



# FCC TEST REPORT

according to

## FCC Part 15, Subpart C (15.249) / ANSI C63.4: 2009

|            |                                                                         |
|------------|-------------------------------------------------------------------------|
| Applicant  | : DXG Technology Corp.                                                  |
| Address    | : 15Fl., No. 4, Sec. 3, Ming-Chuan East Road,<br>Taipei, Taiwan, R.O.C. |
| Equipment  | : HD Action Camcorder                                                   |
| Model No.  | : DVS5M9                                                                |
| Trade Name | : DXG                                                                   |
| FCC ID     | : RD2DS5M9001                                                           |

- The test result refers exclusively to the test presented test model / sample.,
- Without written approval of **Cerpass Technology Corp.** the test report shall not be reproduced except in full.

Laboratory Accreditation





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## History of this test report

■ ORIGINAL.

☐ Additional attachment as following record:

[illegible]



## CERTIFICATE OF COMPLIANCE

according to

### FCC Part 15, Subpart C (15.249) / ANSI C63.4: 2009

|           |                                                                         |
|-----------|-------------------------------------------------------------------------|
| Applicant | : DXG Technology Corp.                                                  |
| Address   | : 15Fl., No. 4, Sec. 3, Ming-Chuan East Road,<br>Taipei, Taiwan, R.O.C. |
| Equipment | : HD Action Camcorder                                                   |
| Model No. | : DVS5M9                                                                |
| FCC ID    | : RD2DS5M9001                                                           |

#### I HEREBY CERTIFY THAT :

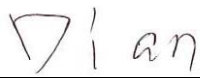
The measurements shown in this test report were made in accordance with the procedures given in **ANSI C63.4**. The equipment was **passed** the test performed according to **FCC Part 15, Subpart C (15.249) / ANSI C63.4: 2009**.

The sample was received on Oct. 02, 2014 and the testing was carried out on Oct. 24, 2014 at **Cerpass Technology Corp.**

Approved by:

Tested by:

  
Hill Chen  
EMC/RF B.U. Assistant Manager

  
Aiden Lu  
Engineer



## 1. Report of Measurements and Examinations

### 1.1. List of Measurements and Examinations

| FCC Rule         | Test Type          | Result | Remark                                                   |
|------------------|--------------------|--------|----------------------------------------------------------|
| 15.207           | Conducted Emission | Pass   | Minimum Passing margin is (AVG)<br>-23.96dB at 0.690 MHz |
| 15.209<br>15.249 | Radiated Emission  | Pass   | Minimum Passing margin is<br>-4.87dB at 792.4199 MHz     |

Note: the information of measurement uncertainty is available upon the customer's request.

## 2. Test Configuration of Equipment under Test

### 2.1. General Description of EUT

|                     |                                                                     |
|---------------------|---------------------------------------------------------------------|
| EUT                 | HD Action Camcorder                                                 |
| Model No.           | DVS5M9                                                              |
| Power Supply        | 5Vdc from adapter or host equipment<br>3.7Vdc from battery          |
| Modulation Type     | GFSK                                                                |
| Transfer Rate       | 250kbps, 1Mbps, 2Mbps                                               |
| Operating Frequency | 2403 ~ 2479MHz                                                      |
| Number of Channel   | 77                                                                  |
| Antenna Type        | Helical Antenna: 0.5dBi                                             |
| Antenna Connector   | NGFF                                                                |
| Data Cable          | 1m shielded USB cable with core<br>1m shielded HDMI cable with core |
| I/O Ports           | Refer to user's manual                                              |
| Accessory Device    | Adapter, Battery                                                    |

Note:

1. The EUT provides one completed transmitter and one receiver.

|                 |             |
|-----------------|-------------|
| Modulation Mode | TX Function |
| 802.11b         | 1TX         |
| 802.11g         | 1TX         |
| 802.11n HT20    | 1TX         |
| 802.11n HT40    | 1TX         |



2. The EUT consumes power from the following adapter and battery.

|              |                         |
|--------------|-------------------------|
| Adapter      |                         |
| Brand        | AMIGO                   |
| Model        | AMS47-0501000FU         |
| Input Power  | 100-240V ~ 50/60Hz 0.2A |
| Output Power | 5Vdc, 1.0A              |

|              |                                       |
|--------------|---------------------------------------|
| Battery      |                                       |
| Brand        | FUJI ELECTRONICS (SHENZHEN) CO., LTD. |
| Model        | FJ-SLB-10A                            |
| Power Rating | 3.7V, 1130mAh, 4.18Wh                 |

3. The EUT uses the following accessory.

|       |       |        |
|-------|-------|--------|
| Item  | Brand | Model  |
| Watch | DXG   | RCWD01 |
| Watch | DXG   | RCW5K8 |

4. The EUT's highest operating frequency is 2.4GHz.

## 2.2. Feature of Equipment under Test

|                     |                                                                                                                                                                                       |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| OLED Screen Display | 0.68"                                                                                                                                                                                 |
| Storage (Memory)    | Micro SD, up to 32GB SDHC Class 6                                                                                                                                                     |
| Image Quality       | Optics: Ultra-sharp F/ no=2.4, f=2.4mm<br>Focus range: 0.4m ~ infinity<br>Field of view: Wide                                                                                         |
| Video               | 1080p (16:9): 30 fps<br>960p (4:3): 30 fps<br>720p (16:9): 60, 30 fps<br>WVGA (16:9): 60, 30 fps<br>VGA: 90 fps<br>Time lapse: 3, 5, 10, 30, 60 seconds<br>Video format: H. 264 (AVI) |
| Still Image         | Resolution: 16MP, 5MP, 3MP, 2MP<br>Burst: 3, 5, 10<br>Self-timer: 2, 5, 10 seconds<br>Interval shooting: 3, 5, 10, 30, 60 seconds<br>Photo format: JPEG (exif 2.2)                    |
| White Balance       | Auto                                                                                                                                                                                  |
| Looping Video       | Yes                                                                                                                                                                                   |
| Average Record Time | Video (1080p30): about 90 minutes,<br>Photo (16MP): about 250 photos                                                                                                                  |
| Auto Power Off      | 1, 3, 5, 10, 30, 60 minutes                                                                                                                                                           |
| Inputs/Outputs      | Micro USB, Mini HDMI                                                                                                                                                                  |
| Battery             | 1130mAh rechargeable Li-ion                                                                                                                                                           |
| Dimensions          | 39.0 (H) x 54.3 (W) x 21 (D) mm (without lens)                                                                                                                                        |
| Weight              | Approx. 46±3g (without waterproof case)                                                                                                                                               |



### 2.3. Carrier Frequency of Channels

| Channel   | Frequency(MHz) | Channel    | Frequency(MHz) |
|-----------|----------------|------------|----------------|
| 1         | 2403           | 40         | 2442           |
| 2         | 2404           | 41         | 2443           |
| <b>*3</b> | <b>2405</b>    | 42         | 2444           |
| 4         | 2406           | <b>*43</b> | <b>2445</b>    |
| 5         | 2407           | 44         | 2446           |
| 6         | 2408           | 45         | 2447           |
| 7         | 2409           | 46         | 2448           |
| 8         | 2410           | 47         | 2449           |
| 9         | 2411           | 48         | 2450           |
| 10        | 2412           | 49         | 2451           |
| 11        | 2413           | 50         | 2452           |
| 12        | 2414           | 51         | 2453           |
| 13        | 2415           | 52         | 2454           |
| 14        | 2416           | 53         | 2455           |
| 15        | 2417           | 54         | 2456           |
| 16        | 2418           | 55         | 2457           |
| 17        | 2419           | 56         | 2458           |
| 18        | 2420           | 57         | 2459           |
| 19        | 2421           | 58         | 2460           |
| 20        | 2422           | 59         | 2461           |
| 21        | 2423           | 60         | 2462           |
| 22        | 2424           | 61         | 2463           |
| 23        | 2425           | 62         | 2464           |
| 24        | 2426           | 63         | 2465           |
| 25        | 2427           | 64         | 2466           |
| 26        | 2428           | 65         | 2467           |
| 27        | 2429           | 66         | 2468           |
| 28        | 2430           | 67         | 2469           |
| 29        | 2431           | 68         | 2470           |
| 30        | 2432           | 69         | 2471           |
| 31        | 2433           | 70         | 2472           |
| 32        | 2434           | 71         | 2473           |
| 33        | 2435           | 72         | 2474           |
| 34        | 2436           | 73         | 2475           |
| 35        | 2437           | 74         | 2476           |
| 36        | 2438           | 75         | 2477           |
| 37        | 2439           | 76         | 2478           |
| 38        | 2440           | <b>*77</b> | <b>2479</b>    |
| 39        | 2441           |            |                |

Note: Channels remarked “\*” are selected to perform test.



## 2.4. Test Mode and Test Software

- a. During testing, the interface cables and equipment positions were varied according to ANSI C63.4.
- b. The complete test system included EUT for RF test.
- c. An executive program, "Hyper Terminal" under WIN XP was executed to transmit and receive data via WLAN.
- d. The following test mode were performed for conduction and radiation test:

<Conduction>

Test Mode 1. Charge, Power by Adapter

- GFSK CH03 (Transmitting / Receive)

<Radiation: Fundamental Emission>

Test Mode 1. REC., Power by DC 3.7V

- GFSK CH03, CH43, CH77 (Transmitting / Receive)

<Radiation: 30MHz ~ 1GHz>

Test Mode 1. Charge, Power by Adapter

Test Mode 2. REC., Power by DC 3.7V

- GFSK CH03 (Transmitting / Receive)

<Radiation: 1GHz ~ 13GHz>

Test Mode 1. REC., Power by DC 3.7V

- GFSK CH03, CH43, CH77 (Transmitting / Receive)

<Radiation: Band Edges>

Test Mode 1. REC., Power by DC 3.7V

- GFSK CH03, CH77 (Transmitting / Receive)

## 2.5. Description of Test System

No supporting system during the test.



### 3. General Information of Test

|                                |                                                                                                                                                                                                                                                                                                                                                                                 |
|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Site :                    | Cerpass Technology Corporation Test Laboratory<br>No.10, Lane 2, Lianfu Street, Luzhu Township,<br>Taoyuan County 33848, Taiwan, R.O.C.                                                                                                                                                                                                                                         |
| Test Site Location :           | No.68-1, Shihbachongsi, Shihding Township,<br>New Taipei City 223, Taiwan, R.O.C.                                                                                                                                                                                                                                                                                               |
| FCC Registration Number :      | <input type="checkbox"/> TW1079, <input checked="" type="checkbox"/> TW1061, <input type="checkbox"/> 390316,<br><input checked="" type="checkbox"/> 228391, <input type="checkbox"/> 641184                                                                                                                                                                                    |
| IC Registration Number :       | <input type="checkbox"/> 4934B-1, <input checked="" type="checkbox"/> 4934E-1, <input type="checkbox"/> 4934E-2                                                                                                                                                                                                                                                                 |
| VCCI Registration Number :     | <input checked="" type="checkbox"/> T-2205 for Telecommunication Test<br><input checked="" type="checkbox"/> C-4463 for Conducted emission test<br><input checked="" type="checkbox"/> R-3428 for Radiated emission test<br><input checked="" type="checkbox"/> G-812 for radiated disturbance above 1GHz<br><input type="checkbox"/> G-813 for radiated disturbance above 1GHz |
| Frequency Range Investigated : | Conducted Emission Test: from 150 kHz to 30 MHz<br>Radiated Emission Test: from 30 MHz to 13,000 MHz                                                                                                                                                                                                                                                                            |
| Modulation Type:               | GFSK                                                                                                                                                                                                                                                                                                                                                                            |
| Test Distance:                 | The test distance of radiated emission above 1GHz from antenna to EUT is 3 M.                                                                                                                                                                                                                                                                                                   |



## 4. Test of Conducted Emission

### 4.1. Test Limit

Conducted Emissions were measured from 150 kHz to 30 MHz with a bandwidth of 9 KHz on the 120 VAC power and return leads of the EUT according to the methods defined in ANSI C63.4-2009 Section 3.1. The EUT was placed on a nonmetallic stand in a shielded room 0.8 meters above the ground plane as shown in section 2.2. The interface cables and equipment positioning were varied within limits of reasonable applications to determine the position produced maximum conducted emissions.

| Frequency (MHz) | Quasi Peak (dB $\mu$ V) | Average (dB $\mu$ V) |
|-----------------|-------------------------|----------------------|
| 0.15 – 0.5      | 66-56*                  | 56-46*               |
| 0.5 – 5.0       | 56                      | 46                   |
| 5.0 – 30.0      | 60                      | 50                   |

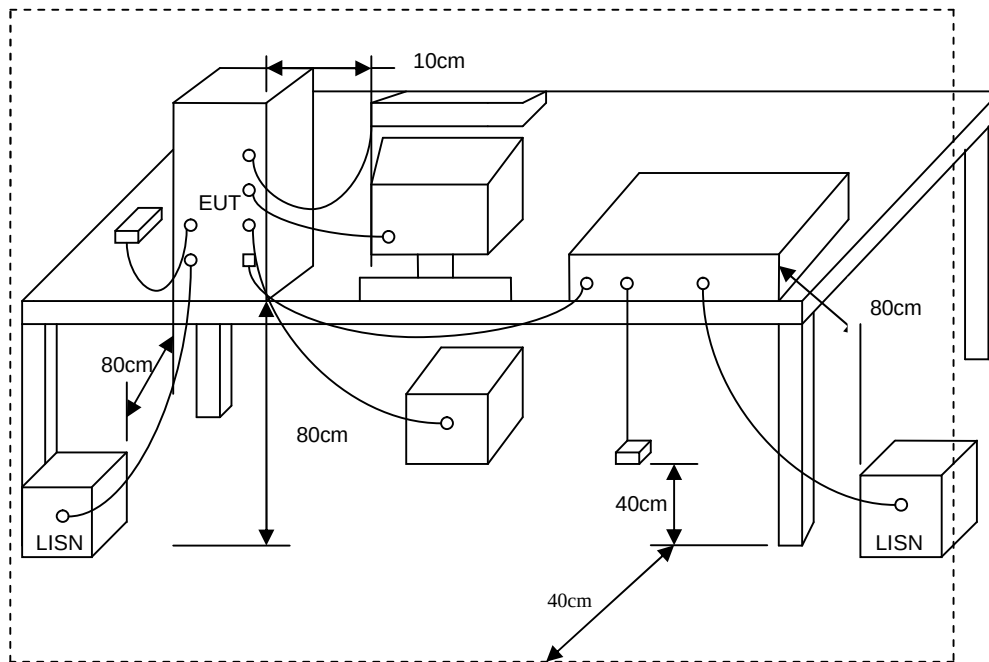
\*Decreases with the logarithm of the frequency.

### 4.2. Test Procedures

- The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
- Connect EUT to the power mains through a line impedance stabilization network (LISN).
- All the support units are connecting to the other LISN.
- The LISN provides 50 ohm coupling impedance for the measuring instrument.
- The FCC states that a 50 ohm, 50 micro-Henry LISN should be used.
- Both sides of AC line were checked for maximum conducted interference.
- The frequency range from 150 kHz to 30 MHz was searched.
- Set the test-receiver system to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.



### 4.3. Typical Test Setup



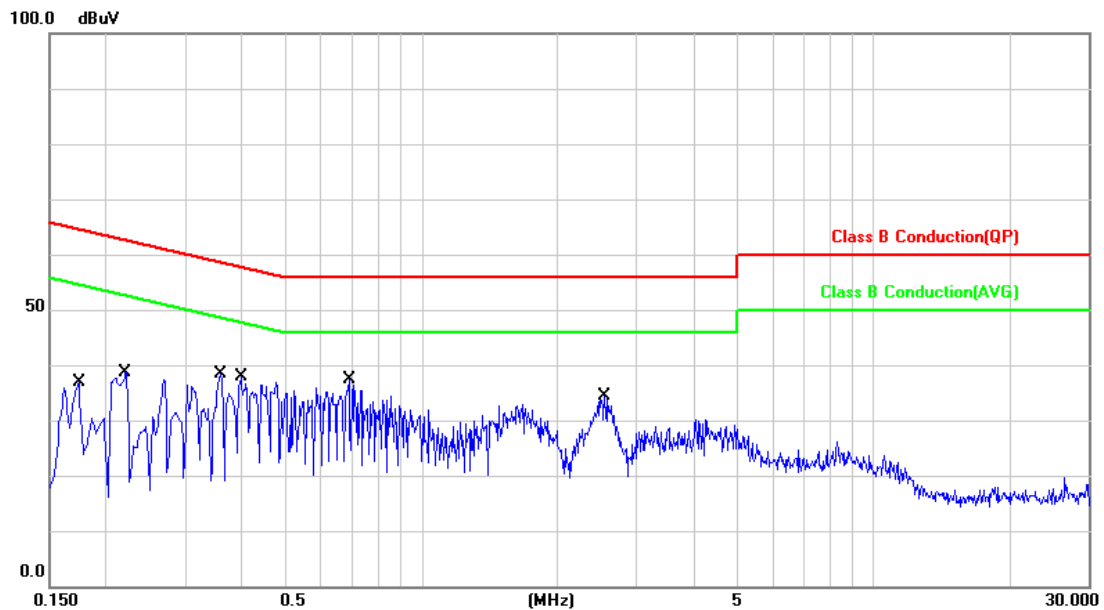
### 4.4. Measurement Equipment

| Instrument    | Manufacturer | Model No. | Serial No. | Calibration Date | Valid Date |
|---------------|--------------|-----------|------------|------------------|------------|
| EMI Receiver  | R&S          | ESCI      | 101423     | 2014/06/05       | 2015/06/04 |
| LISN          | Schwarzbeck  | NSLK 8127 | 8127-740   | 2014/08/14       | 2015/08/13 |
| LISN          | Schwarzbeck  | NSLK 8127 | 8127-516   | 2014/03/10       | 2015/03/09 |
| Pulse Limiter | R&S          | ESH3-Z2   | 101933     | 2014/08/12       | 2015/08/11 |
| Software      | Farad        | Ez-EMC    | ver.ct3a1  | N/A              | N/A        |



#### 4.5. Test Result and Data

|             |                          |                      |            |
|-------------|--------------------------|----------------------|------------|
| Power       | : AC 120V                | Pol/Phase            | : LINE     |
| Test Mode 1 | : Transmitting / Receive | Temperature          | : 26 °C    |
| Test Date   | : Oct. 02, 2014          | Humidity             | : 48 %     |
| Memo        | : GFSK                   | Atmospheric Pressure | : 1008 hpa |

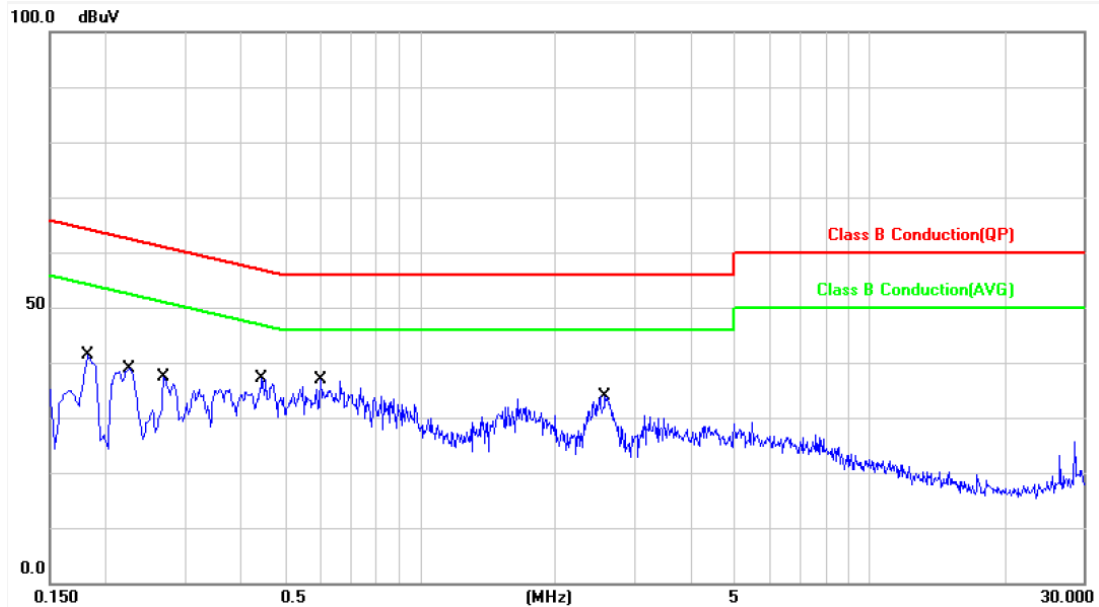


| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV) | Limit (dBuV) | Margin (dB) | Detector | P/F |
|-----|-----------------|-------------|----------------|--------------|--------------|-------------|----------|-----|
| 1   | 0.1740          | 9.92        | 21.62          | 31.54        | 64.76        | -33.22      | QP       | P   |
| 2   | 0.1740          | 9.92        | 7.48           | 17.40        | 54.76        | -37.36      | AVG      | P   |
| 3   | 0.2220          | 9.92        | 24.12          | 34.04        | 62.74        | -28.70      | QP       | P   |
| 4   | 0.2220          | 9.92        | 7.44           | 17.36        | 52.74        | -35.38      | AVG      | P   |
| 5   | 0.3580          | 9.92        | 23.30          | 33.22        | 58.77        | -25.55      | QP       | P   |
| 6   | 0.3580          | 9.92        | 8.57           | 18.49        | 48.77        | -30.28      | AVG      | P   |
| 7   | 0.3980          | 9.92        | 23.16          | 33.08        | 57.89        | -24.81      | QP       | P   |
| 8   | 0.3980          | 9.92        | 9.97           | 19.89        | 47.89        | -28.00      | AVG      | P   |
| 9   | 0.6900          | 9.94        | 22.10          | 32.04        | 56.00        | -23.96      | QP       | P   |
| 10  | 0.6900          | 9.94        | 8.87           | 18.81        | 46.00        | -27.19      | AVG      | P   |
| 11  | 2.5500          | 10.05       | 18.27          | 28.32        | 56.00        | -27.68      | QP       | P   |
| 12  | 2.5500          | 10.05       | 6.40           | 16.45        | 46.00        | -29.55      | AVG      | P   |

Note: Level = Reading + Factor  
Margin = Level – Limit



|             |                          |                      |            |
|-------------|--------------------------|----------------------|------------|
| Power       | : AC 120V                | Pol/Phase            | : NEUTRAL  |
| Test Mode 1 | : Transmitting / Receive | Temperature          | : 26 °C    |
| Test Date   | : Oct. 02, 2014          | Humidity             | : 48 %     |
| Memo        | : GFSK                   | Atmospheric Pressure | : 1008 hpa |



| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV) | Limit (dBuV) | Margin (dB) | Detector | P/F |
|-----|-----------------|-------------|----------------|--------------|--------------|-------------|----------|-----|
| 1   | 0.1819          | 9.91        | 25.11          | 35.02        | 64.39        | -29.37      | QP       | P   |
| 2   | 0.1819          | 9.91        | 8.70           | 18.61        | 54.39        | -35.78      | AVG      | P   |
| 3   | 0.2260          | 9.91        | 20.29          | 30.20        | 62.59        | -32.39      | QP       | P   |
| 4   | 0.2260          | 9.91        | 3.11           | 13.02        | 52.59        | -39.57      | AVG      | P   |
| 5   | 0.2700          | 9.91        | 22.25          | 32.16        | 61.12        | -28.96      | QP       | P   |
| 6   | 0.2700          | 9.91        | 5.45           | 15.36        | 51.12        | -35.76      | AVG      | P   |
| 7   | 0.4460          | 9.92        | 20.05          | 29.97        | 56.95        | -26.98      | QP       | P   |
| 8   | 0.4460          | 9.92        | 10.33          | 20.25        | 46.95        | -26.70      | AVG      | P   |
| 9   | 0.6020          | 9.92        | 15.46          | 25.38        | 56.00        | -30.62      | QP       | P   |
| 10  | 0.6020          | 9.92        | 4.91           | 14.83        | 46.00        | -31.17      | AVG      | P   |
| 11  | 2.5860          | 10.05       | 10.47          | 20.52        | 56.00        | -35.48      | QP       | P   |
| 12  | 2.5860          | 10.05       | 0.71           | 10.76        | 46.00        | -35.24      | AVG      | P   |

Note: Level = Reading + Factor  
Margin = Level – Limit



## 5. Test of Radiated Emission

### 5.1. Test Limit

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 the lesser attenuation.

| Frequency (MHz) | Distance | Limit ( $\mu\text{V}/\text{m}$ ) |
|-----------------|----------|----------------------------------|
| 0.09 ~ 0.490    | 300m     | 2400/F(kHz)                      |
| 0.490 ~ 1.705   | 30m      | 24000/ F(kHz)                    |
| 1.705 ~ 30      | 30m      | 30                               |
| 30 ~ 88         | 3m       | 100                              |
| 88 ~ 216        | 3m       | 150                              |
| 216 ~ 960       | 3m       | 200                              |
| Above 960       | 3m       | 500                              |

#### Fundamental Frequency:

| Fundamental Frequency (MHz) | Field strength of fundamental (millivolts/meter) | Field strength of harmonics (microvolts/meter) |
|-----------------------------|--------------------------------------------------|------------------------------------------------|
| 2400-2483.5                 | 50                                               | 500                                            |
| 5725-5875                   | 50                                               | 500                                            |
| 24000-24250                 | 250                                              | 2500                                           |

### 5.2. Test Procedures

- The EUT was placed on a rotatable table top 0.8 meter above ground.
- The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
- The table was rotated 360 degrees to determine the position of the highest radiation.
- The antenna is a broadband antenna and its height is varied between one meter and four meters above ground to find the maximum value of the field strength both horizontal polarization and vertical polarization of the antenna are set to make the measurement.
- For each suspected emission the EUT was arranged to its worst case and then tune the antenna tower (from 1 M to 4 M) and turn table (from 0 degree to 360 degrees) to find the maximum reading.
- Set the test-receiver system to Peak or CISPR quasi-peak Detect Function and specified bandwidth with Maximum Hold Mode.
- If the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method and reported.
- For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than average limit (that means the emission level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
- "Cone of radiation" has been considered to be 3dB beamwidth of the measurement antenna.

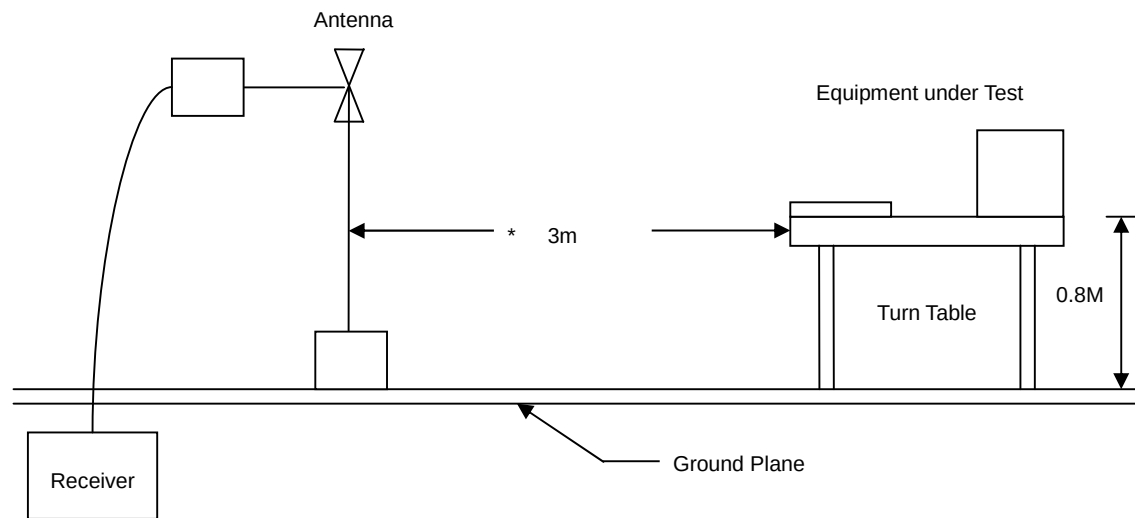
#### NOTE:

- The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Peak detection (PK) and Quasi-peak detection (QP) at frequency below 1GHz.
- The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1 MHz for Peak detection at frequency above 1GHz.
- The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 10 Hz for Average detection (AV) at frequency above 1GHz.

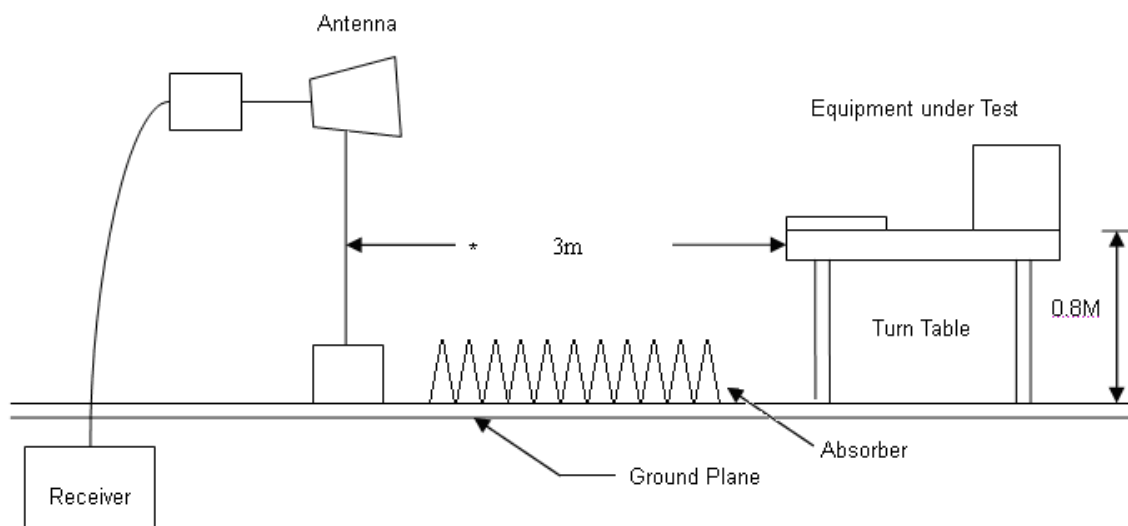


### 5.3. Typical Test Setup Layout of Radiated Emission

Below 1GHz Test Setup



Above 1GHz Test Setup



### 5.4. Measurement equipment

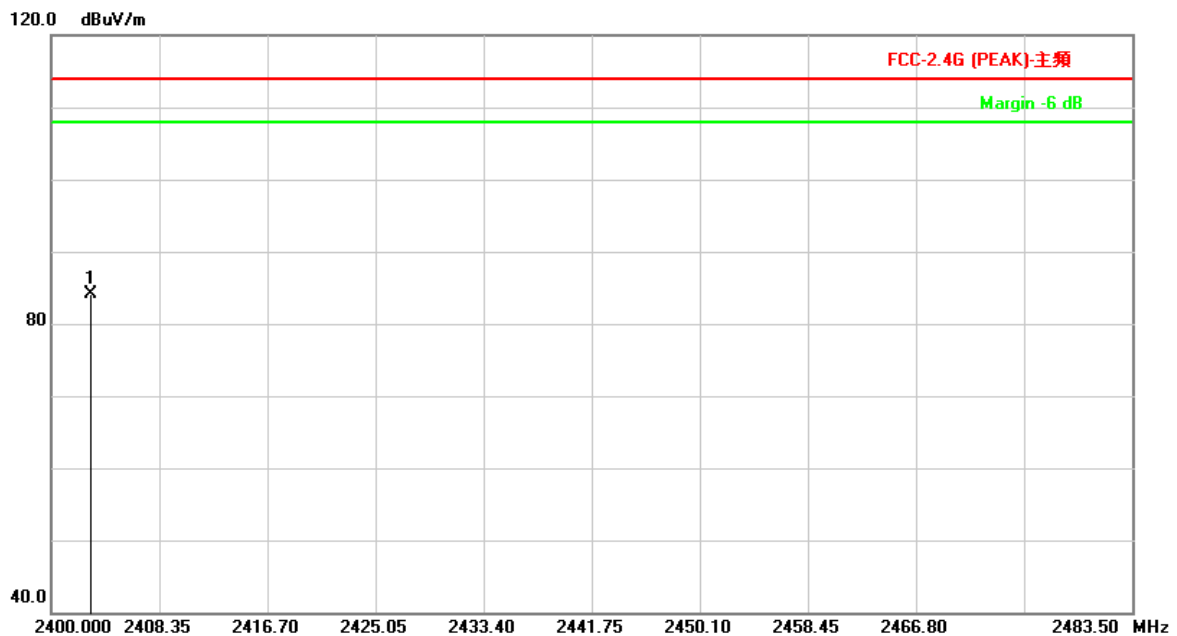
| Instrument/Ancillary | Manufacturer | Model No. | Serial No. | Calibration Date | Valid Date |
|----------------------|--------------|-----------|------------|------------------|------------|
| EMI Receiver         | R&S          | ESCI      | 100443     | 2014/04/09       | 2015/04/08 |
| Bilog Antenna        | Schwarzbeck  | VULB 9168 | 275        | 2014/09/18       | 2015/09/17 |
| Amplifier            | QuieTek      | AP/0100A  | CHM0906075 | 2014/09/17       | 2015/09/16 |
| SPECTRUM ANALYZER    | R&S          | FSP40     | 100219     | 2014/09/03       | 2015/09/02 |
| HORN ANTENNA         | EMCO         | 3115      | 31601      | 2014/07/09       | 2015/07/08 |
| PREAMPLIFIER         | AGILENT      | 8449B     | 3008A01954 | 2014/03/28       | 2015/03/27 |
| Software             | Farad        | Ez-EMC    | ver.ct3a1  | N/A              | N/A        |



## 5.5. Test Result and Data

### 5.5.1. Test Result of Fundamental Emission

|                 |                          |                      |            |
|-----------------|--------------------------|----------------------|------------|
| Power           | : DC 3.7V                | Pol/Phase            | : VERTICAL |
| Test Mode       | : Transmitting / Receive | Temperature          | : 25 °C    |
| Test Date       | : Oct. 23, 2014          | Humidity             | : 49 %     |
| Modulation Type | : GFSK (CH03)            | Atmospheric Pressure | : 1010 hPa |



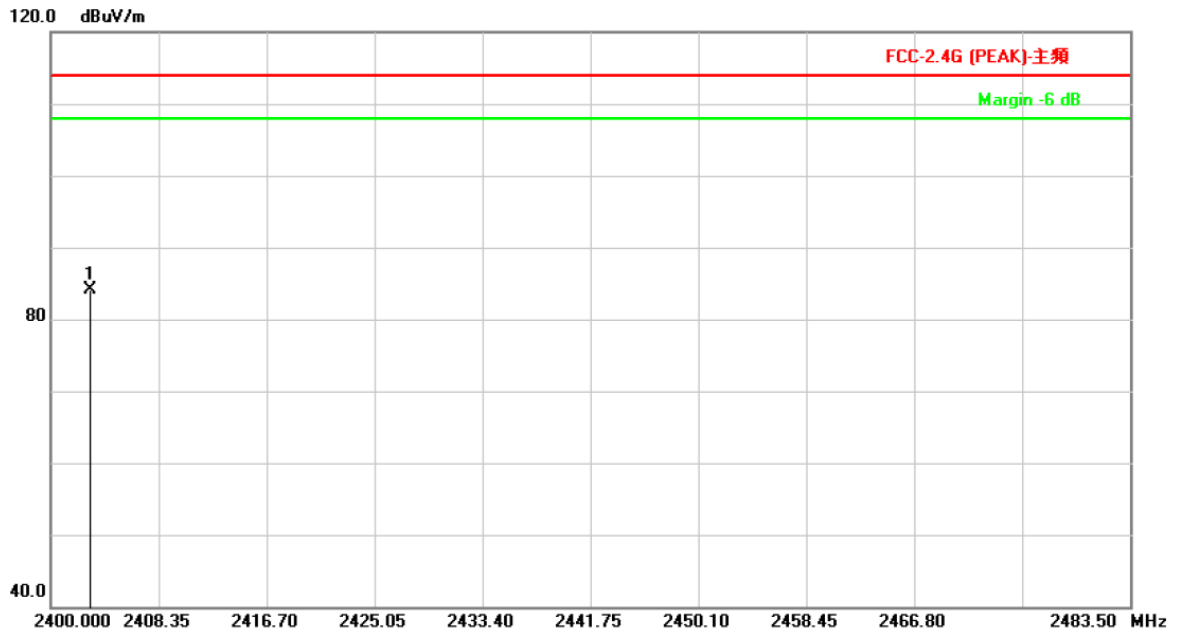
| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (°) | P/F |
|-----|-----------------|---------------|----------------|----------------|----------------|-------------|----------|-------------|-------------|-----|
| 1   | 2403.006        | -1.13         | 85.27          | 84.14          | 114.00         | -29.86      | peak     | 100         | 0           | P   |

Note: Level = Reading + Factor

Margin = Level - Limit



|                 |                          |                      |              |
|-----------------|--------------------------|----------------------|--------------|
| Power           | : DC 3.7V                | Pol/Phase            | : HORIZONTAL |
| Test Mode       | : Transmitting / Receive | Temperature          | : 25 °C      |
| Test Date       | : Oct. 23, 2014          | Humidity             | : 49 %       |
| Modulation Type | : GFSK (CH03)            | Atmospheric Pressure | : 1010 hPa   |

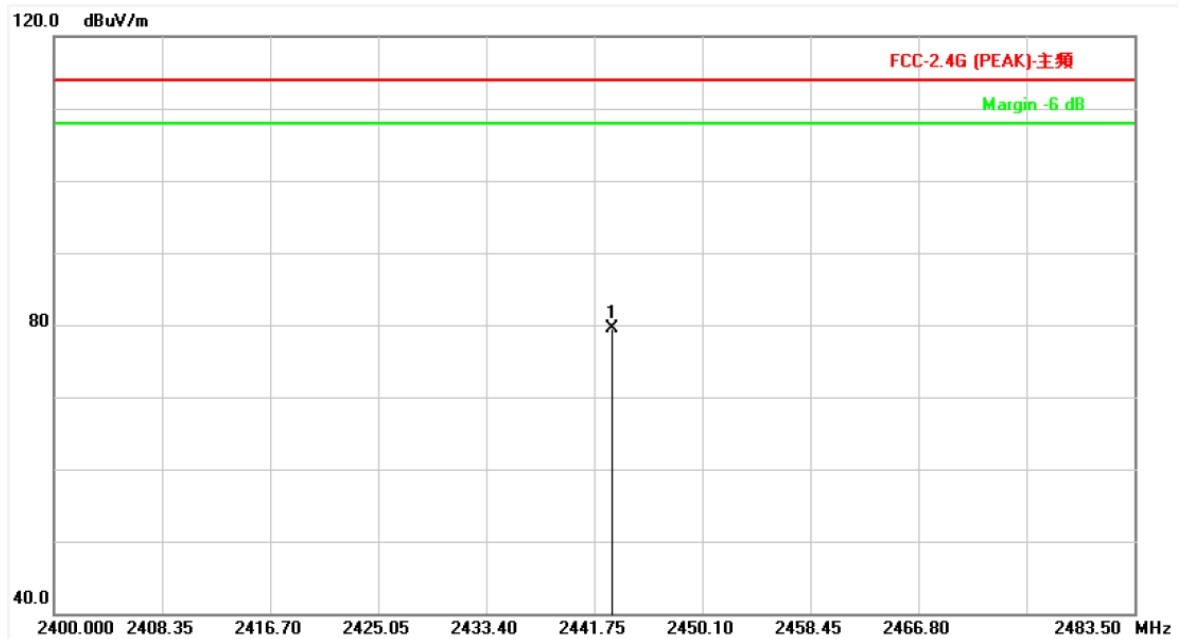


| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (°) | P/F |
|-----|-----------------|---------------|----------------|----------------|----------------|-------------|----------|-------------|-------------|-----|
| 1   | 2403.006        | -1.13         | 85.29          | 84.16          | 114.00         | -29.84      | peak     | 100         | 0           | P   |

Note: Level = Reading + Factor  
Margin = Level - Limit



|                 |                          |                      |            |
|-----------------|--------------------------|----------------------|------------|
| Power           | : DC 3.7V                | Pol/Phase            | : VERTICAL |
| Test Mode       | : Transmitting / Receive | Temperature          | : 25 °C    |
| Test Date       | : Oct. 23, 2014          | Humidity             | : 49 %     |
| Modulation Type | : GFSK (CH43)            | Atmospheric Pressure | : 1010 hPa |

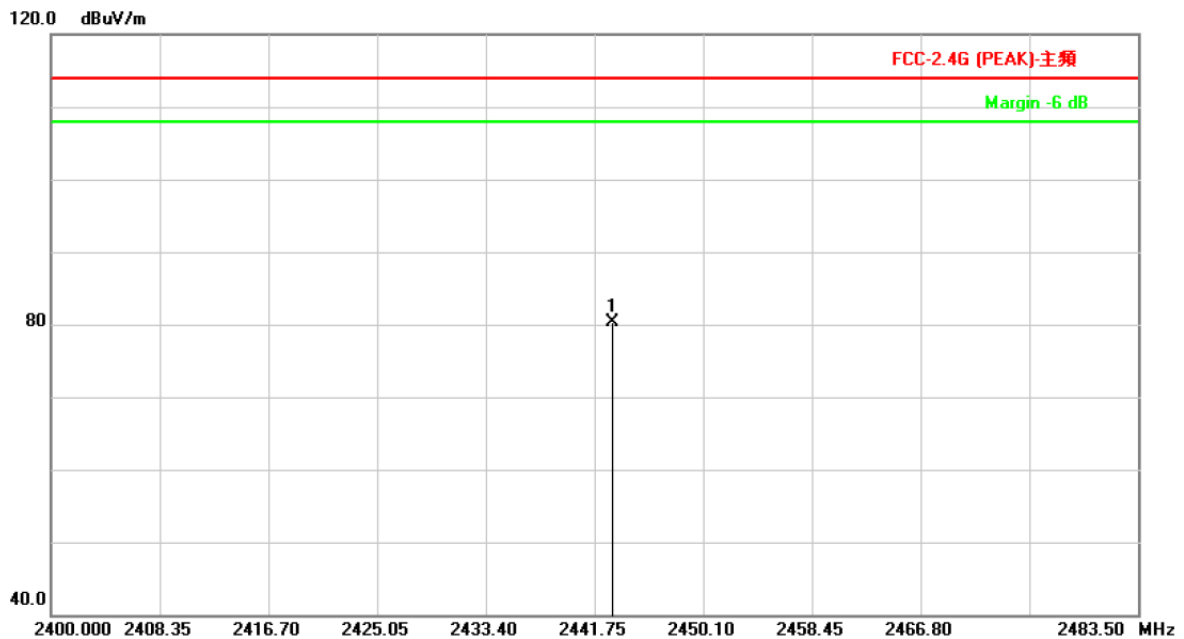


| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (°) | P/F |
|-----|-----------------|---------------|----------------|----------------|----------------|-------------|----------|-------------|-------------|-----|
| 1   | 2443.086        | -0.98         | 80.52          | 79.54          | 114.00         | -34.46      | peak     | 100         | 0           | P   |

Note: Level = Reading + Factor  
Margin = Level - Limit



|                 |                          |                      |              |
|-----------------|--------------------------|----------------------|--------------|
| Power           | : DC 3.7V                | Pol/Phase            | : HORIZONTAL |
| Test Mode       | : Transmitting / Receive | Temperature          | : 25 °C      |
| Test Date       | : Oct. 23, 2014          | Humidity             | : 49 %       |
| Modulation Type | : GFSK (CH43)            | Atmospheric Pressure | : 1010 hPa   |

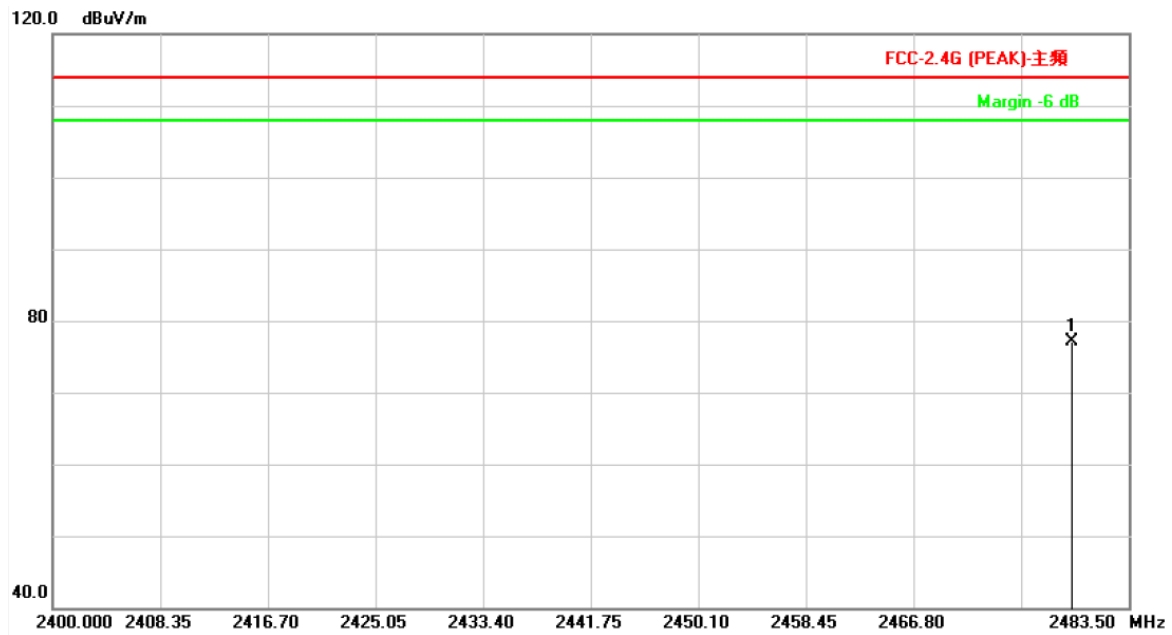


| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (°) | P/F |
|-----|-----------------|---------------|----------------|----------------|----------------|-------------|----------|-------------|-------------|-----|
| 1   | 2443.086        | -0.98         | 81.36          | 80.38          | 114.00         | -33.62      | peak     | 100         | 0           | P   |

Note: Level = Reading + Factor  
Margin = Level – Limit



|                 |                          |                      |            |
|-----------------|--------------------------|----------------------|------------|
| Power           | : DC 3.7V                | Pol/Phase            | : VERTICAL |
| Test Mode       | : Transmitting / Receive | Temperature          | : 25 °C    |
| Test Date       | : Oct. 23, 2014          | Humidity             | : 49 %     |
| Modulation Type | : GFSK (CH77)            | Atmospheric Pressure | : 1010 hPa |

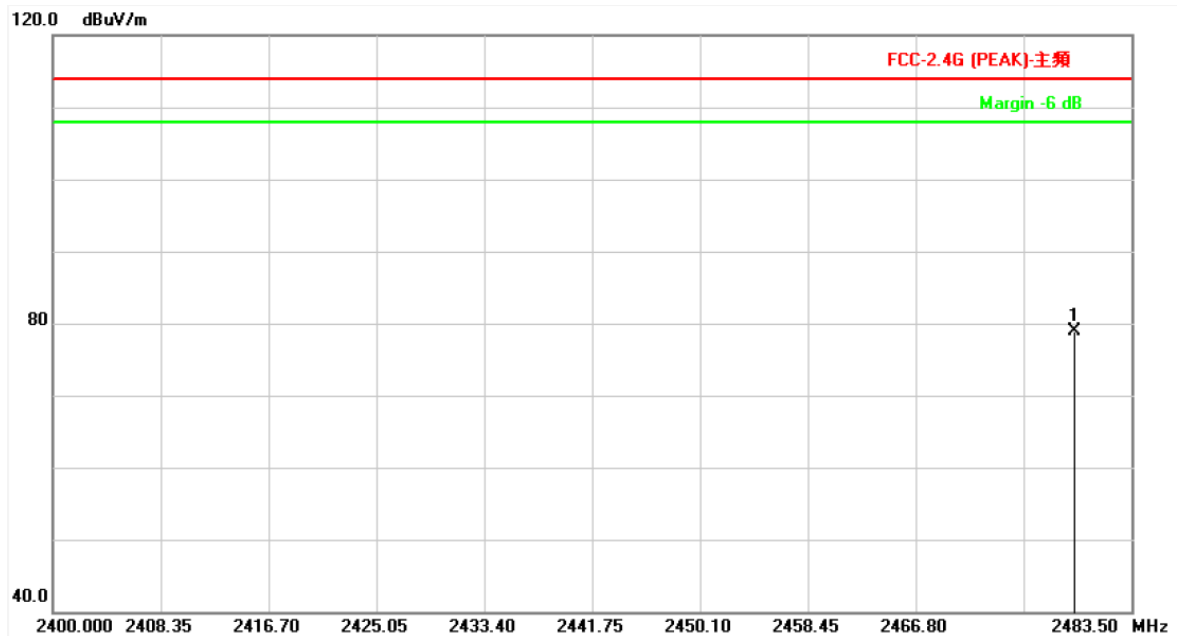


| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (°) | P/F |
|-----|-----------------|---------------|----------------|----------------|----------------|-------------|----------|-------------|-------------|-----|
| 1   | 2479.075        | -0.84         | 78.00          | 77.16          | 114.00         | -36.84      | peak     | 100         | 0           | P   |

Note: Level = Reading + Factor  
Margin = Level - Limit



|                 |                          |                      |              |
|-----------------|--------------------------|----------------------|--------------|
| Power           | : DC 3.7V                | Pol/Phase            | : HORIZONTAL |
| Test Mode       | : Transmitting / Receive | Temperature          | : 25 °C      |
| Test Date       | : Oct. 23, 2014          | Humidity             | : 49 %       |
| Modulation Type | : GFSK (CH77)            | Atmospheric Pressure | : 1010 hPa   |



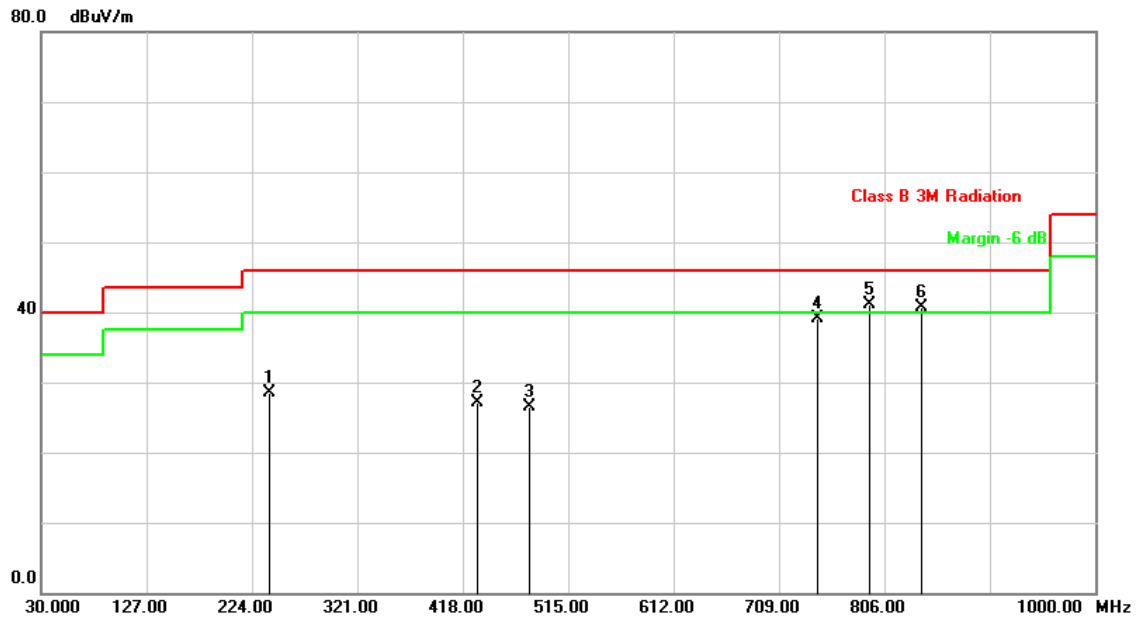
| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (°) | P/F |
|-----|-----------------|---------------|----------------|----------------|----------------|-------------|----------|-------------|-------------|-----|
| 1   | 2479.075        | -0.84         | 79.65          | 78.81          | 114.00         | -35.19      | peak     | 100         | 0           | P   |

Note: Level = Reading + Factor  
Margin = Level – Limit



## 5.5.2. Test Result of Unwanted Spurious emission (30MHz ~ 1GHz)

|                 |                          |                      |            |
|-----------------|--------------------------|----------------------|------------|
| Power           | : AC 120V                | Pol/Phase            | : VERTICAL |
| Test Mode       | : Transmitting / Receive | Temperature          | : 25 °C    |
| Test Date       | : Oct. 24, 2014          | Humidity             | : 49 %     |
| Modulation Type | : GFSK (CH03)            | Atmospheric Pressure | : 1010 hPa |

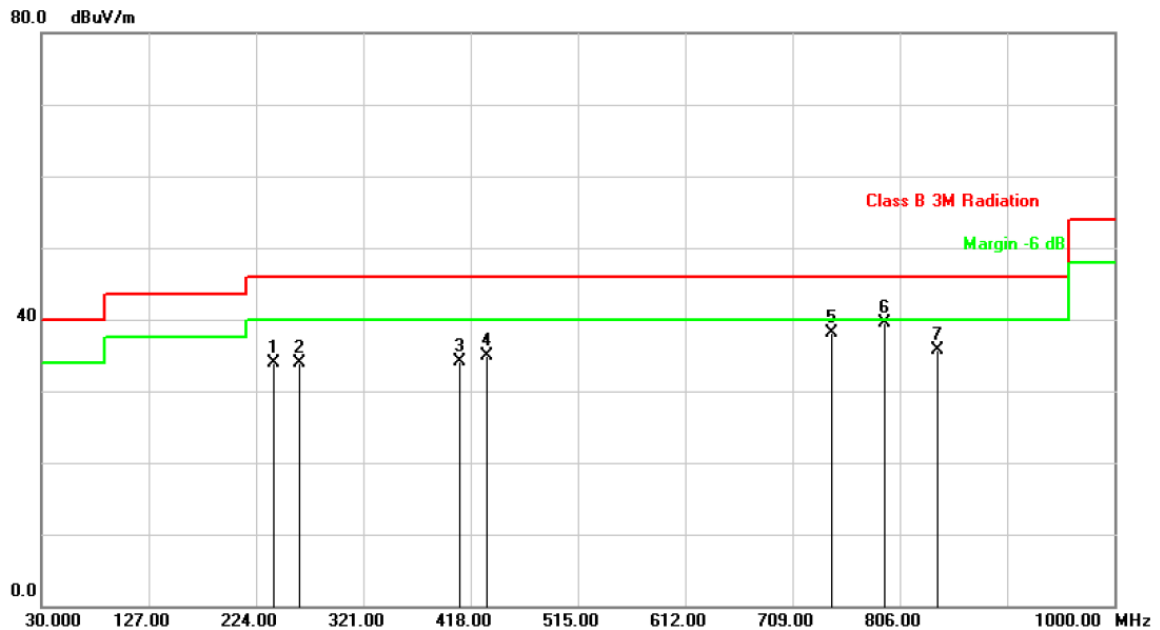


| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (°) | P/F |
|-----|-----------------|---------------|----------------|----------------|----------------|-------------|----------|-------------|-------------|-----|
| 1   | 239.5200        | -22.33        | 50.89          | 28.56          | 46.00          | -17.44      | peak     | 100         | 0           | P   |
| 2   | 431.5799        | -21.37        | 48.49          | 27.12          | 46.00          | -18.88      | peak     | 100         | 0           | P   |
| 3   | 480.0799        | -19.82        | 46.35          | 26.53          | 46.00          | -19.47      | peak     | 100         | 0           | P   |
| 4   | 744.8899        | -11.58        | 50.75          | 39.17          | 46.00          | -6.83       | peak     | 100         | 0           | P   |
| 5   | 792.4199        | -11.68        | 52.81          | 41.13          | 46.00          | -4.87       | QP       | 100         | 182         | P   |
| 6   | 840.9199        | -9.89         | 50.69          | 40.80          | 46.00          | -5.20       | QP       | 100         | 188         | P   |

Note: Level = Reading + Factor  
Margin = Level – Limit



|                 |                          |                      |            |
|-----------------|--------------------------|----------------------|------------|
| Power           | : AC 120V                | Pol/Phase            | : VERTICAL |
| Test Mode       | : Transmitting / Receive | Temperature          | : 25 °C    |
| Test Date       | : Oct. 24, 2014          | Humidity             | : 49 %     |
| Modulation Type | : GFSK (CH03)            | Atmospheric Pressure | : 1010 hPa |

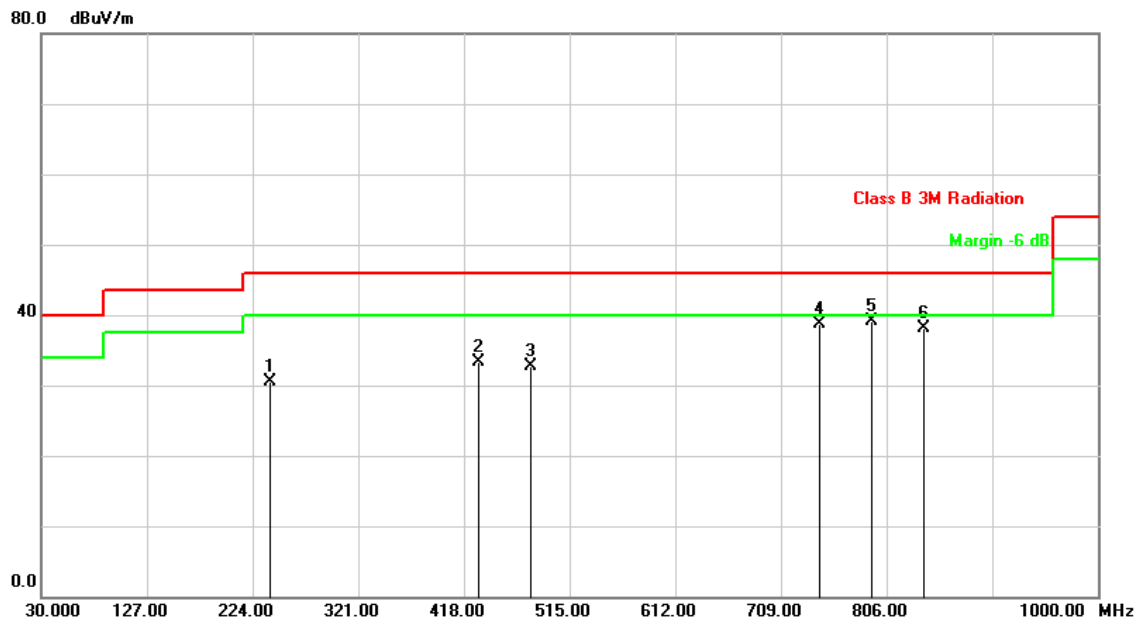


| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (°) | P/F |
|-----|-----------------|---------------|----------------|----------------|----------------|-------------|----------|-------------|-------------|-----|
| 1   | 239.5200        | -27.49        | 61.44          | 33.95          | 46.00          | -12.05      | peak     | 100         | 0           | P   |
| 2   | 263.7699        | -26.23        | 60.19          | 33.96          | 46.00          | -12.04      | peak     | 100         | 0           | P   |
| 3   | 408.3000        | -20.69        | 54.86          | 34.17          | 46.00          | -11.83      | peak     | 100         | 0           | P   |
| 4   | 432.5500        | -20.23        | 55.11          | 34.88          | 46.00          | -11.12      | peak     | 100         | 0           | P   |
| 5   | 744.8899        | -12.11        | 50.23          | 38.12          | 46.00          | -7.88       | peak     | 100         | 0           | P   |
| 6   | 792.4199        | -11.35        | 50.85          | 39.50          | 46.00          | -6.50       | peak     | 100         | 0           | P   |
| 7   | 839.9500        | -11.51        | 47.17          | 35.66          | 46.00          | -10.34      | peak     | 100         | 0           | P   |

Note: Level = Reading + Factor  
Margin = Level – Limit



|                 |                          |                      |            |
|-----------------|--------------------------|----------------------|------------|
| Power           | : DC 3.7V                | Pol/Phase            | : VERTICAL |
| Test Mode       | : Transmitting / Receive | Temperature          | : 25 °C    |
| Test Date       | : Oct. 24, 2014          | Humidity             | : 49 %     |
| Modulation Type | : GFSK (CH03)            | Atmospheric Pressure | : 1010 hPa |

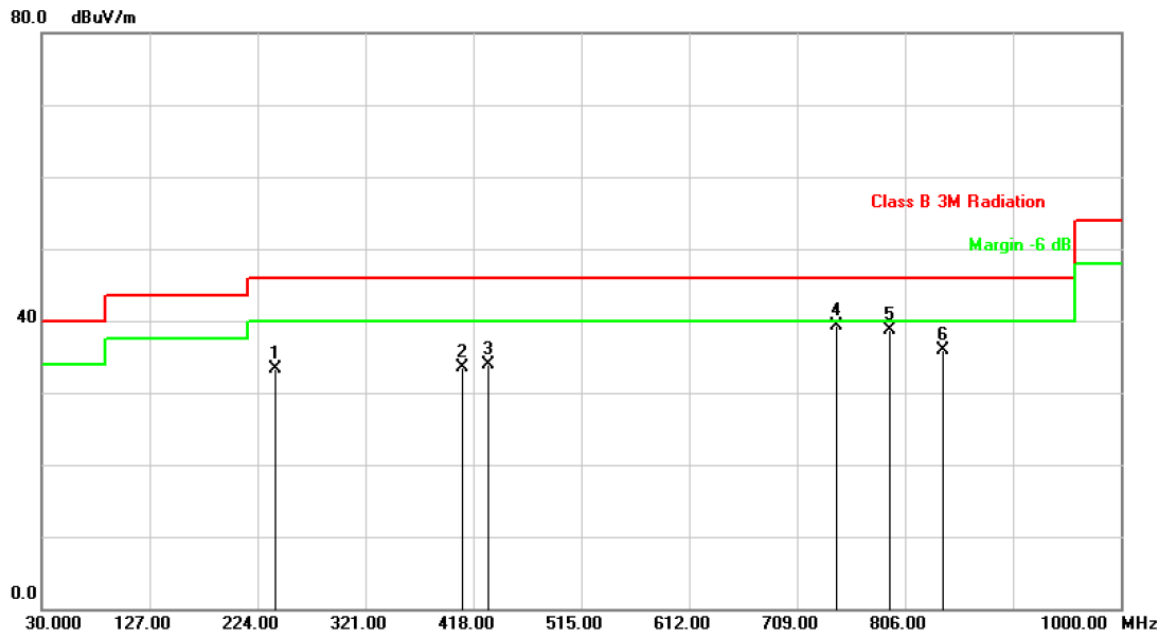


| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (°) | P/F |
|-----|-----------------|---------------|----------------|----------------|----------------|-------------|----------|-------------|-------------|-----|
| 1   | 239.5200        | -20.03        | 50.58          | 30.55          | 46.00          | -15.45      | peak     | 100         | 0           | P   |
| 2   | 431.5799        | -14.15        | 47.44          | 33.29          | 46.00          | -12.71      | peak     | 100         | 0           | P   |
| 3   | 480.0799        | -13.11        | 45.77          | 32.66          | 46.00          | -13.34      | peak     | 100         | 0           | P   |
| 4   | 744.8899        | -7.84         | 46.52          | 38.68          | 46.00          | -7.32       | peak     | 100         | 0           | P   |
| 5   | 792.4199        | -7.10         | 46.21          | 39.11          | 46.00          | -6.89       | peak     | 100         | 0           | P   |
| 6   | 840.9199        | -6.22         | 44.27          | 38.05          | 46.00          | -7.95       | peak     | 100         | 0           | P   |

Note: Level = Reading + Factor  
Margin = Level – Limit



|                 |                          |                      |              |
|-----------------|--------------------------|----------------------|--------------|
| Power           | : DC 3.7V                | Pol/Phase            | : HORIZONTAL |
| Test Mode       | : Transmitting / Receive | Temperature          | : 25 °C      |
| Test Date       | : Oct. 24, 2014          | Humidity             | : 49 %       |
| Modulation Type | : GFSK (CH03)            | Atmospheric Pressure | : 1010 hPa   |

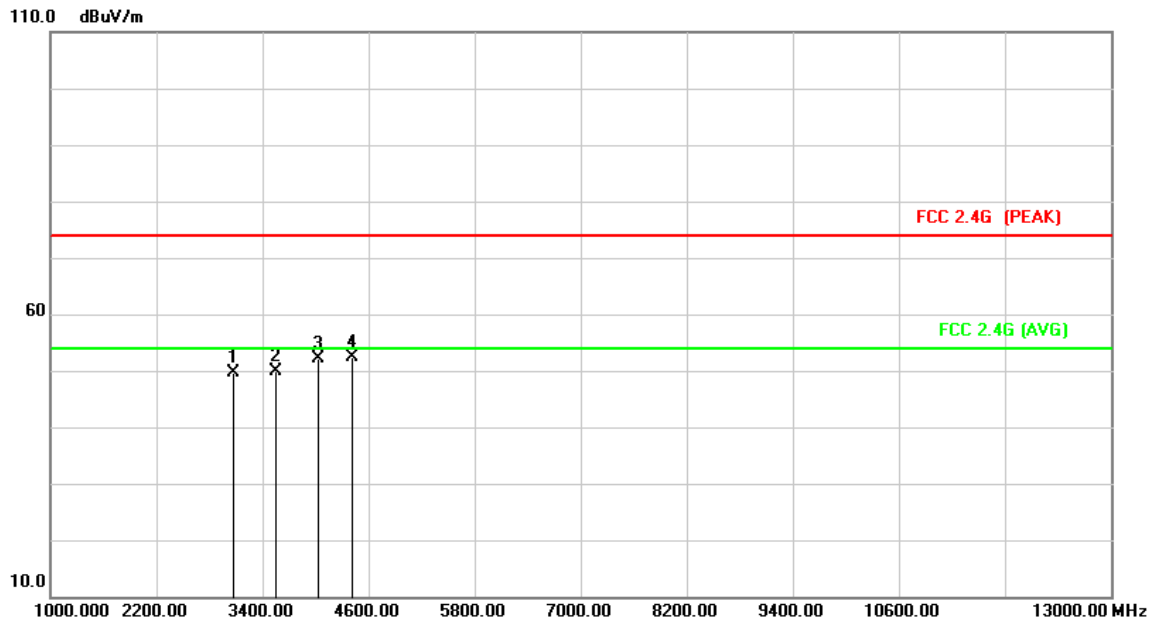


| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (°) | P/F |
|-----|-----------------|---------------|----------------|----------------|----------------|-------------|----------|-------------|-------------|-----|
| 1   | 239.5200        | -27.49        | 60.88          | 33.39          | 46.00          | -12.61      | peak     | 100         | 0           | P   |
| 2   | 408.3000        | -20.69        | 54.12          | 33.43          | 46.00          | -12.57      | peak     | 100         | 0           | P   |
| 3   | 431.5799        | -20.26        | 54.23          | 33.97          | 46.00          | -12.03      | peak     | 100         | 0           | P   |
| 4   | 744.8899        | -12.11        | 51.33          | 39.22          | 46.00          | -6.78       | peak     | 100         | 0           | P   |
| 5   | 792.4199        | -11.35        | 50.10          | 38.75          | 46.00          | -7.25       | peak     | 100         | 0           | P   |
| 6   | 840.9199        | -11.51        | 47.40          | 35.89          | 46.00          | -10.11      | peak     | 100         | 0           | P   |

Note: Level = Reading + Factor  
Margin = Level – Limit

**5.5.3. Test Result of Unwanted Spurious emission (1GHz ~ 13GHz)**

|                 |                          |                      |            |
|-----------------|--------------------------|----------------------|------------|
| Power           | : AC 120V                | Pol/Phase            | : VERTICAL |
| Test Mode       | : Transmitting / Receive | Temperature          | : 25 °C    |
| Test Date       | : Oct. 23, 2014          | Humidity             | : 49 %     |
| Modulation Type | : GFSK (CH03)            | Atmospheric Pressure | : 1010 hPa |

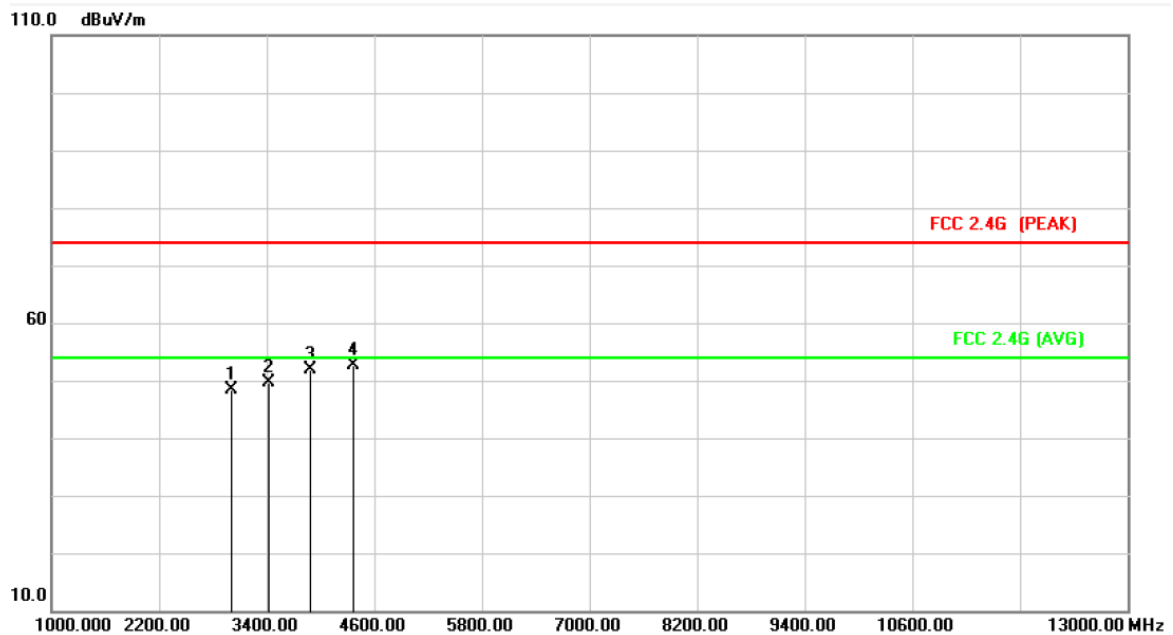


| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (°) | P/F |
|-----|-----------------|---------------|----------------|----------------|----------------|-------------|----------|-------------|-------------|-----|
| 1   | 3076.000        | 1.98          | 47.54          | 49.52          | 74.00          | -24.48      | peak     | 100         | 0           | P   |
| 2   | 3544.000        | 3.70          | 46.20          | 49.90          | 74.00          | -24.10      | peak     | 100         | 0           | P   |
| 3   | 4036.000        | 5.86          | 46.39          | 52.25          | 74.00          | -21.75      | peak     | 100         | 0           | P   |
| 4   | 4420.000        | 6.19          | 46.14          | 52.33          | 74.00          | -21.67      | peak     | 100         | 0           | P   |

Note: Level = Reading + Factor  
Margin = Level – Limit



|                 |                          |                      |            |
|-----------------|--------------------------|----------------------|------------|
| Power           | : AC 120V                | Pol/Phase            | : VERTICAL |
| Test Mode       | : Transmitting / Receive | Temperature          | : 25 °C    |
| Test Date       | : Oct. 23, 2014          | Humidity             | : 49 %     |
| Modulation Type | : GFSK (CH03)            | Atmospheric Pressure | : 1010 hPa |

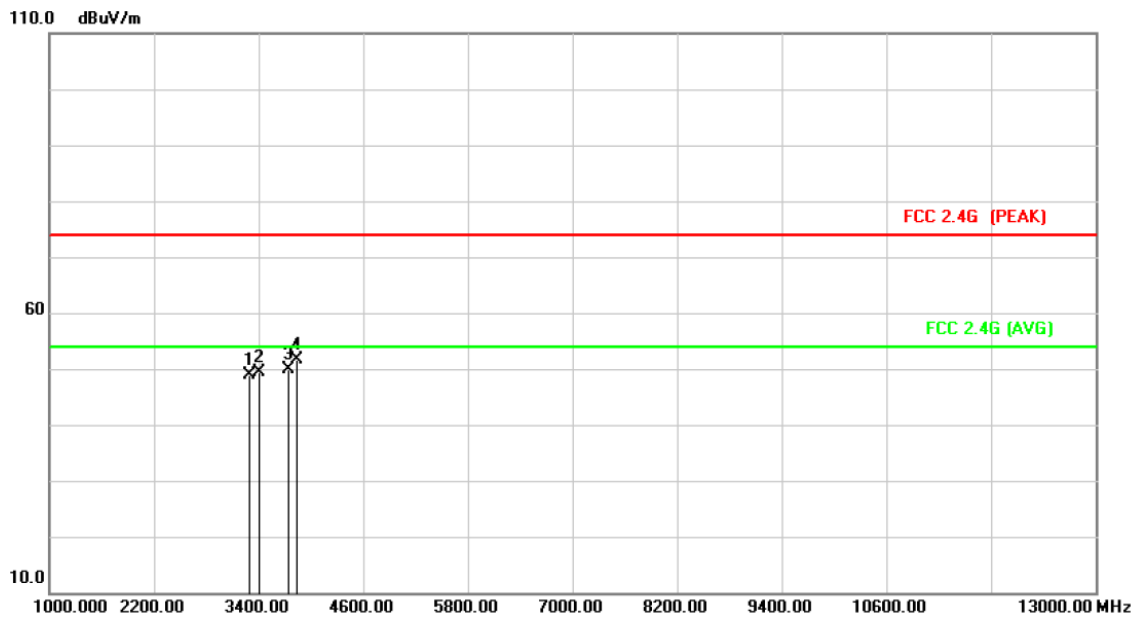


| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (°) | P/F |
|-----|-----------------|---------------|----------------|----------------|----------------|-------------|----------|-------------|-------------|-----|
| 1   | 3004.000        | 1.72          | 46.59          | 48.31          | 74.00          | -25.69      | peak     | 100         | 0           | P   |
| 2   | 3424.000        | 3.23          | 46.34          | 49.57          | 74.00          | -24.43      | peak     | 100         | 0           | P   |
| 3   | 3880.000        | 5.26          | 46.51          | 51.77          | 74.00          | -22.23      | peak     | 100         | 0           | P   |
| 4   | 4360.000        | 6.14          | 46.57          | 52.71          | 74.00          | -21.29      | peak     | 100         | 0           | P   |

Note: Level = Reading + Factor  
Margin = Level – Limit



|                 |                          |                      |            |
|-----------------|--------------------------|----------------------|------------|
| Power           | : DC 3.7V                | Pol/Phase            | : VERTICAL |
| Test Mode       | : Transmitting / Receive | Temperature          | : 25 °C    |
| Test Date       | : Oct. 23, 2014          | Humidity             | : 49 %     |
| Modulation Type | : GFSK (CH43)            | Atmospheric Pressure | : 1010 hPa |

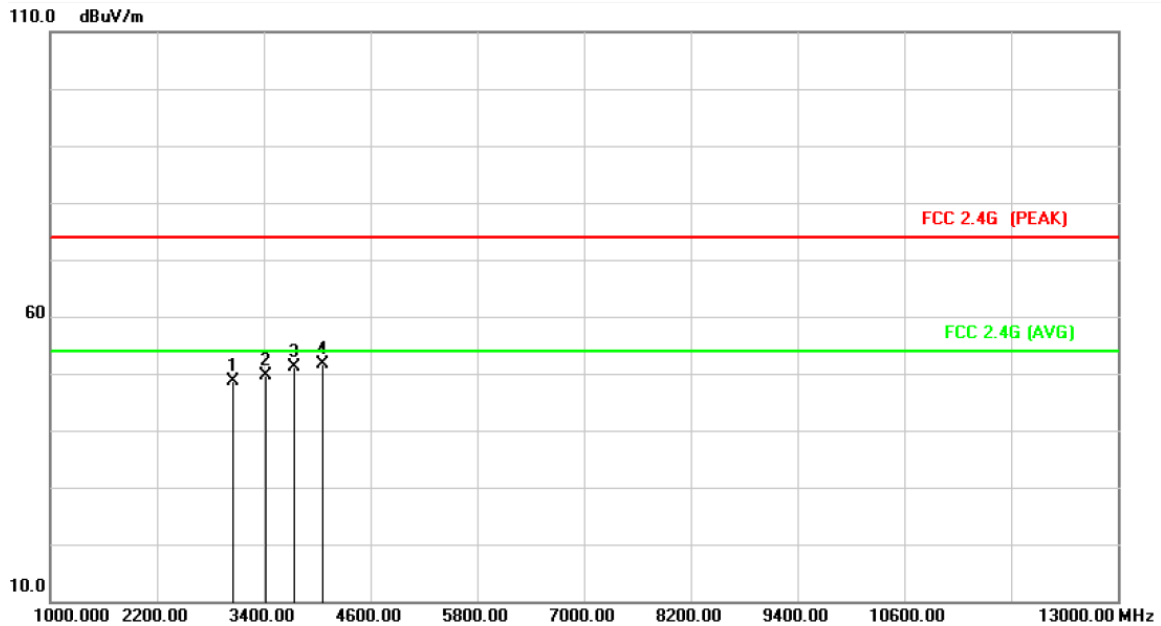


| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (°) | P/F |
|-----|-----------------|---------------|----------------|----------------|----------------|-------------|----------|-------------|-------------|-----|
| 1   | 3292.000        | 2.75          | 46.16          | 48.91          | 74.00          | -25.09      | peak     | 100         | 0           | P   |
| 2   | 3400.000        | 3.15          | 46.25          | 49.40          | 74.00          | -24.60      | peak     | 100         | 0           | P   |
| 3   | 3736.000        | 4.60          | 45.23          | 49.83          | 74.00          | -24.17      | peak     | 100         | 0           | P   |
| 4   | 3832.000        | 5.04          | 46.47          | 51.51          | 74.00          | -22.49      | peak     | 100         | 0           | P   |

Note: Level = Reading + Factor  
Margin = Level – Limit



|                 |                          |                      |              |
|-----------------|--------------------------|----------------------|--------------|
| Power           | : DC 3.7V                | Pol/Phase            | : HORIZONTAL |
| Test Mode       | : Transmitting / Receive | Temperature          | : 25 °C      |
| Test Date       | : Oct. 23, 2014          | Humidity             | : 49 %       |
| Modulation Type | : GFSK (CH43)            | Atmospheric Pressure | : 1010 hPa   |

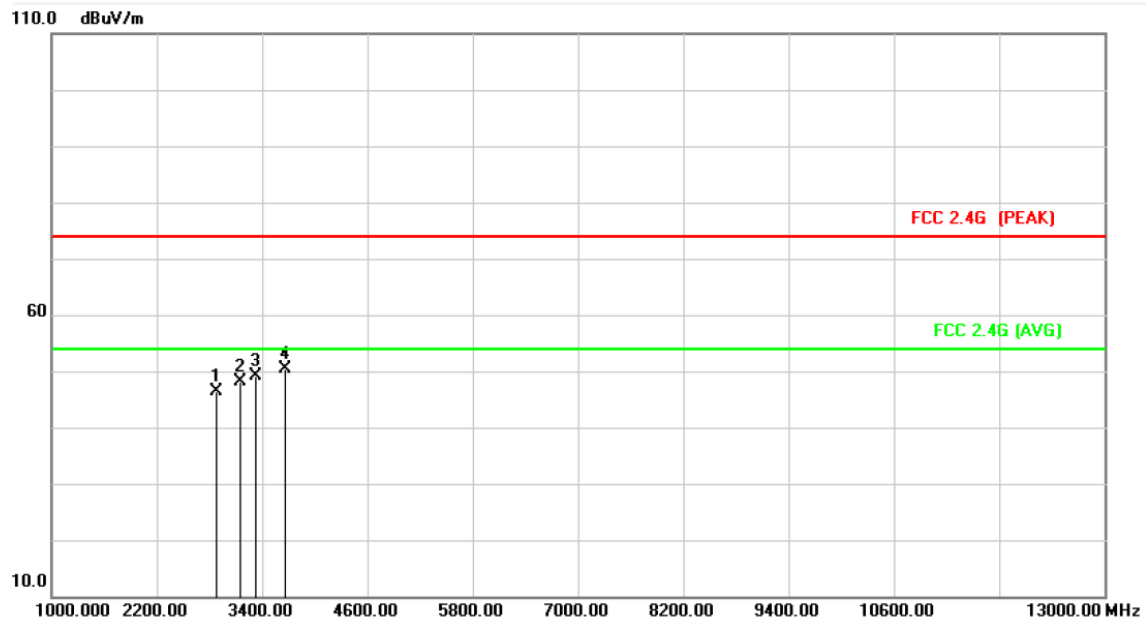


| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (°) | P/F |
|-----|-----------------|---------------|----------------|----------------|----------------|-------------|----------|-------------|-------------|-----|
| 1   | 3052.000        | 1.89          | 46.81          | 48.70          | 74.00          | -25.30      | peak     | 100         | 0           | P   |
| 2   | 3424.000        | 3.23          | 46.52          | 49.75          | 74.00          | -24.25      | peak     | 100         | 0           | P   |
| 3   | 3748.000        | 4.64          | 46.43          | 51.07          | 74.00          | -22.93      | peak     | 100         | 0           | P   |
| 4   | 4060.000        | 5.88          | 45.83          | 51.71          | 74.00          | -22.29      | peak     | 100         | 0           | P   |

Note: Level = Reading + Factor  
Margin = Level – Limit



|                 |                          |                      |            |
|-----------------|--------------------------|----------------------|------------|
| Power           | : DC 3.7V                | Pol/Phase            | : VERTICAL |
| Test Mode       | : Transmitting / Receive | Temperature          | : 25 °C    |
| Test Date       | : Oct. 23, 2014          | Humidity             | : 49 %     |
| Modulation Type | : GFSK (CH77)            | Atmospheric Pressure | : 1010 hPa |

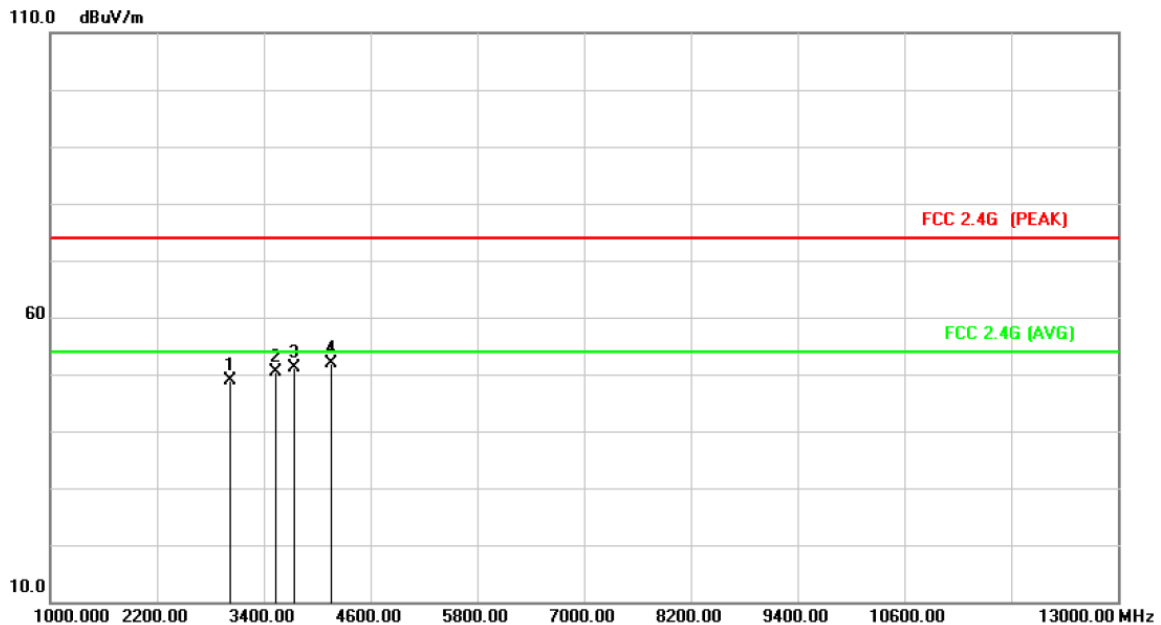


| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (°) | P/F |
|-----|-----------------|---------------|----------------|----------------|----------------|-------------|----------|-------------|-------------|-----|
| 1   | 2884.000        | 1.15          | 45.16          | 46.31          | 74.00          | -27.69      | peak     | 100         | 0           | P   |
| 2   | 3148.000        | 2.24          | 45.99          | 48.23          | 74.00          | -25.77      | peak     | 100         | 0           | P   |
| 3   | 3328.000        | 2.89          | 46.36          | 49.25          | 74.00          | -24.75      | peak     | 100         | 0           | P   |
| 4   | 3664.000        | 4.26          | 46.12          | 50.38          | 74.00          | -23.62      | peak     | 100         | 0           | P   |

Note: Level = Reading + Factor  
Margin = Level – Limit



|                 |                          |                      |              |
|-----------------|--------------------------|----------------------|--------------|
| Power           | : DC 3.7V                | Pol/Phase            | : HORIZONTAL |
| Test Mode       | : Transmitting / Receive | Temperature          | : 25 °C      |
| Test Date       | : Oct. 23, 2014          | Humidity             | : 49 %       |
| Modulation Type | : GFSK (CH77)            | Atmospheric Pressure | : 1010 hPa   |



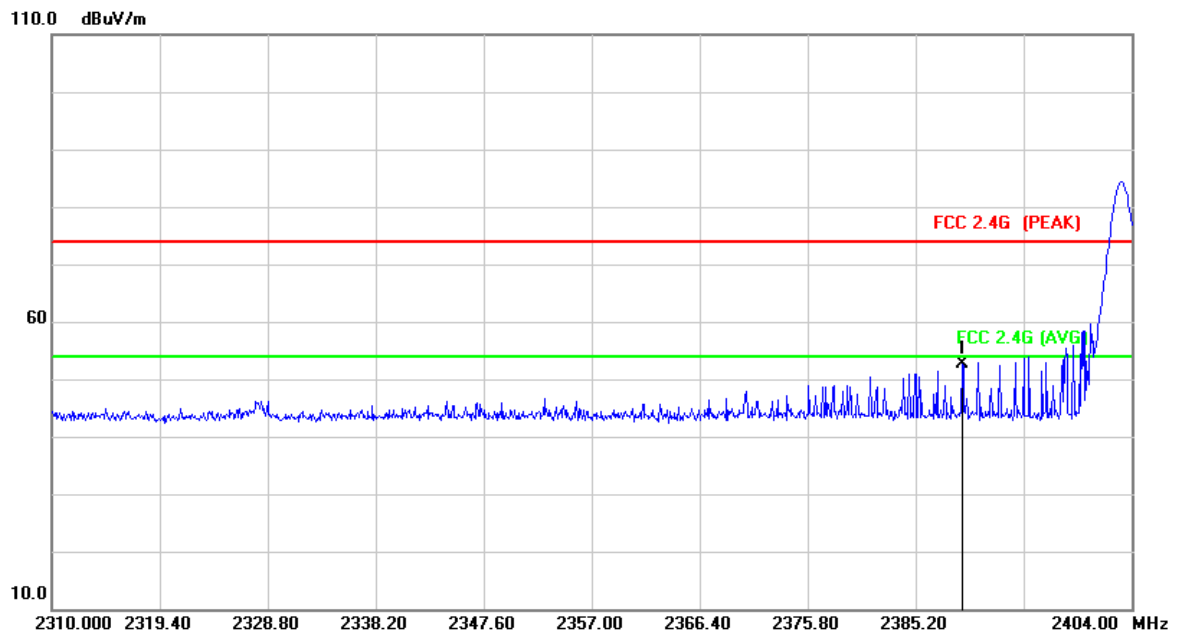
| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (°) | P/F |
|-----|-----------------|---------------|----------------|----------------|----------------|-------------|----------|-------------|-------------|-----|
| 1   | 3028.000        | 1.81          | 47.04          | 48.85          | 74.00          | -25.15      | peak     | 100         | 0           | P   |
| 2   | 3532.000        | 3.65          | 46.61          | 50.26          | 74.00          | -23.74      | peak     | 100         | 0           | P   |
| 3   | 3748.000        | 4.64          | 46.59          | 51.23          | 74.00          | -22.77      | peak     | 100         | 0           | P   |
| 4   | 4156.000        | 5.96          | 45.96          | 51.92          | 74.00          | -22.08      | peak     | 100         | 0           | P   |

Note: Level = Reading + Factor  
Margin = Level – Limit



## 5.5.4. Test Result of Band Edges Measurement

|                 |                          |                      |            |
|-----------------|--------------------------|----------------------|------------|
| Power           | : DC 3.7V                | Pol/Phase            | : VERTICAL |
| Test Mode       | : Transmitting / Receive | Temperature          | : 25 °C    |
| Test Date       | : Oct. 23, 2014          | Humidity             | : 49 %     |
| Modulation Type | : GFSK (CH03)            | Atmospheric Pressure | : 1010 hPa |

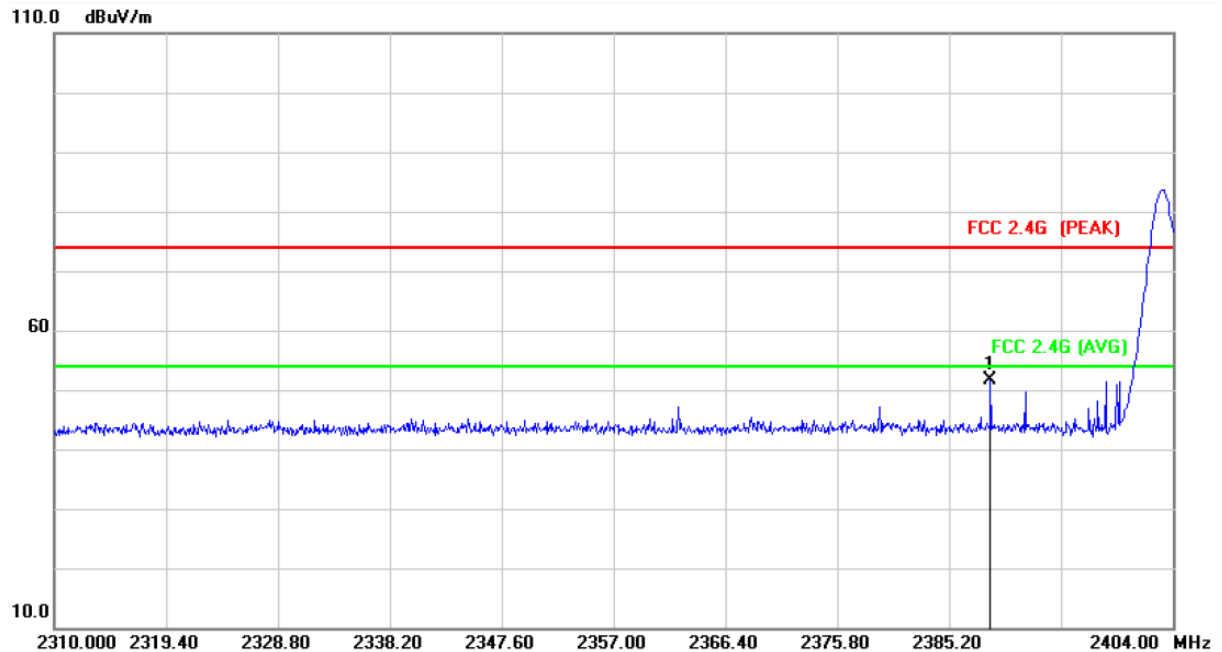


| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (°) | P/F |
|-----|-----------------|---------------|----------------|----------------|----------------|-------------|----------|-------------|-------------|-----|
| 1   | 2389.242        | -1.19         | 53.82          | 52.63          | 74.00          | -21.37      | peak     | 100         | 0           | P   |

Note: Level = Reading + Factor  
Margin = Level – Limit



|                 |                          |                      |              |
|-----------------|--------------------------|----------------------|--------------|
| Power           | : DC 3.7V                | Pol/Phase            | : HORIZONTAL |
| Test Mode       | : Transmitting / Receive | Temperature          | : 25 °C      |
| Test Date       | : Oct. 23, 2014          | Humidity             | : 49 %       |
| Modulation Type | : GFSK (CH03)            | Atmospheric Pressure | : 1010 hPa   |

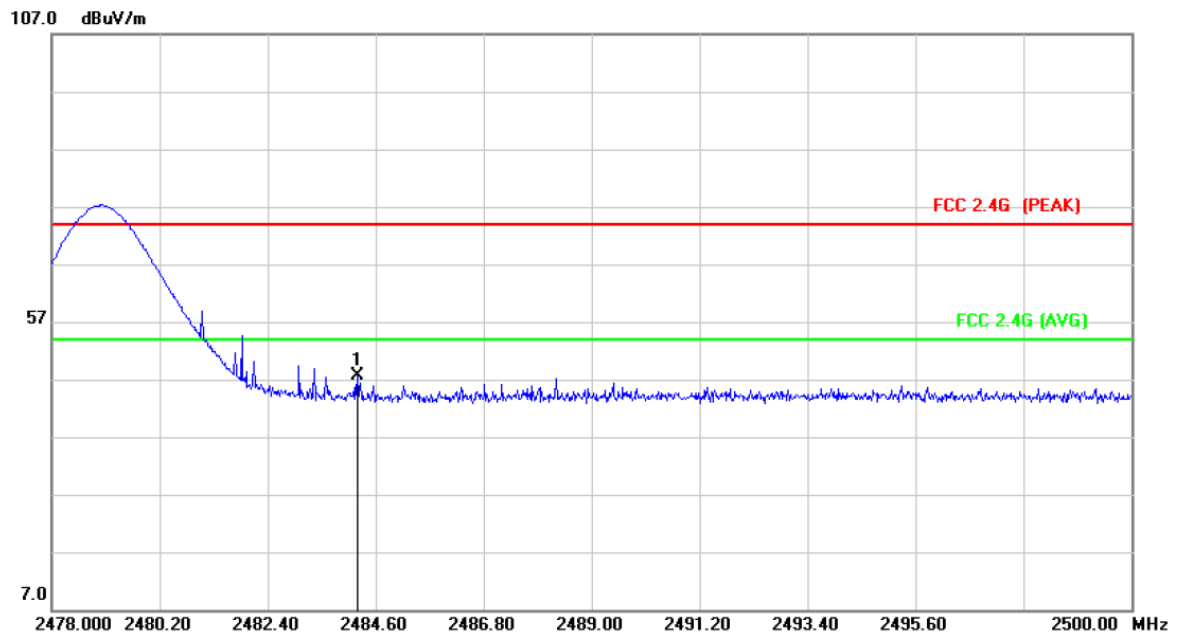


| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (°) | P/F |
|-----|-----------------|---------------|----------------|----------------|----------------|-------------|----------|-------------|-------------|-----|
| 1   | 2388.678        | -1.19         | 52.77          | 51.58          | 74.00          | -22.42      | peak     | 100         | 0           | P   |

Note: Level = Reading + Factor  
Margin = Level – Limit



|                 |                          |                      |            |
|-----------------|--------------------------|----------------------|------------|
| Power           | : DC 3.7V                | Pol/Phase            | : VERTICAL |
| Test Mode       | : Transmitting / Receive | Temperature          | : 25 °C    |
| Test Date       | : Oct. 23, 2014          | Humidity             | : 49 %     |
| Modulation Type | : GFSK (CH77)            | Atmospheric Pressure | : 1010 hPa |

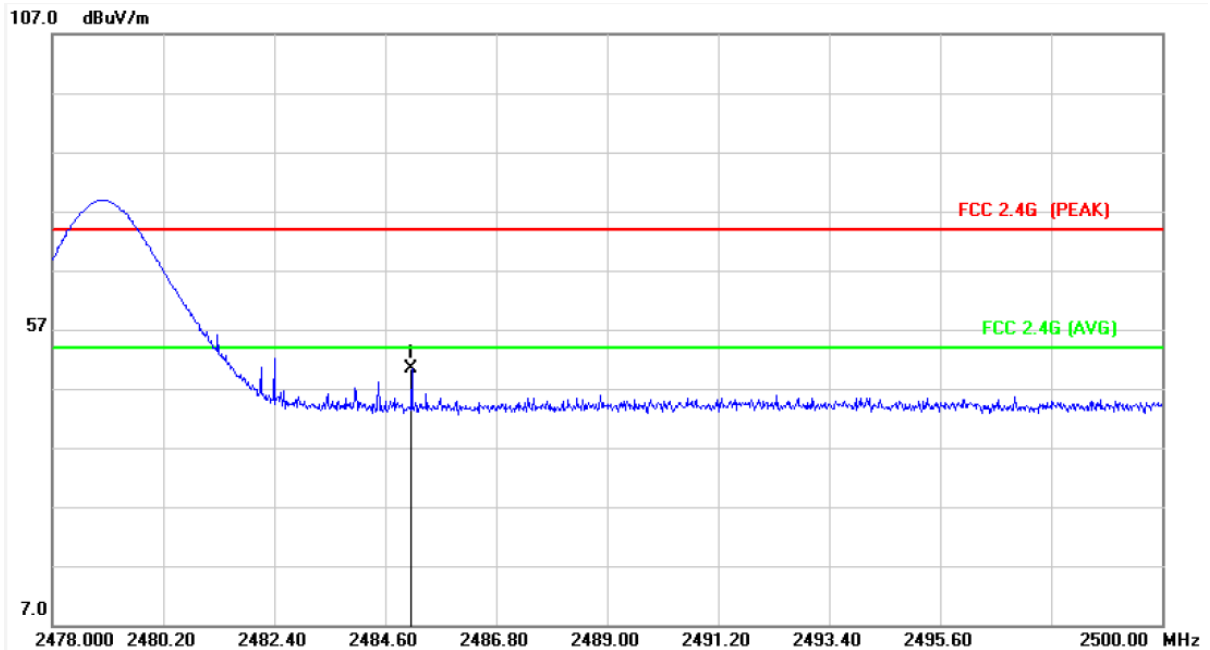


| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (°) | P/F |
|-----|-----------------|---------------|----------------|----------------|----------------|-------------|----------|-------------|-------------|-----|
| 1   | 2484.226        | -0.82         | 48.43          | 47.61          | 74.00          | -26.39      | peak     | 100         | 0           | P   |

Note: Level = Reading + Factor  
Margin = Level – Limit



|                 |                          |                      |              |
|-----------------|--------------------------|----------------------|--------------|
| Power           | : DC 3.7V                | Pol/Phase            | : HORIZONTAL |
| Test Mode       | : Transmitting / Receive | Temperature          | : 25 °C      |
| Test Date       | : Oct. 23, 2014          | Humidity             | : 49 %       |
| Modulation Type | : GFSK (CH77)            | Atmospheric Pressure | : 1010 hPa   |



| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (°) | P/F |
|-----|-----------------|---------------|----------------|----------------|----------------|-------------|----------|-------------|-------------|-----|
| 1   | 2485.128        | -0.82         | 51.17          | 50.35          | 74.00          | -23.65      | peak     | 100         | 0           | P   |

Note: Level = Reading + Factor  
Margin = Level – Limit