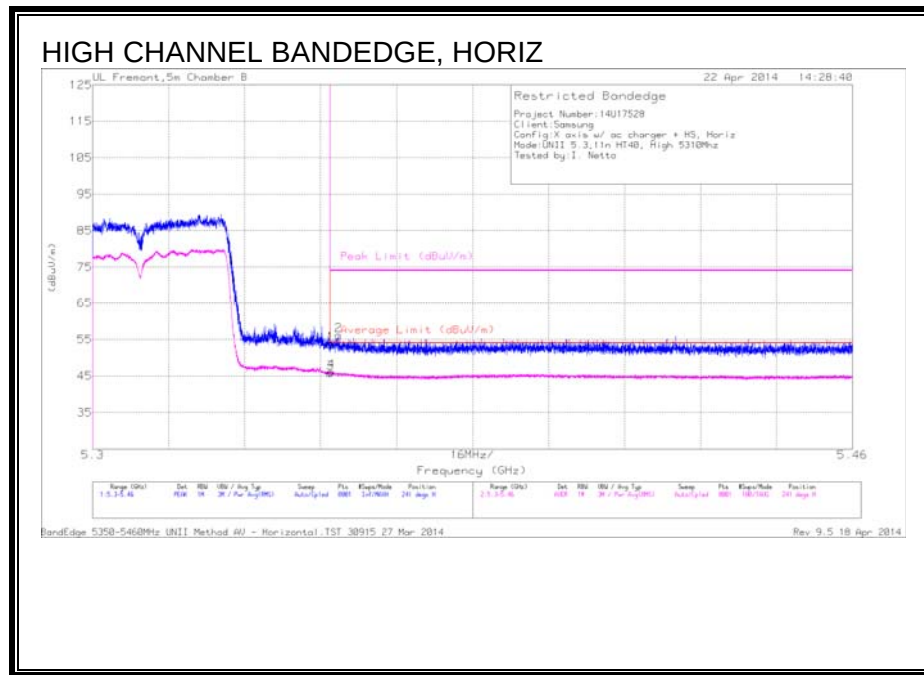
PK - Peak detector

Radiated Emissions

| Frequency (GHz) | Meter Reading (dBuV) | Det | AF T345 (dB/m) | Amp/Cbl/Fit r/Pad (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | UNII Non-Restricted (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|-----|----------------|------------------------|----------------------------|--------------------|-------------|---------------------|----------------|------------------------------|----------------|----------------|-------------|----------|
| * 3.547         | 46.33                | PK1 | 33             | -31.8                  | 47.53                      | -                  | -           | 74                  | -26.47         | -                            | -              | 301            | 244         | H        |
| * 3.547         | 41.38                | AD1 | 33             | -31.8                  | 42.58                      | 54                 | -11.42      | -                   | -              | -                            | -              | 301            | 244         | H        |

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

## 10.2.5. TX ABOVE 1 GHz 802.11n HT40 MODE IN THE 5.3 GHz BAND AUTHORIZED BANDEDGE (HIGH CHANNEL)

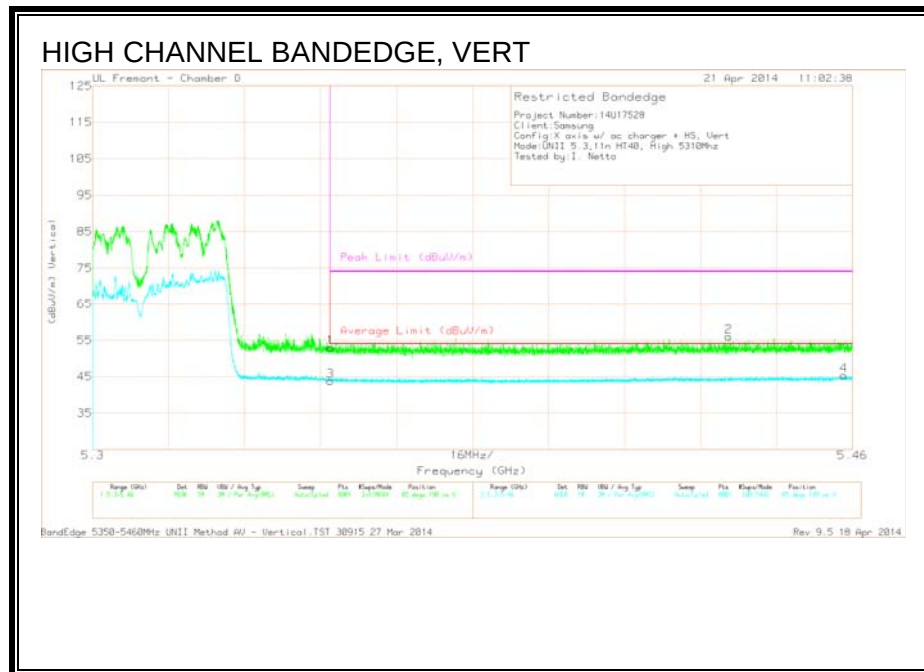


| Marker | Frequenc<br>y (GHz) | Meter<br>Reading (dBuV) | Det | AF T345<br>(dB/m) | Amp/Cbl/FI<br>tr/Pad (dB) | DC Corr<br>(dB) | Correcte<br>d Reading<br>(dBuV/m) | Average<br>Limit<br>(dBuV/m) | Margin<br>(dB) | Peak Limit<br>(dBuV/m) | PK<br>Margin<br>(dB) | Azimuth<br>(Degs) | Height<br>(cm) | Polarity |
|--------|---------------------|-------------------------|-----|-------------------|---------------------------|-----------------|-----------------------------------|------------------------------|----------------|------------------------|----------------------|-------------------|----------------|----------|
| 1      | * 5.35              | 39.18                   | PK  | 34.5              | -19.9                     | 0               | 53.78                             | -                            | -              | 74                     | -20.22               | 241               | 99             | H        |
| 2      | * 5.352             | 41.5                    | PK  | 34.5              | -19.9                     | 0               | 56.1                              | -                            | -              | 74                     | -17.9                | 241               | 99             | H        |
| 3      | * 5.35              | 30.5                    | RMS | 34.5              | -19.9                     | 1.1             | 45.8                              | 54                           | -8.2           | -                      | -                    | 241               | 99             | H        |
| 4      | * 5.35              | 30.91                   | RMS | 34.5              | -19.9                     | 1.1             | 46.21                             | 54                           | -7.79          | -                      | -                    | 241               | 99             | H        |

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

RMS - RMS detection



| Marker | Frequenc<br>y (GHz) | Meter<br>Reading<br>(dBuV) | Det | AF T712<br>(dB/m) | Amp/Cb/Fl<br>tr/Pad (dB) | DC Corr<br>(dB) | Correcte<br>d<br>Reading<br>(dBuV/m) | Average<br>Limit<br>(dBuV/m) | Margin<br>(dB) | Peak Limit<br>(dBuV/m) | PK<br>Margin<br>(dB) | Azimuth<br>(Degs) | Height<br>(cm) | Polarity |
|--------|---------------------|----------------------------|-----|-------------------|--------------------------|-----------------|--------------------------------------|------------------------------|----------------|------------------------|----------------------|-------------------|----------------|----------|
| 1      | * 5.35              | 37.31                      | PK  | 33.8              | -18.1                    | 0               | 53.01                                | -                            | -              | 74                     | -20.99               | 85                | 198            | V        |
| 2      | * 5.434             | 40.09                      | PK  | 33.9              | -18                      | 0               | 55.99                                | -                            | -              | 74                     | -18.01               | 85                | 198            | V        |
| 3      | * 5.35              | 27.45                      | RMS | 33.8              | -18.1                    | 1.1             | 43.85                                | 54                           | -10.15         | -                      | -                    | 85                | 198            | V        |
| 4      | * 5.458             | 28.49                      | RMS | 33.9              | -17.8                    | 1.1             | 45.29                                | 54                           | -8.71          | -                      | -                    | 85                | 198            | V        |

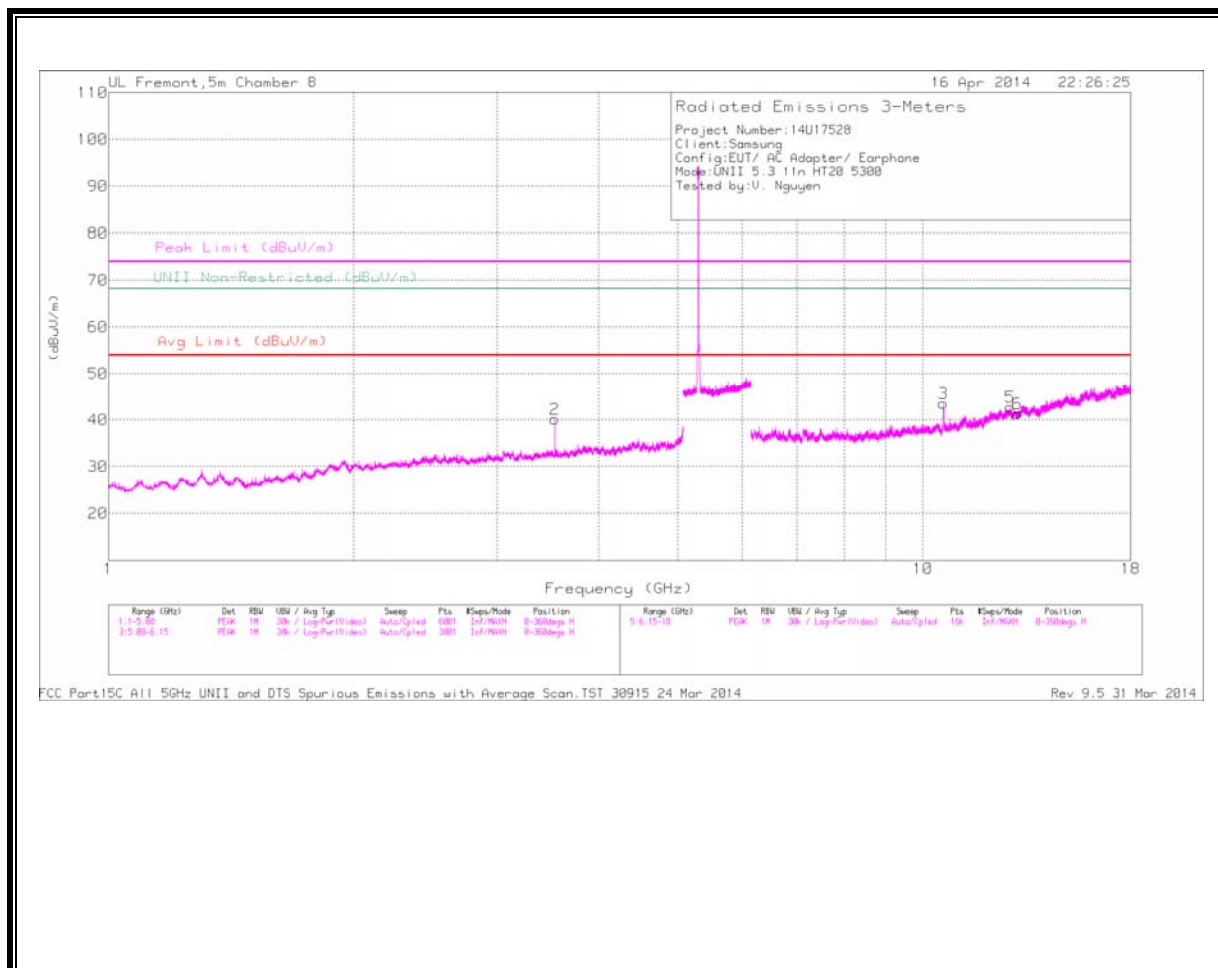
\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

RMS - RMS detection

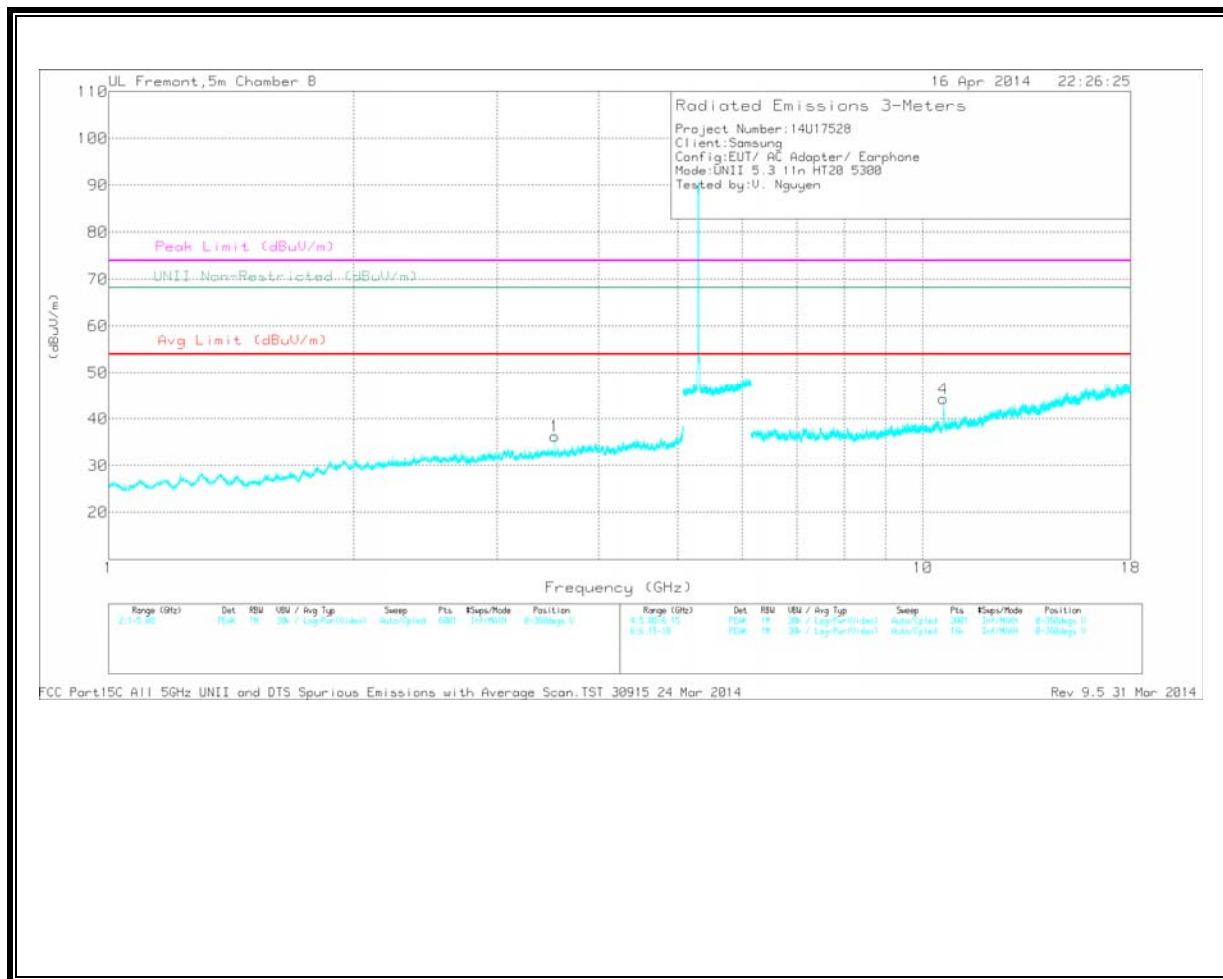
## HARMONICS AND SPURIOUS EMISSIONS

### LOW CHANNEL HORIZONTAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

# LOW CHANNEL DATA

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T345 (dB/m) | Amp/Cbl/Fit r/Pad (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | UNII Non-Restricted (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|------------------------|----------------------------|--------------------|-------------|---------------------|----------------|------------------------------|----------------|----------------|-------------|----------|
| 2      | * 3.534         | 39.27                | PK  | 32.9           | -32                    | 40.17                      | -                  | -           | 74                  | -33.83         | -                            | -              | 0-360          | 99          | H        |
| 1      | * 3.534         | 35.42                | PK  | 32.9           | -32                    | 36.32                      | -                  | -           | 74                  | -37.68         | -                            | -              | 0-360          | 202         | V        |
| 4      | * 10.601        | 29.8                 | PK  | 37.7           | -23.2                  | 44.3                       | -                  | -           | 74                  | -29.7          | -                            | -              | 0-360          | 202         | V        |
| 3      | 10.599          | 29.06                | PK  | 37.7           | -23.2                  | 43.56                      | -                  | -           | -                   | -              | 68.2                         | -24.64         | 0-360          | 201         | H        |
| 5      | 12.811          | 25.42                | PK  | 39.2           | -21.9                  | 42.72                      | -                  | -           | -                   | -              | 68.2                         | -25.48         | 0-360          | 99          | H        |
| 6      | 13.074          | 24.98                | PK  | 39.1           | -22.7                  | 41.38                      | -                  | -           | -                   | -              | 68.2                         | -26.82         | 0-360          | 201         | H        |

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

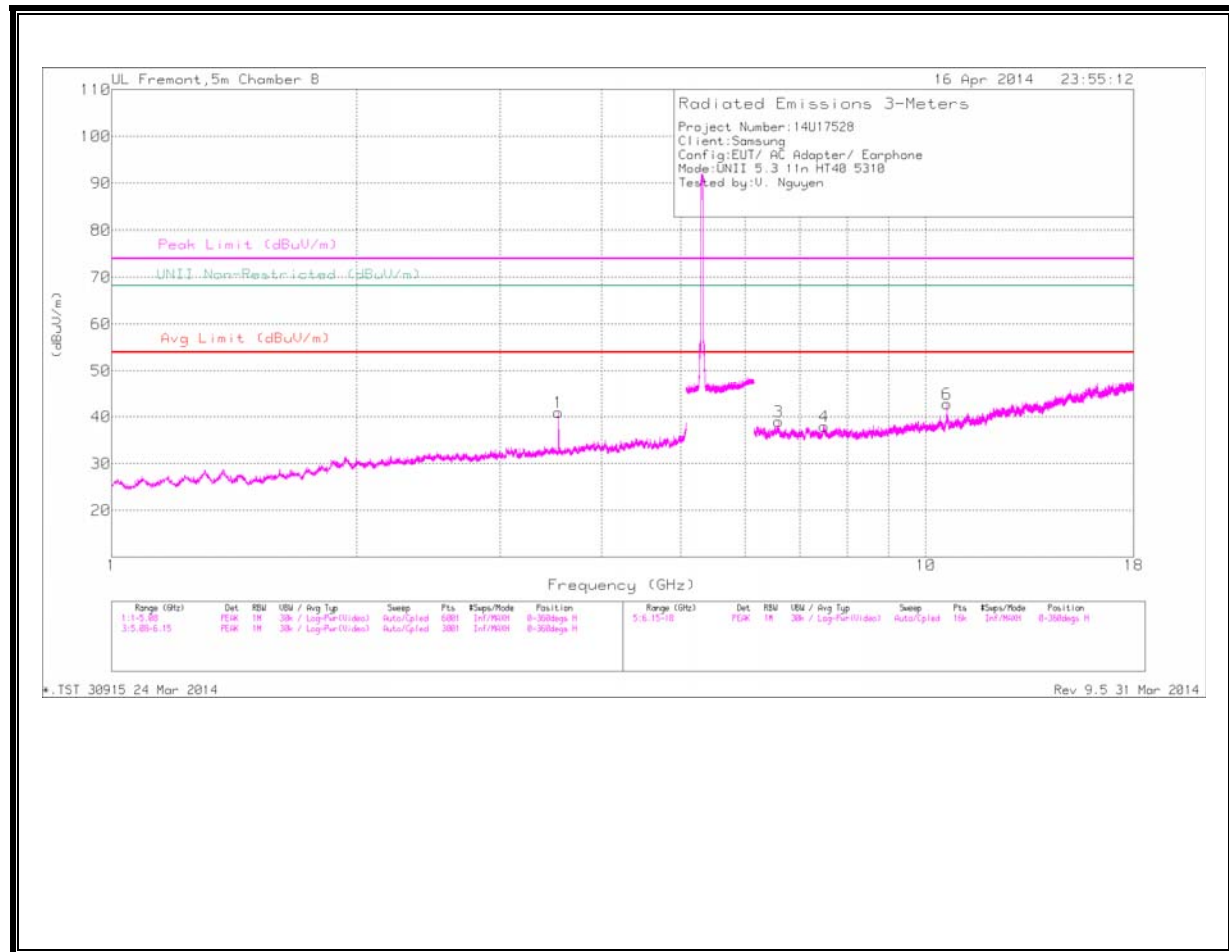
PK - Peak detector

Radiated Emissions

| Frequency (GHz) | Meter Reading (dBuV) | Det | AF T345 (dB/m) | Amp/Cbl/Fit r/Pad (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | UNII Non-Restricted (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|-----|----------------|------------------------|----------------------------|--------------------|-------------|---------------------|----------------|------------------------------|----------------|----------------|-------------|----------|
| * 3.533         | 44.59                | PK1 | 32.9           | -32                    | 45.49                      | -                  | -           | 74                  | -28.51         | -                            | -              | 297            | 246         | H        |
| * 3.533         | 39.92                | AD1 | 32.9           | -32                    | 40.82                      | 54                 | -13.18      | -                   | -              | -                            | -              | 297            | 246         | H        |

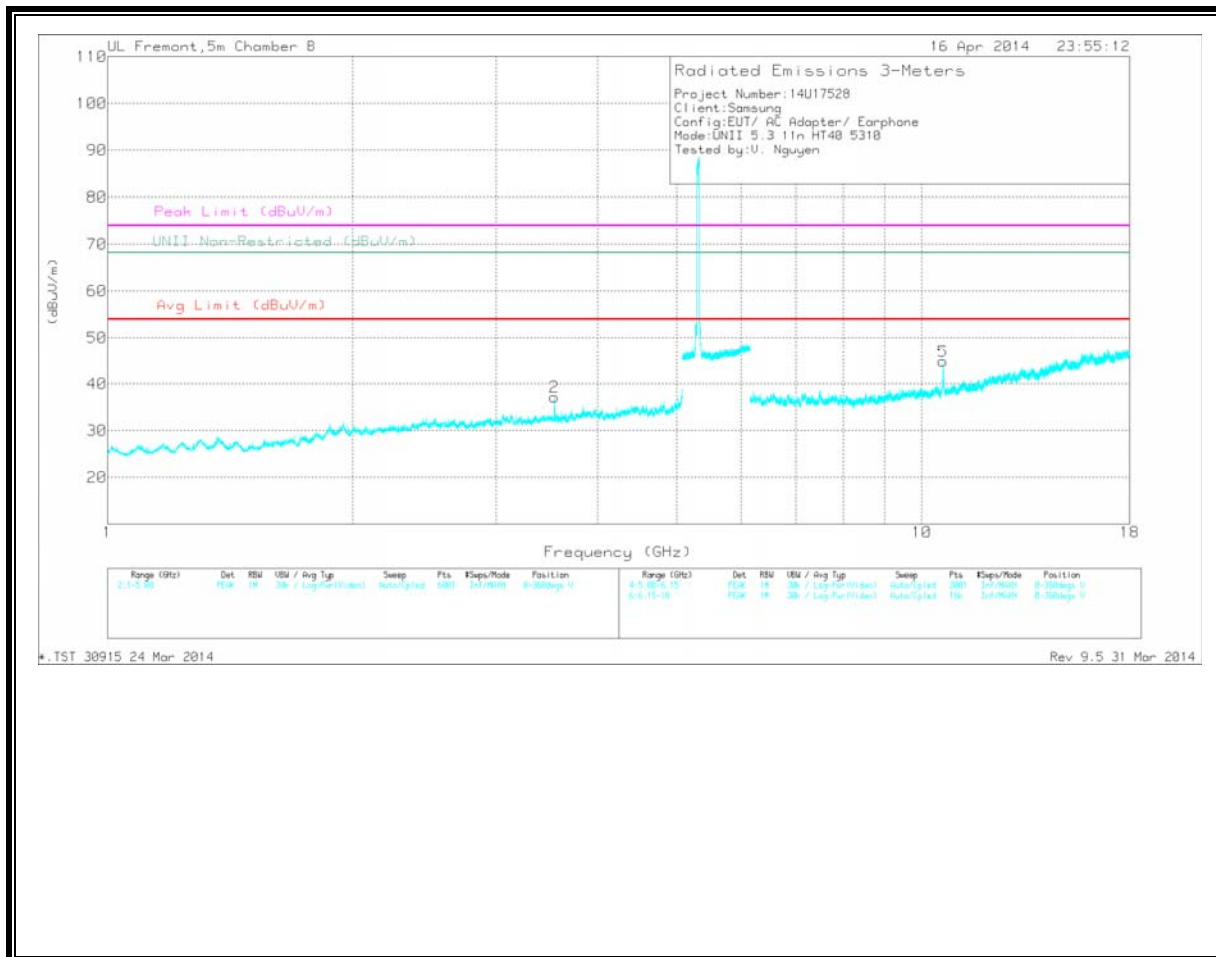
\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

MID CHANNEL  
HORIZONTAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

# MID CHANNEL DATA

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T345 (dB/m) | Amp/Cbl/Fit r/Pad (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | UNII Non-Restricted (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|------------------------|----------------------------|--------------------|-------------|---------------------|----------------|------------------------------|----------------|----------------|-------------|----------|
| 1      | * 3.54          | 40.04                | PK  | 32.9           | -32                    | 40.94                      | -                  | -           | 74                  | -33.06         | -                            | -              | 0-360          | 99          | H        |
| 2      | * 3.54          | 36.3                 | PK  | 32.9           | -32                    | 37.2                       | -                  | -           | 74                  | -36.8          | -                            | -              | 0-360          | 202         | V        |
| 4      | * 7.495         | 28.14                | PK  | 35.6           | -25.8                  | 37.94                      | -                  | -           | 74                  | -36.06         | -                            | -              | 0-360          | 202         | H        |
| 6      | * 10.621        | 28.12                | PK  | 37.7           | -23.1                  | 42.72                      | -                  | -           | 74                  | -31.28         | -                            | -              | 0-360          | 202         | H        |
| 5      | * 10.612        | 30.25                | PK  | 37.7           | -23.1                  | 44.85                      | -                  | -           | 74                  | -29.15         | -                            | -              | 0-360          | 202         | V        |
| 3      | 6.597           | 30.58                | PK  | 35.8           | -27.4                  | 38.98                      | -                  | -           | -                   | -              | 68.2                         | -29.22         | 0-360          | 99          | H        |

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

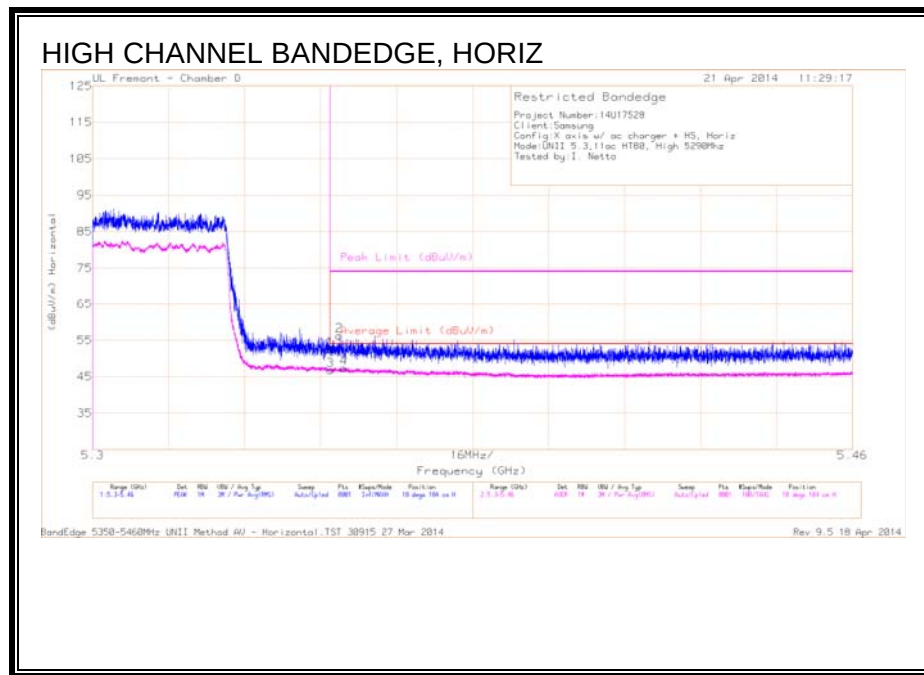
PK - Peak detector

## Radiated Emissions

| Frequency (GHz) | Meter Reading (dBuV) | Det | AF T345 (dB/m) | Amp/Cbl/Fit r/Pad (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | UNII Non-Restricted (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|-----|----------------|------------------------|----------------------------|--------------------|-------------|---------------------|----------------|------------------------------|----------------|----------------|-------------|----------|
| * 3.54          | 44.62                | PK1 | 32.9           | -32                    | 45.52                      | -                  | -           | 74                  | -28.48         | -                            | -              | 301            | 281         | H        |
| * 3.54          | 39.87                | AD1 | 32.9           | -32                    | 40.77                      | 54                 | -13.23      | -                   | -              | -                            | -              | 301            | 281         | H        |

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

## 10.2.7. TX ABOVE 1 GHz 802.11ac HT80 MODE IN THE 5.3 GHz BAND AUTHORIZED BANDEDGE (HIGH CHANNEL)

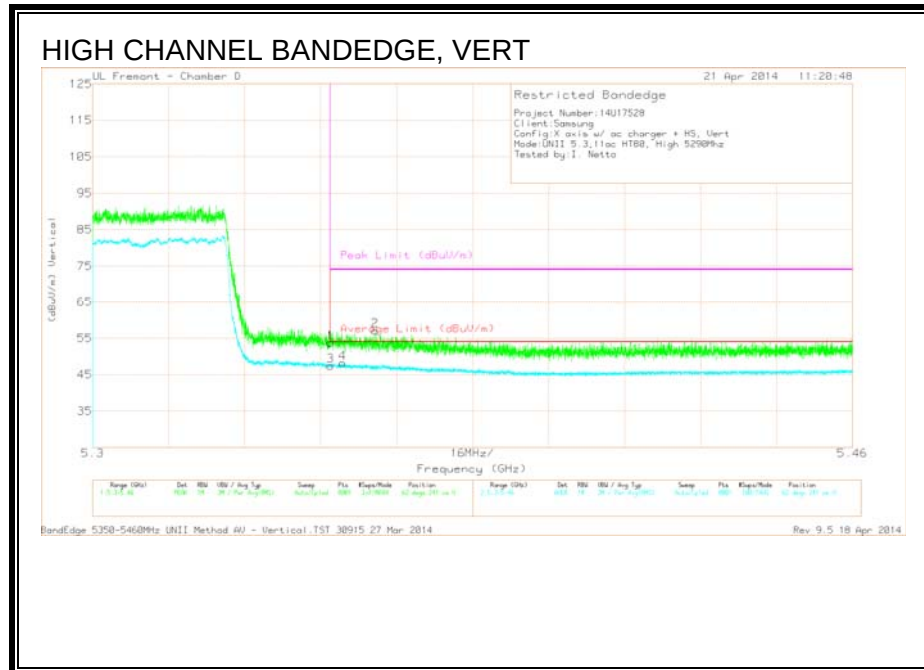


| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T712 (dBm) | Amp/Chl/FI tr/Pad (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|---------------|------------------------|--------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 5.35          | 36.78                | PK  | 33.8          | -18.1                  | 0            | 52.48                      | -                      | -           | 74                  | -21.52         | 18             | 104         | H        |
| 2      | * 5.352         | 40.61                | PK  | 33.8          | -18.1                  | 0            | 56.31                      | -                      | -           | 74                  | -17.69         | 18             | 104         | H        |
| 3      | * 5.35          | 29.27                | RMS | 33.8          | -18.1                  | 1.9          | 46.87                      | 54                     | -7.13       | -                   | -              | 18             | 104         | H        |
| 4      | * 5.353         | 29.77                | RMS | 33.8          | -18.1                  | 1.9          | 47.37                      | 54                     | -6.63       | -                   | -              | 18             | 104         | H        |

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

RMS - RMS detection



| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T712 (dB/m) | Amp/Cbl/Ftr/Pad (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|----------------------|--------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 5.35          | 38.12                | PK  | 33.8           | -18.1                | 0            | 53.82                      | -                      | -           | 74                  | -20.18         | 62             | 241         | V        |
| 2      | * 5.359         | 41.57                | PK  | 33.8           | -18.2                | 0            | 57.17                      | -                      | -           | 74                  | -16.83         | 62             | 241         | V        |
| 3      | * 5.35          | 29.85                | RMS | 33.8           | -18.1                | 1.9          | 47.45                      | 54                     | -6.55       | -                   | -              | 62             | 241         | V        |
| 4      | * 5.353         | 30.54                | RMS | 33.8           | -18.1                | 1.9          | 48.14                      | 54                     | -5.86       | -                   | -              | 62             | 241         | V        |

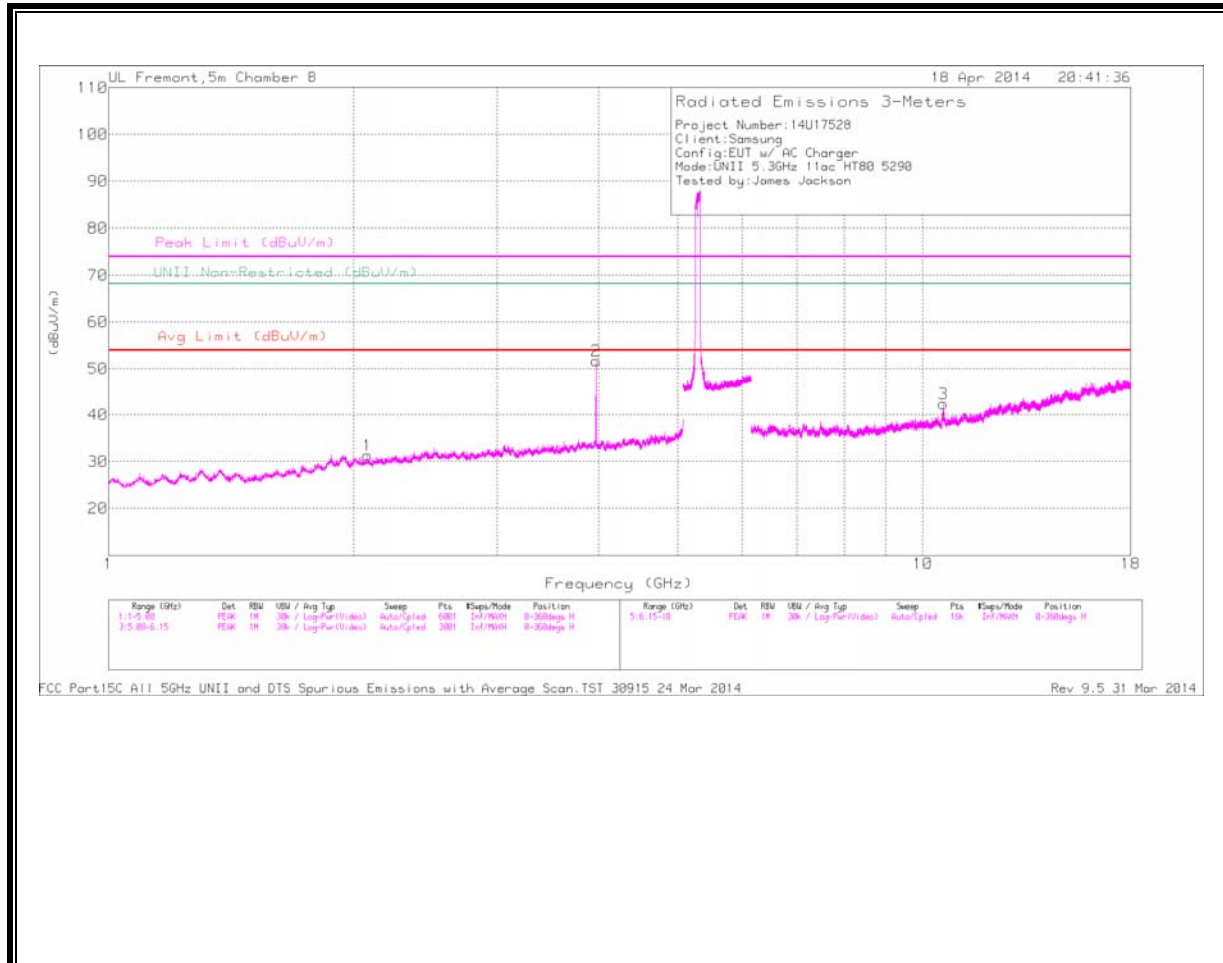
\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

RMS - RMS detection

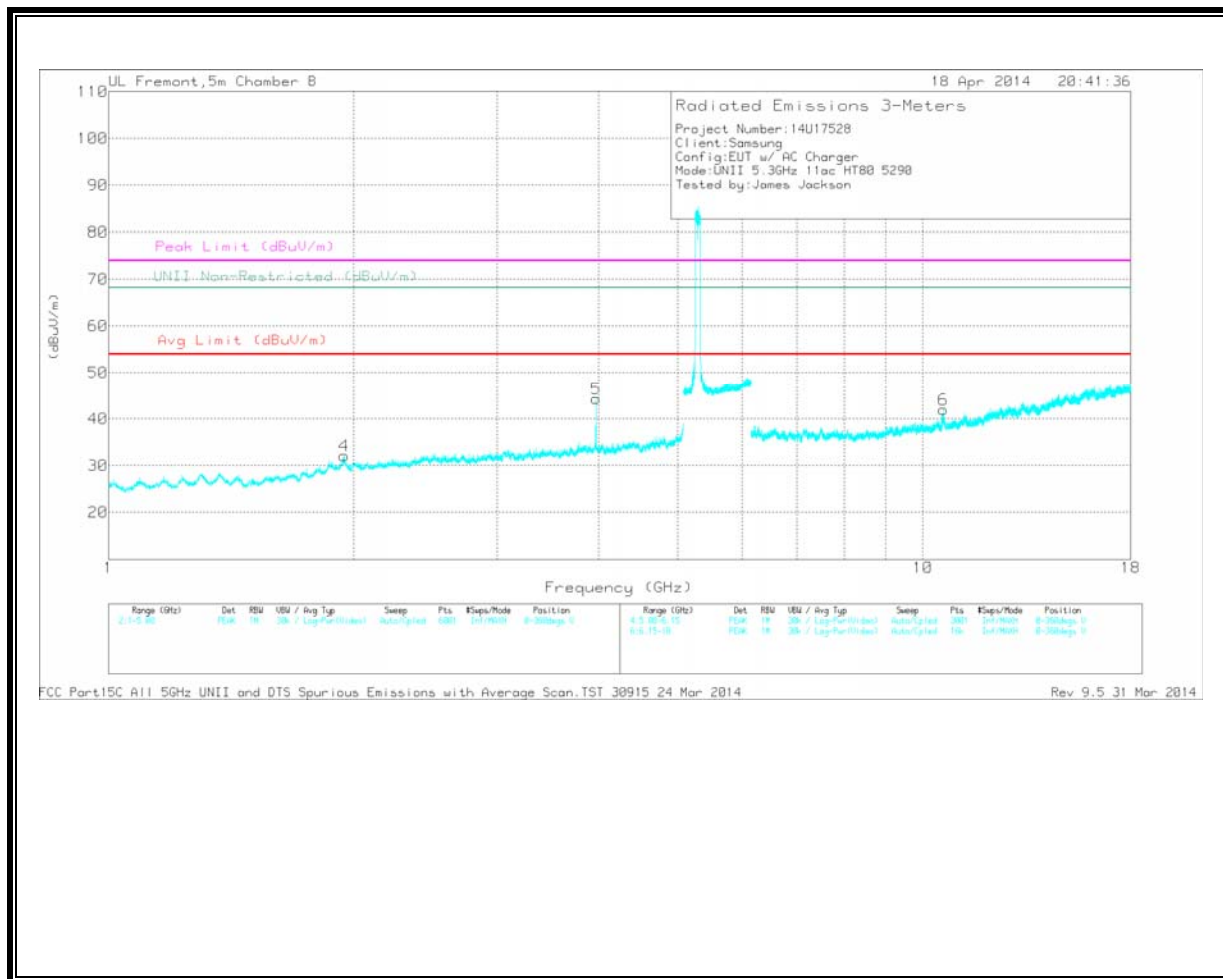
## HARMONICS AND SPURIOUS EMISSIONS

### LOW CHANNEL HORIZONTAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

## LOW CHANNEL DATA

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T345 (dB/m) | Amp/Cbl/Fit r/Pad (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | UNII Non-Restricted (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|------------------------|----------------------------|--------------------|-------------|---------------------|----------------|------------------------------|----------------|----------------|-------------|----------|
| 2      | * 3.968         | 48.16                | PK  | 33.7           | -30.1                  | 51.76                      | -                  | -           | 74                  | -22.24         | -                            | -              | 0-360          | 201         | H        |
| 5      | * 3.968         | 40.71                | PK  | 33.7           | -30.1                  | 44.31                      | -                  | -           | 74                  | -29.69         | -                            | -              | 0-360          | 202         | V        |
| 3      | * 10.601        | 27.84                | PK  | 37.7           | -23.2                  | 42.34                      | -                  | -           | 74                  | -31.66         | -                            | -              | 0-360          | 202         | H        |
| 4      | 1.947           | 33.48                | PK  | 31.2           | -32.5                  | 32.18                      | -                  | -           | -                   | -              | 68.2                         | -36.02         | 0-360          | 99          | V        |
| 1      | 2.079           | 33.63                | PK  | 31.3           | -33.6                  | 31.33                      | -                  | -           | -                   | -              | 68.2                         | -36.87         | 0-360          | 201         | H        |
| 6      | 10.594          | 27.54                | PK  | 37.6           | -23.2                  | 41.94                      | -                  | -           | -                   | -              | 68.2                         | -26.26         | 0-360          | 202         | V        |

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

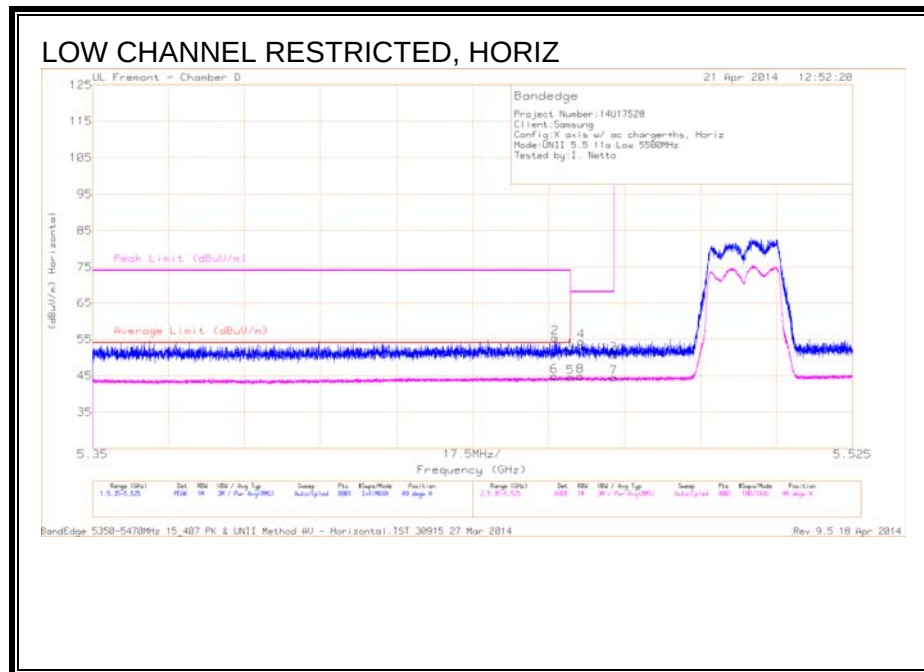
### Radiated Emissions

| Frequency (GHz) | Meter Reading (dBuV) | Det | AF T345 (dB/m) | Amp/Cbl/Fit r/Pad (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | UNII Non-Restricted (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|-----|----------------|------------------------|----------------------------|--------------------|-------------|---------------------|----------------|------------------------------|----------------|----------------|-------------|----------|
| * 3.967         | 50.17                | PK1 | 33.7           | -30.1                  | 53.77                      | -                  | -           | 74                  | -20.23         | -                            | -              | 297            | 258         | H        |
| * 3.967         | 46.62                | AD1 | 33.7           | -30.1                  | 50.22                      | 54                 | -3.78       | -                   | -              | -                            | -              | 297            | 258         | H        |
| * 3.967         | 48.63                | PK1 | 33.7           | -30.1                  | 52.23                      | -                  | -           | 74                  | -21.77         | -                            | -              | 53             | 271         | V        |
| * 3.967         | 44.11                | AD1 | 33.7           | -30.1                  | 47.71                      | 54                 | -6.29       | -                   | -              | -                            | -              | 53             | 271         | V        |
| 1.946           | 41.39                | PK1 | 31.2           | -32.5                  | 40.09                      | -                  | -           | -                   | -              | 68.2                         | -28.11         | 297            | 258         | V        |
| 2.079           | 41.84                | PK1 | 31.3           | -33.6                  | 39.54                      | -                  | -           | -                   | -              | 68.2                         | -28.66         | 2              | 100         | H        |
| 10.594          | 25.66                | AD1 | 37.6           | -23.2                  | 40.06                      | -                  | -           | -                   | -              | -                            | -              | 55             | 208         | V        |
| 10.596          | 36.7                 | PK1 | 37.6           | -23.2                  | 51.1                       | -                  | -           | -                   | -              | 68.2                         | -17.1          | 55             | 208         | V        |
| 10.597          | 37.84                | PK1 | 37.6           | -23.2                  | 52.24                      | -                  | -           | -                   | -              | 68.2                         | -15.96         | 1              | 268         | H        |
| 10.597          | 25.19                | AD1 | 37.6           | -23.2                  | 39.59                      | -                  | -           | -                   | -              | -                            | -              | 1              | 268         | H        |
| 10.597          | 22.61                | RMS | 37.6           | -23.2                  | 37.01                      | -                  | -           | -                   | -              | -                            | -              | 1              | 268         | H        |

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

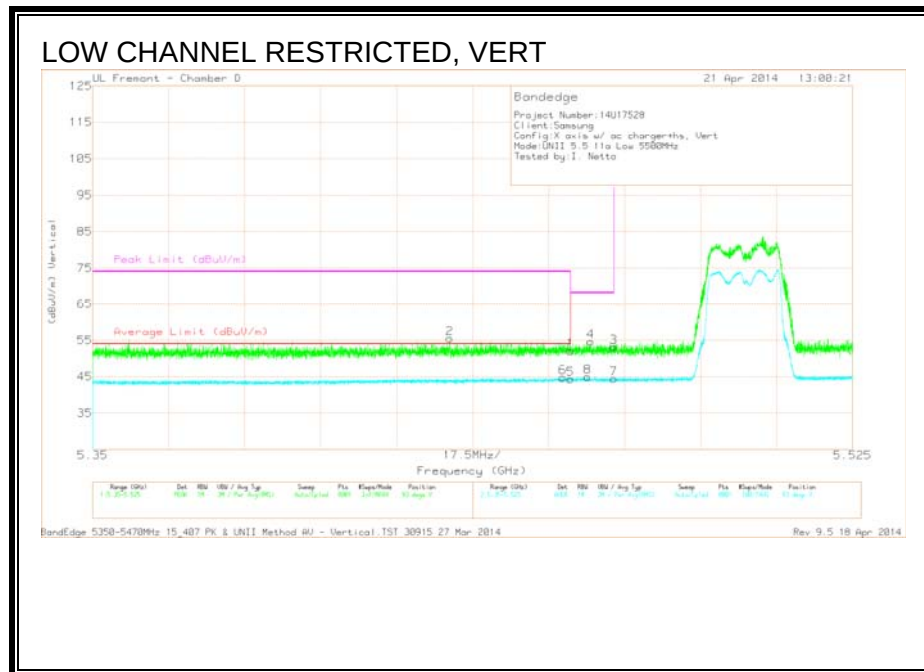
### 10.3. 5.5-5.6 GHz

#### 10.3.1. TX ABOVE 1 GHz 802.11a MODE IN THE 5.5 GHz BAND RESTRICTED BANDEDGE (LOW CHANNEL)



| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T712 (dBm) | Amp/Cbl/FI tr/Pad (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|---------------|------------------------|--------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 5.46          | 35.69                | PK  | 33.9          | -17.8                  | 0            | 51.79                      | -                      | -           | 74                  | -22.21         | 48             | 229         | H        |
| 2      | * 5.456         | 39.38                | PK  | 33.9          | -17.9                  | 0            | 55.38                      | -                      | -           | 74                  | -18.62         | 48             | 229         | H        |
| 5      | * 5.46          | 28.27                | RMS | 33.9          | -17.8                  | .3           | 44.57                      | 54                     | -9.43       | -                   | -              | 48             | 229         | H        |
| 6      | * 5.456         | 28.66                | RMS | 33.9          | -17.9                  | .3           | 44.86                      | 54                     | -9.14       | -                   | -              | 48             | 229         | H        |
| 8      | 5.462           | 28.45                | RMS | 33.9          | -17.7                  | .3           | 44.85                      | -                      | -           | -                   | -              | 48             | 229         | H        |
| 4      | 5.463           | 38.2                 | PK  | 33.9          | -17.7                  | 0            | 54.4                       | -                      | -           | 68.2                | -13.8          | 48             | 229         | H        |
| 3      | 5.47            | 34.82                | PK  | 33.9          | -17.9                  | 0            | 50.82                      | -                      | -           | 68.2                | -17.38         | 48             | 229         | H        |
| 7      | 5.47            | 28.2                 | RMS | 33.9          | -17.9                  | .3           | 44.4                       | -                      | -           | -                   | -              | 48             | 229         | H        |

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band



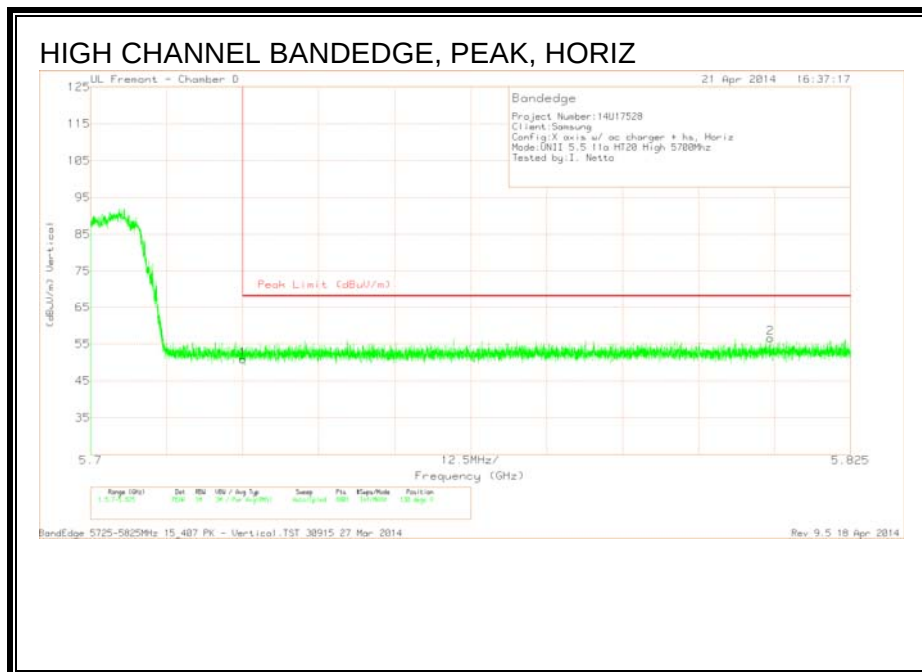
| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T712 (dB/m) | Amp/Cbl/Ftr/Pad (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|----------------------|--------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 5.46          | 35.99                | PK  | 33.9           | -17.8                | 0            | 52.09                      | -                      | -           | 74                  | -21.91         | 93             | 104         | V        |
| 2      | * 5.432         | 39.59                | PK  | 33.9           | -18                  | 0            | 55.49                      | -                      | -           | 74                  | -18.51         | 93             | 104         | V        |
| 5      | * 5.46          | 28.04                | RMS | 33.9           | -17.8                | .3           | 44.34                      | 54                     | -9.66       | -                   | -              | 93             | 104         | V        |
| 6      | * 5.458         | 28.47                | RMS | 33.9           | -17.8                | .3           | 44.77                      | 54                     | -9.23       | -                   | -              | 93             | 104         | V        |
| 8      | 5.464           | 28.6                 | RMS | 33.9           | -17.8                | .3           | 44.9                       | -                      | -           | -                   | -              | 93             | 104         | V        |
| 4      | 5.465           | 38.51                | PK  | 33.9           | -17.8                | 0            | 54.61                      | -                      | -           | 68.2                | -13.59         | 93             | 104         | V        |
| 3      | 5.47            | 37.14                | PK  | 33.9           | -17.9                | 0            | 53.14                      | -                      | -           | 68.2                | -15.06         | 93             | 104         | V        |
| 7      | 5.47            | 28.25                | RMS | 33.9           | -17.9                | .3           | 44.45                      | -                      | -           | -                   | -              | 93             | 104         | V        |

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

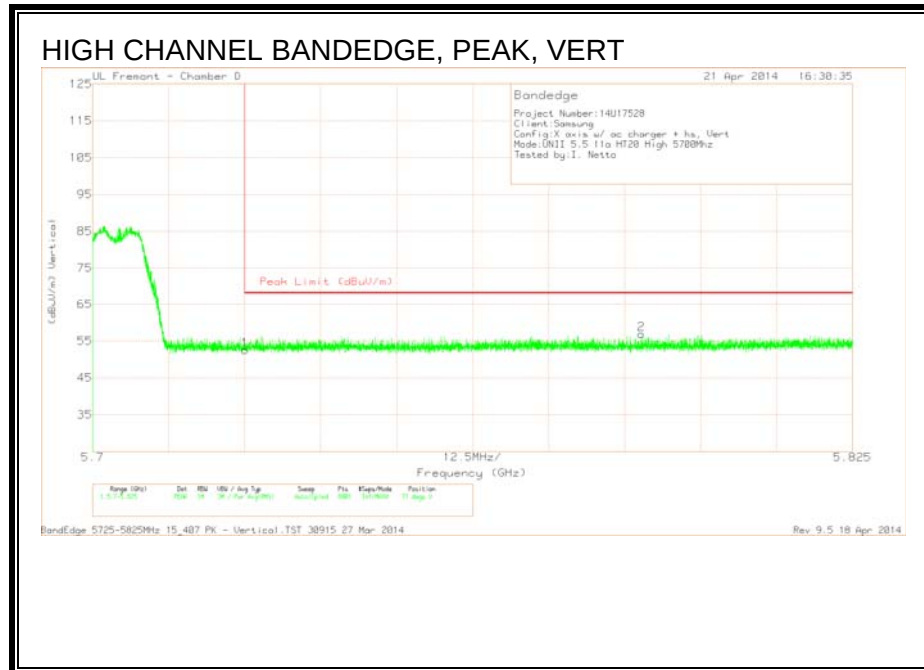
RMS - RMS detection

### AUTHORIZED BANDEDGE (HIGH CHANNEL)



| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T712 (dB/m) | Amp/Cbl/Filtr/Pad (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|------------------------|--------------|----------------------------|---------------------|----------------|----------------|-------------|----------|
| 1      | 5.725           | 34.23                | PK  | 34.2           | -17.6                  | 0            | 50.83                      | 68.2                | -17.37         | 130            | 394         | V        |
| 2      | 5.812           | 39.72                | PK  | 34.3           | -17.4                  | 0            | 56.62                      | 68.2                | -11.58         | 130            | 394         | V        |

PK - Peak detector

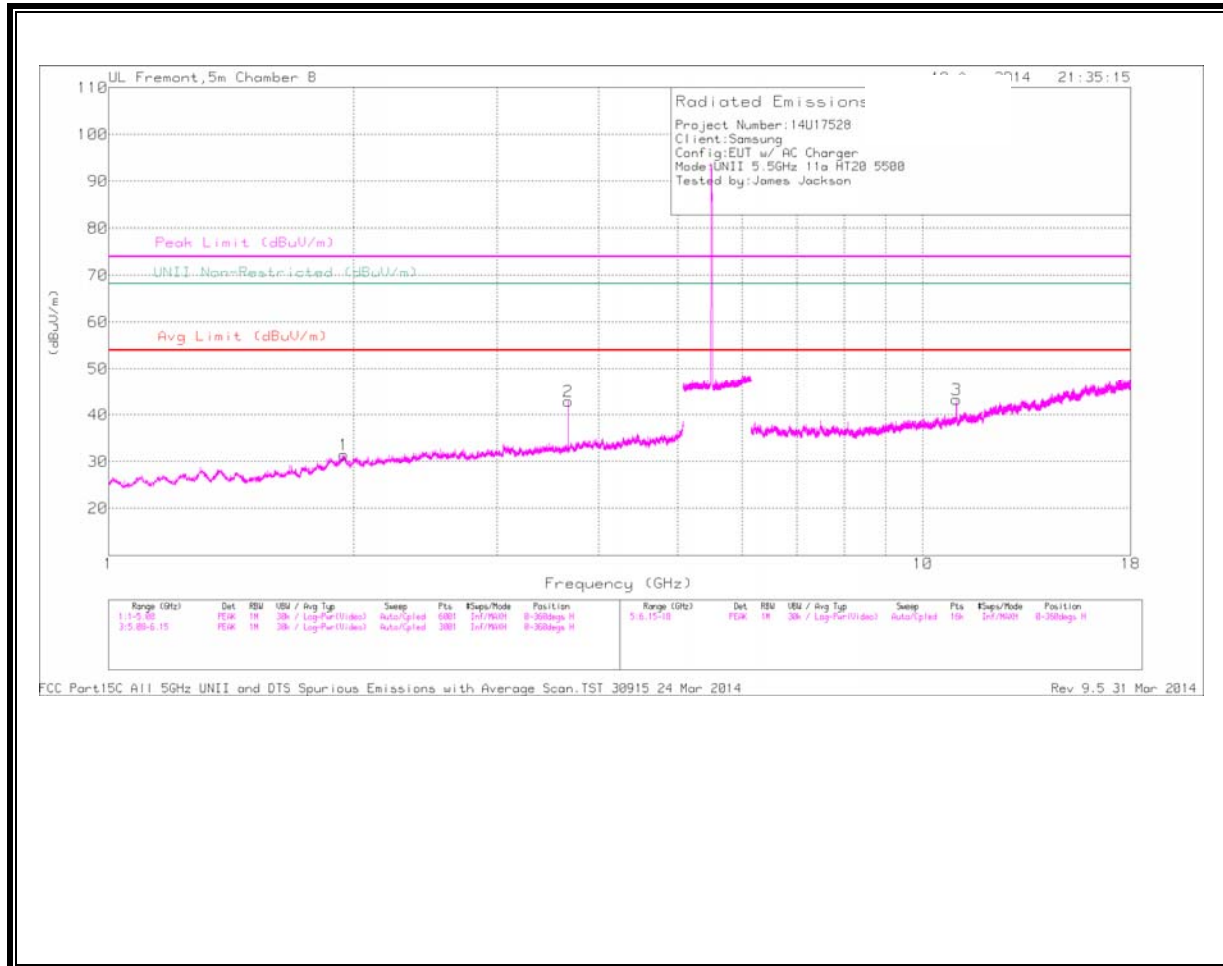


| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T712 (dB/m) | Amp/Cbl/ Filt/Pad (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|------------------------|--------------|----------------------------|---------------------|----------------|----------------|-------------|----------|
| 1      | 5.725           | 35.98                | PK  | 34.2           | -17.6                  | 0            | 52.58                      | 68.2                | -15.62         | 71             | 333         | V        |
| 2      | 5.79            | 40.13                | PK  | 34.3           | -17.6                  | 0            | 56.83                      | 68.2                | -11.37         | 71             | 333         | V        |

PK - Peak detector

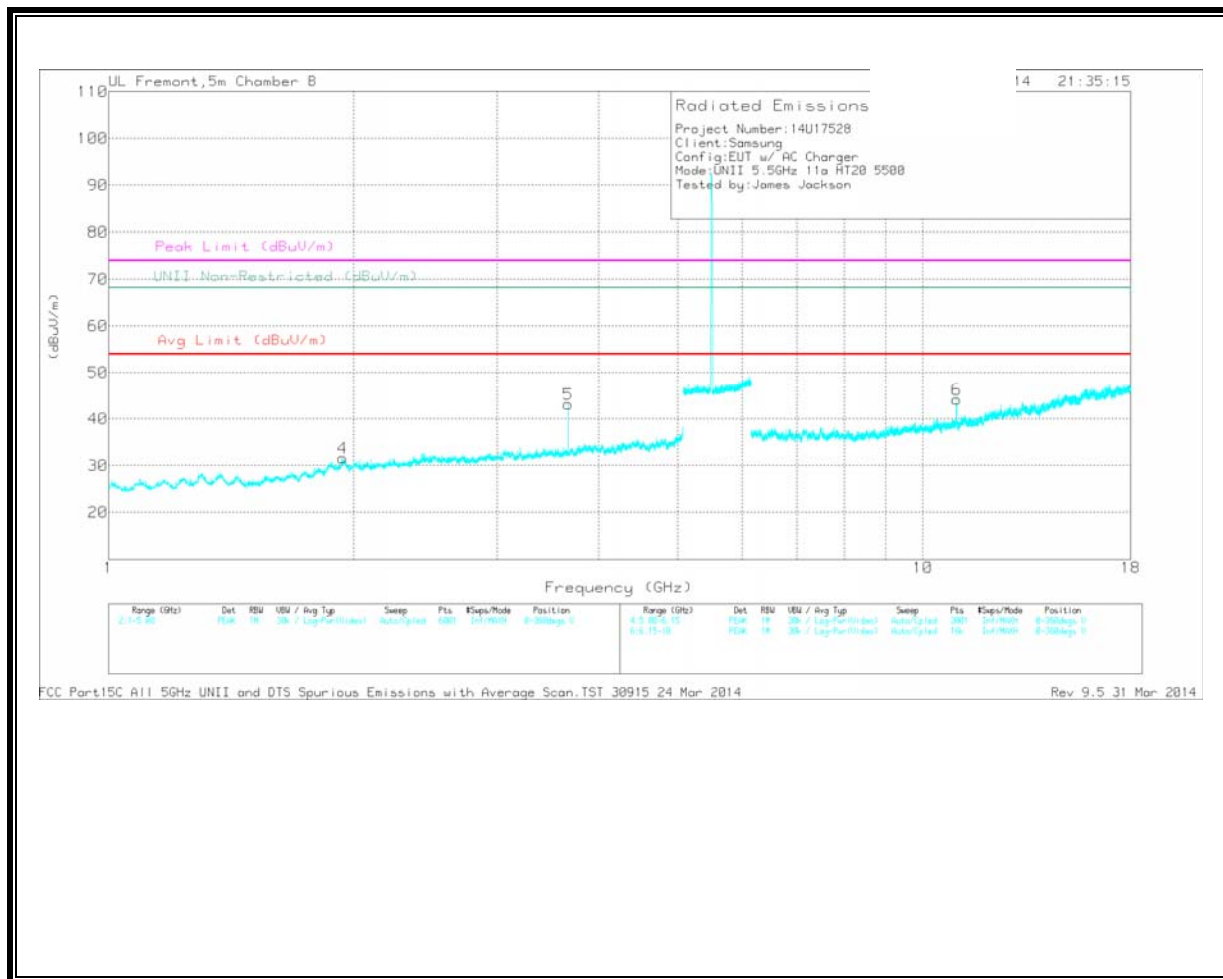
## HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL  
HORIZONTAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

# LOW CHANNEL DATA

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T345 (dBm) | Amp/Cbl/Fitter/Pad (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | UNII Non-Restricted (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|---------------|-------------------------|----------------------------|--------------------|-------------|---------------------|----------------|------------------------------|----------------|----------------|-------------|----------|
| 2      | * 3.667         | 40.68                | PK  | 33.3          | -31.1                   | 42.88                      | -                  | -           | 74                  | -31.12         | -                            | -              | 0-360          | 201         | H        |
| 5      | * 3.667         | 40.94                | PK  | 33.3          | -31.1                   | 43.14                      | -                  | -           | 74                  | -30.86         | -                            | -              | 0-360          | 202         | V        |
| 3      | * 10.996        | 28.83                | PK  | 37.8          | -23.3                   | 43.33                      | -                  | -           | 74                  | -30.67         | -                            | -              | 0-360          | 202         | H        |
| 6      | * 11            | 29.76                | PK  | 37.8          | -23.3                   | 44.26                      | -                  | -           | 74                  | -29.74         | -                            | -              | 0-360          | 202         | V        |
| 4      | 1.938           | 33.01                | PK  | 31.2          | -32.6                   | 31.61                      | -                  | -           | -                   | -              | 68.2                         | -36.59         | 0-360          | 202         | V        |
| 1      | 1.946           | 32.76                | PK  | 31.2          | -32.5                   | 31.46                      | -                  | -           | -                   | -              | 68.2                         | -36.74         | 0-360          | 99          | H        |

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

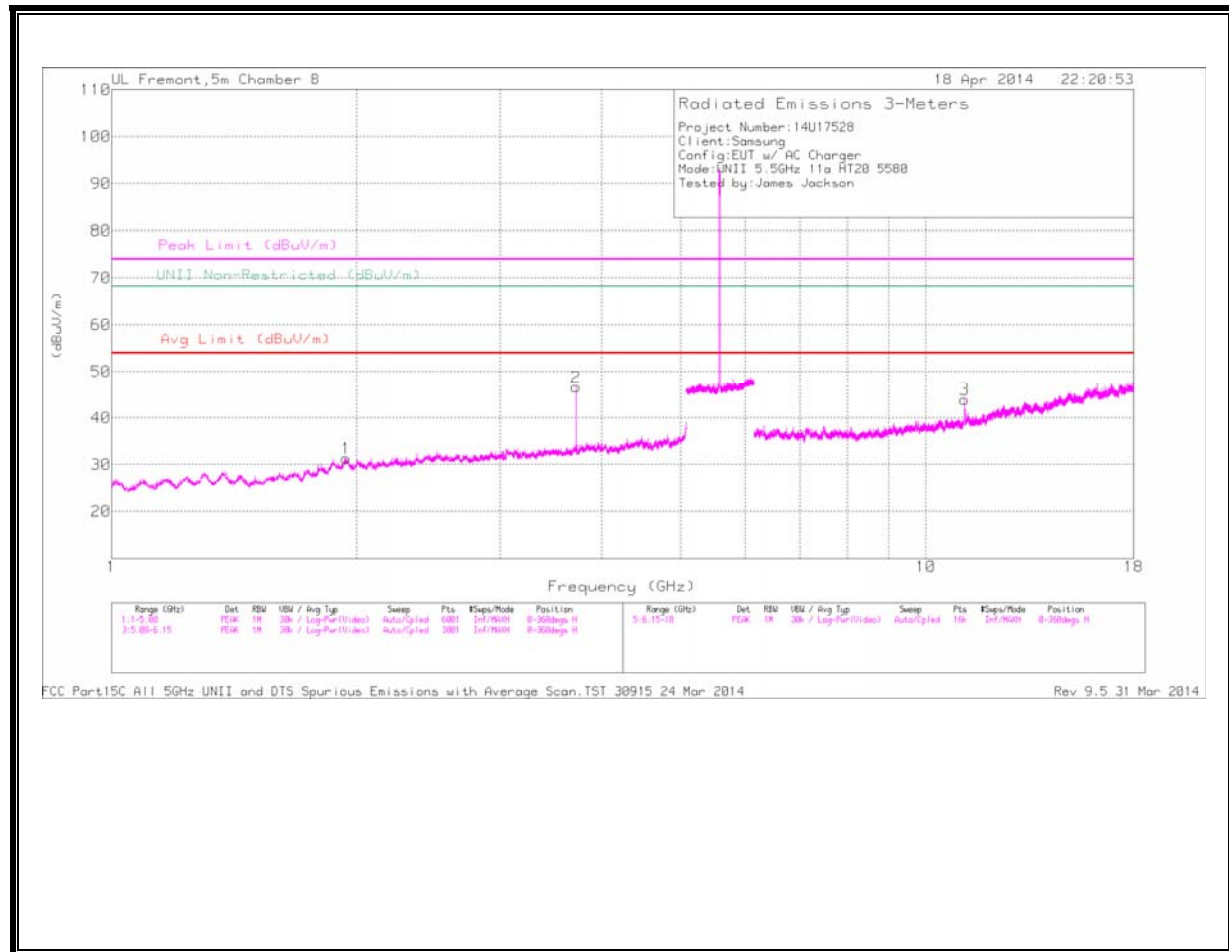
PK - Peak detector

Radiated Emissions

| Frequency (GHz) | Meter Reading (dBuV) | Det | AF T345 (dB/m) | Amp/Cbl/Fitter/Pad (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | UNII Non-Restricted (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|-----|----------------|-------------------------|----------------------------|--------------------|-------------|---------------------|----------------|------------------------------|----------------|----------------|-------------|----------|
| * 3.667         | 45.91                | PK1 | 33.3           | -31.1                   | 48.11                      | -                  | -           | 74                  | -25.89         | -                            | -              | 300            | 297         | H        |
| * 3.667         | 42.48                | AD1 | 33.3           | -31.1                   | 44.68                      | 54                 | -9.32       | -                   | -              | -                            | -              | 300            | 297         | H        |
| * 3.667         | 45.1                 | PK1 | 33.3           | -31.1                   | 47.3                       | -                  | -           | 74                  | -26.7          | -                            | -              | 47             | 262         | V        |
| * 3.667         | 40.72                | AD1 | 33.3           | -31.1                   | 42.92                      | 54                 | -11.08      | -                   | -              | -                            | -              | 47             | 262         | V        |
| * 10.997        | 36.98                | PK1 | 37.8           | -23.3                   | 51.48                      | -                  | -           | 74                  | -22.52         | -                            | -              | 38             | 209         | H        |
| * 10.996        | 26.39                | AD1 | 37.8           | -23.3                   | 40.89                      | 54                 | -13.11      | -                   | -              | -                            | -              | 38             | 209         | H        |
| * 10.999        | 40.72                | PK1 | 37.8           | -23.3                   | 55.22                      | -                  | -           | 74                  | -18.78         | -                            | -              | 55             | 250         | V        |
| * 11            | 29.47                | AD1 | 37.8           | -23.3                   | 43.97                      | 54                 | -10.03      | -                   | -              | -                            | -              | 55             | 250         | V        |
| 1.938           | 42                   | PK1 | 31.2           | -32.6                   | 40.6                       | -                  | -           | -                   | -              | 68.2                         | -27.6          | 300            | 297         | V        |
| 1.945           | 42                   | PK1 | 31.2           | -32.5                   | 40.7                       | -                  | -           | -                   | -              | 68.2                         | -27.5          | 1              | 100         | H        |

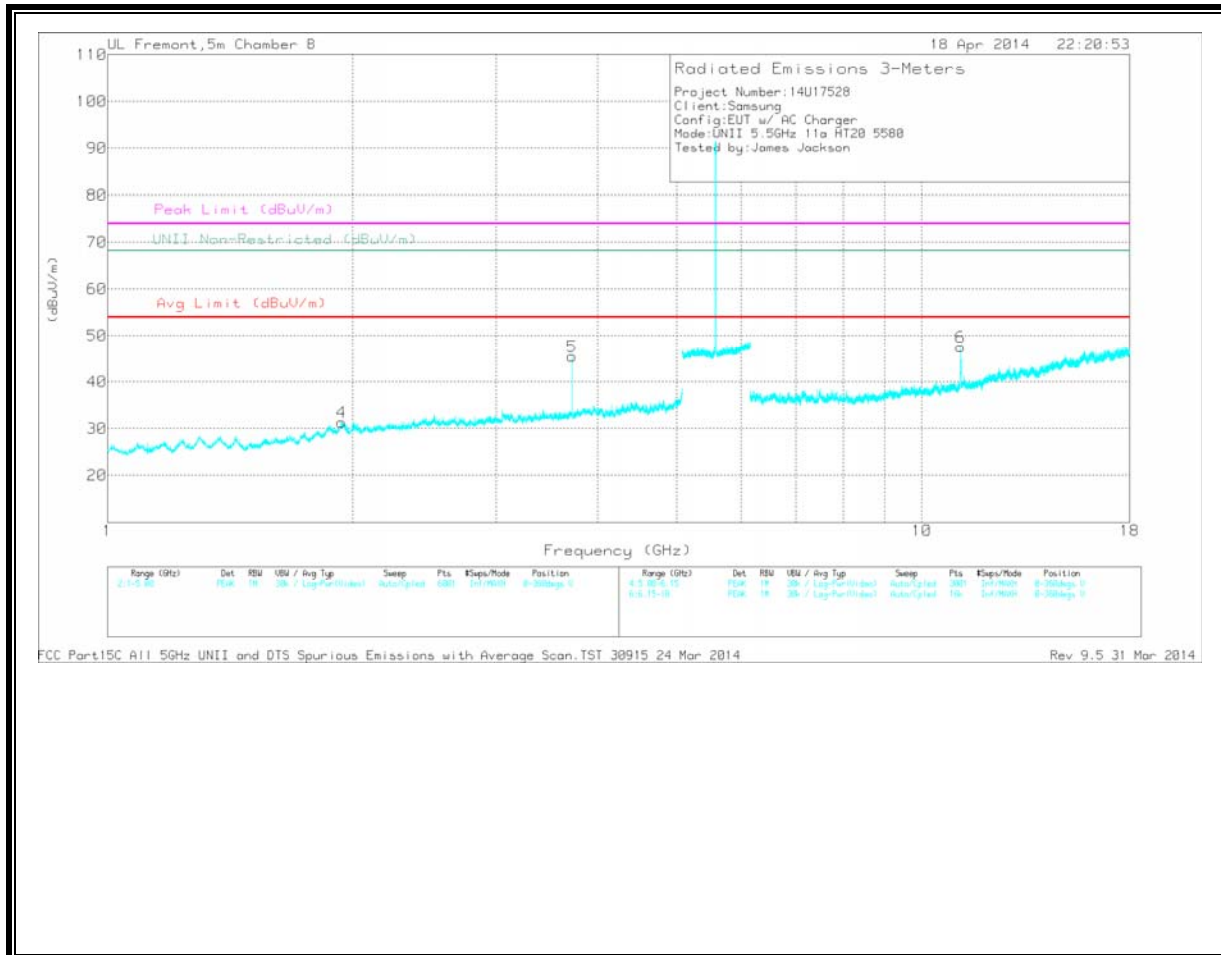
\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

MID CHANNEL  
HORIZONTAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

# MID CHANNEL DATA

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T345 (dB/m) | Amp/Cbl/Fit r/Pad (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | UNII Non-Restricted (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|------------------------|----------------------------|--------------------|-------------|---------------------|----------------|------------------------------|----------------|----------------|-------------|----------|
| 2      | * 3.72          | 44.83                | PK  | 33.4           | -31.5                  | 46.73                      | -                  | -           | 74                  | -27.27         | -                            | -              | 0-360          | 99          | H        |
| 5      | * 3.72          | 43.59                | PK  | 33.4           | -31.5                  | 45.49                      | -                  | -           | 74                  | -28.51         | -                            | -              | 0-360          | 202         | V        |
| 3      | * 11.161        | 29.41                | PK  | 37.9           | -23.3                  | 44.01                      | -                  | -           | 74                  | -29.99         | -                            | -              | 0-360          | 201         | H        |
| 6      | * 11.16         | 32.99                | PK  | 37.9           | -23.3                  | 47.59                      | -                  | -           | 74                  | -26.41         | -                            | -              | 0-360          | 202         | V        |
| 4      | 1.938           | 32.72                | PK  | 31.2           | -32.6                  | 31.32                      | -                  | -           | -                   | -              | 68.2                         | -36.88         | 0-360          | 202         | V        |
| 1      | 1.942           | 32.67                | PK  | 31.2           | -32.5                  | 31.37                      | -                  | -           | -                   | -              | 68.2                         | -36.83         | 0-360          | 99          | H        |

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

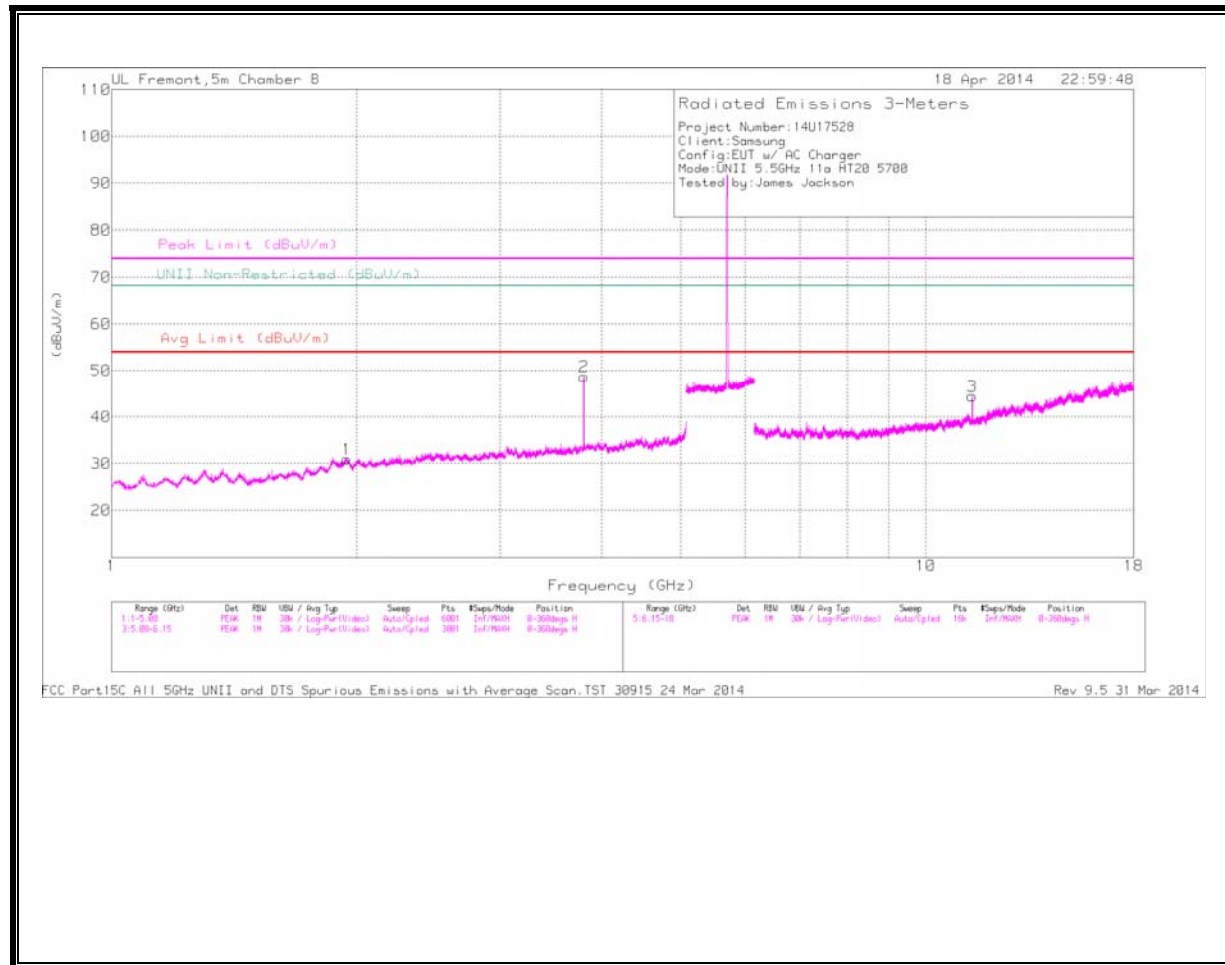
PK - Peak detector

## Radiated Emissions

| Frequency (GHz) | Meter Reading (dBuV) | Det | AF T345 (dB/m) | Amp/Cbl/Fit r/Pad (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | UNII Non-Restricted (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|-----|----------------|------------------------|----------------------------|--------------------|-------------|---------------------|----------------|------------------------------|----------------|----------------|-------------|----------|
| * 3.72          | 47.33                | PK1 | 33.4           | -31.5                  | 49.23                      | -                  | -           | 74                  | -24.77         | -                            | -              | 276            | 224         | H        |
| * 3.72          | 43.98                | AD1 | 33.4           | -31.5                  | 45.88                      | 54                 | -8.12       | -                   | -              | -                            | -              | 276            | 224         | H        |
| * 3.72          | 48.16                | PK1 | 33.4           | -31.5                  | 50.06                      | -                  | -           | 74                  | -23.94         | -                            | -              | 52             | 259         | V        |
| * 3.72          | 45.49                | AD1 | 33.4           | -31.5                  | 47.39                      | 54                 | -6.61       | -                   | -              | -                            | -              | 52             | 259         | V        |
| * 11.158        | 38.48                | PK1 | 37.9           | -23.3                  | 53.08                      | -                  | -           | 74                  | -20.92         | -                            | -              | 336            | 203         | H        |
| * 11.16         | 28.6                 | AD1 | 37.9           | -23.3                  | 43.2                       | 54                 | -10.8       | -                   | -              | -                            | -              | 336            | 203         | H        |
| * 11.159        | 43.32                | PK1 | 37.9           | -23.3                  | 57.92                      | -                  | -           | 74                  | -16.08         | -                            | -              | 46             | 232         | V        |
| * 11.16         | 33.44                | AD1 | 37.9           | -23.3                  | 48.04                      | 54                 | -5.96       | -                   | -              | -                            | -              | 46             | 232         | V        |
| 1.941           | 41.29                | PK1 | 31.2           | -32.5                  | 39.99                      | -                  | -           | -                   | -              | 68.2                         | -28.21         | 1              | 100         | H        |
| 1.941           | 41.62                | PK1 | 31.2           | -32.5                  | 40.32                      | -                  | -           | -                   | -              | 68.2                         | -27.88         | 276            | 224         | V        |

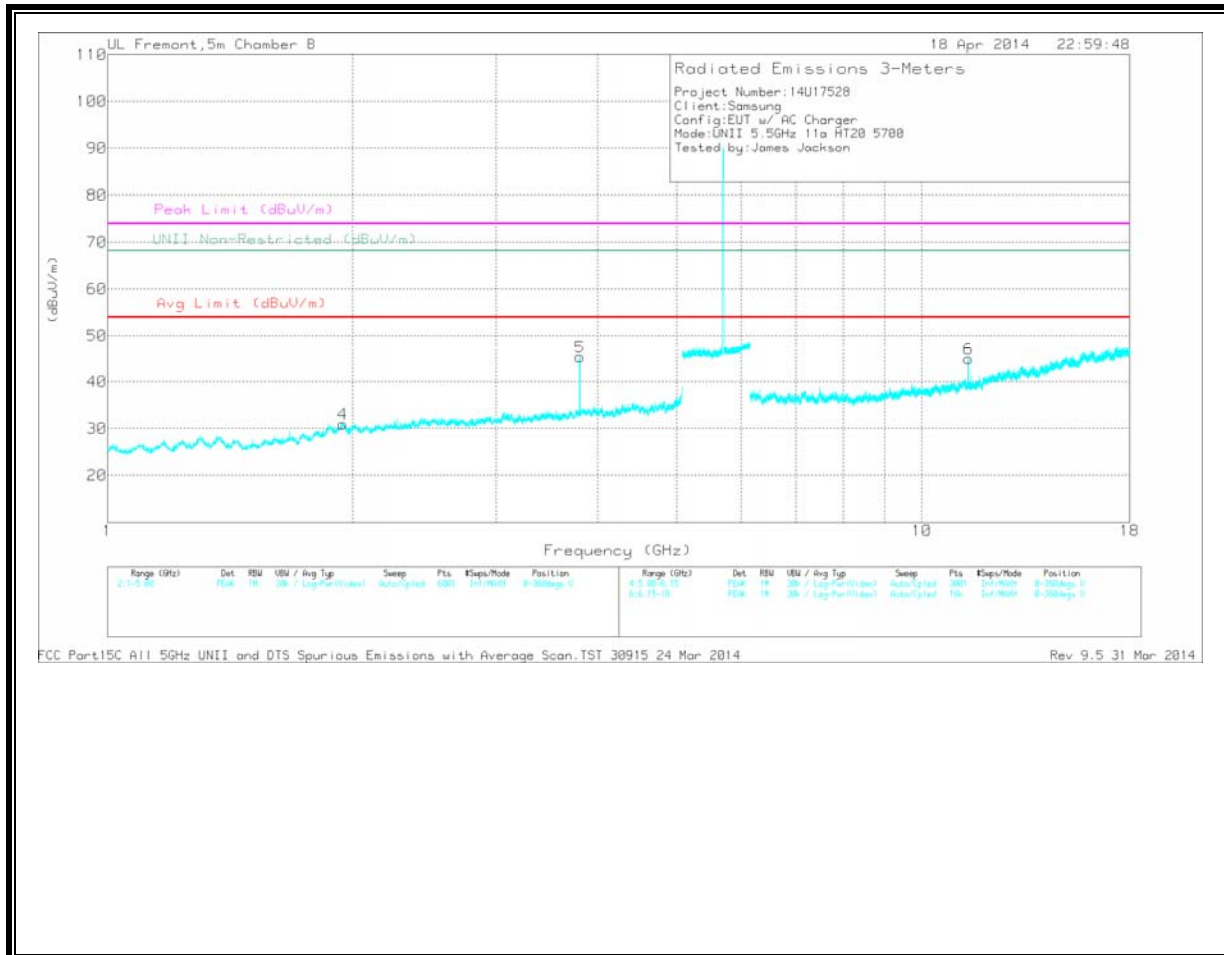
\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

HIGH CHANNEL  
HORIZONTAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

## HIGH CHANNEL DATA

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T345 (dB/m) | Amp/Cbl/Fitter/Pad (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | UNII Non-Restricted (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|-------------------------|----------------------------|--------------------|-------------|---------------------|----------------|------------------------------|----------------|----------------|-------------|----------|
| 2      | * 3.8           | 46.1                 | PK  | 33.6           | -31                     | 48.7                       | -                  | -           | 74                  | -25.3          | -                            | -              | 0-360          | 99          | H        |
| 5      | * 3.8           | 42.78                | PK  | 33.6           | -31                     | 45.38                      | -                  | -           | 74                  | -28.62         | -                            | -              | 0-360          | 202         | V        |
| 3      | * 11.4          | 29.71                | PK  | 38             | -23.3                   | 44.41                      | -                  | -           | 74                  | -29.59         | -                            | -              | 0-360          | 201         | H        |
| 6      | * 11.404        | 30.33                | PK  | 38             | -23.3                   | 45.03                      | -                  | -           | 74                  | -28.97         | -                            | -              | 0-360          | 202         | V        |
| 1      | 1.945           | 32.24                | PK  | 31.2           | -32.5                   | 30.94                      | -                  | -           | -                   | -              | 68.2                         | -37.26         | 0-360          | 99          | H        |
| 4      | 1.945           | 32.25                | PK  | 31.2           | -32.5                   | 30.95                      | -                  | -           | -                   | -              | 68.2                         | -37.25         | 0-360          | 202         | V        |

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

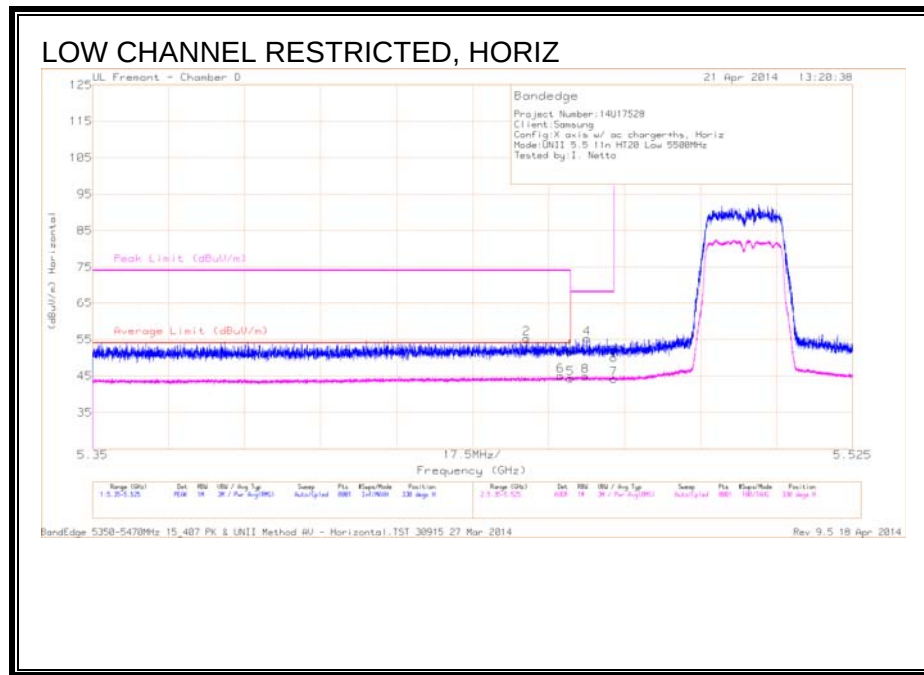
PK - Peak detector

### Radiated Emissions

| Frequency (GHz) | Meter Reading (dBuV) | Det | AF T345 (dB/m) | Amp/Cbl/Fitter/Pad (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | UNII Non-Restricted (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|-----|----------------|-------------------------|----------------------------|--------------------|-------------|---------------------|----------------|------------------------------|----------------|----------------|-------------|----------|
| * 3.8           | 50.27                | PK1 | 33.6           | -31                     | 52.87                      | -                  | -           | 74                  | -21.13         | -                            | -              | 274            | 247         | H        |
| * 3.8           | 47.78                | AD1 | 33.6           | -31                     | 50.38                      | 54                 | -3.62       | -                   | -              | -                            | -              | 274            | 247         | H        |
| * 3.8           | 48.23                | RMS | 33.6           | -31                     | 50.83                      | -                  | -           | -                   | -              | -                            | -              | 274            | 247         | H        |
| * 3.8           | 47.81                | PK1 | 33.6           | -31                     | 50.41                      | -                  | -           | 74                  | -23.59         | -                            | -              | 59             | 254         | V        |
| * 3.8           | 44.75                | AD1 | 33.6           | -31                     | 47.35                      | 54                 | -6.65       | -                   | -              | -                            | -              | 59             | 254         | V        |
| * 11.402        | 36.81                | PK1 | 38             | -23.3                   | 51.51                      | -                  | -           | 74                  | -22.49         | -                            | -              | 285            | 225         | H        |
| * 11.403        | 26.65                | AD1 | 38             | -23.3                   | 41.35                      | 54                 | -12.65      | -                   | -              | -                            | -              | 285            | 225         | H        |
| * 11.399        | 39.55                | PK1 | 38             | -23.3                   | 54.25                      | -                  | -           | 74                  | -19.75         | -                            | -              | 58             | 187         | V        |
| * 11.4          | 29.45                | AD1 | 38             | -23.3                   | 44.15                      | 54                 | -9.85       | -                   | -              | -                            | -              | 58             | 187         | V        |
| 1.944           | 41.67                | PK1 | 31.2           | -32.5                   | 40.37                      | -                  | -           | -                   | -              | 68.2                         | -27.83         | 274            | 247         | V        |
| 1.945           | 41.69                | PK1 | 31.2           | -32.5                   | 40.39                      | -                  | -           | -                   | -              | 68.2                         | -27.81         | 1              | 100         | H        |

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

### 10.3.3. TX ABOVE 1 GHz 802.11n HT20 MODE IN THE 5.5 GHz BAND RESTRICTED BANDEDGE (LOW CHANNEL)

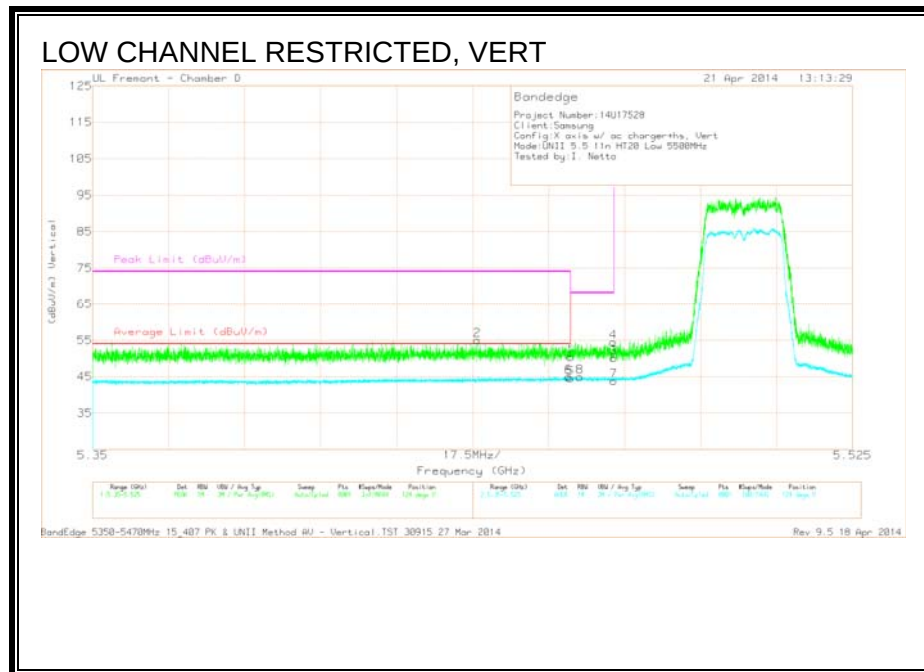


| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T712 (dB/m) | Amp/Cbl/FI tr/Pad (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|------------------------|--------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 5.46          | 35.61                | PK  | 33.9           | -17.8                  | 0            | 51.71                      | -                      | -           | 74                  | -22.29         | 330            | 197         | H        |
| 2      | * 5.45          | 39.36                | PK  | 33.9           | -18                    | 0            | 55.26                      | -                      | -           | 74                  | -18.74         | 330            | 197         | H        |
| 5      | * 5.46          | 27.98                | RMS | 33.9           | -17.8                  | .6           | 44.38                      | 54                     | -9.62       | -                   | -              | 330            | 197         | H        |
| 6      | * 5.458         | 28.74                | RMS | 33.9           | -17.9                  | .6           | 45.04                      | 54                     | -8.96       | -                   | -              | 330            | 197         | H        |
| 8      | 5.463           | 28.55                | RMS | 33.9           | -17.8                  | .6           | 44.95                      | -                      | -           | -                   | -              | 330            | 197         | H        |
| 4      | 5.464           | 39.14                | PK  | 33.9           | -17.8                  | 0            | 55.24                      | -                      | -           | 68.2                | -12.96         | 330            | 197         | H        |
| 3      | 5.47            | 34.1                 | PK  | 33.9           | -17.9                  | 0            | 50.1                       | -                      | -           | 68.2                | -18.1          | 330            | 197         | H        |
| 7      | 5.47            | 27.94                | RMS | 33.9           | -17.9                  | .6           | 44.24                      | -                      | -           | -                   | -              | 330            | 197         | H        |

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

RMS - RMS detection



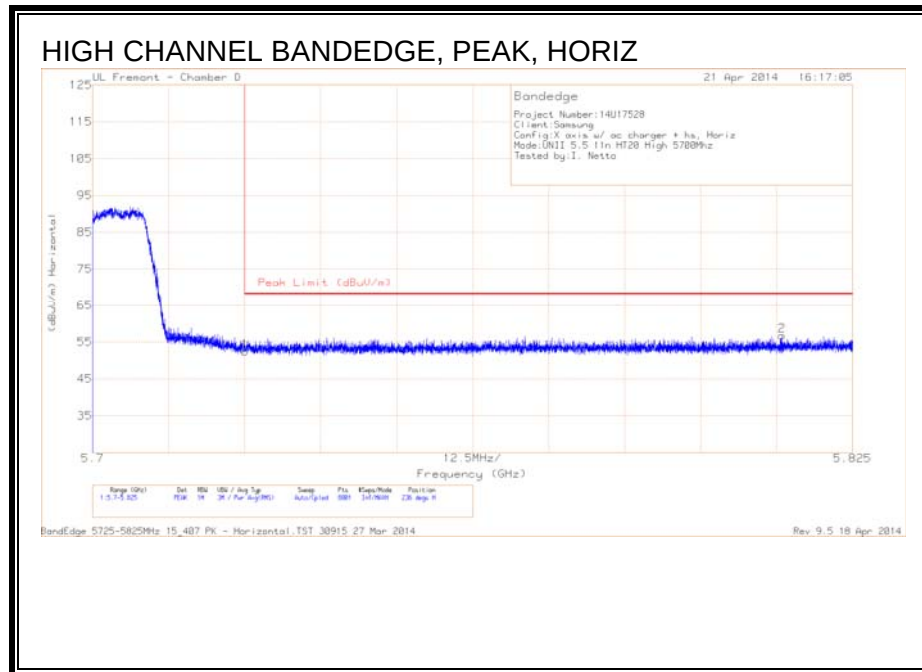
| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T712 (dB/m) | Amp/Cbl/Ftr/Pad (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|----------------------|--------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 5.46          | 34.29                | PK  | 33.9           | -17.8                | 0            | 50.39                      | -                      | -           | 74                  | -23.61         | 124            | 182         | V        |
| 2      | * 5.439         | 39.14                | PK  | 33.9           | -18                  | 0            | 55.04                      | -                      | -           | 74                  | -18.96         | 124            | 182         | V        |
| 5      | * 5.46          | 28.13                | RMS | 33.9           | -17.8                | .6           | 44.53                      | 54                     | -9.47       | -                   | -              | 124            | 182         | V        |
| 6      | * 5.46          | 28.58                | RMS | 33.9           | -17.8                | .6           | 44.98                      | 54                     | -9.02       | -                   | -              | 124            | 182         | V        |
| 8      | 5.462           | 28.5                 | RMS | 33.9           | -17.7                | .6           | 45                         | -                      | -           | -                   | -              | 124            | 182         | V        |
| 3      | 5.47            | 34.2                 | PK  | 33.9           | -17.9                | 0            | 50.2                       | -                      | -           | 68.2                | -18            | 124            | 182         | V        |
| 4      | 5.47            | 38.47                | PK  | 33.9           | -17.9                | 0            | 54.47                      | -                      | -           | 68.2                | -13.73         | 124            | 182         | V        |
| 7      | 5.47            | 27.51                | RMS | 33.9           | -17.9                | .6           | 43.81                      | -                      | -           | -                   | -              | 124            | 182         | V        |

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

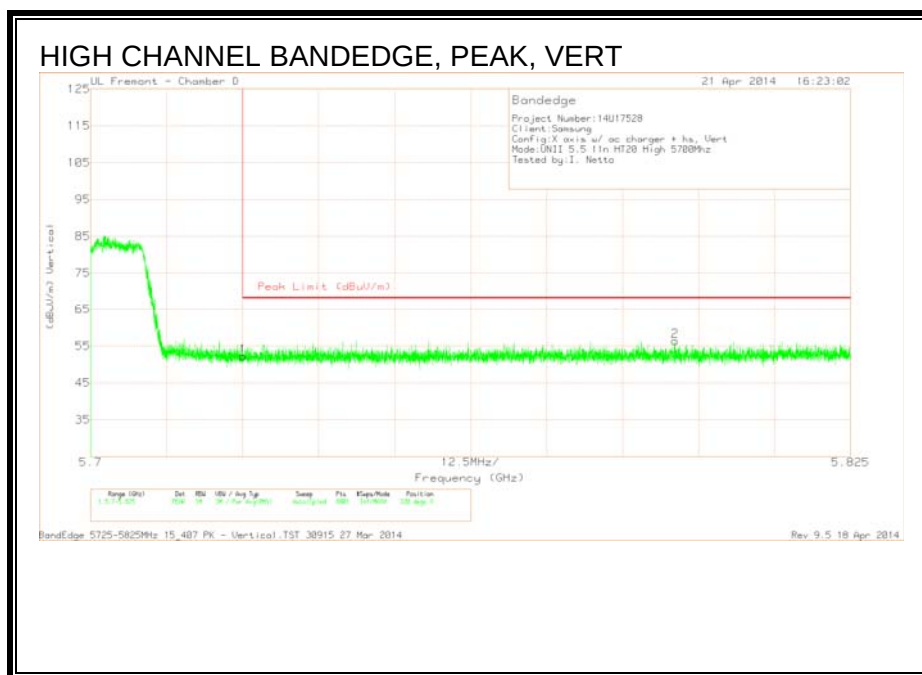
RMS - RMS detection

## AUTHORIZED BANDEDGE (HIGH CHANNEL)



| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T712 (dB/m) | Amp/Cbl/Filtr/Pad (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|------------------------|--------------|----------------------------|---------------------|----------------|----------------|-------------|----------|
| 1      | 5.725           | 35.88                | PK  | 34.2           | -17.6                  | 0            | 52.48                      | 68.2                | -15.72         | 236            | 216         | H        |
| 2      | 5.813           | 39.83                | PK  | 34.3           | -17.4                  | 0            | 56.73                      | 68.2                | -11.47         | 236            | 216         | H        |

PK - Peak detector

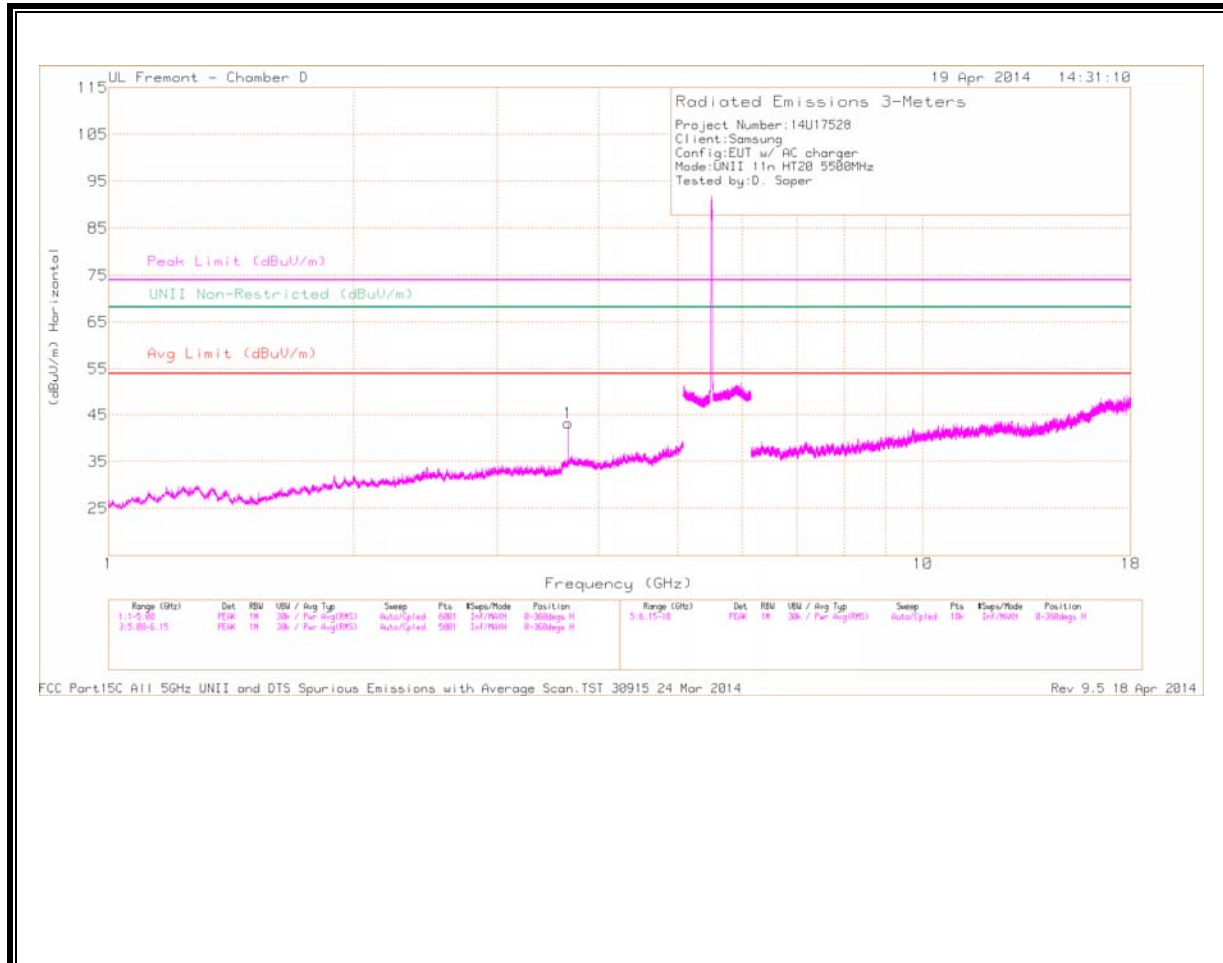


| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T712 (dB/m) | Amp/Cbl/Filtr/Pad (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|------------------------|--------------|----------------------------|---------------------|----------------|----------------|-------------|----------|
| 1      | 5.725           | 35.55                | PK  | 34.2           | -17.6                  | 0            | 52.15                      | 68.2                | -16.05         | 320            | 320         | V        |
| 2      | 5.796           | 39.77                | PK  | 34.3           | -17.7                  | 0            | 56.37                      | 68.2                | -11.83         | 320            | 320         | V        |

PK - Peak detector

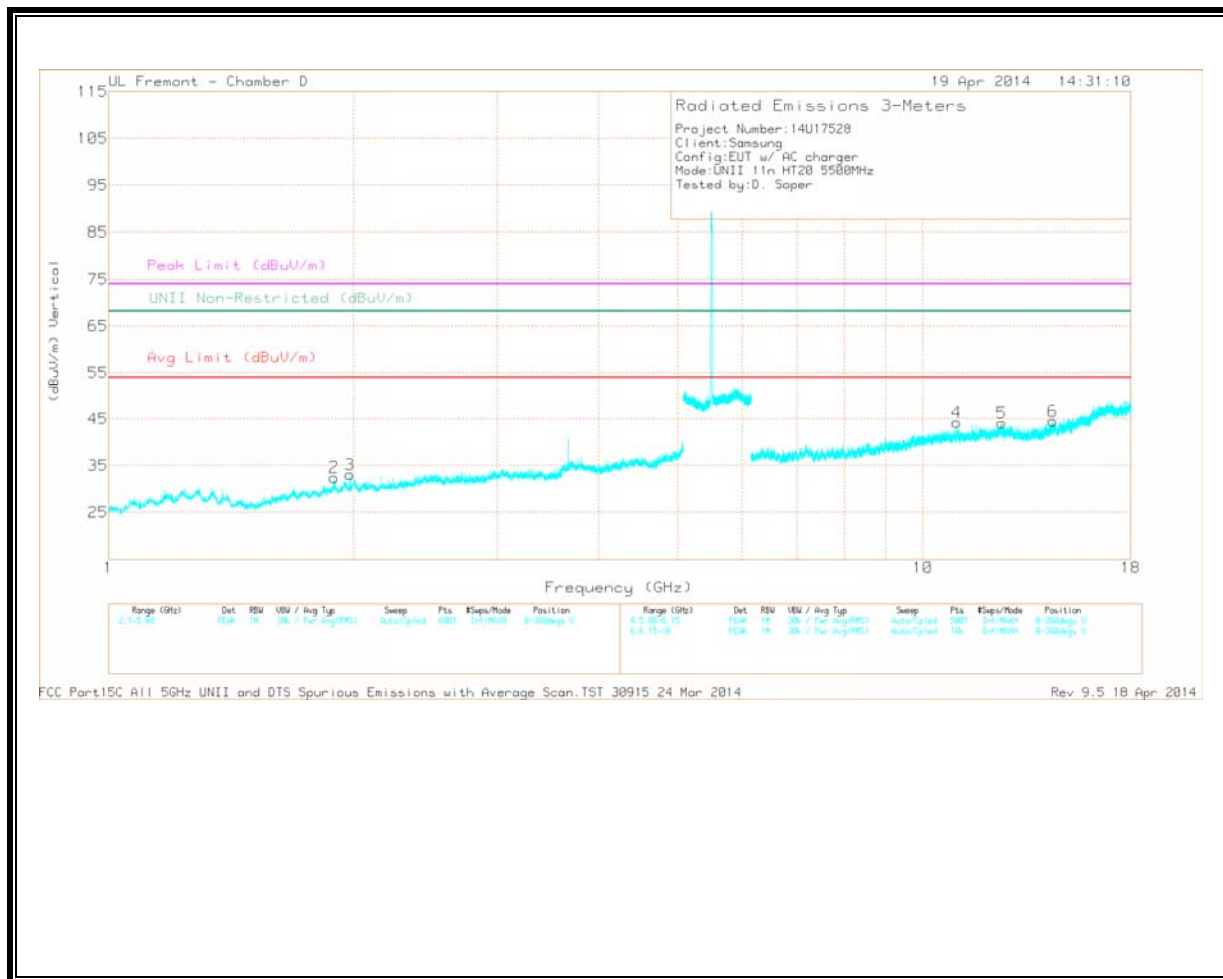
## HARMONICS AND SPURIOUS EMISSIONS

### LOW CHANNEL HORIZONTAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

## LOW CHANNEL DATA

| Marker | Frequenc<br>y<br>(GHz) | Meter<br>Reading<br>(dBuV) | Det | AF T712<br>(dB/m) | Ampl/Cbl/<br>Ftr/Pad<br>(dB) | DC Corr<br>(dB) | Correcte<br>d<br>Reading<br>(dBuV/m) | Avg<br>Limit<br>(dBuV/m) | Margin<br>(dB) | Peak<br>Limit<br>(dBuV/m) | PK<br>Margin<br>(dB) | UNII<br>Non-<br>Restrict<br>ed<br>(dBuV/m) | PK<br>Margin<br>(dB) | Azimuth<br>(Degs) | Height<br>(cm) | Polarity |
|--------|------------------------|----------------------------|-----|-------------------|------------------------------|-----------------|--------------------------------------|--------------------------|----------------|---------------------------|----------------------|--------------------------------------------|----------------------|-------------------|----------------|----------|
| 1      | * 3.667                | 38.98                      | PK  | 32.6              | -28.4                        | 0               | 43.18                                | -                        | -              | 74                        | -30.82               | -                                          | -                    | 0-360             | 100            | H        |
| 4      | *<br>10.999            | 28.43                      | PK  | 37.5              | -21.7                        | 0               | 44.23                                | -                        | -              | 74                        | -29.77               | -                                          | -                    | 0-360             | 201            | V        |
| 5      | *<br>12.488            | 27.16                      | PK  | 38.5              | -21.5                        | 0               | 44.16                                | -                        | -              | 74                        | -29.84               | -                                          | -                    | 0-360             | 100            | V        |
| 2      | 1.891                  | 32.72                      | PK  | 30.1              | -30.3                        | 0               | 32.52                                | -                        | -              | -                         | -                    | 68.2                                       | -35.68               | 0-360             | 201            | V        |
| 3      | 1.98                   | 33.08                      | PK  | 30.6              | -30.6                        | 0               | 33.08                                | -                        | -              | -                         | -                    | 68.2                                       | -35.12               | 0-360             | 201            | V        |
| 6      | 14.445                 | 28.34                      | PK  | 38.6              | -22.4                        | 0               | 44.54                                | -                        | -              | -                         | -                    | 68.2                                       | -23.66               | 0-360             | 100            | V        |

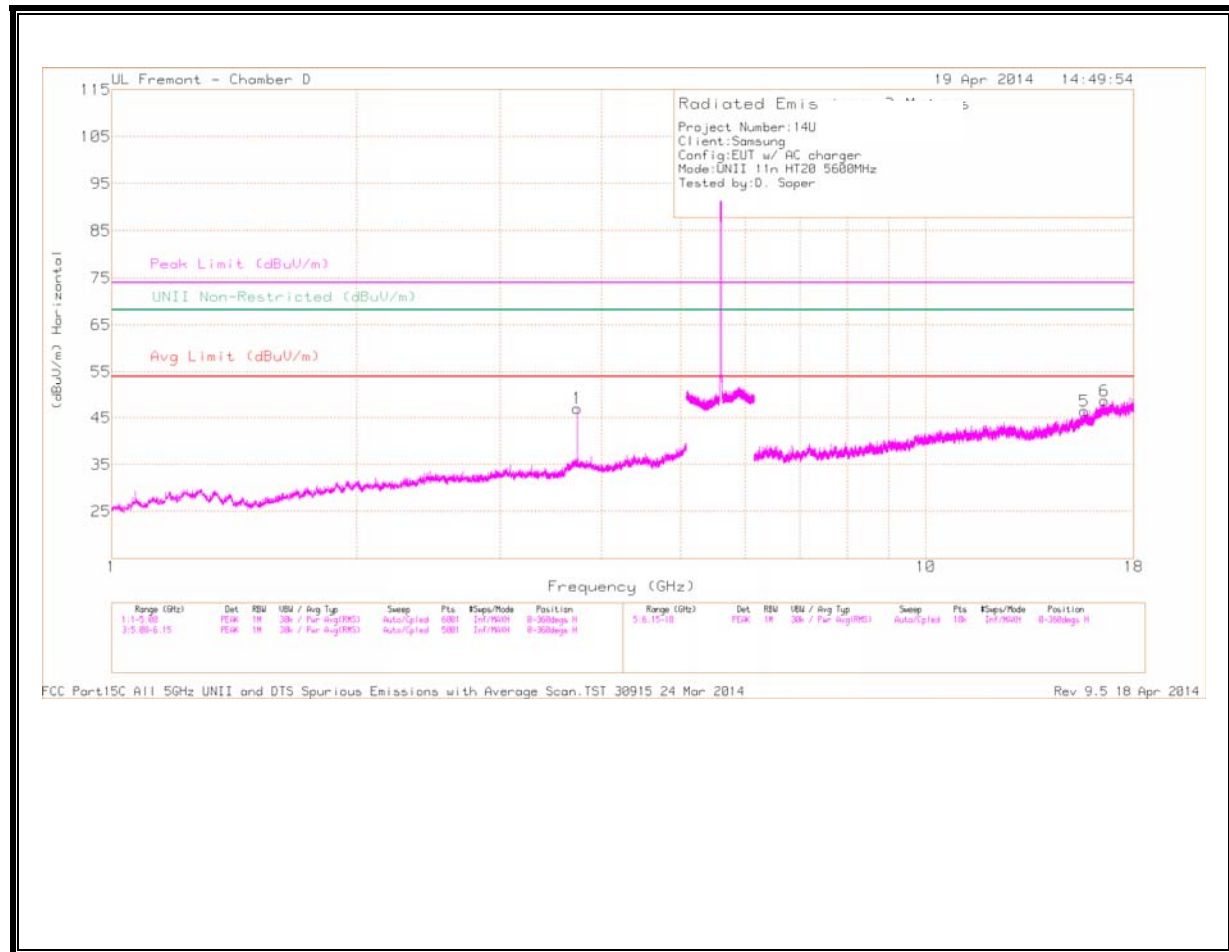
\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector  
Radiated Emissions

| Frequenc<br>y<br>(GHz) | Meter<br>Reading<br>(dBuV) | Det | AF T712<br>(dB/m) | Ampl/Cbl/<br>Ftr/Pad<br>(dB) | DC Corr<br>(dB) | Correcte<br>d<br>Reading<br>(dBuV/m) | Avg Limit<br>(dBuV/m) | Margin<br>(dB) | Peak Limit<br>(dBuV/m) | PK<br>Margin<br>(dB) | UNII Non-<br>Restricted<br>(dBuV/m) | PK<br>Margin<br>(dB) | Azimuth<br>(Degs) | Height<br>(cm) | Polarity |
|------------------------|----------------------------|-----|-------------------|------------------------------|-----------------|--------------------------------------|-----------------------|----------------|------------------------|----------------------|-------------------------------------|----------------------|-------------------|----------------|----------|
| * 3.666                | 42.39                      | PK1 | 32.6              | -28.4                        | 0               | 46.59                                | -                     | -              | 74                     | -27.41               | -                                   | -                    | 9                 | 104            | H        |
| * 3.667                | 36.01                      | AD1 | 32.6              | -28.4                        | 1.1             | 41.31                                | 54                    | -12.69         | -                      | -                    | -                                   | -                    | 9                 | 104            | H        |

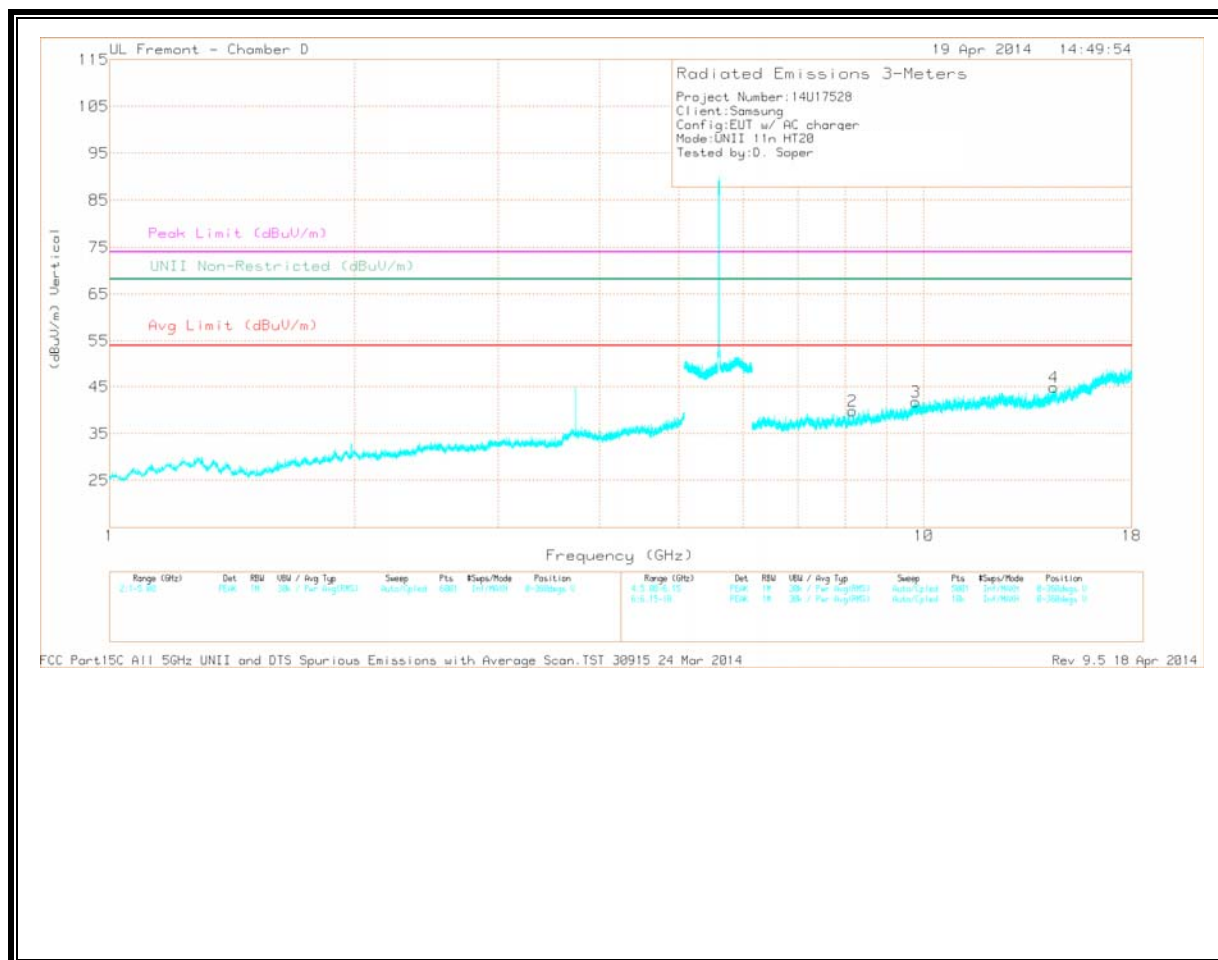
\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

MID CHANNEL  
HORIZONTAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

# MID CHANNEL DATA

| Marker | Frequenc<br>y<br>(GHz) | Meter<br>Reading<br>(dBuV) | Det | AF T712<br>(dB/m) | Ampl/Cbl/F<br>lter/Pad<br>(dB) | DC Corr<br>(dB) | Correcte<br>d<br>Reading<br>(dBuV/m) | Avg Limit<br>(dBuV/m) | Margin<br>(dB) | Peak Limit<br>(dBuV/m) | PK<br>Margin<br>(dB) | UNII Non-<br>Restrict<br>ed<br>(dBuV/m) | PK<br>Margin<br>(dB) | Azimuth<br>(Degs) | Height<br>(cm) | Polarity |
|--------|------------------------|----------------------------|-----|-------------------|--------------------------------|-----------------|--------------------------------------|-----------------------|----------------|------------------------|----------------------|-----------------------------------------|----------------------|-------------------|----------------|----------|
| 1      | * 3.734                | 43.06                      | PK  | 32.7              | -28.7                          | 0               | 47.06                                | -                     | -              | 74                     | -26.94               | -                                       | -                    | 0-360             | 100            | H        |
| 5      | *<br>15.666            | 27.74                      | PK  | 40                | -21.3                          | 0               | 46.44                                | -                     | -              | 74                     | -27.56               | -                                       | -                    | 0-360             | 201            | H        |
| 2      | * 8.177                | 29.01                      | PK  | 35.3              | -24.4                          | 0               | 39.91                                | -                     | -              | 74                     | -34.09               | -                                       | -                    | 0-360             | 201            | V        |
| 3      | 9.781                  | 27.27                      | PK  | 36.4              | -21.9                          | 0               | 41.77                                | -                     | -              | -                      | -                    | 68.2                                    | -26.43               | 0-360             | 100            | V        |
| 4      | 14.448                 | 28.8                       | PK  | 38.6              | -22.5                          | 0               | 44.9                                 | -                     | -              | -                      | -                    | 68.2                                    | -23.3                | 0-360             | 100            | V        |
| 6      | 16.576                 | 27.14                      | PK  | 41.2              | -19.7                          | 0               | 48.64                                | -                     | -              | -                      | -                    | 68.2                                    | -19.56               | 0-360             | 201            | H        |

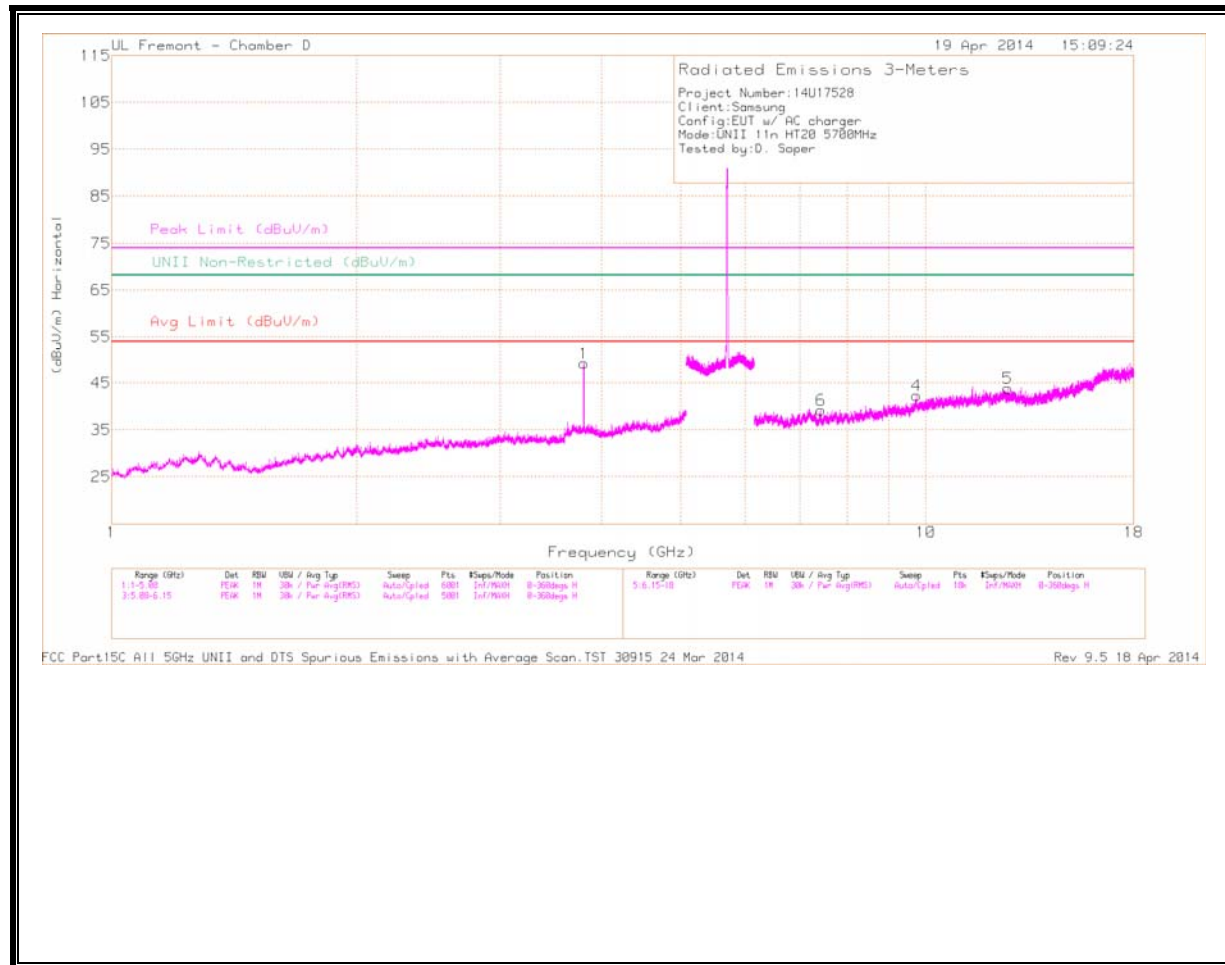
\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector  
Radiated Emissions

| Frequenc<br>y<br>(GHz) | Meter<br>Reading<br>(dBuV) | Det | AF T712<br>(dB/m) | Ampl/Cbl/F<br>lter/Pad<br>(dB) | DC Corr<br>(dB) | Correcte<br>d<br>Reading<br>(dBuV/m) | Avg Limit<br>(dBuV/m) | Margin<br>(dB) | Peak Limit<br>(dBuV/m) | PK<br>Margin<br>(dB) | UNII Non-<br>Restricted<br>(dBuV/m) | PK<br>Margin<br>(dB) | Azimuth<br>(Degs) | Height<br>(cm) | Polarity |
|------------------------|----------------------------|-----|-------------------|--------------------------------|-----------------|--------------------------------------|-----------------------|----------------|------------------------|----------------------|-------------------------------------|----------------------|-------------------|----------------|----------|
| * 3.733                | 47.07                      | PK1 | 32.7              | -28.7                          | 0               | 51.07                                | -                     | -              | 74                     | -22.93               | -                                   | -                    | 263               | 249            | H        |
| * 3.733                | 43.2                       | AD1 | 32.7              | -28.7                          | 1.1             | 48.3                                 | 54                    | -5.7           | -                      | -                    | -                                   | -                    | 263               | 249            | H        |

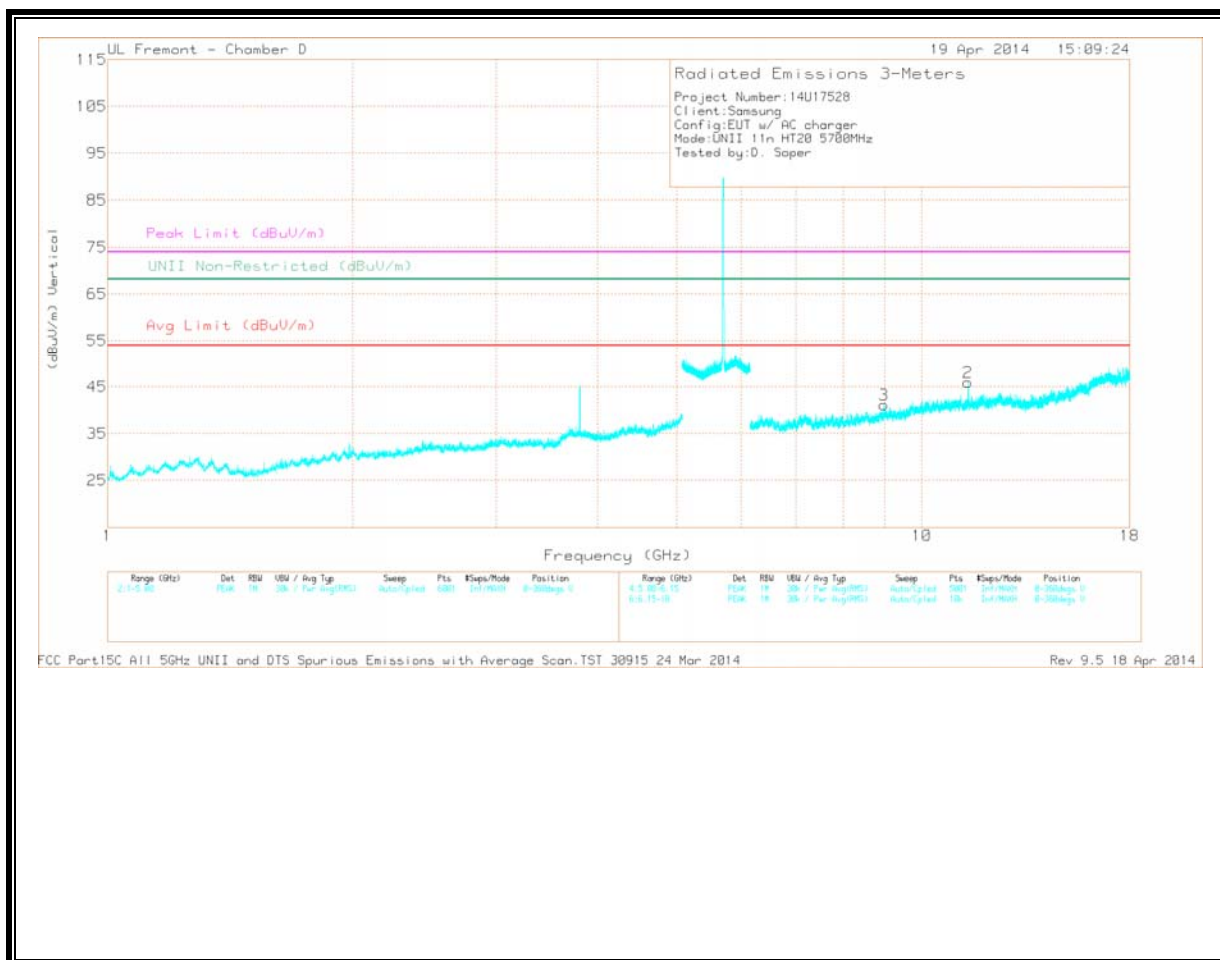
\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

HIGH CHANNEL  
HORIZONTAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

# VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

## HIGH CHANNEL DATA

| Marker | Frequenc<br>y<br>(GHz) | Meter<br>Reading<br>(dBuV) | Det | AF T712<br>(dB/m) | Ampl/Cbl/<br>Ftr/Pad<br>(dB) | DC Corr<br>(dB) | Correcte<br>d<br>Reading<br>(dBuV/m) | Avg<br>Limit<br>(dBuV/m) | Margin<br>(dB) | Peak<br>Limit<br>(dBuV/m) | PK<br>Margin<br>(dB) | UNII<br>Non-<br>Restrict<br>ed<br>(dBuV/m) | PK<br>Margin<br>(dB) | Azimuth<br>(Degs) | Height<br>(cm) | Polarity |
|--------|------------------------|----------------------------|-----|-------------------|------------------------------|-----------------|--------------------------------------|--------------------------|----------------|---------------------------|----------------------|--------------------------------------------|----------------------|-------------------|----------------|----------|
| 1      | * 3.8                  | 45.35                      | PK  | 32.7              | -28.9                        | 0               | 49.15                                | -                        | -              | 74                        | -24.85               | -                                          | -                    | 0-360             | 100            | H        |
| 5      | *<br>12.612            | 27.27                      | PK  | 38.6              | -22                          | 0               | 43.87                                | -                        | -              | 74                        | -30.13               | -                                          | -                    | 0-360             | 100            | H        |
| 6      | * 7.44                 | 28.77                      | PK  | 35.2              | -24.8                        | 0               | 39.17                                | -                        | -              | 74                        | -34.83               | -                                          | -                    | 0-360             | 100            | H        |
| 2      | *<br>11.399            | 30.16                      | PK  | 37.6              | -21.8                        | 0               | 45.96                                | -                        | -              | 74                        | -28.04               | -                                          | -                    | 0-360             | 100            | V        |
| 3      | 8.99                   | 28.23                      | PK  | 35.8              | -22.9                        | 0               | 41.13                                | -                        | -              | -                         | -                    | 68.2                                       | -27.07               | 0-360             | 201            | V        |
| 4      | 9.737                  | 27.33                      | PK  | 36.4              | -21.4                        | 0               | 42.33                                | -                        | -              | -                         | -                    | 68.2                                       | -25.87               | 0-360             | 201            | H        |

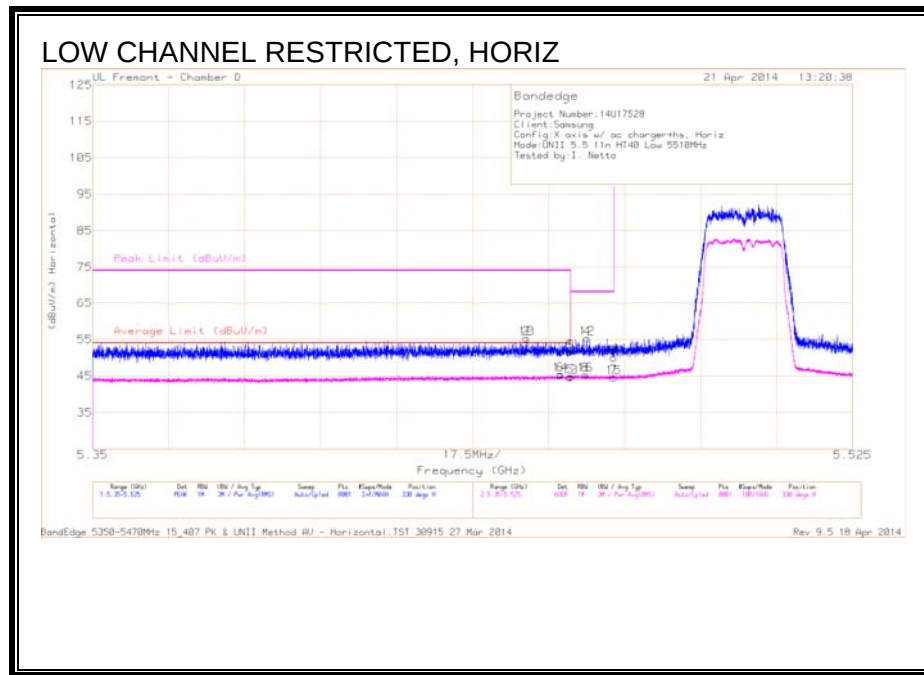
\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector  
Radiated Emissions

| Frequenc<br>y<br>(GHz) | Meter<br>Reading<br>(dBuV) | Det | AF T712<br>(dB/m) | Ampl/Cbl/<br>Ftr/Pad<br>(dB) | DC Corr<br>(dB) | Correcte<br>d<br>Reading<br>(dBuV/m) | Avg Limit<br>(dBuV/m) | Margin<br>(dB) | Peak Limit<br>(dBuV/m) | PK<br>Margin<br>(dB) | UNII Non-<br>Restricted<br>(dBuV/m) | PK<br>Margin<br>(dB) | Azimuth<br>(Degs) | Height<br>(cm) | Polarity |
|------------------------|----------------------------|-----|-------------------|------------------------------|-----------------|--------------------------------------|-----------------------|----------------|------------------------|----------------------|-------------------------------------|----------------------|-------------------|----------------|----------|
| * 3.8                  | 49.08                      | PK1 | 32.7              | -28.9                        | 0               | 52.88                                | -                     | -              | 74                     | -21.12               | -                                   | -                    | 256               | 277            | H        |
| * 3.8                  | 45.59                      | AD1 | 32.7              | -28.9                        | 1.1             | 50.49                                | 54                    | -3.51          | -                      | -                    | -                                   | -                    | 256               | 277            | H        |
| * 11.399               | 35.02                      | PK1 | 37.6              | -21.7                        | 0               | 50.92                                | -                     | -              | 74                     | -23.08               | -                                   | -                    | 256               | 277            | V        |
| * 11.4                 | 24.26                      | AD1 | 37.6              | -21.7                        | 1.1             | 41.26                                | 54                    | -12.74         | -                      | -                    | -                                   | -                    | 256               | 277            | V        |

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

### 10.3.5. TX ABOVE 1 GHz 802.11n HT40 MODE IN THE 5.5 GHz BAND RESTRICTED BANDEDGE (LOW CHANNEL)

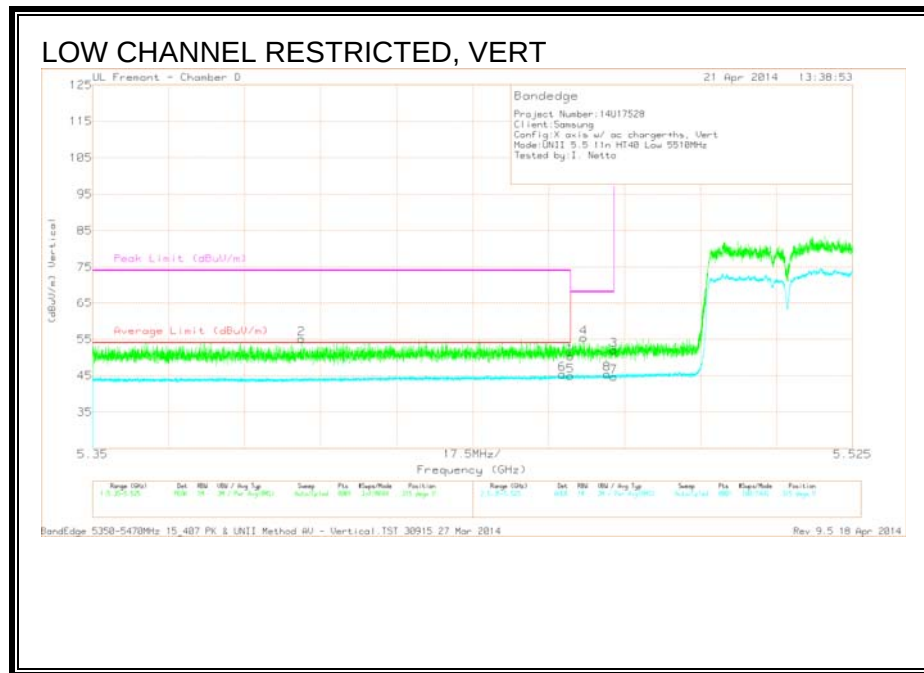


| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T712 (dB/m) | Amp/Cbl/FI tr/Pad (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|------------------------|--------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 5.46          | 35.61                | PK  | 33.9           | -17.8                  | 0            | 51.71                      | -                      | -           | 74                  | -22.29         | 330            | 197         | H        |
| 2      | * 5.45          | 39.36                | PK  | 33.9           | -18                    | 0            | 55.26                      | -                      | -           | 74                  | -18.74         | 330            | 197         | H        |
| 5      | * 5.46          | 27.98                | RMS | 33.9           | -17.8                  | 1.1          | 44.78                      | 54                     | -9.22       | -                   | -              | 330            | 197         | H        |
| 6      | * 5.458         | 28.74                | RMS | 33.9           | -17.9                  | 1.1          | 45.44                      | 54                     | -8.56       | -                   | -              | 330            | 197         | H        |
| 4      | 5.464           | 39.14                | PK  | 33.9           | -17.8                  | 0            | 55.24                      | -                      | -           | 68.2                | -12.96         | 330            | 197         | H        |
| 12     | 5.464           | 39.14                | PK  | 33.9           | -17.8                  | 0            | 55.24                      | -                      | -           | 68.2                | -12.96         | 330            | 197         | H        |
| 3      | 5.47            | 34.1                 | PK  | 33.9           | -17.9                  | 0            | 50.1                       | -                      | -           | 68.2                | -18.1          | 330            | 197         | H        |
| 11     | 5.47            | 34.1                 | PK  | 33.9           | -17.9                  | 0            | 50.1                       | -                      | -           | 68.2                | -18.1          | 330            | 197         | H        |
| 7      | 5.47            | 27.94                | RMS | 33.9           | -17.9                  | 1.1          | 44.64                      | -                      | -           | -                   | -              | 330            | 197         | H        |
| 15     | 5.47            | 27.87                | RMS | 33.9           | -17.9                  | 1.1          | 44.57                      | -                      | -           | -                   | -              | 330            | 197         | H        |

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

RMS - RMS detection



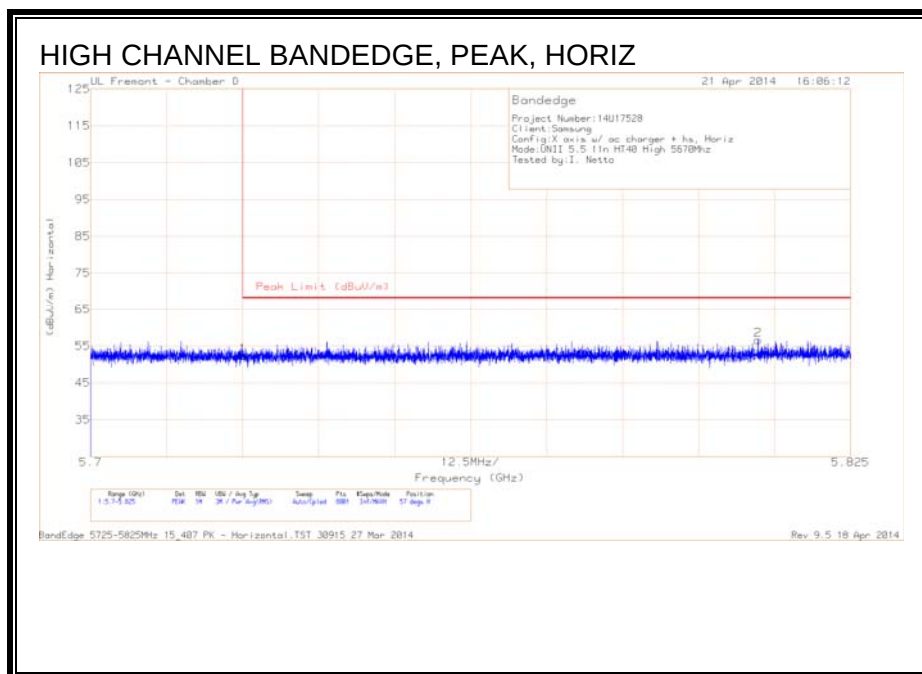
| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T712 (dB/m) | Amp/Cb/Fltr/Pad (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|----------------------|--------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 5.46          | 34.25                | PK  | 33.9           | -17.8                | 0            | 50.35                      | -                      | -           | 74                  | -23.65         | 315            | 336         | V        |
| 2      | * 5.398         | 39.45                | PK  | 33.9           | -18.2                | 0            | 55.15                      | -                      | -           | 74                  | -18.85         | 315            | 336         | V        |
| 5      | * 5.46          | 28.12                | RMS | 33.9           | -17.8                | 1.1          | 44.92                      | 54                     | -9.08       | -                   | -              | 315            | 336         | V        |
| 6      | * 5.458         | 28.59                | RMS | 33.9           | -17.8                | 1.1          | 45.39                      | 54                     | -8.61       | -                   | -              | 315            | 336         | V        |
| 4      | 5.463           | 39.16                | PK  | 33.9           | -17.7                | 0            | 55.36                      | -                      | -           | 68.2                | -12.84         | 315            | 336         | V        |
| 8      | 5.468           | 28.77                | RMS | 33.9           | -17.9                | 1.1          | 45.47                      | -                      | -           | -                   | -              | 315            | 336         | V        |
| 3      | 5.47            | 36.08                | PK  | 33.9           | -17.9                | 0            | 52.08                      | -                      | -           | 68.2                | -16.12         | 315            | 336         | V        |
| 7      | 5.47            | 28.06                | RMS | 33.9           | -17.9                | 1.1          | 44.76                      | -                      | -           | -                   | -              | 315            | 336         | V        |

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

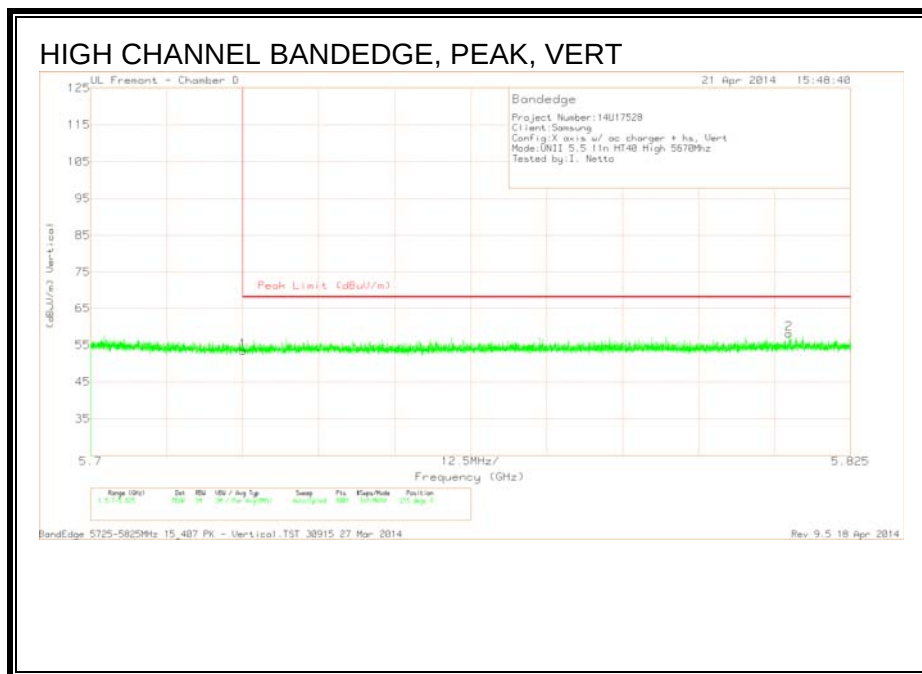
RMS - RMS detection

## AUTHORIZED BANDEDGE (HIGH CHANNEL)



| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T712 (dB/m) | Amp/Cbl/Filtr/Pad (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|------------------------|--------------|----------------------------|---------------------|----------------|----------------|-------------|----------|
| 1      | 5.725           | 35.69                | PK  | 34.2           | -17.6                  | 0            | 52.29                      | 68.2                | -15.91         | 57             | 360         | H        |
| 2      | 5.81            | 39.88                | PK  | 34.3           | -17.5                  | 0            | 56.68                      | 68.2                | -11.52         | 57             | 360         | H        |

PK - Peak detector

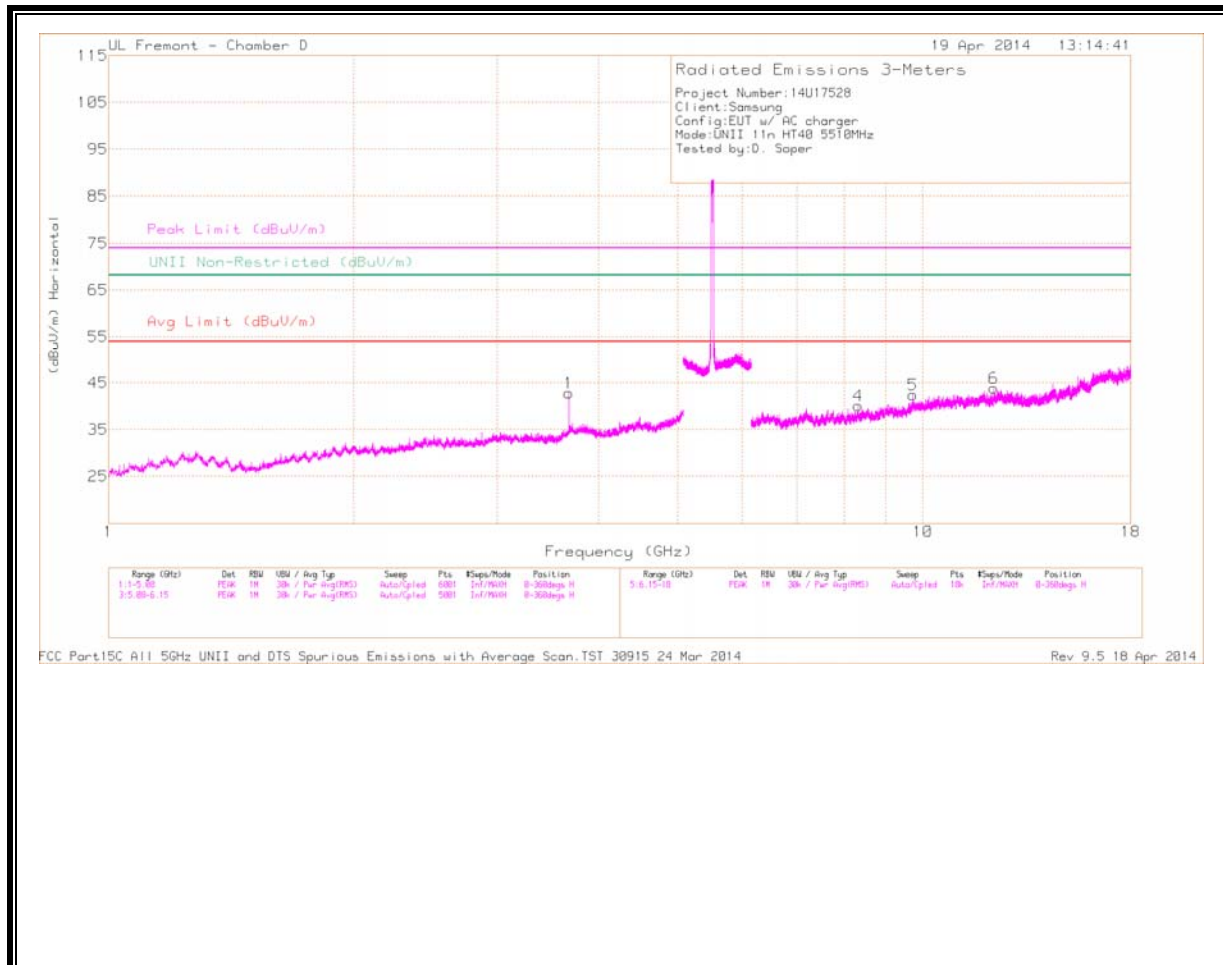


| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T712 (dB/m) | Amp/Cbl/Filtr/Pad (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|------------------------|--------------|----------------------------|---------------------|----------------|----------------|-------------|----------|
| 1      | 5.725           | 36.83                | PK  | 34.2           | -17.6                  | 0            | 53.43                      | 68.2                | -14.77         | 215            | 299         | V        |
| 2      | 5.815           | 41.19                | PK  | 34.3           | -17.4                  | 0            | 58.09                      | 68.2                | -10.11         | 215            | 299         | V        |

PK - Peak detector

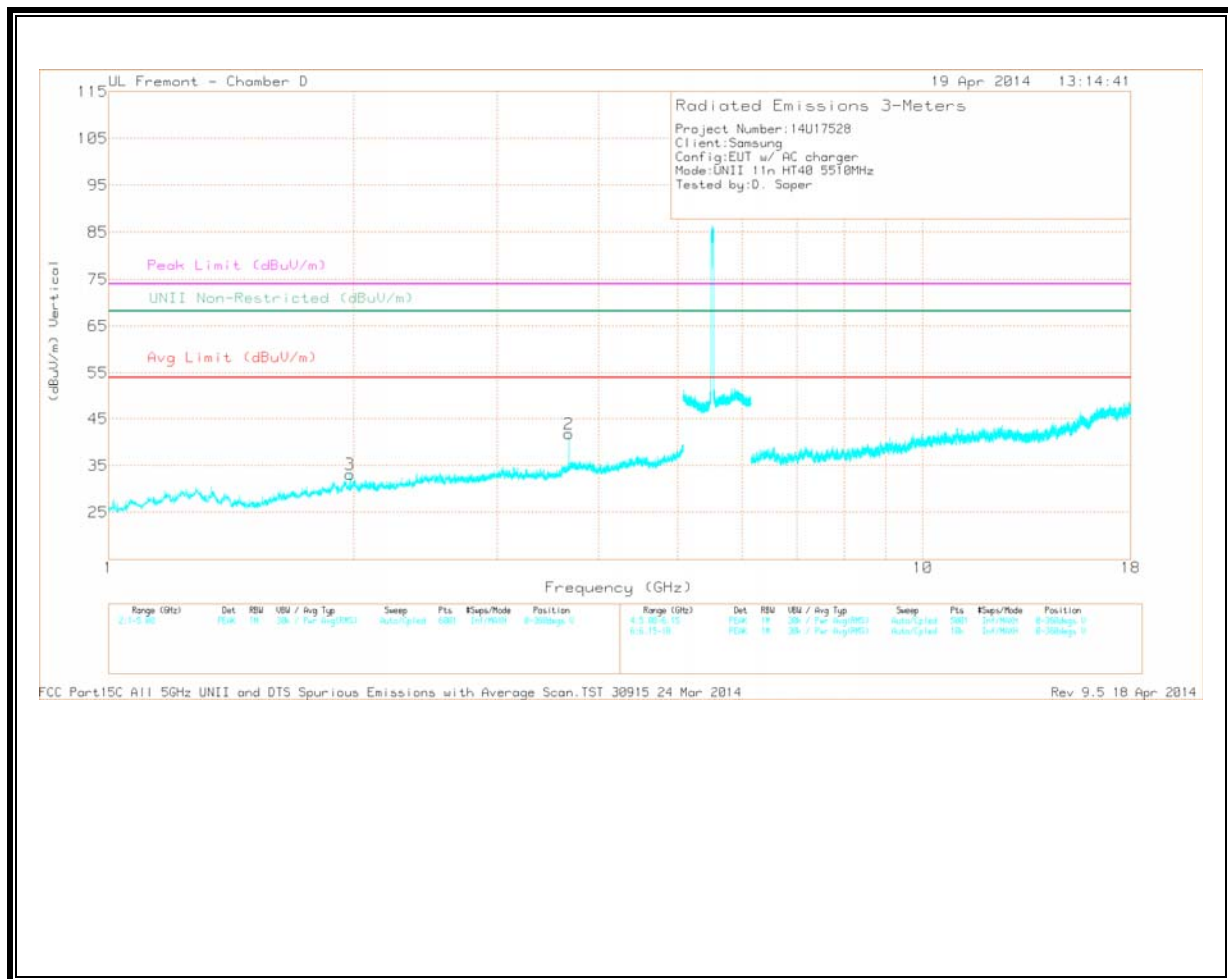
## HARMONICS AND SPURIOUS EMISSIONS

### LOW CHANNEL HORIZONTAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

## LOW CHANNEL DATA

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T712 (dB/m) | AmplCbl/Filt/Pad (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | UNII Non-Restricted (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|-----------------------|--------------|----------------------------|--------------------|-------------|---------------------|----------------|------------------------------|----------------|----------------|-------------|----------|
| 1      | * 3.673         | 38.77                | PK  | 32.6           | -28.5                 | 0            | 42.87                      | -                  | -           | 74                  | -31.13         | -                            | -              | 0-360          | 100         | H        |
| 2      | * 3.673         | 37.69                | PK  | 32.6           | -28.5                 | 0            | 41.79                      | -                  | -           | 74                  | -32.21         | -                            | -              | 0-360          | 201         | V        |
| 4      | * 8.325         | 29.06                | PK  | 35.3           | -24.2                 | 0            | 40.16                      | -                  | -           | 74                  | -33.84         | -                            | -              | 0-360          | 100         | H        |
| 6      | * 12.219        | 27.48                | PK  | 38.4           | -22                   | 0            | 43.88                      | -                  | -           | 74                  | -30.12         | -                            | -              | 0-360          | 201         | H        |
| 3      | 1.98            | 33.17                | PK  | 30.6           | -30.6                 | 0            | 33.17                      | -                  | -           | -                   | -              | 68.2                         | -35.03         | 0-360          | 201         | V        |
| 5      | 9.716           | 27.59                | PK  | 36.4           | -21.5                 | 0            | 42.49                      | -                  | -           | -                   | -              | 68.2                         | -25.71         | 0-360          | 201         | H        |

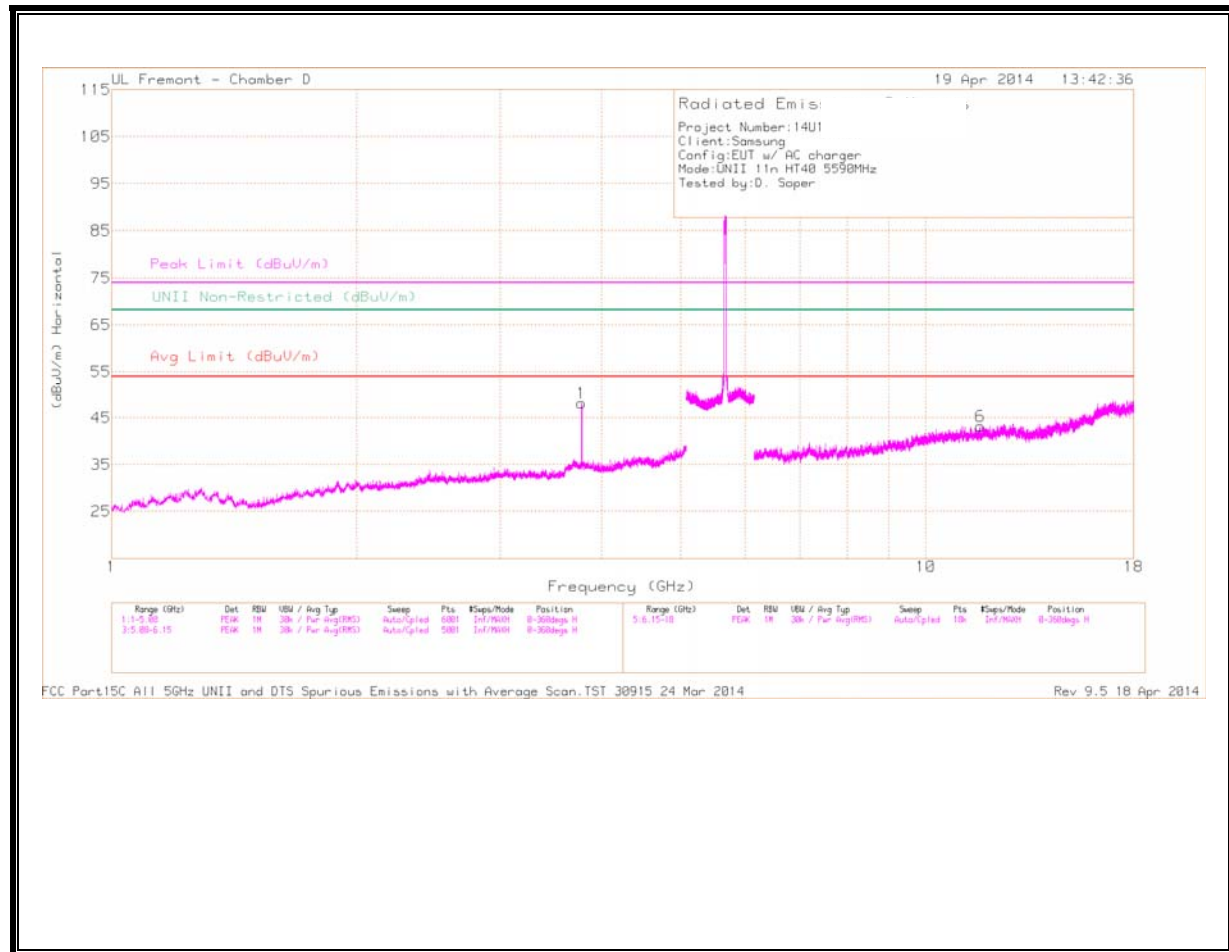
\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector  
Radiated Emissions

| Frequency (GHz) | Meter Reading (dBuV) | Det | AF T712 (dB/m) | AmplCbl/Filt/Pad (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | UNII Non-Restricted (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|-----|----------------|-----------------------|--------------|----------------------------|--------------------|-------------|---------------------|----------------|------------------------------|----------------|----------------|-------------|----------|
| * 3.674         | 42.11                | PK1 | 32.6           | -28.5                 | 0            | 46.21                      | -                  | -           | 74                  | -27.79         | -                            | -              | 210            | 104         | H        |
| * 3.673         | 35.97                | AD1 | 32.6           | -28.5                 | 1.1          | 41.17                      | 54                 | -12.83      | -                   | -              | -                            | -              | 210            | 104         | H        |

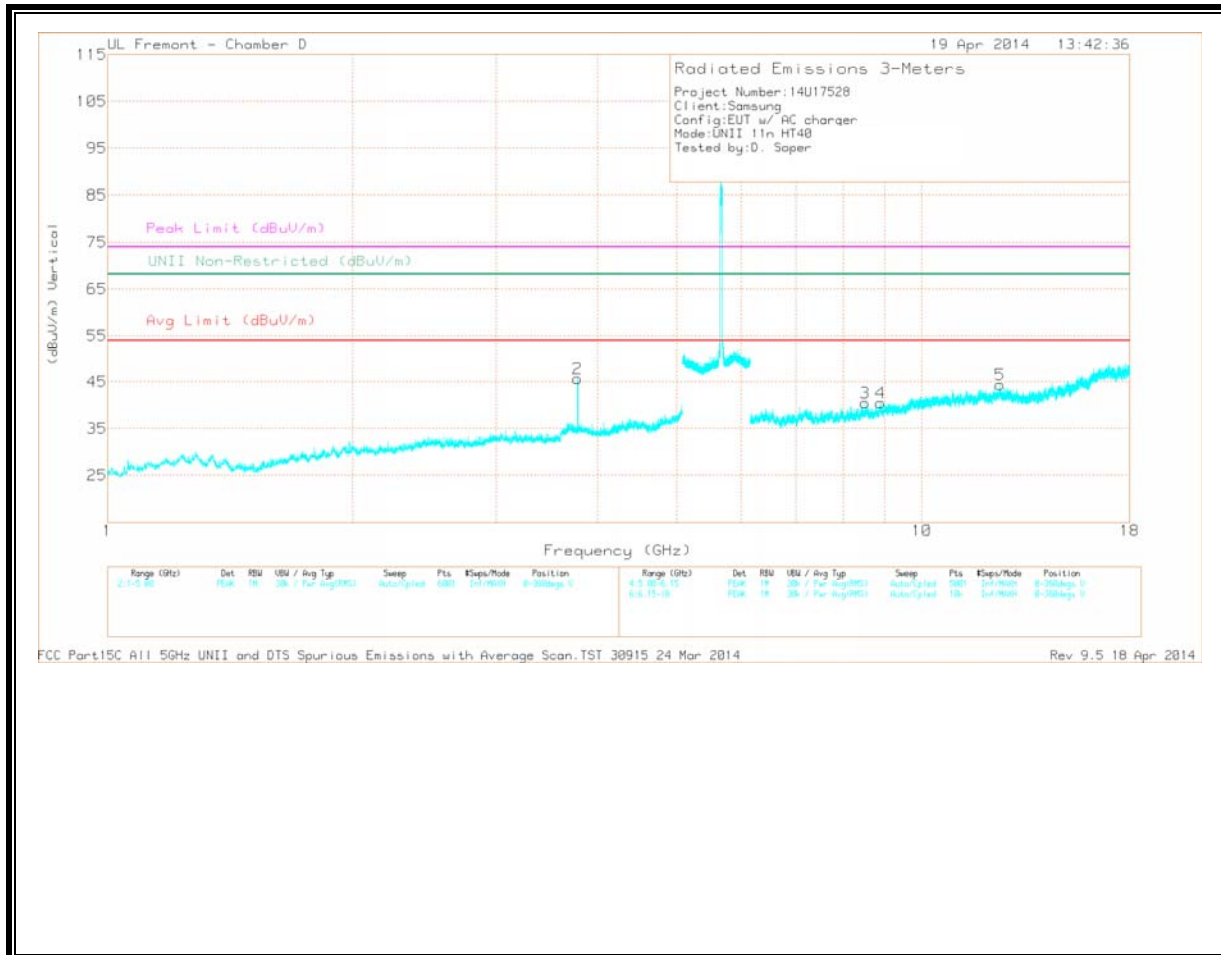
\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

MID CHANNEL  
HORIZONTAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

# MID CHANNEL DATA

| Marker | Frequenc<br>y<br>(GHz) | Meter<br>Reading<br>(dBuV) | Det | AF T712<br>(dB/m) | Ampl/Cbl/<br>Ftr/Pad<br>(dB) | DC Corr<br>(dB) | Correcte<br>d<br>Reading<br>(dBuV/m) | Avg<br>Limit<br>(dBuV/m) | Margin<br>(dB) | Peak<br>Limit<br>(dBuV/m) | PK<br>Margin<br>(dB) | UNII<br>Non-<br>Restrict<br>ed<br>(dBuV/m) | PK<br>Margin<br>(dB) | Azimuth<br>(Degs) | Height<br>(cm) | Polarity |
|--------|------------------------|----------------------------|-----|-------------------|------------------------------|-----------------|--------------------------------------|--------------------------|----------------|---------------------------|----------------------|--------------------------------------------|----------------------|-------------------|----------------|----------|
| 1      | * 3.78                 | 44.28                      | PK  | 32.7              | -28.8                        | 0               | 48.18                                | -                        | -              | 74                        | -25.82               | -                                          | -                    | 0-360             | 100            | H        |
| 2      | * 3.78                 | 41.85                      | PK  | 32.7              | -28.8                        | 0               | 45.75                                | -                        | -              | 74                        | -28.25               | -                                          | -                    | 0-360             | 201            | V        |
| 6      | *<br>11.658            | 27.59                      | PK  | 37.8              | -22.1                        | 0               | 43.29                                | -                        | -              | 74                        | -30.71               | -                                          | -                    | 0-360             | 100            | H        |
| 5      | *<br>12.469            | 27.14                      | PK  | 38.5              | -21.2                        | 0               | 44.44                                | -                        | -              | 74                        | -29.56               | -                                          | -                    | 0-360             | 100            | V        |
| 3      | 8.524                  | 28.47                      | PK  | 35.4              | -23.4                        | 0               | 40.47                                | -                        | -              | -                         | -                    | 68.2                                       | -27.73               | 0-360             | 100            | V        |
| 4      | 8.9                    | 28.1                       | PK  | 35.7              | -23.3                        | 0               | 40.5                                 | -                        | -              | -                         | -                    | 68.2                                       | -27.7                | 0-360             | 100            | V        |

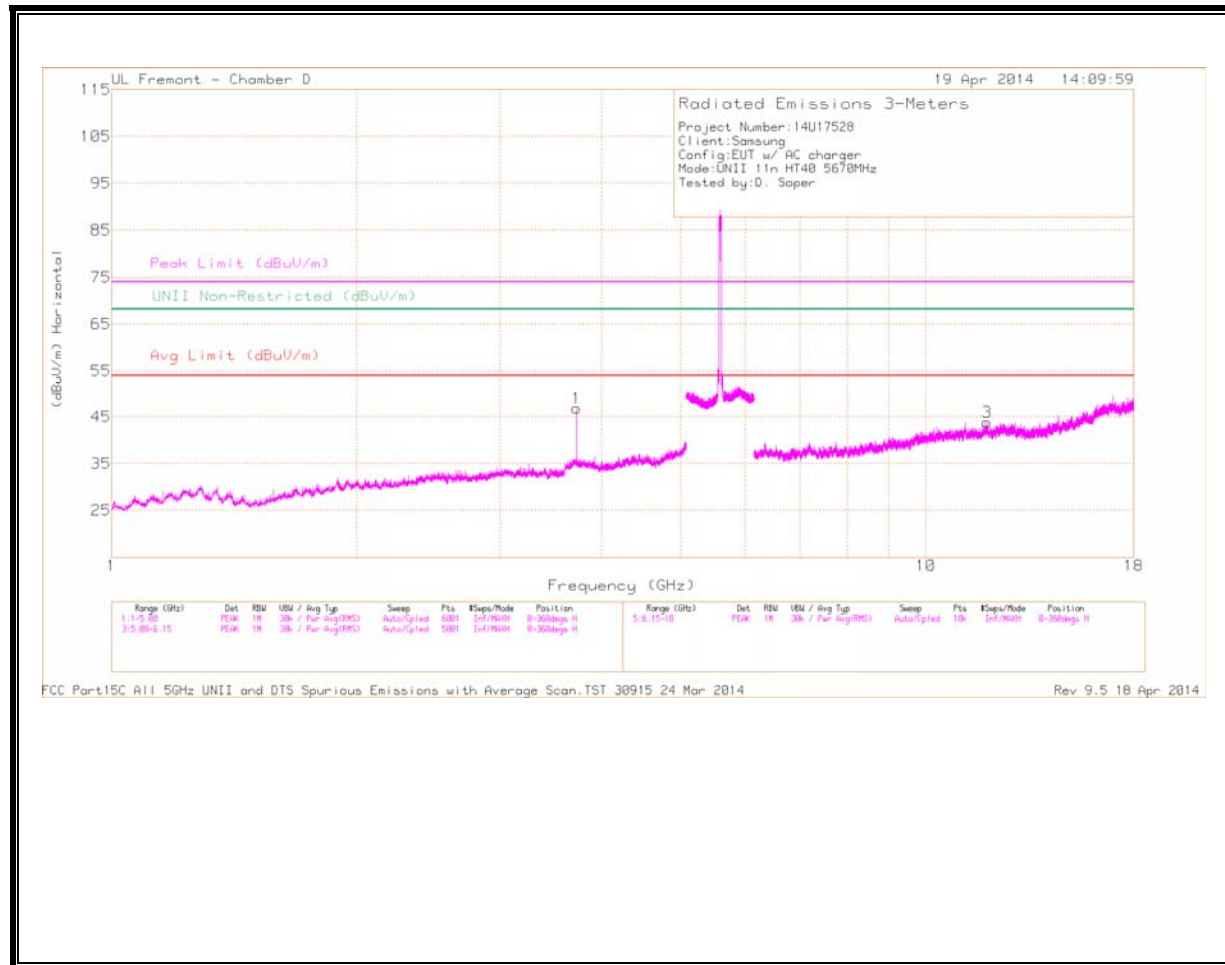
\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector  
Radiated Emissions

| Frequenc<br>y<br>(GHz) | Meter<br>Reading<br>(dBuV) | Det | AF T712<br>(dB/m) | Ampl/Cbl/<br>Ftr/Pad<br>(dB) | DC Corr<br>(dB) | Correcte<br>d<br>Reading<br>(dBuV/m) | Avg Limit<br>(dBuV/m) | Margin<br>(dB) | Peak Limit<br>(dBuV/m) | PK<br>Margin<br>(dB) | UNII Non-<br>Restricted<br>(dBuV/m) | PK<br>Margin<br>(dB) | Azimuth<br>(Degs) | Height<br>(cm) | Polarity |
|------------------------|----------------------------|-----|-------------------|------------------------------|-----------------|--------------------------------------|-----------------------|----------------|------------------------|----------------------|-------------------------------------|----------------------|-------------------|----------------|----------|
| * 3.78                 | 47.26                      | PK1 | 32.7              | -28.8                        | 0               | 51.16                                | -                     | -              | 74                     | -22.84               | -                                   | -                    | 259               | 280            | H        |
| * 3.78                 | 43.64                      | AD1 | 32.7              | -28.8                        | 1.1             | 48.64                                | 54                    | -5.36          | -                      | -                    | -                                   | -                    | 259               | 280            | H        |

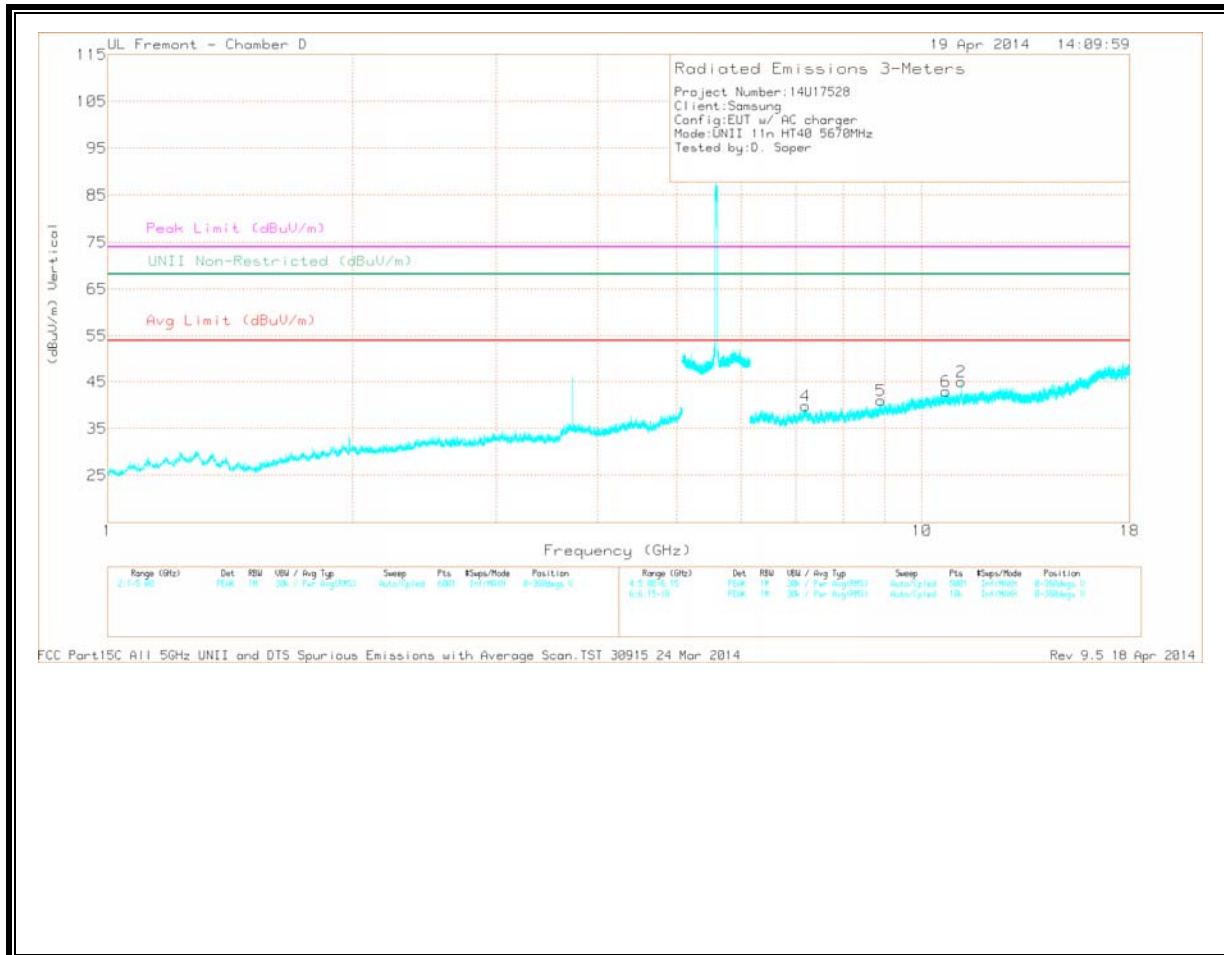
\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

HIGH CHANNEL  
HORIZONTAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

## HIGH CHANNEL DATA

| Marker | Frequenc<br>y<br>(GHz) | Meter<br>Reading<br>(dBuV) | Det | AF T712<br>(dB/m) | Ampl/Cbl/<br>Ftr/Pad<br>(dB) | DC Corr<br>(dB) | Correcte<br>d<br>Reading<br>(dBuV/m) | Avg Limit<br>(dBuV/m) | Margin<br>(dB) | Peak Limit<br>(dBuV/m) | PK<br>Margin<br>(dB) | UNII<br>Non-<br>Restrict<br>ed<br>(dBuV/m) | PK<br>Margin<br>(dB) | Azimuth<br>(Degs) | Height<br>(cm) | Polarity |
|--------|------------------------|----------------------------|-----|-------------------|------------------------------|-----------------|--------------------------------------|-----------------------|----------------|------------------------|----------------------|--------------------------------------------|----------------------|-------------------|----------------|----------|
| 1      | * 3.727                | 42.86                      | PK  | 32.7              | -28.7                        | 0               | 46.86                                | -                     | -              | 74                     | -27.14               | -                                          | -                    | 0-360             | 100            | H        |
| 3      | *<br>11.895            | 27.42                      | PK  | 38.1              | -21.6                        | 0               | 43.92                                | -                     | -              | 74                     | -30.08               | -                                          | -                    | 0-360             | 100            | H        |
| 2      | *<br>11.181            | 28.52                      | PK  | 37.5              | -21                          | 0               | 45.02                                | -                     | -              | 74                     | -28.98               | -                                          | -                    | 0-360             | 201            | V        |
| 6      | *<br>10.706            | 26.68                      | PK  | 37.3              | -21                          | 0               | 42.98                                | -                     | -              | 74                     | -31.02               | -                                          | -                    | 0-360             | 100            | V        |
| 4      | 7.194                  | 28.57                      | PK  | 35.1              | -23.8                        | 0               | 39.87                                | -                     | -              | -                      | -                    | 68.2                                       | -28.33               | 0-360             | 100            | V        |
| 5      | 8.904                  | 28.67                      | PK  | 35.7              | -23.4                        | 0               | 40.97                                | -                     | -              | -                      | -                    | 68.2                                       | -27.23               | 0-360             | 100            | V        |

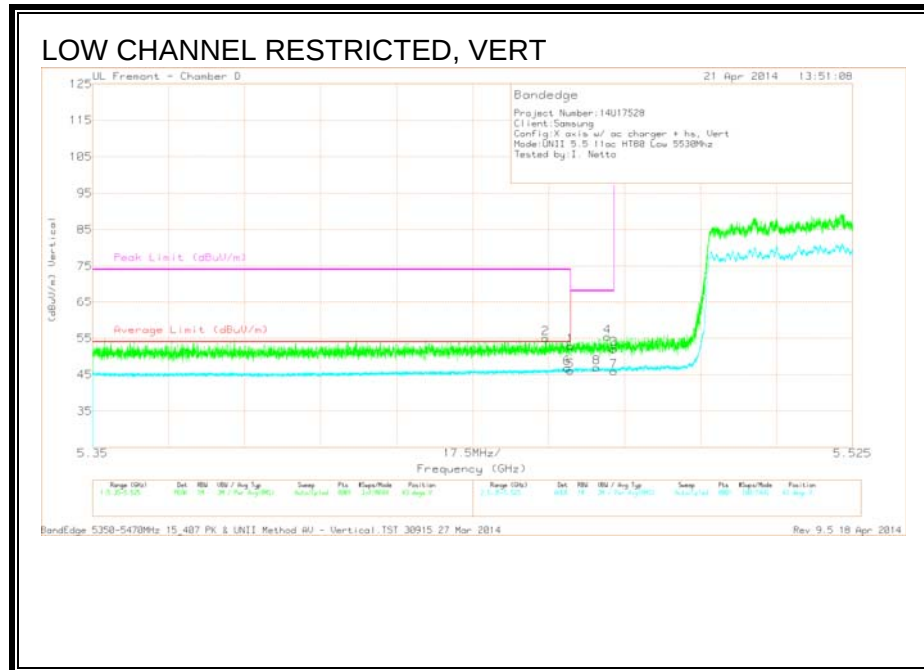
\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector  
Radiated Emissions

| Frequenc<br>y<br>(GHz) | Meter<br>Reading<br>(dBuV) | Det | AF T712<br>(dB/m) | Ampl/Cbl/<br>Ftr/Pad<br>(dB) | DC Corr<br>(dB) | Correcte<br>d<br>Reading<br>(dBuV/m) | Avg Limit<br>(dBuV/m) | Margin<br>(dB) | Peak Limit<br>(dBuV/m) | PK<br>Margin<br>(dB) | UNII Non-<br>Restricted<br>(dBuV/m) | PK<br>Margin<br>(dB) | Azimuth<br>(Degs) | Height<br>(cm) | Polarity |
|------------------------|----------------------------|-----|-------------------|------------------------------|-----------------|--------------------------------------|-----------------------|----------------|------------------------|----------------------|-------------------------------------|----------------------|-------------------|----------------|----------|
| * 3.727                | 47.22                      | PK1 | 32.7              | -28.7                        | 0               | 51.22                                | -                     | -              | 74                     | -22.78               | -                                   | -                    | 260               | 248            | H        |
| * 3.727                | 42.84                      | AD1 | 32.7              | -28.7                        | 1.1             | 47.94                                | 54                    | -6.06          | -                      | -                    | -                                   | -                    | 260               | 248            | H        |

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band





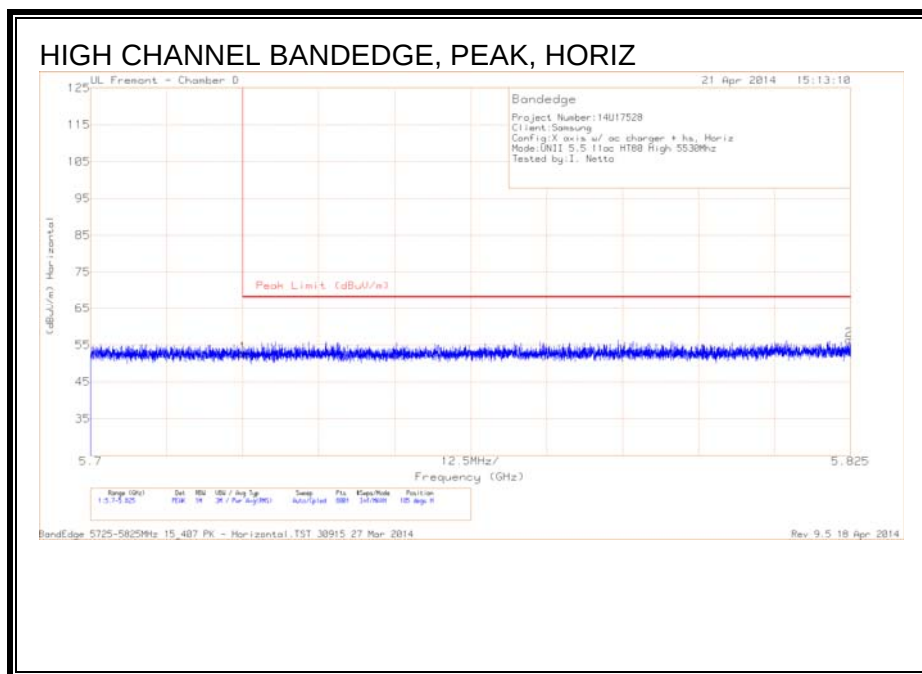
| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T712 (dB/m) | Amp/Cbl/FI tr/Pad (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|------------------------|--------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 5.46          | 36.8                 | PK  | 33.9           | -17.8                  | 0            | 52.9                       | -                      | -           | 74                  | -21.1          | 43             | 370         | V        |
| 2      | * 5.454         | 38.97                | PK  | 33.9           | -17.9                  | 0            | 54.97                      | -                      | -           | 74                  | -19.03         | 43             | 370         | V        |
| 5      | * 5.46          | 28.08                | RMS | 33.9           | -17.8                  | 1.9          | 46.08                      | 54                     | -7.92       | -                   | -              | 43             | 370         | V        |
| 6      | * 5.459         | 28.83                | RMS | 33.9           | -17.8                  | 1.9          | 46.83                      | 54                     | -7.17       | -                   | -              | 43             | 370         | V        |
| 8      | 5.466           | 28.95                | RMS | 33.9           | -17.8                  | 1.9          | 46.95                      | -                      | -           | -                   | -              | 43             | 370         | V        |
| 4      | 5.469           | 39.43                | PK  | 33.9           | -17.9                  | 0            | 55.43                      | -                      | -           | 68.2                | -12.77         | 43             | 370         | V        |
| 3      | 5.47            | 36                   | PK  | 33.9           | -17.9                  | 0            | 52                         | -                      | -           | 68.2                | -16.2          | 43             | 370         | V        |
| 7      | 5.47            | 28.04                | RMS | 33.9           | -17.9                  | 1.9          | 45.94                      | -                      | -           | -                   | -              | 43             | 370         | V        |

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

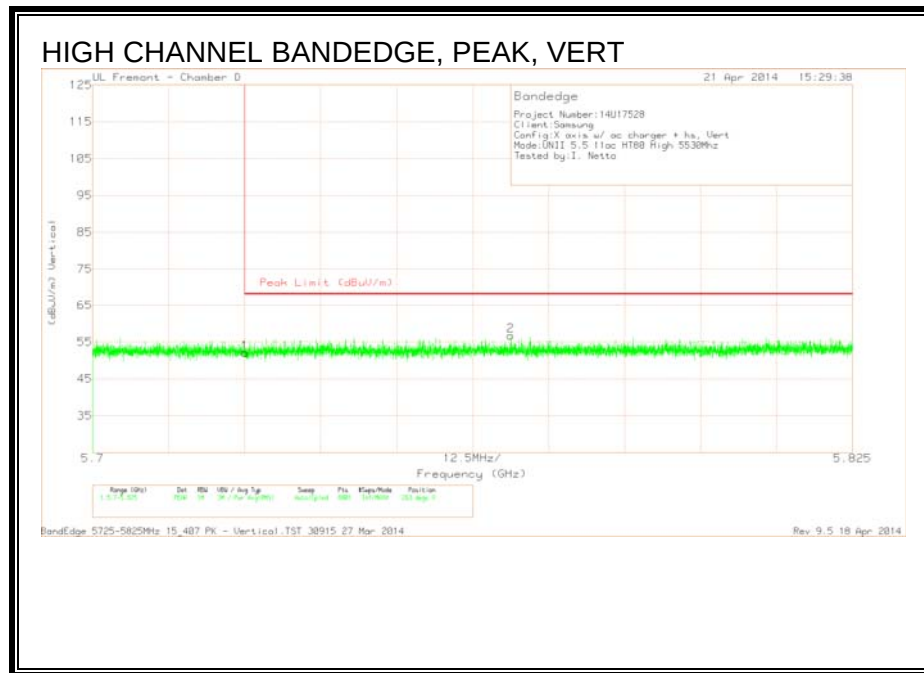
RMS - RMS detection

## AUTHORIZED BANDEDGE (HIGH CHANNEL)



| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T712 (dB/m) | Amp/Cbl/ Filt/Pad (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|------------------------|--------------|----------------------------|---------------------|----------------|----------------|-------------|----------|
| 1      | 5.725           | 35.95                | PK  | 34.2           | -17.6                  | 0            | 52.55                      | 68.2                | -15.65         | 185            | 387         | H        |
| 2      | 5.825           | 39.59                | PK  | 34.3           | -17.5                  | 0            | 56.39                      | 68.2                | -11.81         | 185            | 387         | H        |

PK - Peak detector

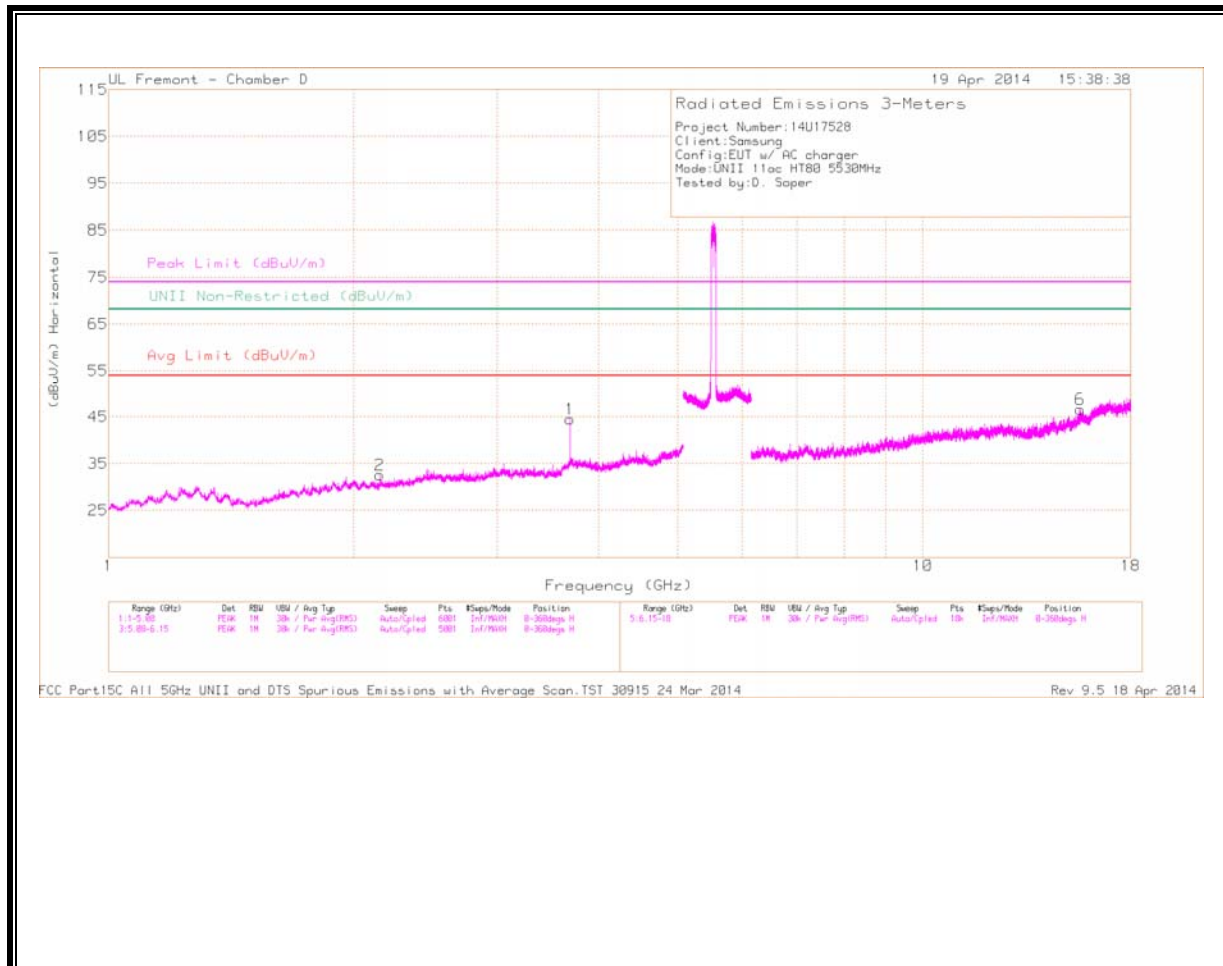


| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T712 (dB/m) | Amp/Cbl/Filtr/Pad (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|------------------------|--------------|----------------------------|---------------------|----------------|----------------|-------------|----------|
| 1      | 5.725           | 35.43                | PK  | 34.2           | -17.6                  | 0            | 52.03                      | 68.2                | -16.17         | 263            | 167         | V        |
| 2      | 5.769           | 40.1                 | PK  | 34.2           | -17.5                  | 0            | 56.8                       | 68.2                | -11.4          | 263            | 167         | V        |

PK - Peak detector

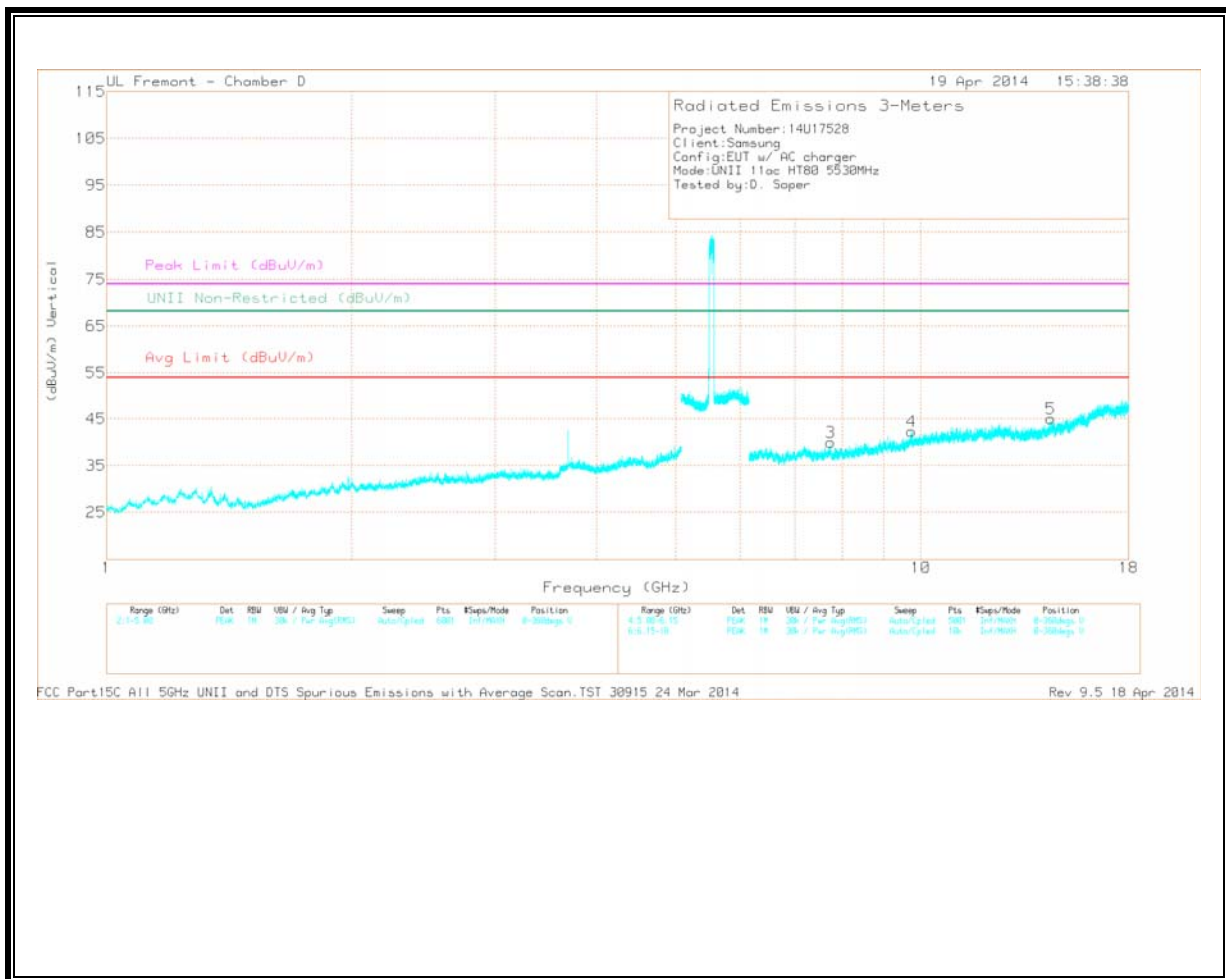
## HARMONICS AND SPURIOUS EMISSIONS

### LOW CHANNEL HORIZONTAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

# LOW CHANNEL DATA

| Marker | Frequenc<br>y<br>(GHz) | Meter<br>Reading<br>(dBuV) | Det | AF T712<br>(dB/m) | Ampl/Cbl/<br>Filt/Pad<br>(dB) | DC Corr<br>(dB) | Correcte<br>d<br>Reading<br>(dBuV/m) | Avg Limit<br>(dBuV/m) | Margin<br>(dB) | Peak Limit<br>(dBuV/m) | PK<br>Margin<br>(dB) | UNII Non-<br>Restrict<br>ed<br>(dBuV/m) | PK<br>Margin<br>(dB) | Azimuth<br>(Degs) | Height<br>(cm) | Polarity |
|--------|------------------------|----------------------------|-----|-------------------|-------------------------------|-----------------|--------------------------------------|-----------------------|----------------|------------------------|----------------------|-----------------------------------------|----------------------|-------------------|----------------|----------|
| 1      | * 3.687                | 40.49                      | PK  | 32.6              | -28.6                         | 0               | 44.49                                | -                     | -              | 74                     | -29.51               | -                                       | -                    | 0-360             | 100            | H        |
| 6      | * 15.608               | 28.17                      | PK  | 39.9              | -21.4                         | 0               | 46.67                                | -                     | -              | 74                     | -27.33               | -                                       | -                    | 0-360             | 100            | H        |
| 2      | 2.154                  | 32.65                      | PK  | 30.6              | -30.7                         | 0               | 32.55                                | -                     | -              | -                      | -                    | 68.2                                    | -35.65               | 0-360             | 100            | H        |
| 3      | 7.751                  | 28.95                      | PK  | 35.1              | -24.1                         | 0               | 39.95                                | -                     | -              | -                      | -                    | 68.2                                    | -28.25               | 0-360             | 201            | V        |
| 4      | 9.732                  | 27.18                      | PK  | 36.4              | -21.3                         | 0               | 42.28                                | -                     | -              | -                      | -                    | 68.2                                    | -25.92               | 0-360             | 201            | V        |
| 5      | 14.449                 | 28.97                      | PK  | 38.6              | -22.5                         | 0               | 45.07                                | -                     | -              | -                      | -                    | 68.2                                    | -23.13               | 0-360             | 100            | V        |

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

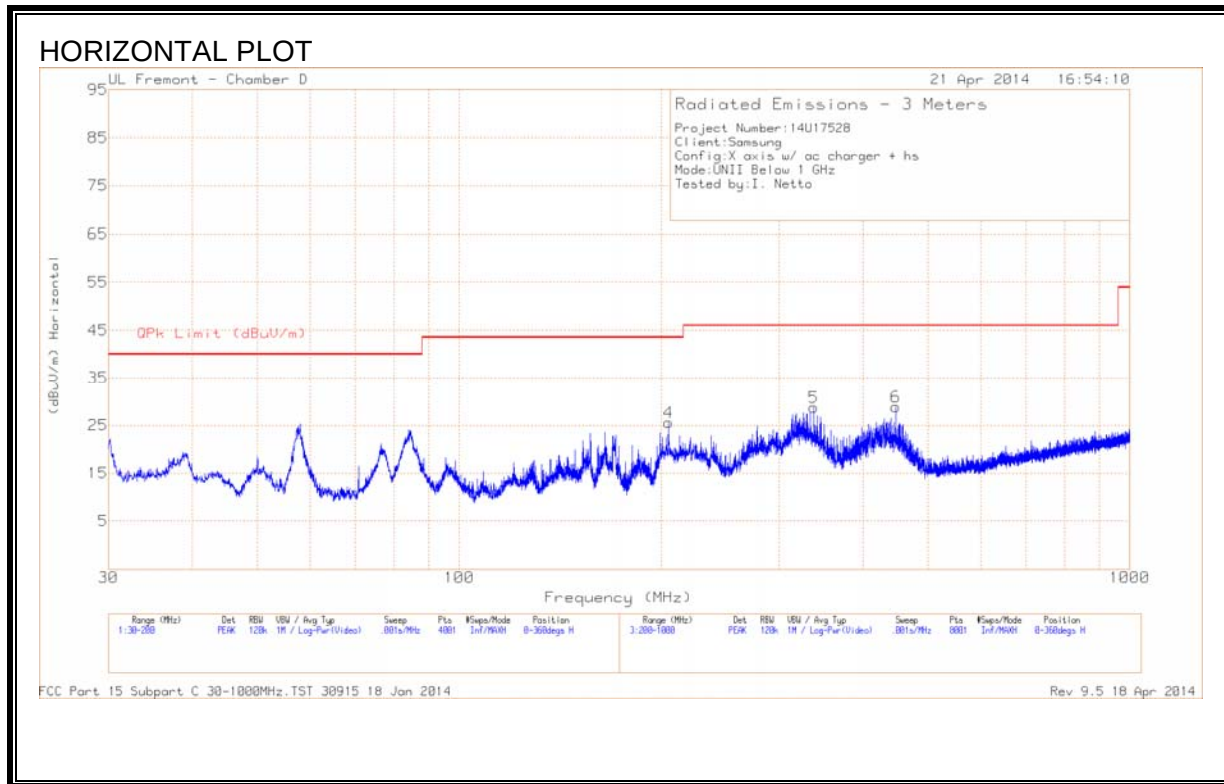
PK - Peak detector  
Radiated Emissions

| Frequenc<br>y<br>(GHz) | Meter<br>Reading<br>(dBuV) | Det | AF T712<br>(dB/m) | Ampl/Cbl/<br>Filt/Pad<br>(dB) | DC Corr<br>(dB) | Correcte<br>d<br>Reading<br>(dBuV/m) | Avg Limit<br>(dBuV/m) | Margin<br>(dB) | Peak Limit<br>(dBuV/m) | PK<br>Margin<br>(dB) | UNII Non-<br>Restricted<br>(dBuV/m) | PK<br>Margin<br>(dB) | Azimuth<br>(Degs) | Height<br>(cm) | Polarity |
|------------------------|----------------------------|-----|-------------------|-------------------------------|-----------------|--------------------------------------|-----------------------|----------------|------------------------|----------------------|-------------------------------------|----------------------|-------------------|----------------|----------|
| * 3.687                | 46.32                      | PK1 | 32.6              | -28.6                         | 0               | 50.32                                | -                     | -              | 74                     | -23.68               | -                                   | -                    | 296               | 291            | H        |
| * 3.687                | 40.75                      | AD1 | 32.6              | -28.6                         | 1.9             | 46.55                                | 54                    | -7.45          | -                      | -                    | -                                   | -                    | 296               | 291            | H        |

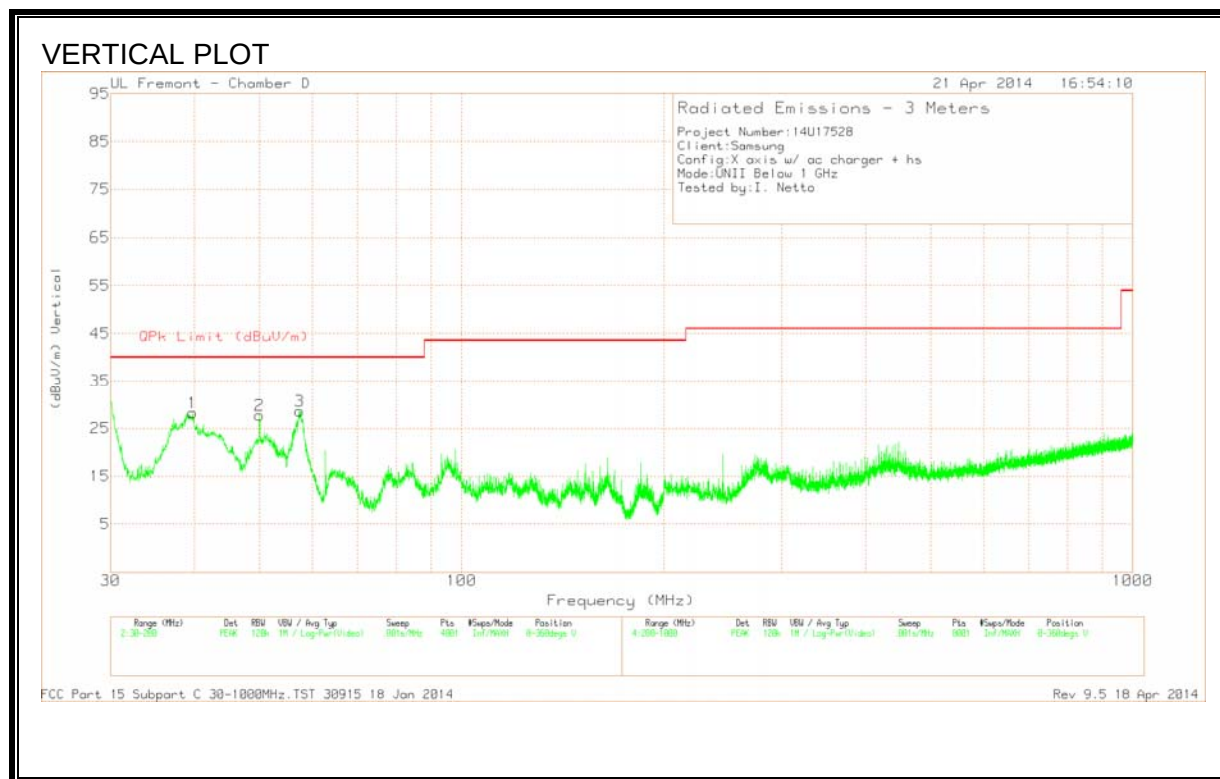
\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

## 11. WORST-CASE BELOW 1 GHz (in the 5.3 GHz Band)

### SPURIOUS EMISSIONS 30 TO 1000 MHz (WORST-CASE CONFIGURATION, HORIZONTAL)



**SPURIOUS EMISSIONS 30 TO 1000 MHz (WORST-CASE CONFIGURATION, VERTICAL)**



# Worst Case Data

| Marker | Frequency (MHz) | Meter Reading (dBuV) | Det | AF T185 (dB/m) | Amp/Cbl (dB) | Corrected Reading (dBuV/m) | QPk Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|--------------|----------------------------|--------------------|-------------|----------------|-------------|----------|
| 1      | 39.775          | 46.54                | PK  | 13.7           | -32          | 28.24                      | 40                 | -11.76      | 0-360          | 100         | V        |
| 2      | 50.0175         | 51.35                | PK  | 7.7            | -31.3        | 27.75                      | 40                 | -12.25      | 0-360          | 100         | V        |
| 3      | 57.3275         | 53.86                | PK  | 6.8            | -32          | 28.66                      | 40                 | -11.34      | 0-360          | 100         | V        |
| 4      | 205.1           | 44.7                 | PK  | 11.4           | -30.5        | 25.6                       | 43.52              | -17.92      | 0-360          | 200         | H        |
| 5      | 337.9           | 44.85                | PK  | 14.1           | -30.2        | 28.75                      | 46.02              | -17.27      | 0-360          | 100         | H        |
| 6      | 448             | 41.99                | PK  | 16.8           | -29.9        | 28.89                      | 46.02              | -17.13      | 0-360          | 200         | H        |

PK - Peak detector