



## *FCC COMPLIANCE TEST REPORT*

Technical Statement of Conformity  
in accordance with 47 CFR Part 15 Subpart C

### **The product**

|                             |                       |
|-----------------------------|-----------------------|
| <b>Equipment Under Test</b> | : smartScanndy AutoID |
| <b>Model Number</b>         | : smartScanndy 2      |
| <b>Product Series</b>       | : N/A                 |
| <b>Report Number</b>        | : HA130548-FD         |
| <b>Issue Date</b>           | : 15-Oct-2013         |
| <b>Test Result</b>          | : Compliance          |

is produced by  
**advanced PANMOBIL Systems GmbH & Co. KG**  
**Hansestrasse 91, D- 51149 Koeln, Germany**



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SL2-IS-E-0023, SL2-R1-E-0023,  
SL2-R2-E-0023, SL2-L1-E-0023

**FCC Designation No.:** TW1071  
**TAF Accreditation No.:** 1163  
**VCCI Registration No.:** R-2156, C-2329, T-219

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## Test Result Certification

|                                |  |
|--------------------------------|--|
| <b>Applicant</b>               | : advanced PANMOBIL Systems GmbH & Co. KG  |
| <b>Address of Applicant</b>    | : Hansestrasse 91, D- 51149 Koeln, Germany |
| <b>Manufacturer</b>            | : advanced PANMOBIL Systems GmbH & Co. KG  |
| <b>Address of Manufacturer</b> | : Hansestrasse 91, D- 51149 Koeln, Germany |
| <b>Trade Name</b>              | : N/A                                      |
| <b>Equipment Under Test</b>    | : smartScanndy AutoID                      |
| <b>Model Number</b>            | : smartScanndy 2                           |
| <b>Product Series</b>          | : N/A                                      |
| <b>FCC ID</b>                  | : 2AACD-SMARTSCANNDY                       |
| <b>Filing Type</b>             | : Certification                            |
| <b>Sample Received Date</b>    | : 17-Sep-2013                              |
| <b>Test Standard</b>           | :  |

☒ FCC Part 15 Subpart C §15.247

**Deviations from standard test methods & any other specifications : NONE**

**Remark:**

1. This report details the results of the test carried out on one sample.
2. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.4 (2009) and the energy emitted by the sample EUT tested as described in this report is in compliance with the requirements of FCC Rules Part 15.203, 15.207, 15.209, 15.247.
3. This report applies to the above sample only and shall not be reproduced in part without written approval of HongAn Technology Co., Ltd.

**Documented by:**

**Kay Wang/ ADM. Dept Staff**

**2013-11-29**

**Tested by:**

**Kidd Liao/ ENG. Dept. Staff**

**2013-10-09**

**Approved by:**

**Peter Chin / Section Manager**

**Date: 2013-11-29**



## Summary of Test Result

|   | Test Item                      | Applicable Standard                   | Test Result |
|---|--------------------------------|---------------------------------------|-------------|
| 1 | Antenna Requirement            | FCC part 15 subpart C §203            | Compliance  |
| 2 | Conducted limits               | FCC part 15 subpart C §207            | Compliance  |
| 3 | Radiated emission limits       | FCC part 15 subpart C §209            | Compliance  |
| 4 | Hopping Frequency Separation   | FCC part 15 subpart C §247(a)(1)      | Compliance  |
| 5 | Number of Hopping Channels     | FCC part 15 subpart C §247(a)(1)      | Compliance  |
| 6 | Average Time of Occupancy      | FCC part 15 subpart C §247(a)(1)(iii) | Compliance  |
| 7 | Peak Output Power              | FCC part 15 subpart C §247(b)         | Compliance  |
| 8 | 100kHz Bandwidth of Band Edges | FCC part 15 subpart C §247(d)         | Compliance  |

# 1 General Description

## 1.1 Description of EUT

|  |   |  |      |    |      |    |      |    |      |
|--|---|--|------|----|------|----|------|----|------|
| <b>Equipment Under Test</b>              | : | smartScannly AutoID  |      |    |      |    |      |    |      |
| <b>Model Number of EUT</b>               | : | smartScannly 2   |      |    |      |    |      |    |      |
| <b>Product Series</b>                    | : | N/A  |      |    |      |    |      |    |      |
| <b>Power Supply</b>                      | : | Input : USB 5 Vdc<br>Li-ion Battery Pack Output : Input <u>3.6</u> Vdc, <u>1050</u> mAh. |      |    |      |    |      |    |      |
| <b>Frequency Range</b>                   | : | 2402~2480 MHz  |      |    |      |    |      |    |      |
| <b>Transmit Power</b>                    | : | 2.61 dBm   |      |    |      |    |      |    |      |
| <b>Number of Channels</b>                | : | 79 Channels  |      |    |      |    |      |    |      |
| <b>Carrier Frequency of Each Channel</b> | : | 00   | 2402 | 20 | 2422 | 40 | 2442 | 60 | 2462 |
|  |   | 01   | 2403 | 21 | 2423 | 41 | 2443 | 61 | 2463 |
|  |   | 02   | 2404 | 22 | 2424 | 42 | 2444 | 62 | 2464 |
|  |   | 03   | 2405 | 23 | 2425 | 43 | 2445 | 63 | 2465 |
|  |   | 04   | 2406 | 24 | 2426 | 44 | 2446 | 64 | 2466 |
|  |   | 05   | 2407 | 25 | 2427 | 45 | 2447 | 65 | 2467 |
|  |   | 06   | 2408 | 26 | 2428 | 46 | 2448 | 66 | 2468 |
|  |   | 07   | 2409 | 27 | 2429 | 47 | 2449 | 67 | 2469 |
|  |   | 08   | 2410 | 28 | 2430 | 48 | 2450 | 68 | 2470 |
|  |   | 09   | 2411 | 29 | 2431 | 49 | 2451 | 69 | 2471 |
|  |   | 10   | 2412 | 30 | 2432 | 50 | 2452 | 70 | 2472 |
|  |   | 11   | 2413 | 31 | 2433 | 51 | 2453 | 71 | 2473 |
|  |   | 12   | 2414 | 32 | 2434 | 52 | 2454 | 72 | 2474 |
|  |   | 13   | 2415 | 33 | 2435 | 53 | 2455 | 73 | 2475 |
|  |   | 14   | 2416 | 34 | 2436 | 54 | 2456 | 74 | 2476 |
|  |   | 15   | 2417 | 35 | 2437 | 55 | 2457 | 75 | 2477 |
|  |   | 16   | 2418 | 36 | 2438 | 56 | 2458 | 76 | 2478 |
|  |   | 17   | 2419 | 37 | 2439 | 57 | 2459 | 77 | 2479 |
|  |   | 18   | 2420 | 38 | 2440 | 58 | 2460 | 78 | 2480 |
|  |   | 19   | 2421 | 39 | 2441 | 59 | 2461 | -  | -    |
| <b>Antenna Specification</b>             | : | Printed Antenna/ Gain: 1.8 dBi   |      |    |      |    |      |    |      |
| <b>Modulation Technique</b>              | : | FHSS<br>Bluetooth : GFSK<br>Bluetooth EDR : $\pi/4$ -DQPSK, 8-DPSK                       |      |    |      |    |      |    |      |
| <b>Transmit Data Rate</b>                | : | Bluetooth : 1Mbps<br>Bluetooth EDR : 2/3 Mbps  |      |    |      |    |      |    |      |



|                      |   |
|----------------------|---|
| <b>Specification</b> | <b>Dimensions :</b> 115 mm (L) X 53 mm (W) X 30 mm (H)<br><b>Weight :</b> 90g<br><b>Function :</b> The EUT is a barcode scanner, using BT as its wireless transmitting technology.<br><b>※For more detail specification, please refer to the User Manual.</b> |
|----------------------|---|

## 1.2 Test Instruments

### 3.3.1. Instruments Used for Measurement

HA1

| Instrument Name              | Manufacture Mode | Model Number     | Serial Number | Last Cal. Date | Next Cal. Date |
|------------------------------|------------------|------------------|---------------|----------------|----------------|
| RF Amplifier                 | AR               | 15S1G3           | 306578        | 11-AUG-2012    | 11-AUG-2013    |
| EMI Receiver                 | R&S              | ESCI             | 100615        | 03-MAR-2013    | 03-MAR-2014    |
| Spectrum Analyzer            | R&S              | FSL6             | 100323        | 11-JUN-2012    | 11-JUN-2013    |
| Spectrum Analyzer            | Advantest        | R3172            | 101202158     | 24-JUN-2012    | 24-JUN-2013    |
| Preamplifier                 | WIRELESS         | FPA-6592G        | 060009        | 09-JUL-2012    | 09-JUL-2013    |
| Preamplifier                 | HD               | HD17187          | 004           | 04-AUG-2012    | 04-AUG-2013    |
| Bilog Antenna                | TESEQ            | CBL6111D         | 25769         | 03-MAR-2013    | 03-MAR-2014    |
| Bilog Antenna                | Schaffner        | CBL6112B         | 2860          | 12-AUG-2012    | 12-AUG-2013    |
| Double-Ridged Waveguide Horn | EMCO             | 3115             | 9912-5992     | 04-MAY-2013    | 04-MAY-2014    |
| Temp. & Humidity Chamber     | Giant Force      | GTH-150-20-SP-AR | MMA0907-012   | 22-JUL-2012    | 22-JUL-2013    |

※ The test equipments used are calibrated and can be traced to National ITRI and International Standards.



### 1.3 Auxiliary Equipments

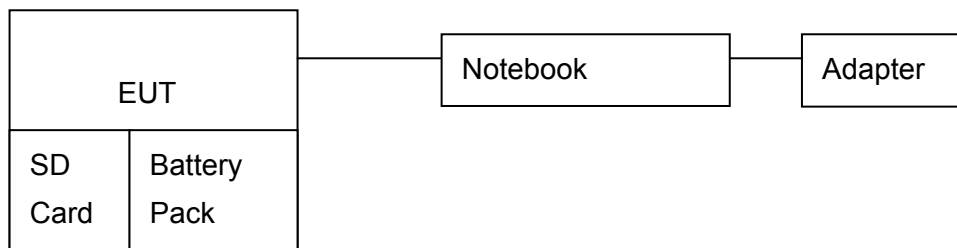
#### 1.3.1. Provided by HongAn Technology Co., Ltd. for Emission Test.

| No. | Equipment | Model No. | Serial No.     | EMC<br>Approved                                | Brand | Description                                   |                                      |
|-----|-----------|-----------|----------------|--|-------|---|--------------------------------------|
|     |           |           |                |  |       | Data Cable                                    | Power Cable                          |
| 01  | Notebook  | N61J      | N61JV-021A520M | CE,FCC,<br>C-TICK<br>N13219,<br>BSMI<br>R31018 | ASUS  | Adapter to<br>Notebook<br>Unshielded*1.8<br>m | AC to Adapter<br>Unshielded*1.8<br>m |

#### 1.3.2. Provided by the Manufacturer

| No. | Equipment    | Model No.        | Serial No.  | EMC<br>Approved | Brand     | Description |             |
|-----|--------------|------------------|-------------|-----------------|-----------|-------------|-------------|
|     |              |                  |             |                 |           | Data Cable  | Power Cable |
| 01  | MicroSD Card | MM8GR01GJCCA-MGI | F0230000050 | CE              | Transcend | N/A         | N/A         |

### 1.4 EUT SETUP



Note: Main Test Sample: smartScannndy 2

### 1.5 Identifying the Final Test Mode

1. Mode 1: TX BT mode (1Mbps) CH 00.
2. Mode 2: TX BT mode (1Mbps) CH 39.
3. Mode 3: TX BT mode (1Mbps) CH 78.
4. Mode 4: TX BT EDR mode (2Mbps) CH 00.
5. Mode 5: TX BT EDR mode (2Mbps) CH 39.
6. Mode 6: TX BT EDR mode (2Mbps) CH 78.
7. Mode 7: TX BT EDR mode (3Mbps) CH 00.
8. Mode 8: TX BT EDR mode (3Mbps) CH 39.
9. Mode 9: TX BT EDR mode (3Mbps) CH 78.
10. Mode 10: RX mode.

Note:

1. To access into different Bluetooth modes, the EUT is connected to Notebook through USB cable. Notebook executes PUTTY testing program to control the Bluetooth function.
2. EUT has been evaluated placing in all three orthogonal directions. In horizontal position, the EUT



was most likely to cause maximum unwanted disturbance. Therefore, the final assessments were performed in horizontal position.

3. After pre-test, we identified that the Mode 9 (the worst case) was most likely to cause maximum unwanted disturbance on 30~1GHz. Mode 10 (the worst case) was most likely to cause maximum unwanted disturbance on 1~26.5 GHz. Therefore, the Final Assessments were performed for the worst cases, respectively. All pre-test data show at appendix.
4. Channel Low (2402 MHz), Mid (2441 MHz) and High (2480 MHz) were chosen for full testing.
5. According to its specifications, the EUT must comply with the requirements of the Section 15.203, 15.207, 15.209 and 15.247 under the FCC Rules Part 15 Subpart C.

Remark:

The EUT could perform scanning function through USB connection. In real world, however, when using USB mode, Bluetooth function will be disabled. In other words, Bluetooth function could only work when powering by battery.

## 1.6 Final Test Mode

1. Radiated Emission (30~960MHz): Mode 9.
2. Radiated Emission (above 960MHz): Mode 10.
3. Conducted Emission: Mode 5.

## 1.7 Condition of Power Supply

DC 3.6 V, 1050 mAh (Li-ion battery pack)

## 1.8 EUT Configuration

1. Setup the EUT as shown in Sec.1.4 Block Diagram.
2. Turn on the power of all equipments.
3. Activate the selected Final Test Mode.

## 1.9 Test Methodology

The tests documented in this report were performed in accordance with ANSI C63.4 (2009) and FCC CFR 47 2.1046, 2.1047, 2.1049, 2.1051, 2.1053, 2.1055, 2.1057, 15.203, 15.207, 15.209 and 15.247.

## 1.10 General Test Procedures

### Conducted Emissions

The EUT is placed on the turntable, which is 0.8 m above ground plane. According to the requirements in Section 13.3 of ANSI C63.4 (2009) Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-peak and average detector modes.

### Radiated Emissions

The EUT is placed on a turn table, which is 0.8 m above ground plane. The turntable shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3 m away from the receiving antenna, which varied from 1 m to 4 m to find out the highest emission. And also, each emission was

to be maximized by changing the polarization of receiving antenna both horizontal and vertical. The EUT was designed to be mounted on back of front seat, according to the requirements in Section 13.4.1 of ANSI C 63.4 (2009), only one axe of the EUT has to be measured.

### 1.11 Modification

N/A

### 1.12 FCC Part 15.205 restricted bands of operations

(a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

| MHz                      | MHz                 | MHz           | GHz              |
|--------------------------|---------------------|---------------|------------------|
| 0.090-0.110              | 16.42-16.423        | 399.9-410     | 4.5-5.15         |
| <sup>1</sup> 0.495-0.505 | 16.69475-16.69525   | 608-614       | 5.35-5.46        |
| 2.1735-2.1905            | 16.80425-16.80475   | 960-1240      | 7.25-7.75        |
| 4.125-4.128              | 25.5-25.67          | 1300-1427     | 8.025-8.5        |
| 4.17725-4.17775          | 37.5-38.25          | 1435-1626.5   | 9.0-9.2          |
| 4.20725-4.20775          | 73-74.6             | 1645.5-1646.5 | 9.3-9.5          |
| 6.215-6.218              | 74.8-75.2           | 1660-1710     | 10.6-12.7        |
| 6.26775-6.26825          | 108-121.94          | 1718.8-1722.2 | 13.25-13.4       |
| 6.31175-6.31225          | 123-138             | 2200-2300     | 14.47-14.5       |
| 8.291-8.294              | 149.9-150.05        | 2310-2390     | 15.35-16.2       |
| 8.362-8.366              | 156.52475-156.52525 | 2483.5-2500   | 17.7-21.4        |
| 8.37635-8.38675          | 156.7-156.9         | 2690-2900     | 22.01-23.12      |
| 8.41425-8.41475          | 162.0125-167.17     | 3260-3267     | 23.6-24.0        |
| 12.29-12.293             | 167.72-173.2        | 3332-3339     | 31.2-31.8        |
| 12.51975-12.52025        | 240-285             | 3345.8-3358   | 36.43-36.5       |
| 12.57675-12.57725        | 322-335.4           | 3600-4400     | ( <sup>2</sup> ) |
| 13.36-13.41              |                     |               |                  |

<sup>1</sup> Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz

<sup>2</sup> Above 38.6

(b) Except as provided in paragraphs (d) and (e), the field strength of emissions appearing within these frequency bands shall not exceed the limits shown in Section 15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in Section 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements.



## 1.13 Qualification of Test Facility

**BSMI Certificate No.** : SL2-IS-E-0023, SL2-IN-E-0023, SL2-R1-E-0023, SL2-R2-E-0023,  
SL2-A1-E-0023, SL2-L1-E-0023.

**FCC Designation No.** : TW1071

**TAF Accreditation No.** : 1163

**VCCI Certificate No.** : R-2156, C-2329, T-219



## 2 Power line Conducted Emission Measurement

### 2.1 Test Instruments

Refer to Sec. 1.2 Test Instruments.

### 2.2 Test Arrangement and Procedure

1. The EUT was placed on a table, which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. Repeat above procedures until all frequency measured were complete.

### 2.3 Limit (§ 15.207)

For an intentional radiator which 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 250 microvolts (The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz). The limits at specific frequency range is listed as follows:

| Frequency (MHz) | Limits (dBuV)     |                |
|-----------------|-------------------|----------------|
|                 | Q.P. (Quasi-Peak) | A.V. (Average) |
| 0.15 to 0.50    | 66 to 56          | 56 to 46       |
| 0.50 to 5.0     | 56                | 46             |
| 5.0 to 30       | 60                | 50             |

Compliance with this provision shall be based on the measurement of the radio frequency voltage between each power line (LINE and NEUTRAL) and ground at the power terminals.

### 2.4 Test Result

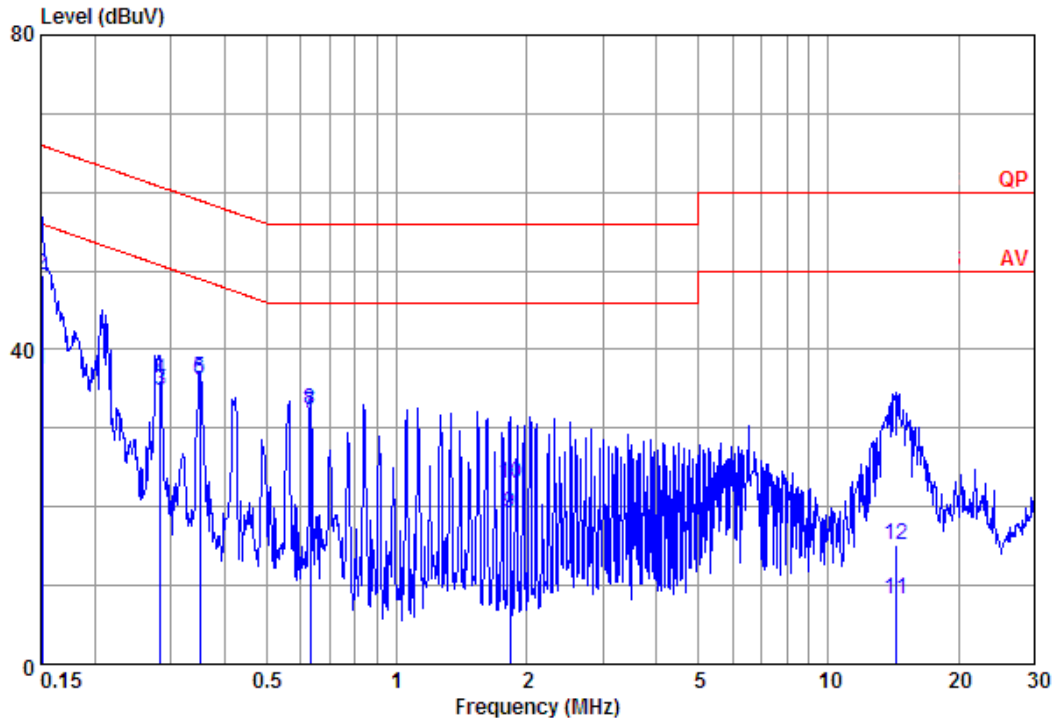
N/A.

#### Compliance

The final test data are shown on the following page(s).

## Conducted Emission Test Data

Test Date : 2013-11-08 Power Line : Line  
 Temperature : 26°C Humidity : 33%

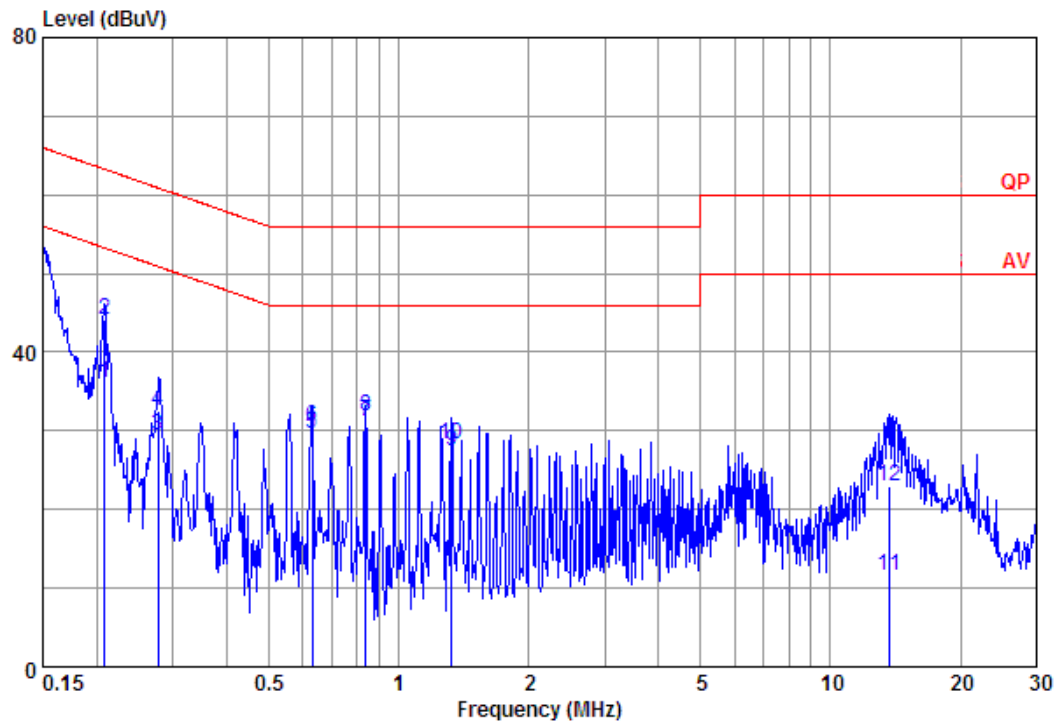


|    | Freq    | Reading | C.F  | Result | Limit | Margin | Remark  |
|----|---------|---------|------|--------|-------|--------|---------|
|    | MHz     | dBuV    | dBuV | dB     | dBuV  | dB     |         |
| 1  | 0.151   | 37.27   | 0.10 | 37.37  | 55.96 | -18.59 | Average |
| 2  | @ 0.151 | 49.34   | 0.10 | 49.44  | 65.96 | -16.52 | QP      |
| 3  | 0.283   | 34.39   | 0.41 | 34.80  | 50.72 | -15.92 | Average |
| 4  | 0.283   | 35.72   | 0.41 | 36.13  | 60.72 | -24.59 | QP      |
| 5  | * 0.350 | 36.03   | 0.22 | 36.25  | 48.96 | -12.71 | Average |
| 6  | 0.350   | 35.90   | 0.22 | 36.12  | 58.96 | -22.84 | QP      |
| 7  | 0.630   | 31.85   | 0.10 | 31.95  | 46.00 | -14.05 | Average |
| 8  | 0.630   | 32.27   | 0.10 | 32.37  | 56.00 | -23.63 | QP      |
| 9  | 1.829   | 19.00   | 0.14 | 19.14  | 46.00 | -26.86 | Average |
| 10 | 1.829   | 22.90   | 0.14 | 23.04  | 56.00 | -32.96 | QP      |
| 11 | 14.288  | 7.38    | 0.76 | 8.14   | 50.00 | -41.86 | Average |
| 12 | 14.288  | 14.46   | 0.76 | 15.22  | 60.00 | -44.78 | QP      |

Remark : All readings are Quasi-Peak and Average values.

**Conducted Emission Test Data**

|             |              |            |           |
|-------------|--------------|------------|-----------|
| Test Date   | : 2013-11-08 | Power Line | : Neutral |
| Temperature | : 26°C       | Humidity   | : 33%     |



|    | Freq    | Reading | C.F  | Result | Limit | Margin | Remark  |
|----|---------|---------|------|--------|-------|--------|---------|
|    | MHz     | dBuV    | dBuV | dB     | dBuV  | dB     |         |
| 1  | 0.208   | 35.93   | 0.10 | 36.03  | 53.27 | -17.24 | Average |
| 2  | @ 0.208 | 43.98   | 0.10 | 44.08  | 63.27 | -19.19 | QP      |
| 3  | 0.277   | 29.25   | 0.09 | 29.34  | 50.90 | -21.56 | Average |
| 4  | 0.277   | 32.48   | 0.09 | 32.57  | 60.90 | -28.33 | QP      |
| 5  | 0.630   | 29.57   | 0.09 | 29.66  | 46.00 | -16.34 | Average |
| 6  | 0.630   | 30.39   | 0.09 | 30.48  | 56.00 | -25.52 | QP      |
| 7  | + 0.839 | 31.11   | 0.10 | 31.21  | 46.00 | -14.79 | Average |
| 8  | 0.839   | 31.73   | 0.10 | 31.83  | 56.00 | -24.17 | QP      |
| 9  | 1.324   | 27.29   | 0.11 | 27.40  | 46.00 | -18.60 | Average |
| 10 | 1.324   | 28.22   | 0.11 | 28.33  | 56.00 | -27.67 | QP      |
| 11 | 13.623  | 10.89   | 0.75 | 11.64  | 50.00 | -38.36 | Average |
| 12 | 13.623  | 22.09   | 0.75 | 22.84  | 60.00 | -37.16 | QP      |

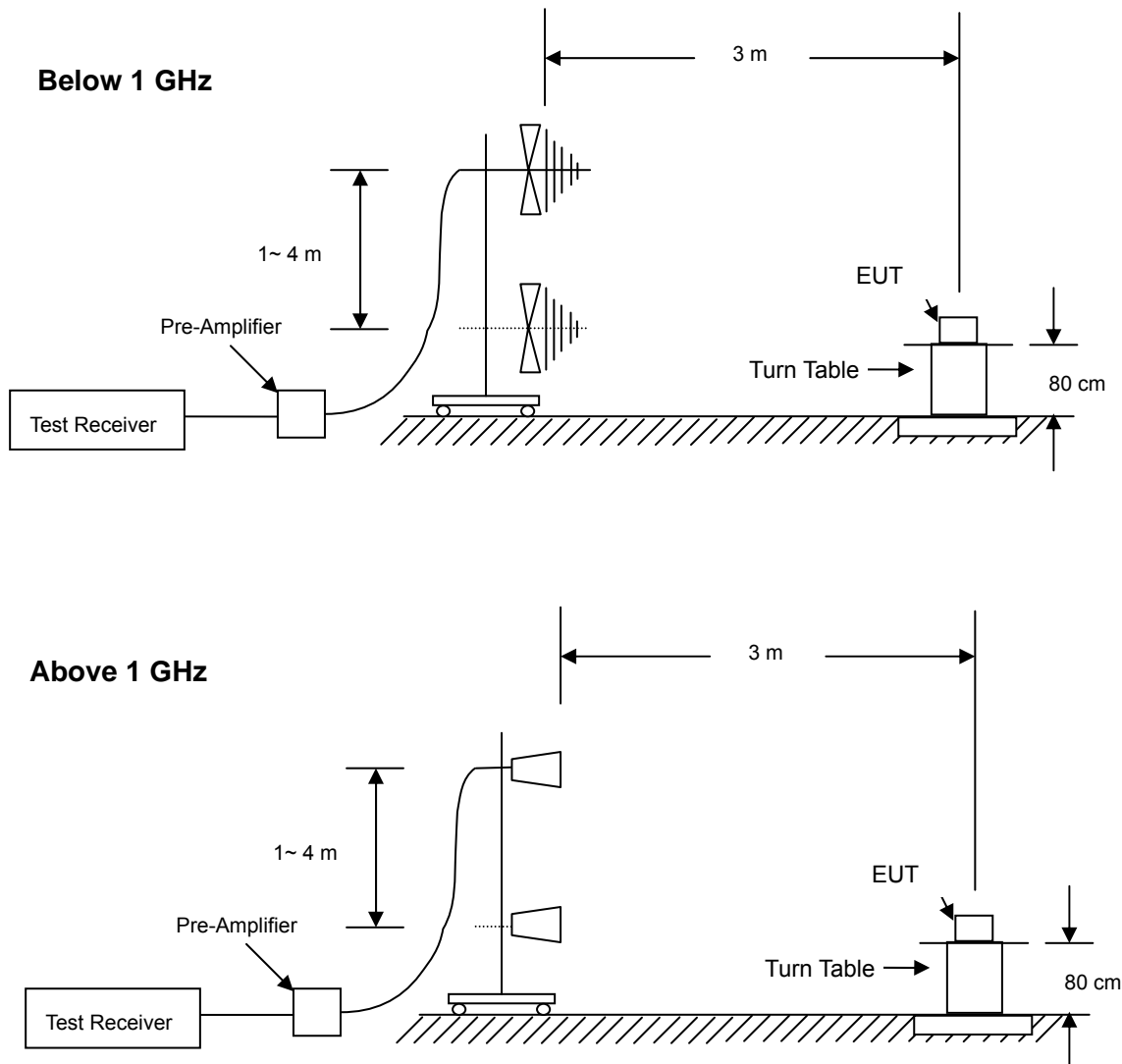
Remark : All readings are Quasi-Peak and Average values.

### 3 Radiated Emission Test

#### 3.1 Test Instruments

Refer to Sec. 1.2 Test Instruments.

#### 3.2 Test Arrangement and Procedure



1. The EUT is placed on a turntable, which is 0.8 m above ground plane.
2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3 m away from the receiving antenna, which is varied from 1 m to 4 m to find out the highest emissions.
4. Maxium procedure was performed on the six highest emissions to ensure EUT compliance.
5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
6. Set the spectrum analyzer in the following setting as:
  - (a) Below 1 GHz: RBW =100 kHz/ VBW = 1 MHz/ Sweep = AUTO.
  - (b) Above 1 GHz: Peak: RBW = VBW = 1MHz/ Sweep = AUTO; Average: RBW = 1MHz/ VBW =





10Hz/ Sweep = AUTO.

7. Repeat above procedures until the measurements for all frequencies are complete.

### 3.3 Limit (§ 15.205 & § 15.209)

#### 3.3.1. Limit of Restricted Band of Operation (§ 15.205)

(a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

| Frequency Band           |                     |               |             |
|--------------------------|---------------------|---------------|-------------|
| MHz                      | MHz                 | MHz           | GHz         |
| 0.090-0.110              | 16.42-16.423        | 399.9-410     | 4.5-5.15    |
| <sup>1</sup> 0.495-0.505 | 16.69475-16.69525   | 608-614       | 5.35-5.46   |
| 2.1735-2.1905            | 16.80425-16.80475   | 960-1240      | 7.25-7.75   |
| 4.125-4.128              | 25.5-25.67          | 1300-1427     | 8.025-8.5   |
| 4.17725-4.17775          | 37.5-38.25          | 1435-1626.5   | 9.0-9.2     |
| 4.20725-4.20775          | 73-74.6             | 1645.5-1646.5 | 9.3-9.5     |
| 6.215-6.218              | 74.8-75.2           | 1660-1710     | 10.6-12.7   |
| 6.26775-6.26825          | 108-121.94          | 1718.8-1722.2 | 13.25-13.4  |
| 6.31175-6.31225          | 123-138             | 2200-2300     | 14.47-14.5  |
| 8.291-8.294              | 149.9-150.05        | 2310-2390     | 15.35-16.2  |
| 8.362-8.366              | 156.52475-156.52525 | 2483.5-2500   | 17.7-21.4   |
| 8.37625-8.38675          | 156.7-156.9         | 2690-2900     | 22.01-23.12 |
| 8.41425-8.41475          | 162.0125-167.17     | 3260-3267     | 23.6-24.0   |
| 12.29-12.293             | 167.72-173.2        | 3332-3339     | 31.2-31.8   |
| 12.51975-12.52025        | 240-285             | 3345.8-3358   | 36.43-36.5  |
| 12.57675-12.57725        | 322-335.4           | 3600-4400     |             |
| 13.36-13.41              |                     |               |             |



### 3.3.2. Limit of Spurious Emission (§ 15.209)

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in § 15.209, whichever is lesser attenuation.

| Frequency<br>(MHz) | Field strength<br>(microvolts/ meter) | Measurement distance<br>(meters) |
|--------------------|---------------------------------------|----------------------------------|
| 0.009-0.490        | 2400/F(kHz)                           | 300                              |
| 0.490-1.705        | 24000/F(kHz)                          | 30                               |
| 1.705-30.0         | 30                                    | 30                               |
| 30-88              | 100**                                 | 3                                |
| 88-216             | 150**                                 | 3                                |
| 216-960            | 200**                                 | 3                                |
| Above 960          | 500                                   | 3                                |

\*\* Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g. §§ 15.231 and 15.241.

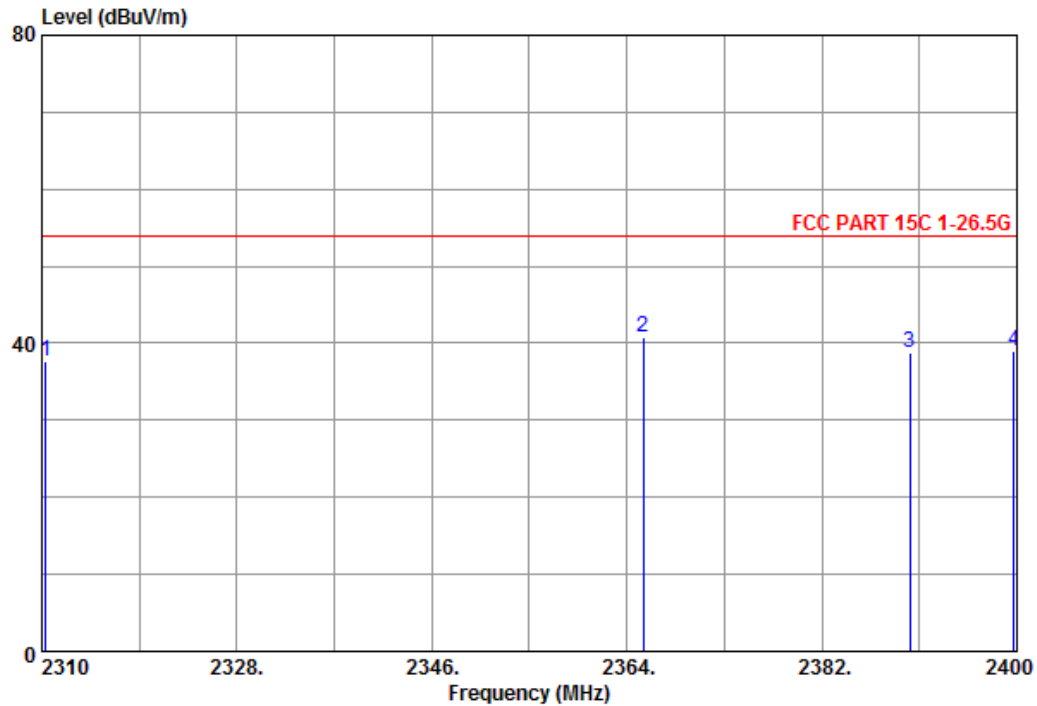
## 3.4 Test Result

### Compliance

The final test data are shown on the following page(s).

## Radiated Emission Test Data (Restricted Band Edge)

|              |               |           |             |
|--------------|---------------|-----------|-------------|
| Temperature  | : 26°C        | Humidity  | : 33%       |
| Test Date    | : 09-Oct-2013 | Tested by | : Kidd Liao |
| Polarization | : Horizontal  | Channel   | : 00        |
| Test Mode    | : Mode 1      |           |             |



|   | Freq     | Reading | C.F   | Result | Limit  | Margin | A/pos | T/pos | Remark |
|---|----------|---------|-------|--------|--------|--------|-------|-------|--------|
|   | MHz      | dBuV    | dB    | dBuV/m | dBuV/m | dB     |       |       |        |
| 1 | 2310.360 | 45.48   | -7.88 | 37.60  | 54.00  | -16.40 | ---   | ---   |        |
| 2 | 2365.530 | 48.41   | -7.74 | 40.67  | 54.00  | -13.33 | ---   | ---   |        |
| 3 | 2390.100 | 46.31   | -7.63 | 38.68  | 54.00  | -15.32 | ---   | ---   |        |
| 4 | 2399.730 | 46.56   | -7.63 | 38.93  | 54.00  | -15.07 | ---   | ---   |        |

C.F = Antenna Factor + Cable Loss - Preamp gain  
 Result = Reading + C.F ; Margin = Result - Limit

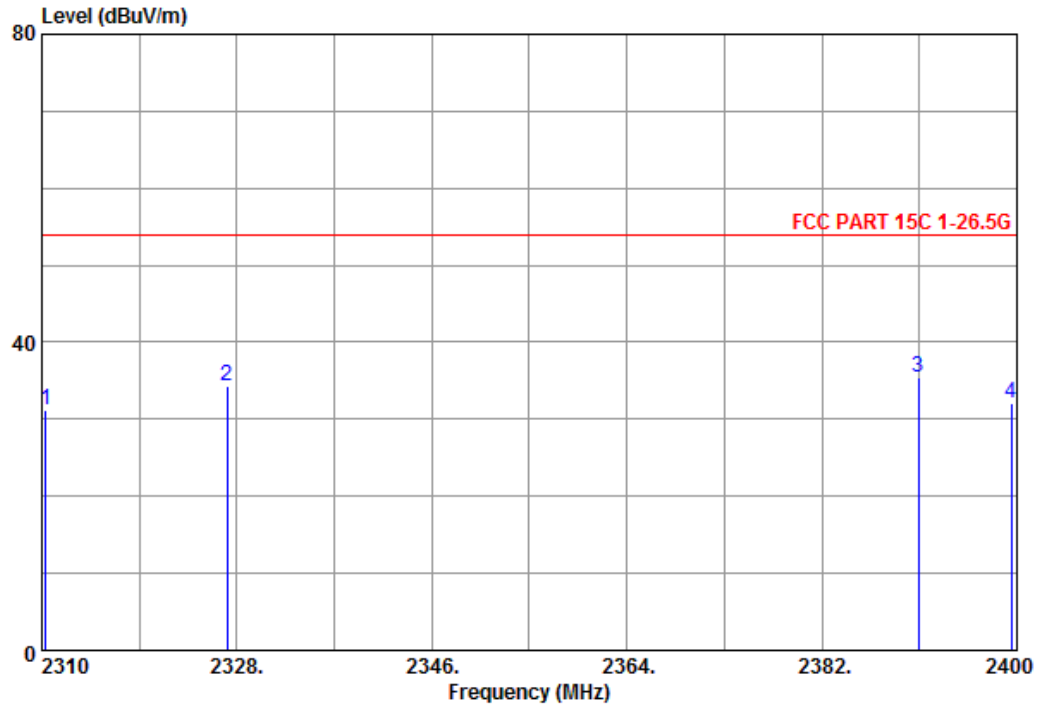
@ : Maximum Data    x : Over Limit

Remark :

- Measuring frequencies from 2310 to 2400 MHz.
- Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.
- Radiated emissions measured in frequency above 1000 MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- All readings are Peak values. None of the peak value reading exceeds the A.V. limit. Hence, A.V. reading was not measured.
- Spectrum setting:
  - Peak Setting 1GHz to 10<sup>th</sup> harmonics of fundamental, RBW = VBW = 1MHz, Sweep = AUTO.
  - Average Setting 1GHz to 10<sup>th</sup> harmonics of fundamental, RBW = 1MHz, VBW = 10Hz, Sweep = AUTO.

## Radiated Emission Test Data (Restricted Band Edge)

|              |               |           |             |
|--------------|---------------|-----------|-------------|
| Temperature  | : 26°C        | Humidity  | : 33%       |
| Test Date    | : 09-Oct-2013 | Tested by | : Kidd Liao |
| Polarization | : Vertical    | Channel   | : 00        |
| Test Mode    | : Mode 1      |           |             |



|   | Freq      | Reading | C.F   | Result | Limit  | Margin | A/pos | T/pos | Remark |
|---|-----------|---------|-------|--------|--------|--------|-------|-------|--------|
|   | MHz       | dBuV    | dB    | dBuV/m | dBuV/m | dB     |       |       |        |
| 1 | 2310.360  | 39.03   | -7.88 | 31.15  | 54.00  | -22.85 | ---   | ---   |        |
| 2 | 2327.100  | 42.11   | -7.84 | 34.27  | 54.00  | -19.73 | ---   | ---   |        |
| 3 | @2390.910 | 43.11   | -7.63 | 35.48  | 54.00  | -18.52 | ---   | ---   |        |
| 4 | 2399.500  | 39.65   | -7.63 | 32.02  | 54.00  | -21.98 | ---   | ---   |        |

C.F = Antenna Factor + Cable Loss - Preamp gain  
 Result = Reading + C.F ; Margin = Result - Limit

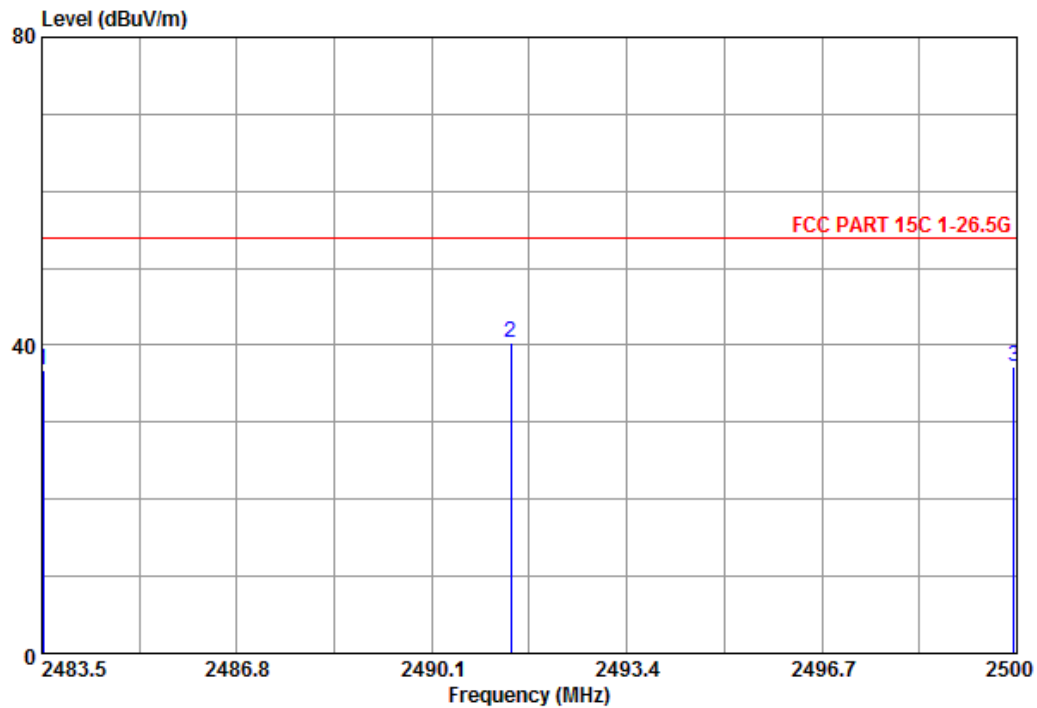
@ : Maximum Data    x : Over Limit

Remark :

- Measuring frequencies from 2310 to 2400 MHz.
- Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.
- Radiated emissions measured in frequency above 1000 MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- All readings are Peak values. None of the peak value reading exceeds the A.V. limit. Hence, A.V. reading was not measured.
- Spectrum setting:
  - Peak Setting 1GHz to 10<sup>th</sup> harmonics of fundamental, RBW = VBW = 1MHz, Sweep = AUTO.
  - Average Setting 1GHz to 10<sup>th</sup> harmonics of fundamental,; RBW = 1MHz, VBW = 10Hz, Sweep = AUTO.

## Radiated Emission Test Data (Restricted Band Edge)

|              |               |           |             |
|--------------|---------------|-----------|-------------|
| Temperature  | : 26°C        | Humidity  | : 33%       |
| Test Date    | : 09-Oct-2013 | Tested by | : Kidd Liao |
| Polarization | : Horizontal  | Channel   | : 78        |
| Test Mode    | : Mode 3      |           |             |



|   | Freq      | Reading | C.F   | Result | Limit  | Margin | A/pos | T/pos | Remark |
|---|-----------|---------|-------|--------|--------|--------|-------|-------|--------|
|   | MHz       | dBuV    | dB    | dBuV/m | dBuV/m | dB     |       |       |        |
| 1 | 2483.517  | 44.17   | -7.39 | 36.78  | 54.00  | -17.22 | ---   | ---   |        |
| 2 | @2491.437 | 47.66   | -7.33 | 40.33  | 54.00  | -13.67 | ---   | ---   |        |
| 3 | 2499.950  | 44.47   | -7.33 | 37.14  | 54.00  | -16.86 | ---   | ---   |        |

C.F = Antenna Factor + Cable Loss - Preamp gain  
Result = Reading + C.F ; Margin = Result - Limit

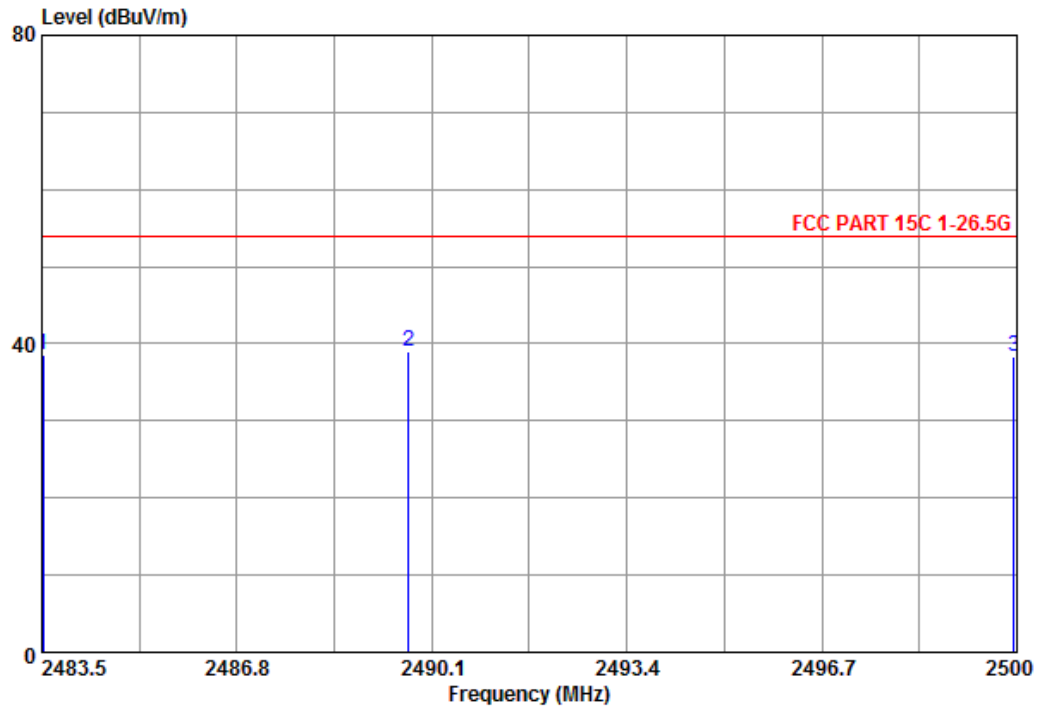
@ : Maximum Data    x : Over Limit

Remark :

- Measuring frequencies from 2483.5 to 2500 MHz.
- Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.
- Radiated emissions measured in frequency above 1000 MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- All readings are Peak values. None of the peak value reading exceeds the A.V. limit. Hence, A.V. reading was not measured.
- Spectrum setting:
  - Peak Setting 1GHz to 10<sup>th</sup> harmonics of fundamental, RBW = VBW = 1MHz, Sweep = AUTO.
  - Average Setting 1GHz to 10<sup>th</sup> harmonics of fundamental, RBW = 1MHz, VBW = 10Hz, Sweep = AUTO.

**Radiated Emission Test Data (Restricted Band Edge)**

|              |               |           |             |
|--------------|---------------|-----------|-------------|
| Temperature  | : 26°C        | Humidity  | : 33%       |
| Test Date    | : 09-Oct-2013 | Tested by | : Kidd Liao |
| Polarization | : Vertical    | Channel   | : 78        |
| Test Mode    | : Mode 3      |           |             |



|   | Freq      | Reading | C.F   | Result | Limit  | Margin | A/pos | T/pos | Remark |
|---|-----------|---------|-------|--------|--------|--------|-------|-------|--------|
|   | MHz       | dBuV    | dB    | dBuV/m | dBuV/m | dB     |       |       |        |
| 1 | 2483.517  | 45.91   | -7.39 | 38.52  | 54.00  | -15.48 | ---   | ---   |        |
| 2 | @2489.704 | 46.38   | -7.33 | 39.05  | 54.00  | -14.95 | ---   | ---   |        |
| 3 | 2499.950  | 45.77   | -7.33 | 38.44  | 54.00  | -15.56 | ---   | ---   |        |

C.F = Antenna Factor + Cable Loss - Preamp gain  
Result = Reading + C.F ; Margin = Result - Limit

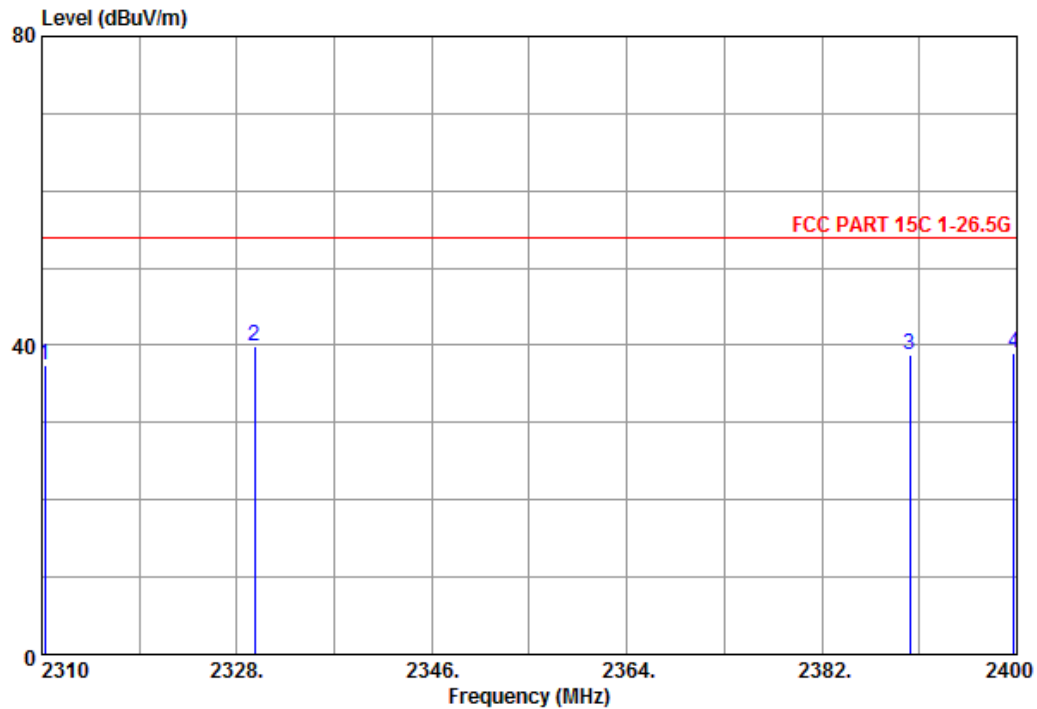
@ : Maximum Data    x : Over Limit

**Remark :**

- Measuring frequencies from 2483.5 to 2500 MHz.
- Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.
- Radiated emissions measured in frequency above 1000 MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- All readings are Peak values. None of the peak value reading exceeds the A.V. limit. Hence, A.V. reading was not measured.
- Spectrum setting:
  - Peak Setting 1GHz to 10<sup>th</sup> harmonics of fundamental, RBW = VBW = 1MHz, Sweep = AUTO.
  - Average Setting 1GHz to 10<sup>th</sup> harmonics of fundamental, RBW = 1MHz, VBW = 10Hz, Sweep = AUTO.

**Radiated Emission Test Data (Restricted Band Edge)**

|              |               |           |             |
|--------------|---------------|-----------|-------------|
| Temperature  | : 26°C        | Humidity  | : 33%       |
| Test Date    | : 09-Oct-2013 | Tested by | : Kidd Liao |
| Polarization | : Horizontal  | Channel   | : 00        |
| Test Mode    | : Mode 4      |           |             |



|   | Freq      | Reading | C.F   | Result | Limit  | Margin | A/pos | T/pos | Remark |
|---|-----------|---------|-------|--------|--------|--------|-------|-------|--------|
|   | MHz       | dBuV    | dB    | dBuV/m | dBuV/m | dB     |       |       |        |
| 1 | 2310.270  | 45.36   | -7.88 | 37.48  | 54.00  | -16.52 | ---   | ---   |        |
| 2 | @2329.620 | 47.73   | -7.84 | 39.89  | 54.00  | -14.11 | ---   | ---   |        |
| 3 | 2390.100  | 46.31   | -7.63 | 38.68  | 54.00  | -15.32 | ---   | ---   |        |
| 4 | 2399.730  | 46.56   | -7.63 | 38.93  | 54.00  | -15.07 | ---   | ---   |        |

C.F = Antenna Factor + Cable Loss - Preamp gain  
Result = Reading + C.F ; Margin = Result - Limit

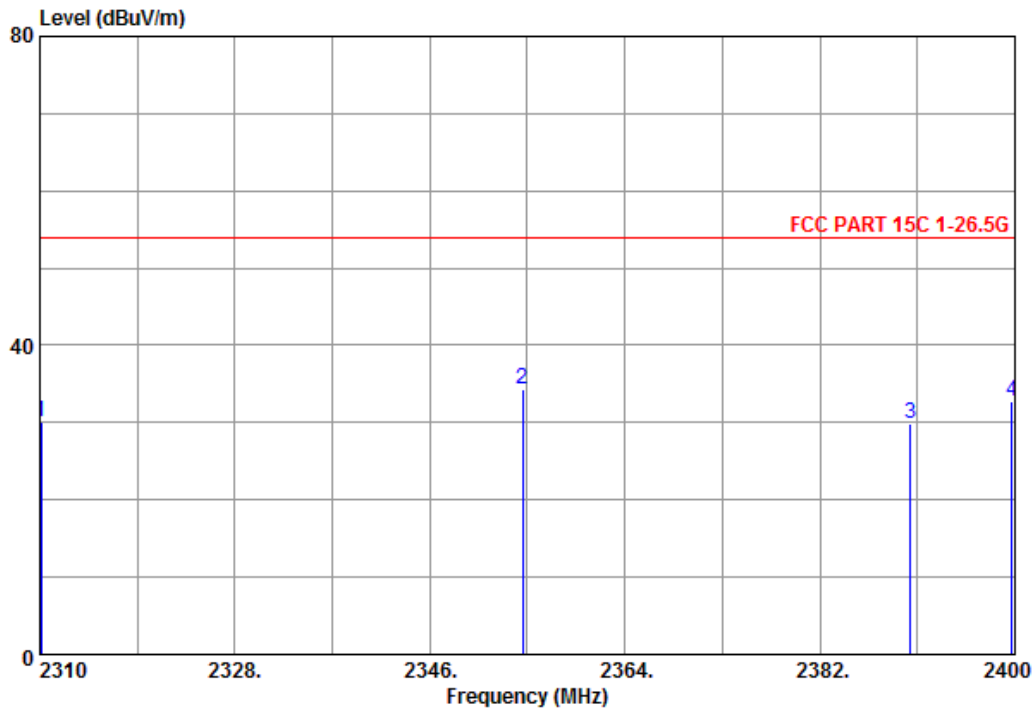
@ : Maximum Data    x : Over Limit

Remark :

- Measuring frequencies from 2310 to 2400 MHz.
- Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.
- Radiated emissions measured in frequency above 1000 MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- All readings are Peak values. None of the peak value reading exceeds the A.V. limit. Hence, A.V. reading was not measured.
- Spectrum setting:
  - Peak Setting 1GHz to 10<sup>th</sup> harmonics of fundamental, RBW = VBW = 1MHz, Sweep = AUTO.
  - Average Setting 1GHz to 10<sup>th</sup> harmonics of fundamental, RBW = 1MHz, VBW = 10Hz, Sweep = AUTO.

## Radiated Emission Test Data (Restricted Band Edge)

|              |               |           |             |
|--------------|---------------|-----------|-------------|
| Temperature  | : 26°C        | Humidity  | : 33%       |
| Test Date    | : 09-Oct-2013 | Tested by | : Kidd Liao |
| Polarization | : Vertical    | Channel   | : 00        |
| Test Mode    | : Mode 4      |           |             |



|   | Freq      | Reading | C.F   | Result | Limit  | Margin | A/pos | T/pos | Remark |
|---|-----------|---------|-------|--------|--------|--------|-------|-------|--------|
|   | MHz       | dBuV    | dB    | dBuV/m | dBuV/m | dB     |       |       |        |
| 1 | 2310.090  | 38.04   | -7.88 | 30.16  | 54.00  | -23.84 | ---   | ---   |        |
| 2 | @2354.550 | 41.95   | -7.74 | 34.21  | 54.00  | -19.79 | ---   | ---   |        |
| 3 | 2390.370  | 37.52   | -7.63 | 29.89  | 54.00  | -24.11 | ---   | ---   |        |
| 4 | 2399.730  | 40.36   | -7.63 | 32.73  | 54.00  | -21.27 | ---   | ---   |        |

C.F = Antenna Factor + Cable Loss - Preamp gain  
 Result = Reading + C.F ; Margin = Result - Limit

@ :Maximum Data x :Over Limit

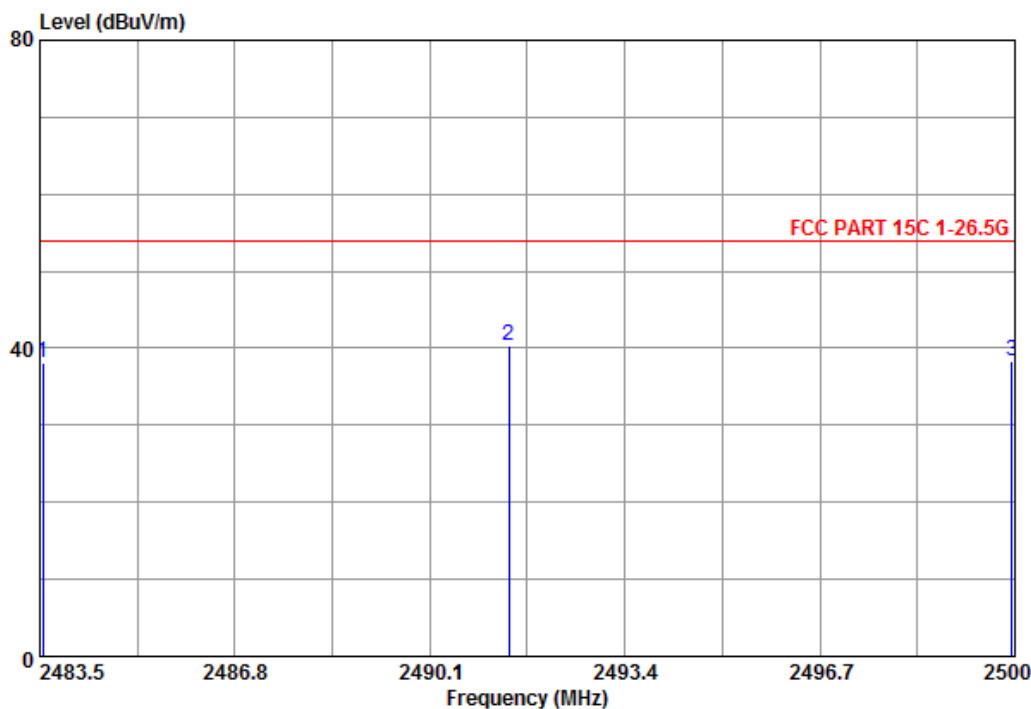
Remark :

- Measuring frequencies from 2310 to 2400 MHz.
- Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.
- Radiated emissions measured in frequency above 1000 MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- All readings are Peak values. None of the peak value reading exceeds the A.V. limit. Hence, A.V. reading was not measured.
- Spectrum setting:
  - Peak Setting 1GHz to 10<sup>th</sup> harmonics of fundamental, RBW = VBW = 1MHz, Sweep = AUTO.
  - Average Setting 1GHz to 10<sup>th</sup> harmonics of fundamental, RBW = 1MHz, VBW = 10Hz, Sweep = AUTO.



## Radiated Emission Test Data (Restricted Band Edge)

|              |               |           |             |
|--------------|---------------|-----------|-------------|
| Temperature  | : 26°C        | Humidity  | : 33%       |
| Test Date    | : 09-Oct-2013 | Tested by | : Kidd Liao |
| Polarization | : Horizontal  | Channel   | : 78        |
| Test Mode    | : Mode 6      |           |             |



|   | Freq      | Reading | C.F   | Result | Limit  | Margin | A/pos | T/pos | Remark |
|---|-----------|---------|-------|--------|--------|--------|-------|-------|--------|
|   | MHz       | dBuV    | dB    | dBuV/m | dBuV/m | dB     |       |       |        |
| 1 | 2483.550  | 45.59   | -7.39 | 38.20  | 54.00  | -15.80 | ---   | ---   |        |
| 2 | @2491.437 | 47.66   | -7.33 | 40.33  | 54.00  | -13.67 | ---   | ---   |        |
| 3 | 2499.950  | 45.75   | -7.33 | 38.42  | 54.00  | -15.58 | ---   | ---   |        |

C.F = Antenna Factor + Cable Loss - Preamp gain  
 Result = Reading + C.F ; Margin = Result - Limit

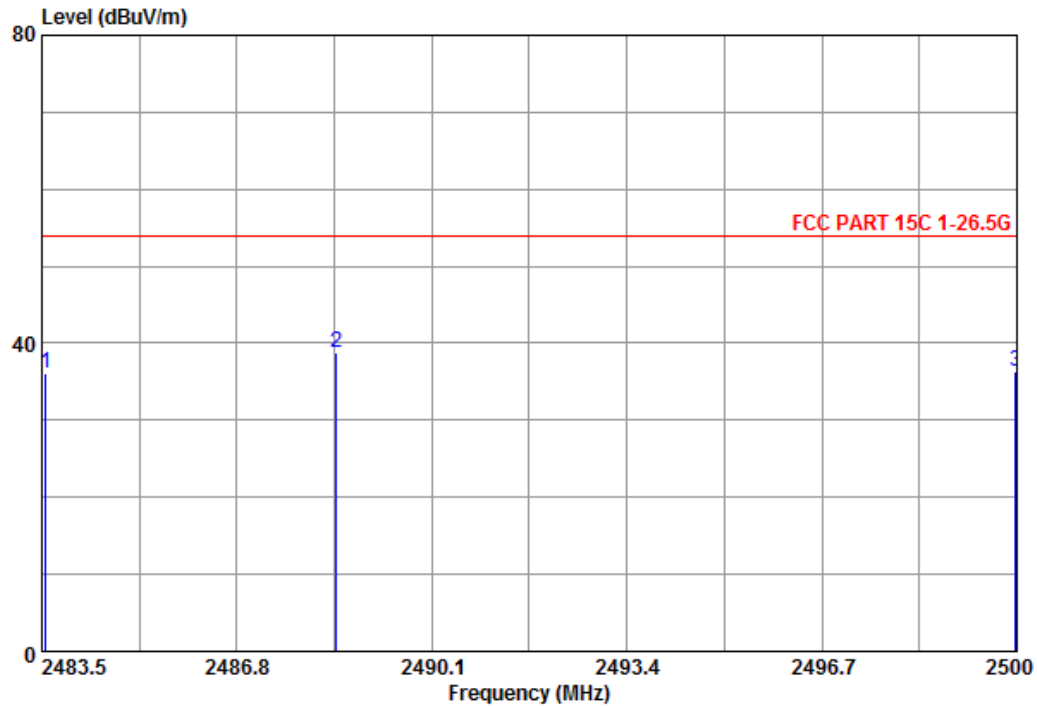
@ : Maximum Data    x : Over Limit

Remark :

- Measuring frequencies from 2483.5 to 2500 MHz.
- Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.
- Radiated emissions measured in frequency above 1000 MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- All readings are Peak values. None of the peak value reading exceeds the A.V. limit. Hence, A.V. reading was not measured.
- Spectrum setting:
  - Peak Setting 1GHz to 10<sup>th</sup> harmonics of fundamental, RBW = VBW = 1MHz, Sweep = AUTO.
  - Average Setting 1GHz to 10<sup>th</sup> harmonics of fundamental, RBW = 1MHz, VBW = 10Hz, Sweep = AUTO.

## Radiated Emission Test Data (Restricted Band Edge)

|              |               |           |             |
|--------------|---------------|-----------|-------------|
| Temperature  | : 26°C        | Humidity  | : 33%       |
| Test Date    | : 09-Oct-2013 | Tested by | : Kidd Liao |
| Polarization | : Vertical    | Channel   | : 78        |
| Test Mode    | : Mode 6      |           |             |



|   | Freq      | Reading | C.F   | Result | Limit  | Margin | A/pos | T/pos | Remark |
|---|-----------|---------|-------|--------|--------|--------|-------|-------|--------|
|   | MHz       | dBuV    | dB    | dBuV/m | dBuV/m | dB     |       |       |        |
| 1 | 2483.566  | 43.59   | -7.39 | 36.20  | 54.00  | -17.80 | ---   | ---   |        |
| 2 | @2488.483 | 46.00   | -7.33 | 38.67  | 54.00  | -15.33 | ---   | ---   |        |
| 3 | 2499.983  | 43.65   | -7.33 | 36.32  | 54.00  | -17.68 | ---   | ---   |        |

C.F = Antenna Factor + Cable Loss - Preamp gain  
 Result = Reading + C.F ; Margin = Result - Limit

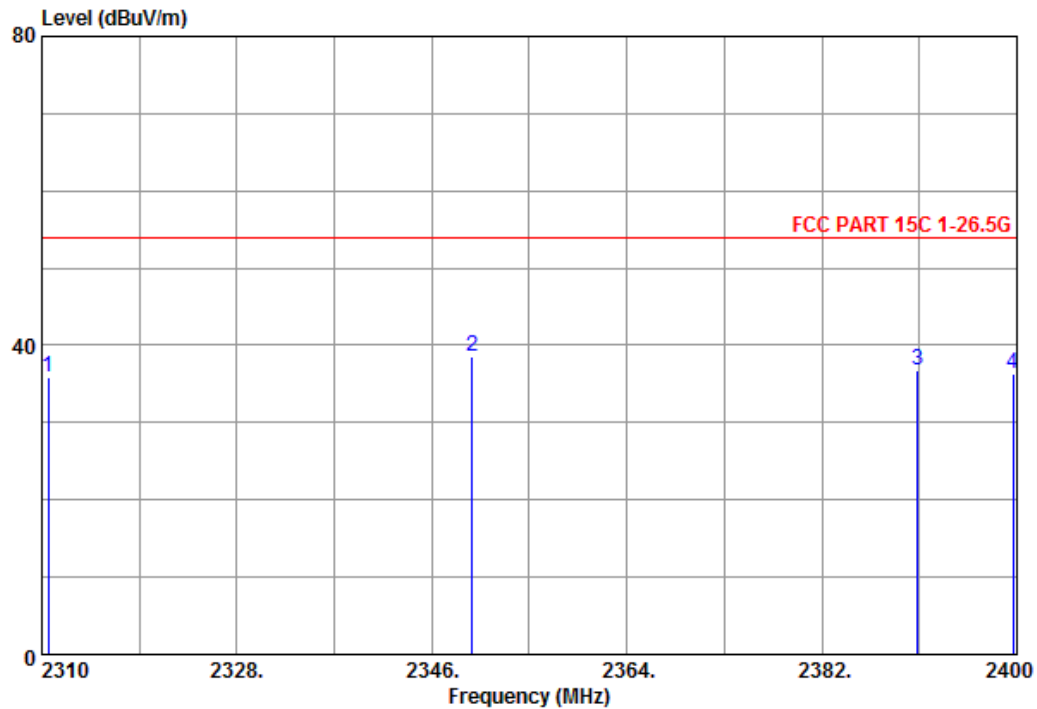
@ : Maximum Data x : Over Limit

Remark :

- Measuring frequencies from 2483.5 to 2500 MHz.
- Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.
- Radiated emissions measured in frequency above 1000 MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- All readings are Peak values. None of the peak value reading exceeds the A.V. limit. Hence, A.V. reading was not measured.
- Spectrum setting:
  - Peak Setting 1GHz to 10<sup>th</sup> harmonics of fundamental, RBW = VBW = 1MHz, Sweep = AUTO.
  - Average Setting 1GHz to 10<sup>th</sup> harmonics of fundamental, RBW = 1MHz, VBW = 10Hz, Sweep = AUTO.

## Radiated Emission Test Data (Restricted Band Edge)

|              |               |           |             |
|--------------|---------------|-----------|-------------|
| Temperature  | : 26°C        | Humidity  | : 33%       |
| Test Date    | : 09-Oct-2013 | Tested by | : Kidd Liao |
| Polarization | : Horizontal  | Channel   | : 00        |
| Test Mode    | : Mode 7      |           |             |



|   | Freq      | Reading | C.F   | Result | Limit  | Margin | A/pos | T/pos | Remark |
|---|-----------|---------|-------|--------|--------|--------|-------|-------|--------|
|   | MHz       | dBuV    | dB    | dBuV/m | dBuV/m | dB     |       |       |        |
| 1 | 2310.630  | 43.84   | -7.88 | 35.96  | 54.00  | -18.04 | ---   | ---   |        |
| 2 | @2349.690 | 46.28   | -7.79 | 38.49  | 54.00  | -15.51 | ---   | ---   |        |
| 3 | 2390.820  | 44.50   | -7.63 | 36.87  | 54.00  | -17.13 | ---   | ---   |        |
| 4 | 2399.640  | 43.96   | -7.63 | 36.33  | 54.00  | -17.67 | ---   | ---   |        |

C.F = Antenna Factor + Cable Loss - Preamp gain  
 Result = Reading + C.F ; Margin = Result - Limit

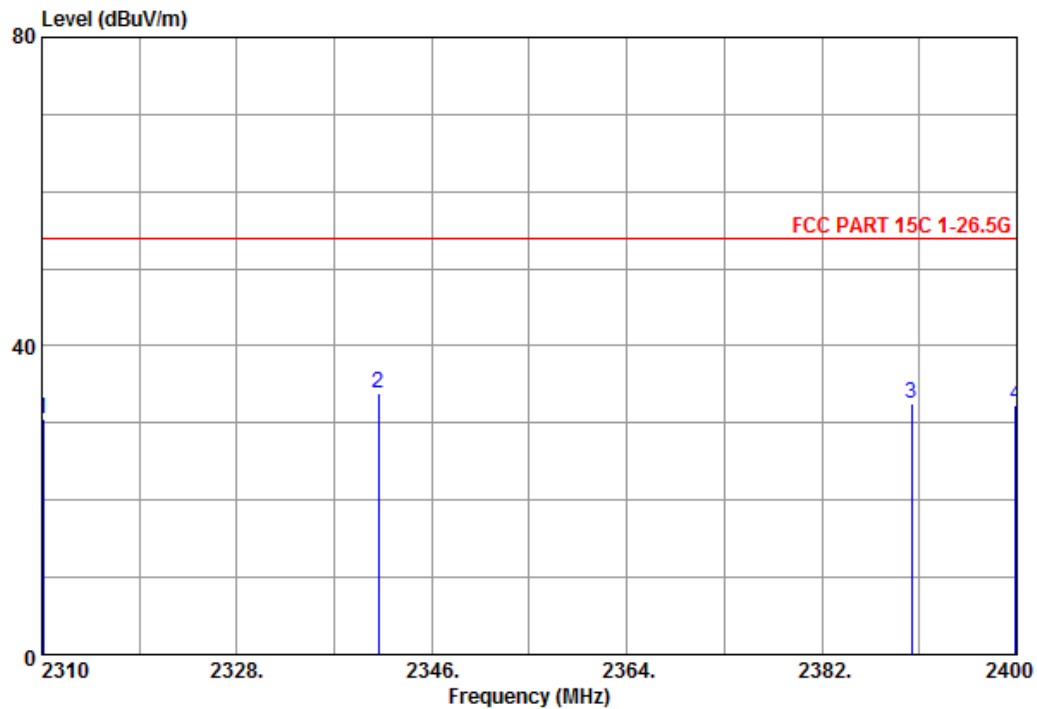
@ :Maximum Data x :Over Limit

Remark :

- Measuring frequencies from 2310 to 2400 MHz.
- Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.
- Radiated emissions measured in frequency above 1000 MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- All readings are Peak values. None of the peak value reading exceeds the A.V. limit. Hence, A.V. reading was not measured.
- Spectrum setting:
  - Peak Setting 1GHz to 10<sup>th</sup> harmonics of fundamental, RBW = VBW = 1MHz, Sweep = AUTO.
  - Average Setting 1GHz to 10<sup>th</sup> harmonics of fundamental,; RBW = 1MHz, VBW = 10Hz, Sweep = AUTO.

## Radiated Emission Test Data (Restricted Band Edge)

|              |               |           |             |
|--------------|---------------|-----------|-------------|
| Temperature  | : 26°C        | Humidity  | : 33%       |
| Test Date    | : 09-Oct-2013 | Tested by | : Kidd Liao |
| Polarization | : Vertical    | Channel   | : 00        |
| Test Mode    | : Mode 7      |           |             |



|   | Freq      | Reading | C.F   | Result | Limit  | Margin | A/pos | T/pos | Remark |
|---|-----------|---------|-------|--------|--------|--------|-------|-------|--------|
|   | MHz       | dBuV    | dB    | dBuV/m | dBuV/m | dB     |       |       |        |
| 1 | 2310.090  | 38.43   | -7.88 | 30.55  | 54.00  | -23.45 | ---   | ---   |        |
| 2 | @2341.050 | 41.64   | -7.79 | 33.85  | 54.00  | -20.15 | ---   | ---   |        |
| 3 | 2390.280  | 40.18   | -7.63 | 32.55  | 54.00  | -21.45 | ---   | ---   |        |
| 4 | 2399.910  | 40.01   | -7.63 | 32.38  | 54.00  | -21.62 | ---   | ---   |        |

C.F = Antenna Factor + Cable Loss - Preamp gain  
 Result = Reading + C.F ; Margin = Result - Limit

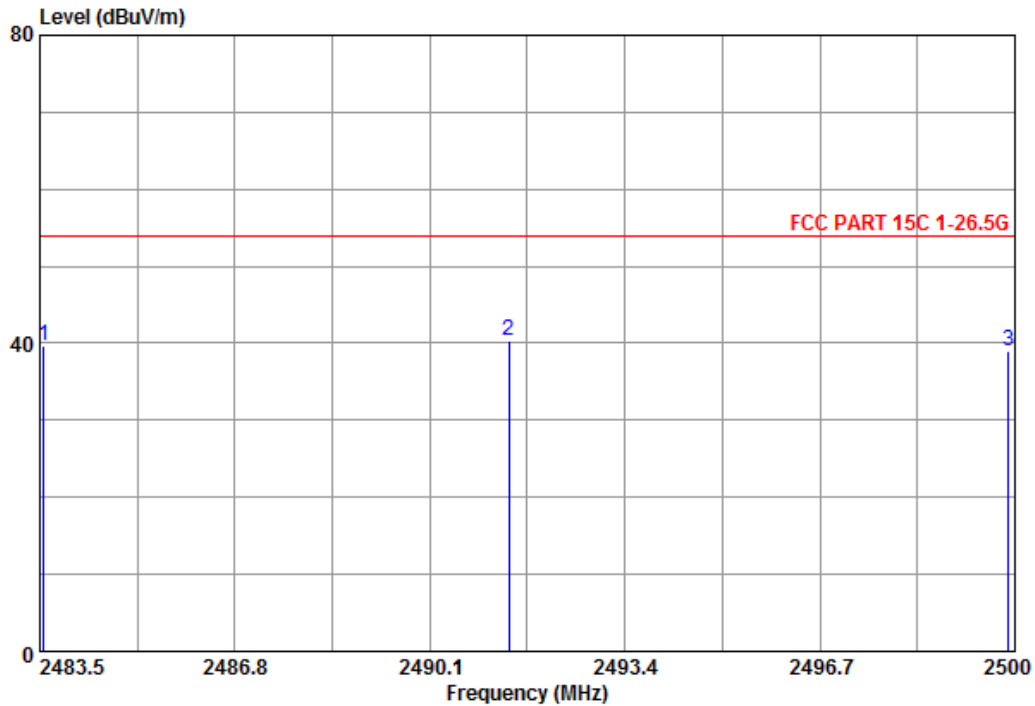
@ : Maximum Data    x : Over Limit

Remark :

- Measuring frequencies from 2310 to 2400 MHz.
- Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.
- Radiated emissions measured in frequency above 1000 MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- All readings are Peak values. None of the peak value reading exceeds the A.V. limit. Hence, A.V. reading was not measured.
- Spectrum setting:
  - Peak Setting 1GHz to 10<sup>th</sup> harmonics of fundamental, RBW = VBW = 1MHz, Sweep = AUTO.
  - Average Setting 1GHz to 10<sup>th</sup> harmonics of fundamental, RBW = 1MHz, VBW = 10Hz, Sweep = AUTO.

## Radiated Emission Test Data (Restricted Band Edge)

|              |               |           |             |
|--------------|---------------|-----------|-------------|
| Temperature  | : 26°C        | Humidity  | : 33%       |
| Test Date    | : 09-Oct-2013 | Tested by | : Kidd Liao |
| Polarization | : Horizontal  | Channel   | : 78        |
| Test Mode    | : Mode 9      |           |             |



|   | Freq      | Reading | C.F   | Result | Limit  | Margin | A/pos | T/pos | Remark |
|---|-----------|---------|-------|--------|--------|--------|-------|-------|--------|
|   | MHz       | dBuV    | dB    | dBuV/m | dBuV/m | dB     |       |       |        |
| 1 | 2483.566  | 47.02   | -7.39 | 39.63  | 54.00  | -14.37 | ---   | ---   |        |
| 2 | @2491.437 | 47.66   | -7.33 | 40.33  | 54.00  | -13.67 | ---   | ---   |        |
| 3 | 2499.885  | 46.23   | -7.33 | 38.90  | 54.00  | -15.10 | ---   | ---   |        |

C.F = Antenna Factor + Cable Loss - Preamp gain  
Result = Reading + C.F ; Margin = Result - Limit

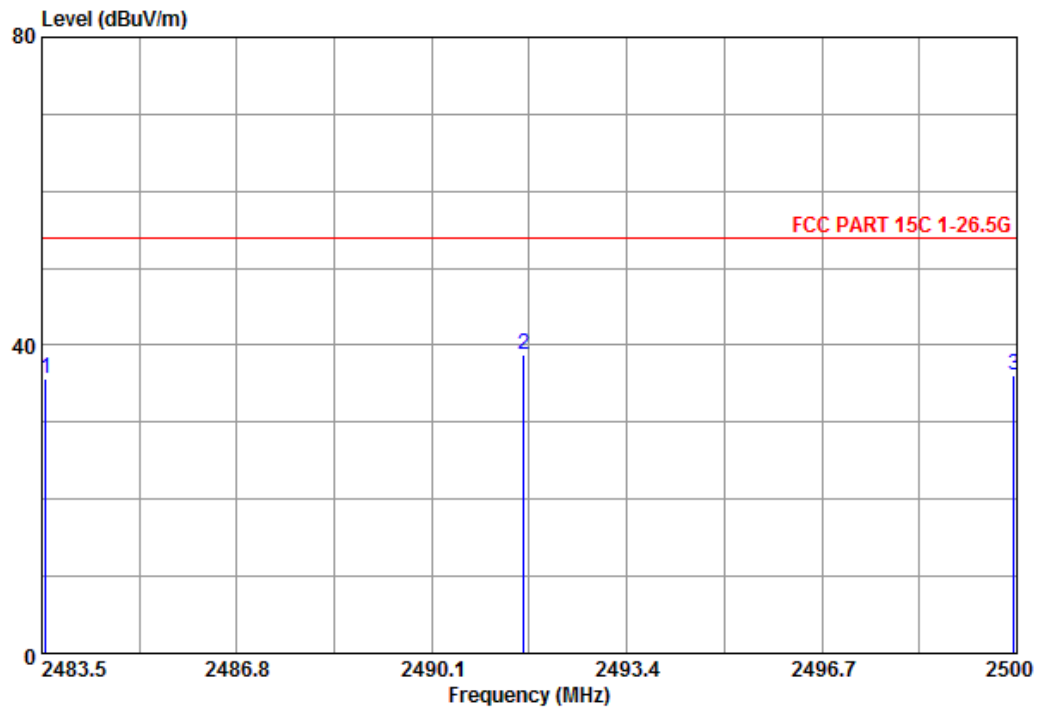
@ : Maximum Data    x : Over Limit

Remark :

- Measuring frequencies from 2483.5 to 2500 MHz.
- Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.
- Radiated emissions measured in frequency above 1000 MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- All readings are Peak values. None of the peak value reading exceeds the A.V. limit. Hence, A.V. reading was not measured.
- Spectrum setting:
  - Peak Setting 1GHz to 10<sup>th</sup> harmonics of fundamental, RBW = VBW = 1MHz, Sweep = AUTO.
  - Average Setting 1GHz to 10<sup>th</sup> harmonics of fundamental, RBW = 1MHz, VBW = 10Hz, Sweep = AUTO.

## Radiated Emission Test Data (Restricted Band Edge)

|              |               |           |             |
|--------------|---------------|-----------|-------------|
| Temperature  | : 26°C        | Humidity  | : 33%       |
| Test Date    | : 09-Oct-2013 | Tested by | : Kidd Liao |
| Polarization | : Vertical    | Channel   | : 78        |
| Test Mode    | : Mode 9      |           |             |



|   | Freq      | Reading | C.F   | Result | Limit  | Margin | A/pos | T/pos | Remark |
|---|-----------|---------|-------|--------|--------|--------|-------|-------|--------|
|   | MHz       | dBuV    | dB    | dBuV/m | dBuV/m | dB     |       |       |        |
| 1 | 2483.566  | 43.11   | -7.39 | 35.72  | 54.00  | -18.28 | ---   | ---   |        |
| 2 | @2491.651 | 46.12   | -7.33 | 38.79  | 54.00  | -15.21 | ---   | ---   |        |
| 3 | 2499.950  | 43.47   | -7.33 | 36.14  | 54.00  | -17.86 | ---   | ---   |        |

C.F = Antenna Factor + Cable Loss - Preamp gain  
 Result = Reading + C.F ; Margin = Result - Limit

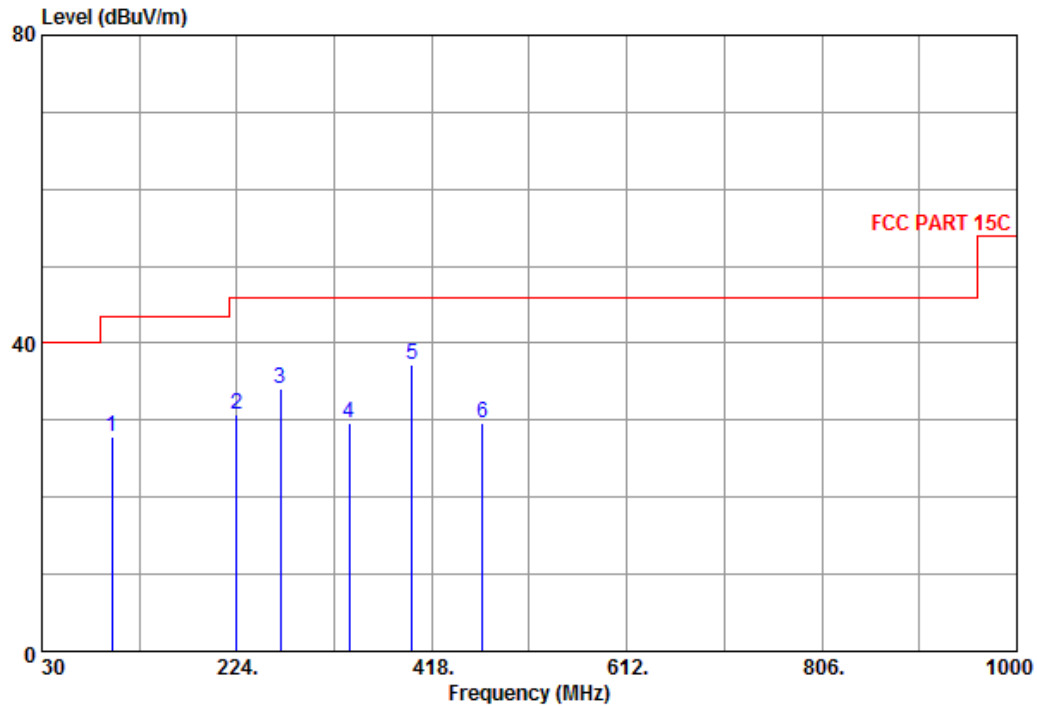
@ : Maximum Data    x : Over Limit

Remark :

- Measuring frequencies from 2483.5 to 2500 MHz.
- Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.
- Radiated emissions measured in frequency above 1000 MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- All readings are Peak values. None of the peak value reading exceeds the A.V. limit. Hence, A.V. reading was not measured.
- Spectrum setting:
  - Peak Setting 1GHz to 10<sup>th</sup> harmonics of fundamental, RBW = VBW = 1MHz, Sweep = AUTO.
  - Average Setting 1GHz to 10<sup>th</sup> harmonics of fundamental, RBW = 1MHz, VBW = 10Hz, Sweep = AUTO.

### Radiated Emission Test Data (Below 1 GHz)

|              |               |           |             |
|--------------|---------------|-----------|-------------|
| Temperature  | : 26°C        | Humidity  | : 33%       |
| Test Date    | : 09-Oct-2013 | Tested by | : Kidd Liao |
| Polarization | : Horizontal  | Channel   | : 00        |
| Test Mode    | : Mode 1      |           |             |



|   | Freq      | Reading | C.F    | Result | Limit  | Margin | A/pos | T/pos | Remark |
|---|-----------|---------|--------|--------|--------|--------|-------|-------|--------|
|   | MHz       | dBuV    | dB     | dBuV/m | dBuV/m | dB     |       |       |        |
| 1 | 99.840    | 50.17   | -22.28 | 27.89  | 43.50  | -15.61 | ---   | ---   |        |
| 2 | 224.000   | 48.86   | -18.17 | 30.69  | 46.00  | -15.31 | ---   | ---   |        |
| 3 | 267.650   | 52.96   | -18.92 | 34.04  | 46.00  | -11.96 | ---   | ---   |        |
| 4 | 335.550   | 44.83   | -15.25 | 29.58  | 46.00  | -16.42 | ---   | ---   |        |
| 5 | @ 398.600 | 51.09   | -13.85 | 37.24  | 46.00  | -8.76  | ---   | ---   |        |
| 6 | 468.440   | 42.43   | -12.75 | 29.68  | 46.00  | -16.32 | ---   | ---   |        |

C.F = Antenna Factor + Cable Loss - Preamp gain  
Result = Reading + C.F ; Margin = Result - Limit

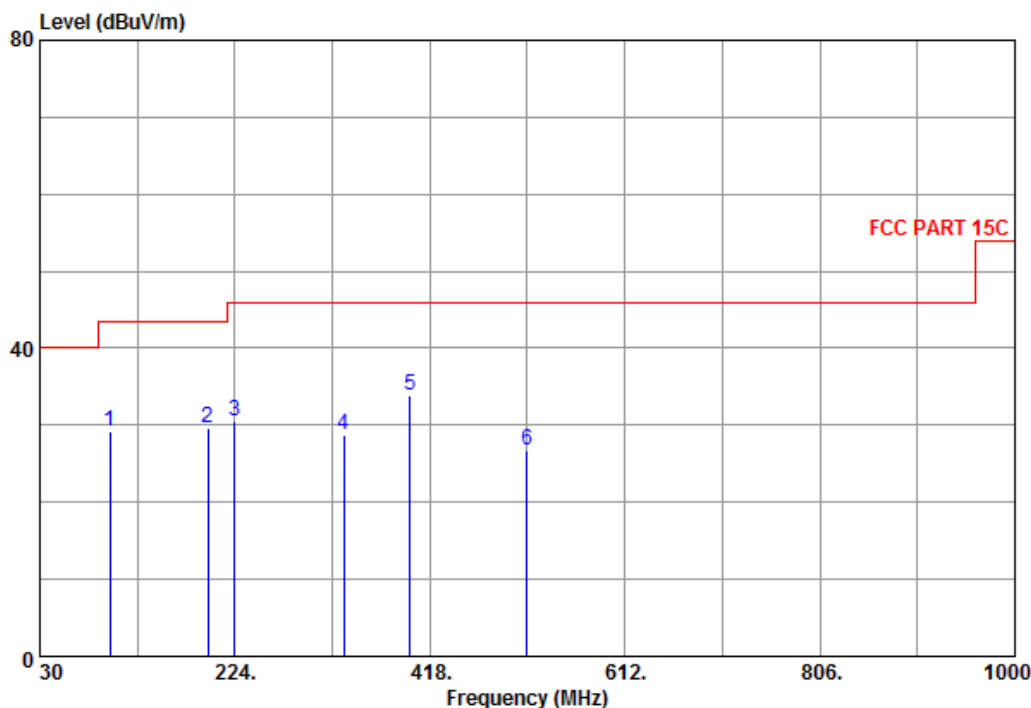
@ : Maximum Data x : Over Limit

Remark :

1. Measuring frequencies from 30 MHz to 1 GHz.
2. Radiated emissions measured in frequency range from 30 MHz to 1000 MHz were made with an instrument using Q.P. detector mode.
3. Data of measurement within this frequency range shown "----" in the table above means the reading of emissions are attenuated more than 20 dB below the permissible limits or the field strength is too small to be measured.
4. The IF bandwidth of SPA between 30 MHz to 1 GHz was 100 kHz.

## Radiated Emission Test Data (Below 1 GHz)

|              |               |           |             |
|--------------|---------------|-----------|-------------|
| Temperature  | : 26°C        | Humidity  | : 33%       |
| Test Date    | : 09-Oct-2013 | Tested by | : Kidd Liao |
| Polarization | : Vertical    | Channel   | : 00        |
| Test Mode    | : Mode 1      |           |             |



|   | Freq    | Reading | C.F    | Result | Limit  | Margin | A/pos | T/pos | Remark |
|---|---------|---------|--------|--------|--------|--------|-------|-------|--------|
|   | MHz     | dBuV    | dB     | dBuV/m | dBuV/m | dB     |       |       |        |
| 1 | 99.840  | 51.57   | -22.28 | 29.29  | 43.50  | -14.21 | ---   | ---   |        |
| 2 | 196.840 | 47.00   | -17.28 | 29.72  | 43.50  | -13.78 | ---   | ---   |        |
| 3 | 224.000 | 48.65   | -18.17 | 30.48  | 46.00  | -15.52 | ---   | ---   |        |
| 4 | 332.640 | 44.16   | -15.44 | 28.72  | 46.00  | -17.28 | ---   | ---   |        |
| 5 | 398.600 | 47.72   | -13.85 | 33.87  | 46.00  | -12.13 | ---   | ---   |        |
| 6 | 515.000 | 37.55   | -10.87 | 26.68  | 46.00  | -19.32 | ---   | ---   |        |

C.F = Antenna Factor + Cable Loss - Preamp gain  
 Result = Reading + C.F ; Margin = Result - Limit

@ :Maximum Data    x :Over Limit

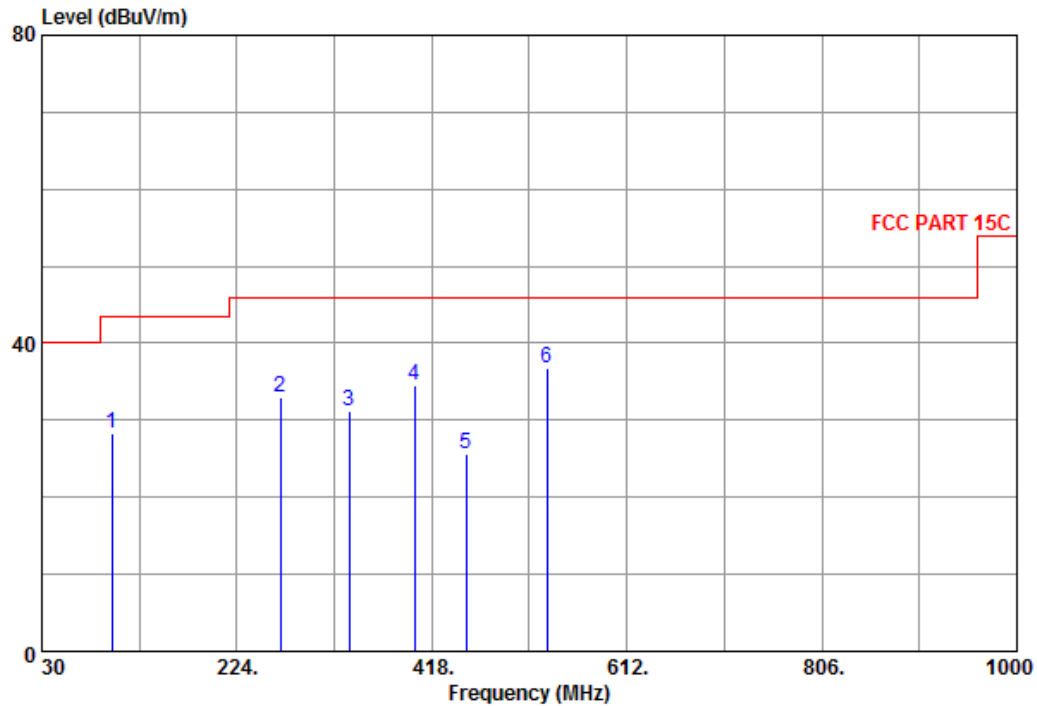
Remark :

1. Measuring frequencies from 30 MHz to 1 GHz.
2. Radiated emissions measured in frequency range from 30 MHz to 1000 MHz were made with an instrument using Q.P. detector mode.
3. Data of measurement within this frequency range shown "----" in the table above means the reading of emissions are attenuated more than 20 dB below the permissible limits or the field strength is too small to be measured.
4. The IF bandwidth of SPA between 30 MHz to 1 GHz was 100 kHz.



### Radiated Emission Test Data (Below 1 GHz)

|              |               |           |             |
|--------------|---------------|-----------|-------------|
| Temperature  | : 26°C        | Humidity  | : 33%       |
| Test Date    | : 09-Oct-2013 | Tested by | : Kidd Liao |
| Polarization | : Horizontal  | Channel   | : 39        |
| Test Mode    | : Mode 2      |           |             |



|     | Freq    | Reading | C.F    | Result | Limit  | Margin | A/pos | T/pos | Remark |
|-----|---------|---------|--------|--------|--------|--------|-------|-------|--------|
|     | MHz     | dBuV    | dB     | dBuV/m | dBuV/m | dB     |       |       |        |
| 1   | 99.840  | 50.65   | -22.28 | 28.37  | 43.50  | -15.13 | ---   | ---   |        |
| 2   | 267.650 | 51.80   | -18.92 | 32.88  | 46.00  | -13.12 | ---   | ---   |        |
| 3   | 335.550 | 46.56   | -15.25 | 31.31  | 46.00  | -14.69 | ---   | ---   |        |
| 4   | 400.540 | 48.45   | -13.97 | 34.48  | 46.00  | -11.52 | ---   | ---   |        |
| 5   | 451.950 | 38.37   | -12.84 | 25.53  | 46.00  | -20.47 | ---   | ---   |        |
| 6 @ | 532.460 | 47.33   | -10.60 | 36.73  | 46.00  | -9.27  | ---   | ---   |        |

C.F = Antenna Factor + Cable Loss - Preamp gain  
Result = Reading + C.F ; Margin = Result - Limit

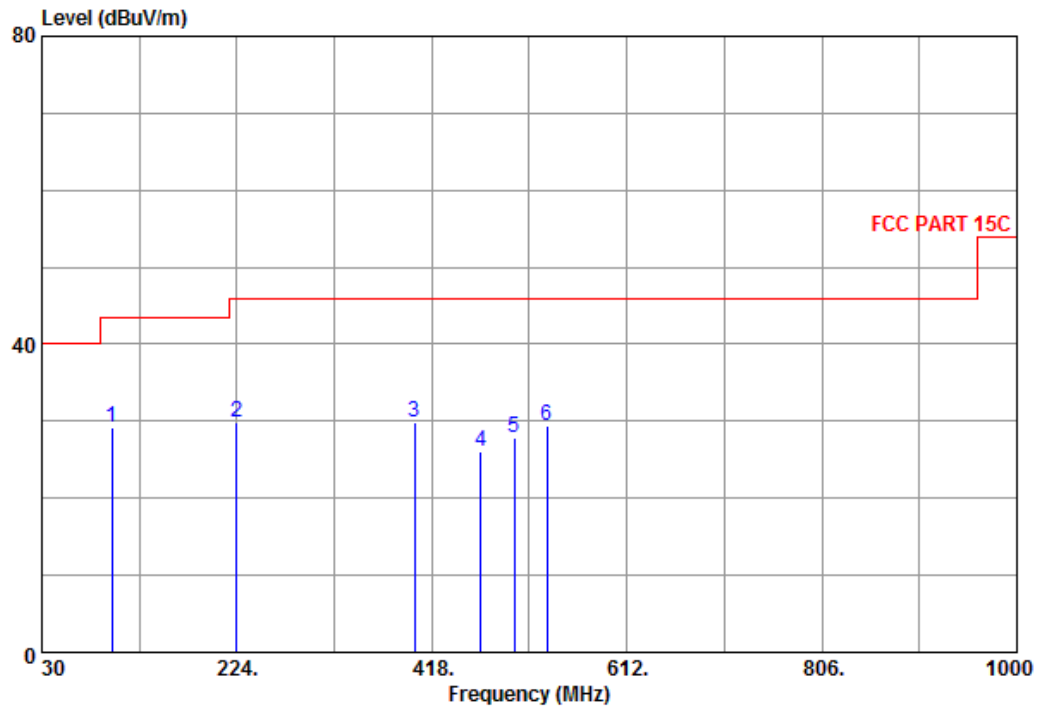
@ : Maximum Data x : Over Limit

#### Remark :

1. Measuring frequencies from 30 MHz to 1 GHz.
2. Radiated emissions measured in frequency range from 30 MHz to 1000 MHz were made with an instrument using Q.P. detector mode.
3. Data of measurement within this frequency range shown "----" in the table above means the reading of emissions are attenuated more than 20 dB below the permissible limits or the field strength is too small to be measured.
4. The IF bandwidth of SPA between 30 MHz to 1 GHz was 100 kHz.

### Radiated Emission Test Data (Below 1 GHz)

|              |               |           |             |
|--------------|---------------|-----------|-------------|
| Temperature  | : 26°C        | Humidity  | : 33%       |
| Test Date    | : 09-Oct-2013 | Tested by | : Kidd Liao |
| Polarization | : Vertical    | Channel   | : 39        |
| Test Mode    | : Mode 2      |           |             |



|     | Freq    | Reading | C.F    | Result | Limit  | Margin | A/pos | T/pos | Remark |
|-----|---------|---------|--------|--------|--------|--------|-------|-------|--------|
|     | MHz     | dBuV    | dB     | dBuV/m | dBuV/m | dB     |       |       |        |
| 1 @ | 99.840  | 51.43   | -22.28 | 29.15  | 43.50  | -14.35 | ---   | ---   |        |
| 2   | 224.000 | 48.08   | -18.17 | 29.91  | 46.00  | -16.09 | ---   | ---   |        |
| 3   | 400.540 | 43.79   | -13.97 | 29.82  | 46.00  | -16.18 | ---   | ---   |        |
| 4   | 466.500 | 38.85   | -12.76 | 26.09  | 46.00  | -19.91 | ---   | ---   |        |
| 5   | 500.450 | 39.11   | -11.25 | 27.86  | 46.00  | -18.14 | ---   | ---   |        |
| 6   | 532.460 | 40.04   | -10.60 | 29.44  | 46.00  | -16.56 | ---   | ---   |        |

C.F = Antenna Factor + Cable Loss - Preamp gain  
Result = Reading + C.F ; Margin = Result - Limit

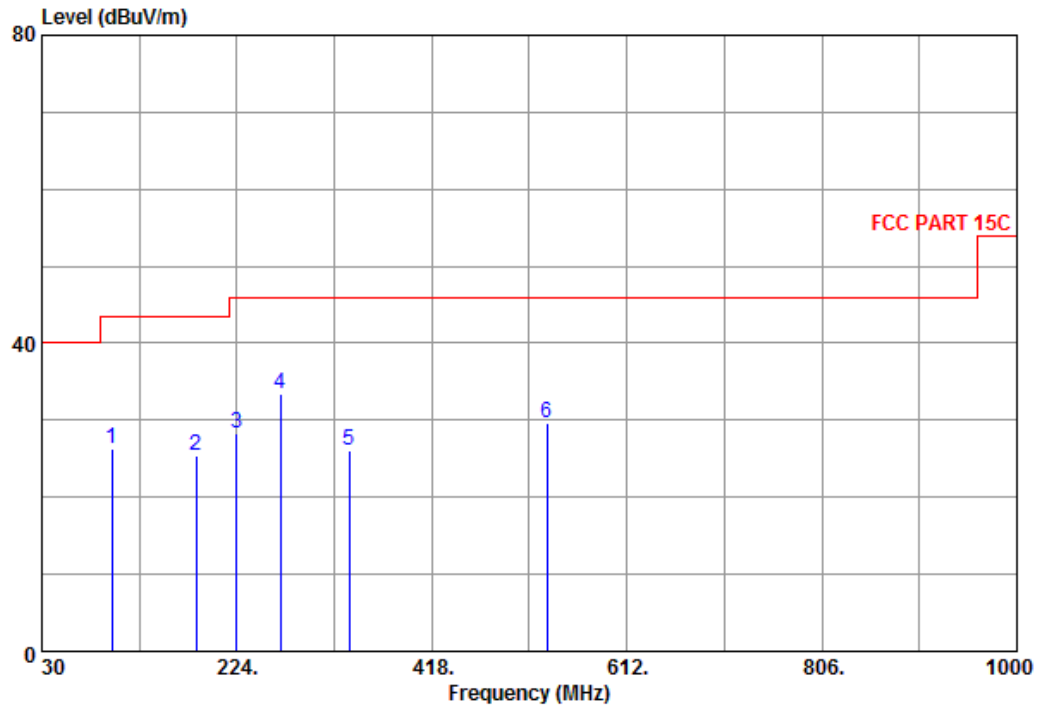
@ :Maximum Data x :Over Limit

Remark :

1. Measuring frequencies from 30 MHz to 1 GHz.
2. Radiated emissions measured in frequency range from 30 MHz to 1000 MHz were made with an instrument using Q.P. detector mode.
3. Data of measurement within this frequency range shown "----" in the table above means the reading of emissions are attenuated more than 20 dB below the permissible limits or the field strength is too small to be measured.
4. The IF bandwidth of SPA between 30 MHz to 1 GHz was 100 kHz.

## Radiated Emission Test Data (Below 1 GHz)

|              |               |           |             |
|--------------|---------------|-----------|-------------|
| Temperature  | : 26°C        | Humidity  | : 33%       |
| Test Date    | : 09-Oct-2013 | Tested by | : Kidd Liao |
| Polarization | : Horizontal  | Channel   | : 78        |
| Test Mode    | : Mode 3      |           |             |



|   | Freq      | Reading | C.F    | Result | Limit  | Margin | A/pos | T/pos | Remark |
|---|-----------|---------|--------|--------|--------|--------|-------|-------|--------|
|   | MHz       | dBuV    | dB     | dBuV/m | dBuV/m | dB     |       |       |        |
| 1 | 99.840    | 48.67   | -22.28 | 26.39  | 43.50  | -17.11 | ---   | ---   |        |
| 2 | 183.260   | 42.89   | -17.38 | 25.51  | 43.50  | -17.99 | ---   | ---   |        |
| 3 | 224.000   | 46.39   | -18.17 | 28.22  | 46.00  | -17.78 | ---   | ---   |        |
| 4 | @ 267.650 | 52.29   | -18.92 | 33.37  | 46.00  | -12.63 | ---   | ---   |        |
| 5 | 335.550   | 41.23   | -15.25 | 25.98  | 46.00  | -20.02 | ---   | ---   |        |
| 6 | 532.460   | 40.22   | -10.60 | 29.62  | 46.00  | -16.38 | ---   | ---   |        |

C.F = Antenna Factor + Cable Loss - Preamp gain  
 Result = Reading + C.F ; Margin = Result - Limit

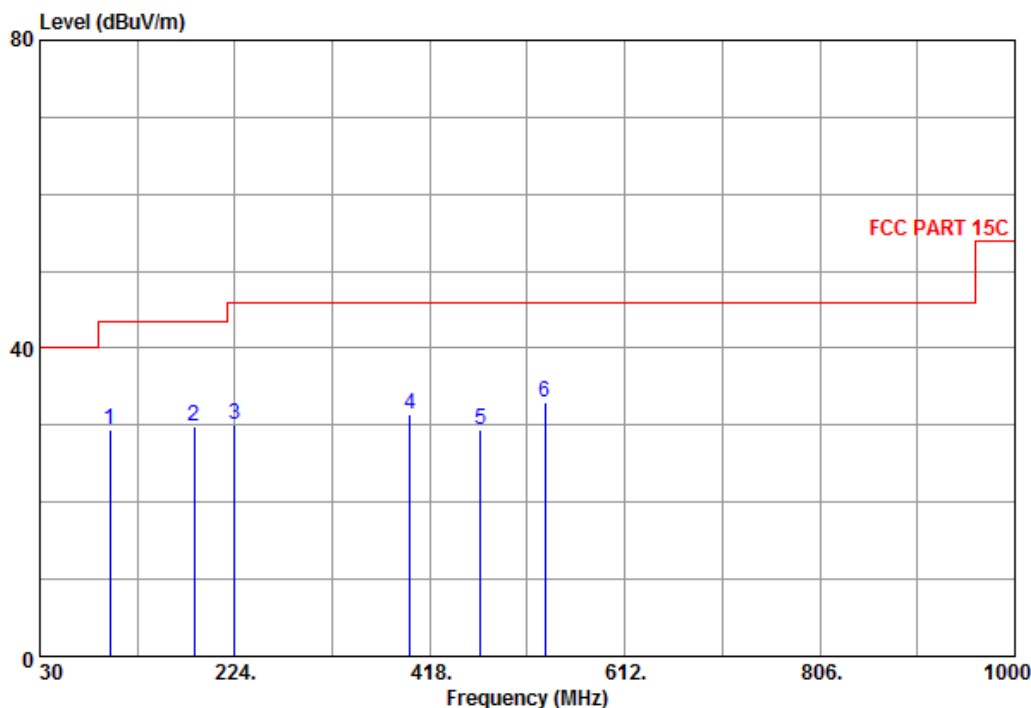
@ : Maximum Data x : Over Limit

Remark :

1. Measuring frequencies from 30 MHz to 1 GHz.
2. Radiated emissions measured in frequency range from 30 MHz to 1000 MHz were made with an instrument using Q.P. detector mode.
3. Data of measurement within this frequency range shown "----" in the table above means the reading of emissions are attenuated more than 20 dB below the permissible limits or the field strength is too small to be measured.
4. The IF bandwidth of SPA between 30 MHz to 1 GHz was 100 kHz.

### Radiated Emission Test Data (Below 1 GHz)

|              |               |           |             |
|--------------|---------------|-----------|-------------|
| Temperature  | : 26°C        | Humidity  | : 33%       |
| Test Date    | : 09-Oct-2013 | Tested by | : Kidd Liao |
| Polarization | : Vertical    | Channel   | : 78        |
| Test Mode    | : Mode 3      |           |             |



|     | Freq    | Reading | C.F    | Result | Limit  | Margin | A/pos | T/pos | Remark |
|-----|---------|---------|--------|--------|--------|--------|-------|-------|--------|
|     | MHz     | dBuV    | dB     | dBuV/m | dBuV/m | dB     |       |       |        |
| 1   | 99.840  | 51.73   | -22.28 | 29.45  | 43.50  | -14.05 | ---   | ---   |        |
| 2   | 183.260 | 47.25   | -17.38 | 29.87  | 43.50  | -13.63 | ---   | ---   |        |
| 3   | 224.000 | 48.27   | -18.17 | 30.10  | 46.00  | -15.90 | ---   | ---   |        |
| 4   | 398.600 | 45.17   | -13.85 | 31.32  | 46.00  | -14.68 | ---   | ---   |        |
| 5   | 468.440 | 42.15   | -12.75 | 29.40  | 46.00  | -16.60 | ---   | ---   |        |
| 6 @ | 532.460 | 43.55   | -10.60 | 32.95  | 46.00  | -13.05 | ---   | ---   |        |

C.F = Antenna Factor + Cable Loss - Preamp gain  
 Result = Reading + C.F ; Margin = Result - Limit

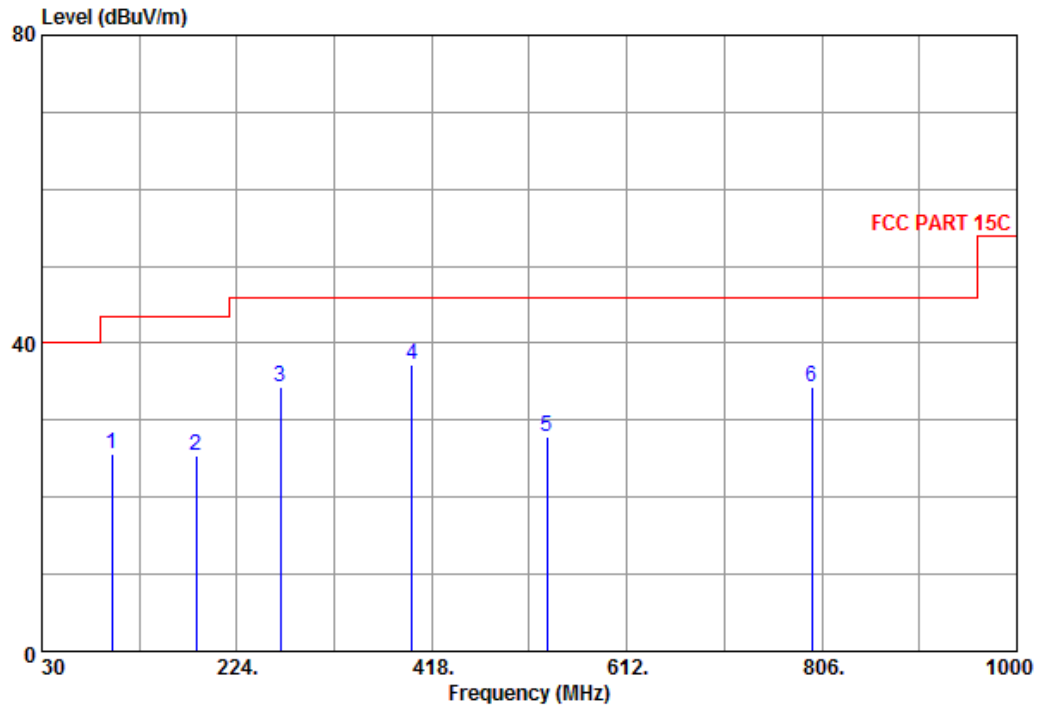
@ : Maximum Data    x : Over Limit

Remark :

1. Measuring frequencies from 30 MHz to 1 GHz.
2. Radiated emissions measured in frequency range from 30 MHz to 1000 MHz were made with an instrument using Q.P. detector mode.
3. Data of measurement within this frequency range shown "----" in the table above means the reading of emissions are attenuated more than 20 dB below the permissible limits or the field strength is too small to be measured.
4. The IF bandwidth of SPA between 30 MHz to 1 GHz was 100 kHz.

### Radiated Emission Test Data (Below 1 GHz)

|              |               |           |             |
|--------------|---------------|-----------|-------------|
| Temperature  | : 26°C        | Humidity  | : 33%       |
| Test Date    | : 09-Oct-2013 | Tested by | : Kidd Liao |
| Polarization | : Horizontal  | Channel   | : 00        |
| Test Mode    | : Mode 4      |           |             |



|   | Freq    | Reading | C.F    | Result | Limit  | Margin | A/pos | T/pos | Remark |
|---|---------|---------|--------|--------|--------|--------|-------|-------|--------|
|   | MHz     | dBuV    | dB     | dBuV/m | dBuV/m | dB     |       |       |        |
| 1 | 99.840  | 47.92   | -22.28 | 25.64  | 43.50  | -17.86 | ---   | ---   |        |
| 2 | 183.260 | 42.77   | -17.38 | 25.39  | 43.50  | -18.11 | ---   | ---   |        |
| 3 | 267.650 | 53.34   | -18.92 | 34.42  | 46.00  | -11.58 | ---   | ---   |        |
| 4 | 398.600 | 51.02   | -13.85 | 37.17  | 46.00  | -8.83  | ---   | ---   |        |
| 5 | 532.460 | 38.40   | -10.60 | 27.80  | 46.00  | -18.20 | ---   | ---   |        |
| 6 | 796.300 | 39.88   | -5.61  | 34.27  | 46.00  | -11.73 | ---   | ---   |        |

C.F = Antenna Factor + Cable Loss - Preamp gain  
Result = Reading + C.F ; Margin = Result - Limit

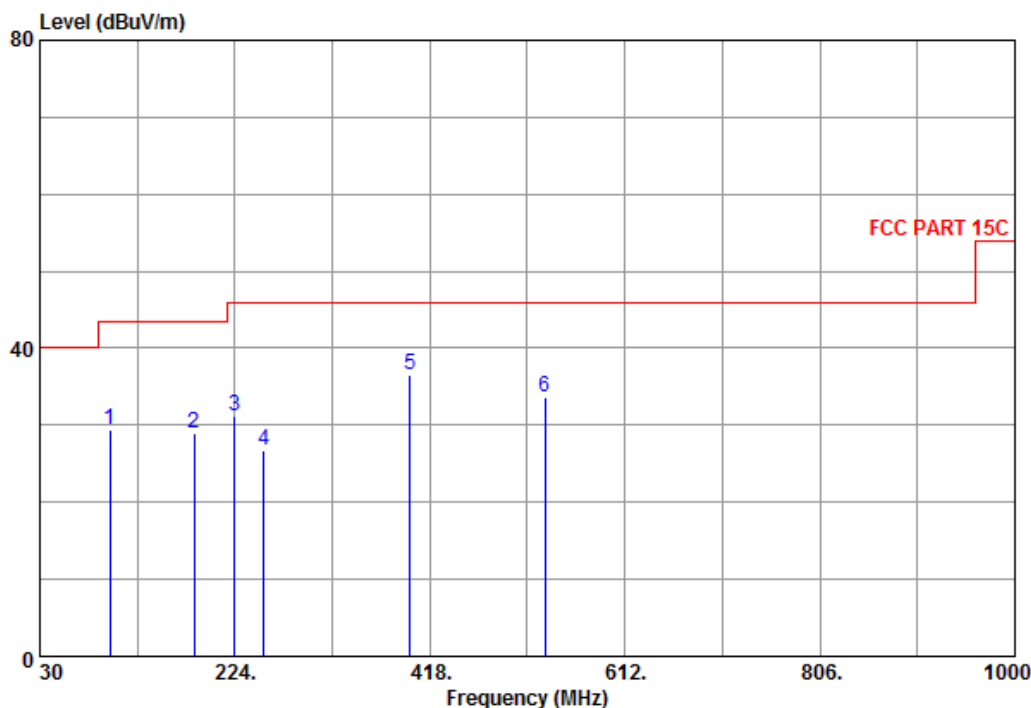
@ : Maximum Data x : Over Limit

#### Remark :

1. Measuring frequencies from 30 MHz to 1 GHz.
2. Radiated emissions measured in frequency range from 30 MHz to 1000 MHz were made with an instrument using Q.P. detector mode.
3. Data of measurement within this frequency range shown "----" in the table above means the reading of emissions are attenuated more than 20 dB below the permissible limits or the field strength is too small to be measured.
4. The IF bandwidth of SPA between 30 MHz to 1 GHz was 100 kHz.

## Radiated Emission Test Data (Below 1 GHz)

|              |               |           |             |
|--------------|---------------|-----------|-------------|
| Temperature  | : 26°C        | Humidity  | : 33%       |
| Test Date    | : 09-Oct-2013 | Tested by | : Kidd Liao |
| Polarization | : Vertical    | Channel   | : 00        |
| Test Mode    | : Mode 4      |           |             |



|   | Freq    | Reading | C.F    | Result | Limit  | Margin | A/pos | T/pos | Remark |
|---|---------|---------|--------|--------|--------|--------|-------|-------|--------|
|   | MHz     | dBuV    | dB     | dBuV/m | dBuV/m | dB     |       |       |        |
| 1 | 99.840  | 51.69   | -22.28 | 29.41  | 43.50  | -14.09 | ---   | ---   |        |
| 2 | 183.260 | 46.32   | -17.38 | 28.94  | 43.50  | -14.56 | ---   | ---   |        |
| 3 | 224.000 | 49.28   | -18.17 | 31.11  | 46.00  | -14.89 | ---   | ---   |        |
| 4 | 253.100 | 46.00   | -19.19 | 26.81  | 46.00  | -19.19 | ---   | ---   |        |
| 5 | 398.600 | 50.37   | -13.85 | 36.52  | 46.00  | -9.48  | ---   | ---   |        |
| 6 | 532.460 | 44.29   | -10.60 | 33.69  | 46.00  | -12.31 | ---   | ---   |        |

C.F = Antenna Factor + Cable Loss - Preamp gain  
Result = Reading + C.F ; Margin = Result - Limit

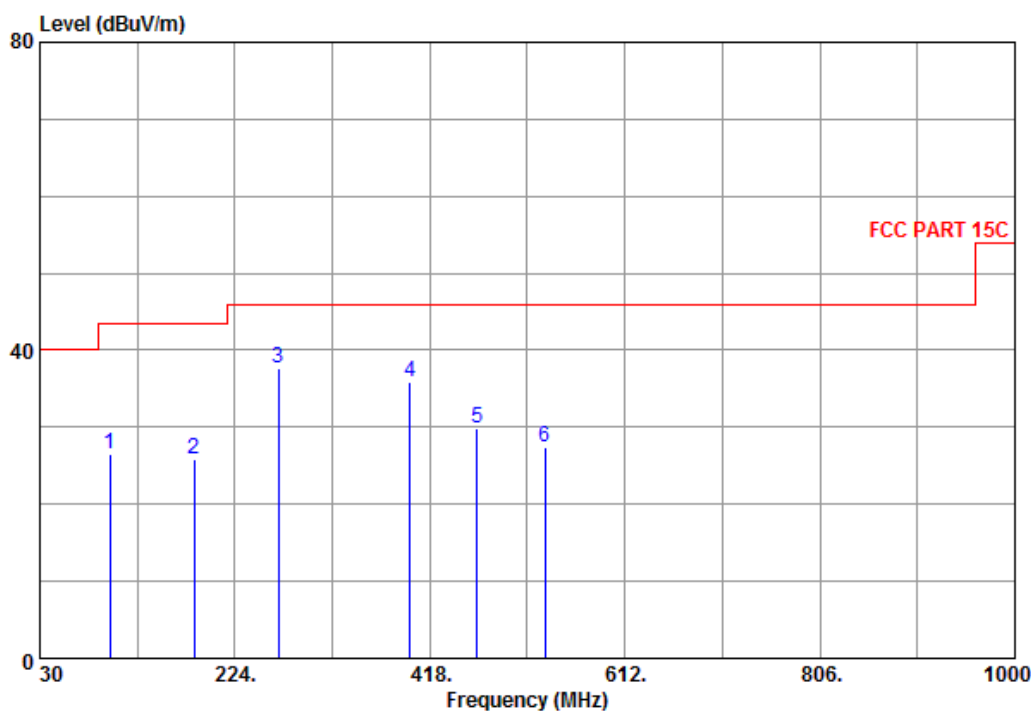
@ : Maximum Data    x : Over Limit

Remark :

1. Measuring frequencies from 30 MHz to 1 GHz.
2. Radiated emissions measured in frequency range from 30 MHz to 1000 MHz were made with an instrument using Q.P. detector mode.
3. Data of measurement within this frequency range shown "----" in the table above means the reading of emissions are attenuated more than 20 dB below the permissible limits or the field strength is too small to be measured.
4. The IF bandwidth of SPA between 30 MHz to 1 GHz was 100 kHz.

## Radiated Emission Test Data (Below 1 GHz)

|              |               |           |             |
|--------------|---------------|-----------|-------------|
| Temperature  | : 26°C        | Humidity  | : 33%       |
| Test Date    | : 09-Oct-2013 | Tested by | : Kidd Liao |
| Polarization | : Horizontal  | Channel   | : 39        |
| Test Mode    | : Mode 5      |           |             |



|     | Freq    | Reading | C.F    | Result | Limit  | Margin | A/pos | T/pos | Remark |
|-----|---------|---------|--------|--------|--------|--------|-------|-------|--------|
|     | MHz     | dBuV    | dB     | dBuV/m | dBuV/m | dB     |       |       |        |
| 1   | 99.840  | 48.69   | -22.28 | 26.41  | 43.50  | -17.09 | ---   | ---   |        |
| 2   | 183.260 | 43.22   | -17.38 | 25.84  | 43.50  | -17.66 | ---   | ---   |        |
| 3 @ | 267.650 | 56.48   | -18.92 | 37.56  | 46.00  | -8.44  | ---   | ---   |        |
| 4   | 398.600 | 49.83   | -13.85 | 35.98  | 46.00  | -10.02 | ---   | ---   |        |
| 5   | 464.560 | 42.57   | -12.78 | 29.79  | 46.00  | -16.21 | ---   | ---   |        |
| 6   | 532.460 | 38.03   | -10.60 | 27.43  | 46.00  | -18.57 | ---   | ---   |        |

C.F = Antenna Factor + Cable Loss - Preamp gain  
Result = Reading + C.F ; Margin = Result - Limit

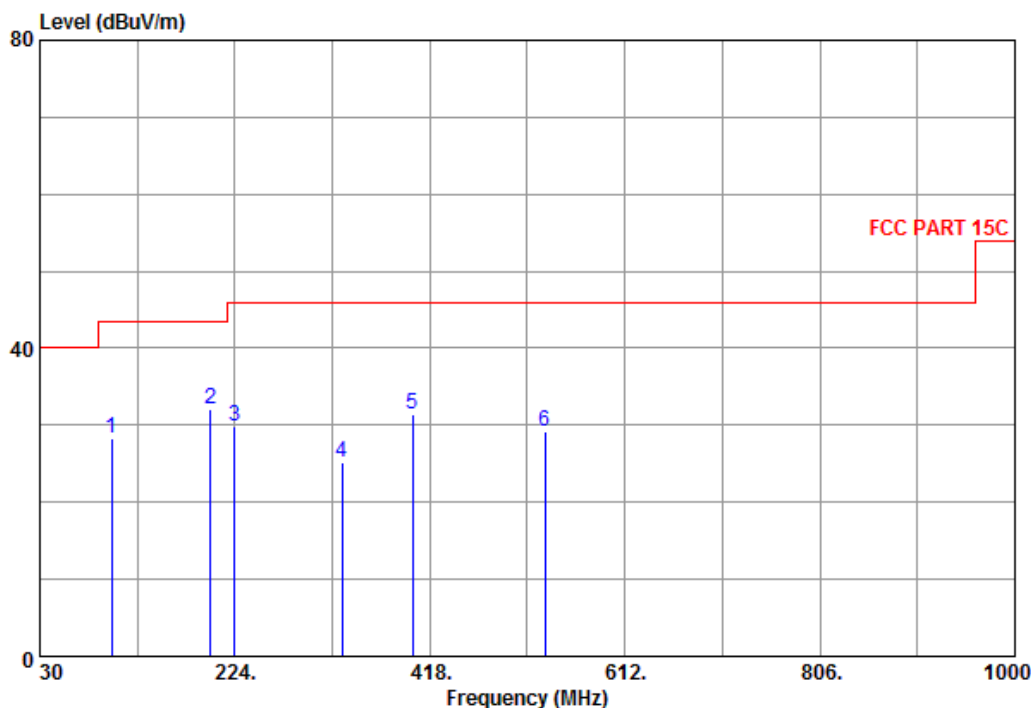
@ : Maximum Data x : Over Limit

Remark :

1. Measuring frequencies from 30 MHz to 1 GHz.
2. Radiated emissions measured in frequency range from 30 MHz to 1000 MHz were made with an instrument using Q.P. detector mode.
3. Data of measurement within this frequency range shown "----" in the table above means the reading of emissions are attenuated more than 20 dB below the permissible limits or the field strength is too small to be measured.
4. The IF bandwidth of SPA between 30 MHz to 1 GHz was 100 kHz.

### Radiated Emission Test Data (Below 1 GHz)

|              |               |           |             |
|--------------|---------------|-----------|-------------|
| Temperature  | : 26°C        | Humidity  | : 33%       |
| Test Date    | : 09-Oct-2013 | Tested by | : Kidd Liao |
| Polarization | : Vertical    | Channel   | : 38        |
| Test Mode    | : Mode 5      |           |             |



|   | Freq      | Reading | C.F    | Result | Limit  | Margin | A/pos | T/pos | Remark |
|---|-----------|---------|--------|--------|--------|--------|-------|-------|--------|
|   | MHz       | dBuV    | dB     | dBuV/m | dBuV/m | dB     |       |       |        |
| 1 | 101.780   | 51.47   | -23.21 | 28.26  | 43.50  | -15.24 | ---   | ---   |        |
| 2 | @ 199.750 | 49.25   | -17.24 | 32.01  | 43.50  | -11.49 | ---   | ---   |        |
| 3 | 224.000   | 47.94   | -18.17 | 29.77  | 46.00  | -16.23 | ---   | ---   |        |
| 4 | 330.700   | 40.68   | -15.58 | 25.10  | 46.00  | -20.90 | ---   | ---   |        |
| 5 | 400.540   | 45.48   | -13.97 | 31.51  | 46.00  | -14.49 | ---   | ---   |        |
| 6 | 532.460   | 39.88   | -10.60 | 29.28  | 46.00  | -16.72 | ---   | ---   |        |

C.F = Antenna Factor + Cable Loss - Preamp gain  
Result = Reading + C.F ; Margin = Result - Limit

@ :Maximum Data x :Over Limit

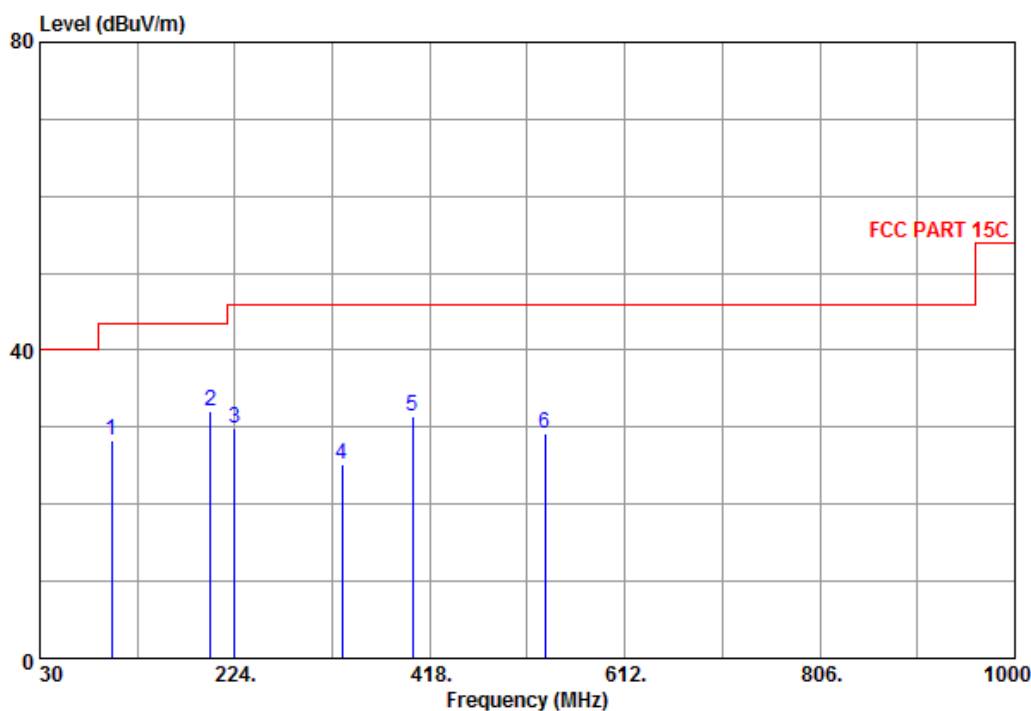
Remark :

1. Measuring frequencies from 30 MHz to 1 GHz.
2. Radiated emissions measured in frequency range from 30 MHz to 1000 MHz were made with an instrument using Q.P. detector mode.
3. Data of measurement within this frequency range shown "----" in the table above means the reading of emissions are attenuated more than 20 dB below the permissible limits or the field strength is too small to be measured.
4. The IF bandwidth of SPA between 30 MHz to 1 GHz was 100 kHz.



## Radiated Emission Test Data (Below 1 GHz)

|              |               |           |             |
|--------------|---------------|-----------|-------------|
| Temperature  | : 26°C        | Humidity  | : 33%       |
| Test Date    | : 09-Oct-2013 | Tested by | : Kidd Liao |
| Polarization | : Horizontal  | Channel   | : 38        |
| Test Mode    | : Mode 5      |           |             |



|   | Freq      | Reading | C.F    | Result | Limit  | Margin | A/pos | T/pos | Remark |
|---|-----------|---------|--------|--------|--------|--------|-------|-------|--------|
|   | MHz       | dBuV    | dB     | dBuV/m | dBuV/m | dB     |       |       |        |
| 1 | 101.780   | 51.47   | -23.21 | 28.26  | 43.50  | -15.24 | ---   | ---   |        |
| 2 | @ 199.750 | 49.25   | -17.24 | 32.01  | 43.50  | -11.49 | ---   | ---   |        |
| 3 | 224.000   | 47.94   | -18.17 | 29.77  | 46.00  | -16.23 | ---   | ---   |        |
| 4 | 330.700   | 40.68   | -15.58 | 25.10  | 46.00  | -20.90 | ---   | ---   |        |
| 5 | 400.540   | 45.48   | -13.97 | 31.51  | 46.00  | -14.49 | ---   | ---   |        |
| 6 | 532.460   | 39.88   | -10.60 | 29.28  | 46.00  | -16.72 | ---   | ---   |        |

C.F = Antenna Factor + Cable Loss - Preamp gain  
 Result = Reading + C.F ; Margin = Result - Limit

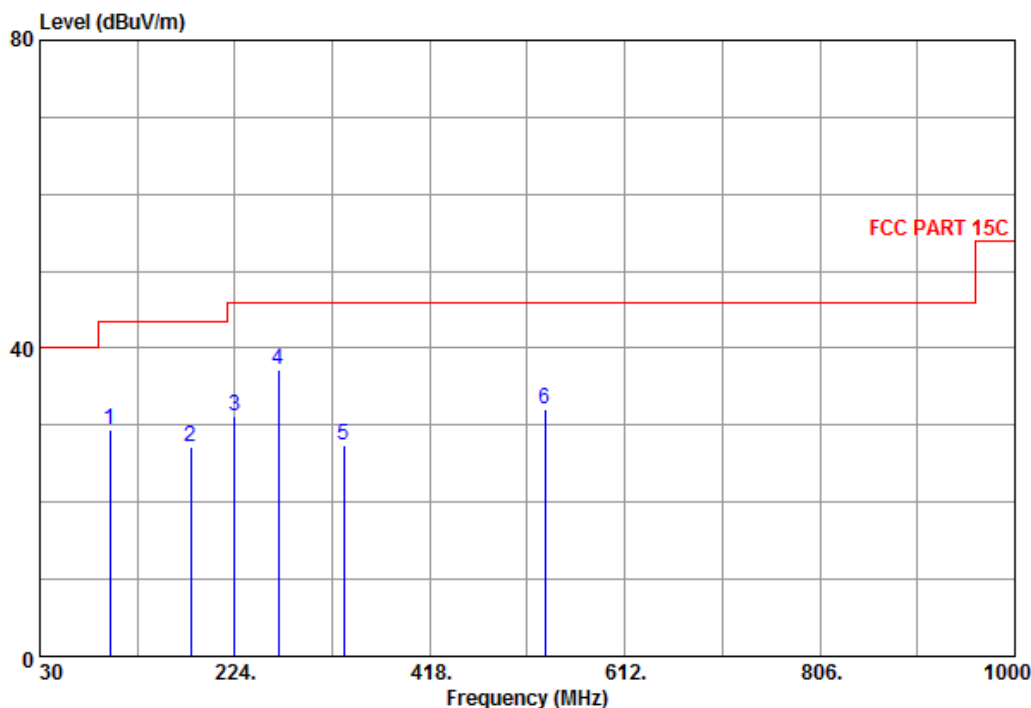
@ : Maximum Data    x : Over Limit

### Remark :

1. Measuring frequencies from 30 MHz to 1 GHz.
2. Radiated emissions measured in frequency range from 30 MHz to 1000 MHz were made with an instrument using Q.P. detector mode.
3. Data of measurement within this frequency range shown "----" in the table above means the reading of emissions are attenuated more than 20 dB below the permissible limits or the field strength is too small to be measured.
4. The IF bandwidth of SPA between 30 MHz to 1 GHz was 100 kHz.

## Radiated Emission Test Data (Below 1 GHz)

|              |               |           |             |
|--------------|---------------|-----------|-------------|
| Temperature  | : 26°C        | Humidity  | : 33%       |
| Test Date    | : 09-Oct-2013 | Tested by | : Kidd Liao |
| Polarization | : Horizontal  | Channel   | : 79        |
| Test Mode    | : Mode 6      |           |             |



|   | Freq      | Reading | C.F    | Result | Limit  | Margin | A/pos | T/pos | Remark |
|---|-----------|---------|--------|--------|--------|--------|-------|-------|--------|
|   | MHz       | dBuV    | dB     | dBuV/m | dBuV/m | dB     |       |       |        |
| 1 | 99.840    | 51.59   | -22.28 | 29.31  | 43.50  | -14.19 | ---   | ---   |        |
| 2 | 180.350   | 44.69   | -17.39 | 27.30  | 43.50  | -16.20 | ---   | ---   |        |
| 3 | 224.000   | 49.32   | -18.17 | 31.15  | 46.00  | -14.85 | ---   | ---   |        |
| 4 | @ 267.650 | 56.13   | -18.92 | 37.21  | 46.00  | -8.79  | ---   | ---   |        |
| 5 | 332.640   | 42.74   | -15.44 | 27.30  | 46.00  | -18.70 | ---   | ---   |        |
| 6 | 532.460   | 42.74   | -10.60 | 32.14  | 46.00  | -13.86 | ---   | ---   |        |

C.F = Antenna Factor + Cable Loss - Preamp gain  
Result = Reading + C.F ; Margin = Result - Limit

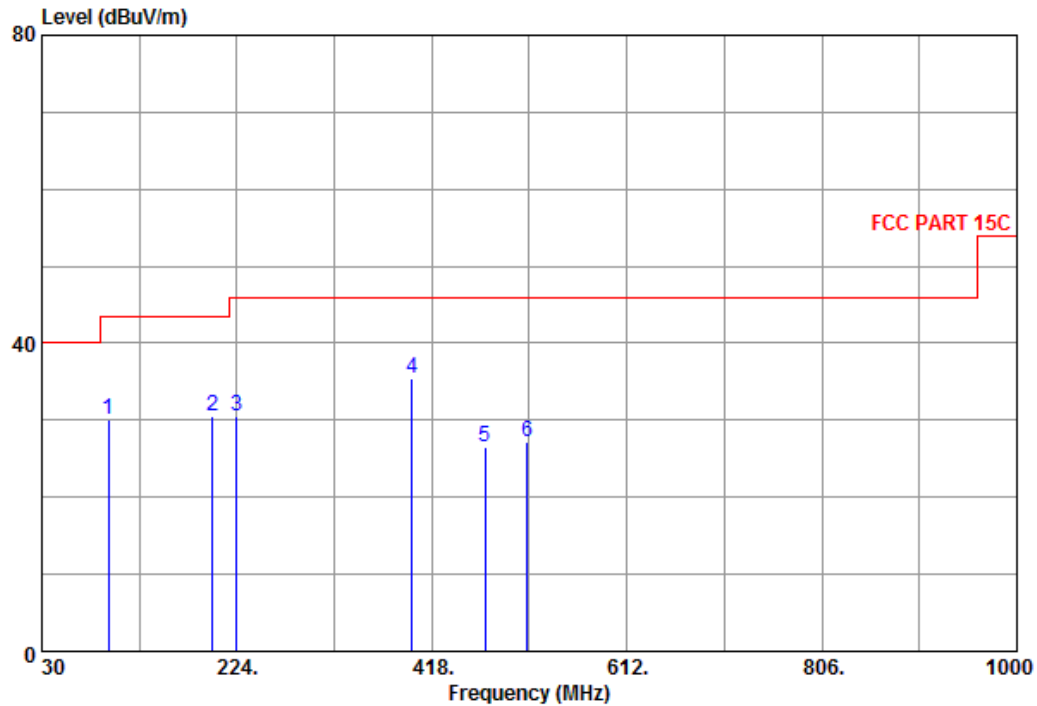
@ :Maximum Data    x :Over Limit

Remark :

1. Measuring frequencies from 30 MHz to 1 GHz.
2. Radiated emissions measured in frequency range from 30 MHz to 1000 MHz were made with an instrument using Q.P. detector mode.
3. Data of measurement within this frequency range shown "----" in the table above means the reading of emissions are attenuated more than 20 dB below the permissible limits or the field strength is too small to be measured.
4. The IF bandwidth of SPA between 30 MHz to 1 GHz was 100 kHz.

### Radiated Emission Test Data (Below 1 GHz)

|              |               |           |             |
|--------------|---------------|-----------|-------------|
| Temperature  | : 26°C        | Humidity  | : 33%       |
| Test Date    | : 09-Oct-2013 | Tested by | : Kidd Liao |
| Polarization | : Vertical    | Channel   | : 79        |
| Test Mode    | : Mode 6      |           |             |



|   | Freq      | Reading | C.F    | Result | Limit  | Margin | A/pos | T/pos | Remark |
|---|-----------|---------|--------|--------|--------|--------|-------|-------|--------|
|   | MHz       | dBuV    | dB     | dBuV/m | dBuV/m | dB     |       |       |        |
| 1 | 95.960    | 53.12   | -23.07 | 30.05  | 43.50  | -13.45 | ---   | ---   |        |
| 2 | 199.750   | 47.75   | -17.24 | 30.51  | 43.50  | -12.99 | ---   | ---   |        |
| 3 | 224.000   | 48.69   | -18.17 | 30.52  | 46.00  | -15.48 | ---   | ---   |        |
| 4 | @ 398.600 | 49.24   | -13.85 | 35.39  | 46.00  | -10.61 | ---   | ---   |        |
| 5 | 471.350   | 39.21   | -12.73 | 26.48  | 46.00  | -19.52 | ---   | ---   |        |
| 6 | 513.060   | 38.22   | -10.92 | 27.30  | 46.00  | -18.70 | ---   | ---   |        |

C.F = Antenna Factor + Cable Loss - Preamp gain  
Result = Reading + C.F ; Margin = Result - Limit

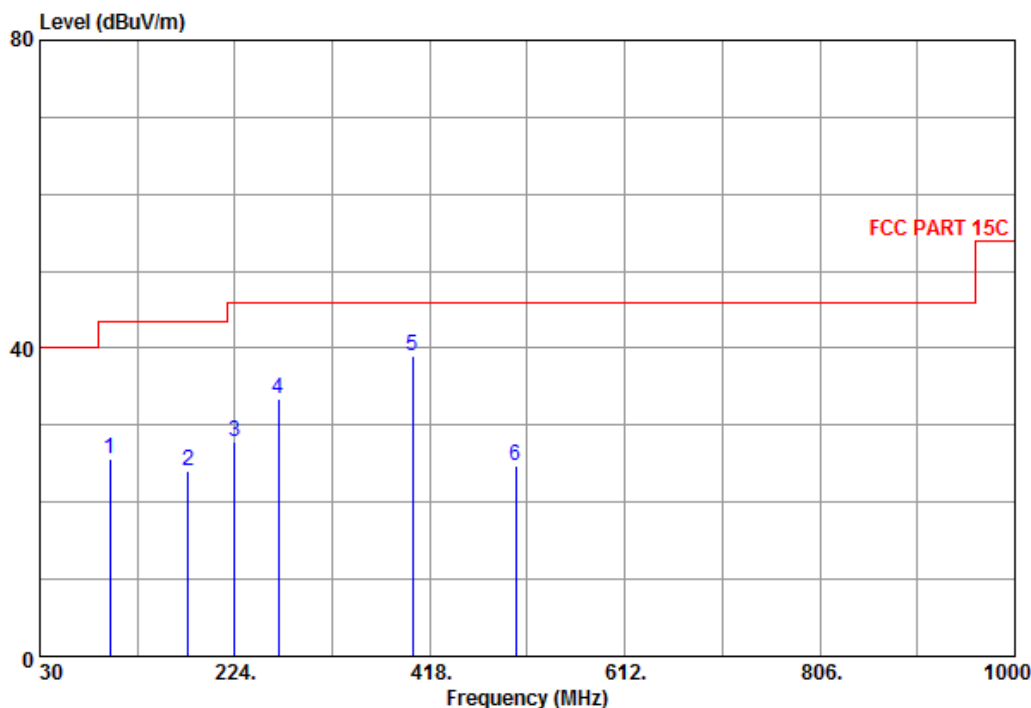
@ : Maximum Data x : Over Limit

#### Remark :

1. Measuring frequencies from 30 MHz to 1 GHz.
2. Radiated emissions measured in frequency range from 30 MHz to 1000 MHz were made with an instrument using Q.P. detector mode.
3. Data of measurement within this frequency range shown "----" in the table above means the reading of emissions are attenuated more than 20 dB below the permissible limits or the field strength is too small to be measured.
4. The IF bandwidth of SPA between 30 MHz to 1 GHz was 100 kHz.

### Radiated Emission Test Data (Below 1 GHz)

|              |               |           |             |
|--------------|---------------|-----------|-------------|
| Temperature  | : 26°C        | Humidity  | : 33%       |
| Test Date    | : 09-Oct-2013 | Tested by | : Kidd Liao |
| Polarization | : Horizontal  | Channel   | : 00        |
| Test Mode    | : Mode 7      |           |             |



|     | Freq    | Reading | C.F    | Result | Limit  | Margin | A/pos | T/pos | Remark |
|-----|---------|---------|--------|--------|--------|--------|-------|-------|--------|
|     | MHz     | dBuV    | dB     | dBuV/m | dBuV/m | dB     |       |       |        |
| 1   | 99.840  | 47.82   | -22.28 | 25.54  | 43.50  | -17.96 | ---   | ---   |        |
| 2   | 177.440 | 42.82   | -18.74 | 24.08  | 43.50  | -19.42 | ---   | ---   |        |
| 3   | 224.000 | 46.13   | -18.17 | 27.96  | 46.00  | -18.04 | ---   | ---   |        |
| 4   | 267.650 | 52.41   | -18.92 | 33.49  | 46.00  | -12.51 | ---   | ---   |        |
| 5 @ | 400.540 | 52.95   | -13.97 | 38.98  | 46.00  | -7.02  | ---   | ---   |        |
| 6   | 503.360 | 35.99   | -11.18 | 24.81  | 46.00  | -21.19 | ---   | ---   |        |

C.F = Antenna Factor + Cable Loss - Preamp gain  
Result = Reading + C.F ; Margin = Result - Limit

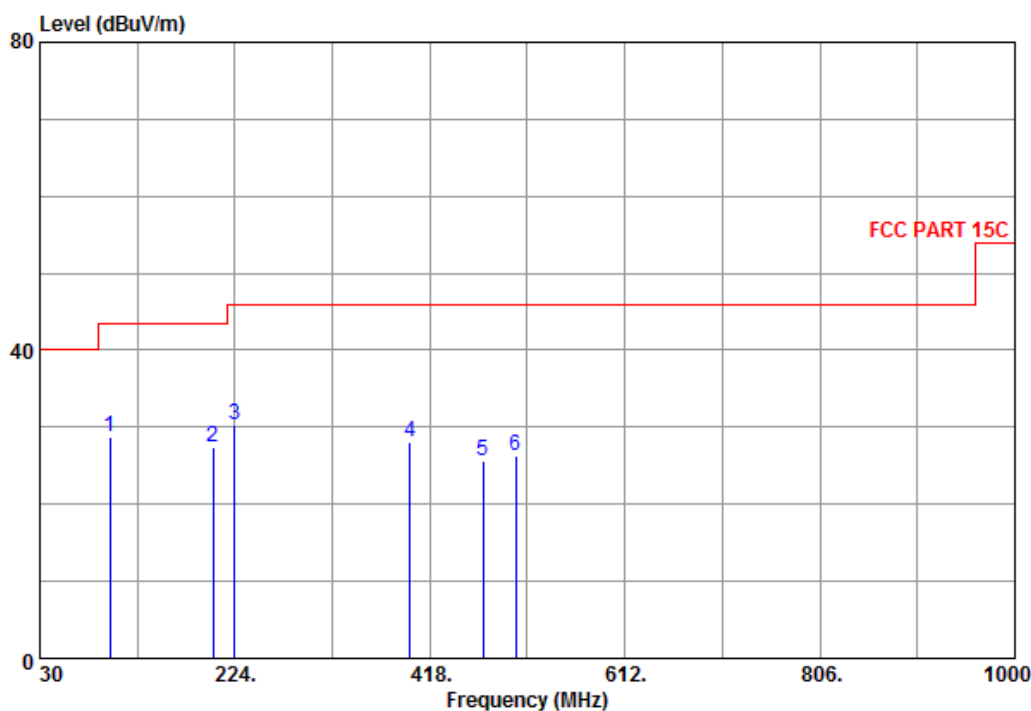
@ :Maximum Data x :Over Limit

Remark :

1. Measuring frequencies from 30 MHz to 1 GHz.
2. Radiated emissions measured in frequency range from 30 MHz to 1000 MHz were made with an instrument using Q.P. detector mode.
3. Data of measurement within this frequency range shown "----" in the table above means the reading of emissions are attenuated more than 20 dB below the permissible limits or the field strength is too small to be measured.
4. The IF bandwidth of SPA between 30 MHz to 1 GHz was 100 kHz.

## Radiated Emission Test Data (Below 1 GHz)

|              |               |           |             |
|--------------|---------------|-----------|-------------|
| Temperature  | : 26°C        | Humidity  | : 33%       |
| Test Date    | : 09-Oct-2013 | Tested by | : Kidd Liao |
| Polarization | : Vertical    | Channel   | : 00        |
| Test Mode    | : Mode 7      |           |             |



|     | Freq    | Reading | C.F    | Result | Limit  | Margin | A/pos | T/pos | Remark |
|-----|---------|---------|--------|--------|--------|--------|-------|-------|--------|
|     | MHz     | dBuV    | dB     | dBuV/m | dBuV/m | dB     |       |       |        |
| 1 @ | 99.840  | 50.93   | -22.28 | 28.65  | 43.50  | -14.85 | ---   | ---   |        |
| 2   | 202.660 | 44.65   | -17.33 | 27.32  | 43.50  | -16.18 | ---   | ---   |        |
| 3   | 224.000 | 48.57   | -18.17 | 30.40  | 46.00  | -15.60 | ---   | ---   |        |
| 4   | 398.600 | 41.87   | -13.85 | 28.02  | 46.00  | -17.98 | ---   | ---   |        |
| 5   | 471.350 | 38.26   | -12.73 | 25.53  | 46.00  | -20.47 | ---   | ---   |        |
| 6   | 503.360 | 37.52   | -11.18 | 26.34  | 46.00  | -19.66 | ---   | ---   |        |

C.F = Antenna Factor + Cable Loss - Preamp gain  
Result = Reading + C.F ; Margin = Result - Limit

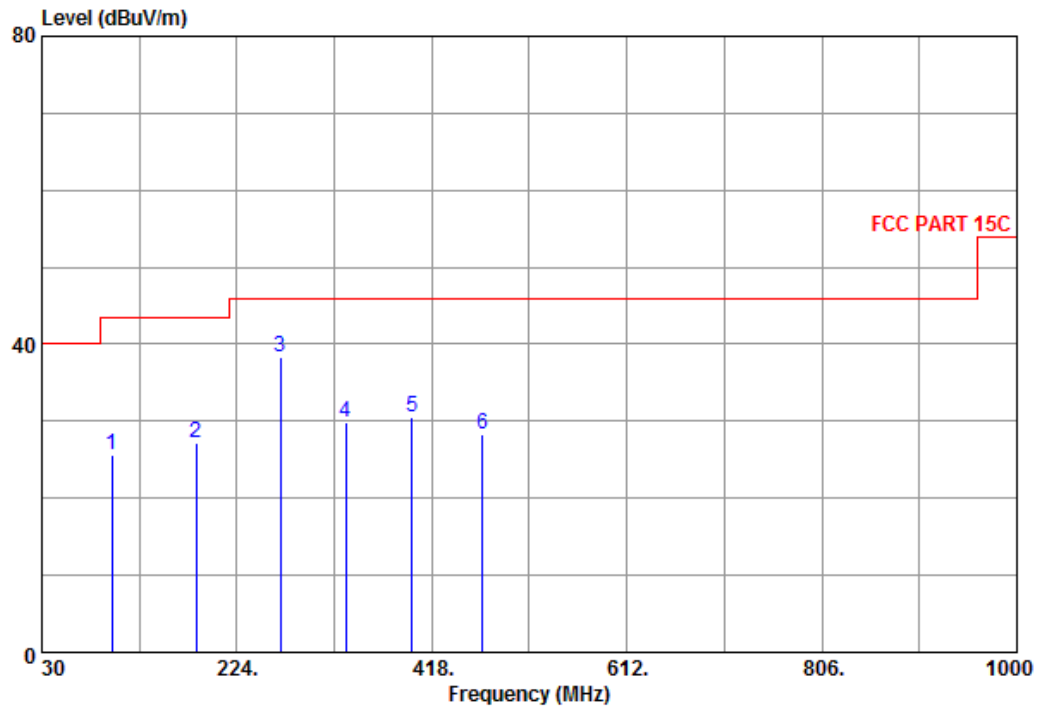
@ : Maximum Data    x : Over Limit

Remark :

1. Measuring frequencies from 30 MHz to 1 GHz.
2. Radiated emissions measured in frequency range from 30 MHz to 1000 MHz were made with an instrument using Q.P. detector mode.
3. Data of measurement within this frequency range shown "----" in the table above means the reading of emissions are attenuated more than 20 dB below the permissible limits or the field strength is too small to be measured.
4. The IF bandwidth of SPA between 30 MHz to 1 GHz was 100 kHz.

### Radiated Emission Test Data (Below 1 GHz)

|              |               |           |             |
|--------------|---------------|-----------|-------------|
| Temperature  | : 26°C        | Humidity  | : 33%       |
| Test Date    | : 09-Oct-2013 | Tested by | : Kidd Liao |
| Polarization | : Horizontal  | Channel   | : 39        |
| Test Mode    | : Mode 8      |           |             |



|     | Freq    | Reading | C.F    | Result | Limit  | Margin | A/pos | T/pos | Remark |
|-----|---------|---------|--------|--------|--------|--------|-------|-------|--------|
|     | MHz     | dBuV    | dB     | dBuV/m | dBuV/m | dB     |       |       |        |
| 1   | 99.840  | 47.87   | -22.28 | 25.59  | 43.50  | -17.91 | ---   | ---   |        |
| 2   | 183.260 | 44.51   | -17.38 | 27.13  | 43.50  | -16.37 | ---   | ---   |        |
| 3 @ | 267.650 | 57.18   | -18.92 | 38.26  | 46.00  | -7.74  | ---   | ---   |        |
| 4   | 332.640 | 45.29   | -15.44 | 29.85  | 46.00  | -16.15 | ---   | ---   |        |
| 5   | 398.600 | 44.45   | -13.85 | 30.60  | 46.00  | -15.40 | ---   | ---   |        |
| 6   | 468.440 | 40.98   | -12.75 | 28.23  | 46.00  | -17.77 | ---   | ---   |        |

C.F = Antenna Factor + Cable Loss - Preamp gain  
Result = Reading + C.F ; Margin = Result - Limit

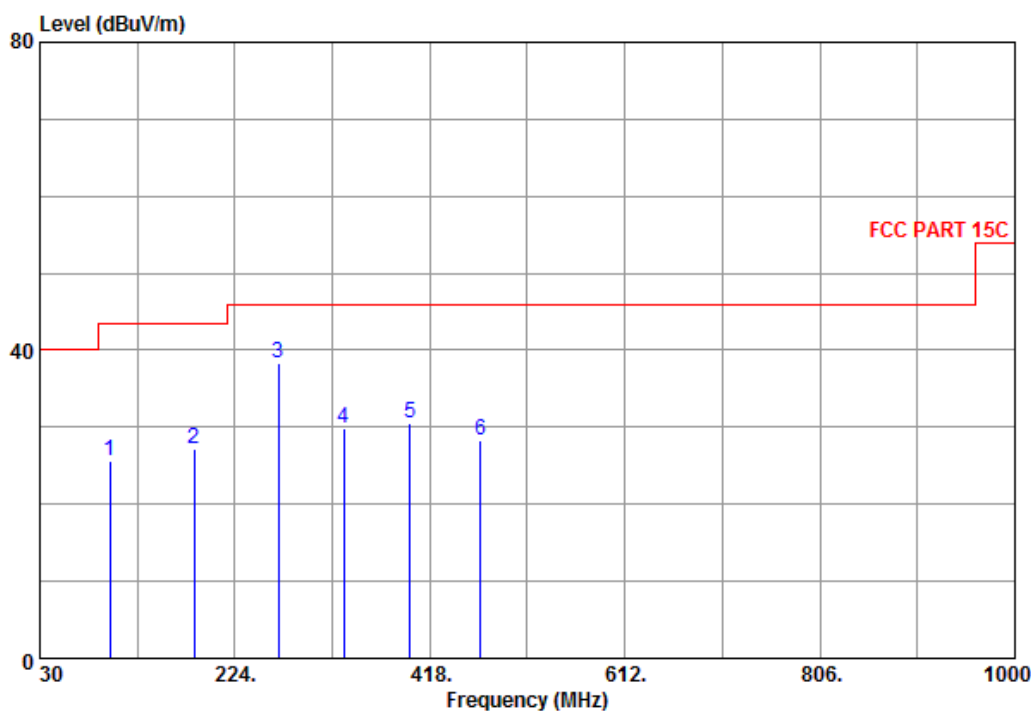
@ :Maximum Data x :Over Limit

Remark :

1. Measuring frequencies from 30 MHz to 1 GHz.
2. Radiated emissions measured in frequency range from 30 MHz to 1000 MHz were made with an instrument using Q.P. detector mode.
3. Data of measurement within this frequency range shown "----" in the table above means the reading of emissions are attenuated more than 20 dB below the permissible limits or the field strength is too small to be measured.
4. The IF bandwidth of SPA between 30 MHz to 1 GHz was 100 kHz.

## Radiated Emission Test Data (Below 1 GHz)

|              |               |           |             |
|--------------|---------------|-----------|-------------|
| Temperature  | : 26°C        | Humidity  | : 33%       |
| Test Date    | : 09-Oct-2013 | Tested by | : Kidd Liao |
| Polarization | : Vertical    | Channel   | : 39        |
| Test Mode    | : Mode 8      |           |             |



|     | Freq    | Reading | C.F    | Result | Limit  | Margin | A/pos | T/pos | Remark |
|-----|---------|---------|--------|--------|--------|--------|-------|-------|--------|
|     | MHz     | dBuV    | dB     | dBuV/m | dBuV/m | dB     |       |       |        |
| 1   | 99.840  | 47.87   | -22.28 | 25.59  | 43.50  | -17.91 | ---   | ---   |        |
| 2   | 183.260 | 44.51   | -17.38 | 27.13  | 43.50  | -16.37 | ---   | ---   |        |
| 3 @ | 267.650 | 57.18   | -18.92 | 38.26  | 46.00  | -7.74  | ---   | ---   |        |
| 4   | 332.640 | 45.29   | -15.44 | 29.85  | 46.00  | -16.15 | ---   | ---   |        |
| 5   | 398.600 | 44.45   | -13.85 | 30.60  | 46.00  | -15.40 | ---   | ---   |        |
| 6   | 468.440 | 40.98   | -12.75 | 28.23  | 46.00  | -17.77 | ---   | ---   |        |

C.F = Antenna Factor + Cable Loss - Preamp gain  
 Result = Reading + C.F ; Margin = Result - Limit

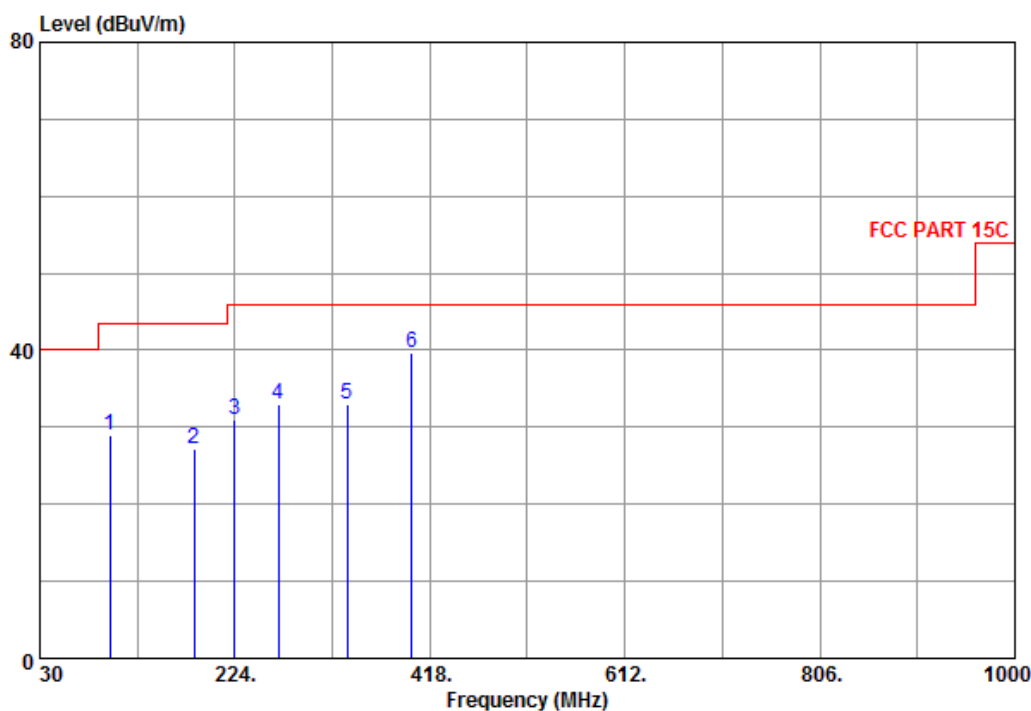
@ : Maximum Data x : Over Limit

Remark :

1. Measuring frequencies from 30 MHz to 1 GHz.
2. Radiated emissions measured in frequency range from 30 MHz to 1000 MHz were made with an instrument using Q.P. detector mode.
3. Data of measurement within this frequency range shown "----" in the table above means the reading of emissions are attenuated more than 20 dB below the permissible limits or the field strength is too small to be measured.
4. The IF bandwidth of SPA between 30 MHz to 1 GHz was 100 kHz.

## Radiated Emission Test Data (Below 1 GHz)

|              |               |           |             |
|--------------|---------------|-----------|-------------|
| Temperature  | : 26°C        | Humidity  | : 33%       |
| Test Date    | : 09-Oct-2013 | Tested by | : Kidd Liao |
| Polarization | : Horizontal  | Channel   | : 78        |
| Test Mode    | : Mode 9      |           |             |



|     | Freq    | Reading | C.F    | Result | Limit  | Margin | A/pos | T/pos | Remark |
|-----|---------|---------|--------|--------|--------|--------|-------|-------|--------|
|     | MHz     | dBuV    | dB     | dBuV/m | dBuV/m | dB     |       |       |        |
| 1   | 99.840  | 51.15   | -22.28 | 28.87  | 43.50  | -14.63 | ---   | ---   |        |
| 2   | 183.260 | 44.63   | -17.38 | 27.25  | 43.50  | -16.25 | ---   | ---   |        |
| 3   | 224.000 | 49.18   | -18.17 | 31.01  | 46.00  | -14.99 | ---   | ---   |        |
| 4   | 267.650 | 51.98   | -18.92 | 33.06  | 46.00  | -12.94 | ---   | ---   |        |
| 5   | 335.550 | 48.31   | -15.25 | 33.06  | 46.00  | -12.94 | ---   | ---   |        |
| 6 @ | 399.570 | 53.46   | -13.86 | 39.60  | 46.00  | -6.40  | ---   | ---   |        |

C.F = Antenna Factor + Cable Loss - Preamp gain  
Result = Reading + C.F ; Margin = Result - Limit

@ : Maximum Data x : Over Limit

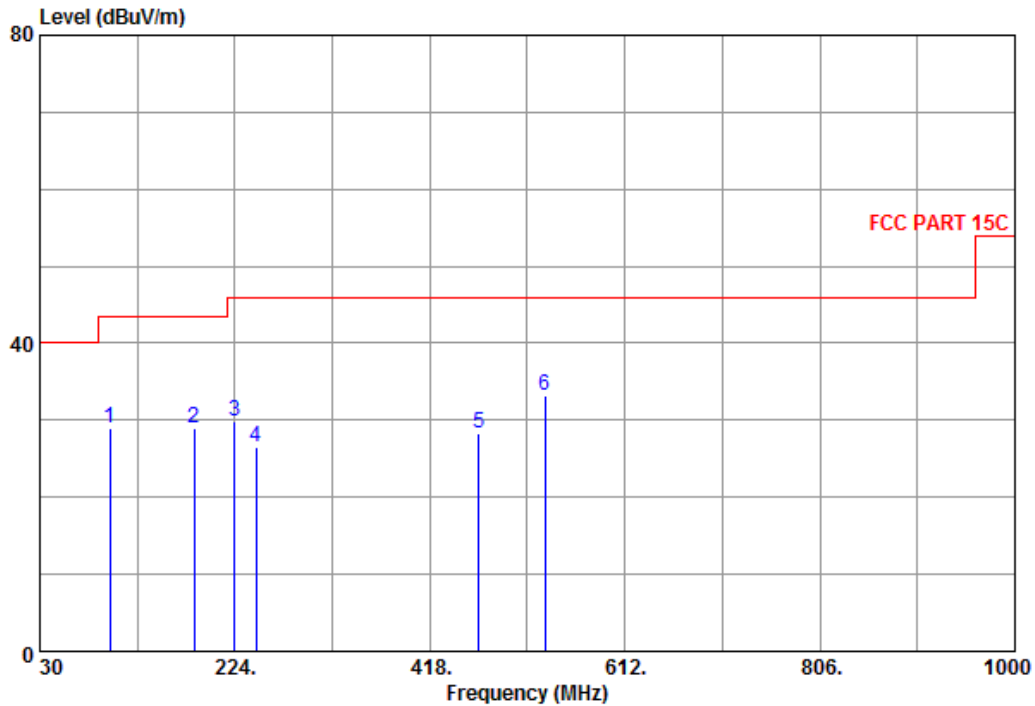
Remark :

1. Measuring frequencies from 30 MHz to 1 GHz.
2. Radiated emissions measured in frequency range from 30 MHz to 1000 MHz were made with an instrument using Q.P. detector mode.
3. Data of measurement within this frequency range shown "----" in the table above means the reading of emissions are attenuated more than 20 dB below the permissible limits or the field strength is too small to be measured.
4. The IF bandwidth of SPA between 30 MHz to 1 GHz was 100 kHz.



## Radiated Emission Test Data (Below 1 GHz)

|              |               |           |             |
|--------------|---------------|-----------|-------------|
| Temperature  | : 26°C        | Humidity  | : 33%       |
| Test Date    | : 09-Oct-2013 | Tested by | : Kidd Liao |
| Polarization | : Vertical    | Channel   | : 78        |
| Test Mode    | : Mode 9      |           |             |



|     | Freq    | Reading | C.F    | Result | Limit  | Margin | A/pos | T/pos | Remark |
|-----|---------|---------|--------|--------|--------|--------|-------|-------|--------|
|     | MHz     | dBuV    | dB     | dBuV/m | dBuV/m | dB     |       |       |        |
| 1   | 99.840  | 51.17   | -22.28 | 28.89  | 43.50  | -14.61 | ---   | ---   |        |
| 2   | 183.260 | 46.41   | -17.38 | 29.03  | 43.50  | -14.47 | ---   | ---   |        |
| 3   | 224.000 | 47.97   | -18.17 | 29.80  | 46.00  | -16.20 | ---   | ---   |        |
| 4   | 245.340 | 45.62   | -19.07 | 26.55  | 46.00  | -19.45 | ---   | ---   |        |
| 5   | 466.500 | 40.97   | -12.76 | 28.21  | 46.00  | -17.79 | ---   | ---   |        |
| 6 @ | 532.460 | 43.89   | -10.60 | 33.29  | 46.00  | -12.71 | ---   | ---   |        |

C.F = Antenna Factor + Cable Loss - Preamp gain  
 Result = Reading + C.F ; Margin = Result - Limit

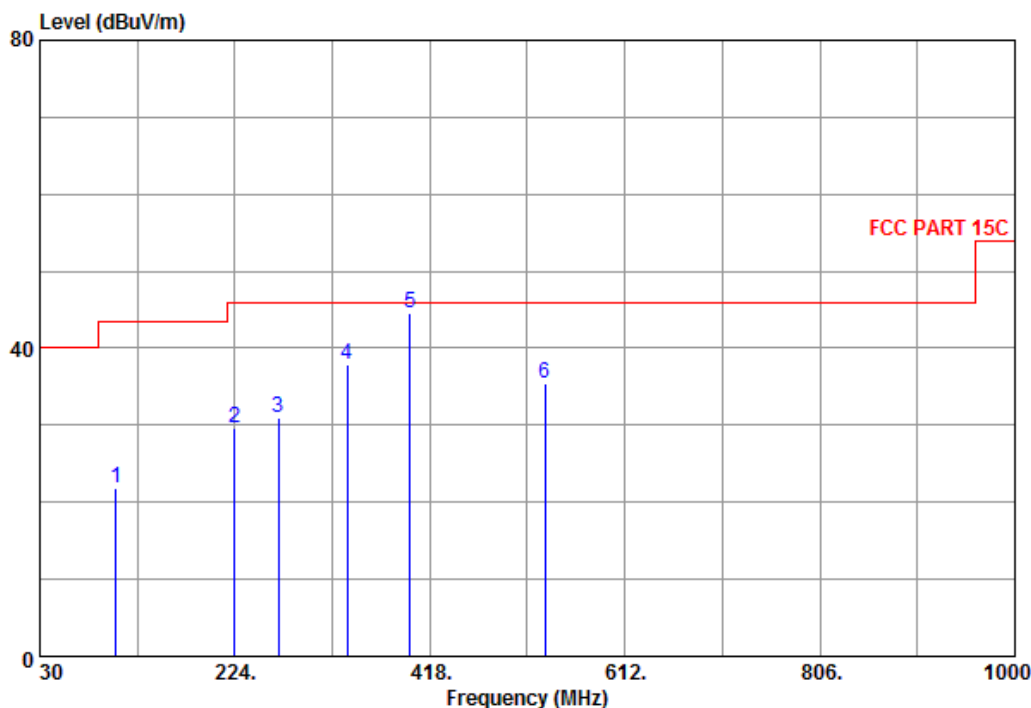
@ : Maximum Data    x : Over Limit

### Remark :

1. Measuring frequencies from 30 MHz to 1 GHz.
2. Radiated emissions measured in frequency range from 30 MHz to 1000 MHz were made with an instrument using Q.P. detector mode.
3. Data of measurement within this frequency range shown "----" in the table above means the reading of emissions are attenuated more than 20 dB below the permissible limits or the field strength is too small to be measured.
4. The IF bandwidth of SPA between 30 MHz to 1 GHz was 100 kHz.

### Radiated Emission Test Data (Below 1 GHz)

|              |               |           |             |
|--------------|---------------|-----------|-------------|
| Temperature  | : 26°C        | Humidity  | : 33%       |
| Test Date    | : 09-Oct-2013 | Tested by | : Kidd Liao |
| Polarization | : Horizontal  | Channel   | : RX        |
| Test Mode    | : Mode 10     |           |             |



|   | Freq    | Reading | C.F    | Result | Limit  | Margin | A/pos | T/pos | Remark |
|---|---------|---------|--------|--------|--------|--------|-------|-------|--------|
|   | MHz     | dBuV    | dB     | dBuV/m | dBuV/m | dB     |       |       |        |
| 1 | 105.660 | 46.36   | -24.47 | 21.89  | 43.50  | -21.61 | ---   | ---   |        |
| 2 | 224.000 | 47.80   | -18.17 | 29.63  | 46.00  | -16.37 | ---   | ---   |        |
| 3 | 267.650 | 49.93   | -18.92 | 31.01  | 46.00  | -14.99 | ---   | ---   |        |
| 4 | 335.550 | 53.15   | -15.25 | 37.90  | 46.00  | -8.10  | ---   | ---   |        |
| 5 | 398.600 | 58.48   | -13.85 | 44.63  | 46.00  | -1.37  | ---   | ---   |        |
| 6 | 532.460 | 46.13   | -10.60 | 35.53  | 46.00  | -10.47 | ---   | ---   |        |

C.F = Antenna Factor + Cable Loss - Preamp gain  
Result = Reading + C.F ; Margin = Result - Limit

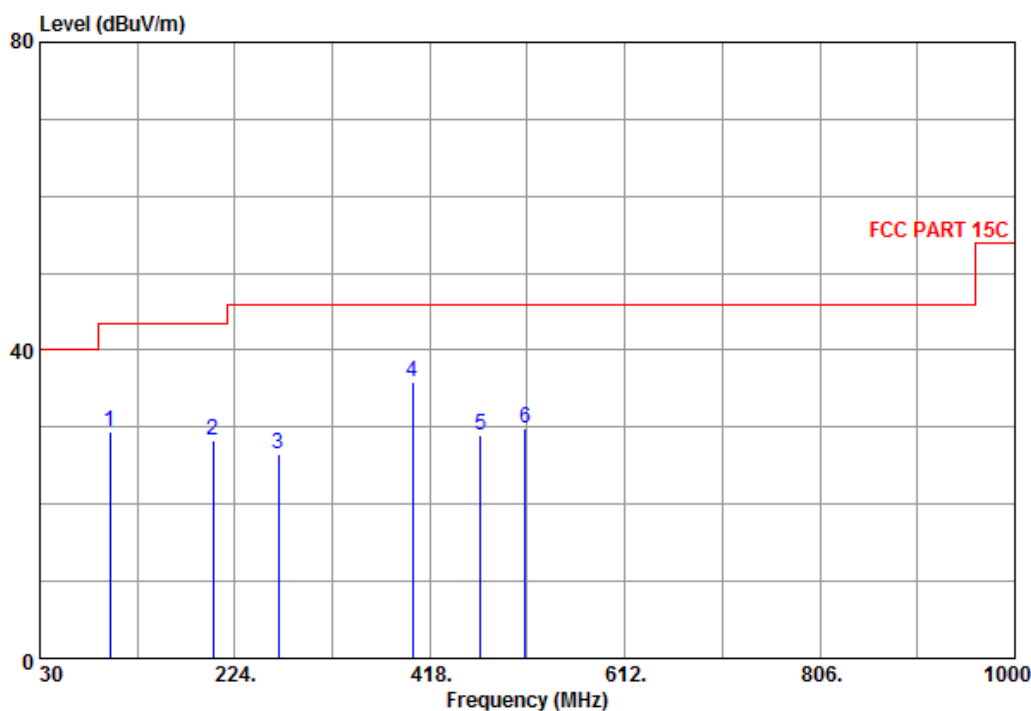
@ :Maximum Data x :Over Limit

Remark :

1. Measuring frequencies from 30 MHz to 1 GHz.
2. Radiated emissions measured in frequency range from 30 MHz to 1000 MHz were made with an instrument using Q.P. detector mode.
3. Data of measurement within this frequency range shown "----" in the table above means the reading of emissions are attenuated more than 20 dB below the permissible limits or the field strength is too small to be measured.
4. The IF bandwidth of SPA between 30 MHz to 1 GHz was 100 kHz.

## Radiated Emission Test Data (Below 1 GHz)

|              |               |           |             |
|--------------|---------------|-----------|-------------|
| Temperature  | : 26°C        | Humidity  | : 33%       |
| Test Date    | : 09-Oct-2013 | Tested by | : Kidd Liao |
| Polarization | : Vertical    | Channel   | : RX        |
| Test Mode    | : Mode 10     |           |             |



|   | Freq      | Reading | C.F    | Result | Limit  | Margin | A/pos | T/pos | Remark |
|---|-----------|---------|--------|--------|--------|--------|-------|-------|--------|
|   | MHz       | dBuV    | dB     | dBuV/m | dBuV/m | dB     |       |       |        |
| 1 | 99.840    | 51.73   | -22.28 | 29.45  | 43.50  | -14.05 | ---   | ---   |        |
| 2 | 202.660   | 45.61   | -17.33 | 28.28  | 43.50  | -15.22 | ---   | ---   |        |
| 3 | 267.650   | 45.54   | -18.92 | 26.62  | 46.00  | -19.38 | ---   | ---   |        |
| 4 | @ 400.540 | 49.76   | -13.97 | 35.79  | 46.00  | -10.21 | ---   | ---   |        |
| 5 | 468.440   | 41.66   | -12.75 | 28.91  | 46.00  | -17.09 | ---   | ---   |        |
| 6 | 513.060   | 40.71   | -10.92 | 29.79  | 46.00  | -16.21 | ---   | ---   |        |

C.F = Antenna Factor + Cable Loss - Preamp gain  
Result = Reading + C.F ; Margin = Result - Limit

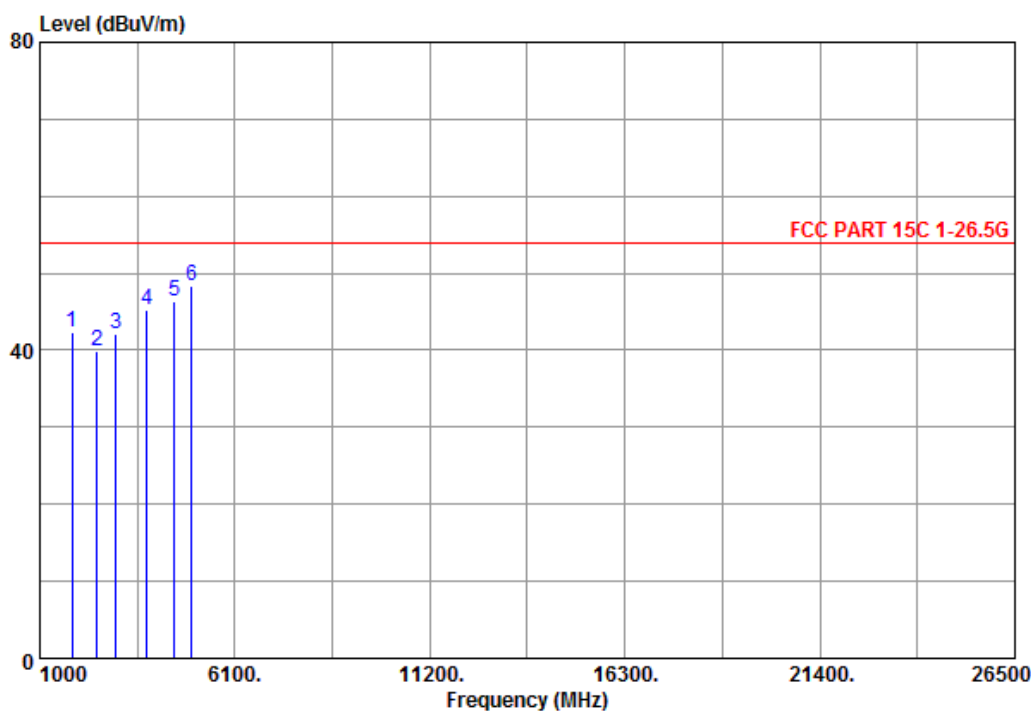
@ : Maximum Data x : Over Limit

Remark :

1. Measuring frequencies from 30 MHz to 1 GHz.
2. Radiated emissions measured in frequency range from 30 MHz to 1000 MHz were made with an instrument using Q.P. detector mode.
3. Data of measurement within this frequency range shown "----" in the table above means the reading of emissions are attenuated more than 20 dB below the permissible limits or the field strength is too small to be measured.
4. The IF bandwidth of SPA between 30 MHz to 1 GHz was 100 kHz.

## Radiated Emission Test Data (Above 1 GHz)

|              |               |           |             |
|--------------|---------------|-----------|-------------|
| Temperature  | : 26°C        | Humidity  | : 33%       |
| Test Date    | : 09-Oct-2013 | Tested by | : Kidd Liao |
| Polarization | : Horizontal  | Channel   | : 00        |
| Test Mode    | : Mode 1      |           |             |



|   | Freq      | Reading | C.F   | Result | Limit  | Margin | A/pos | T/pos | Remark |
|---|-----------|---------|-------|--------|--------|--------|-------|-------|--------|
|   | MHz       | dBuV    | dB    | dBuV/m | dBuV/m | dB     |       |       |        |
| 1 | 1841.500  | 51.71   | -9.47 | 42.24  | 54.00  | -11.76 | ---   | ---   |        |
| 2 | 2504.500  | 47.27   | -7.33 | 39.94  | 54.00  | -14.06 | ---   | ---   |        |
| 3 | 2989.000  | 48.01   | -5.88 | 42.13  | 54.00  | -11.87 | ---   | ---   |        |
| 4 | 3805.000  | 48.70   | -3.52 | 45.18  | 54.00  | -8.82  | ---   | ---   |        |
| 5 | 4519.000  | 47.03   | -0.74 | 46.29  | 54.00  | -7.71  | ---   | ---   |        |
| 6 | @4978.000 | 47.06   | 1.22  | 48.28  | 54.00  | -5.72  | ---   | ---   |        |

C.F = Antenna Factor + Cable Loss - Preamp gain  
Result = Reading + C.F ; Margin = Result - Limit

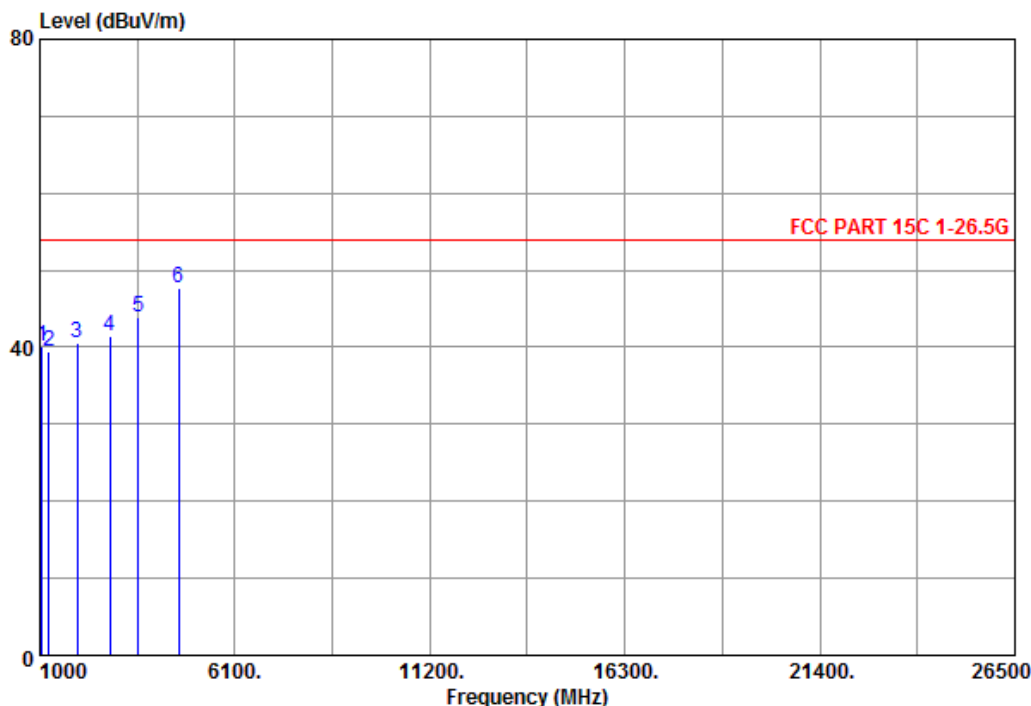
@ :Maximum Data x :Over Limit

Remark :

- Measuring frequencies from 1 GHz to the 10<sup>th</sup> harmonic of highest fundamental frequency.
- Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.
- Radiated emissions measured in frequency above 1000 MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- All readings are Peak values. None of the peak value reading exceeds the A.V. limit. Hence, A.V. reading was not measured.
- Spectrum setting:
  - Peak Setting 1GHz to 10<sup>th</sup> harmonics of fundamental, RBW = VBW = 1MHz, Sweep = AUTO.
  - Average Setting 1GHz to 10<sup>th</sup> harmonics of fundamental,; RBW = 1MHz, VBW = 10Hz, Sweep = AUTO.

## Radiated Emission Test Data (Above 1 GHz)

|              |               |           |             |
|--------------|---------------|-----------|-------------|
| Temperature  | : 26°C        | Humidity  | : 33%       |
| Test Date    | : 09-Oct-2013 | Tested by | : Kidd Liao |
| Polarization | : Vertical    | Channel   | : 00        |
| Test Mode    | : Mode 1      |           |             |



|   | Freq      | Reading | C.F    | Result | Limit  | Margin | A/pos | T/pos | Remark |
|---|-----------|---------|--------|--------|--------|--------|-------|-------|--------|
|   | MHz       | dBuV    | dB     | dBuV/m | dBuV/m | dB     |       |       |        |
| 1 | 1051.000  | 53.11   | -13.10 | 40.01  | 54.00  | -13.99 | ---   | ---   |        |
| 2 | 1229.500  | 51.65   | -12.25 | 39.40  | 54.00  | -14.60 | ---   | ---   |        |
| 3 | 1969.000  | 49.51   | -8.94  | 40.57  | 54.00  | -13.43 | ---   | ---   |        |
| 4 | 2836.000  | 47.88   | -6.34  | 41.54  | 54.00  | -12.46 | ---   | ---   |        |
| 5 | 3575.500  | 48.07   | -4.17  | 43.90  | 54.00  | -10.10 | ---   | ---   |        |
| 6 | @4621.000 | 48.07   | -0.30  | 47.77  | 54.00  | -6.23  | ---   | ---   |        |

C.F = Antenna Factor + Cable Loss - Preamp gain  
 Result = Reading + C.F ; Margin = Result - Limit

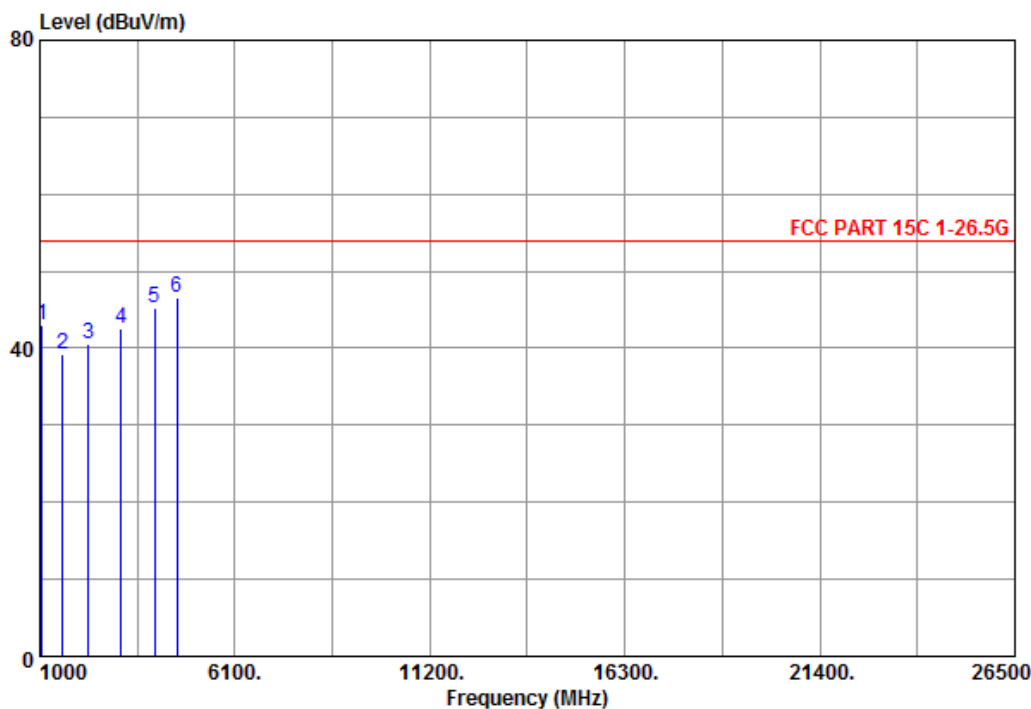
@ :Maximum Data    x :Over Limit

Remark :

- Measuring frequencies from 1 GHz to the 10<sup>th</sup> harmonic of highest fundamental frequency.
- Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.
- Radiated emissions measured in frequency above 1000 MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- All readings are Peak values. None of the peak value reading exceeds the A.V. limit. Hence, A.V. reading was not measured.
- Spectrum setting:
  - Peak Setting 1GHz to 10<sup>th</sup> harmonics of fundamental, RBW = VBW = 1MHz, Sweep = AUTO.
  - Average Setting 1GHz to 10<sup>th</sup> harmonics of fundamental, RBW = 1MHz, VBW = 10Hz, Sweep = AUTO.

## Radiated Emission Test Data (Above 1 GHz)

|              |               |           |             |
|--------------|---------------|-----------|-------------|
| Temperature  | : 26°C        | Humidity  | : 33%       |
| Test Date    | : 09-Oct-2013 | Tested by | : Kidd Liao |
| Polarization | : Horizontal  | Channel   | : 39        |
| Test Mode    | : Mode 2      |           |             |



|   | Freq     | Reading | C.F    | Result | Limit  | Margin | A/pos | T/pos | Remark |
|---|----------|---------|--------|--------|--------|--------|-------|-------|--------|
|   | MHz      | dBuV    | dB     | dBuV/m | dBuV/m | dB     |       |       |        |
| 1 | 1051.000 | 56.05   | -13.10 | 42.95  | 54.00  | -11.05 | ---   | ---   |        |
| 2 | 1586.500 | 49.95   | -10.70 | 39.25  | 54.00  | -14.75 | ---   | ---   |        |
| 3 | 2275.000 | 48.57   | -7.98  | 40.59  | 54.00  | -13.41 | ---   | ---   |        |
| 4 | 3116.500 | 48.03   | -5.54  | 42.49  | 54.00  | -11.51 | ---   | ---   |        |
| 5 | 4009.000 | 48.04   | -2.91  | 45.13  | 54.00  | -8.87  | ---   | ---   |        |
| 6 | 4595.500 | 46.97   | -0.38  | 46.59  | 54.00  | -7.41  | ---   | ---   |        |

C.F = Antenna Factor + Cable Loss - Preamp gain  
Result = Reading + C.F ; Margin = Result - Limit

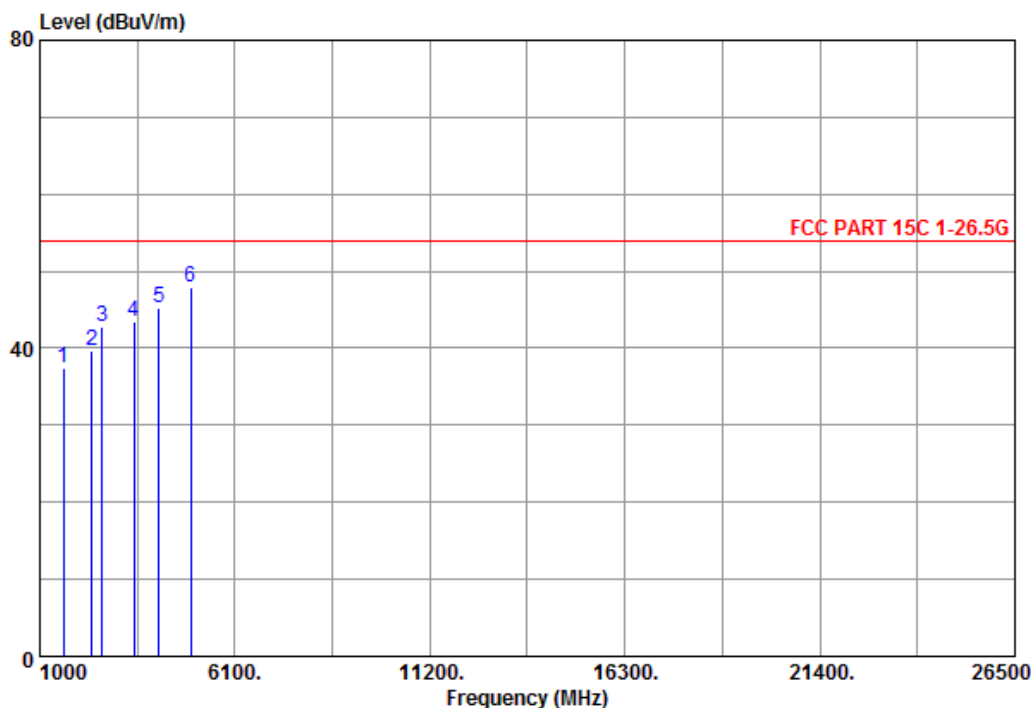
@ :Maximum Data x :Over Limit

Remark :

- Measuring frequencies from 1 GHz to the 10<sup>th</sup> harmonic of highest fundamental frequency.
- Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.
- Radiated emissions measured in frequency above 1000 MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- All readings are Peak values. None of the peak value reading exceeds the A.V. limit. Hence, A.V. reading was not measured.
- Spectrum setting:
  - Peak Setting 1GHz to 10<sup>th</sup> harmonics of fundamental, RBW = VBW = 1MHz, Sweep = AUTO.
  - Average Setting 1GHz to 10<sup>th</sup> harmonics of fundamental,; RBW = 1MHz, VBW = 10Hz, Sweep = AUTO.

## Radiated Emission Test Data (Above 1 GHz)

|              |               |           |             |
|--------------|---------------|-----------|-------------|
| Temperature  | : 26°C        | Humidity  | : 33%       |
| Test Date    | : 09-Oct-2013 | Tested by | : Kidd Liao |
| Polarization | : Vertical    | Channel   | : 39        |
| Test Mode    | : Mode 2      |           |             |



|   | Freq      | Reading | C.F    | Result | Limit  | Margin | A/pos | T/pos | Remark |
|---|-----------|---------|--------|--------|--------|--------|-------|-------|--------|
|   | MHz       | dBuV    | dB     | dBuV/m | dBuV/m | dB     |       |       |        |
| 1 | 1612.000  | 47.92   | -10.55 | 37.37  | 54.00  | -16.63 | ---   | ---   |        |
| 2 | 2351.500  | 47.33   | -7.74  | 39.59  | 54.00  | -14.41 | ---   | ---   |        |
| 3 | 2632.000  | 49.75   | -6.93  | 42.82  | 54.00  | -11.18 | ---   | ---   |        |
| 4 | 3473.500  | 47.86   | -4.46  | 43.40  | 54.00  | -10.60 | ---   | ---   |        |
| 5 | 4111.000  | 47.77   | -2.48  | 45.29  | 54.00  | -8.71  | ---   | ---   |        |
| 6 | @4952.500 | 46.79   | 1.08   | 47.87  | 54.00  | -6.13  | ---   | ---   |        |

C.F = Antenna Factor + Cable Loss - Preamp gain  
Result = Reading + C.F ; Margin = Result - Limit

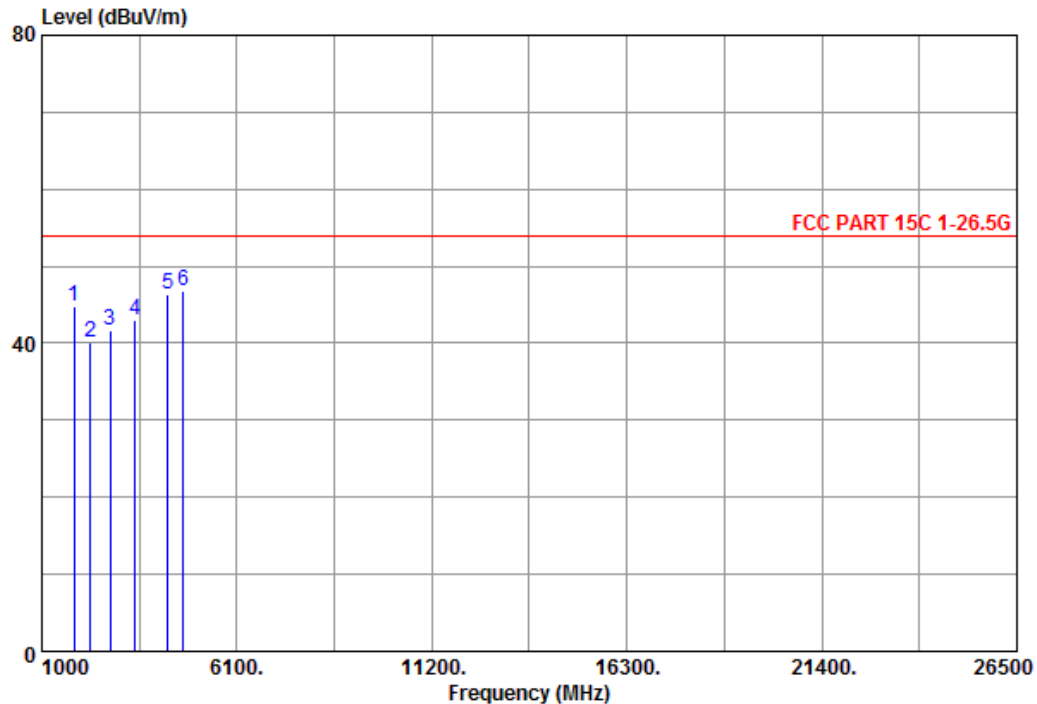
@ : Maximum Data x : Over Limit

Remark :

- Measuring frequencies from 1 GHz to the 10<sup>th</sup> harmonic of highest fundamental frequency.
- Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.
- Radiated emissions measured in frequency above 1000 MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- All readings are Peak values. None of the peak value reading exceeds the A.V. limit. Hence, A.V. reading was not measured.
- Spectrum setting:
  - Peak Setting 1GHz to 10<sup>th</sup> harmonics of fundamental, RBW = VBW = 1MHz, Sweep = AUTO.
  - Average Setting 1GHz to 10<sup>th</sup> harmonics of fundamental, RBW = 1MHz, VBW = 10Hz, Sweep = AUTO.

## Radiated Emission Test Data (Above 1 GHz)

|              |               |           |             |
|--------------|---------------|-----------|-------------|
| Temperature  | : 26°C        | Humidity  | : 33%       |
| Test Date    | : 09-Oct-2013 | Tested by | : Kidd Liao |
| Polarization | : Horizontal  | Channel   | : 78        |
| Test Mode    | : Mode 3      |           |             |



|   | Freq      | Reading | C.F   | Result | Limit  | Margin | A/pos | T/pos | Remark |
|---|-----------|---------|-------|--------|--------|--------|-------|-------|--------|
|   | MHz       | dBuV    | dB    | dBuV/m | dBuV/m | dB     |       |       |        |
| 1 | 1841.500  | 54.34   | -9.47 | 44.87  | 54.00  | -9.13  | ---   | ---   |        |
| 2 | 2275.000  | 48.12   | -7.98 | 40.14  | 54.00  | -13.86 | ---   | ---   |        |
| 3 | 2785.000  | 48.11   | -6.49 | 41.62  | 54.00  | -12.38 | ---   | ---   |        |
| 4 | 3448.000  | 47.58   | -4.56 | 43.02  | 54.00  | -10.98 | ---   | ---   |        |
| 5 | 4289.500  | 48.04   | -1.68 | 46.36  | 54.00  | -7.64  | ---   | ---   |        |
| 6 | @4697.500 | 46.62   | 0.07  | 46.69  | 54.00  | -7.31  | ---   | ---   |        |

C.F = Antenna Factor + Cable Loss - Preamp gain  
 Result = Reading + C.F ; Margin = Result - Limit

@ :Maximum Data x :Over Limit

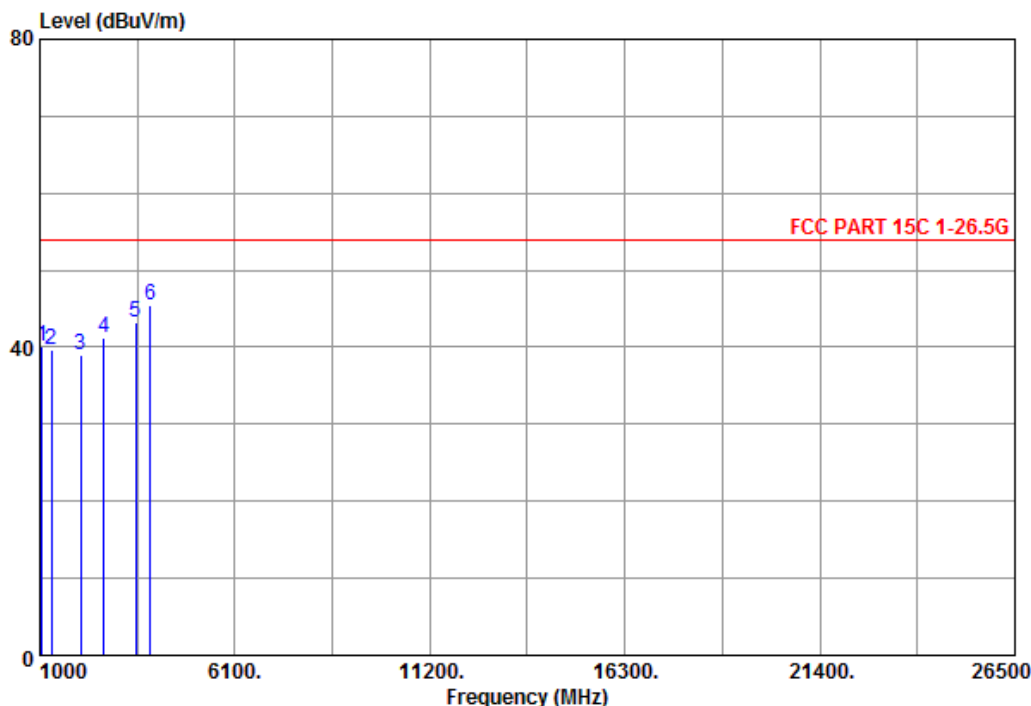
Remark :

- Measuring frequencies from 1 GHz to the 10<sup>th</sup> harmonic of highest fundamental frequency.
- Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.
- Radiated emissions measured in frequency above 1000 MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- All readings are Peak values. None of the peak value reading exceeds the A.V. limit. Hence, A.V. reading was not measured.
- Spectrum setting:
  - Peak Setting 1GHz to 10<sup>th</sup> harmonics of fundamental, RBW = VBW = 1MHz, Sweep = AUTO.
  - Average Setting 1GHz to 10<sup>th</sup> harmonics of fundamental,; RBW = 1MHz, VBW = 10Hz, Sweep = AUTO.



## Radiated Emission Test Data (Above 1 GHz)

|              |               |           |             |
|--------------|---------------|-----------|-------------|
| Temperature  | : 26°C        | Humidity  | : 33%       |
| Test Date    | : 09-Oct-2013 | Tested by | : Kidd Liao |
| Polarization | : Vertical    | Channel   | : 78        |
| Test Mode    | : Mode 3      |           |             |



|   | Freq      | Reading | C.F    | Result | Limit  | Margin | A/pos | T/pos | Remark |
|---|-----------|---------|--------|--------|--------|--------|-------|-------|--------|
|   | MHz       | dBuV    | dB     | dBuV/m | dBuV/m | dB     |       |       |        |
| 1 | 1051.000  | 53.28   | -13.10 | 40.18  | 54.00  | -13.82 | ---   | ---   |        |
| 2 | 1306.000  | 51.71   | -11.93 | 39.78  | 54.00  | -14.22 | ---   | ---   |        |
| 3 | 2071.000  | 47.52   | -8.58  | 38.94  | 54.00  | -15.06 | ---   | ---   |        |
| 4 | 2683.000  | 47.95   | -6.78  | 41.17  | 54.00  | -12.83 | ---   | ---   |        |
| 5 | 3499.000  | 47.60   | -4.40  | 43.20  | 54.00  | -10.80 | ---   | ---   |        |
| 6 | @3881.500 | 48.78   | -3.29  | 45.49  | 54.00  | -8.51  | ---   | ---   |        |

C.F = Antenna Factor + Cable Loss - Preamp gain  
 Result = Reading + C.F ; Margin = Result - Limit

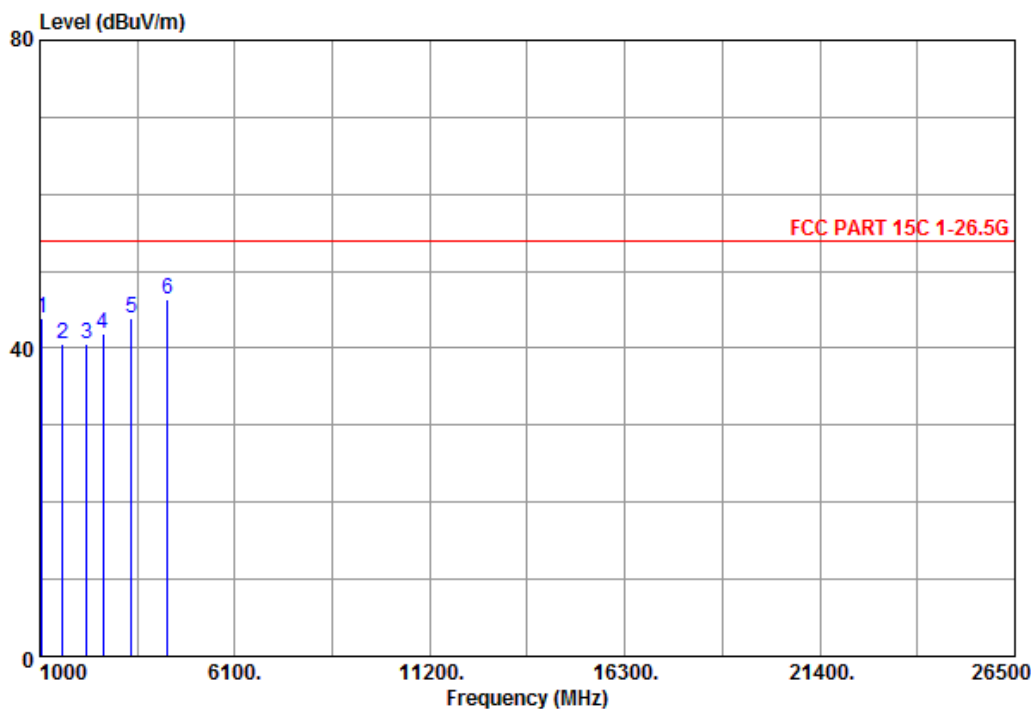
@ :Maximum Data    x :Over Limit

Remark :

- Measuring frequencies from 1 GHz to the 10<sup>th</sup> harmonic of highest fundamental frequency.
- Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.
- Radiated emissions measured in frequency above 1000 MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- All readings are Peak values. None of the peak value reading exceeds the A.V. limit. Hence, A.V. reading was not measured.
- Spectrum setting:
  - Peak Setting 1GHz to 10<sup>th</sup> harmonics of fundamental, RBW = VBW = 1MHz, Sweep = AUTO.
  - Average Setting 1GHz to 10<sup>th</sup> harmonics of fundamental, RBW = 1MHz, VBW = 10Hz, Sweep = AUTO.

## Radiated Emission Test Data (Above 1 GHz)

|              |               |           |             |
|--------------|---------------|-----------|-------------|
| Temperature  | : 26°C        | Humidity  | : 33%       |
| Test Date    | : 09-Oct-2013 | Tested by | : Kidd Liao |
| Polarization | : Horizontal  | Channel   | : 00        |
| Test Mode    | : Mode 4      |           |             |



|   | Freq     | Reading | C.F    | Result | Limit  | Margin | A/pos | T/pos | Remark |
|---|----------|---------|--------|--------|--------|--------|-------|-------|--------|
|   | MHz      | dBuV    | dB     | dBuV/m | dBuV/m | dB     |       |       |        |
| 1 | 1051.000 | 56.94   | -13.10 | 43.84  | 54.00  | -10.16 | ---   | ---   |        |
| 2 | 1586.500 | 51.31   | -10.70 | 40.61  | 54.00  | -13.39 | ---   | ---   |        |
| 3 | 2224.000 | 48.73   | -8.13  | 40.60  | 54.00  | -13.40 | ---   | ---   |        |
| 4 | 2657.500 | 48.71   | -6.83  | 41.88  | 54.00  | -12.12 | ---   | ---   |        |
| 5 | 3397.000 | 48.63   | -4.70  | 43.93  | 54.00  | -10.07 | ---   | ---   |        |
| 6 | 4340.500 | 47.84   | -1.53  | 46.31  | 54.00  | -7.69  | ---   | ---   |        |

C.F = Antenna Factor + Cable Loss - Preamp gain  
Result = Reading + C.F ; Margin = Result - Limit

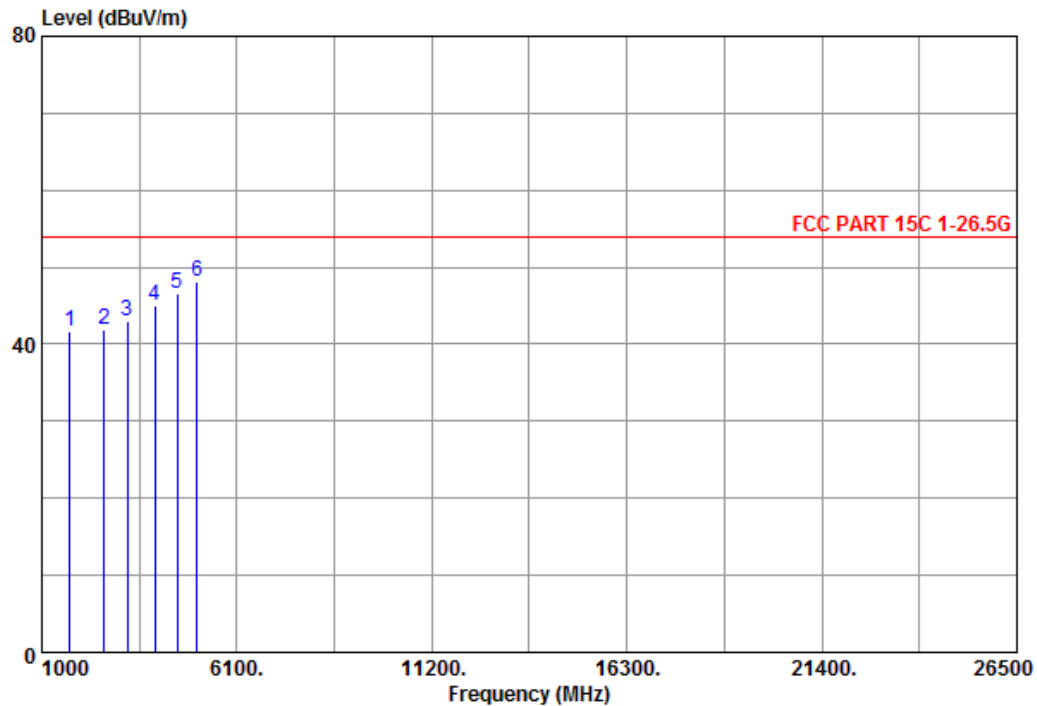
@ :Maximum Data x :Over Limit

Remark :

- Measuring frequencies from 1 GHz to the 10<sup>th</sup> harmonic of highest fundamental frequency.
- Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.
- Radiated emissions measured in frequency above 1000 MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- All readings are Peak values. None of the peak value reading exceeds the A.V. limit. Hence, A.V. reading was not measured.
- Spectrum setting:
  - Peak Setting 1GHz to 10<sup>th</sup> harmonics of fundamental, RBW = VBW = 1MHz, Sweep = AUTO.
  - Average Setting 1GHz to 10<sup>th</sup> harmonics of fundamental,; RBW = 1MHz, VBW = 10Hz, Sweep = AUTO.

### Radiated Emission Test Data (Above 1 GHz)

|              |               |           |             |
|--------------|---------------|-----------|-------------|
| Temperature  | : 26°C        | Humidity  | : 33%       |
| Test Date    | : 09-Oct-2013 | Tested by | : Kidd Liao |
| Polarization | : Vertical    | Channel   | : 00        |
| Test Mode    | : Mode 4      |           |             |



|   | Freq      | Reading | C.F   | Result | Limit  | Margin | A/pos | T/pos | Remark |
|---|-----------|---------|-------|--------|--------|--------|-------|-------|--------|
|   | MHz       | dBuV    | dB    | dBuV/m | dBuV/m | dB     |       |       |        |
| 1 | 1739.500  | 51.66   | -9.94 | 41.72  | 54.00  | -12.28 | ---   | ---   |        |
| 2 | 2632.000  | 48.79   | -6.93 | 41.86  | 54.00  | -12.14 | ---   | ---   |        |
| 3 | 3244.000  | 48.06   | -5.15 | 42.91  | 54.00  | -11.09 | ---   | ---   |        |
| 4 | 3958.000  | 47.99   | -3.08 | 44.91  | 54.00  | -9.09  | ---   | ---   |        |
| 5 | 4544.500  | 47.27   | -0.66 | 46.61  | 54.00  | -7.39  | ---   | ---   |        |
| 6 | @5054.500 | 46.62   | 1.43  | 48.05  | 54.00  | -5.95  | ---   | ---   |        |

C.F = Antenna Factor + Cable Loss - Preamp gain  
Result = Reading + C.F ; Margin = Result - Limit

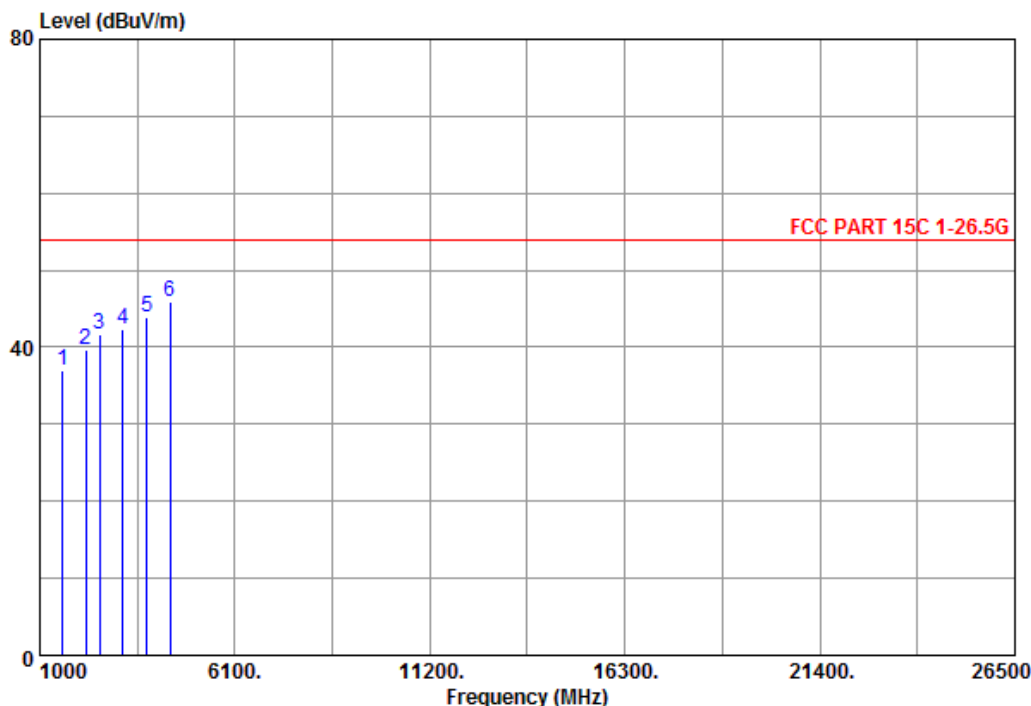
@ :Maximum Data x :Over Limit

Remark :

- Measuring frequencies from 1 GHz to the 10<sup>th</sup> harmonic of highest fundamental frequency.
- Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.
- Radiated emissions measured in frequency above 1000 MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- All readings are Peak values. None of the peak value reading exceeds the A.V. limit. Hence, A.V. reading was not measured.
- Spectrum setting:
  - Peak Setting 1GHz to 10<sup>th</sup> harmonics of fundamental, RBW = VBW = 1MHz, Sweep = AUTO.
  - Average Setting 1GHz to 10<sup>th</sup> harmonics of fundamental, RBW = 1MHz, VBW = 10Hz, Sweep = AUTO.

## Radiated Emission Test Data (Above 1 GHz)

|              |               |           |             |
|--------------|---------------|-----------|-------------|
| Temperature  | : 26°C        | Humidity  | : 33%       |
| Test Date    | : 09-Oct-2013 | Tested by | : Kidd Liao |
| Polarization | : Horizontal  | Channel   | : 39        |
| Test Mode    | : Mode 5      |           |             |



|   | Freq      | Reading | C.F    | Result | Limit  | Margin | A/pos | T/pos | Remark |
|---|-----------|---------|--------|--------|--------|--------|-------|-------|--------|
|   | MHz       | dBuV    | dB     | dBuV/m | dBuV/m | dB     |       |       |        |
| 1 | 1586.500  | 47.63   | -10.70 | 36.93  | 54.00  | -17.07 | ---   | ---   |        |
| 2 | 2198.500  | 47.83   | -8.23  | 39.60  | 54.00  | -14.40 | ---   | ---   |        |
| 3 | 2555.500  | 48.70   | -7.13  | 41.57  | 54.00  | -12.43 | ---   | ---   |        |
| 4 | 3167.500  | 47.62   | -5.35  | 42.27  | 54.00  | -11.73 | ---   | ---   |        |
| 5 | 3805.000  | 47.51   | -3.52  | 43.99  | 54.00  | -10.01 | ---   | ---   |        |
| 6 | @4417.000 | 47.01   | -1.17  | 45.84  | 54.00  | -8.16  | ---   | ---   |        |

C.F = Antenna Factor + Cable Loss - Preamp gain  
 Result = Reading + C.F ; Margin = Result - Limit

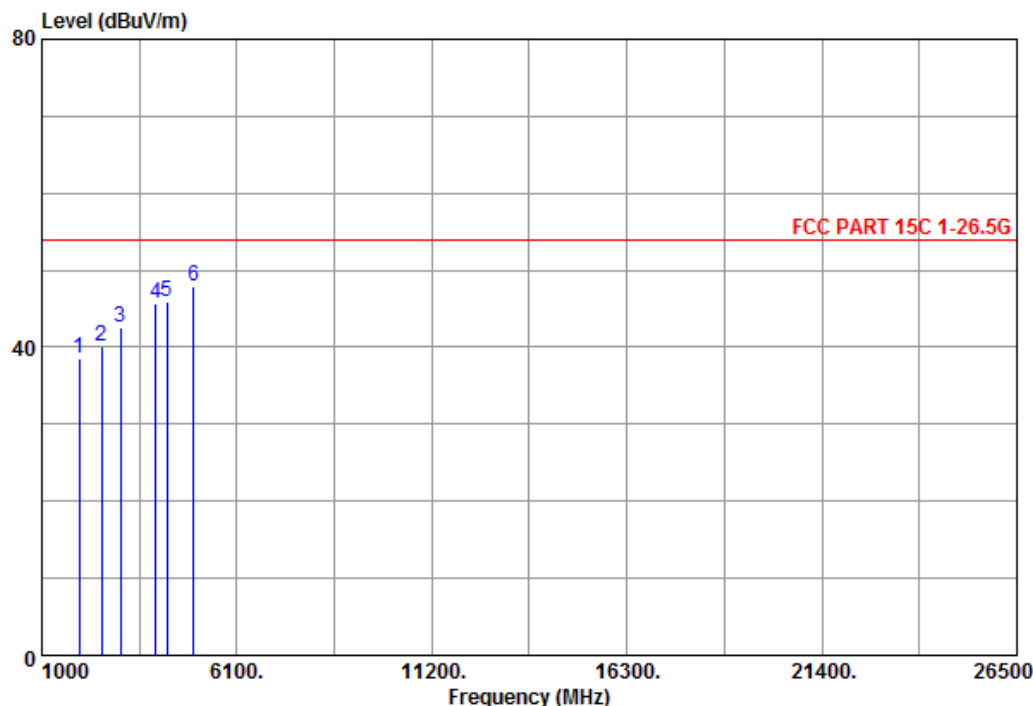
@ :Maximum Data    x :Over Limit

Remark :

- Measuring frequencies from 1 GHz to the 10<sup>th</sup> harmonic of highest fundamental frequency.
- Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.
- Radiated emissions measured in frequency above 1000 MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- All readings are Peak values. None of the peak value reading exceeds the A.V. limit. Hence, A.V. reading was not measured.
- Spectrum setting:
  - Peak Setting 1GHz to 10<sup>th</sup> harmonics of fundamental, RBW = VBW = 1MHz, Sweep = AUTO.
  - Average Setting 1GHz to 10<sup>th</sup> harmonics of fundamental, RBW = 1MHz, VBW = 10Hz, Sweep = AUTO.

## Radiated Emission Test Data (Above 1 GHz)

|              |               |           |             |
|--------------|---------------|-----------|-------------|
| Temperature  | : 26°C        | Humidity  | : 33%       |
| Test Date    | : 09-Oct-2013 | Tested by | : Kidd Liao |
| Polarization | : Vertical    | Channel   | : 38        |
| Test Mode    | : Mode 5      |           |             |



|   | Freq      | Reading | C.F   | Result | Limit  | Margin | A/pos | T/pos | Remark |
|---|-----------|---------|-------|--------|--------|--------|-------|-------|--------|
|   | MHz       | dBuV    | dB    | dBuV/m | dBuV/m | dB     |       |       |        |
| 1 | 1969.000  | 47.59   | -8.94 | 38.65  | 54.00  | -15.35 | ---   | ---   |        |
| 2 | 2555.500  | 47.27   | -7.13 | 40.14  | 54.00  | -13.86 | ---   | ---   |        |
| 3 | 3065.500  | 48.18   | -5.64 | 42.54  | 54.00  | -11.46 | ---   | ---   |        |
| 4 | 3983.500  | 48.78   | -2.99 | 45.79  | 54.00  | -8.21  | ---   | ---   |        |
| 5 | 4264.000  | 47.74   | -1.83 | 45.91  | 54.00  | -8.09  | ---   | ---   |        |
| 6 | @4978.000 | 46.76   | 1.22  | 47.98  | 54.00  | -6.02  | ---   | ---   |        |

C.F = Antenna Factor + Cable Loss - Preamp gain  
Result = Reading + C.F ; Margin = Result - Limit

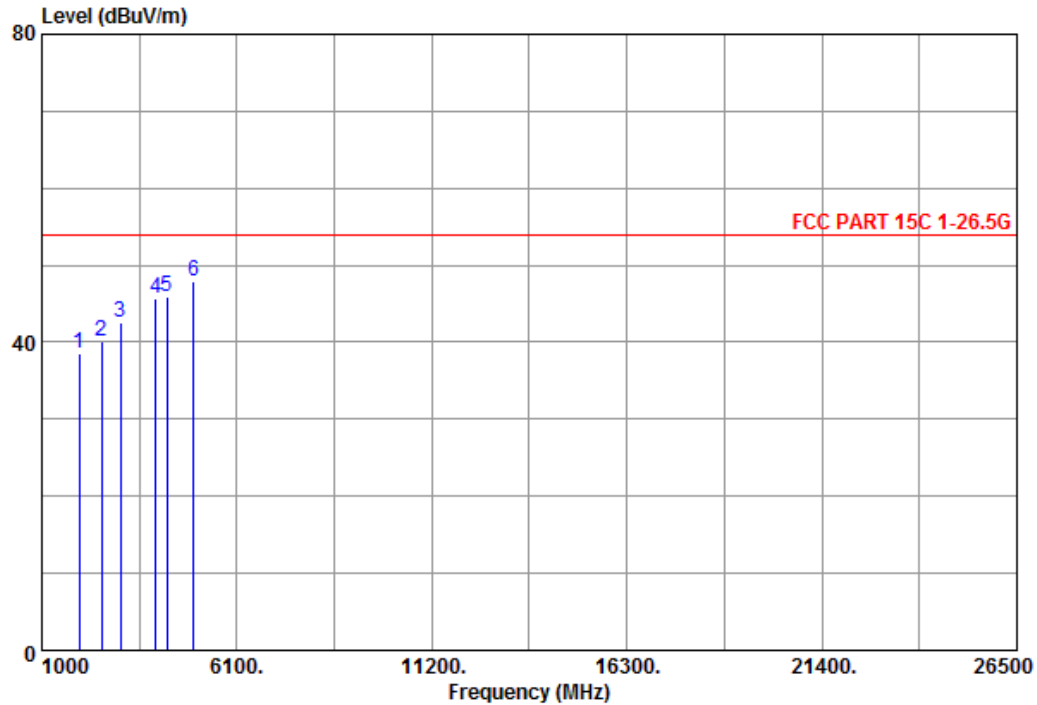
@ :Maximum Data    x :Over Limit

Remark :

- Measuring frequencies from 1 GHz to the 10<sup>th</sup> harmonic of highest fundamental frequency.
- Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.
- Radiated emissions measured in frequency above 1000 MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- All readings are Peak values. None of the peak value reading exceeds the A.V. limit. Hence, A.V. reading was not measured.
- Spectrum setting:
  - Peak Setting 1GHz to 10<sup>th</sup> harmonics of fundamental, RBW = VBW = 1MHz, Sweep = AUTO.
  - Average Setting 1GHz to 10<sup>th</sup> harmonics of fundamental, RBW = 1MHz, VBW = 10Hz, Sweep = AUTO.

## Radiated Emission Test Data (Above 1 GHz)

|              |               |           |             |
|--------------|---------------|-----------|-------------|
| Temperature  | : 26°C        | Humidity  | : 33%       |
| Test Date    | : 09-Oct-2013 | Tested by | : Kidd Liao |
| Polarization | : Horizontal  | Channel   | : 38        |
| Test Mode    | : Mode 5      |           |             |



|   | Freq      | Reading | C.F   | Result | Limit  | Margin | A/pos | T/pos | Remark |
|---|-----------|---------|-------|--------|--------|--------|-------|-------|--------|
|   | MHz       | dBuV    | dB    | dBuV/m | dBuV/m | dB     |       |       |        |
| 1 | 1969.000  | 47.59   | -8.94 | 38.65  | 54.00  | -15.35 | ---   | ---   |        |
| 2 | 2555.500  | 47.27   | -7.13 | 40.14  | 54.00  | -13.86 | ---   | ---   |        |
| 3 | 3065.500  | 48.18   | -5.64 | 42.54  | 54.00  | -11.46 | ---   | ---   |        |
| 4 | 3983.500  | 48.78   | -2.99 | 45.79  | 54.00  | -8.21  | ---   | ---   |        |
| 5 | 4264.000  | 47.74   | -1.83 | 45.91  | 54.00  | -8.09  | ---   | ---   |        |
| 6 | @4978.000 | 46.76   | 1.22  | 47.98  | 54.00  | -6.02  | ---   | ---   |        |

C.F = Antenna Factor + Cable Loss - Preamp gain  
 Result = Reading + C.F ; Margin = Result - Limit

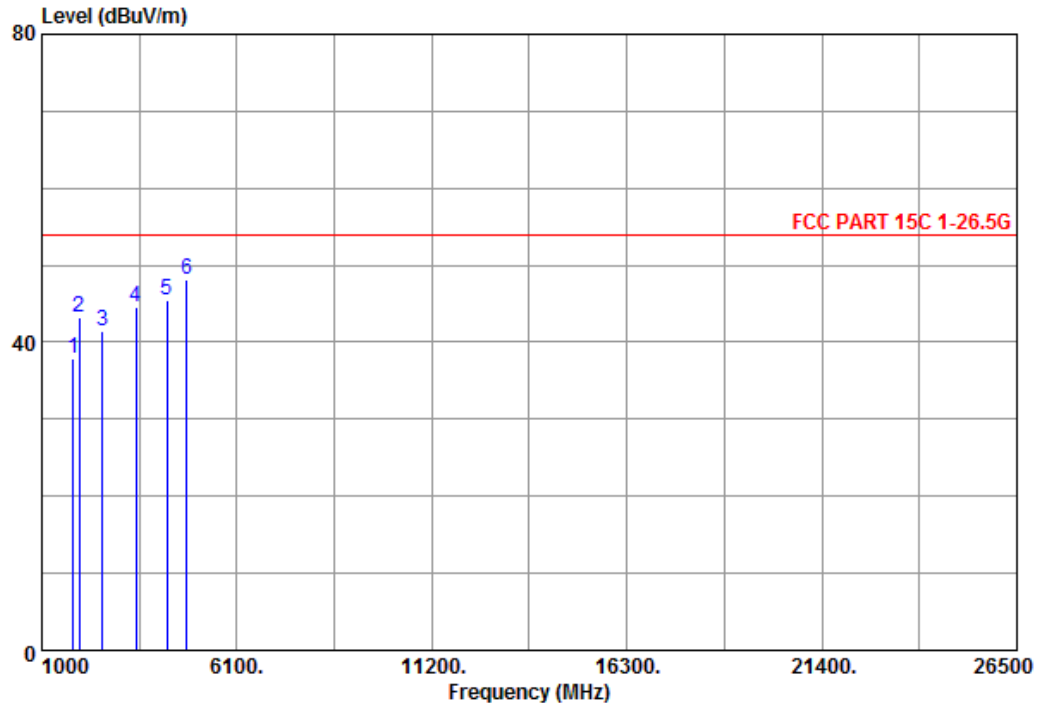
@ :Maximum Data    x :Over Limit

Remark :

- Measuring frequencies from 1 GHz to the 10<sup>th</sup> harmonic of highest fundamental frequency.
- Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.
- Radiated emissions measured in frequency above 1000 MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- All readings are Peak values. None of the peak value reading exceeds the A.V. limit. Hence, A.V. reading was not measured.
- Spectrum setting:
  - Peak Setting 1GHz to 10<sup>th</sup> harmonics of fundamental, RBW = VBW = 1MHz, Sweep = AUTO.
  - Average Setting 1GHz to 10<sup>th</sup> harmonics of fundamental, RBW = 1MHz, VBW = 10Hz, Sweep = AUTO.

**Radiated Emission Test Data (Above 1 GHz)**

|              |               |           |             |
|--------------|---------------|-----------|-------------|
| Temperature  | : 26°C        | Humidity  | : 33%       |
| Test Date    | : 09-Oct-2013 | Tested by | : Kidd Liao |
| Polarization | : Horizontal  | Channel   | : 79        |
| Test Mode    | : Mode 6      |           |             |



|   | Freq      | Reading | C.F   | Result | Limit  | Margin | A/pos | T/pos | Remark |
|---|-----------|---------|-------|--------|--------|--------|-------|-------|--------|
|   | MHz       | dBuV    | dB    | dBuV/m | dBuV/m | dB     |       |       |        |
| 1 | 1816.000  | 47.55   | -9.63 | 37.92  | 54.00  | -16.08 | ---   | ---   |        |
| 2 | 1969.000  | 52.11   | -8.94 | 43.17  | 54.00  | -10.83 | ---   | ---   |        |
| 3 | 2581.000  | 48.55   | -7.09 | 41.46  | 54.00  | -12.54 | ---   | ---   |        |
| 4 | 3473.500  | 48.95   | -4.46 | 44.49  | 54.00  | -9.51  | ---   | ---   |        |
| 5 | 4264.000  | 47.33   | -1.83 | 45.50  | 54.00  | -8.50  | ---   | ---   |        |
| 6 | @4799.500 | 47.55   | 0.49  | 48.04  | 54.00  | -5.96  | ---   | ---   |        |

C.F = Antenna Factor + Cable Loss - Preamp gain  
 Result = Reading + C.F ; Margin = Result - Limit

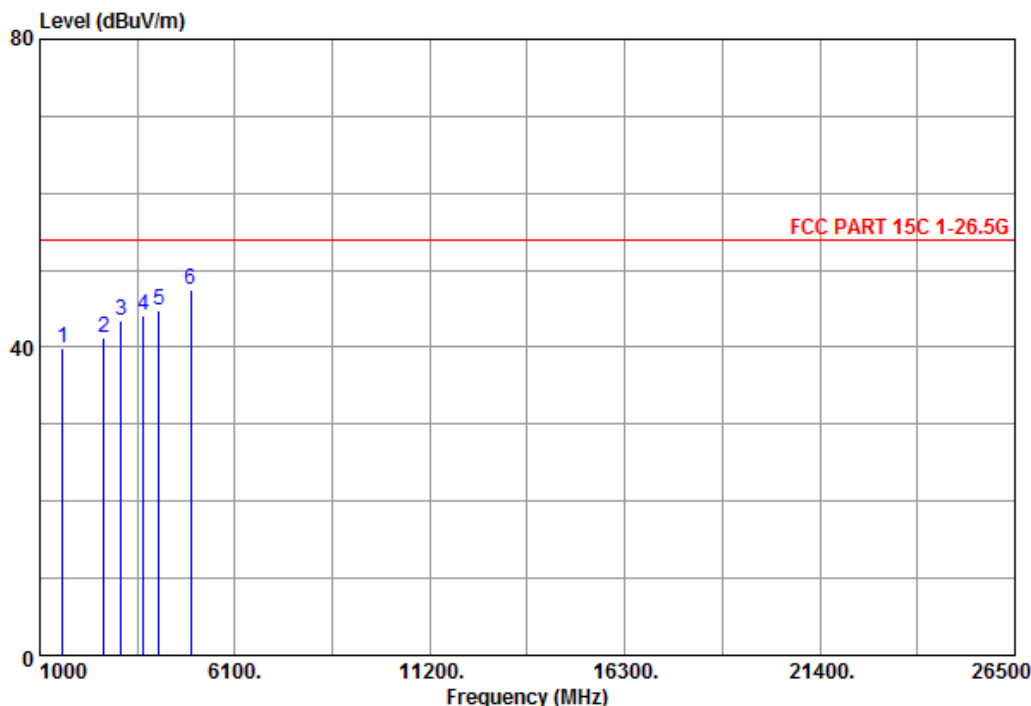
@ : Maximum Data    x : Over Limit

Remark :

- Measuring frequencies from 1 GHz to the 10<sup>th</sup> harmonic of highest fundamental frequency.
- Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.
- Radiated emissions measured in frequency above 1000 MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- All readings are Peak values. None of the peak value reading exceeds the A.V. limit. Hence, A.V. reading was not measured.
- Spectrum setting:
  - Peak Setting 1GHz to 10<sup>th</sup> harmonics of fundamental, RBW = VBW = 1MHz, Sweep = AUTO.
  - Average Setting 1GHz to 10<sup>th</sup> harmonics of fundamental, RBW = 1MHz, VBW = 10Hz, Sweep = AUTO.

## Radiated Emission Test Data (Above 1 GHz)

|              |               |           |             |
|--------------|---------------|-----------|-------------|
| Temperature  | : 26°C        | Humidity  | : 33%       |
| Test Date    | : 09-Oct-2013 | Tested by | : Kidd Liao |
| Polarization | : Vertical    | Channel   | : 79        |
| Test Mode    | : Mode 6      |           |             |



|   | Freq      | Reading | C.F    | Result | Limit  | Margin | A/pos | T/pos | Remark |
|---|-----------|---------|--------|--------|--------|--------|-------|-------|--------|
|   | MHz       | dBuV    | dB     | dBuV/m | dBuV/m | dB     |       |       |        |
| 1 | 1586.500  | 50.69   | -10.70 | 39.99  | 54.00  | -14.01 | ---   | ---   |        |
| 2 | 2683.000  | 47.90   | -6.78  | 41.12  | 54.00  | -12.88 | ---   | ---   |        |
| 3 | 3116.500  | 49.05   | -5.54  | 43.51  | 54.00  | -10.49 | ---   | ---   |        |
| 4 | 3703.000  | 47.89   | -3.82  | 44.07  | 54.00  | -9.93  | ---   | ---   |        |
| 5 | 4111.000  | 47.28   | -2.48  | 44.80  | 54.00  | -9.20  | ---   | ---   |        |
| 6 | @4952.500 | 46.42   | 1.08   | 47.50  | 54.00  | -6.50  | ---   | ---   |        |

C.F = Antenna Factor + Cable Loss - Preamp gain  
 Result = Reading + C.F ; Margin = Result - Limit

@ :Maximum Data    x :Over Limit

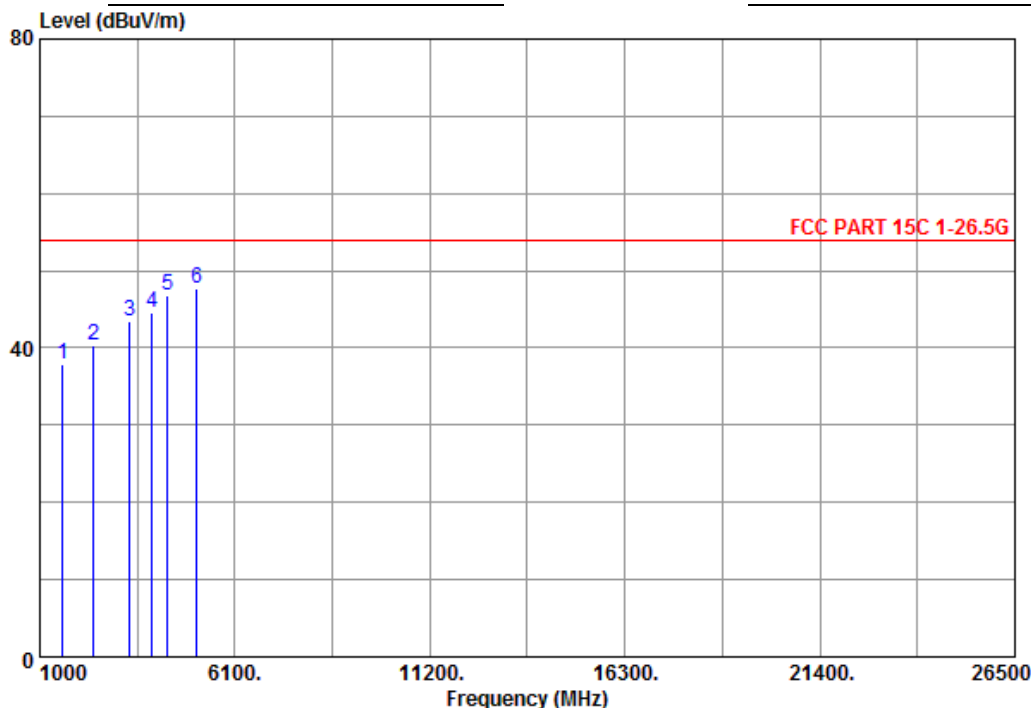
Remark :

- Measuring frequencies from 1 GHz to the 10<sup>th</sup> harmonic of highest fundamental frequency.
- Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.
- Radiated emissions measured in frequency above 1000 MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- All readings are Peak values. None of the peak value reading exceeds the A.V. limit. Hence, A.V. reading was not measured.
- Spectrum setting:
  - Peak Setting 1GHz to 10<sup>th</sup> harmonics of fundamental, RBW = VBW = 1MHz, Sweep = AUTO.
  - Average Setting 1GHz to 10<sup>th</sup> harmonics of fundamental, RBW = 1MHz, VBW = 10Hz, Sweep = AUTO.



## Radiated Emission Test Data (Above 1 GHz)

|              |               |           |             |
|--------------|---------------|-----------|-------------|
| Temperature  | : 26°C        | Humidity  | : 33%       |
| Test Date    | : 09-Oct-2013 | Tested by | : Kidd Liao |
| Polarization | : Horizontal  | Channel   | : 00        |
| Test Mode    | : Mode 7      |           |             |



|   | Freq      | Reading | C.F    | Result | Limit  | Margin | A/pos | T/pos | Remark |
|---|-----------|---------|--------|--------|--------|--------|-------|-------|--------|
|   | MHz       | dBuV    | dB     | dBuV/m | dBuV/m | dB     |       |       |        |
| 1 | 1586.500  | 48.61   | -10.70 | 37.91  | 54.00  | -16.09 | ---   | ---   |        |
| 2 | 2402.500  | 48.02   | -7.63  | 40.39  | 54.00  | -13.61 | ---   | ---   |        |
| 3 | 3346.000  | 48.38   | -4.85  | 43.53  | 54.00  | -10.47 | ---   | ---   |        |
| 4 | 3932.500  | 47.75   | -3.19  | 44.56  | 54.00  | -9.44  | ---   | ---   |        |
| 5 | 4340.500  | 48.23   | -1.53  | 46.70  | 54.00  | -7.30  | ---   | ---   |        |
| 6 | @5105.500 | 46.16   | 1.61   | 47.77  | 54.00  | -6.23  | ---   | ---   |        |

C.F = Antenna Factor + Cable Loss - Preamp gain  
Result = Reading + C.F ; Margin = Result - Limit

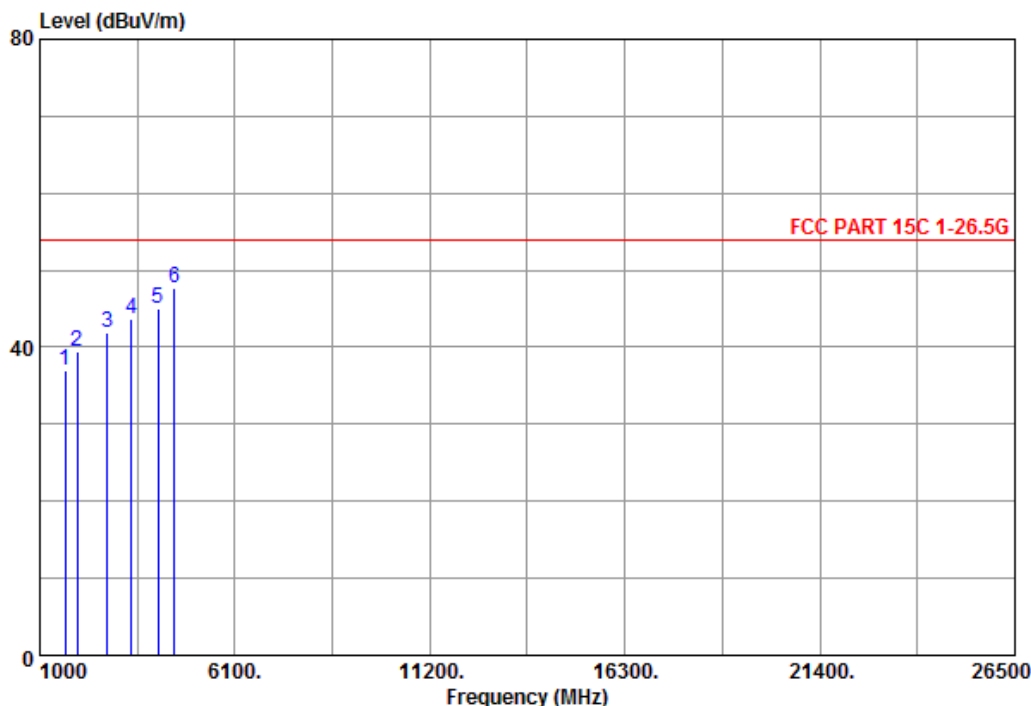
@ : Maximum Data x : Over Limit

Remark :

- Measuring frequencies from 1 GHz to the 10<sup>th</sup> harmonic of highest fundamental frequency.
- Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.
- Radiated emissions measured in frequency above 1000 MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- All readings are Peak values. None of the peak value reading exceeds the A.V. limit. Hence, A.V. reading was not measured.
- Spectrum setting:
  - Peak Setting 1GHz to 10<sup>th</sup> harmonics of fundamental, RBW = VBW = 1MHz, Sweep = AUTO.
  - Average Setting 1GHz to 10<sup>th</sup> harmonics of fundamental, RBW = 1MHz, VBW = 10Hz, Sweep = AUTO.

## Radiated Emission Test Data (Above 1 GHz)

|              |               |           |             |
|--------------|---------------|-----------|-------------|
| Temperature  | : 26°C        | Humidity  | : 33%       |
| Test Date    | : 09-Oct-2013 | Tested by | : Kidd Liao |
| Polarization | : Vertical    | Channel   | : 00        |
| Test Mode    | : Mode 7      |           |             |



|   | Freq      | Reading | C.F    | Result | Limit  | Margin | A/pos | T/pos | Remark |
|---|-----------|---------|--------|--------|--------|--------|-------|-------|--------|
|   | MHz       | dBuV    | dB     | dBuV/m | dBuV/m | dB     |       |       |        |
| 1 | 1663.000  | 47.37   | -10.32 | 37.05  | 54.00  | -16.95 | ---   | ---   |        |
| 2 | 1969.000  | 48.47   | -8.94  | 39.53  | 54.00  | -14.47 | ---   | ---   |        |
| 3 | 2759.500  | 48.36   | -6.54  | 41.82  | 54.00  | -12.18 | ---   | ---   |        |
| 4 | 3397.000  | 48.47   | -4.70  | 43.77  | 54.00  | -10.23 | ---   | ---   |        |
| 5 | 4085.500  | 47.50   | -2.55  | 44.95  | 54.00  | -9.05  | ---   | ---   |        |
| 6 | @4519.000 | 48.42   | -0.74  | 47.68  | 54.00  | -6.32  | ---   | ---   |        |

C.F = Antenna Factor + Cable Loss - Preamp gain  
Result = Reading + C.F ; Margin = Result - Limit

@ :Maximum Data    x :Over Limit

Remark :

- Measuring frequencies from 1 GHz to the 10<sup>th</sup> harmonic of highest fundamental frequency.
- Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.
- Radiated emissions measured in frequency above 1000 MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- All readings are Peak values. None of the peak value reading exceeds the A.V. limit. Hence, A.V. reading was not measured.
- Spectrum setting:
  - Peak Setting 1GHz to 10<sup>th</sup> harmonics of fundamental, RBW = VBW = 1MHz, Sweep = AUTO.
  - Average Setting 1GHz to 10<sup>th</sup> harmonics of fundamental, RBW = 1MHz, VBW = 10Hz, Sweep = AUTO.