



**FCC 47 CFR PART 15 SUBPART B**

**CERTIFICATION TEST REPORT**

**FOR**

**GSM/WCDMA/CDMA/LTE + BLUETOOTH, DTS/UNII a/b/g/n/ac, ANT+ & NFC**

**FCC ID: PY7-PM0841**

**REPORT NUMBER: 15U20107-E8**

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**NVLAP LAB CODE 200065-0**

Revision History

| Rev. | Issue Date | Revisions     | Revised By |
|------|------------|---------------|------------|
| --   | 04/26/15   | Initial issue | CHOON OOI  |

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## 1. ATTESTATION OF TEST RESULTS

**COMPANY NAME:** SONY MOBILE COMMUNICATIONS, INC.  
**EUT DESCRIPTION:** GSM/WCDMA/CDMA/LTE + BLUETOOTH, DTS/UNII a/b/g/n/ac, ANT+ &  
NFC  
**SERIAL NUMBER:** CB5A24QGLY (Conducted), CB5A24QGLV (Radiated)  
**DATE TESTED:** APRIL 1 – 7, 2015

| APPLICABLE STANDARDS  |              |
|-----------------------|--------------|
| STANDARD              | TEST RESULTS |
| FCC PART 15 SUBPART B | 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 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                            |
|------------------------------------------------------------|-------------------------------------------------|
| <input checked="" type="checkbox"/> Chamber A(IC: 2324B-1) | <input type="checkbox"/> Chamber D(IC: 2324B-4) |
| <input checked="" type="checkbox"/> Chamber B(IC: 2324B-2) | <input type="checkbox"/> Chamber E(IC: 2324B-5) |
| <input checked="" type="checkbox"/> Chamber C(IC: 2324B-3) | <input type="checkbox"/> Chamber F(IC: 2324B-6) |
|                                                            | <input type="checkbox"/> Chamber G(IC: 2324B-7) |
|                                                            | <input type="checkbox"/> 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:

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

### 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 1000 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 + BLUETOOTH, DTS/UNII a/b/g/n/ac and ANT+ and NFC.

|                                                  |                               |
|--------------------------------------------------|-------------------------------|
| AC Adapter Power Requirements                    | 100-300 VAC / 50-60 Hz, 700mA |
| List of frequencies generated or used by the EUT | 2.0GHz (Clock Frequency)      |

### 5.2. PRELIMINARY TEST CONFIGURATIONS

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.

### 5.3. MODE(S) OF OPERATION INVESTIGATED

| Mode | Description  |
|------|--------------|
| Idle | Receive mode |

### 5.4. MODIFICATIONS

No modifications were made during testing.

## 5.5. DETAILS OF TESTED SYSTEM

### SUPPORT EQUIPMENT & PERIPHERALS

| Support Equipment List |              |             |               |        |
|------------------------|--------------|-------------|---------------|--------|
| Description            | Manufacturer | Model       | Serial Number | FCC ID |
| Laptop                 | Lenovo       | TP00001A    | 60Y5028       | DoC    |
| Earphone               | Samsung      | GH59        | N/A           | DoC    |
| AC Adapter             | Samsung      | ETA0U10EBE  | N/A           | N/A    |
| Mouse                  | Logitech     | M-U0026     | 1304HS02AX68  | N/A    |
| Keyboard               | Lenovo       | KU-0225     | 54Y9400       | N/A    |
| Switch                 | Netgear      | GS108T      | 29SA3C5T00E79 | DoC    |
| SD card                | Kingstone    | N/A         | N/A           | DoC    |
| 4K TV                  | Sony         | XBR-49X850B | N/A           | N/A    |

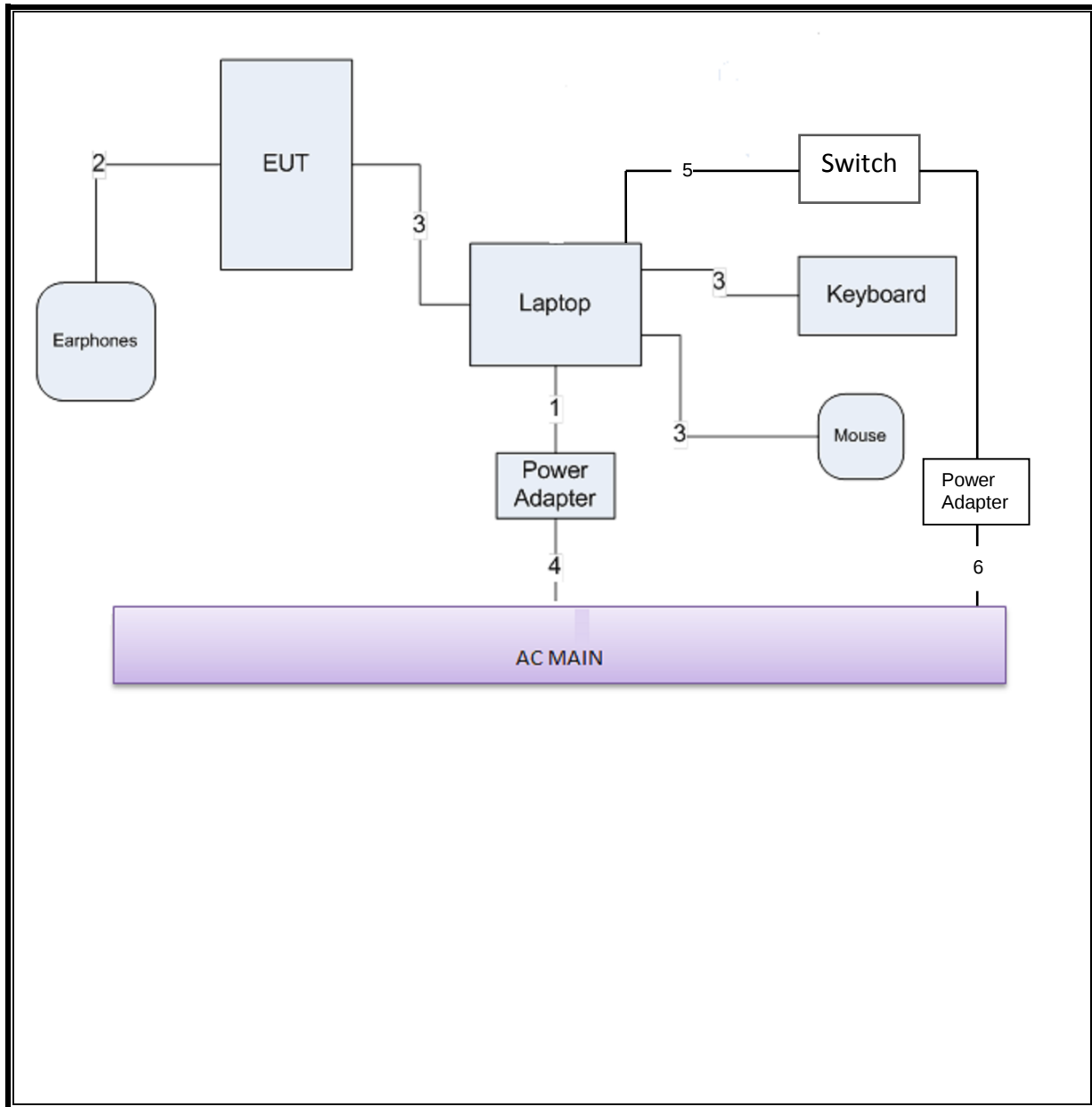
### I/O CABLES

| I/O Cable List |          |                      |                |            |                  |         |
|----------------|----------|----------------------|----------------|------------|------------------|---------|
| Cable No       | Port     | # of identical ports | Connector Type | Cable Type | Cable Length (m) | Remarks |
| 1              | DC Power | 1                    | Power          | Shielded   | 1.2m             | N/A     |
| 2              | Audio    | 1                    | Mini-Jack      | Unshielded | 1m               | N/A     |
| 3              | USB      | 1                    | Mini-USB       | Shielded   | 2m               | N/A     |
| 4              | AC Power | 1                    | IEC            | Unshielded | 1m               | N/A     |
| 5              | Ethernet | 1                    | RJ45           | Unshielded | 2m               | N/A     |

### TEST SETUP

The EUT is installed in a typical configuration. Test software exercised the EUT.

## TEST SETUP DIAGRAM



## 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            | S/N        | Cal Due  |
| Spectrum Analyzer, 44 GHz       | Agilent / HP   | E4446A           | C01069     | 12/20/15 |
| Preamplifier, 100KHz -> 1300MHz | HP             | TBD              | C00825     | 06/01/15 |
| Antenna, Bilog, 30MHz-1GHz      | Sunol Sciences | JB1              | A0022704   | 08/14/15 |
| Preamplifier, 26.5 GHz          | Agilent/HP     | 8449B            | 3008A00931 | 10/22/15 |
| Antenna, Horn, 18GHz            | EMCO           | 3115             | C00783     | 10/25/15 |
| EMI Test Receiver, 30 MHz       | R&S            | ESHS 20          | 827129/006 | 08/08/15 |
| LISN, 30 MHz                    | FCC            | 50/250-25-2      | 114        | 01/16/16 |
| LISN, 10 kHz-30MHz              | Solar          | 8012-50-R-24-BNC | 837990     | C.N.R    |

## 7. APPLICABLE LIMITS AND TEST RESULTS

### 7.1. RADIATED EMISSIONS

#### TEST PROCEDURE

ANSI C63.4: 2009

The highest clock frequency generated or used in the EUT is 2.0 GHz therefore the frequency range was investigated from 30 MHz to 18 GHz.

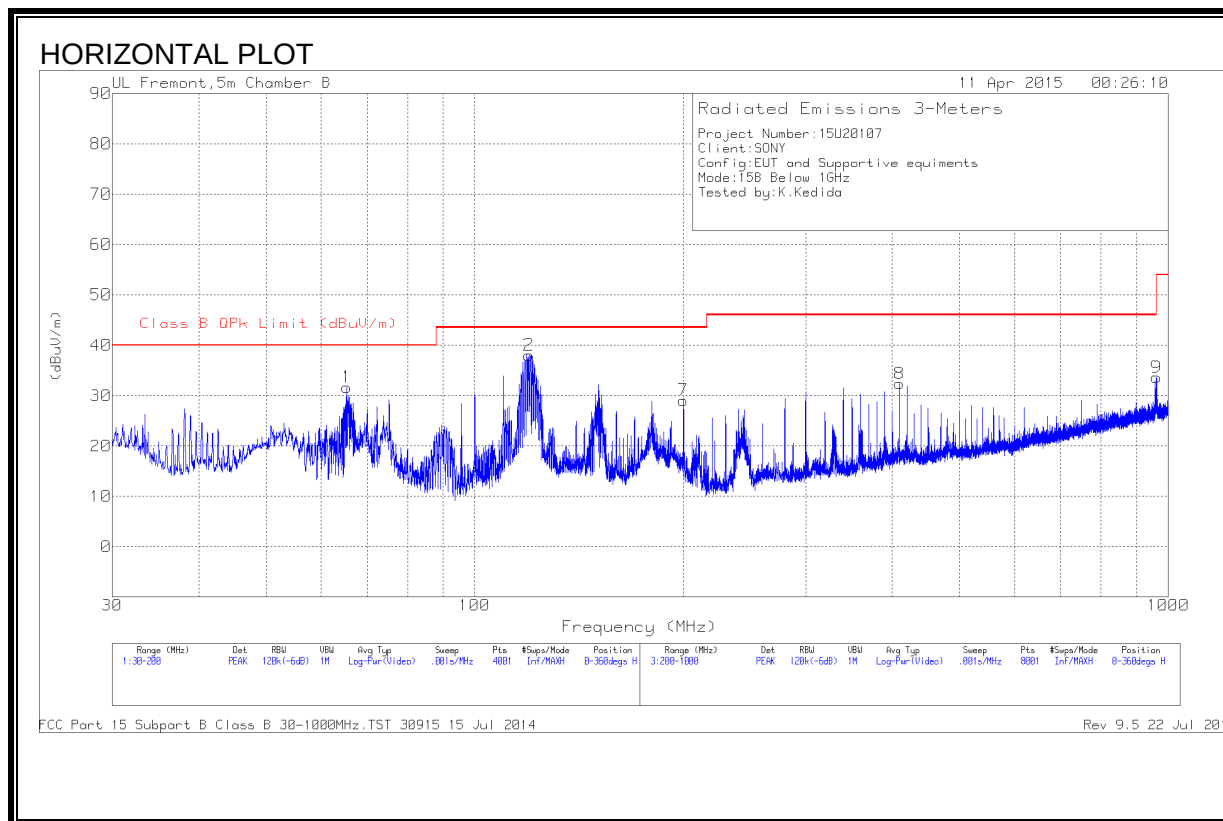
#### LIMIT

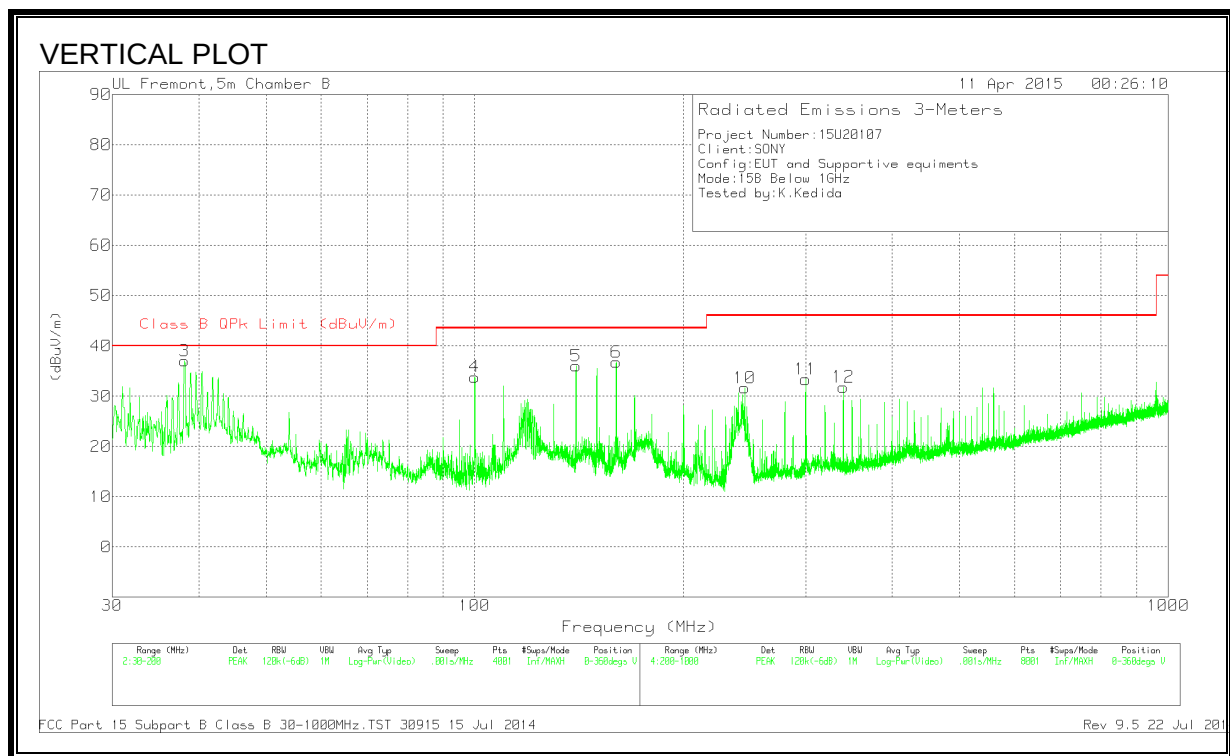
§15.109 (a) Except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

| Limits for radiated disturbance of Class B ITE at measuring distance of 3 m |                                     |
|-----------------------------------------------------------------------------|-------------------------------------|
| Frequency range<br>(MHz)                                                    | Quasi-peak limits<br>(dB $\mu$ V/m) |
| 30 to 88                                                                    | 40                                  |
| 88 to 216                                                                   | 43.5                                |
| 216 to 960                                                                  | 46                                  |
| Above 960 MHz                                                               | 54                                  |
| Note: The lower limit shall apply at the transition frequency.              |                                     |

## RESULTS

### RADIATED EMISSIONS 30 TO 1000 MHz (WORST-CASE CONFIGURATION)



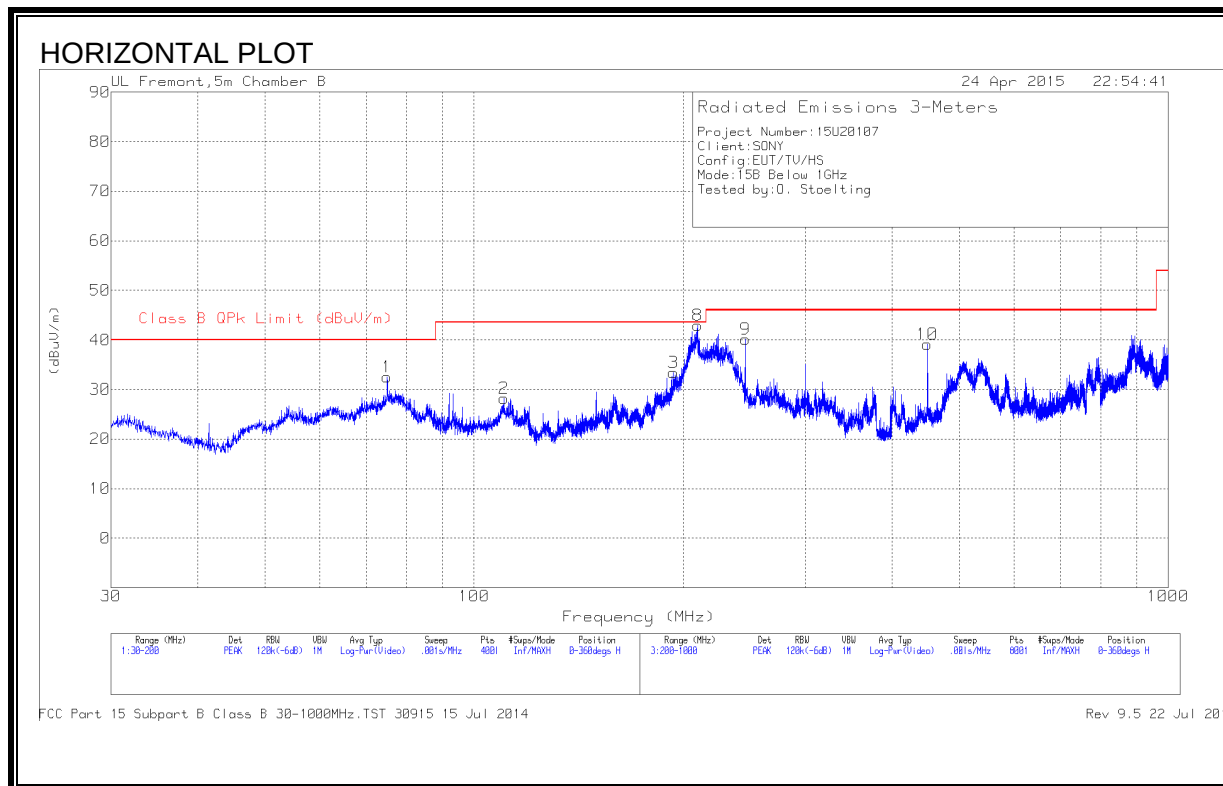


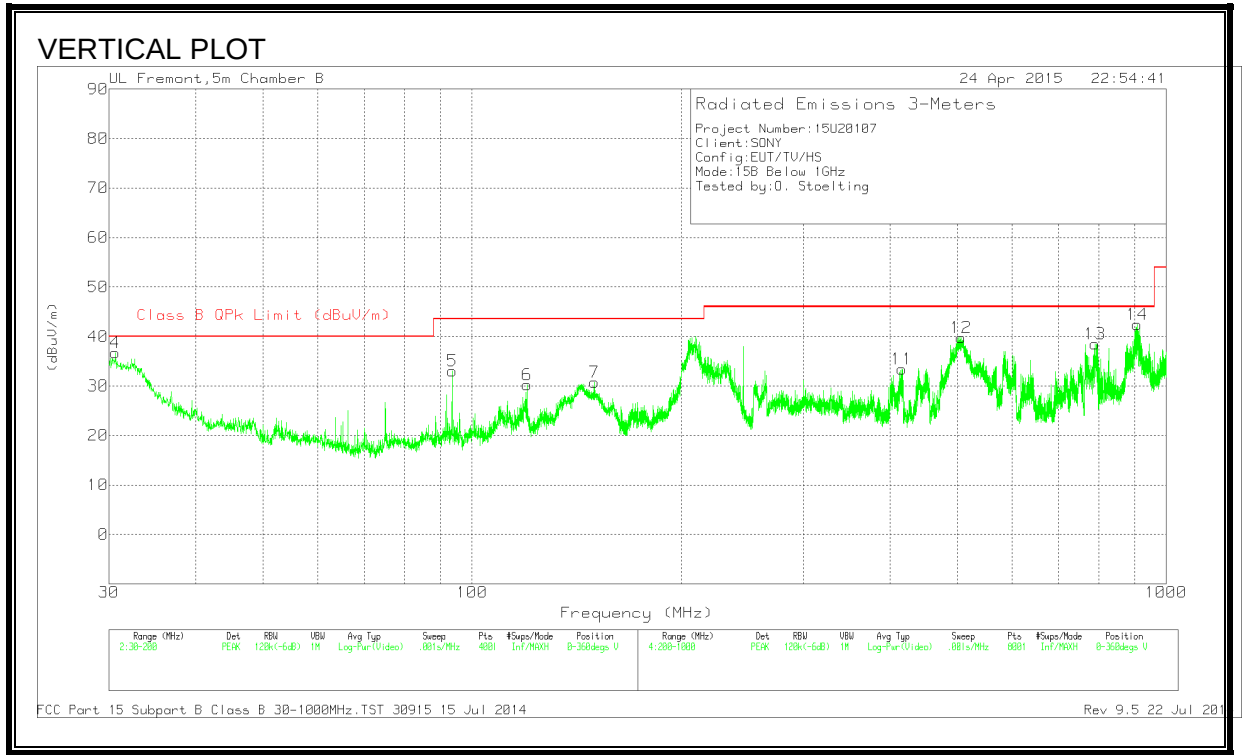
## HORIZONTAL AND VERTICAL DATA

| Marker | Frequency (MHz) | Meter Reading (dBuV) | Det | AF T243 (dB/m) | Amp/Cbl (dB) | Corrected Reading (dBuV/m) | Class B QPk Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|--------------|----------------------------|----------------------------|-------------|----------------|-------------|----------|
| 3      | 38.16           | 50.52                | PK  | 15.3           | -28.8        | 37.02                      | 40                         | -2.98       | 0-360          | 101         | V        |
| 1      | 65.36           | 52.29                | PK  | 7.9            | -28.5        | 31.69                      | 40                         | -8.31       | 0-360          | 300         | H        |
| 4      | 99.9975         | 51.73                | PK  | 10.2           | -28.1        | 33.83                      | 43.52                      | -9.69       | 0-360          | 101         | V        |
| 2      | 119.7175        | 51.95                | PK  | 14             | -27.9        | 38.05                      | 43.52                      | -5.47       | 0-360          | 300         | H        |
| 5      | 139.99          | 50.51                | PK  | 13.1           | -27.6        | 36.01                      | 43.52                      | -7.51       | 0-360          | 101         | V        |
| 6      | 160.0075        | 51.86                | PK  | 12.2           | -27.3        | 36.76                      | 43.52                      | -6.76       | 0-360          | 101         | V        |
| 7      | 200             | 43.38                | PK  | 12.7           | -27          | 29.08                      | 43.52                      | -14.44      | 0-360          | 101         | H        |
| 10     | 245             | 46.52                | PK  | 11.6           | -26.5        | 31.62                      | 46.02                      | -14.4       | 0-360          | 101         | V        |
| 11     | 300             | 45.95                | PK  | 13.4           | -26          | 33.35                      | 46.02                      | -12.67      | 0-360          | 200         | V        |
| 12     | 340             | 43.51                | PK  | 14.1           | -25.8        | 31.81                      | 46.02                      | -14.21      | 0-360          | 101         | V        |
| 8      | 410             | 42.5                 | PK  | 15.8           | -25.9        | 32.4                       | 46.02                      | -13.62      | 0-360          | 101         | H        |
| 9      | 961.7           | 33.12                | PK  | 22.9           | -22.4        | 33.62                      | 53.97                      | -20.35      | 0-360          | 300         | H        |

PK - Peak detector

**RADIATED EMISSIONS 30 TO 1000 MHz (WORST-CASE CONFIGURATION)**





## HORIZONTAL AND VERTICAL DATA

### Trace Markers

| Marker | Frequency (MHz) | Meter Reading (dBuV) | Det | AF T243 (dB/m) | Amp/Cbl (dB) | Corrected Reading (dBuV/m) | Class B QPk Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|--------------|----------------------------|----------------------------|-------------|----------------|-------------|----------|
| 4      | 30.6375         | 45.37                | PK  | 20.3           | -28.9        | 36.77                      | 40                         | -3.23       | 0-360          | 101         | V        |
| 1      | 75.0075         | 52.96                | PK  | 8              | -28.4        | 32.56                      | 40                         | -7.44       | 0-360          | 300         | H        |
| 5      | 93.6225         | 52.6                 | PK  | 8.5            | -28.1        | 33                         | 43.52                      | -10.52      | 0-360          | 101         | V        |
| 2      | 110.495         | 43.53                | PK  | 12.7           | -28          | 28.23                      | 43.52                      | -15.29      | 0-360          | 300         | H        |
| 6      | 119.9725        | 44.09                | PK  | 14             | -27.9        | 30.19                      | 43.52                      | -13.33      | 0-360          | 101         | V        |
| 7      | 149.9775        | 45.8                 | PK  | 12.5           | -27.5        | 30.8                       | 43.52                      | -12.72      | 0-360          | 101         | V        |
| 3      | 193.795         | 48.5                 | PK  | 11.9           | -27          | 33.4                       | 43.52                      | -10.12      | 0-360          | 101         | H        |
| 8      | 209.8           | 59.39                | PK  | 10.4           | -26.9        | 42.89                      | 43.52                      | -6.3        | 0-360          | 101         | H        |
| 9      | 246             | 55.07                | PK  | 11.6           | -26.5        | 40.17                      | 46.02                      | -5.85       | 0-360          | 101         | H        |
| 11     | 416.1           | 43.32                | PK  | 16.1           | -26          | 33.42                      | 46.02                      | -12.6       | 0-360          | 101         | V        |
| 10     | 450             | 48.5                 | PK  | 16.6           | -26          | 39.1                       | 46.02                      | -6.92       | 0-360          | 200         | H        |
| 12     | 506.1           | 47.64                | PK  | 17.8           | -25.7        | 39.74                      | 46.02                      | -6.28       | 0-360          | 101         | V        |
| 13     | 790             | 40.99                | PK  | 21.3           | -23.8        | 38.49                      | 46.02                      | -7.53       | 0-360          | 101         | V        |
| 14     | 908.3           | 42.79                | PK  | 22.5           | -22.9        | 42.39                      | 46.02                      | -3.63       | 0-360          | 101         | V        |

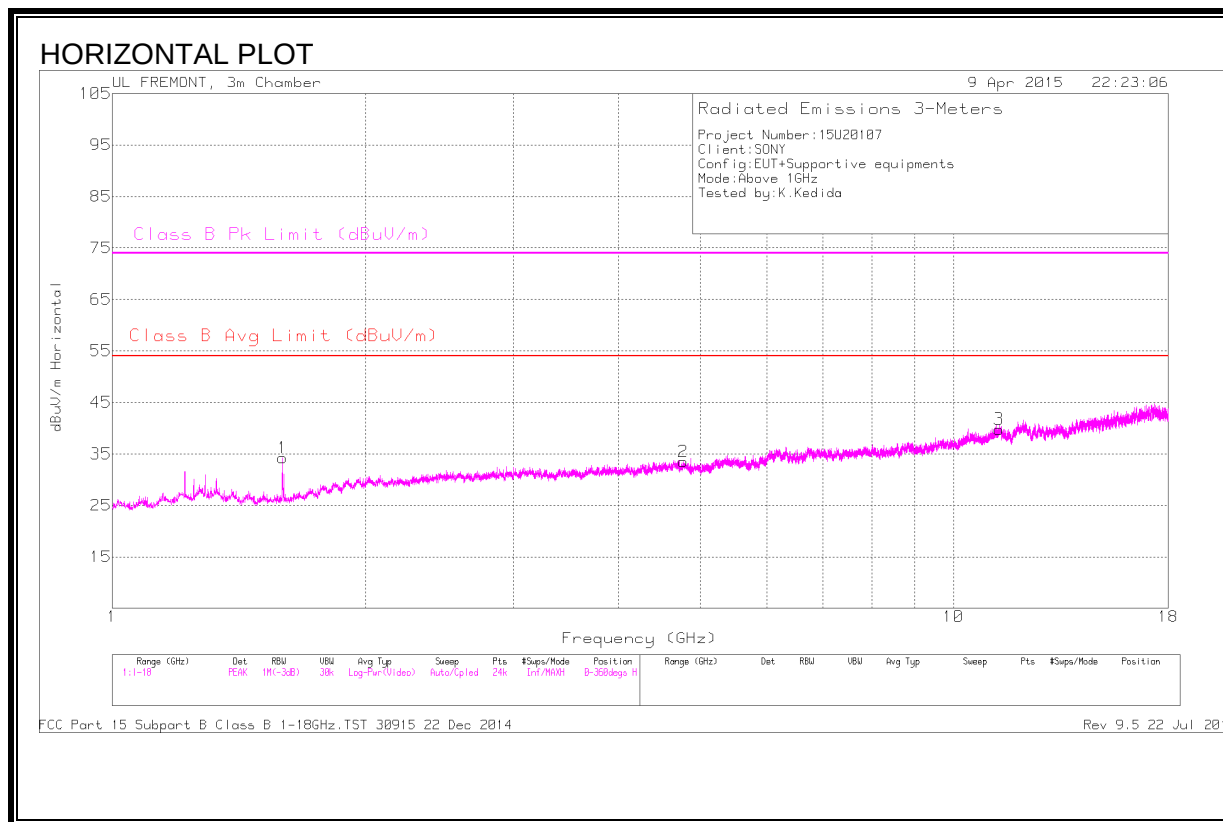
PK - Peak detector

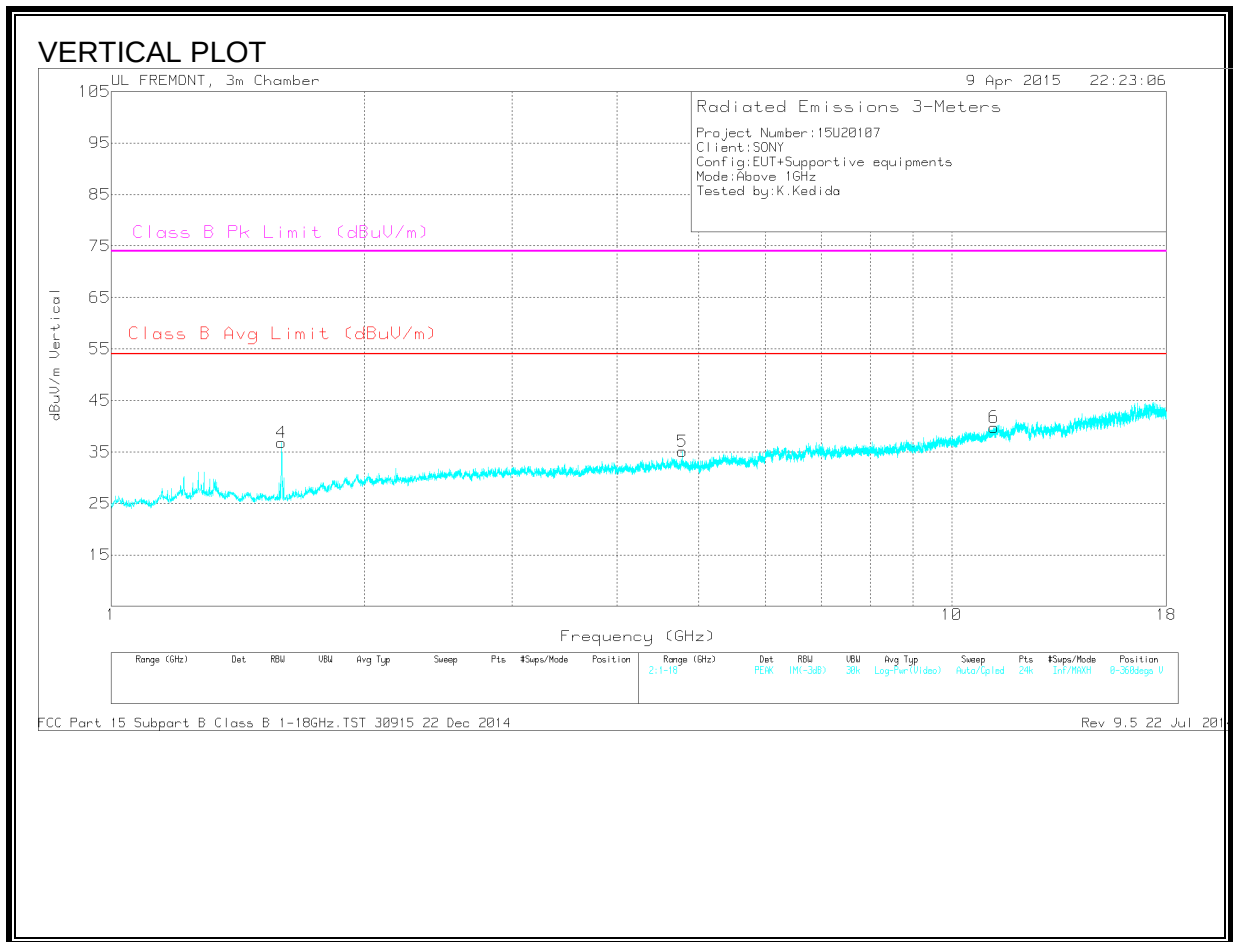
### Radiated Emissions

| Frequency (MHz) | Meter Reading (dBuV) | Det | AF T243 (dB/m) | Amp/Cbl (dB) | Corrected Reading (dBuV/m) | Class B QPk Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|-----|----------------|--------------|----------------------------|----------------------------|-------------|----------------|-------------|----------|
| 30.695          | 39.58                | QP  | 20.3           | -28.9        | 30.98                      | 40                         | -9.02       | 166            | 102         | V        |
| 209.8139        | 52.26                | QP  | 10.4           | -26.9        | 35.76                      | 43.52                      | -7.76       | 200            | 106         | H        |
| 908.4536        | 33.63                | QP  | 22.5           | -22.9        | 33.23                      | 46.02                      | -12.79      | 192            | 103         | V        |

QP - Quasi-Peak detector

**RADIATED EMISSIONS 1GHz to 18GHz (WORST-CASE CONFIGURATION)**

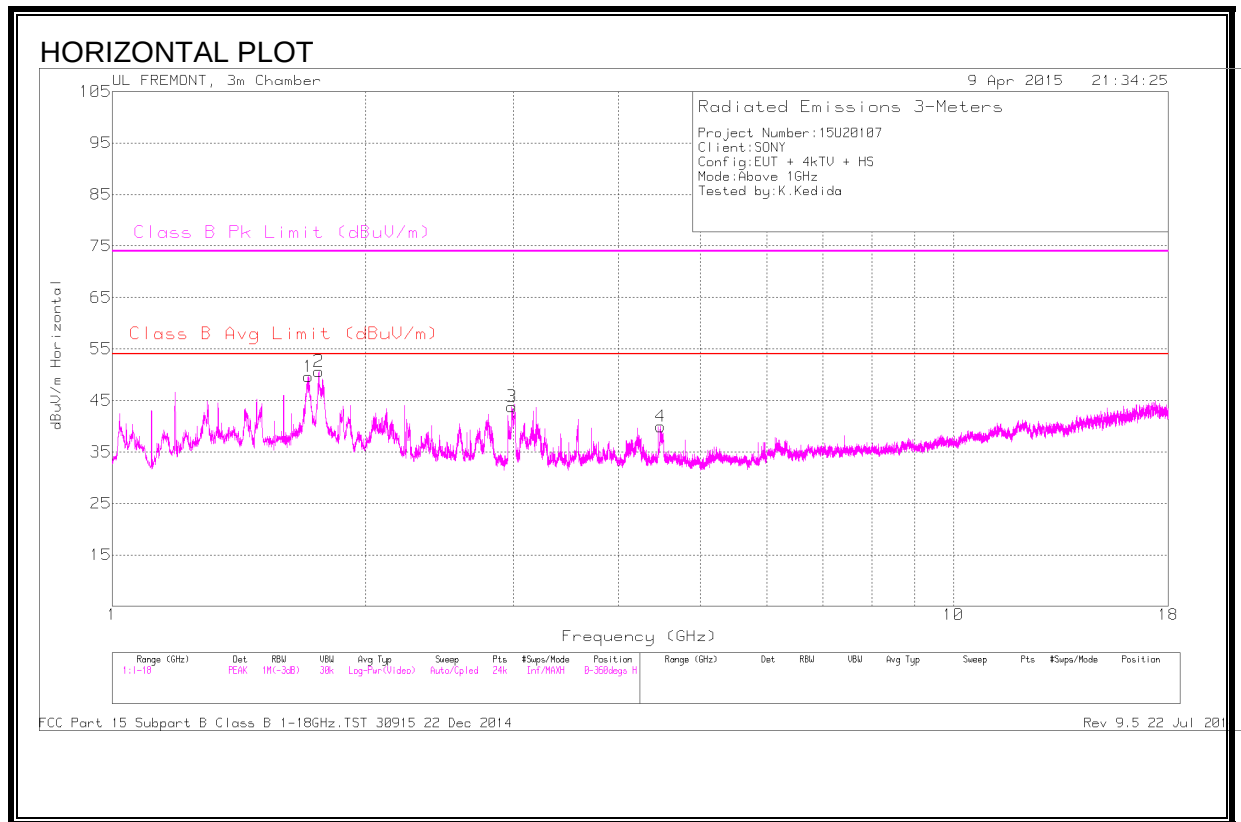


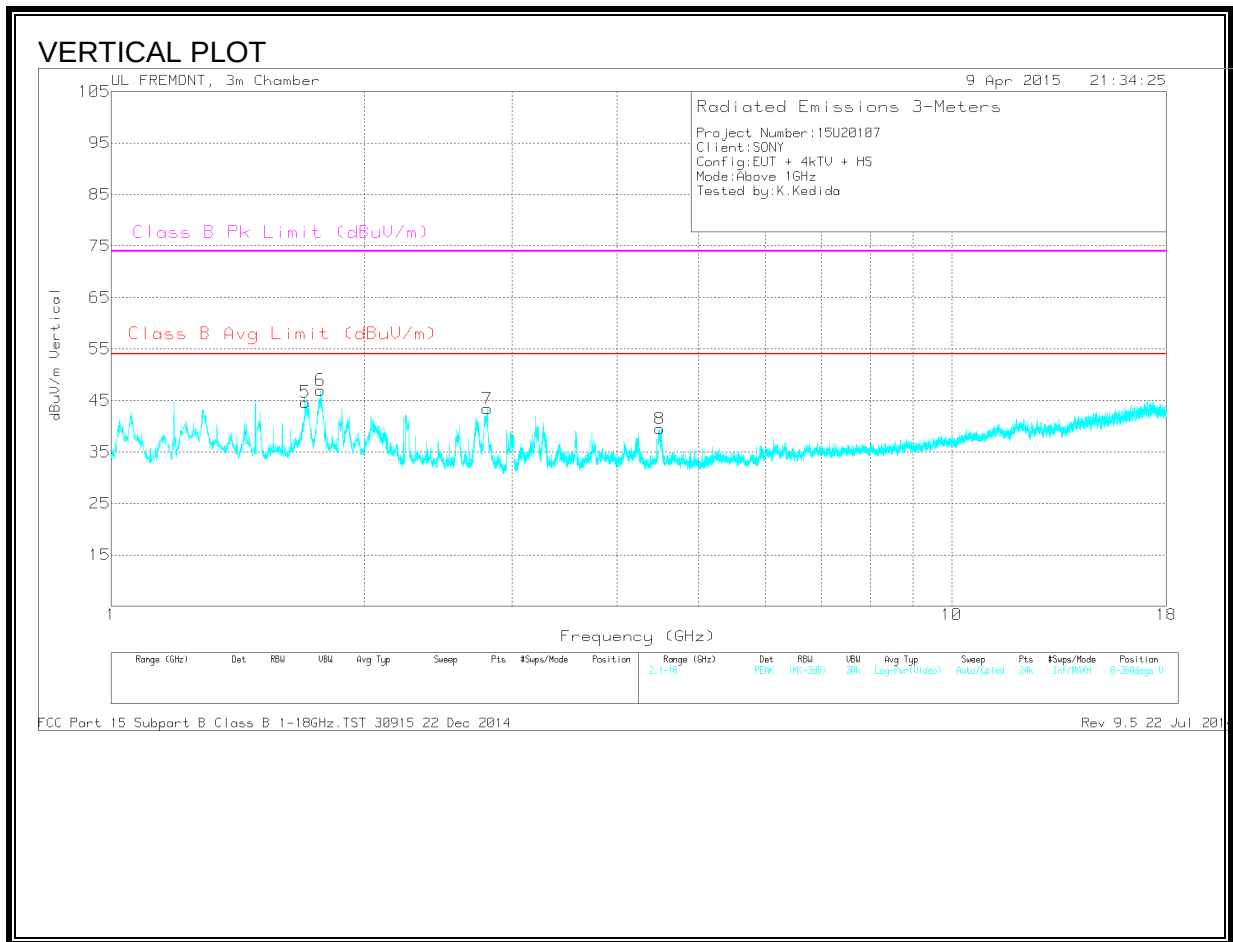


## HORIZONTAL AND VERTICAL DATA

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T119 (dB/m) | Amp/Cbl (dB) | Corrected Reading dBuV/m | Class B Avg Limit (dBuV/m) | Av(CISPR) Margin (dB) | Class B Pk Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|--------------|--------------------------|----------------------------|-----------------------|---------------------------|-------------|----------------|-------------|----------|
| 1      | 1.594           | 39.52                | PK  | 28             | -33.3        | 34.22                    | -                          | -                     | 74                        | -39.78      | 0-360          | 100         | H        |
| 4      | 1.595           | 42.11                | PK  | 28             | -33.3        | 36.81                    | -                          | -                     | 74                        | -37.19      | 0-360          | 200         | V        |
| 2      | 4.772           | 30.68                | PK  | 34             | -31.2        | 33.48                    | -                          | -                     | 74                        | -40.52      | 0-360          | 100         | H        |
| 5      | 4.779           | 32.28                | PK  | 34             | -31.2        | 35.08                    | -                          | -                     | 74                        | -38.92      | 0-360          | 200         | V        |
| 6      | 11.232          | 28.08                | PK  | 37.9           | -26.2        | 39.78                    | -                          | -                     | 74                        | -34.22      | 0-360          | 200         | V        |
| 3      | 11.332          | 28.37                | PK  | 38.1           | -26.7        | 39.77                    | -                          | -                     | 74                        | -34.23      | 0-360          | 100         | H        |

PK - Peak detector

**RADIATED EMISSIONS 1GHz to 18GHz (WORST-CASE CONFIGURATION)**



## HORIZONTAL AND VERTICAL DATA

### Trace Markers

| Marker | Frequenc<br>y<br>(GHz) | Meter<br>Reading<br>(dBuV) | Det | AF T119<br>(dB/m) | Amp/Cbl<br>(dB) | Correcte<br>d<br>Reading<br>dBuV/m | Class B<br>Avg Limit<br>(dBuV/m) | Av(CISPR<br>R)Margin<br>(dB) | Class B<br>Pk Limit<br>(dBuV/m) | Margin<br>(dB) | Azimuth<br>(Degs) | Height<br>(cm) | Polarity |
|--------|------------------------|----------------------------|-----|-------------------|-----------------|------------------------------------|----------------------------------|------------------------------|---------------------------------|----------------|-------------------|----------------|----------|
| 5      | 1.703                  | 48.95                      | PK  | 29                | -33.3           | 44.65                              | -                                | -                            | 74                              | -29.35         | 0-360             | 100            | V        |
| 1      | 1.71                   | 53.74                      | PK  | 29.1              | -33.2           | 49.64                              | -                                | -                            | 74                              | -24.36         | 0-360             | 200            | H        |
| 2      | 1.761                  | 54.23                      | PK  | 29.7              | -33.3           | 50.63                              | -                                | -                            | 74                              | -23.37         | 0-360             | 200            | H        |
| 6      | 1.775                  | 50.27                      | PK  | 29.9              | -33.2           | 46.97                              | -                                | -                            | 74                              | -27.03         | 0-360             | 200            | V        |
| 7      | 2.803                  | 43.38                      | PK  | 32.6              | -32.6           | 43.38                              | -                                | -                            | 74                              | -30.62         | 0-360             | 200            | V        |
| 3      | 2.986                  | 43.49                      | PK  | 32.7              | -32.4           | 43.79                              | -                                | -                            | 74                              | -30.21         | 0-360             | 100            | H        |
| 4      | 4.484                  | 38.14                      | PK  | 33.7              | -31.9           | 39.94                              | -                                | -                            | 74                              | -34.06         | 0-360             | 100            | H        |
| 8      | 4.495                  | 37.77                      | PK  | 33.8              | -32.1           | 39.47                              | -                                | -                            | 74                              | -34.53         | 0-360             | 100            | V        |

PK - Peak detector

### Radiated Emissions

| Frequenc<br>y<br>(GHz) | Meter<br>Reading<br>(dBuV) | Det | AF T119<br>(dB/m) | Amp/Cbl<br>(dB) | Correcte<br>d<br>Reading<br>dBuV/m | Class B<br>Avg Limit<br>(dBuV/m) | Av(CISPR<br>R)Margin<br>(dB) | Class B<br>Pk Limit<br>(dBuV/m) | Margin<br>(dB) | Azimuth<br>(Degs) | Height<br>(cm) | Polarity |
|------------------------|----------------------------|-----|-------------------|-----------------|------------------------------------|----------------------------------|------------------------------|---------------------------------|----------------|-------------------|----------------|----------|
| 1.709                  | 42.93                      | Av  | 29.1              | -33.2           | 38.83                              | 54                               | -15.17                       | 74                              | -35.17         | 141               | 396            | H        |
| 1.76                   | 43.52                      | Av  | 29.7              | -33.3           | 39.92                              | 54                               | -14.08                       | 74                              | -34.08         | 270               | 122            | H        |
| 1.776                  | 40.81                      | Av  | 29.9              | -33.2           | 37.51                              | 54                               | -16.49                       | 74                              | -36.49         | 199               | 221            | V        |

PK - Peak detector

Av - average detection

## 7.2. AC MAINS LINE CONDUCTED EMISSIONS

### TEST PROCEDURE

ANSI C63.4: 2009

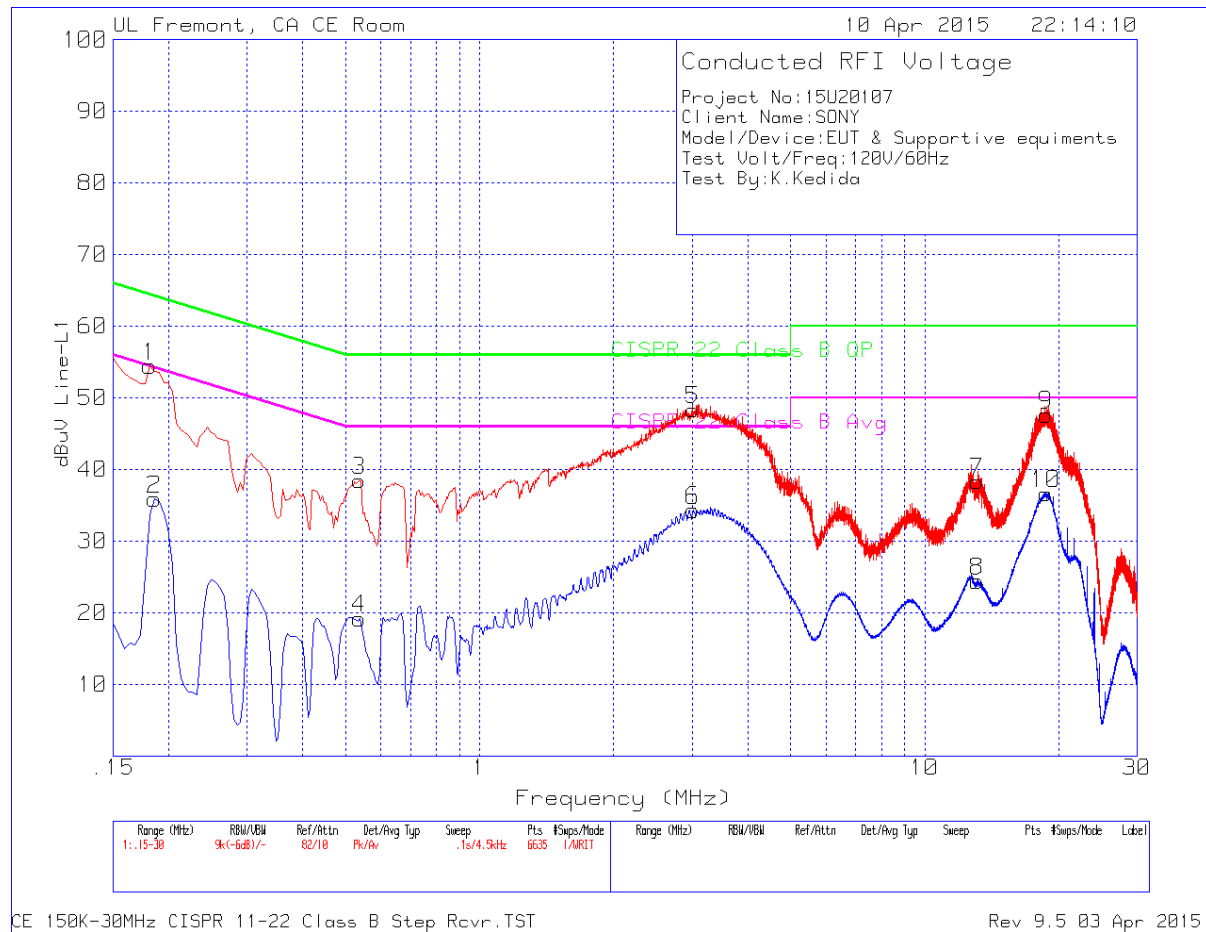
### LIMIT

§15.107 (a) Except for Class A digital devices, for equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table, as measured using a 50  $\mu$ H/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the band edges.

| Frequency range<br>(MHz)                                                                                                                                                         | Limits (dB $\mu$ V) |          |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|----------|
|                                                                                                                                                                                  | Quasi-peak          | Average  |
| 0.15 to 0.50                                                                                                                                                                     | 66 to 56            | 56 to 46 |
| 0.50 to 5                                                                                                                                                                        | 56                  | 46       |
| 5 to 30                                                                                                                                                                          | 60                  | 50       |
| Notes:<br>1. The lower limit shall apply at the transition frequencies<br>2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz. |                     |          |

### RESULTS

## Line-L1 .15 - 30MHz



**LINE 1 RESULTS**

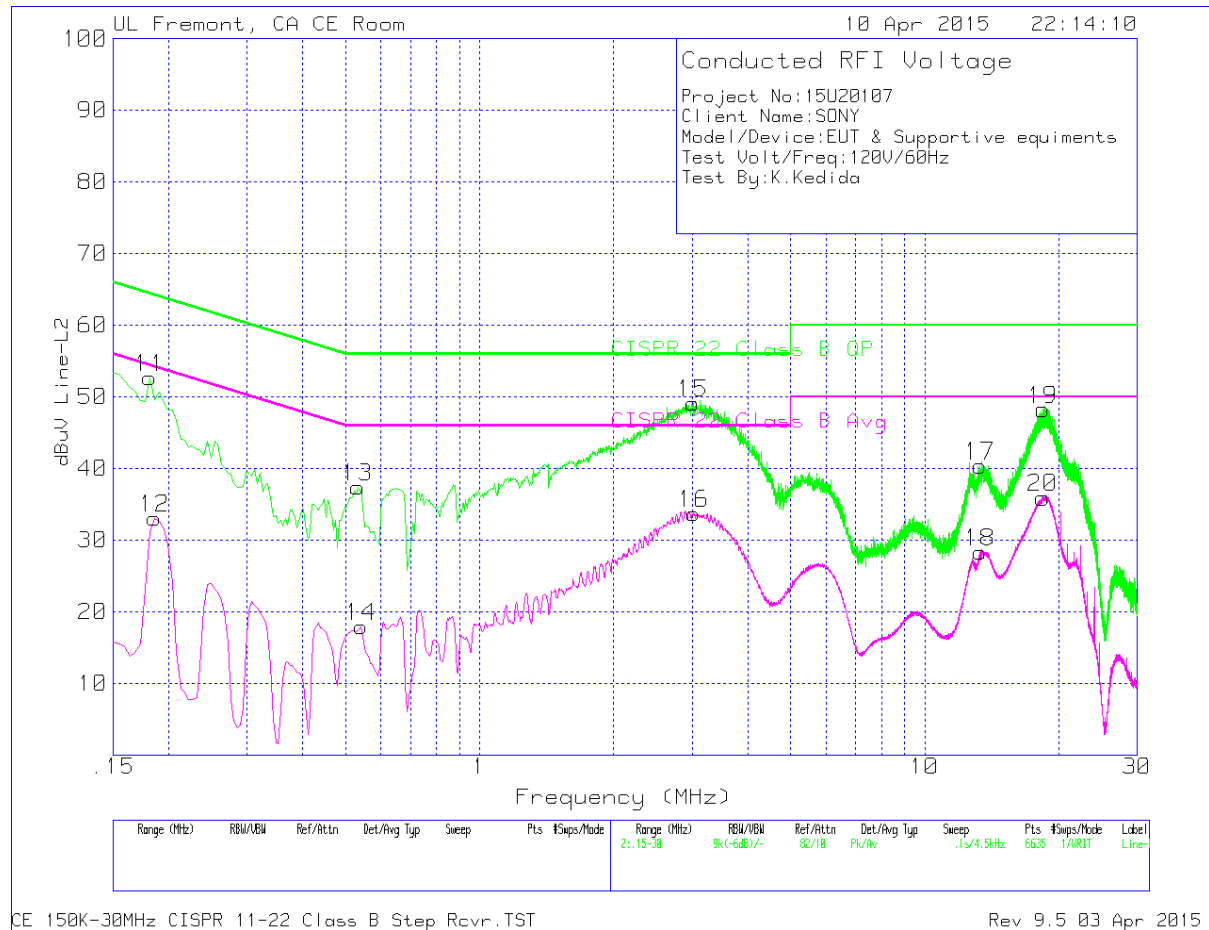
Range 1: Line-L1 .15 - 30MHz

| Marker | Frequency<br>(MHz) | Meter<br>Reading<br>(dBuV) | Det | T24 IL L1 | LC Cables<br>1&3 | Corrected<br>Reading<br>dBuV | CISPR 22<br>Class B QP | Margin<br>(dB) | CISPR 22<br>Class B<br>Avg | Margin<br>(dB) |
|--------|--------------------|----------------------------|-----|-----------|------------------|------------------------------|------------------------|----------------|----------------------------|----------------|
| 1      | .1815              | 53.37                      | Pk  | 1.1       | 0                | 54.47                        | 64.42                  | -9.95          | <b>54.42</b>               | <b>.05</b>     |
| 2      | .186               | 34.91                      | Av  | 1         | 0                | 35.91                        | 64.21                  | -28.3          | 54.21                      | -18.3          |
| 3      | .537               | 38.17                      | Pk  | .3        | 0                | 38.47                        | 56                     | -17.53         | 46                         | -7.53          |
| 4      | .537               | 18.91                      | Av  | .3        | 0                | 19.21                        | 56                     | -36.79         | 46                         | -26.79         |
| 5      | 3.012              | 48.07                      | Pk  | .2        | .1               | 48.37                        | 56                     | -7.63          | <b>46</b>                  | <b>2.37</b>    |
| 6      | 3.0165             | 34.04                      | Av  | .2        | .1               | 34.34                        | 56                     | -21.66         | 46                         | -11.66         |
| 7      | 13.11              | 37.95                      | Pk  | .2        | .2               | 38.35                        | 60                     | -21.65         | 50                         | -11.65         |
| 8      | 13.11              | 24.05                      | Av  | .2        | .2               | 24.45                        | 60                     | -35.55         | 50                         | -25.55         |
| 9      | 18.7215            | 47.13                      | Pk  | .3        | .2               | 47.63                        | 60                     | -12.37         | 50                         | -2.37          |
| 10     | 18.7125            | 36.17                      | Av  | .3        | .2               | 36.67                        | 60                     | -23.33         | 50                         | -13.33         |

Pk - Peak detector

Av - Average detection

## Line-L2 .15 - 30MHz



**LINE 2 RESULTS**

Range 2: Line-L2 .15 - 30MHz

| Marker | Frequency<br>(MHz) | Meter<br>Reading<br>(dBuV) | Det | T24 IL L2 | LC Cables<br>2&3 | Corrected<br>Reading<br>dBuV | CISPR 22<br>Class B QP | Margin<br>(dB) | CISPR 22<br>Class B<br>Avg | Margin<br>(dB) |
|--------|--------------------|----------------------------|-----|-----------|------------------|------------------------------|------------------------|----------------|----------------------------|----------------|
| 11     | .1815              | 51.49                      | Pk  | 1.2       | 0                | 52.69                        | 64.42                  | -11.73         | 54.42                      | -1.73          |
| 12     | .186               | 31.98                      | Av  | 1.1       | 0                | 33.08                        | 64.21                  | -31.13         | 54.21                      | -21.13         |
| 13     | .5325              | 37.1                       | Pk  | .3        | 0                | 37.4                         | 56                     | -18.6          | 46                         | -8.6           |
| 14     | .5415              | 17.65                      | Av  | .3        | 0                | 17.95                        | 56                     | -38.05         | 46                         | -28.05         |
| 15     | 3.0165             | 48.82                      | Pk  | .2        | .1               | 49.12                        | 56                     | -6.88          | 46                         | -3.12          |
| 16     | 3.03               | 33.44                      | Av  | .2        | .1               | 33.74                        | 56                     | -22.26         | 46                         | -12.26         |
| 17     | 13.317             | 39.99                      | Pk  | .2        | .2               | 40.39                        | 60                     | -19.61         | 50                         | -9.61          |
| 18     | 13.317             | 27.91                      | Av  | .2        | .2               | 28.31                        | 60                     | -31.69         | 50                         | -21.69         |
| 19     | 18.438             | 47.76                      | Pk  | .3        | .2               | 48.26                        | 60                     | -11.74         | 50                         | -1.74          |
| 20     | 18.4065            | 35.44                      | Av  | .3        | .2               | 35.94                        | 60                     | -24.06         | 50                         | -14.06         |

Pk - Peak detector

Av - Average detection