# FCC CFR47 PART 15 SUBPART C

# C2PC CERTIFICATION TEST REPORT

**FOR**
**GSM/WCDMA/LTE Phone + Bluetooth, DTS/UNII a/b/g/n/ac, ANT+ and NFC**

**FCC ID: PY7-PM0816**

**REPORT NUMBER: 15U19770-E4**

**ISSUE DATE: MARCH 18, 2015**

**Prepared for**
**SONY MOBILE COMMUNICATIONS, INC.**
**NYA VATTENTORNET MOBILVAGEN 10**
**LUND 22188**
**SWEDEN**

**Prepared by**
**UL VERIFICATION SERVICES**
**47173 BENICIA STREET**
**FREMONT, CA 94538, U.S.A.**
**TEL: (510) 771-1000**
**FAX: (510) 661-0888**

NVLAP LAB CODE 200065-0

Revision History

| Rev. | Issue Date | Revisions | Revised By |
|---|---|---|---|
| -- | 03/18/15 | Initial Issue | CHOON OOI |

# TABLE OF CONTENTS

# 1. ATTESTATION OF TEST RESULTS

| | |
|---|---|
| **COMPANY NAME:** | SONY MOBILE COMMUNICATIONS, INC. |
| **EUT DESCRIPTION:** | GSM/WCDMA/LTE PHONE + BLUETOOTH, DTS/UNII a/b/g/n/ac, ANT+ and NFC. |
| **SERIAL NUMBER:** | YT910XTJRB (Radiated) |
| **DATE TESTED:** | FEBRUARY 13-MARCH 13, 2015 |

| APPLICABLE STANDARDS | |
|---|---|
| **STANDARD** | **TEST RESULTS** |
| CFR 47 Part 15 Subpart C | 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.

Approved & Released
For UL Verification Services Inc. By:

CHOON OOI
CONSUMER TECHNOLOGY DIVISION
WiSE PROJECT LEAD
UL Verification Services Inc.

Tested By:

STEVEN TRAN
CONSUMER TECHNOLOGY DIVISION
WiSE LAB ENGINEER
UL Verification Services Inc.

# 2. TEST METHODOLOGY

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

# 3. FACILITIES AND ACCREDITATION

The test sites and measurement facilities used to collect data are located at 47173 and 47266 Benicia Street, Fremont, California, USA. Line conducted emissions are measured only at the 47173 address. The following table identifies which facilities were utilized for radiated emission measurements documented in this report. Specific facilities are also identified in the test results sections.

| 47173 Benicia Street | 47266 Benicia Street |
|---|---|
| ☐ Chamber A(IC: 2324B-1) | ☐ Chamber D(IC: 2324B-4) |
| ☒ Chamber B(IC: 2324B-2) | ☐ Chamber E(IC: 2324B-5) |
| ☒ Chamber C(IC: 2324B-3) | ☐ Chamber F(IC: 2324B-6) |
| | ☐ Chamber G(IC: 2324B-7) |
| | ☐ Chamber H(IC: 2324B-8) |

UL Verification Services Inc. is accredited by NVLAP, Laboratory Code 200065-0. The full scope of accreditation can be viewed at http://ts.nist.gov/standards/scopes/2000650.htm

# 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:

Field Strength (dBuV/m) = Measured Voltage (dBuV) + Antenna Factor (dB/m) + Cable Loss (dB) – Preamp Gain (dB)

36.5 dBuV + 18.7 dB/m + 0.6 dB – 26.9 dB = 28.9 dBuV/m

## 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 GSM/WCDMA/LTE PHONE + BLUETOOTH, DTS/UNII a/b/g/n/ac, ANT+ and NFC.

## 5.2. MAXIMUM OUTPUT POWER

Please refer to test report 14U17919-4A (FCC ID: PY7PM-0813).

## 5.3. DESCRIPTION OF AVAILABLE ANTENNAS

The radio utilizes an FPCB antenna, with a maximum gain of -1.6 dBi.

## 5.4. 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 X orientation was worst-case orientation; therefore, all final radiated testing was performed with the EUT in X orientation.

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

802.11b mode: 1 Mbps

802.11g mode: 6 Mbps

802.11n HT20mode: MCS0

## 5.5. DESCRIPTION OF TEST SETUP

**SUPPORT EQUIPMENT**

| Support Equipment List | | | | |
|---|---|---|---|---|
| **Description** | **Manufacturer** | **Model** | **Serial Number** | **FCC ID** |
| AC Adapter | SONY | EP880 | 3514W 01 S08328 | N/A |
| Earphone | SONY | MH410C | N/A | N/A |

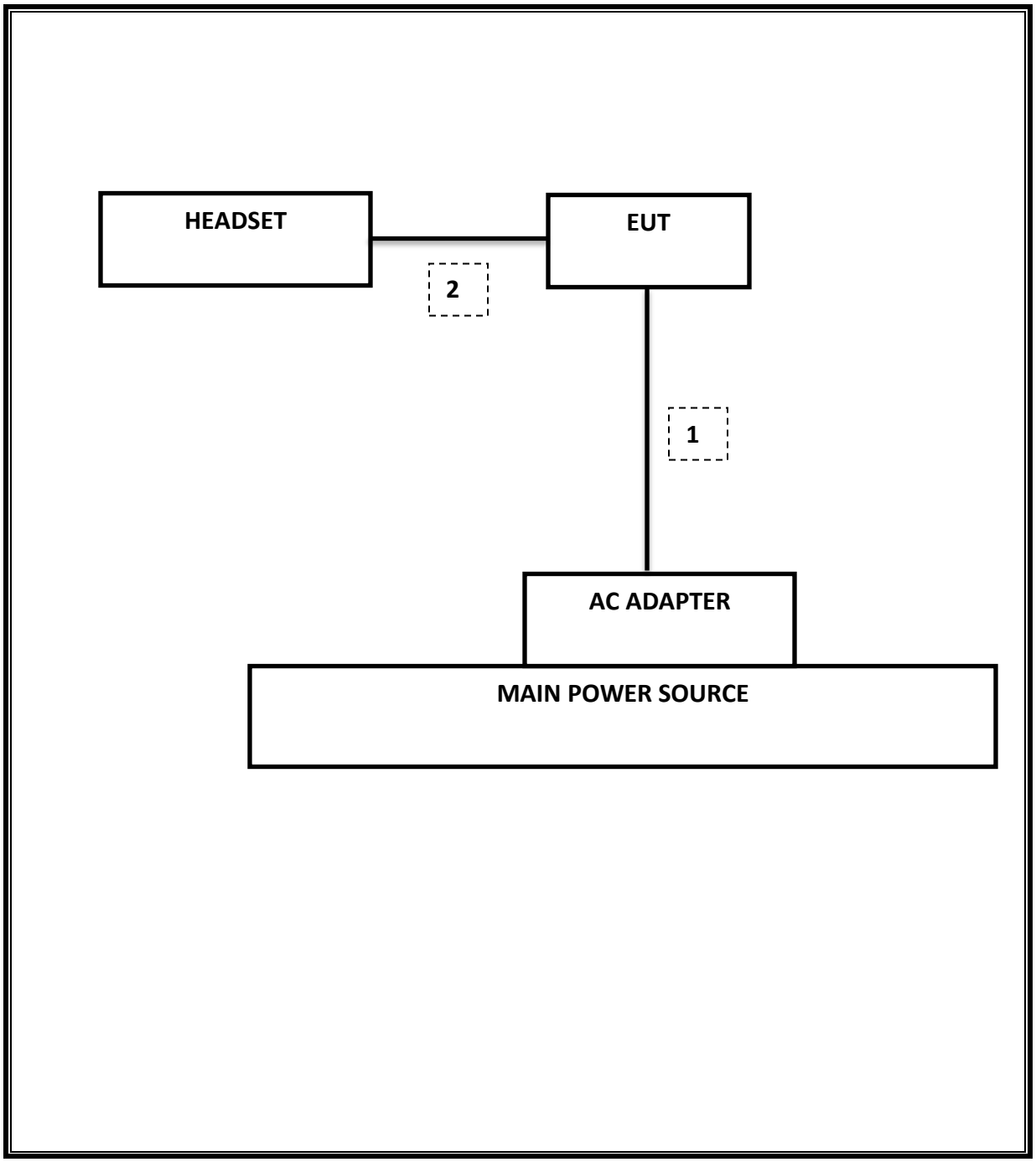
**I/O CABLES**

| 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 | 1m | N/A |

**TEST SETUP**

The EUT is a stand-alone unit during the tests. Test software exercised the radio card.

**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 | 12/20/15 |
| Spectrum Analyzer,9KHz-40GHz | HP | 8564E | C00986 | 04/01/15 |
| EMI Test Receiver, 9 kHz-7 GHz | R & S | ESCI 7 | 100773 | 08/15/15 |
| Peak Power Meter | Agilent / HP | E4416A | C00963 | 12/13/15 |
| Peak / Average Power Sensor | Agilent / HP | E9327A | C00964 | 12/13/15 |
| Antenna, Horn, 18GHz | EMCO | 3115 | C00783 | 10/25/15 |
| Antenna, Horn,18- 26 GHz | ARA | MWH-1826/B | C00946 | 11/12/15 |
| Antenna, Horn, 26-40 GHz | ARA | MWH-2640 | C00891 | 06/28/15 |
| Antenna, Bilog, 30MHz-1 GHz | Sunol Sciences | JB1 | T243 | 12/08/15 |
| RF Preamplifier, 100KHz -> 1300MHz | HP | TBD | C00825 | 06/01/15 |
| RF Preamplifier, 1GHz - 18GHz | Miteq | NSP4000-SP2 | 924343 | 03/23/15 |
| RF Preamplifier, 1GHz - 26.5GHz | HP | 8449B | F00351 | 06/27/15 |
| AC Power Supply, 2,500VA 45-500Hz | Elgar-Ametek | CW2501M | F00013 | CNR |
| RF Preamplifier, 1GHz - 18GHz | Miteq | AFS42-00101800-25-S-42 | 1818466 | 05/09/15 |
| Attenuator / Switch driver | HP | 11713A | F00204 | CNR |
| Low Pass Filter 3GHz | Micro-Tronics | LPS17541 | F00219 | 05/23/15 |
| High Pass Filter 5GHz | Micro-Tronics | HPS17542 | F00222 | 05/22/15 |
| High Pass Filter 6GHz | Micro-Tronics | HPM17543 | F00224 | 05/22/15 |

| Test Software List | | | |
|---|---|---|---|
| **Description** | **Manufacturer** | **Model** | **Version** |
| Radiated Software | UL | UL EMC | Version 9.5, 07/22/14 |
| Conducted Software | UL | UL EMC | Version 9.5, 05/17/14 |
| CLT Software | UL | UL RF | Version 1.0, 02/02/15 |
| Antenna Port Software | UL | UL RF | Version 2.1.1.1, 1/20/15 |

# 7. MEASUREMENT METHODS

KDB 558074 D01 DTS Meas Guidance v03r02:Measurement Procedure AVGPM-G is used for power and AVGPSD-3 is used for power spectral density.

Unwanted emissions within Restricted Bands are measured using traditional radiated procedures.

Band edge emissions within Restricted Bands are measured using RMS with duty cycle factor offset method.

# 8. SUMMARY TABLE

| FCC Part Section | RSS Section(s) | Test Description | Test Limit | Test Condition | Test Result | Worst Case |
|---|---|---|---|---|---|---|
| 15.247 (a)(2) | RSS-210 A8.2(a) | Occupied Band width (6dB) | >500KHz | Conducted | Pass | See Original |
| 2.1051, 15.247 (d) | RSS-210 A8.5 | Band Edge / Conducted Spurious Emission | -20dBc | | Pass | See Original |
| 15.247 | RSS-210 A8.4 | TX conducted output power | <30dBm | | Pass | See Original |
| 15.247 | RSS-210 A8.2 | PSD | <8dBm | | Pass | See Original |
| 15.207 (a) | RSS-GEN 7.2.2 | AC Power Line conducted emissions | Section 10 | Radiated | Pass | See Original |
| 15.205, 15.209 | RSS-210 Clause 2.6, RSS-210 Clause 6 | Radiated Spurious Emission | < 54dBuV/m | | Pass | 41.32 dBuV/m |

# 9. RADIATED TEST RESULTS

## 9.1. LIMITS AND PROCEDURE

**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.

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 for average measurements. Duty cycle factor= 10log (1/x) For this sample B mode = 0dB (duty cycle >98%); G mode = 0dB (duty cycle >98%);; N mode = 0dB (duty cycle >98%).

The spectrum from 30 MHz to 40 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in each applicable band.

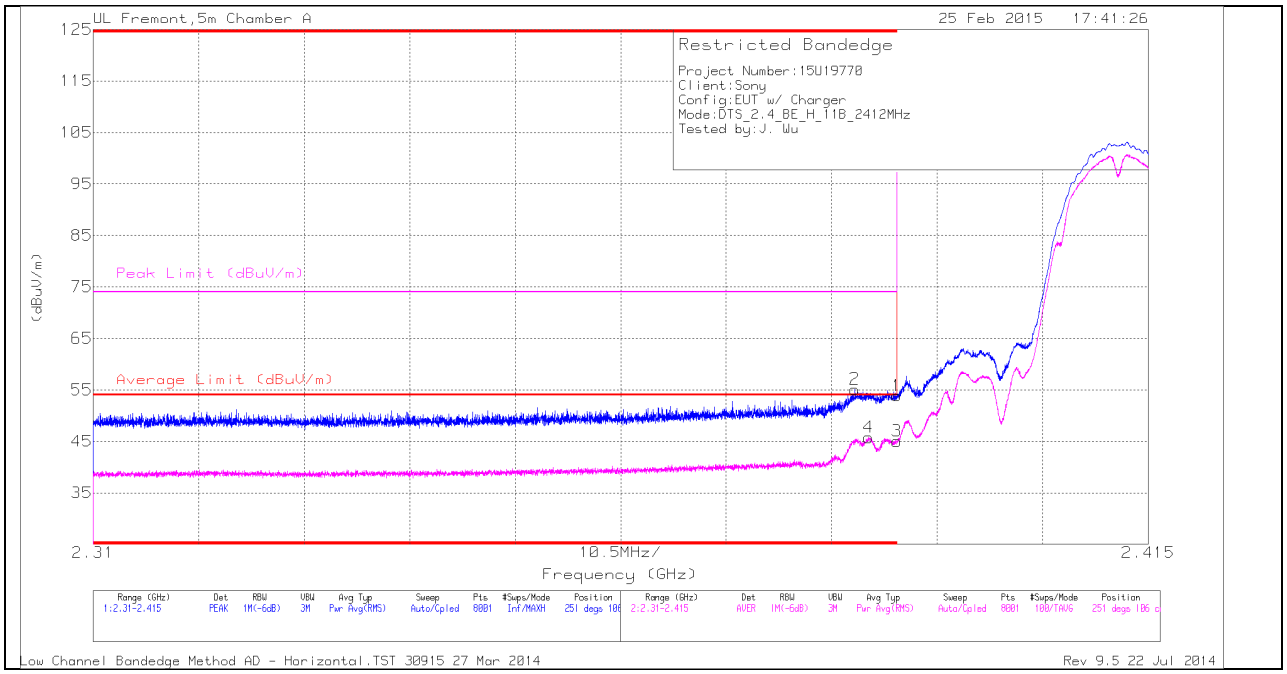
The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized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

# 9.2. TRANSMITTER ABOVE 1 GHz

## 9.2.1. TX ABOVE 1 GHz 802.11b MODE IN THE 2.4 GHz BAND

## RESTRICTED BANDEDGE (LOW CHANNEL)

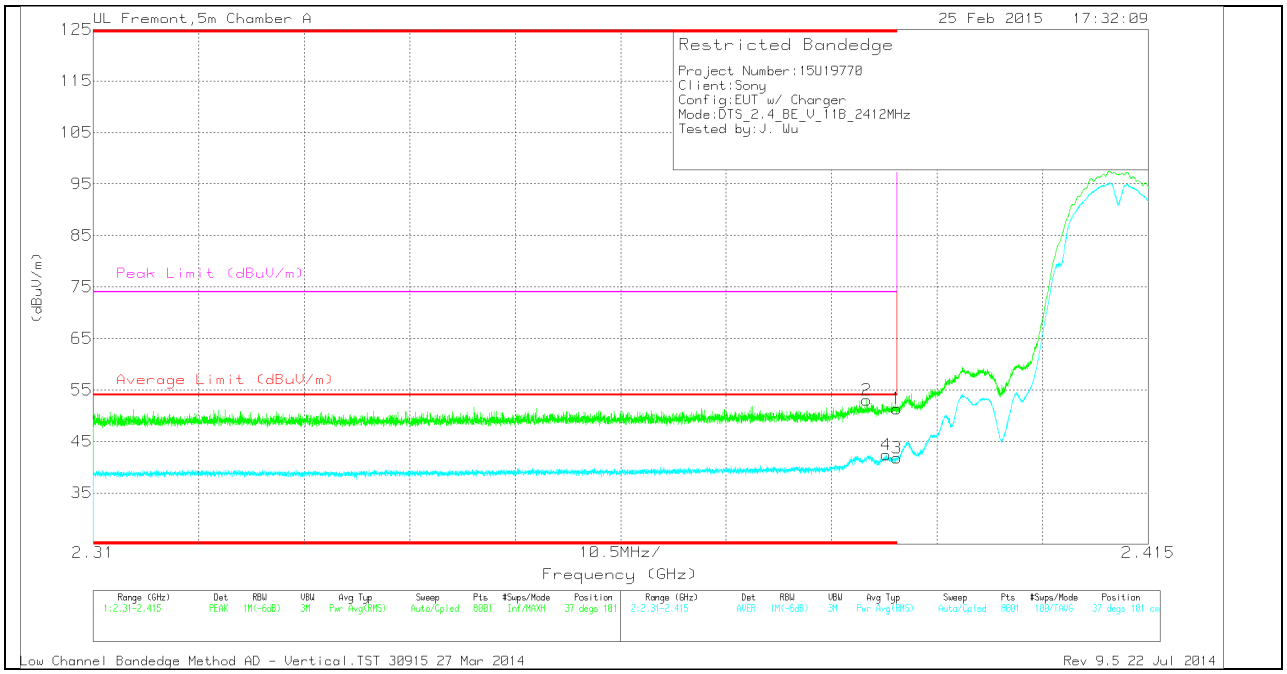
### HORIZONTAL PEAK AND AVERAGE PLOT




### HORIZONTAL DATA

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T711 (dB/m) | Amp/Cbl/Flt r/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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | * 2.386 | 45.23 | PK | 32.1 | -22.2 | 0 | 55.13 | - | - | 74 | -18.87 | 251 | 106 | H |
| 4 | * 2.387 | 35.87 | RMS | 32.1 | -22.2 | 0 | 45.77 | 54 | -8.23 | - | - | 251 | 106 | H |
| 1 | * 2.39 | 43.96 | PK | 32.1 | -22.2 | 0 | 53.86 | - | - | 74 | -20.14 | 251 | 106 | H |
| 3 | * 2.39 | 35.13 | RMS | 32.1 | -22.2 | 0 | 45.03 | 54 | -8.97 | - | - | 251 | 106 | H |

## VERTICAL PEAK AND AVERAGE PLOT

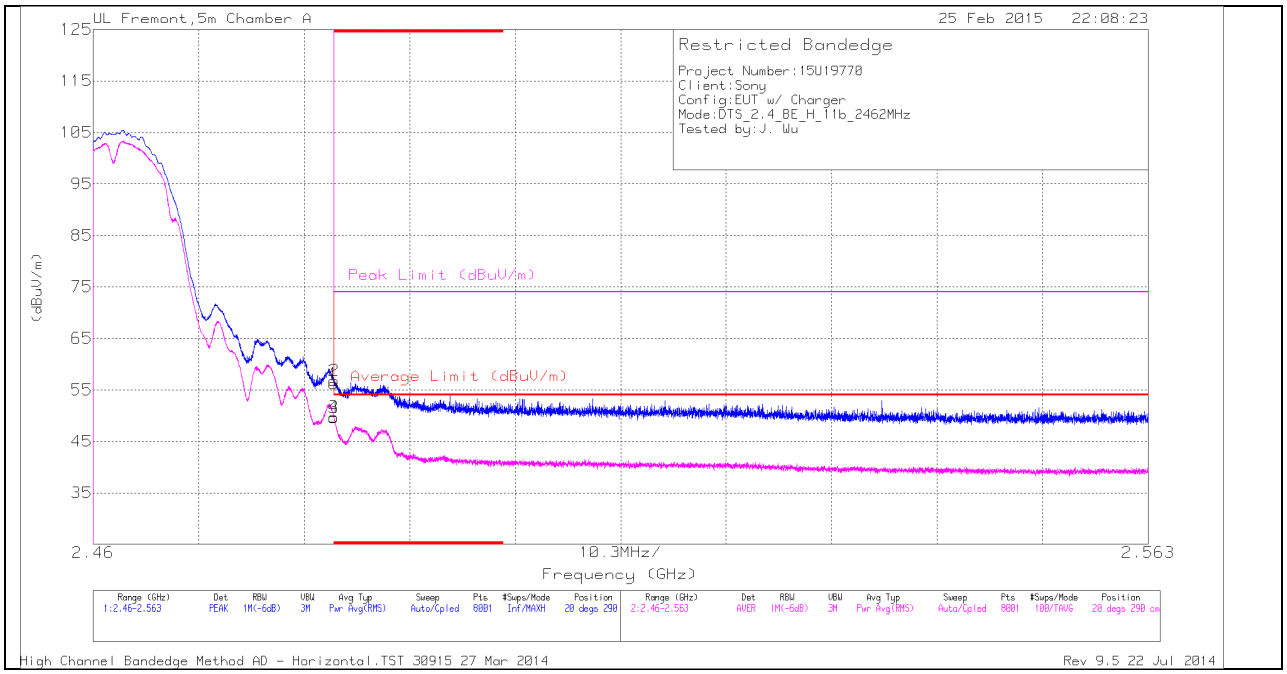



## VERTICAL DATA

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T711 (dB/m) | Amp/Cbl/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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | * 2.387 | 43.1 | PK | 32.1 | -22.2 | 0 | 53 | - | - | 74 | -21 | 37 | 101 | V |
| 4 | * 2.389 | 32.48 | RMS | 32.1 | -22.2 | 0 | 42.38 | 54 | -11.62 | - | - | 37 | 101 | V |
| 1 | * 2.39 | 41.45 | PK | 32.1 | -22.2 | 0 | 51.35 | - | - | 74 | -22.65 | 37 | 101 | V |
| 3 | * 2.39 | 31.84 | RMS | 32.1 | -22.2 | 0 | 41.74 | 54 | -12.26 | - | - | 37 | 101 | V |

# AUTHORIZED BANDEDGE (HIGH CHANNEL)

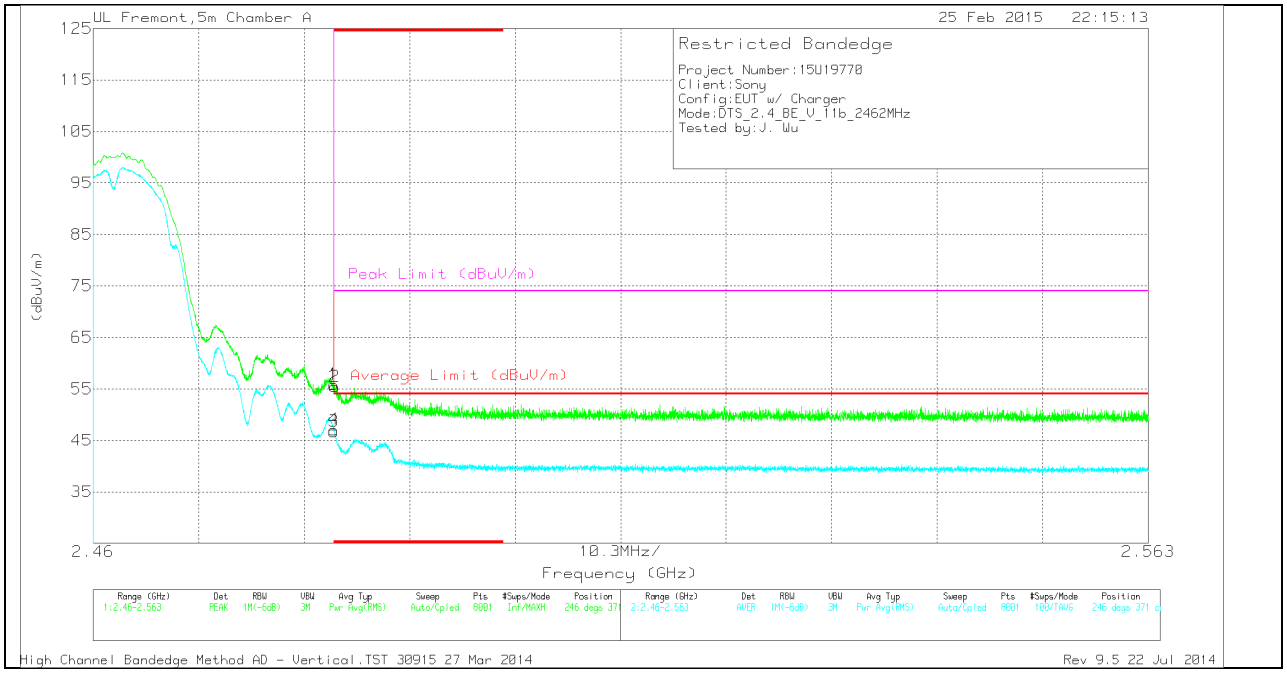
## HORIZONTAL PEAK AND AVERAGE PLOT




## HORIZONTAL DATA

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T711 (dB/m) | Amp/Cbl/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 | * 2.484 | 45.99 | PK | 32.1 | -21.9 | 0 | 56.19 | - | - | 74 | -17.81 | 20 | 290 | H |
| 2 | * 2.484 | 46.61 | PK | 32.1 | -21.9 | 0 | 56.81 | - | - | 74 | -17.19 | 20 | 290 | H |
| 3 | * 2.484 | 39.42 | RMS | 32.1 | -21.9 | 0 | 49.62 | 54 | -4.38 | - | - | 20 | 290 | H |
| 4 | * 2.484 | 39.5 | RMS | 32.1 | -21.9 | 0 | 49.7 | 54 | -4.3 | - | - | 20 | 290 | H |

## VERTICAL PEAK AND AVERAGE PLOT

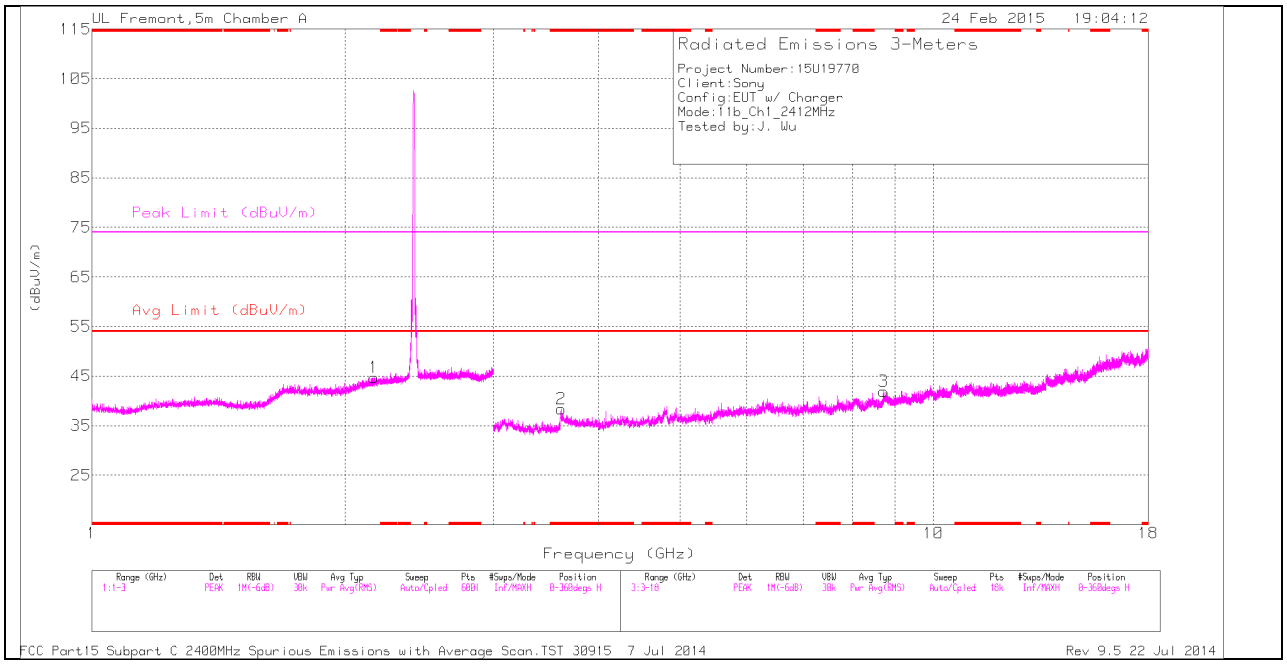



## VERTICAL DATA

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T711 (dB/m) | Amp/Cbl/ Fltr/Pad (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | * 2.484 | 45.67 | PK | 32.1 | -21.9 | 55.87 | - | - | 74 | -18.13 | 246 | 371 | V |
| 2 | * 2.484 | 45.25 | PK | 32.1 | -21.9 | 55.45 | - | - | 74 | -18.55 | 246 | 371 | V |
| 3 | * 2.484 | 36.54 | RMS | 32.1 | -21.9 | 46.74 | 54 | -7.26 | - | - | 246 | 371 | V |
| 4 | * 2.484 | 36.89 | RMS | 32.1 | -21.9 | 47.09 | 54 | -6.91 | - | - | 246 | 371 | V |

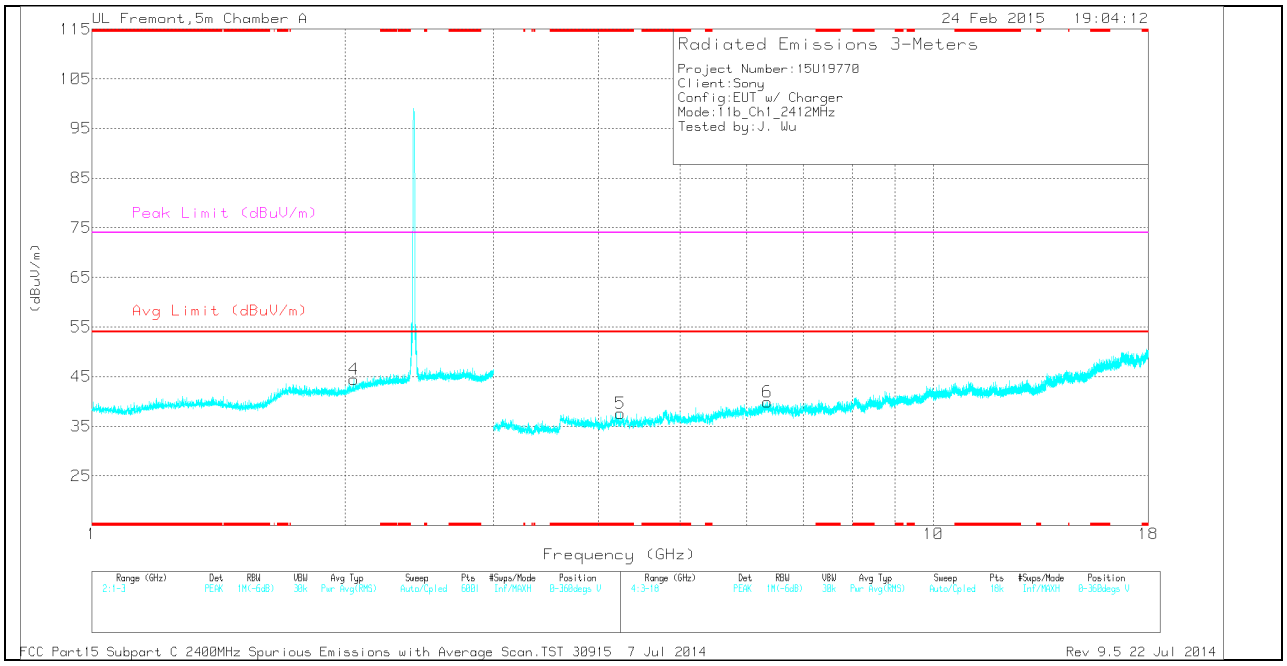
# HARMONICS AND SPURIOUS EMISSIONS

## LOW CHANNEL HORIZONTAL




Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

**LOW CHANNEL VERTICAL**




Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

## LOW CHANNEL DATA

*TRACE MARKERS*

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T711 (dB/m) | Amp/Cbl/Fltr /Pad (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | * 3.609 | 35.21 | PK | 33.2 | -30 | 0 | 38.41 | - | - | 74 | -35.59 | 0-360 | 201 | H |
| 5 | * 4.244 | 33.05 | PK | 33.4 | -28.8 | 0 | 37.65 | - | - | 74 | -36.35 | 0-360 | 100 | V |
| 4 | 2.048 | 36.48 | PK | 30.7 | -22.7 | 0 | 44.48 | - | - | - | - | 0-360 | 100 | V |
| 1 | 2.162 | 35.56 | PK | 31.7 | -22.6 | 0 | 44.66 | - | - | - | - | 0-360 | 201 | H |
| 6 | 6.343 | 30.56 | PK | 36 | -26.7 | 0 | 39.86 | - | - | - | - | 0-360 | 201 | V |
| 3 | 8.731 | 28.79 | PK | 36.5 | -23.4 | 0 | 41.89 | - | - | - | - | 0-360 | 100 | H |

PK - Peak detector

*RADIATED EMISSIONS*

| Frequency (GHz) | Meter Reading (dBuV) | Det | AF T711 (dB/m) | Amp/Cbl/ Fltr/Pad (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| * 3.608 | 40.78 | PK2 | 33.2 | -30 | 0 | 43.98 | - | - | 74 | -30.02 | 6 | 132 | H |
| * 3.607 | 29.5 | MAv1 | 33.2 | -30 | 0 | 32.7 | 54 | -21.3 | - | - | 6 | 132 | H |
| * 4.245 | 39.36 | PK2 | 33.4 | -28.7 | 0 | 44.06 | - | - | 74 | -29.94 | 6 | 100 | V |
| * 4.245 | 28.63 | MAv1 | 33.4 | -28.7 | 0 | 33.33 | 54 | -20.67 | - | - | 6 | 100 | V |

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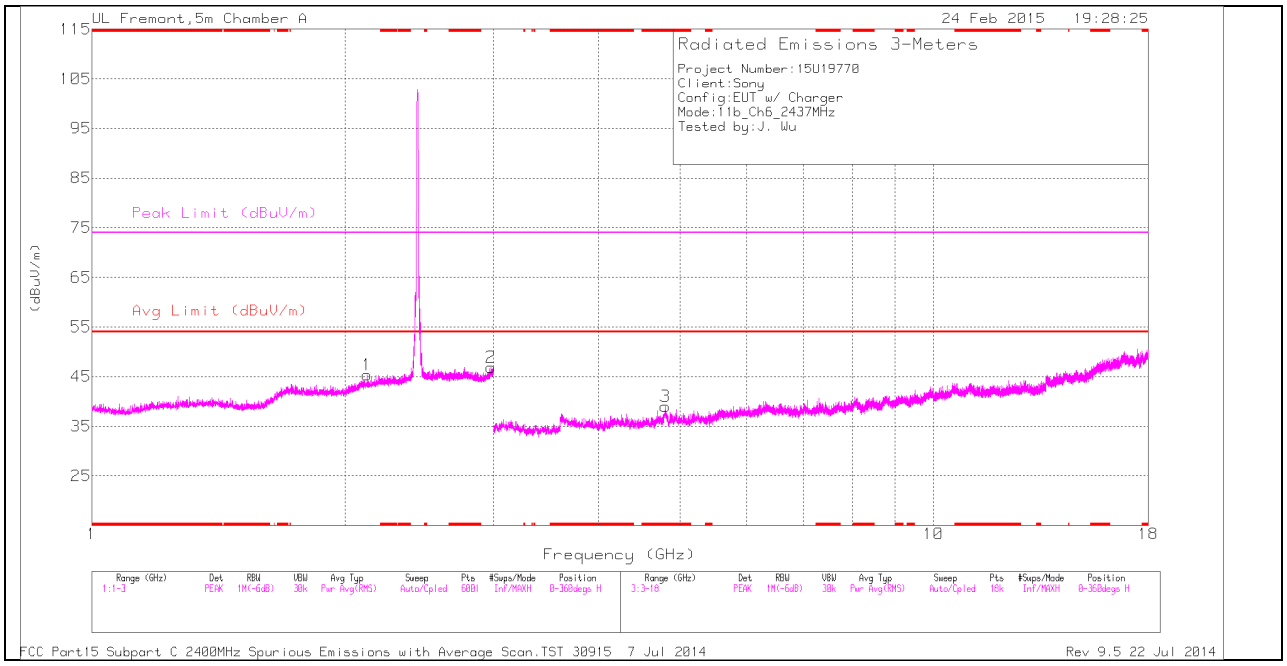
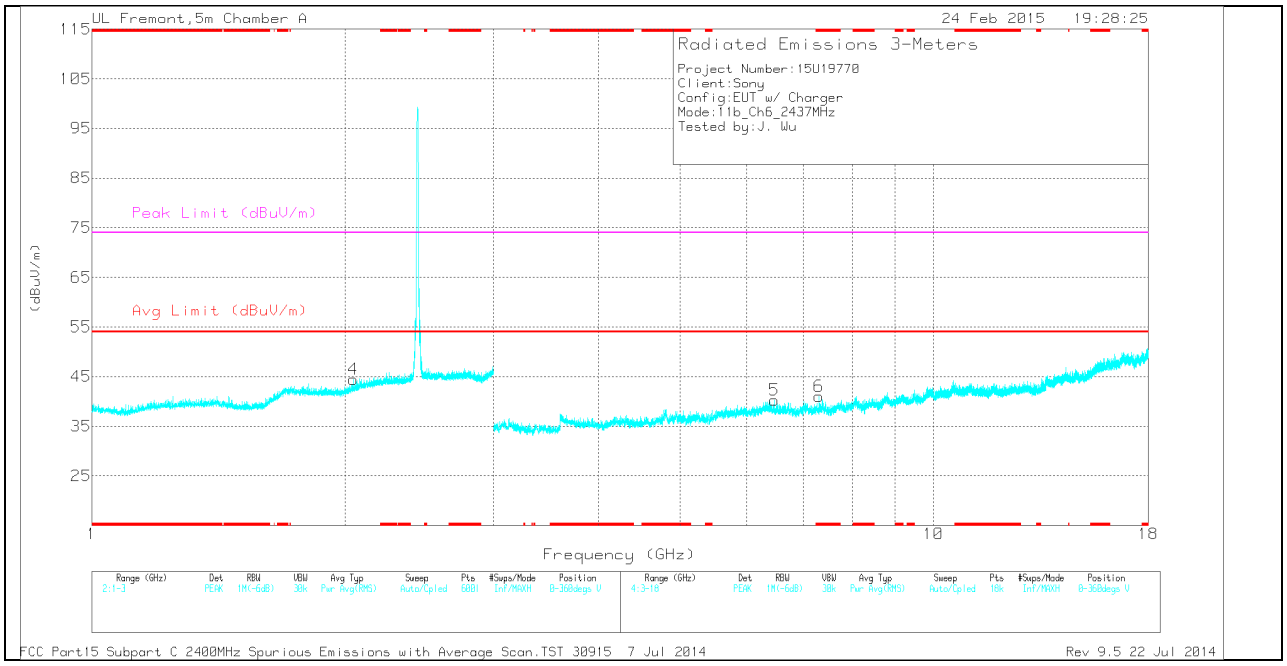
**MID CHANNEL HORIZONTAL**




Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

**MID CHANNEL VERTICAL**




Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

## MID CHANNEL DATA

*TRACE MARKERS*

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T711 (dB/m) | Amp/Cbl/Fltr /Pad (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | * 4.801 | 33.35 | PK | 34 | -28.4 | 0 | 38.95 | - | - | 74 | -35.05 | 0-360 | 201 | H |
| 6 | * 7.31 | 30.66 | PK | 35.6 | -25.2 | 0 | 41.06 | - | - | 74 | -32.94 | 0-360 | 201 | V |
| 4 | 2.043 | 36.66 | PK | 30.6 | -22.8 | 0 | 44.46 | - | - | - | - | 0-360 | 100 | V |
| 1 | 2.123 | 36.68 | PK | 31.4 | -22.7 | 0 | 45.38 | - | - | - | - | 0-360 | 201 | H |
| 2 | 2.979 | 35.66 | PK | 32.6 | -21.4 | 0 | 46.86 | - | - | - | - | 0-360 | 201 | H |
| 5 | 6.468 | 32.12 | PK | 35.9 | -27.8 | 0 | 40.22 | - | - | - | - | 0-360 | 201 | V |

PK - Peak detector

*RADIATED EMISSIONS*

| Frequency (GHz) | Meter Reading (dBuV) | Det | AF T711 (dB/m) | Amp/Cbl/ Fltr/Pad (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| * 4.8 | 40.63 | PK2 | 34 | -28.4 | 0 | 46.23 | - | - | 74 | -27.77 | 135 | 147 | H |
| * 4.799 | 29.17 | MAv1 | 34 | -28.4 | 0 | 34.77 | 54 | -19.23 | - | - | 135 | 147 | H |
| * 7.311 | 36.23 | PK2 | 35.6 | -25.1 | 0 | 46.73 | - | - | 74 | -27.27 | 316 | 279 | V |
| * 7.311 | 25.25 | MAv1 | 35.6 | -25.1 | 0 | 35.75 | 54 | -18.25 | - | - | 316 | 279 | V |

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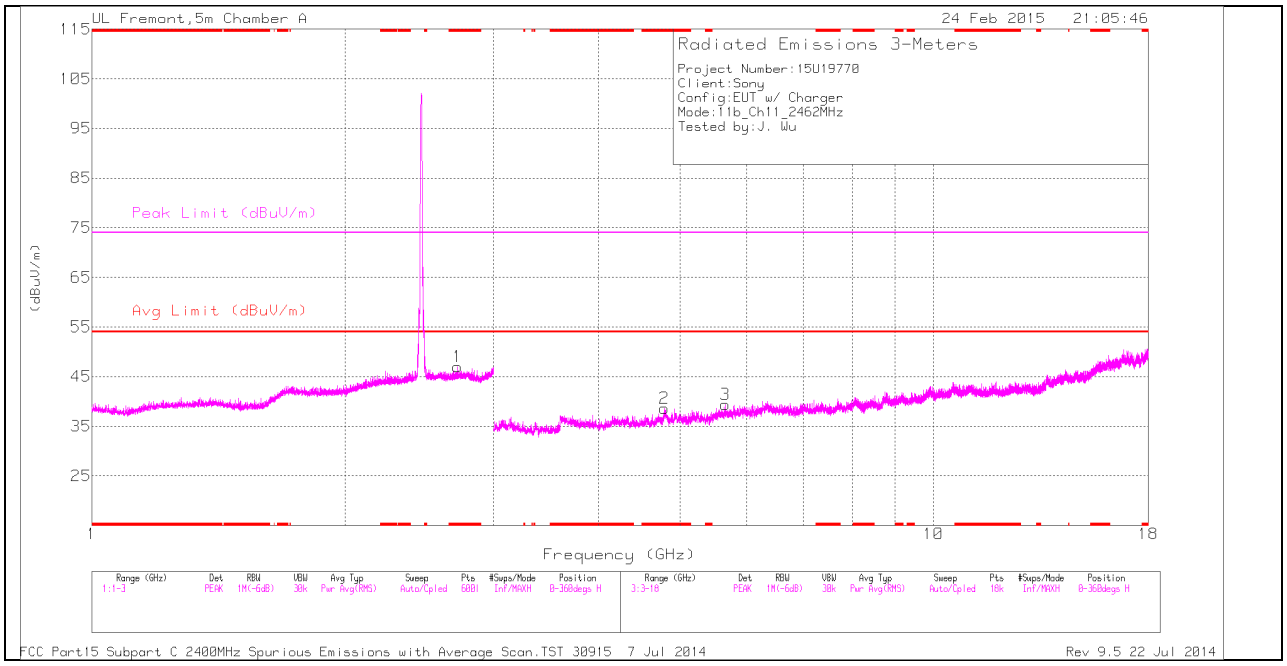
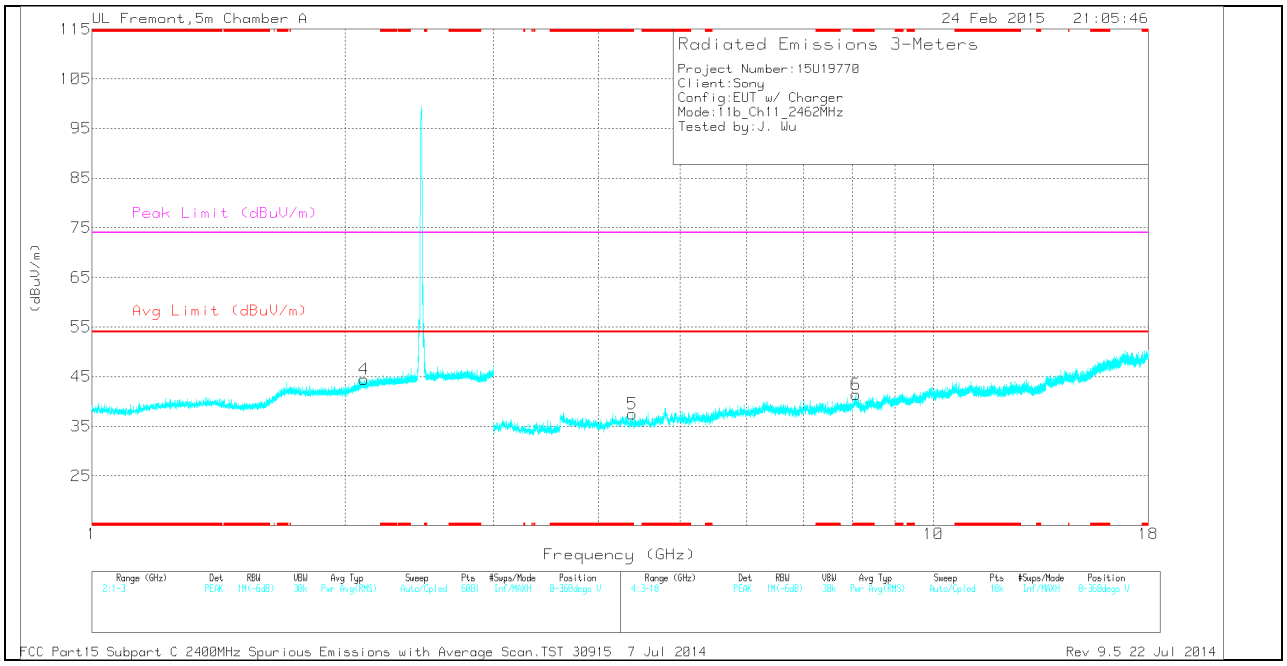
**HIGH CHANNEL HORIZONTAL**




Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

**HIGH CHANNEL VERTICAL**




Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

## HIGH CHANNEL DATA

*TRACE MARKERS*

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T711 (dB/m) | Amp/Cbl/Fltr /Pad (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | * 2.722 | 36.45 | PK | 32.4 | -21.8 | 0 | 47.05 | - | - | 74 | -26.95 | 0-360 | 100 | H |
| 2 | * 4.787 | 33.25 | PK | 34 | -28.6 | 0 | 38.65 | - | - | 74 | -35.35 | 0-360 | 100 | H |
| 5 | * 4.387 | 33.7 | PK | 33.5 | -29.7 | 0 | 37.5 | - | - | 74 | -36.5 | 0-360 | 201 | V |
| 6 | * 8.096 | 28.86 | PK | 36 | -23.4 | 0 | 41.46 | - | - | 74 | -32.54 | 0-360 | 100 | V |
| 4 | 2.106 | 36.01 | PK | 31.2 | -22.7 | 0 | 44.51 | - | - | - | - | 0-360 | 100 | V |
| 3 | 5.655 | 32.15 | PK | 35 | -27.8 | 0 | 39.35 | - | - | - | - | 0-360 | 100 | H |

PK - Peak detector

*RADIATED EMISSIONS*

| Frequency (GHz) | Meter Reading (dBuV) | Det | AF T711 (dB/m) | Amp/Cbl/ Fltr/Pad (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| * 2.721 | 42.33 | PK2 | 32.4 | -21.8 | 0 | 52.93 | - | - | 74 | -21.07 | 67 | 316 | H |
| * 2.72 | 30.72 | MAv1 | 32.4 | -21.8 | 0 | 41.32 | 54 | -12.68 | - | - | 67 | 316 | H |
| * 4.789 | 40.08 | PK2 | 34 | -28.5 | 0 | 45.58 | - | - | 74 | -28.42 | 279 | 326 | H |
| * 4.787 | 28.47 | MAv1 | 34 | -28.6 | 0 | 33.87 | 54 | -20.13 | - | - | 279 | 326 | H |
| * 4.386 | 40.02 | PK2 | 33.5 | -29.7 | 0 | 43.82 | - | - | 74 | -30.18 | 279 | 200 | V |
| * 4.388 | 29.59 | MAv1 | 33.5 | -29.7 | 0 | 33.39 | 54 | -20.61 | - | - | 279 | 200 | V |
| * 8.094 | 36.12 | PK2 | 36 | -23.4 | 0 | 48.72 | - | - | 74 | -25.28 | 144 | 344 | V |
| * 8.095 | 24.17 | MAv1 | 36 | -23.4 | 0 | 36.77 | 54 | -17.23 | - | - | 144 | 344 | V |

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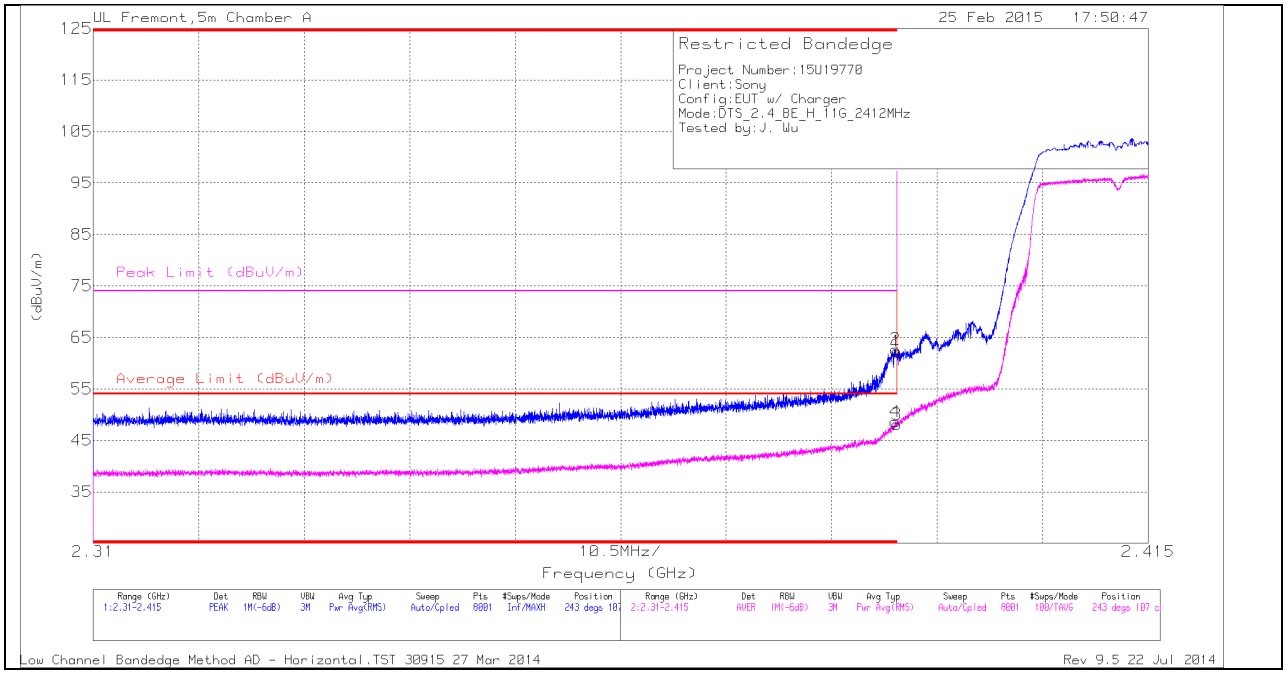
## 9.2.2. TX ABOVE 1 GHz 802.11g MODE IN THE 2.4 GHz BAND

## RESTRICTED BANDEDGE (LOW CHANNEL)

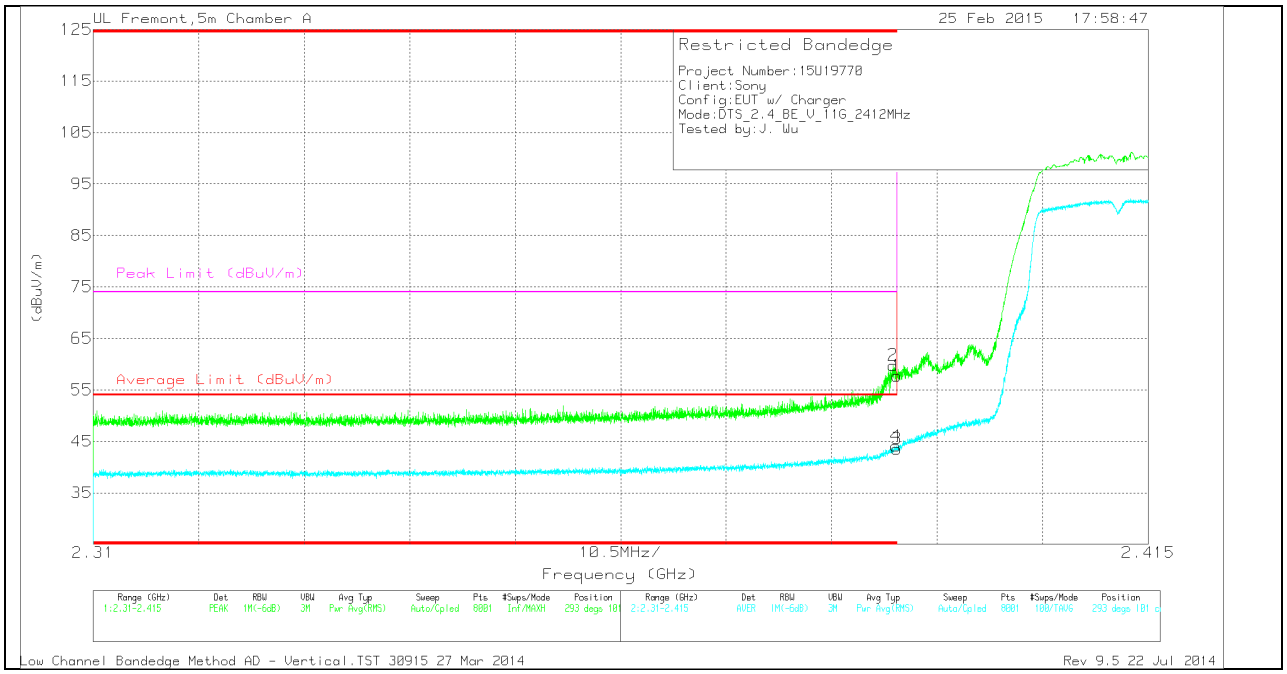
### HORIZONTAL PEAK AND AVERAGE PLOT




### HORIZONTAL DATA

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T711 (dB/m) | Amp/Cbl/Flt r/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 | * 2.39 | 52.41 | PK | 32.1 | -22.2 | 0 | 62.31 | - | - | 74 | -11.69 | 243 | 107 | H |
| 2 | * 2.39 | 52.78 | PK | 32.1 | -22.2 | 0 | 62.68 | - | - | 74 | -11.32 | 243 | 107 | H |
| 3 | * 2.39 | 38.22 | RMS | 32.1 | -22.2 | 0 | 48.12 | 54 | -5.88 | - | - | 243 | 107 | H |
| 4 | * 2.39 | 38.7 | RMS | 32.1 | -22.2 | 0 | 48.6 | 54 | -5.4 | - | - | 243 | 107 | H |

## VERTICAL PEAK AND AVERAGE PLOT

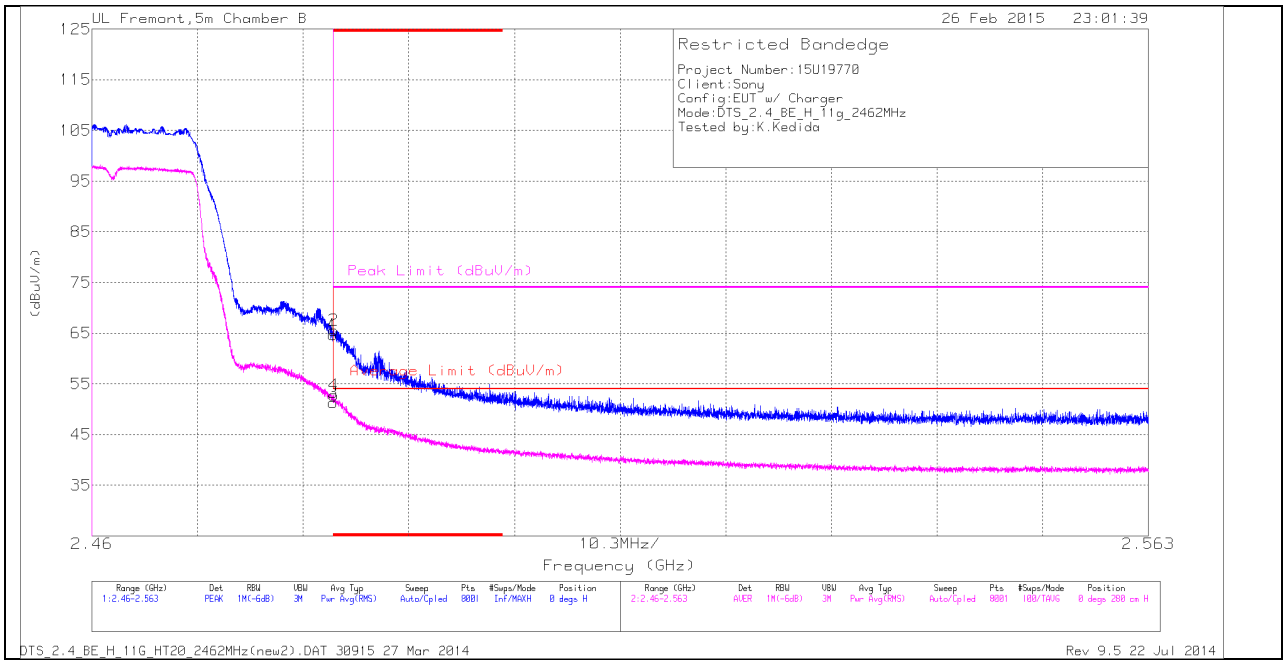



## VERTICAL DATA

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T711 (dB/m) | Amp/Cbl/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 | * 2.39 | 47.84 | PK | 32.1 | -22.2 | 0 | 57.74 | - | - | 74 | -16.26 | 293 | 101 | V |
| 2 | * 2.39 | 49.87 | PK | 32.1 | -22.2 | 0 | 59.77 | - | - | 74 | -14.23 | 293 | 101 | V |
| 3 | * 2.39 | 33.66 | RMS | 32.1 | -22.2 | 0 | 43.56 | 54 | -10.44 | - | - | 293 | 101 | V |
| 4 | * 2.39 | 34.18 | RMS | 32.1 | -22.2 | 0 | 44.08 | 54 | -9.92 | - | - | 293 | 101 | V |

# AUTHORIZED BANDEDGE (HIGH CHANNEL)

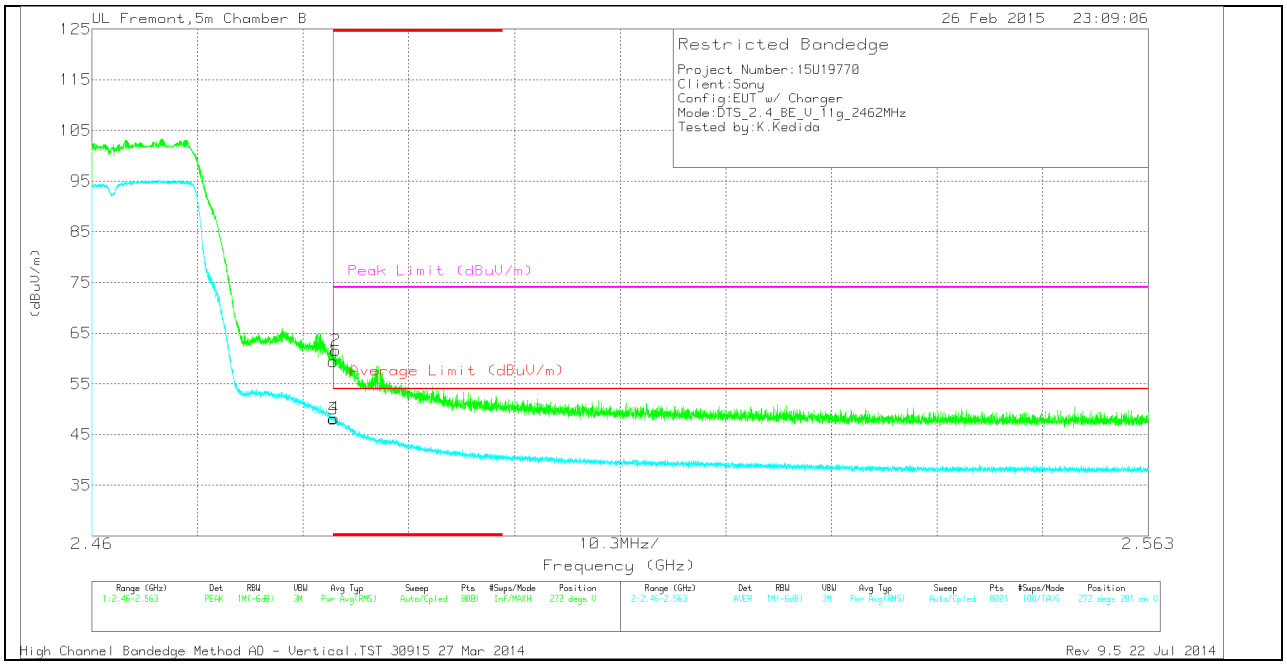
## HORIZONTAL PEAK AND AVERAGE PLOT




## HORIZONTAL DATA

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T712 (dB/m) | Amp/Cbl/ Fltr/Pad (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | * 2.484 | 54.95 | PK | 32.1 | -22.4 | 64.65 | - | - | 74 | -9.35 | 0 | 280 | H |
| 2 | * 2.484 | 55.83 | PK | 32.1 | -22.4 | 65.53 | - | - | 74 | -8.47 | 0 | 280 | H |
| 3 | * 2.484 | 41.6 | RMS | 32.1 | -22.4 | 51.3 | 54 | -2.7 | - | - | 0 | 280 | H |
| 4 | * 2.484 | 43.02 | RMS | 32.1 | -22.4 | 52.72 | 54 | -1.28 | - | - | 0 | 280 | H |

## VERTICAL PEAK AND AVERAGE PLOT

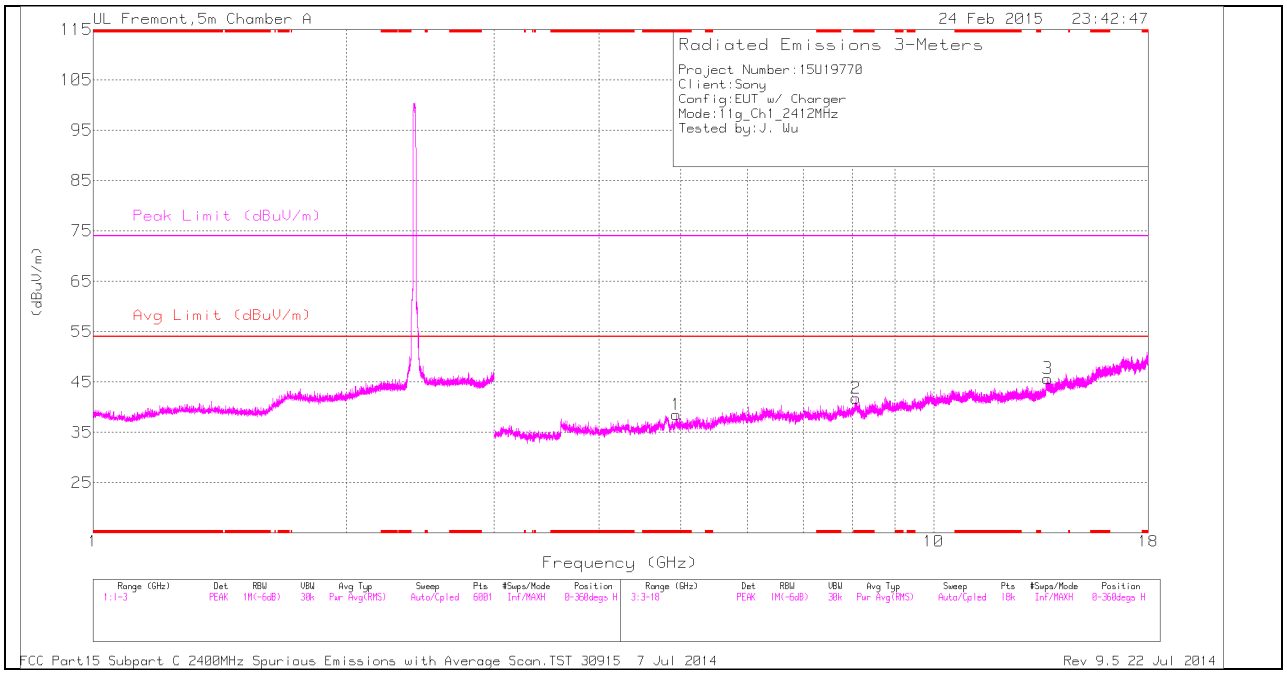



## VERTICAL DATA

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T712 (dB/m) | Amp/Cbl/ Fltr/Pad (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | * 2.484 | 49.72 | PK | 32.1 | -22.4 | 59.42 | - | - | 74 | -14.58 | 272 | 281 | V |
| 2 | * 2.484 | 51.86 | PK | 32.1 | -22.4 | 61.56 | - | - | 74 | -12.44 | 272 | 281 | V |
| 3 | * 2.484 | 38.35 | RMS | 32.1 | -22.4 | 48.05 | 54 | -5.95 | - | - | 272 | 281 | V |
| 4 | * 2.484 | 38.54 | RMS | 32.1 | -22.4 | 48.24 | 54 | -5.76 | - | - | 272 | 281 | V |

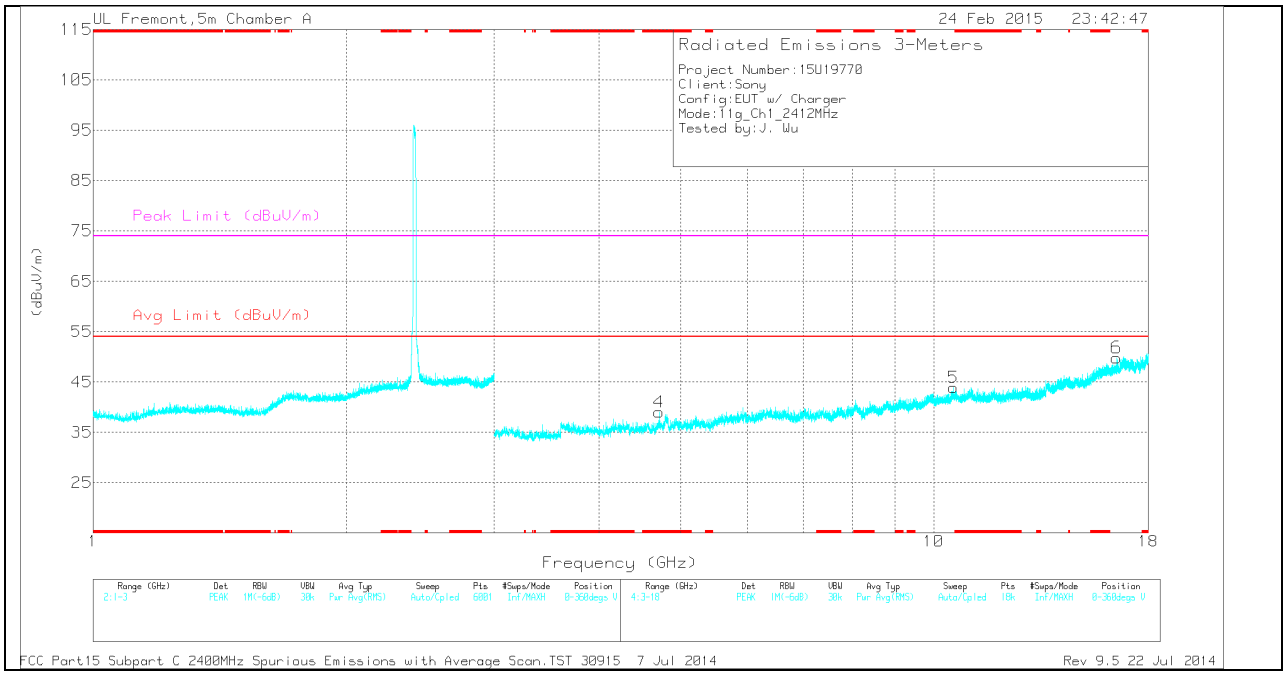
# HARMONICS AND SPURIOUS EMISSIONS

## LOW CHANNEL HORIZONTAL




Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

**LOW CHANNEL VERTICAL**




Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

## LOW CHANNEL DATA

*TRACE MARKERS*

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T711 (dB/m) | Amp/Cbl/Fltr /Pad (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | * 4.94 | 32.03 | PK | 33.9 | -27.4 | 0 | 38.53 | - | - | 74 | -35.47 | 0-360 | 201 | H |
| 2 | * 8.082 | 29.08 | PK | 36 | -23.3 | 0 | 41.78 | - | - | 74 | -32.22 | 0-360 | 201 | H |
| 4 | * 4.712 | 34.74 | PK | 33.9 | -29.6 | 0 | 39.04 | - | - | 74 | -34.96 | 0-360 | 201 | V |
| 5 | 10.558 | 26.88 | PK | 38.1 | -21.1 | 0 | 43.88 | - | - | - | - | 0-360 | 201 | V |
| 3 | 13.658 | 27.47 | PK | 39.1 | -20.9 | 0 | 45.67 | - | - | - | - | 0-360 | 100 | H |
| 6 | 16.5 | 26.62 | PK | 41.9 | -18.7 | 0 | 49.82 | - | - | - | - | 0-360 | 100 | V |

PK - Peak detector

*RADIATED EMISSIONS*

| Frequency (GHz) | Meter Reading (dBuV) | Det | AF T711 (dB/m) | Amp/Cbl/ Fltr/Pad (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| * 4.942 | 40.32 | PK2 | 33.9 | -27.3 | 0 | 46.92 | - | - | 74 | -27.08 | 137 | 387 | H |
| * 4.94 | 27.67 | MAv1 | 33.9 | -27.4 | 0 | 34.17 | 54 | -19.83 | - | - | 137 | 387 | H |
| * 8.083 | 35.7 | PK2 | 36 | -23.3 | 0 | 48.4 | - | - | 74 | -25.6 | 31 | 170 | H |
| * 8.082 | 24.33 | MAv1 | 36 | -23.3 | 0 | 37.03 | 54 | -16.97 | - | - | 31 | 170 | H |
| * 4.713 | 40.77 | PK2 | 33.9 | -29.6 | 0 | 45.07 | - | - | 74 | -28.93 | 355 | 288 | V |
| * 4.712 | 29.32 | MAv1 | 33.9 | -29.6 | 0 | 33.62 | 54 | -20.38 | - | - | 355 | 288 | V |

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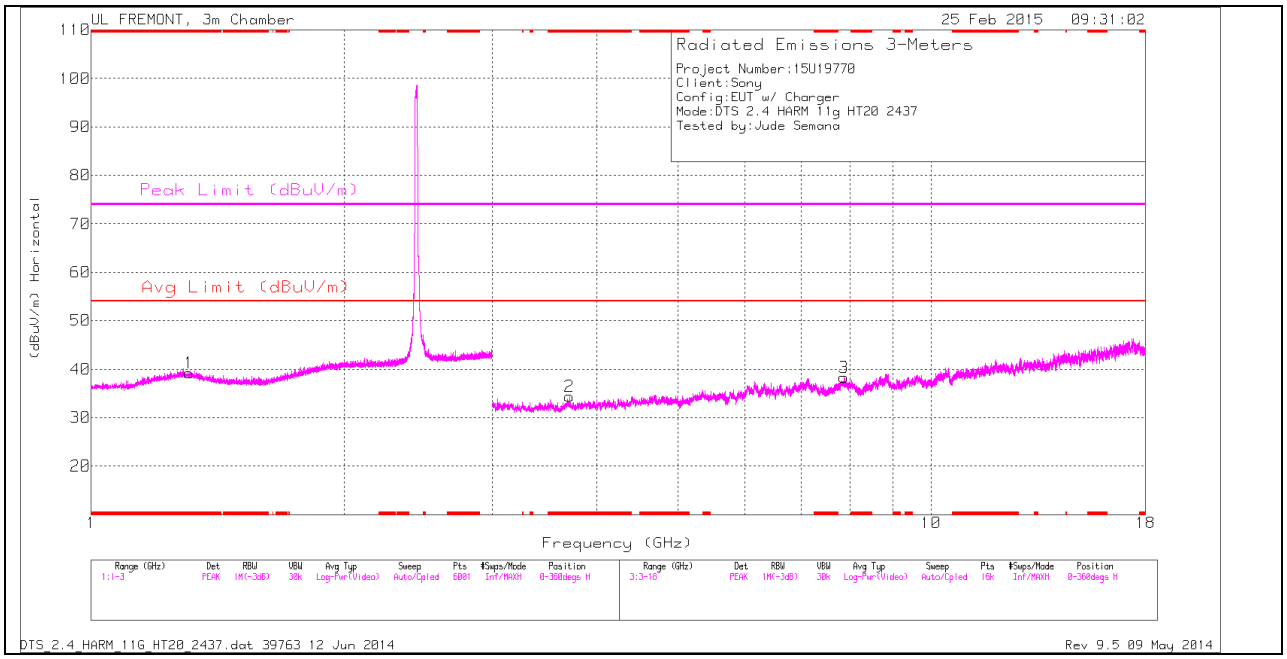
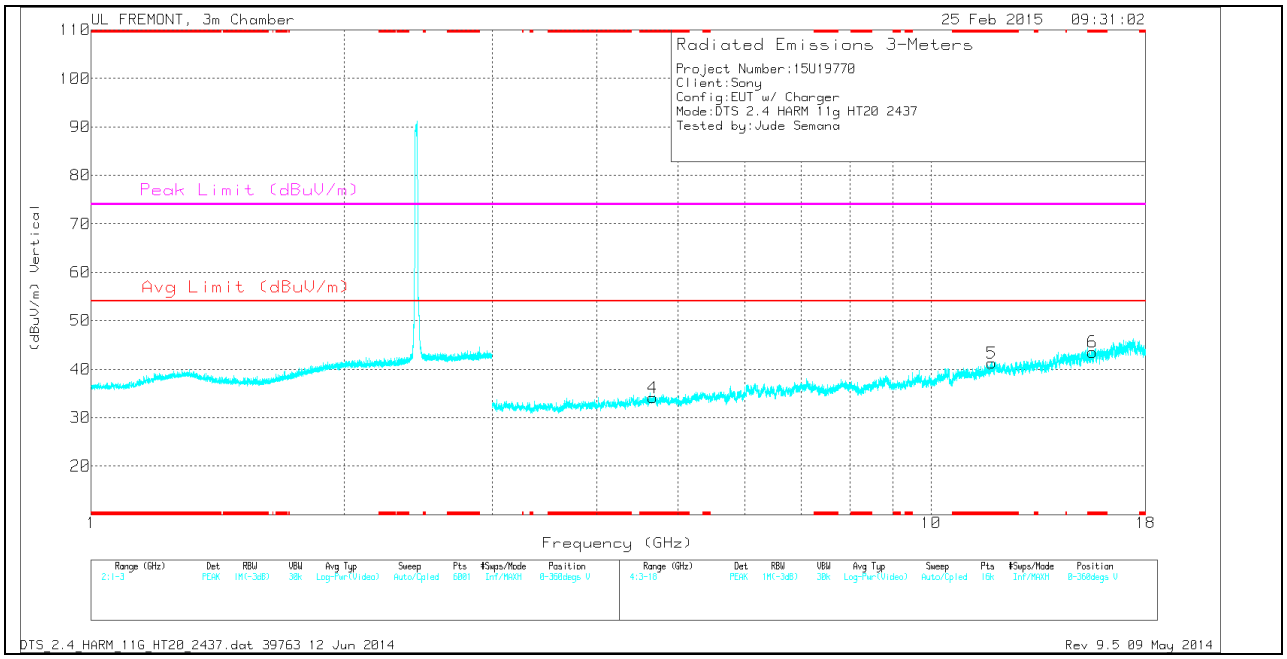
**MID CHANNEL HORIZONTAL**




Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

**MID CHANNEL VERTICAL**




Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

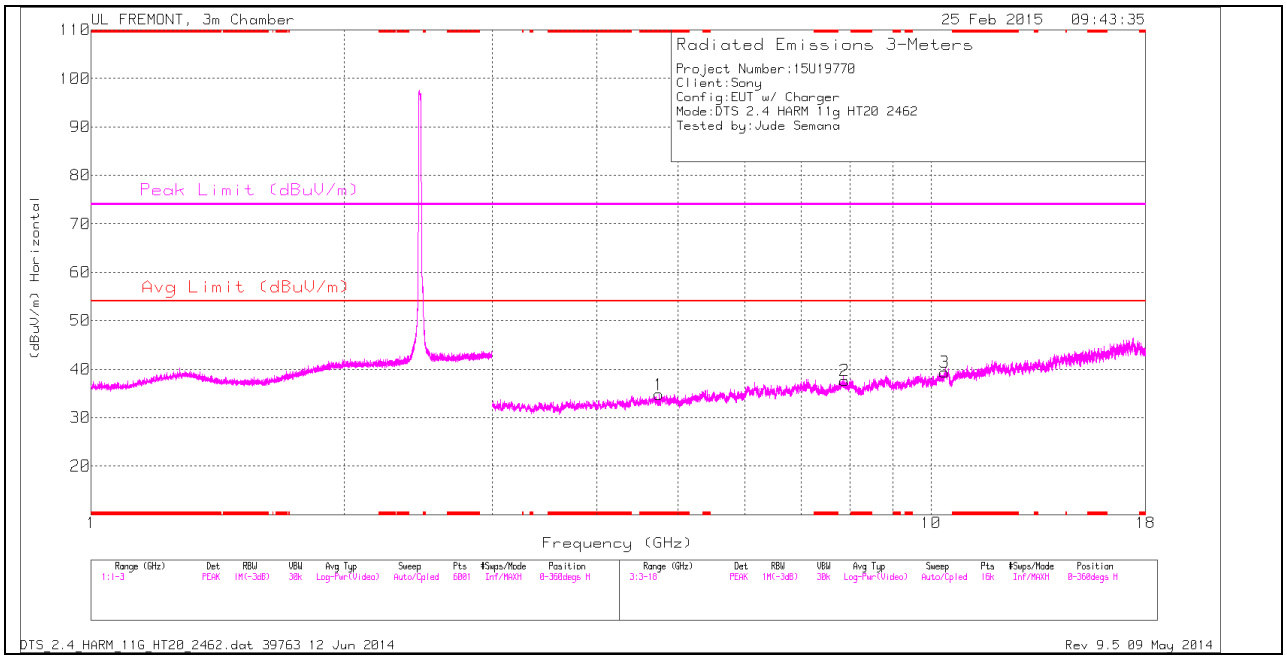
## MID CHANNEL DATA

*TRACE MARKERS*

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T119 (dB/m) | Amp/Cbl/Fltr /Pad (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | * 1.308 | 33.21 | PK | 29.8 | -23.8 | 0 | 39.21 | - | - | 74 | -34.79 | 0-360 | 200 | H |
| 2 | * 3.711 | 32.18 | PK | 33 | -30.8 | 0 | 34.38 | - | - | 74 | -39.62 | 0-360 | 200 | H |
| 4 | * 4.664 | 31.04 | PK | 34 | -30.9 | 0 | 34.14 | - | - | 74 | -39.86 | 0-360 | 100 | V |
| 5 | * 11.8 | 28.49 | PK | 39 | -26.2 | 0 | 41.29 | - | - | 74 | -32.71 | 0-360 | 100 | V |
| 6 | * 15.567 | 29.82 | PK | 40.3 | -26.6 | 0 | 43.52 | - | - | 74 | -30.48 | 0-360 | 100 | V |
| 3 | 7.876 | 29.8 | PK | 35.8 | -27.3 | 0 | 38.3 | - | - | - | - | 0-360 | 100 | H |

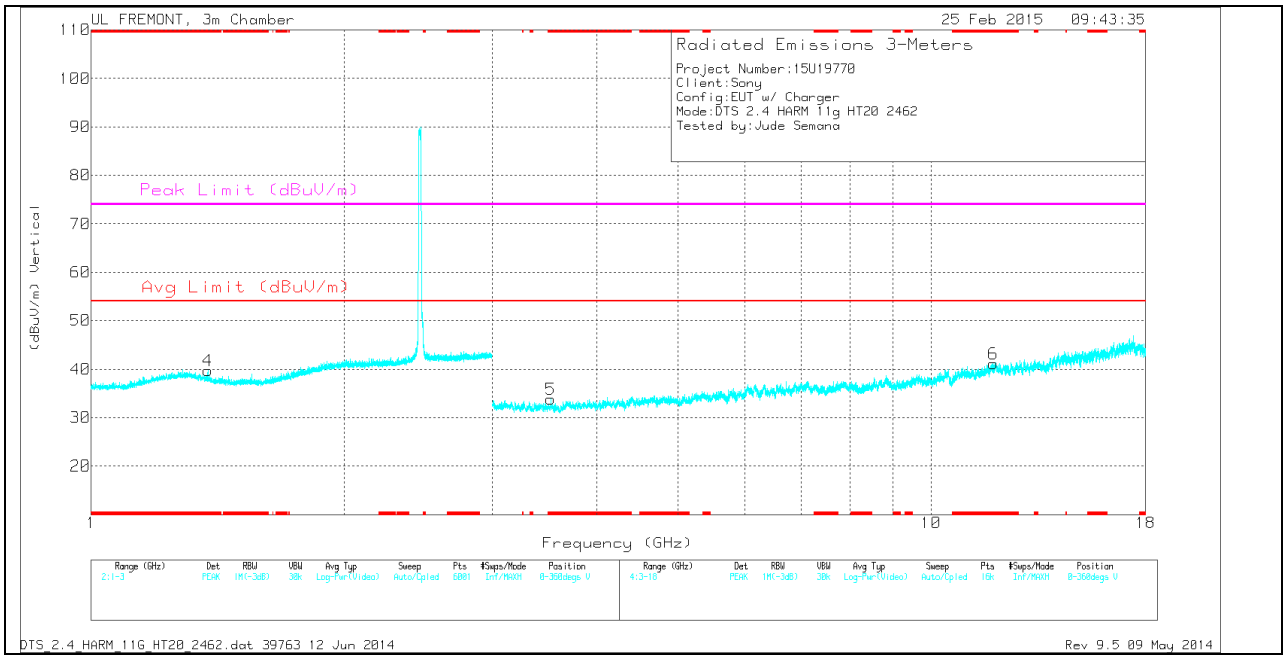
PK - Peak detector

**HIGH CHANNEL HORIZONTAL**




Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

**HIGH CHANNEL VERTICAL**




Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

## HIGH CHANNEL DATA

*TRACE MARKERS*

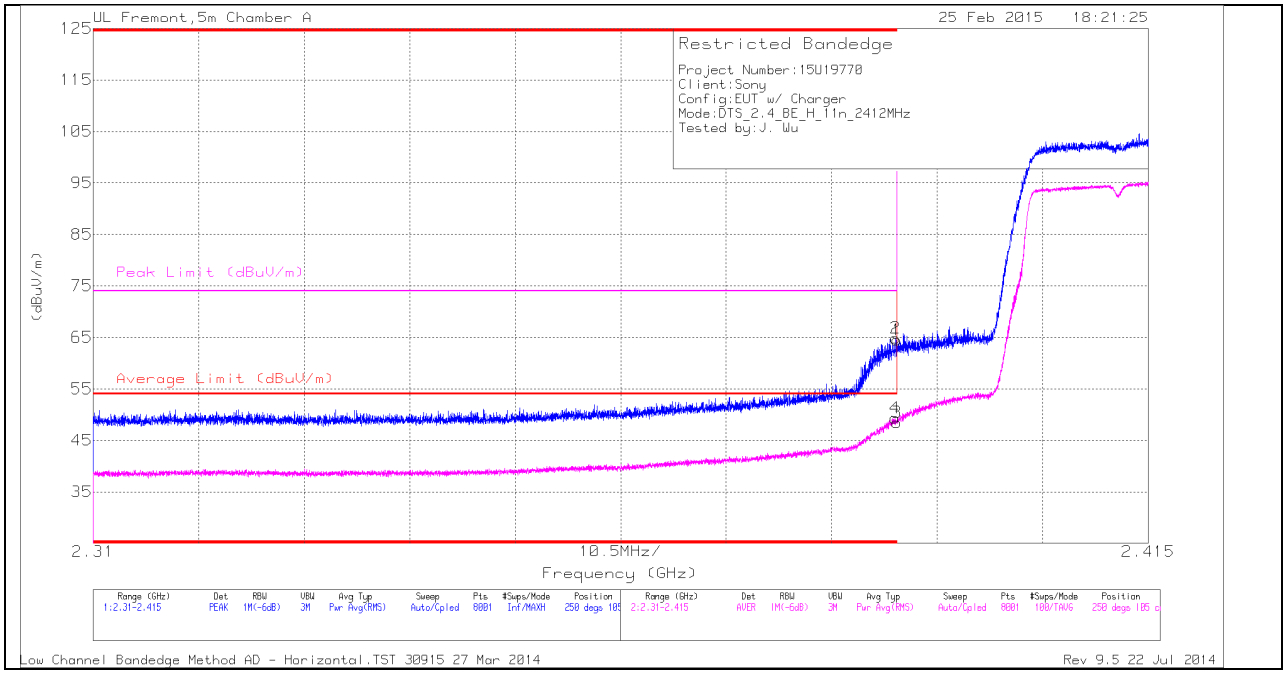
| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T119 (dB/m) | Amp/Cbl/Fltr /Pad (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4 | * 1.377 | 34.64 | PK | 28.9 | -23.8 | 0 | 39.74 | - | - | 74 | -34.26 | 0-360 | 200 | V |
| 6 | * 11.854 | 28.3 | PK | 39.1 | -26.3 | 0 | 41.1 | - | - | 74 | -32.9 | 0-360 | 100 | V |
| 5 | * 3.525 | 32 | PK | 32.8 | -31 | 0 | 33.8 | - | - | 74 | -40.2 | 0-360 | 100 | V |
| 1 | * 4.741 | 31.68 | PK | 34 | -30.9 | 0 | 34.78 | - | - | 74 | -39.22 | 0-360 | 200 | H |
| 3 | 10.378 | 27.87 | PK | 37.2 | -25.7 | 0 | 39.37 | - | - | - | - | 0-360 | 100 | H |
| 2 | 7.893 | 29.23 | PK | 35.8 | -27.4 | 0 | 37.63 | - | - | - | - | 0-360 | 100 | H |

PK - Peak detector

# 9.2.3. TX ABOVE 1 GHz 802.11n HT20 MODE IN THE 2.4 GHz BAND

## RESTRICTED BANDEDGE (LOW CHANNEL)

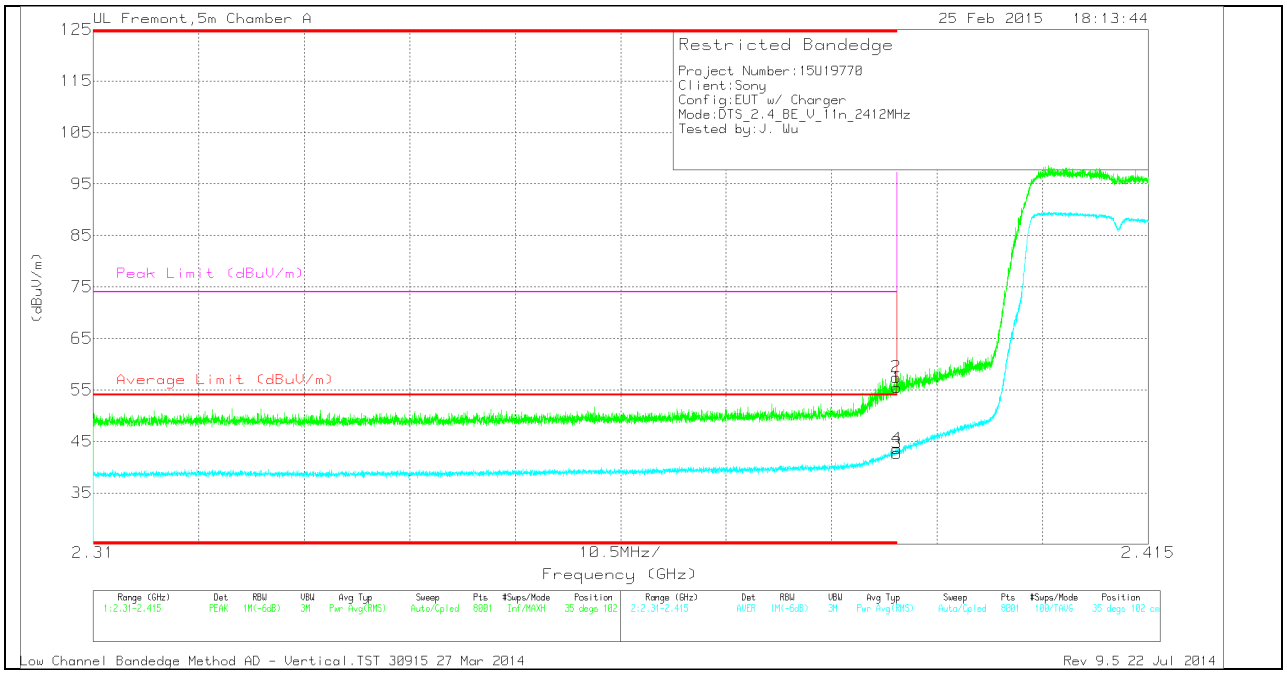
### HORIZONTAL PEAK AND AVERAGE PLOT




### HORIZONTAL DATA

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T711 (dB/m) | Amp/Cbl/ Fltr/Pad (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | * 2.39 | 54.58 | PK | 32.1 | -22.2 | 64.48 | - | - | 74 | -9.52 | 250 | 105 | H |
| 2 | * 2.39 | 54.96 | PK | 32.1 | -22.2 | 64.86 | - | - | 74 | -9.14 | 250 | 105 | H |
| 3 | * 2.39 | 38.59 | RMS | 32.1 | -22.2 | 48.49 | 54 | -5.51 | - | - | 250 | 105 | H |
| 4 | * 2.39 | 39.44 | RMS | 32.1 | -22.2 | 49.34 | 54 | -4.66 | - | - | 250 | 105 | H |

## VERTICAL PEAK AND AVERAGE PLOT

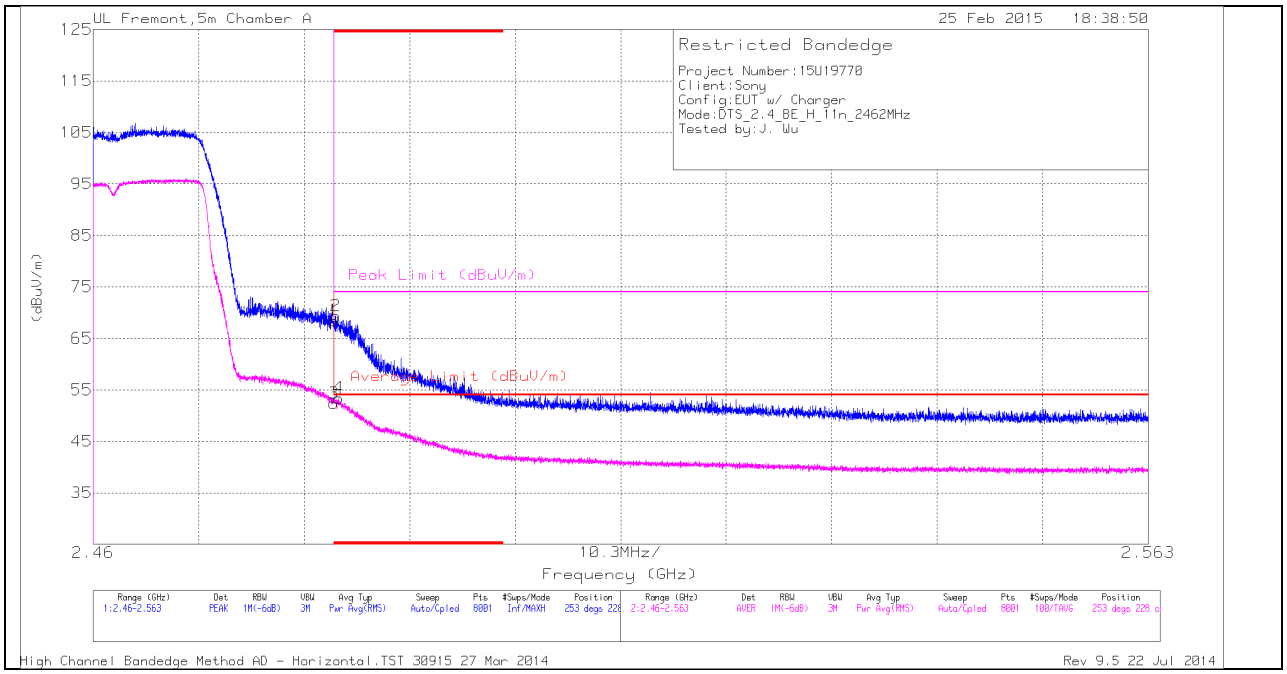



## VERTICAL DATA

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T711 (dB/m) | Amp/Cbl/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 | * 2.39 | 45.54 | PK | 32.1 | -22.2 | 0 | 55.44 | - | - | 74 | -18.56 | 35 | 102 | V |
| 2 | * 2.39 | 47.57 | PK | 32.1 | -22.2 | 0 | 57.47 | - | - | 74 | -16.53 | 35 | 102 | V |
| 3 | * 2.39 | 32.81 | RMS | 32.1 | -22.2 | 0 | 42.71 | 54 | -11.29 | - | - | 35 | 102 | V |
| 4 | * 2.39 | 33.68 | RMS | 32.1 | -22.2 | 0 | 43.58 | 54 | -10.42 | - | - | 35 | 102 | V |

# AUTHORIZED BANDEDGE (HIGH CHANNEL)

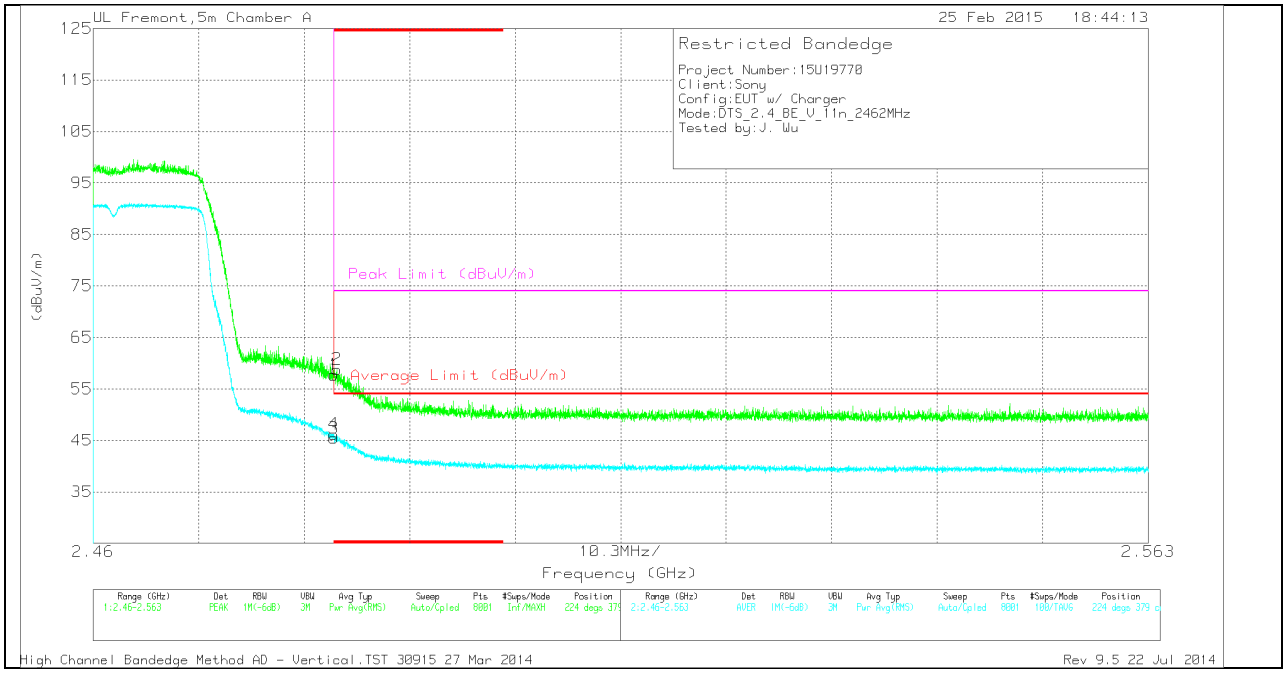
## HORIZONTAL PEAK AND AVERAGE PLOT




## HORIZONTAL DATA

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T711 (dB/m) | Amp/Cbl/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 | * 2.484 | 58.26 | PK | 32.1 | -21.9 | 0 | 68.46 | - | - | 74 | -5.54 | 253 | 228 | H |
| 2 | * 2.484 | 59.14 | PK | 32.1 | -21.9 | 0 | 69.34 | - | - | 74 | -4.66 | 253 | 228 | H |
| 3 | * 2.484 | 42.19 | RMS | 32.1 | -21.9 | 0 | 52.39 | 54 | -1.61 | - | - | 253 | 228 | H |
| 4 | * 2.484 | 43.21 | RMS | 32.1 | -21.9 | 0 | 53.41 | 54 | -.59 | - | - | 253 | 228 | H |

## VERTICAL PEAK AND AVERAGE PLOT

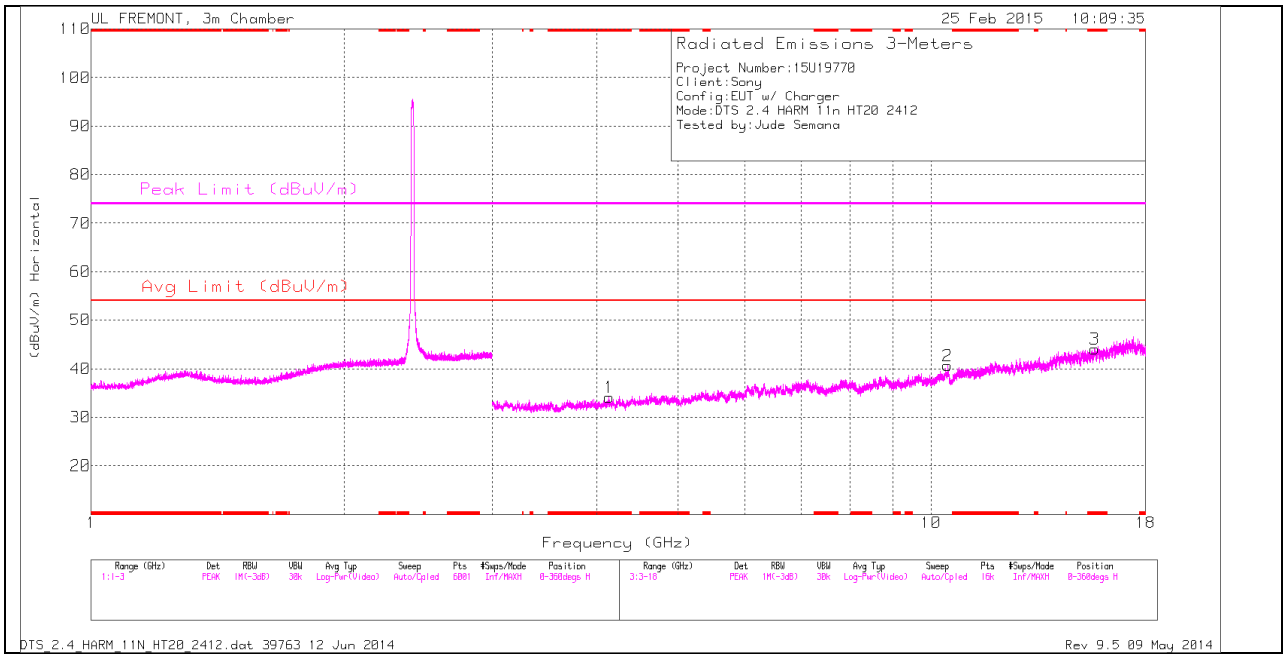



## VERTICAL DATA

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T711 (dB/m) | Amp/Cbl/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 | * 2.484 | 47.54 | PK | 32.1 | -21.9 | 0 | 57.74 | - | - | 74 | -16.26 | 224 | 379 | V |
| 2 | * 2.484 | 48.6 | PK | 32.1 | -21.9 | 0 | 58.8 | - | - | 74 | -15.2 | 224 | 379 | V |
| 3 | * 2.484 | 35.23 | RMS | 32.1 | -21.9 | 0 | 45.43 | 54 | -8.57 | - | - | 224 | 379 | V |
| 4 | * 2.484 | 35.99 | RMS | 32.1 | -21.9 | 0 | 46.19 | 54 | -7.81 | - | - | 224 | 379 | V |

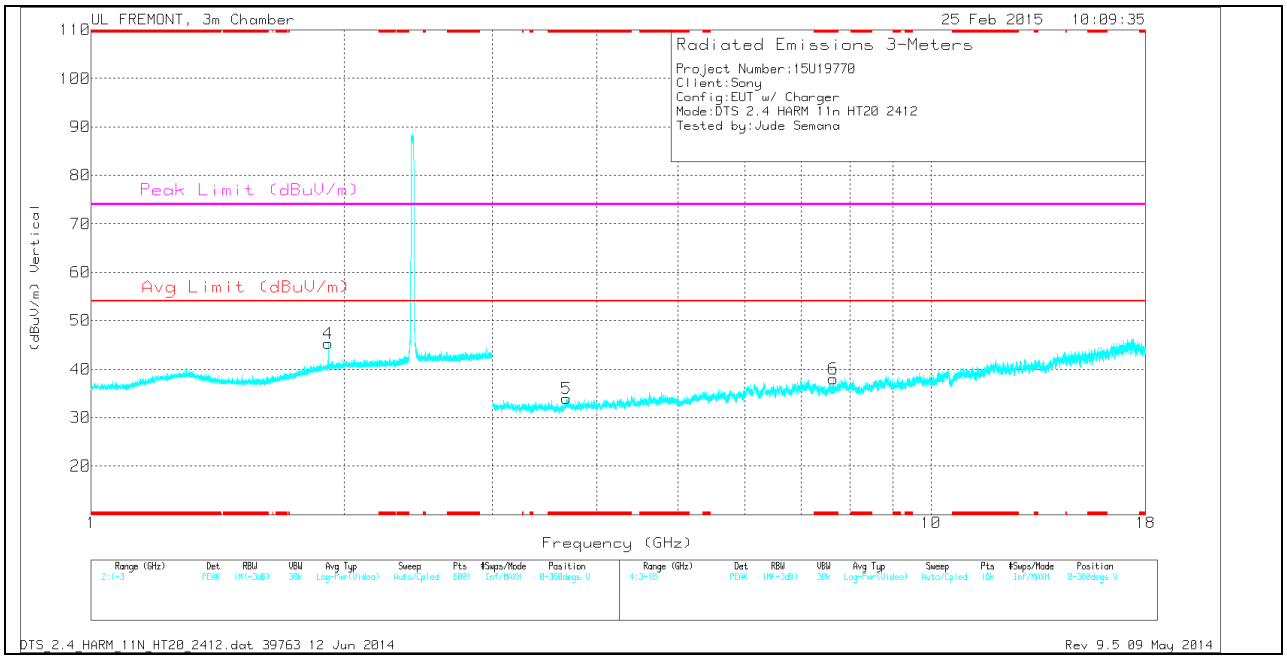
# HARMONICS AND SPURIOUS EMISSIONS

## LOW CHANNEL HORIZONTAL




Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

**LOW CHANNEL VERTICAL**




Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

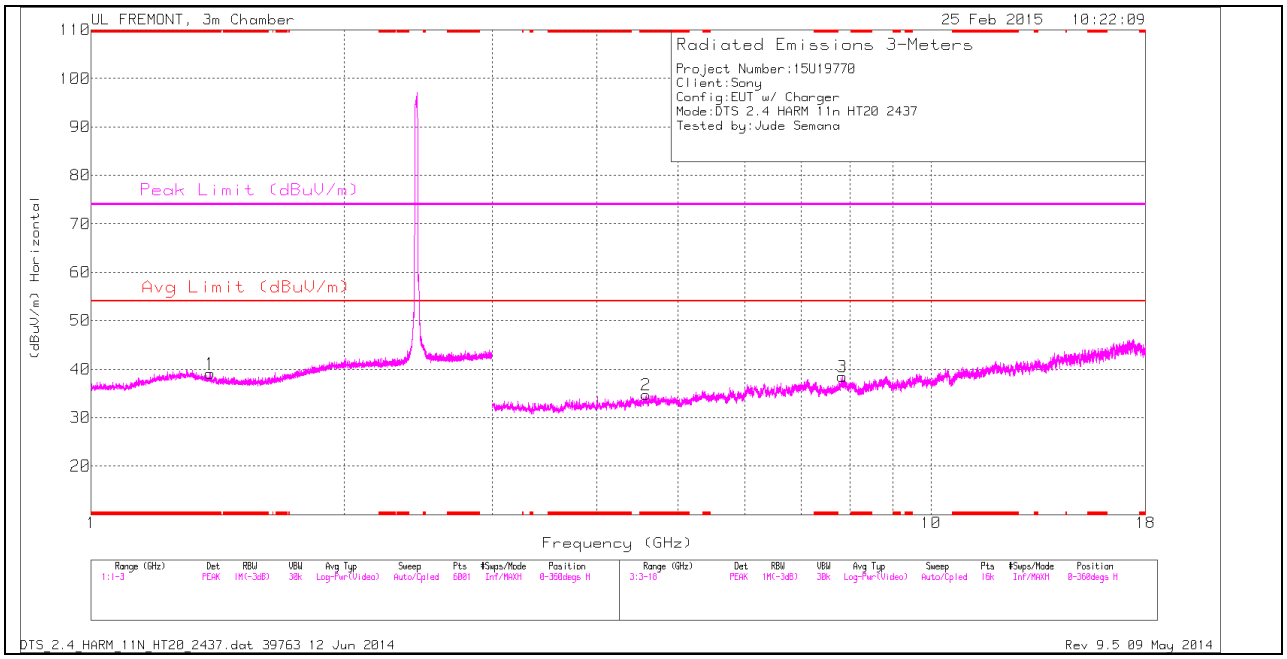
## LOW CHANNEL DATA

*TRACE MARKERS*

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T119 (dB/m) | Amp/Cbl/Fltr /Pad (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | * 4.135 | 31.95 | PK | 33.3 | -31.1 | 0 | 34.15 | - | - | 74 | -39.85 | 0-360 | 100 | H |
| 3 | * 15.651 | 30.37 | PK | 40.3 | -26.6 | 0 | 44.07 | - | - | 74 | -29.93 | 0-360 | 200 | H |
| 5 | * 3.679 | 31.56 | PK | 33 | -30.6 | 0 | 33.96 | - | - | 74 | -40.04 | 0-360 | 100 | V |
| 6 | * 7.652 | 30.21 | PK | 35.8 | -28 | 0 | 38.01 | - | - | 74 | -35.99 | 0-360 | 200 | V |
| 4 | 1.915 | 37.44 | PK | 31.2 | -23.3 | 0 | 45.34 | - | - | - | - | 0-360 | 100 | V |
| 2 | 10.466 | 28.23 | PK | 37.4 | -25 | 0 | 40.63 | - | - | - | - | 0-360 | 200 | H |

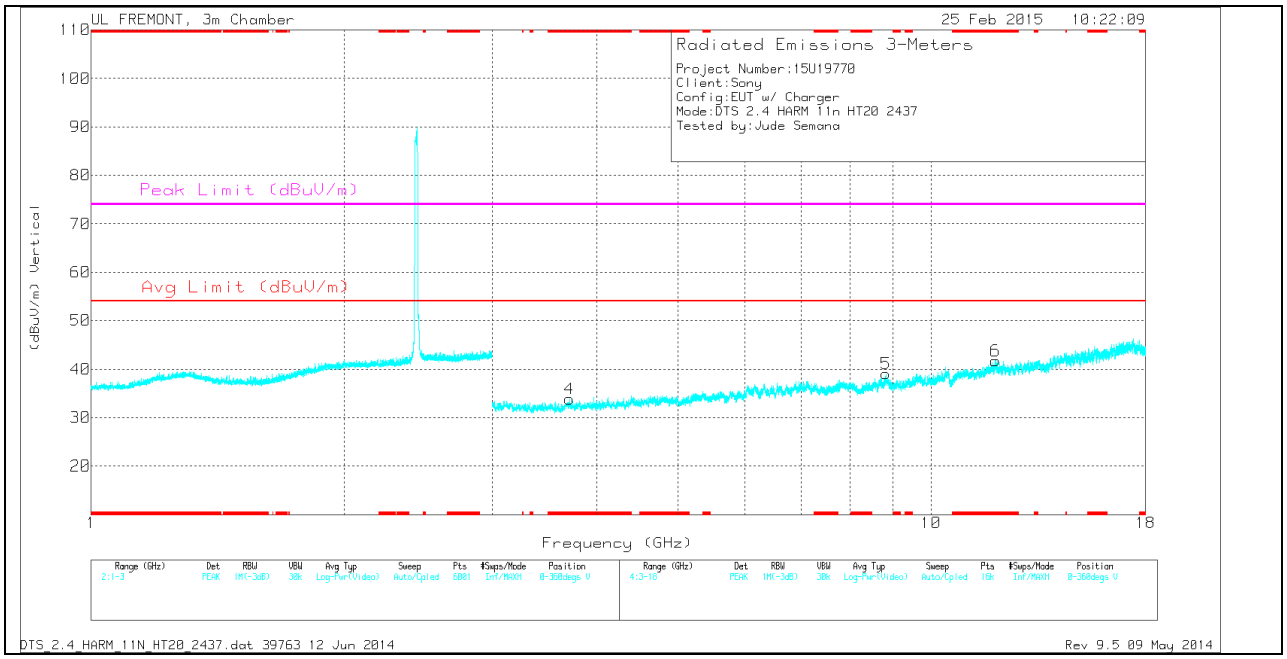
PK - Peak detector

**MID CHANNEL HORIZONTAL**




Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

**MID CHANNEL VERTICAL**




Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

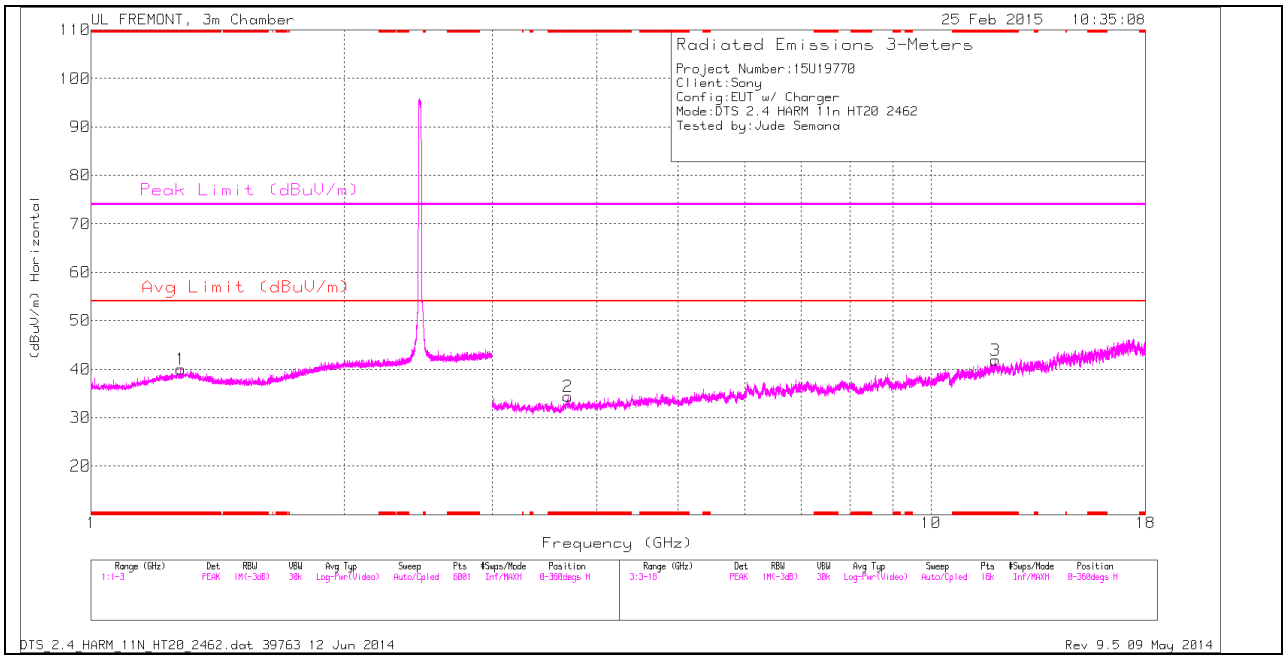
## MID CHANNEL DATA

*TRACE MARKERS*

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T119 (dB/m) | Amp/Cbl/Fltr /Pad (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | * 1.386 | 34.11 | PK | 28.8 | -23.8 | 0 | 39.11 | - | - | 74 | -34.89 | 0-360 | 200 | H |
| 6 | * 11.926 | 28.83 | PK | 39.1 | -26.2 | 0 | 41.73 | - | - | 74 | -32.27 | 0-360 | 100 | V |
| 4 | * 3.71 | 31.66 | PK | 33 | -30.8 | 0 | 33.86 | - | - | 74 | -40.14 | 0-360 | 100 | V |
| 2 | * 4.577 | 31.82 | PK | 33.8 | -30.9 | 0 | 34.72 | - | - | 74 | -39.28 | 0-360 | 100 | H |
| 3 | 7.845 | 30.17 | PK | 35.8 | -27.5 | 0 | 38.47 | - | - | - | - | 0-360 | 100 | H |
| 5 | 8.836 | 29.67 | PK | 35.9 | -26.5 | 0 | 39.07 | - | - | - | - | 0-360 | 200 | V |

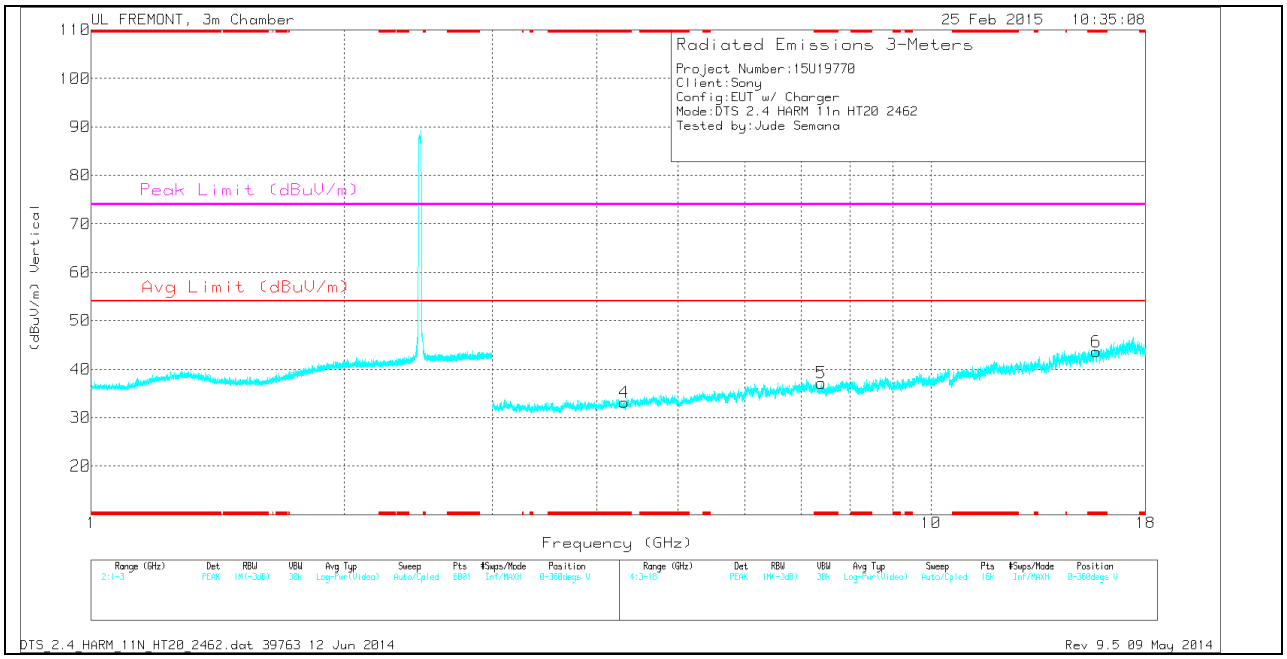
PK - Peak detector

**HIGH CHANNEL HORIZONTAL**




Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

**HIGH CHANNEL VERTICAL**




Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

## HIGH CHANNEL DATA

*TRACE MARKERS*

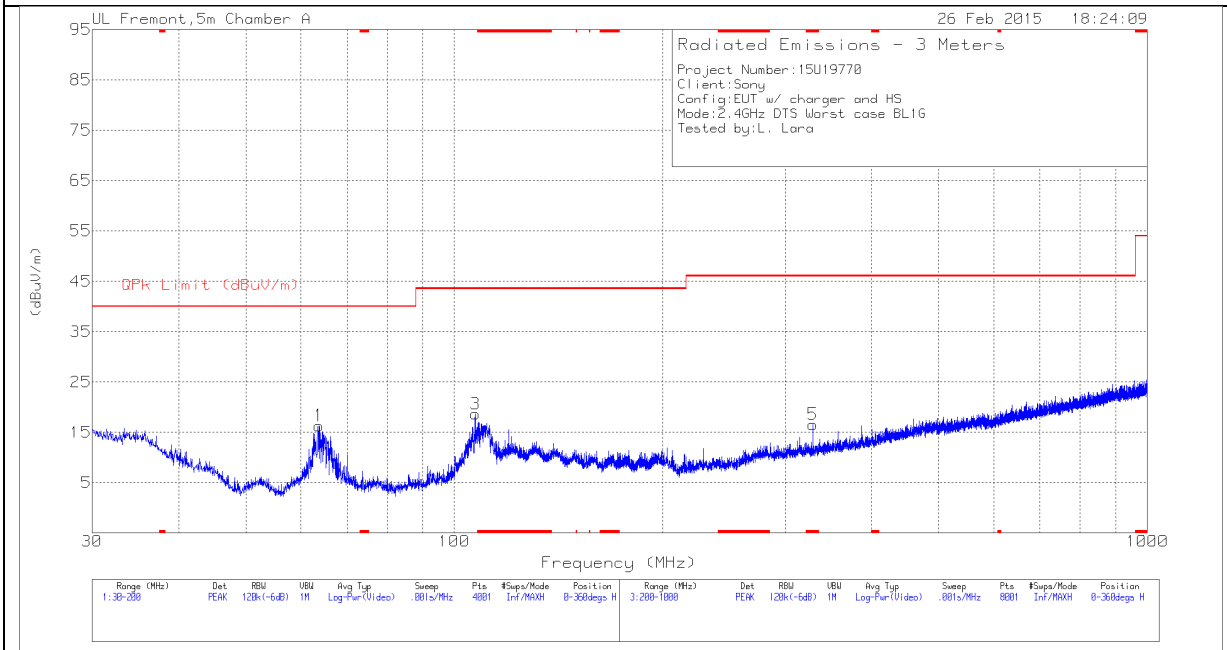
| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T119 (dB/m) | Amp/Cbl/Fltr /Pad (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | * 1.278 | 34.12 | PK | 29.7 | -23.8 | 0 | 40.02 | - | - | 74 | -33.98 | 0-360 | 100 | H |
| 3 | * 11.925 | 28.98 | PK | 39.1 | -26.2 | 0 | 41.88 | - | - | 74 | -32.12 | 0-360 | 200 | H |
| 6 | * 15.724 | 29.8 | PK | 40.4 | -26.6 | 0 | 43.6 | - | - | 74 | -30.4 | 0-360 | 100 | V |
| 2 | * 3.694 | 32.16 | PK | 33 | -30.8 | 0 | 34.36 | - | - | 74 | -39.64 | 0-360 | 200 | H |
| 4 | * 4.313 | 30.53 | PK | 33.5 | -30.9 | 0 | 33.13 | - | - | 74 | -40.87 | 0-360 | 200 | V |
| 5 | * 7.401 | 29.93 | PK | 35.6 | -28.4 | 0 | 37.13 | - | - | 74 | -36.87 | 0-360 | 200 | V |

PK - Peak detector

## 9.3. WORST-CASE BELOW 1 GHz

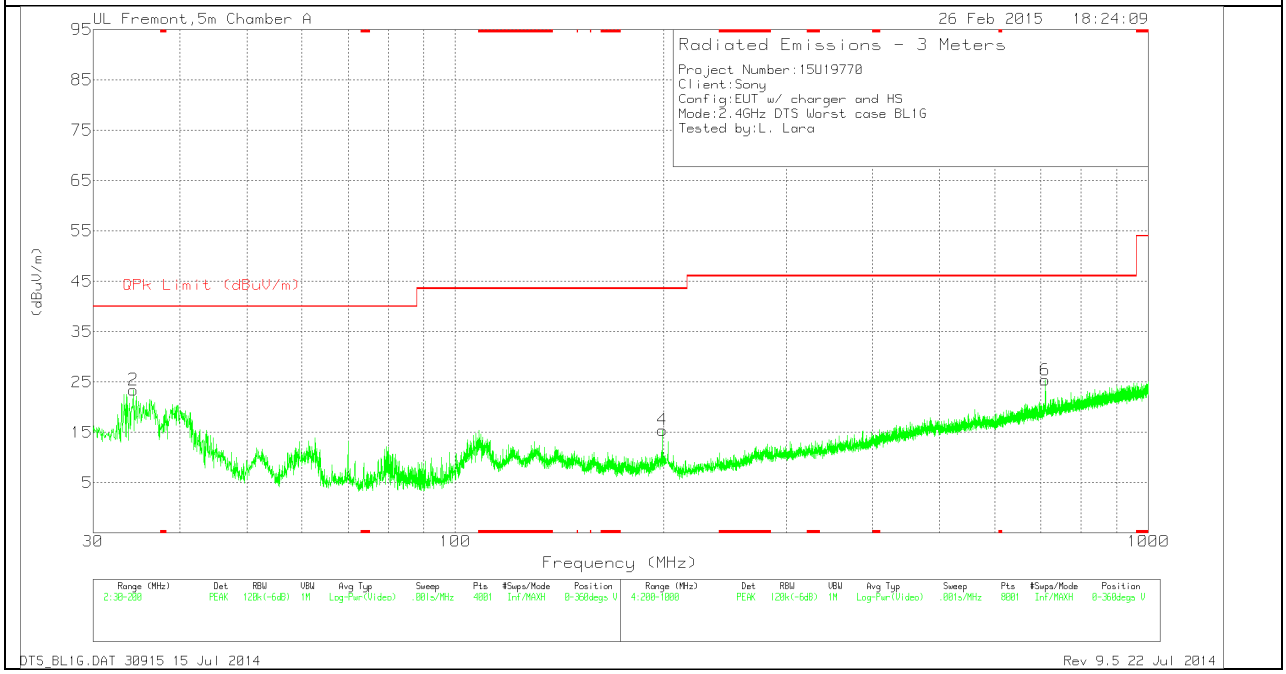
**SPURIOUS EMISSIONS 30 TO 1000 MHz (WORST-CASE CONFIGURATION, HORIZONTAL)**

HORIZONTAL PLOT



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

VERTICAL PLOT



## Below 1G Data

| Marker | Frequency (MHz) | Meter Reading (dBuV) | Det | AF T130 (dB/m) | Amp/Cbl (dB/m) | Corrected Reading (dBuV/m) | QPk Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 5 | * 329.3 | 31.96 | PK | 13.9 | -29.3 | 16.56 | 46.02 | -29.46 | 0-360 | 200 | H |
| 2 | 34.2925 | 36.43 | PK | 18.2 | -31.2 | 23.43 | 40 | -16.57 | 0-360 | 101 | V |
| 1 | 63.7875 | 39.32 | PK | 7.9 | -30.9 | 16.32 | 40 | -23.68 | 0-360 | 300 | H |
| 3 | 107.18 | 37.15 | PK | 12 | -30.5 | 18.65 | 43.52 | -24.87 | 0-360 | 300 | H |
| 4 | 199.065 | 32.87 | PK | 12.5 | -29.9 | 15.47 | 43.52 | -28.05 | 0-360 | 101 | V |
| 6 | 709.3 | 33.38 | PK | 20.2 | -28.2 | 25.38 | 46.02 | -20.64 | 0-360 | 101 | V |

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

PK - Peak detector