



# FCC/IC Radio Test Report

**FCC ID: X5B-PL6422**

**IC: 8814A-PL6422**

This report concerns (check one):  Original Grant  Class II Change

**Issued Date** : Jul. 12, 2013  
**Project No.** : 1306C235  
**Equipment** : AFTERGLOW PS3 WIRELESS  
CONTROLLER  
**Model Name** : PL-6422  
**Applicant** : Performance Designed Products, LLC  
**Address** : 14144 Ventura Blvd. Suite 200, Sherman  
Oaks, CA 91423

**Tested by:** Neutron Engineering Inc. EMC Laboratory

**Date of Receipt:** Jun. 27, 2013

**Date of Test:** Jun. 27, 2013~ Jul. 11, 2013

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## 1. CERTIFICATION

Equipment : AFTERGLOW PS3 WIRELESS CONTROLLER  
Brand Name : AFTERGLOW  
Model Name : PL-6422  
Applicant : Performance Designed Products, LLC  
Manufacturer : Performance Designed Products, LLC  
Address : 14144 Ventura Blvd. Suite 200, Sherman Oaks, CA 91423  
Factory : Performance Designed Products, LLC  
Address : 14144 Ventura Blvd. Suite 200, Sherman Oaks, CA 91423  
Date of Test : Jun. 27, 2013~ Jul. 11, 2013  
Test Item : ENGINEERING SAMPLE  
Standard(s) : FCC Part15, Subpart C(15.247) / ANSI C63.4 : 2009  
FCC Public Notice DA 00-705, March 30, 2000.  
Canada RSS-210:2010  
RSS-GEN Issue 3, Dec 2010

The above equipment has been tested and found compliance with the requirement of the relative standards by Neutron Engineering Inc. EMC Laboratory.  
The test data, data evaluation, and equipment configuration contained in our test report (Ref No. NEI-FICP-1-1306C235) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of TAF according to the ISO-17025 quality assessment standard and technical standard(s).



**2. SUMMARY OF TEST RESULTS**

Test procedures according to the technical standard(s):

| <b>APPLIED STANDARD: 47 CFR Part 15, Subpart C; Canada RSS-210:2010</b> |                           |                                     |          |        |
|---|---------------------------|-------------------------------------|----------|--------|
| Standard(s) Section   |                           | Test Item                           | Judgment | Remark |
| <b>RSS-210<br/>RSS-GEN Issue 3,<br/>Dec 2010</b>                        | <b>47 CFR<br/>Part 15</b> |                                     |          |        |
| RSS-GEN Issue 3, Dec 2010 7.2.4   | 15.207                    | Conducted Emission                  | PASS     |        |
| RSS-210, Issue 8, Annex 8, Section 8.5                                  | 15.247(d)                 | Antenna conducted Spurious Emission | PASS     |        |
| RSS-210, Issue 8, Annex 8, Section A8.1(b)                              | 15.247 (a)(1)             | Hopping Channel Separation          | PASS     |        |
| RSS-210 Annex 8 (A8.1b)   | 15.247 (b)(1)             | Peak Output Power                   | PASS     |        |
| RSS-210, Issue 8, Annex 8, Section 8.5                                  | 15.247(d)<br>15.209       | Radiated Spurious Emission          | PASS     |        |
| RSS-210, Issue 8, Annex 8, Section A8.1(d)                              | 15.247 (a)(1)(iii)        | Number of Hopping Frequency         | PASS     |        |
| RSS-210, Issue 8, Annex 8, Section A8.1(d)                              | 15.247 (a)(1)(iii)        | Dwell Time                          | PASS     |        |
| RSS-GEN Issue 3, Dec 2010 7.2.2   | 15.205                    | Restricted Bands                    | PASS     |        |
| RSS-210, Issue 8, Annex 8, Section A8.4                                 | 15.203                    | Antenna Requirement                 | PASS     |        |

**NOTE:**

- (1) "N/A" denotes test is not applicable in this test report.
- (2) According to FCC Public Notice DA 00-705, March 30, 2000.



**2.1 TEST FACILITY**

The test facilities used to collect the test data in this report is **DG-C02/DG-CB03** at the location of No.3,Jinshagang 1st Road, ShiXia, Dalang Town, Dong Guan, China.523792  
 Neutron's test firm number for FCC 319330

**2.2 MEASUREMENT UNCERTAINTY**

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

The reported uncertainty of measurement  $y \pm U$  where expanded uncertainty **U** is based on a standard uncertainty multiplied by a coverage factor of **k=2**, providing a level of confidence of approximately **95 %**.

A. Conducted Measurement :

| Test Site | Method | Measurement Frequency Range | U , (dB) | NOTE |
|-----------|--------|-----------------------------|----------|------|
| DG-C02    | CISPR  | 150 KHz ~ 30MHz             | 1.94     |      |

B. Radiated Measurement :

| Test Site | Method | Measurement Frequency Range | Ant. H / V | U,(dB) | NOTE |
|-----------|--------|-----------------------------|------------|--------|------|
| DG-CB03   | CISPR  | 9K~30MHz                    | V          | 3.79   |      |
|           |        | 9K~30MHz                    | H          | 3.57   |      |
|           |        | 30MHz ~ 200MHz              | V          | 3.82   |      |
|           |        | 30MHz ~ 200MHz              | H          | 3.60   |      |
|           |        | 200MHz ~ 1,000MHz           | V          | 3.86   |      |
|           |        | 200MHz ~ 1,000MHz           | H          | 3.94   |      |
|           |        | 1GHz~18GHz                  | V          | 3.12   |      |
|           |        | 1GHz~18GHz                  | H          | 3.68   |      |
|           |        | 18GHz~40GHz                 | V          | 4.15   |      |
|           |        | 18GHz~40GHz                 | H          | 4.14   |      |





**3. GENERAL INFORMATION**

**3.1 GENERAL DESCRIPTION OF EUT**

|   |  |                                     |
|---|--|-------------------------------------|
| Equipment   | AFTERGLOW PS3 WIRELESS CONTROLLER  |                                     |
| Brand Name  | AFTERGLOW  |                                     |
| Model Name  | PL-6422  |                                     |
| Model Difference  | N/A  |                                     |
| Product Description   | Operation Frequency:   | 2409~2476 MHz                       |
|   | Modulation Technology:   | GFSK                                |
|   | Bit Rate of Transmitter:   | 1Mbps                               |
|   | Number Of Channel  | 63 CH, Please see note 2. (Page 10) |
|   | Antenna Designation:   | Please see note 3. (Page 10)        |
|   | Antenna Gain(Peak)   |                                     |
|   | Output Power:  | -5.78dBm (Max)                      |
| More details of EUT technical specification, please refer to the User's Manual. |  |                                     |
| Power Source  | #1 DC voltage supplied from USB port.<br>#2 DC voltage supplied from lithium battery.<br>Battery model: PL753074 |                                     |
| Power Rating  | #1 I/P AC 120V/60Hz<br>#2 DC 3.7V 800mAh   |                                     |
| Connecting I/O Port(s)  | Please refer to the User's Manual  |                                     |

**Note:**

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.



2.

| Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) |
|---------|-----------------|---------|-----------------|---------|-----------------|---------|-----------------|
| 01      | 2409            | 17      | 2427            | 33      | 2444            | 49      | 2461            |
| 02      | 2411            | 18      | 2428            | 34      | 2445            | 50      | 2462            |
| 03      | 2412            | 19      | 2429            | 35      | 2446            | 51      | 2463            |
| 04      | 2413            | 20      | 2430            | 36      | 2447            | 52      | 2464            |
| 05      | 2414            | 21      | 2431            | 37      | 2448            | 53      | 2465            |
| 06      | 2415            | 22      | 2432            | 38      | 2449            | 54      | 2466            |
| 07      | 2416            | 23      | 2433            | 39      | 2450            | 55      | 2467            |
| 08      | 2417            | 24      | 2434            | 40      | 2451            | 56      | 2468            |
| 09      | 2418            | 25      | 2435            | 41      | 2452            | 57      | 2469            |
| 10      | 2419            | 26      | 2436            | 42      | 2453            | 58      | 2470            |
| 11      | 2420            | 27      | 2437            | 43      | 2454            | 59      | 2471            |
| 12      | 2421            | 28      | 2438            | 44      | 2455            | 60      | 2473            |
| 13      | 2422            | 29      | 2439            | 45      | 2456            | 61      | 2474            |
| 14      | 2423            | 30      | 2440            | 46      | 2457            | 62      | 2475            |
| 15      | 2425            | 31      | 2441            | 47      | 2459            | 63      | 2476            |
| 16      | 2426            | 32      | 2442            | 48      | 2460            |         |                 |

| Group 1 | Group 2 | Group 3 | Group 4 | Group 5 | Group 6 | Group 7 |
|---------|---------|---------|---------|---------|---------|---------|
| 2411    | 2425    | 2471    | 2434    | 2466    | 2473    | 2462    |
| 2428    | 2475    | 2409    | 2423    | 2409    | 2459    | 2454    |
| 2413    | 2414    | 2428    | 2452    | 2417    | 2409    | 2412    |
| 2466    | 2439    | 2457    | 2432    | 2442    | 2464    | 2444    |
| 2415    | 2449    | 2415    | 2411    | 2460    | 2439    | 2418    |
| 2420    | 2421    | 2426    | 2438    | 2422    | 2419    | 2450    |
| 2454    | 2464    | 2433    | 2465    | 2453    | 2450    | 2429    |
| 2423    | 2451    | 2465    | 2418    | 2430    | 2425    | 2442    |
| 2474    | 2427    | 2437    | 2444    | 2474    | 2432    | 2468    |
| 2431    | 2411    | 2463    | 2421    | 2447    | 2457    | 2440    |
| 2463    | 2456    | 2440    | 2471    | 2434    | 2435    | 2446    |
| 2433    | 2432    | 2442    | 2449    | 2412    | 2442    | 2452    |
| 2440    | 2473    | 2469    | 2436    | 2439    | 2413    | 2434    |
| 2448    | 2418    | 2445    | 2457    | 2445    | 2447    | 2460    |
| 2459    | 2435    | 2448    | 2465    | 2450    | 2470    | 2438    |
| 2426    | 2444    | 2452    | 2416    | 2462    | 2415    | 2473    |
| 2469    | 2460    | 2412    | 2468    | 2420    | 2475    | 2461    |
| 2471    | 2447    | 2455    | 2441    | 2473    | 2422    | 2416    |
| 2417    | 2429    | 2419    | 2426    | 2427    | 2466    | 2409    |
| 2419    | 2467    | 2467    | 2455    | 2469    | 2430    | 2425    |
| 2476    | 2441    | 2474    | 2429    | 2414    | 2455    | 2456    |
| 2451    | 2470    | 2422    | 2446    | 2456    | 2428    | 2421    |
| 2461    | 2453    | 2461    | 2475    | 2437    | 2445    | 2436    |

Note: The EUT 23 channels of each sequence, total 7 sequences are used.

3. Table for Filed Antenna

| Ant. | Brand | Model Name | Antenna Type | Connector | Gain (dBi) |
|------|-------|------------|--------------|-----------|------------|
| 1    | N/A   | N/A        | Printed      | N/A       | 0          |



**3.2 DESCRIPTION OF TEST MODES**

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

| Pretest Mode | Description             |
|--------------|-------------------------|
| Mode 1       | TX Mode <b>NOTE (1)</b> |
| Mode 2       | Wireless                |

The EUT system operated these modes were found to be the worst case during the pre-scanning test as following:

| For Conducted Emission |             |
|------------------------|-------------|
| Final Test Mode        | Description |
| Mode 2                 | Wireless    |

| For Radiated Emission |                         |
|-----------------------|-------------------------|
| Final Test Mode       | Description             |
| Mode 1                | TX Mode <b>NOTE (1)</b> |

**Note:**

(1) The measurements are performed at the high, middle, low available channels.

**3.3 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING**

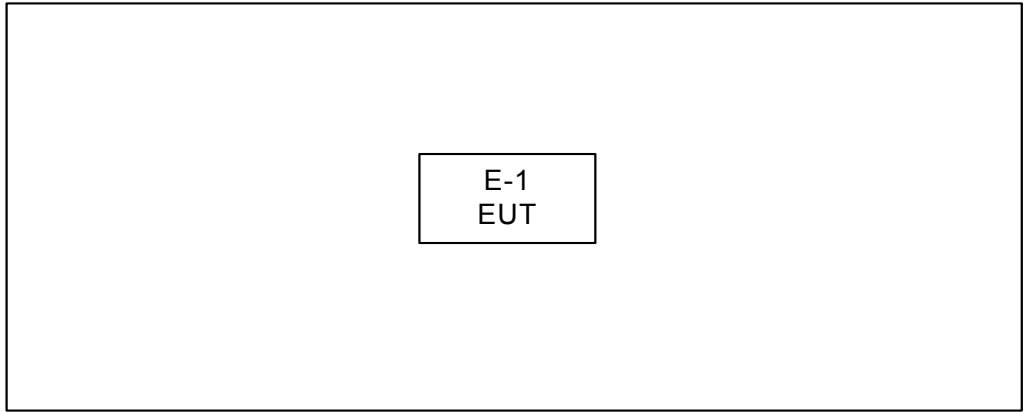
During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters of FHSS

| Test software version | Bluetest |         |         |
|-----------------------|----------|---------|---------|
| Frequency             | 2409MHz  | 2440MHz | 2476MHz |
| Parameters-1Mbps      | N/A      | N/A     | N/A     |

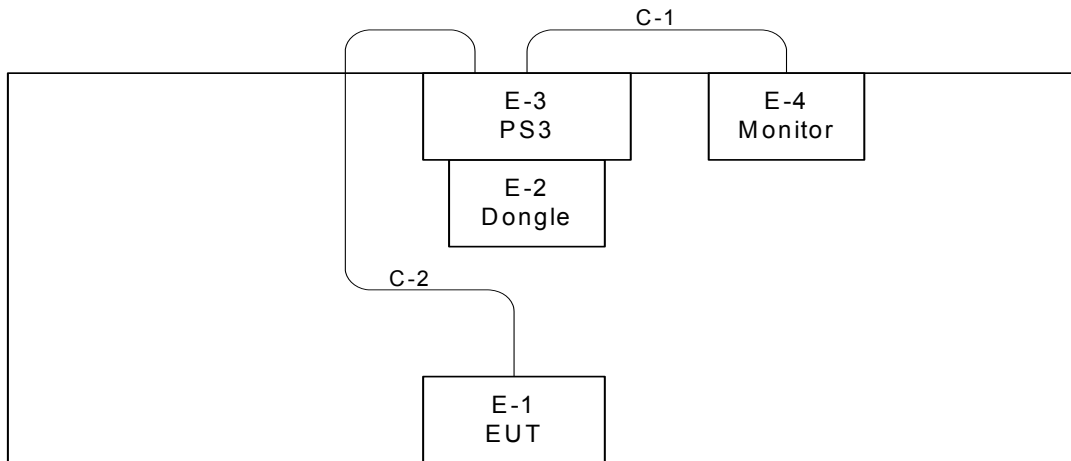


**3.4 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED**

**Radiated:**



**Conducted:**



C-1: AV Cable  
C-2: USB Cable



**3.5 DESCRIPTION OF SUPPORT UNITS**

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

| Item | Equipment                         | Mfr/Brand | Model/Type No. | FCC ID       | Series No.                             | Note |
|------|-----------------------------------|-----------|----------------|--------------|--|------|
| E-1  | AFTERGLOW PS3 WIRELESS CONTROLLER | AFTERGLOW | PL-6422        | X5B- PL6422  | N/A                                    | EUT  |
| E-2  | AFTERGLOW PS3 WIRELESS DONGLE     | AFTERGLOW | PL-6422        | X5B- PL6422A | N/A                                    |      |
| E-3  | Playstation 3                     | SONY      | CECHH12        | DOC          | 02-27432691-8<br>924521-CECH<br>H12 CW |      |
| E-4  | LCD monitor                       | DELL      | E177FPc        | DOC          | CNOFJ179-641<br>80-6AG-1WNS            |      |

| Item | Shielded Type | Ferrite Core | Length | Note |
|------|---------------|--------------|--------|------|
| C-1  | NO            | NO           | 2.3m   |      |
| C-2  | YES           | YES          | 1m     |      |

Note:

- (1) For detachable type I/O cable should be specified the length in m in 『Length』 column.



**4. EMC EMISSION TEST**

**4.1 CONDUCTED EMISSION MEASUREMENT**

**4.1.1 POWER LINE CONDUCTED EMISSION Limits (Frequency Range 150KHz-30MHz)**

| FREQUENCY (MHz) | Class A (dBuV) |         | Class B (dBuV) |           | Standard |
|-----------------|----------------|---------|----------------|-----------|----------|
|                 | Quasi-peak     | Average | Quasi-peak     | Average   |          |
| 0.15 -0.5       | 79.00          | 66.00   | 66 - 56 *      | 56 - 46 * | CISPR    |
| 0.50 -5.0       | 73.00          | 60.00   | 56.00          | 46.00     | CISPR    |
| 5.0 -30.0       | 73.00          | 60.00   | 60.00          | 50.00     | CISPR    |

|           |       |       |           |           |     |
|-----------|-------|-------|-----------|-----------|-----|
| 0.15 -0.5 | 79.00 | 66.00 | 66 - 56 * | 56 - 46 * | FCC |
| 0.50 -5.0 | 73.00 | 60.00 | 56.00     | 46.00     | FCC |
| 5.0 -30.0 | 73.00 | 60.00 | 60.00     | 50.00     | FCC |

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " \* " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

**4.1.2 MEASUREMENT INSTRUMENTS LIST AND SETTING**

| Item | Kind of Equipment | Manufacturer | Type No. | Serial No. | Calibrated until |
|------|-------------------|--------------|----------|------------|------------------|
| 1    | LISN              | EMCO         | 3816/2   | 00052765   | Apr. 25, 2014    |
| 2    | LISN              | R&S          | ENV216   | 100087     | Nov.16.2013      |
| 3    | Test Cable        | N/A          | C_17     | N/A        | Mar.15.2014      |
| 4    | EMI TEST RECEIVER | R&S          | ESCS30   | 826547/022 | Apr. 25, 2014    |
| 5    | 50Ω Terminator    | SHX          | TF2-3G-A | 08122902   | Apr. 25, 2014    |

Remark: "N/A" denotes no model name, serial no. or calibration specified.

All calibration period of Equipment List is One Year.

The following table is the setting of the receiver

| Receiver Parameters | Setting  |
|---------------------|----------|
| Attenuation         | 10 dB    |
| Start Frequency     | 0.15 MHz |
| Stop Frequency      | 30 MHz   |
| IF Bandwidth        | 9 kHz    |

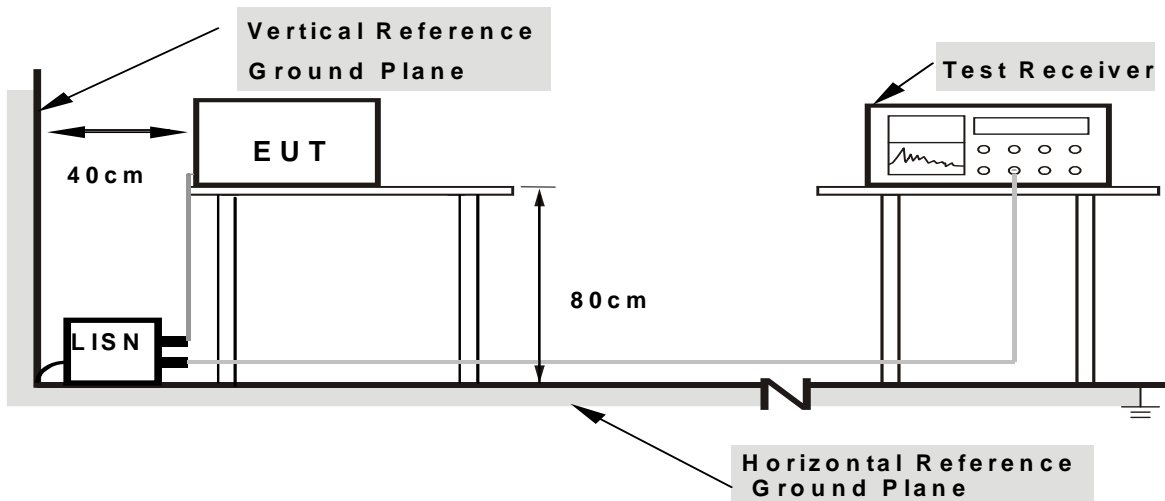
#### 4.1.3 TEST PROCEDURE

- The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- LISN at least 80 cm from nearest part of EUT chassis.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

#### 4.1.4 DEVIATION FROM TEST STANDARD

No deviation

#### 4.1.5 TEST SETUP



**Note: 1. Support units were connected to second LISN.**

**2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes**

#### 4.1.6 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

The EUT is continued Transmitter/Receive data or Hopping on mode.



#### 4.1.7 TEST RESULTS

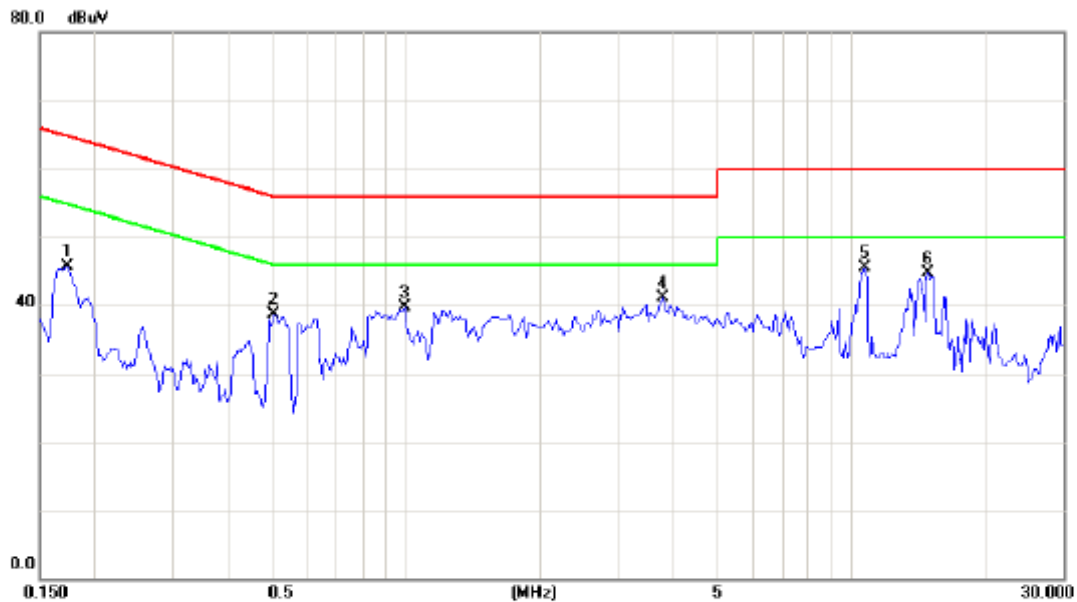
Remark

- (1) All readings are QP Mode value unless otherwise stated AVG in column of "Note". If the QP Mode Measured value compliance with the QP Limits and lower than AVG Limits, the EUT shall be deemed to meet both QP & AVG Limits and then only QP Mode was measured, but AVG Mode didn't perform. In this case, a " \* " marked in AVG Mode column of Interference Voltage Measured.
- (2) Measuring frequency range from 150KHz to 30MHz.
- (3) " N/A" denotes test is not applicable in this test report.





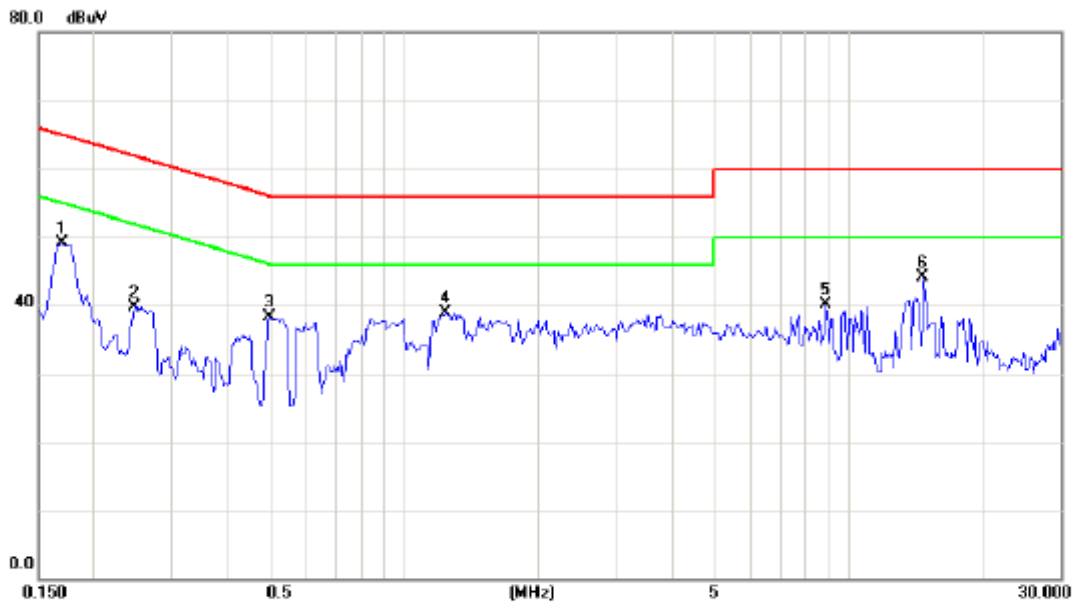
|              |                                      |                    |         |
|--------------|--------------------------------------|--------------------|---------|
| EUT:         | AFTERGLOW PS3<br>WIRELESS CONTROLLER | Model Name:        | PL-6422 |
| Temperature: | 26 °C                                | Relative Humidity: | 53 %    |
| Test Power:  | AC 120V/60Hz                         | Phase:             | Line    |
| Test Mode:   | Wireless                             |                    |         |



| No. Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV | Limit<br>dBuV | Over<br>dB | Detector | Comment |
|---------|--------------|--------------------------|-------------------------|--------------------------|---------------|------------|----------|---------|
| 1       | 0.1733       | 36.02                    | 9.72                    | 45.74                    | 64.80         | -19.06     | peak     |         |
| 2       | 0.5051       | 28.99                    | 9.75                    | 38.74                    | 56.00         | -17.26     | peak     |         |
| 3       | 0.9937       | 29.98                    | 9.78                    | 39.76                    | 56.00         | -16.24     | peak     |         |
| 4       | 3.7734       | 31.26                    | 9.90                    | 41.16                    | 56.00         | -14.84     | peak     |         |
| 5 *     | 10.7330      | 35.42                    | 10.07                   | 45.49                    | 60.00         | -14.51     | peak     |         |
| 6       | 14.8280      | 34.52                    | 10.14                   | 44.66                    | 60.00         | -15.34     | peak     |         |



|              |                                      |                    |            |
|--------------|--------------------------------------|--------------------|------------|
| EUT:         | AFTERGLOW PS3<br>WIRELESS CONTROLLER | Model Name:        | PL-6422    |
| Temperature: | 26 °C                                | Relative Humidity: | 53 %       |
| Test Power:  | AC 120V/60Hz                         | Phase:             | Horizontal |
| Test Mode:   | Wireless                             |                    |            |



| No. Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV | Limit<br>dBuV | Over<br>dB | Detector | Comment |
|---------|--------------|--------------------------|-------------------------|--------------------------|---------------|------------|----------|---------|
| 1       | 0.1695       | 39.30                    | 9.72                    | 49.02                    | 64.98         | -15.96     | peak     |         |
| 2       | 0.2474       | 29.97                    | 9.72                    | 39.69                    | 61.84         | -22.15     | peak     |         |
| 3       | 0.4974       | 28.47                    | 9.75                    | 38.22                    | 56.04         | -17.82     | peak     |         |
| 4       | 1.2360       | 29.17                    | 9.82                    | 38.99                    | 56.00         | -17.01     | peak     |         |
| 5       | 8.8750       | 29.96                    | 10.05                   | 40.01                    | 60.00         | -19.99     | peak     |         |
| 6 *     | 14.7187      | 33.91                    | 10.20                   | 44.11                    | 60.00         | -15.89     | peak     |         |



**4.2 RADIATED EMISSION MEASUREMENT**

**4.2.1 RADIATED EMISSION LIMITS (Frequency Range 9kHz-1000MHz)**

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

| Frequencies (MHz) | Field Strength (micorvolts/meter) | Measurement Distance (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                             |

**LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)**

| FREQUENCY (MHz) | (dBuV/m) (at 3M) |         |
|-----------------|------------------|---------|
|                 | PEAK             | AVERAGE |
| Above 1000      | 74               | 54      |

Notes:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

**FREQUENCY RANGE OF RADIATED MEASUREMENT (For unintentional radiators)**

| Highest frequency generated or Upper frequency of measurement used in the device or on which the device operates or tunes (MHz) | Range (MHz)   |
|---|---|
| Below 1.705   | 30  |
| 1.705 – 108   | 1000  |
| 108 – 500   | 2000  |
| 500 – 1000  | 5000  |
| Above 1000  | 5 <sup>th</sup> harmonic of the highest frequency or 40 GHz, whichever is lower |



**4.2.2 MEASUREMENT INSTRUMENTS LIST AND SETTING**

| Item | Kind of Equipment       | Manufacturer | Type No.  | Serial No. | Calibrated until |
|------|-------------------------|--------------|-----------|------------|------------------|
| 1    | Antenna                 | Schwarbeck   | VULB9160  | 9160-3232  | Apr. 25, 2014    |
| 2    | Amplifier               | HP           | 8447D     | 2944A09673 | Apr. 25, 2014    |
| 3    | Test Receiver           | R&S          | ESCI      | 100382     | Apr. 25, 2014    |
| 4    | Test Cable              | N/A          | C-01_CB03 | N/A        | Jun.30.2014      |
| 5    | Antenna                 | ETS          | 3115      | 00075789   | Apr. 25, 2014    |
| 6    | Amplifier               | Agilent      | 8449B     | 3008A02274 | Apr. 25, 2014    |
| 7    | Spectrum                | Agilent      | E4408B    | US39240143 | Nov. 16.2013     |
| 8    | Test Cable              | HUBER+SUHNER | C-45      | N/A        | Apr. 30, 2014    |
| 9    | Controller              | CT           | SC100     | N/A        | N/A              |
| 10   | Active Loop Antenna     | R&S          | HFH2-Z2   | 830749/020 | Apr. 25, 2014    |
| 11   | Broad-Band Horn Antenna | Schwarzbeck  | BBHA 9170 | 9170319    | Oct.12.2013      |
| 12   | Horn Antenna            | EMCO         | 3115      | 9605-4803  | Apr. 25, 2014    |

Remark: "N/A" denotes no model name, serial no. or calibration specified.  
 All calibration period of Equipment List is One Year.

| Spectrum Parameter | Setting               |
|--------------------|-----------------------|
| Attenuation        | Auto                  |
| Start Frequency    | 1000 MHz              |
| Stop Frequency     | 10th carrier harmonic |

| Receiver Parameter     | Setting                           |
|------------------------|-----------------------------------|
| Attenuation            | Auto                              |
| Start ~ Stop Frequency | 9kHz~90kHz for PK/AVG detector    |
| Start ~ Stop Frequency | 90kHz~110kHz for QP detector      |
| Start ~ Stop Frequency | 110kHz~490kHz for PK/AVG detector |
| Start ~ Stop Frequency | 490kHz~30MHz for QP detector      |
| Start ~ Stop Frequency | 30MHz~1000MHz for QP detector     |



#### **4.2.3 TEST PROCEDURE**

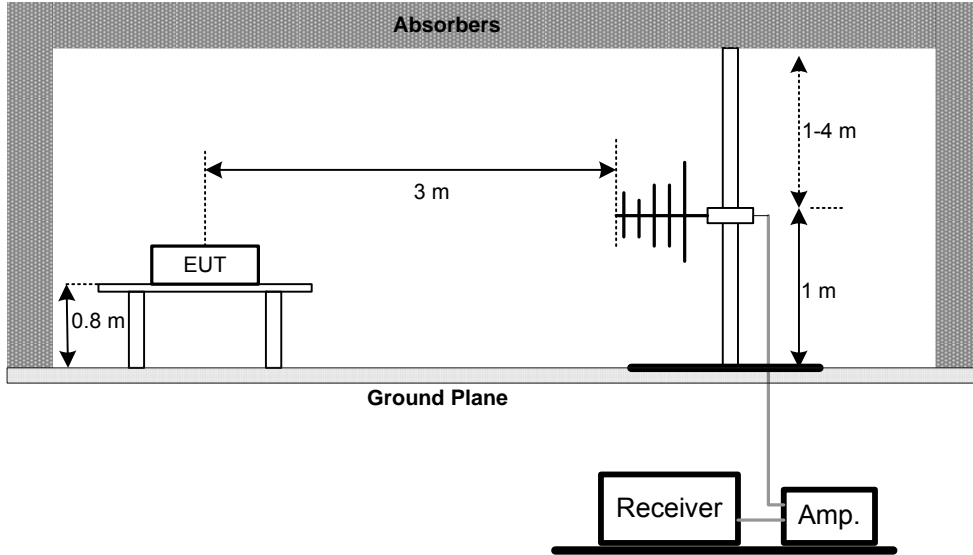
- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(above 1GHz)
- c. The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos.

#### **4.2.4 DEVIATION FROM TEST STANDARD**

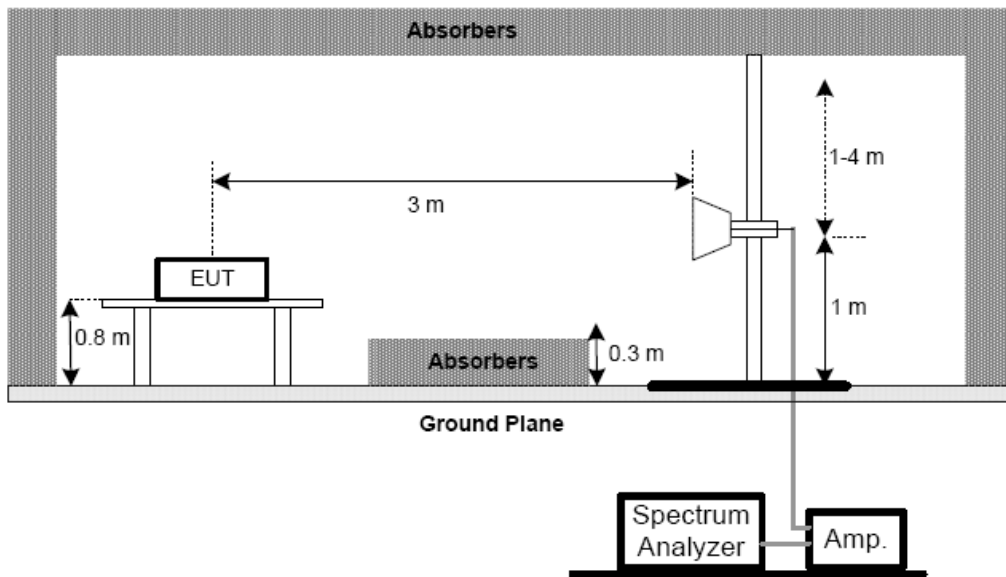
No deviation

**4.2.5 TEST SETUP**

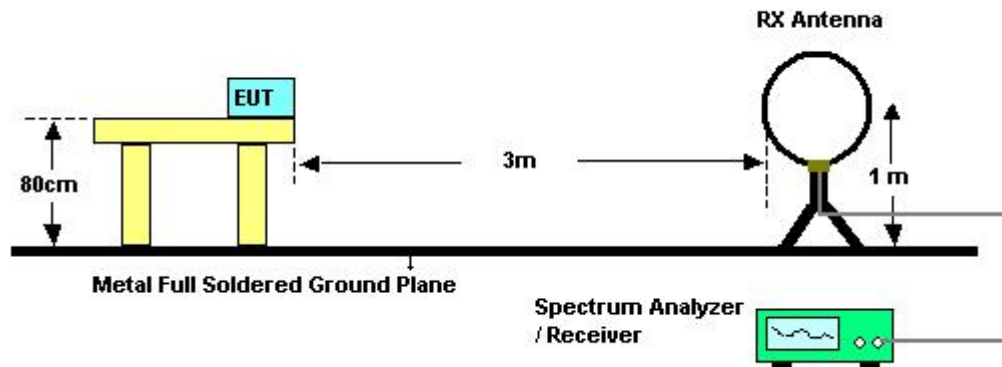
(A) Radiated Emission Test Set-Up Frequency Below 1 GHz



(B) Radiated Emission Test Set-Up Frequency Above 1 GHz



(C) For radiated emissions below 30MHz



#### 4.2.6 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.



**4.2.7 TEST RESULTS (BELOW 30MHZ)**

|               |                                      |                     |              |
|---------------|--------------------------------------|---------------------|--------------|
| EUT :         | AFTERGLOW PS3<br>WIRELESS CONTROLLER | Model Name :        | PL-6422      |
| Temperature : | 25 °C                                | Relative Humidity : | 58 %         |
| Pressure :    | 1010 hPa                             | Test Voltage :      | AC 120V/60Hz |
| Test Mode :   | TX MODE                              |                     |              |

| Freq. (MHz) | Ant. 0°/90° | Reading(RA) (dBuV) | Corr.Factor(CF) (dB) | Measured(FS) (dBuV/m) | Limits(QP) (dBuV/m) | Margin (dB) | Note |
|-------------|-------------|--------------------|----------------------|-----------------------|---------------------|-------------|------|
| 0.0086      | 0°          | 25.18              | 24.30                | 49.48                 | 128.91              | -79.43      | AVG  |
| 0.0086      | 0°          | 29.29              | 24.30                | 53.59                 | 148.91              | -95.32      | PK   |
| 0.0257      | 0°          | 21.57              | 23.94                | 45.51                 | 119.40              | -73.89      | AVG  |
| 0.0257      | 0°          | 24.84              | 23.94                | 48.78                 | 139.40              | -90.62      | PK   |
| 0.0386      | 0°          | 21.18              | 23.12                | 44.30                 | 115.87              | -71.57      | AVG  |
| 0.0386      | 0°          | 24.54              | 23.12                | 47.66                 | 135.87              | -88.21      | PK   |
| 0.0634      | 0°          | 18.37              | 22.13                | 40.50                 | 111.56              | -71.06      | AVG  |
| 0.0634      | 0°          | 23.24              | 22.13                | 45.37                 | 131.56              | -86.19      | PK   |
| 0.2683      | 0°          | 20.57              | 20.36                | 40.93                 | 99.03               | -58.11      | AVG  |
| 0.2683      | 0°          | 22.54              | 20.36                | 42.90                 | 119.03              | -76.14      | PK   |
| 1.4697      | 0°          | 27.74              | 19.55                | 47.29                 | 64.26               | -16.97      | QP   |

| Freq. (MHz) | Ant. 0°/90° | Reading(RA) (dBuV) | Corr.Factor(CF) (dB) | Measured(FS) (dBuV/m) | Limits(QP) (dBuV/m) | Margin (dB) | Note |
|-------------|-------------|--------------------|----------------------|-----------------------|---------------------|-------------|------|
| 0.0092      | 90°         | 19.75              | 24.30                | 44.05                 | 128.29              | -84.24      | AVG  |
| 0.0092      | 90°         | 20.74              | 24.30                | 45.04                 | 148.29              | -103.25     | PK   |
| 0.0228      | 90°         | 15.27              | 24.12                | 39.39                 | 120.43              | -81.04      | AVG  |
| 0.0228      | 90°         | 17.33              | 24.12                | 41.45                 | 140.43              | -98.98      | PK   |
| 0.0462      | 90°         | 18.52              | 22.64                | 41.16                 | 114.32              | -73.15      | AVG  |
| 0.0462      | 90°         | 21.15              | 22.64                | 43.79                 | 134.32              | -90.52      | PK   |
| 0.0776      | 90°         | 21.36              | 21.85                | 43.21                 | 109.80              | -66.60      | AVG  |
| 0.0776      | 90°         | 22.97              | 21.85                | 44.82                 | 129.80              | -84.99      | PK   |
| 0.3743      | 90°         | 21.45              | 20.10                | 41.55                 | 96.14               | -54.59      | AVG  |
| 0.3743      | 90°         | 24.63              | 20.10                | 44.73                 | 116.14              | -71.41      | PK   |
| 1.6988      | 90°         | 25.28              | 19.53                | 44.81                 | 63.00               | -18.19      | QP   |

Remark :

- (1) The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported ◦
- (2) Distance extrapolation factor = 40 log (specific distance / test distance) (dB); ◦
- (3) Limit line = specific limits (dBuV) + distance extrapolation factor. ◦





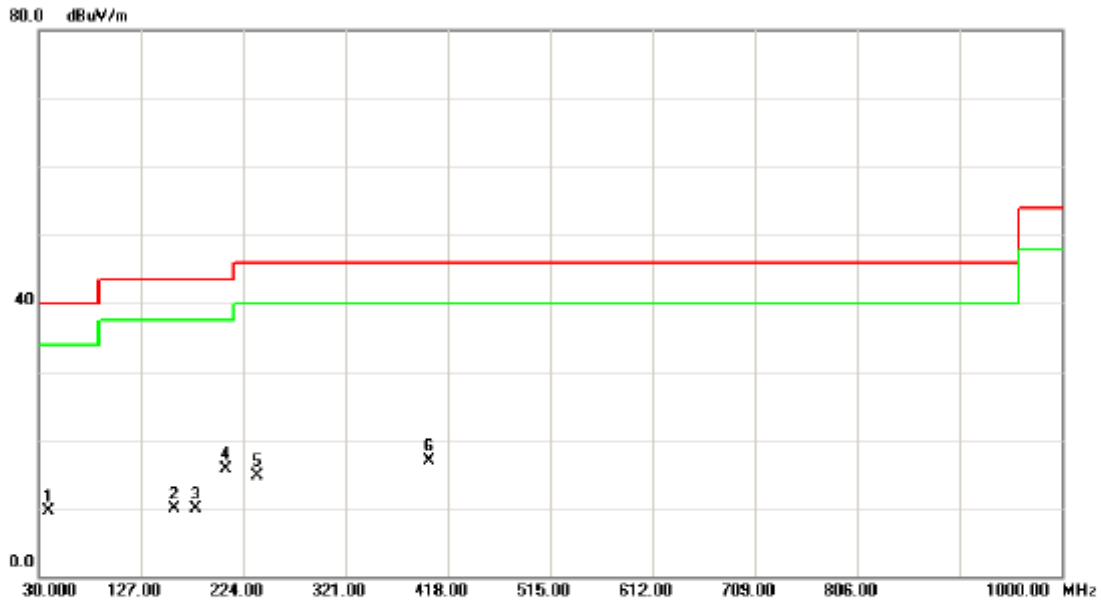
#### 4.2.8 TEST RESULTS (BETWEEN 30 – 1000 MHZ)

Remark :

- (1) Reading in which marked as QP or Peak means measurements by using are Quasi-Peak Mode or Peak Mode with Detector BW=120KHz ; SPA setting in RBW=120KHz, VBW =120KHz, Swp. Time = 0.3 sec./MHz.
- (2) All readings are Peak unless otherwise stated QP in column of 『Note』 . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
- (3) Measuring frequency range from 30MHz to 1000MHz.
- (4) If the peak scan value lower limit more than 20dB, then this signal data does not show in table.



|               |                                   |                     |          |
|---------------|-----------------------------------|---------------------|----------|
| EUT :         | AFTERGLOW PS3 WIRELESS CONTROLLER | Model Name :        | PL-6422  |
| Temperature : | 25 °C                             | Relative Humidity : | 58 %     |
| Pressure :    | 1010 hPa                          | Test Voltage :      | DC 3.7V  |
| Test Mode :   | TX Mode 2409MHz                   | Polarization:       | Vertical |

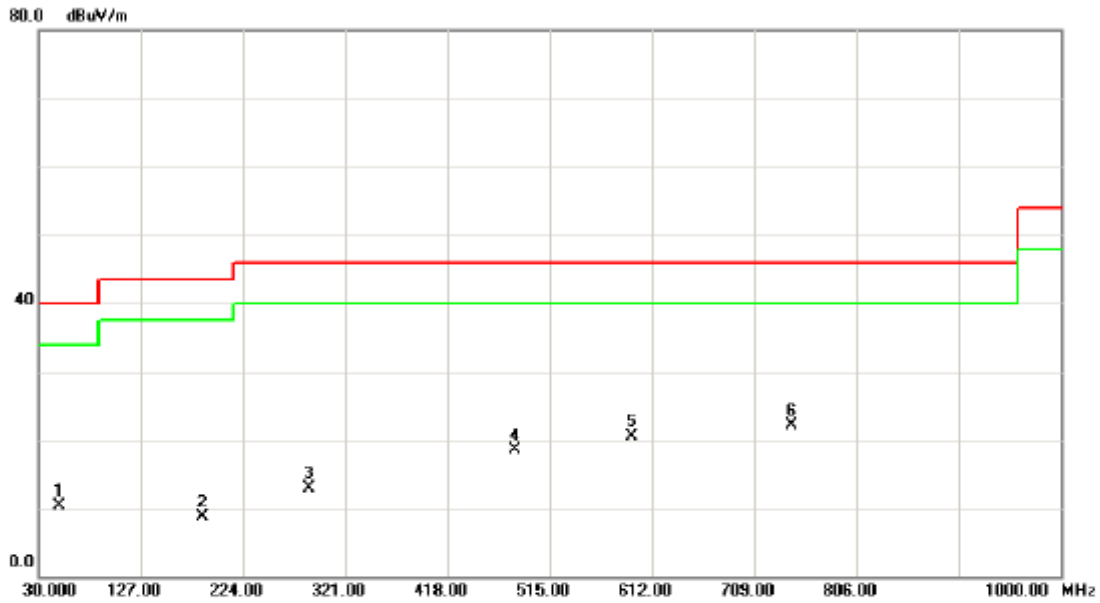


| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV/m | Limit<br>dBuV/m | Over<br>dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|-----------------|------------|----------|---------|
| 1   |     | 39.7000      | 27.16                    | -17.66                  | 9.50                       | 40.00           | -30.50     | peak     |         |
| 2   |     | 159.0100     | 29.06                    | -19.19                  | 9.87                       | 43.50           | -33.63     | peak     |         |
| 3   |     | 179.3800     | 28.56                    | -18.56                  | 10.00                      | 43.50           | -33.50     | peak     |         |
| 4   | *   | 207.5100     | 33.90                    | -18.17                  | 15.73                      | 43.50           | -27.77     | peak     |         |
| 5   |     | 237.5800     | 32.02                    | -17.22                  | 14.80                      | 46.00           | -31.20     | peak     |         |
| 6   |     | 400.5400     | 28.55                    | -11.63                  | 16.92                      | 46.00           | -29.08     | peak     |         |



# Neutron Engineering Inc.

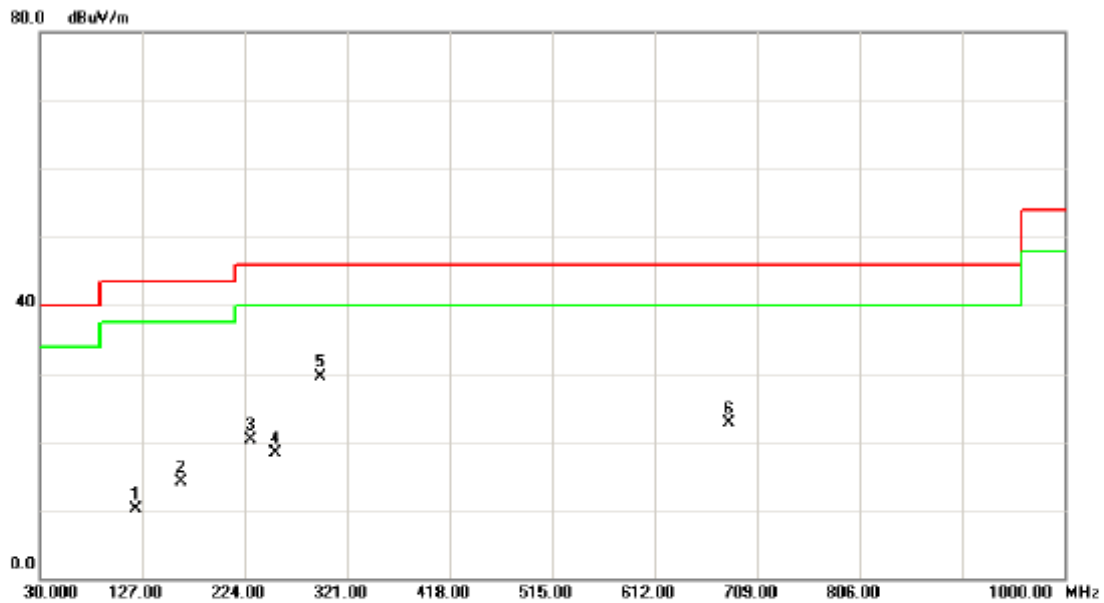
|               |                                   |                     |            |
|---------------|-----------------------------------|---------------------|------------|
| EUT :         | AFTERGLOW PS3 WIRELESS CONTROLLER | Model Name :        | PL-6422    |
| Temperature : | 25 °C                             | Relative Humidity : | 58 %       |
| Pressure :    | 1010 hPa                          | Test Voltage :      | DC 3.7V    |
| Test Mode :   | TX Mode 2409MHz                   | Polarization:       | Horizontal |



| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV/m | Limit<br>dBuV/m | Over<br>dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|-----------------|------------|----------|---------|
| 1   |     | 49.4000      | 28.59                    | -18.20                  | 10.39                      | 40.00           | -29.61     | peak     |         |
| 2   |     | 186.1700     | 27.17                    | -18.46                  | 8.71                       | 43.50           | -34.79     | peak     |         |
| 3   |     | 286.0800     | 27.22                    | -14.39                  | 12.83                      | 46.00           | -33.17     | peak     |         |
| 4   |     | 482.0200     | 29.02                    | -10.61                  | 18.41                      | 46.00           | -27.59     | peak     |         |
| 5   |     | 592.6000     | 28.45                    | -7.88                   | 20.57                      | 46.00           | -25.43     | peak     |         |
| 6   | *   | 744.8900     | 28.79                    | -6.77                   | 22.02                      | 46.00           | -23.98     | peak     |         |



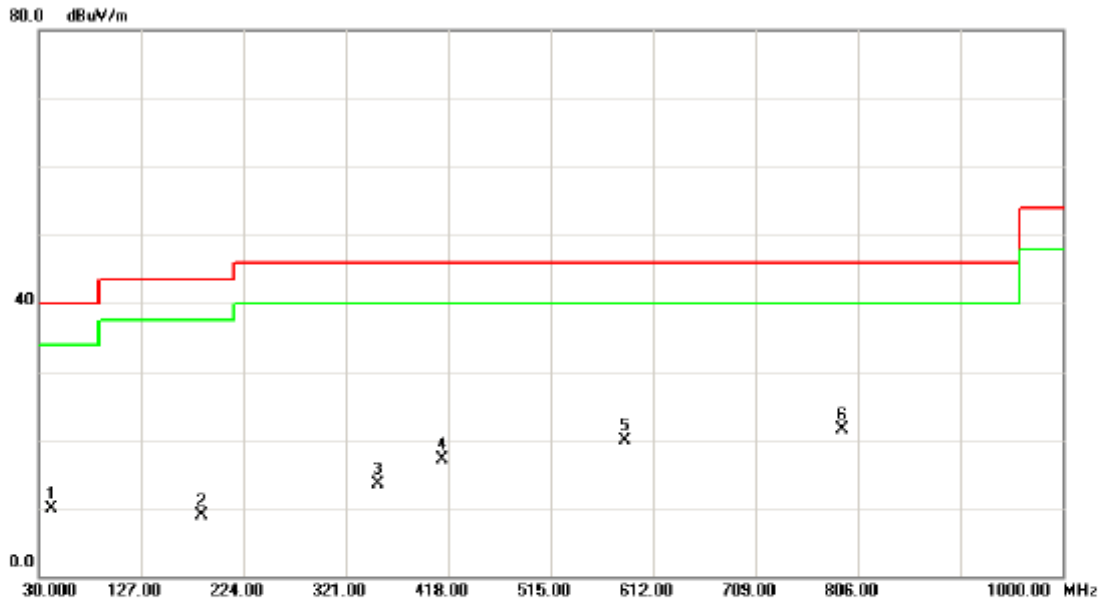
|               |                                   |                     |          |
|---------------|-----------------------------------|---------------------|----------|
| EUT :         | AFTERGLOW PS3 WIRELESS CONTROLLER | Model Name :        | PL-6422  |
| Temperature : | 25 °C                             | Relative Humidity : | 58 %     |
| Pressure :    | 1010 hPa                          | Test Voltage :      | DC 3.7V  |
| Test Mode :   | TX Mode 2440MHz                   | Polarization:       | Vertical |



| No. Mk. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measurement dBuV/m | Limit dBuV/m | Over dB | Detector | Comment |
|---------|-----------|--------------------|-------------------|--------------------|--------------|---------|----------|---------|
| 1       | 121.1800  | 29.78              | -19.62            | 10.16              | 43.50        | -33.34  | peak     |         |
| 2       | 163.8600  | 33.18              | -19.07            | 14.11              | 43.50        | -29.39  | peak     |         |
| 3       | 229.8200  | 37.81              | -17.47            | 20.34              | 46.00        | -25.66  | peak     |         |
| 4       | 253.1000  | 34.57              | -16.30            | 18.27              | 46.00        | -27.73  | peak     |         |
| 5 *     | 295.7800  | 43.63              | -14.21            | 29.42              | 46.00        | -16.58  | peak     |         |
| 6       | 682.8100  | 29.71              | -7.04             | 22.67              | 46.00        | -23.33  | peak     |         |



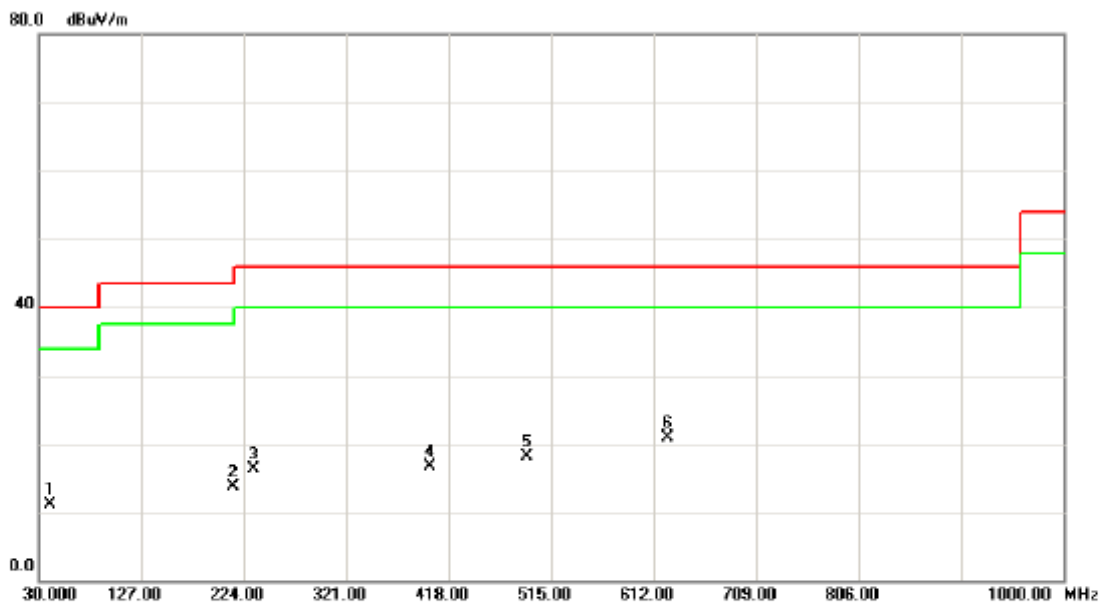
|               |                                   |                     |            |
|---------------|-----------------------------------|---------------------|------------|
| EUT :         | AFTERGLOW PS3 WIRELESS CONTROLLER | Model Name :        | PL-6422    |
| Temperature : | 25 °C                             | Relative Humidity : | 58 %       |
| Pressure :    | 1010 hPa                          | Test Voltage :      | DC 3.7V    |
| Test Mode :   | TX Mode 2440MHz                   | Polarization:       | Horizontal |



| No. Mk. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measurement dBuV/m | Limit dBuV/m | Over dB | Detector | Comment |
|---------|-----------|--------------------|-------------------|--------------------|--------------|---------|----------|---------|
| 1       | 41.6400   | 27.45              | -17.54            | 9.91               | 40.00        | -30.09  | peak     |         |
| 2       | 184.2300  | 27.39              | -18.48            | 8.91               | 43.50        | -34.59  | peak     |         |
| 3       | 351.0700  | 26.73              | -13.21            | 13.52              | 46.00        | -32.48  | peak     |         |
| 4       | 412.1800  | 28.48              | -11.47            | 17.01              | 46.00        | -28.99  | peak     |         |
| 5       | 585.8100  | 28.01              | -8.01             | 20.00              | 46.00        | -26.00  | peak     |         |
| 6 *     | 791.4500  | 27.74              | -6.29             | 21.45              | 46.00        | -24.55  | peak     |         |



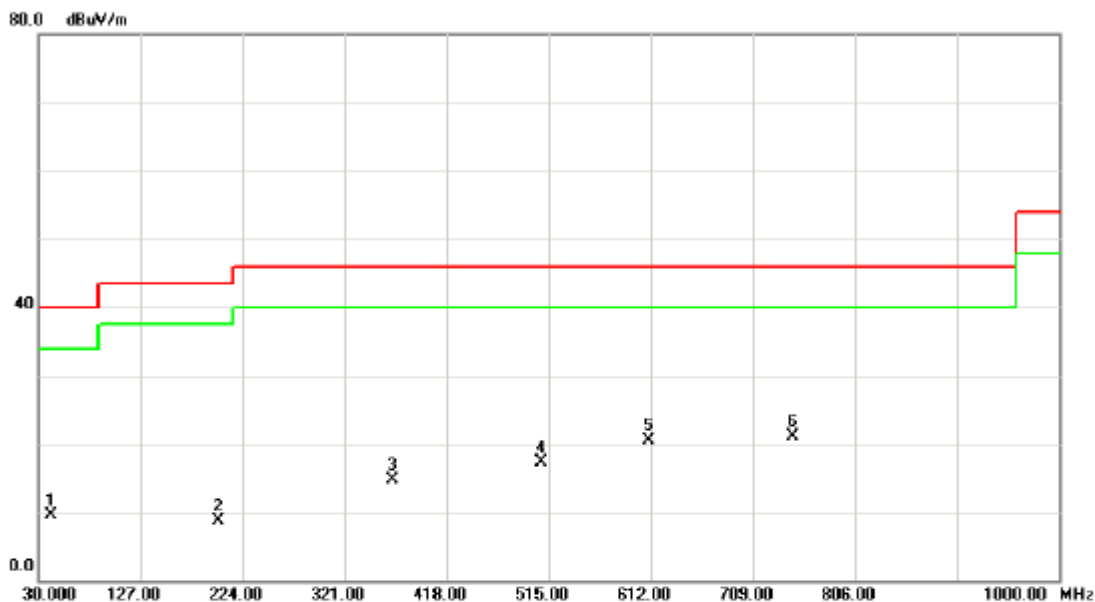
|               |                                   |                     |          |
|---------------|-----------------------------------|---------------------|----------|
| EUT :         | AFTERGLOW PS3 WIRELESS CONTROLLER | Model Name :        | PL-6422  |
| Temperature : | 25 °C                             | Relative Humidity : | 58 %     |
| Pressure :    | 1010 hPa                          | Test Voltage :      | DC 3.7V  |
| Test Mode :   | TX Mode 2476MHz                   | Polarization:       | Vertical |



| No. Mk. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measurement dBuV/m | Limit dBuV/m | Over dB | Detector | Comment |
|---------|-----------|--------------------|-------------------|--------------------|--------------|---------|----------|---------|
| 1       | 40.6700   | 28.67              | -17.59            | 11.08              | 40.00        | -28.92  | peak     |         |
| 2       | 214.3000  | 31.57              | -17.95            | 13.62              | 43.50        | -29.88  | peak     |         |
| 3       | 233.7000  | 33.56              | -17.35            | 16.21              | 46.00        | -29.79  | peak     |         |
| 4       | 400.5400  | 28.43              | -11.63            | 16.80              | 46.00        | -29.20  | peak     |         |
| 5       | 492.6900  | 28.59              | -10.50            | 18.09              | 46.00        | -27.91  | peak     |         |
| 6 *     | 625.5800  | 28.28              | -7.36             | 20.92              | 46.00        | -25.08  | peak     |         |



|               |                                      |                     |            |
|---------------|--------------------------------------|---------------------|------------|
| EUT :         | AFTERGLOW PS3<br>WIRELESS CONTROLLER | Model Name :        | PL-6422    |
| Temperature : | 25 °C                                | Relative Humidity : | 58 %       |
| Pressure :    | 1010 hPa                             | Test Voltage :      | DC 3.7V    |
| Test Mode :   | TX Mode 2476MHz                      | Polarization:       | Horizontal |



| No. Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV/m | Limit<br>dBuV/m | Over<br>dB | Detector | Comment |
|---------|--------------|--------------------------|-------------------------|----------------------------|-----------------|------------|----------|---------|
| 1       | 42.6100      | 27.07                    | -17.61                  | 9.46                       | 40.00           | -30.54     | peak     |         |
| 2       | 200.7200     | 26.89                    | -18.26                  | 8.63                       | 43.50           | -34.87     | peak     |         |
| 3       | 366.5900     | 27.47                    | -12.71                  | 14.76                      | 46.00           | -31.24     | peak     |         |
| 4       | 507.2400     | 27.55                    | -10.18                  | 17.37                      | 46.00           | -28.63     | peak     |         |
| 5       | 610.0600     | 28.14                    | -7.58                   | 20.56                      | 46.00           | -25.44     | peak     |         |
| 6 *     | 746.8300     | 27.86                    | -6.75                   | 21.11                      | 46.00           | -24.89     | peak     |         |



**4.2.9 TEST RESULTS (ABOVE 1000 MHZ)**

|               |                                   |                     |         |
|---------------|-----------------------------------|---------------------|---------|
| EUT :         | AFTERGLOW PS3 WIRELESS CONTROLLER | Model Name :        | PL-6422 |
| Temperature : | 25 °C                             | Relative Humidity : | 58 %    |
| Pressure :    | 1010 hPa                          | Test Voltage :      | DC 3.7V |
| Test Mode :   | TX 2409MHz                        |                     |         |

| Freq.<br>(MHz) | Ant.Pol.<br>H/V | Reading        |              | Ant./CF<br>CF(dB) | Act.             |                | Limit            |                | Margin           |                | Note       |
|----------------|-----------------|----------------|--------------|-------------------|------------------|----------------|------------------|----------------|------------------|----------------|------------|
|                |                 | Peak<br>(dBuV) | AV<br>(dBuV) |                   | Peak<br>(dBuV/m) | AV<br>(dBuV/m) | Peak<br>(dBuV/m) | AV<br>(dBuV/m) | Peak<br>(dBuV/m) | AV<br>(dBuV/m) |            |
| 2390.00        | V               | 22.19          | 13.47        | 32.28             | 54.47            | 45.75          | 74.00            | 54.00          | -19.53           | -8.25          | X/E        |
| <b>2409.25</b> | <b>V</b>        | <b>51.79</b>   | <b>40.68</b> | <b>32.26</b>      | <b>84.05</b>     | <b>72.94</b>   |                  |                |                  |                | <b>X/F</b> |
| 4818.08        | V               | 52.86          | 42.14        | 6.17              | 59.03            | 48.31          | 74.00            | 54.00          | -14.97           | -5.69          | X/H        |

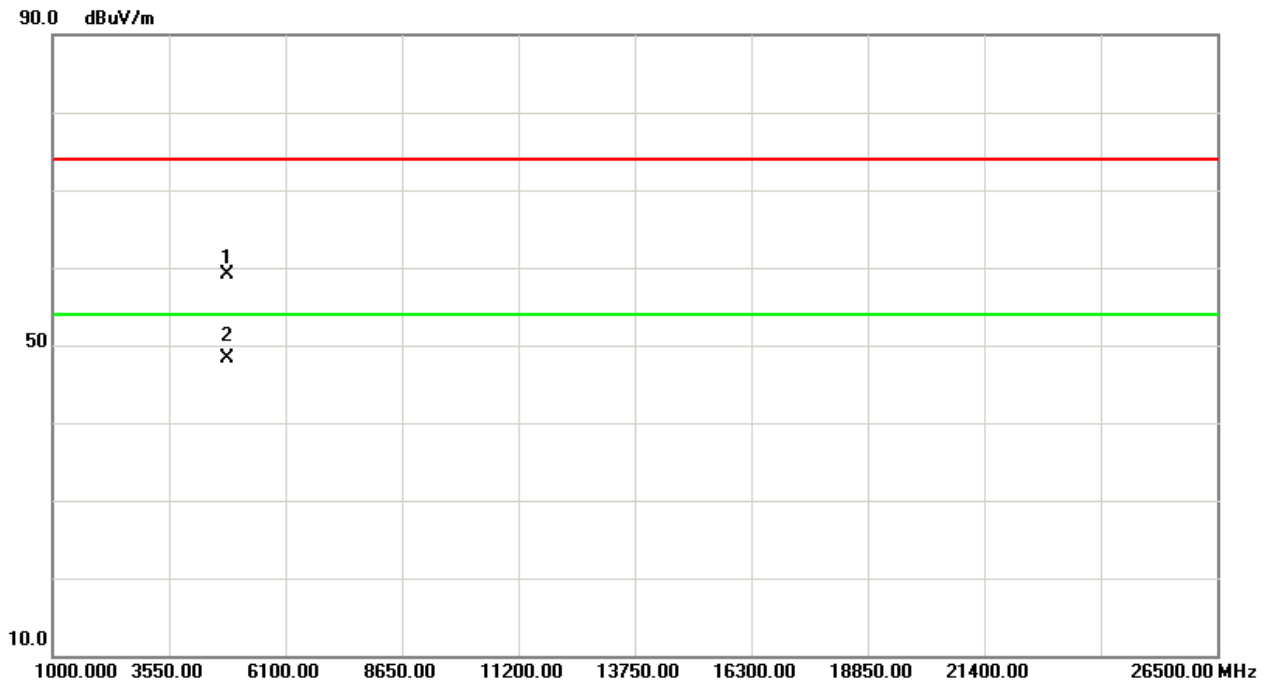
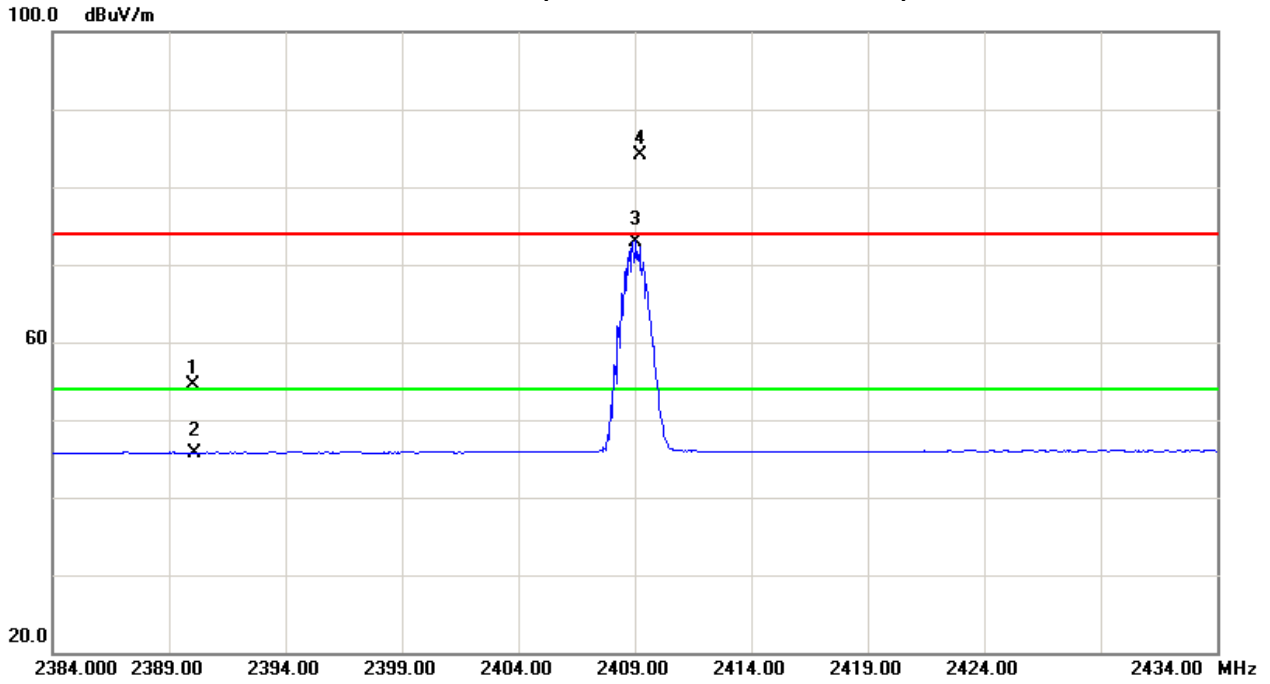
Remark :

- (1) All readings are Peak unless otherwise stated QP in column of 『Note』 . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency. "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission .
- (4) Data of measurement within this frequency range shown " \* " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis :  
"X" - denotes Laid on Table ; "Y" - denotes Vertical Stand ; "Z" - denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna
- (8) Peak setting: RBW=1MHz, VBW=1MHz. AVG setting: RBW=1MHz, VBW=10KHz.





TX 2409MHz(Above 1000 MHz, Vertical)





|               |                                      |                     |         |
|---------------|--------------------------------------|---------------------|---------|
| EUT :         | AFTERGLOW PS3<br>WIRELESS CONTROLLER | Model Name :        | PL-6422 |
| Temperature : | 25 °C                                | Relative Humidity : | 58 %    |
| Pressure :    | 1010hPa                              | Test Voltage :      | DC 3.7V |
| Test Mode :   | TX 2409MHz                           |                     |         |

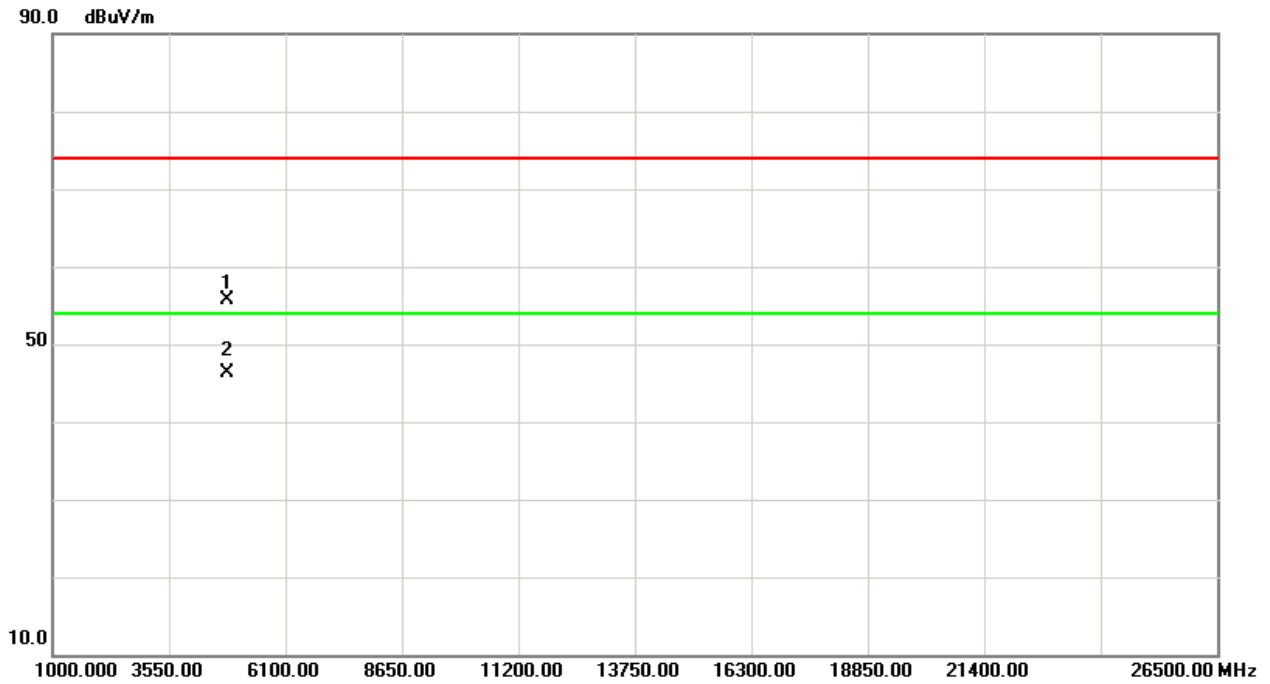
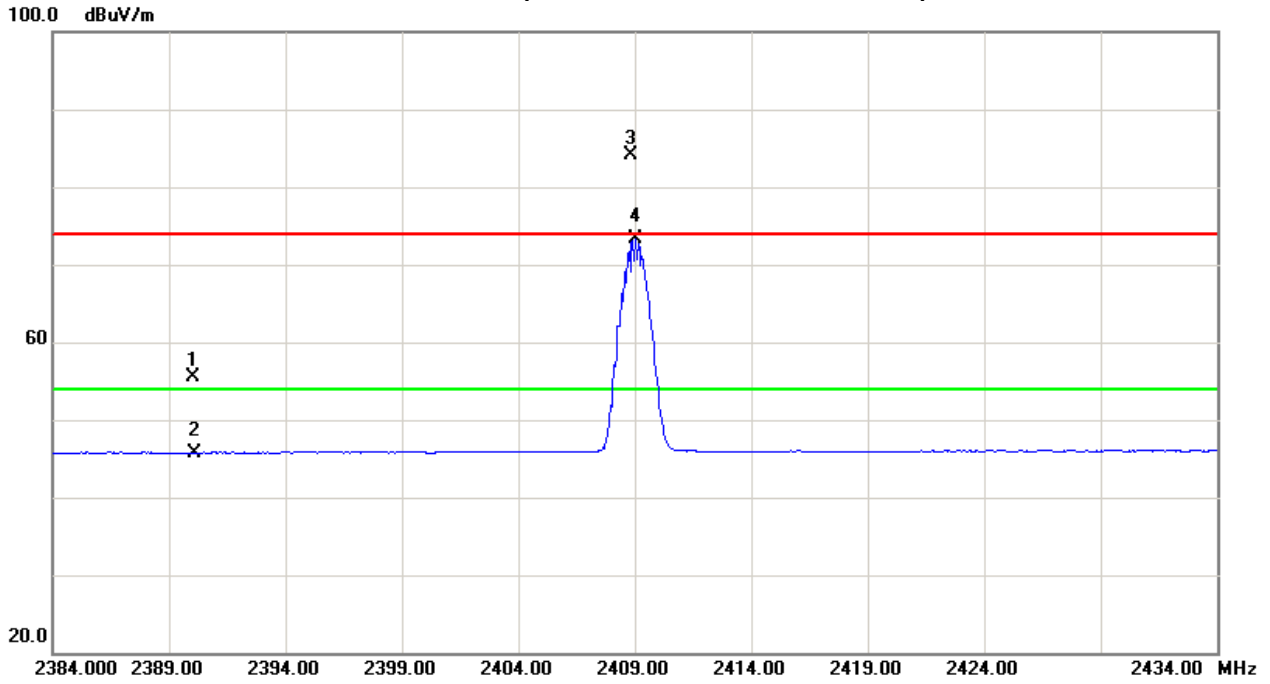
| Freq.<br>(MHz) | Ant.Pol.<br>H/V | Reading        |              | Ant./CF<br>CF (dB) | Act.             |                | Limit            |                | Margin           |                | Note       |
|----------------|-----------------|----------------|--------------|--------------------|------------------|----------------|------------------|----------------|------------------|----------------|------------|
|                |                 | Peak<br>(dBuV) | AV<br>(dBuV) |                    | Peak<br>(dBuV/m) | AV<br>(dBuV/m) | Peak<br>(dBuV/m) | AV<br>(dBuV/m) | Peak<br>(dBuV/m) | AV<br>(dBuV/m) |            |
| 2390.00        | H               | 23.21          | 13.51        | 32.28              | 55.49            | 45.79          | 74.00            | 54.00          | -18.51           | -8.21          | X/E        |
| <b>2408.85</b> | <b>H</b>        | <b>51.93</b>   | <b>41.01</b> | <b>32.26</b>       | <b>84.19</b>     | <b>73.27</b>   |                  |                |                  |                | <b>X/F</b> |
| 4818.13        | H               | 49.58          | 40.16        | 6.17               | 55.75            | 46.33          | 74.00            | 54.00          | -18.25           | -7.67          | X/H        |

Remark :

- (1) All readings are Peak unless otherwise stated QP in column of 『Note』 . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency. "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission .
- (4) Data of measurement within this frequency range shown " \* " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis :  
"X" - denotes Laid on Table ; "Y" - denotes Vertical Stand ; "Z" - denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna
- (8) Peak setting: RBW=1MHz, VBW=1MHz. AVG setting: RBW=1MHz, VBW=10KHz.



TX 2409MHz(Above 1000 MHz, Horizontal)





|               |                                      |                     |         |
|---------------|--------------------------------------|---------------------|---------|
| EUT :         | AFTERGLOW PS3<br>WIRELESS CONTROLLER | Model Name :        | PL-6422 |
| Temperature : | 25 °C                                | Relative Humidity : | 58 %    |
| Pressure :    | 1010 hPa                             | Test Voltage :      | DC 3.7V |
| Test Mode :   | TX 2440MHz                           |                     |         |

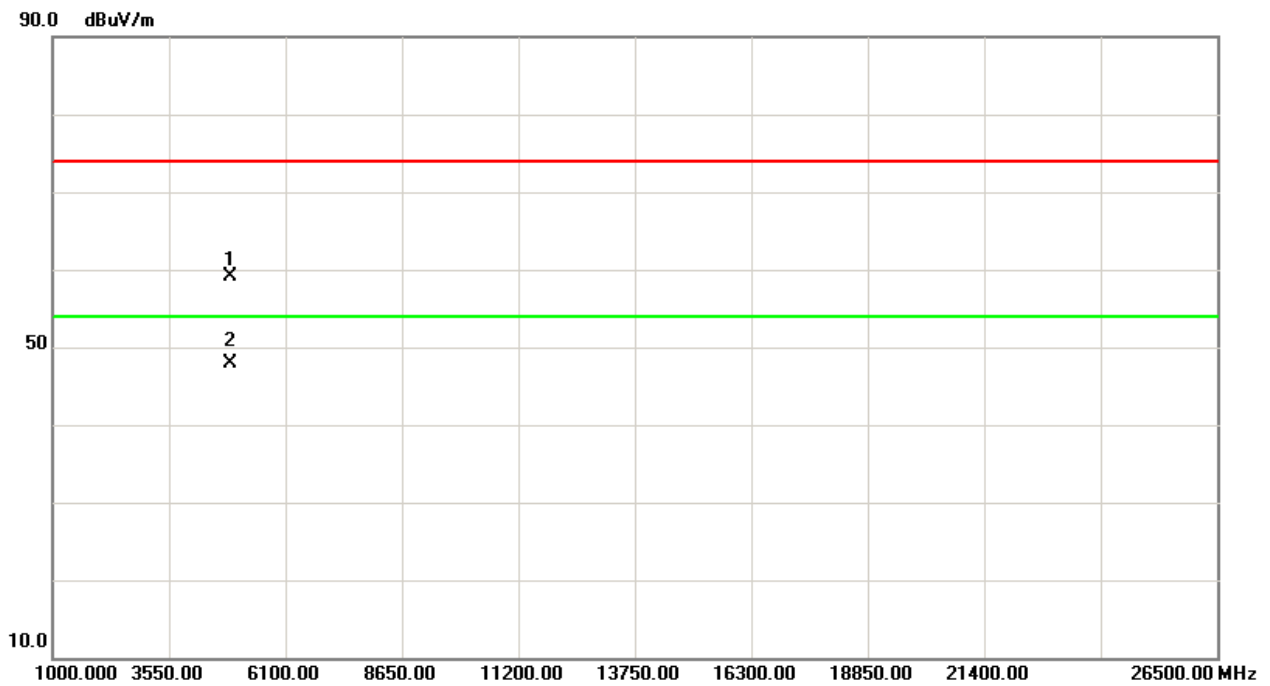
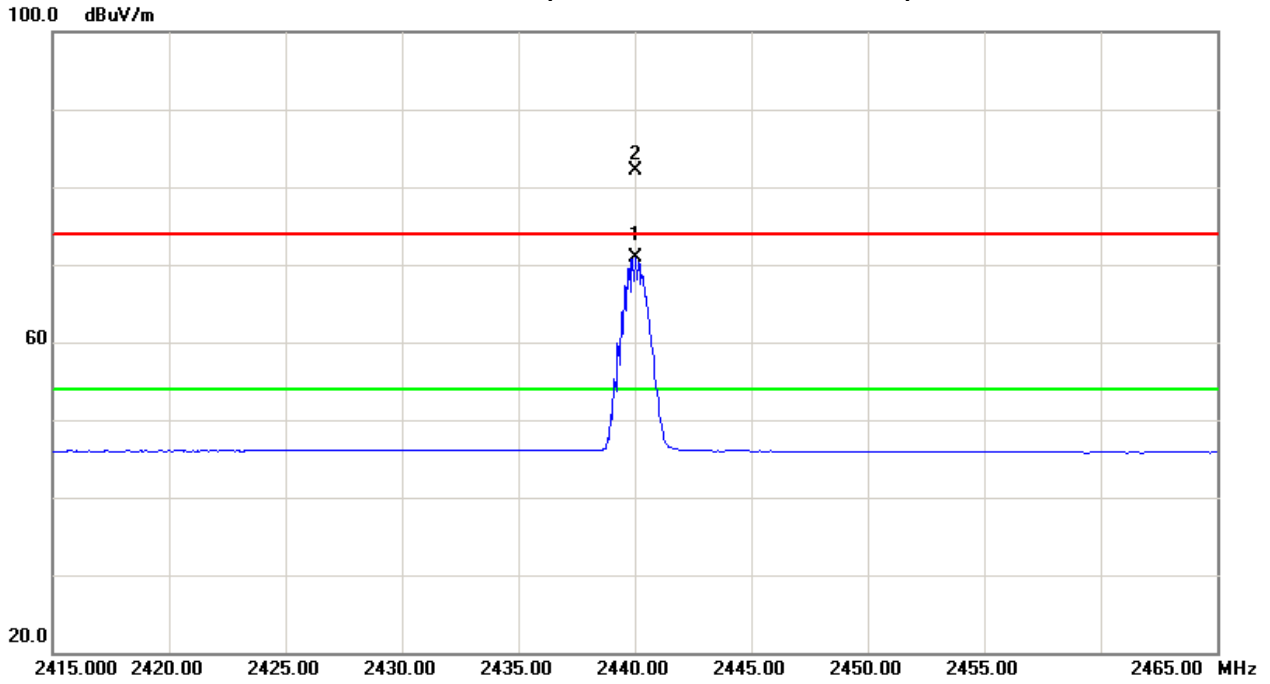
| Freq.<br>(MHz) | Ant.Pol.<br>H/V | Reading        |              | Ant./CF<br>CF(dB) | Act.             |                | Limit            |                | Margin           |                | Note       |
|----------------|-----------------|----------------|--------------|-------------------|------------------|----------------|------------------|----------------|------------------|----------------|------------|
|                |                 | Peak<br>(dBuV) | AV<br>(dBuV) |                   | Peak<br>(dBuV/m) | AV<br>(dBuV/m) | Peak<br>(dBuV/m) | AV<br>(dBuV/m) | Peak<br>(dBuV/m) | AV<br>(dBuV/m) |            |
| <b>2440.05</b> | <b>V</b>        | <b>49.83</b>   | <b>38.77</b> | <b>32.22</b>      | <b>82.05</b>     | <b>70.99</b>   |                  |                |                  |                | <b>X/F</b> |
| 4880.12        | V               | 52.71          | 41.52        | 6.42              | 59.13            | 47.94          | 74.00            | 54.00          | -14.87           | -6.06          | X/H        |

Remark :

- (1) All readings are Peak unless otherwise stated QP in column of 『Note』 . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency. "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission .
- (4) Data of measurement within this frequency range shown " \* " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis :  
"X" - denotes Laid on Table ; "Y" - denotes Vertical Stand ; "Z" - denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna
- (8) Peak setting: RBW=1MHz, VBW=1MHz. AVG setting: RBW=1MHz, VBW=10KHz.



TX 2440MHz (Above 1000 MHz, Vertical)





|               |                                      |                     |         |
|---------------|--------------------------------------|---------------------|---------|
| EUT :         | AFTERGLOW PS3<br>WIRELESS CONTROLLER | Model Name :        | PL-6422 |
| Temperature : | 25 °C                                | Relative Humidity : | 58 %    |
| Pressure :    | 1010 hPa                             | Test Voltage :      | DC 3.7V |
| Test Mode :   | TX 2440MHz                           |                     |         |

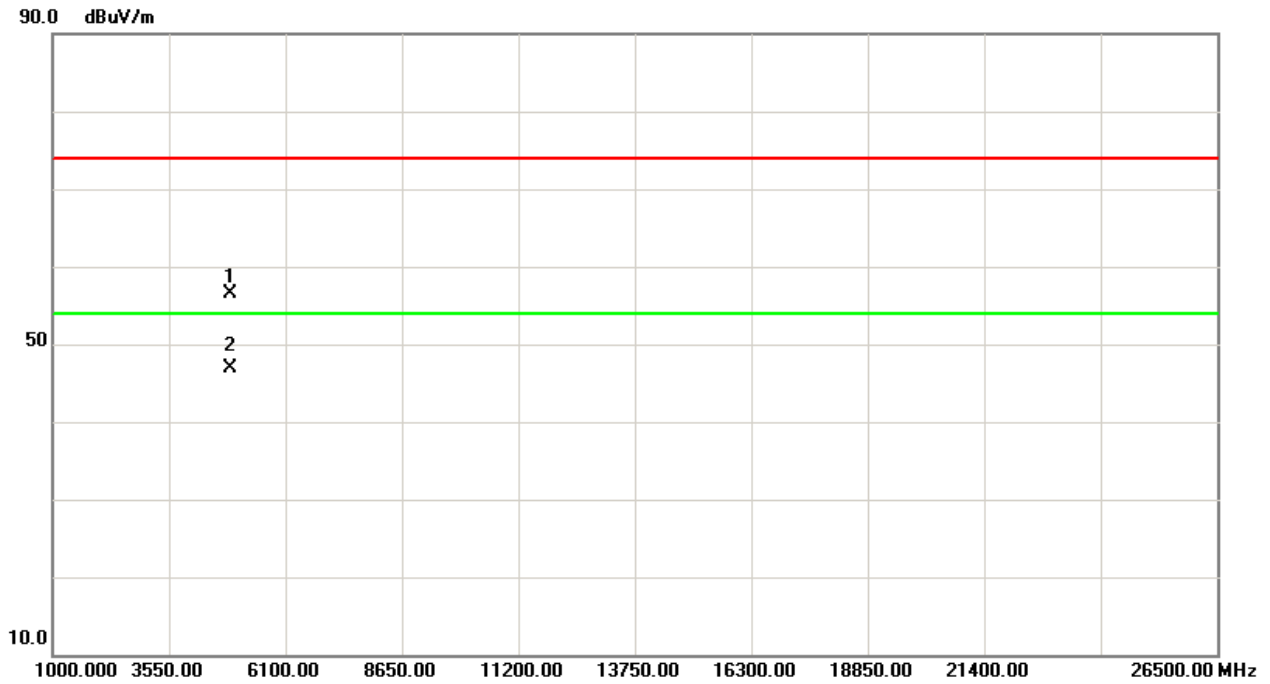
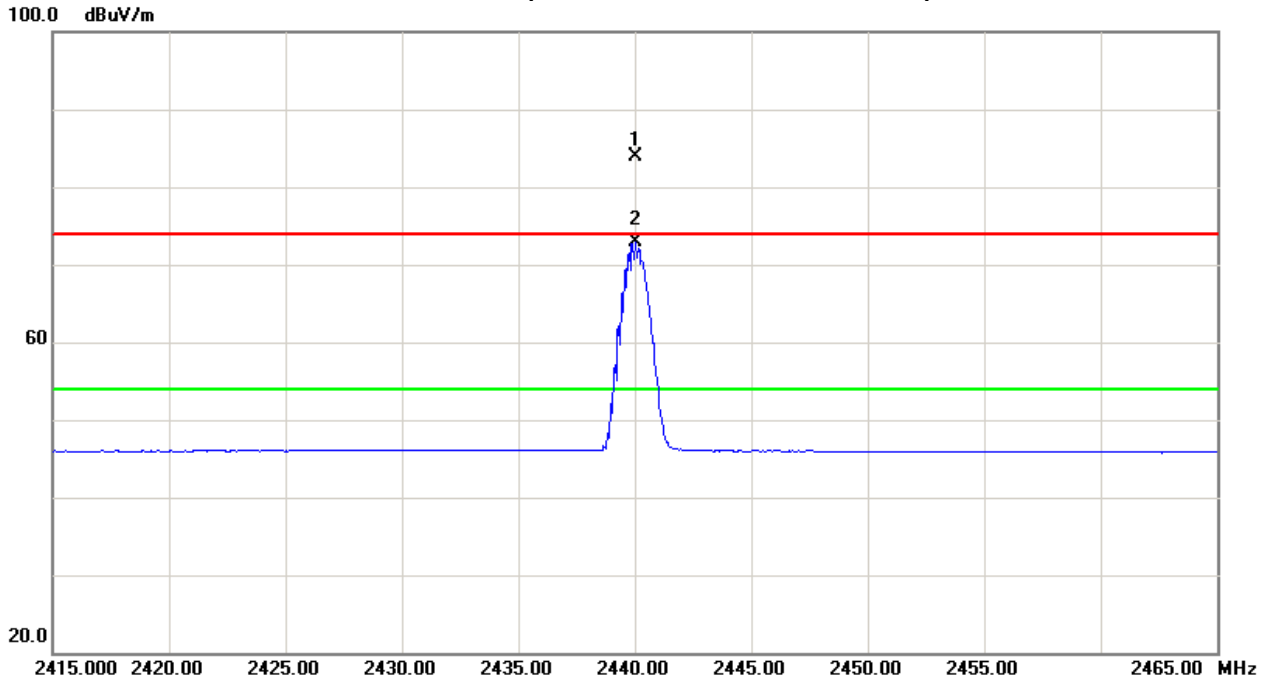
| Freq.          | Ant.Pol. | Reading      |              | Ant./CF      | Act.         |              | Limit    |          | Margin   |          | Note       |
|----------------|----------|--------------|--------------|--------------|--------------|--------------|----------|----------|----------|----------|------------|
|                |          | Peak         | AV           |              | Peak         | AV           | Peak     | AV       | Peak     | AV       |            |
| (MHz)          | H/V      | (dBuV)       | (dBuV)       | CF(dB)       | (dBuV/m)     | (dBuV/m)     | (dBuV/m) | (dBuV/m) | (dBuV/m) | (dBuV/m) |            |
| <b>2440.00</b> | <b>H</b> | <b>51.61</b> | <b>40.75</b> | <b>32.22</b> | <b>83.83</b> | <b>72.97</b> |          |          |          |          | <b>X/F</b> |
| 4881.05        | H        | 50.13        | 40.57        | 6.42         | 56.55        | 46.99        | 74.00    | 54.00    | -17.45   | -7.01    | X/H        |

Remark :

- (1) All readings are Peak unless otherwise stated QP in column of 『Note』 . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency. "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission .
- (4) Data of measurement within this frequency range shown " \* " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis :  
"X" - denotes Laid on Table ; "Y" - denotes Vertical Stand ; "Z" - denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna
- (8) Peak setting: RBW=1MHz, VBW=1MHz. AVG setting: RBW=1MHz, VBW=10KHz.



TX 2440MHz (Above 1000 MHz, Horizontal)





|               |                                      |                     |         |
|---------------|--------------------------------------|---------------------|---------|
| EUT :         | AFTERGLOW PS3<br>WIRELESS CONTROLLER | Model Name :        | PL-6422 |
| Temperature : | 25 °C                                | Relative Humidity : | 58 %    |
| Pressure :    | 1010hPa                              | Test Voltage :      | DC 3.7V |
| Test Mode :   | TX 2476MHz                           |                     |         |

| Freq.          | Ant.Pol. | Reading      |              | Ant./CF      | Act.         |              | Limit    |          | Margin   |          | Note       |
|----------------|----------|--------------|--------------|--------------|--------------|--------------|----------|----------|----------|----------|------------|
|                |          | Peak         | AV           |              | Peak         | AV           | Peak     | AV       | Peak     | AV       |            |
| (MHz)          | H/V      | (dBuV)       | (dBuV)       | CF(dB)       | (dBuV/m)     | (dBuV/m)     | (dBuV/m) | (dBuV/m) | (dBuV/m) | (dBuV/m) |            |
| <b>2476.05</b> | <b>V</b> | <b>48.13</b> | <b>37.10</b> | <b>32.19</b> | <b>80.32</b> | <b>69.29</b> |          |          |          |          | <b>X/F</b> |
| 2483.50        | V        | 22.11        | 13.56        | 32.17        | 54.28        | 45.73        | 74.00    | 54.00    | -19.72   | -8.27    | X/E        |
| 4951.96        | V        | 53.64        | 42.57        | 6.70         | 60.34        | 49.27        | 74.00    | 54.00    | -13.66   | -4.73    | X/H        |

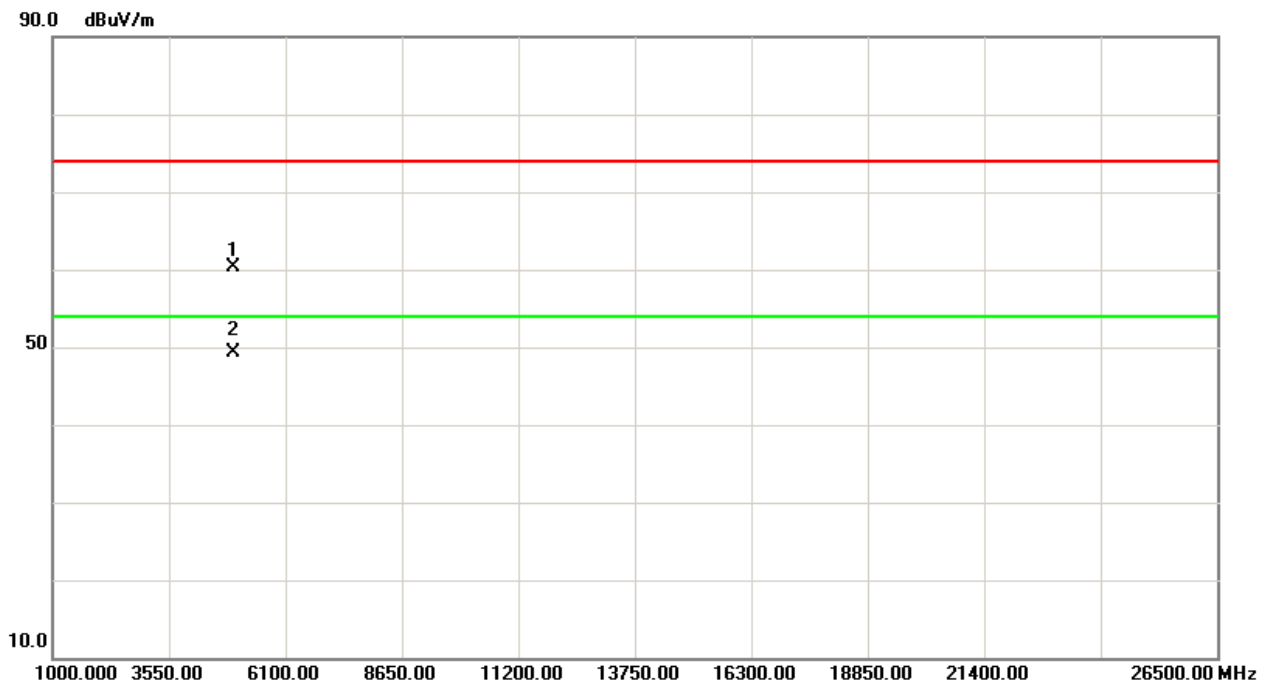
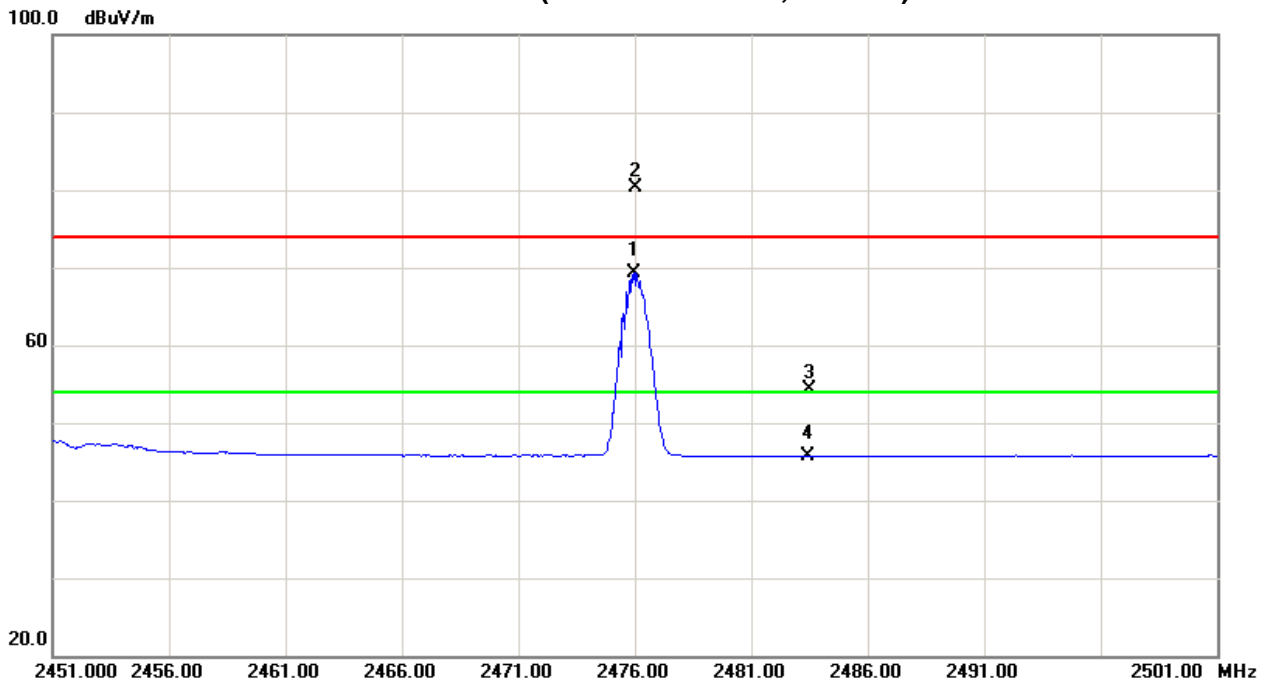
**Remark :**

- (1) All readings are Peak unless otherwise stated QP in column of 『Note』 . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency. "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission .
- (4) Data of measurement within this frequency range shown " \* " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis :  
"X" - denotes Laid on Table ; "Y" - denotes Vertical Stand ; "Z" - denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna
- (8) Peak setting: RBW=1MHz, VBW=1MHz. AVG setting: RBW=1MHz, VBW=10KHz.





TX 2476MHz(Above 1000 MHz, Vertical)





|               |                                      |                     |         |
|---------------|--------------------------------------|---------------------|---------|
| EUT :         | AFTERGLOW PS3<br>WIRELESS CONTROLLER | Model Name :        | PL-6422 |
| Temperature : | 25 °C                                | Relative Humidity : | 58 %    |
| Pressure :    | 1010 hPa                             | Test Voltage :      | DC 3.7V |
| Test Mode :   | TX 2476MHz                           |                     |         |

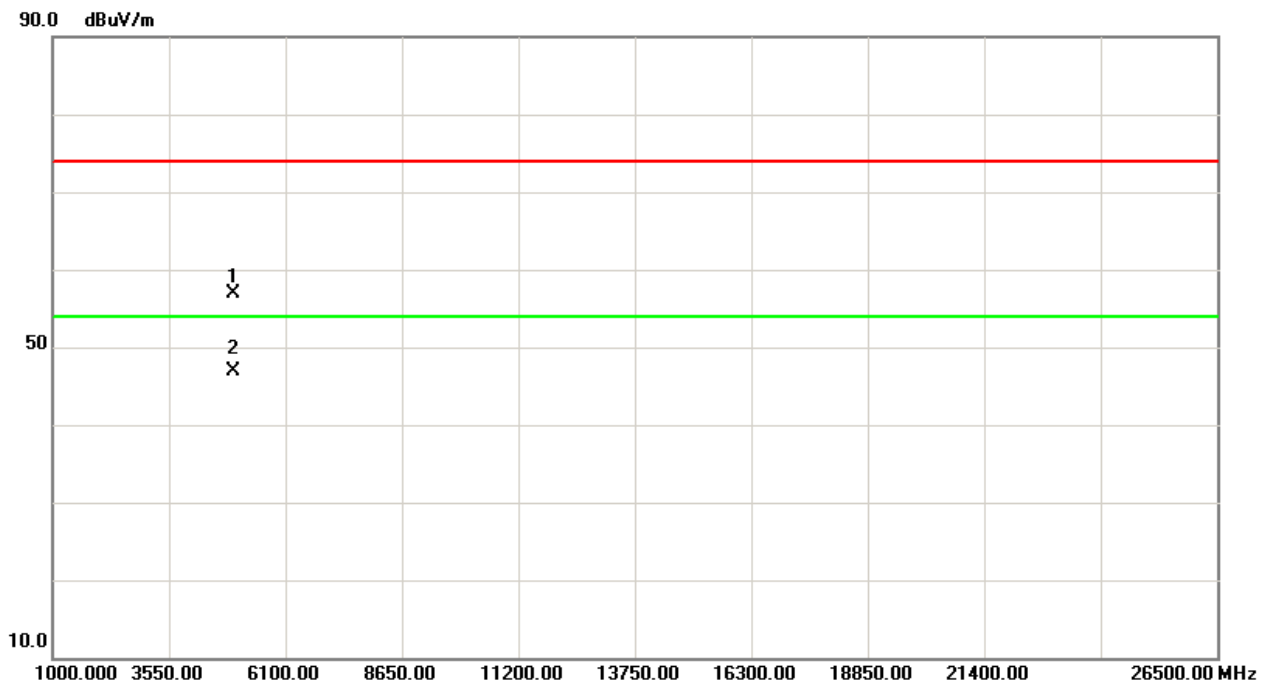
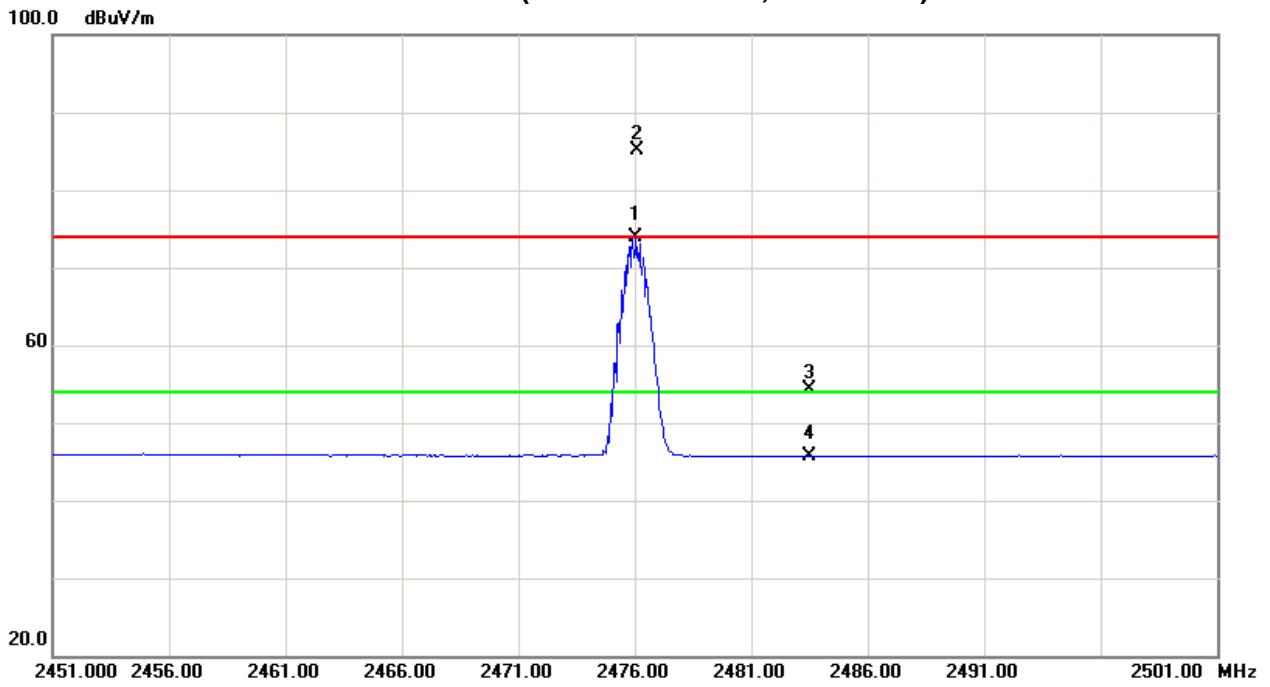
| Freq.          | Ant.Pol. | Reading      |              | Ant./CF      | Act.         |              | Limit    |          | Margin   |          | Note       |
|----------------|----------|--------------|--------------|--------------|--------------|--------------|----------|----------|----------|----------|------------|
|                |          | Peak         | AV           |              | Peak         | AV           | Peak     | AV       | Peak     | AV       |            |
| (MHz)          | H/V      | (dBuV)       | (dBuV)       | CF(dB)       | (dBuV/m)     | (dBuV/m)     | (dBuV/m) | (dBuV/m) | (dBuV/m) | (dBuV/m) |            |
| <b>2476.10</b> | <b>H</b> | <b>52.88</b> | <b>41.78</b> | <b>32.19</b> | <b>85.07</b> | <b>73.97</b> |          |          |          |          | <b>X/F</b> |
| 2483.50        | H        | 22.20        | 13.56        | 32.17        | 54.37        | 45.73        | 74.00    | 54.00    | -19.63   | -8.27    | X/E        |
| 4951.92        | H        | 50.26        | 40.28        | 6.70         | 56.96        | 46.98        | 74.00    | 54.00    | -17.04   | -7.02    | X/H        |

Remark :

- (1) All readings are Peak unless otherwise stated QP in column of 『Note』 . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency. "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission .
- (4) Data of measurement within this frequency range shown " \* " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis :  
"X" - denotes Laid on Table ; "Y" - denotes Vertical Stand ; "Z" - denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna
- (8) Peak setting: RBW=1MHz, VBW=1MHz. AVG setting: RBW=1MHz, VBW=10KHz.



TX 2476MHz(Above 1000 MHz, Horizontal)





**5. NUMBER OF HOPPING CHANNEL**

**5.1 APPLIED PROCEDURES / LIMIT**

| FCC Part15 (15.247) , Subpart C |                           |                       |        |
|---------------------------------|---------------------------|-----------------------|--------|
| Section                         | Test Item                 | Frequency Range (MHz) | Result |
| 15.247 (a)(1)(iii)              | Number of Hopping Channel | 2400-2483.5           | PASS   |

**5.1.1 MEASUREMENT INSTRUMENTS LIST AND SETTING**

| Item | Kind of Equipment | Manufacturer | Type No. | Serial No. | Calibrated until |
|------|-------------------|--------------|----------|------------|------------------|
| 1    | Spectrum Analyzer | R&S          | FSP 40   | 100185     | Nov.25.2013      |

Remark: "N/A" denotes no model name, serial no. or calibration specified.

All calibration period of Equipment List is One Year.

| Spectrum Parameters | Setting                     |
|---------------------|-----------------------------|
| Attenuation         | Auto                        |
| Span Frequency      | > Operating Frequency Range |
| RB                  | 100 kHz                     |
| VB                  | 100 kHz                     |
| Detector            | Peak                        |
| Trace               | Max Hold                    |
| Sweep Time          | Auto                        |

**5.1.2 TEST PROCEDURE**

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- b. Spectrum Setting : RBW= 100KHz, VBW=100KHz, Sweep time = Auto.

**5.1.3 DEVIATION FROM STANDARD**

No deviation.

**5.1.4 TEST SETUP**



**5.1.5 EUT OPERATION CONDITIONS**

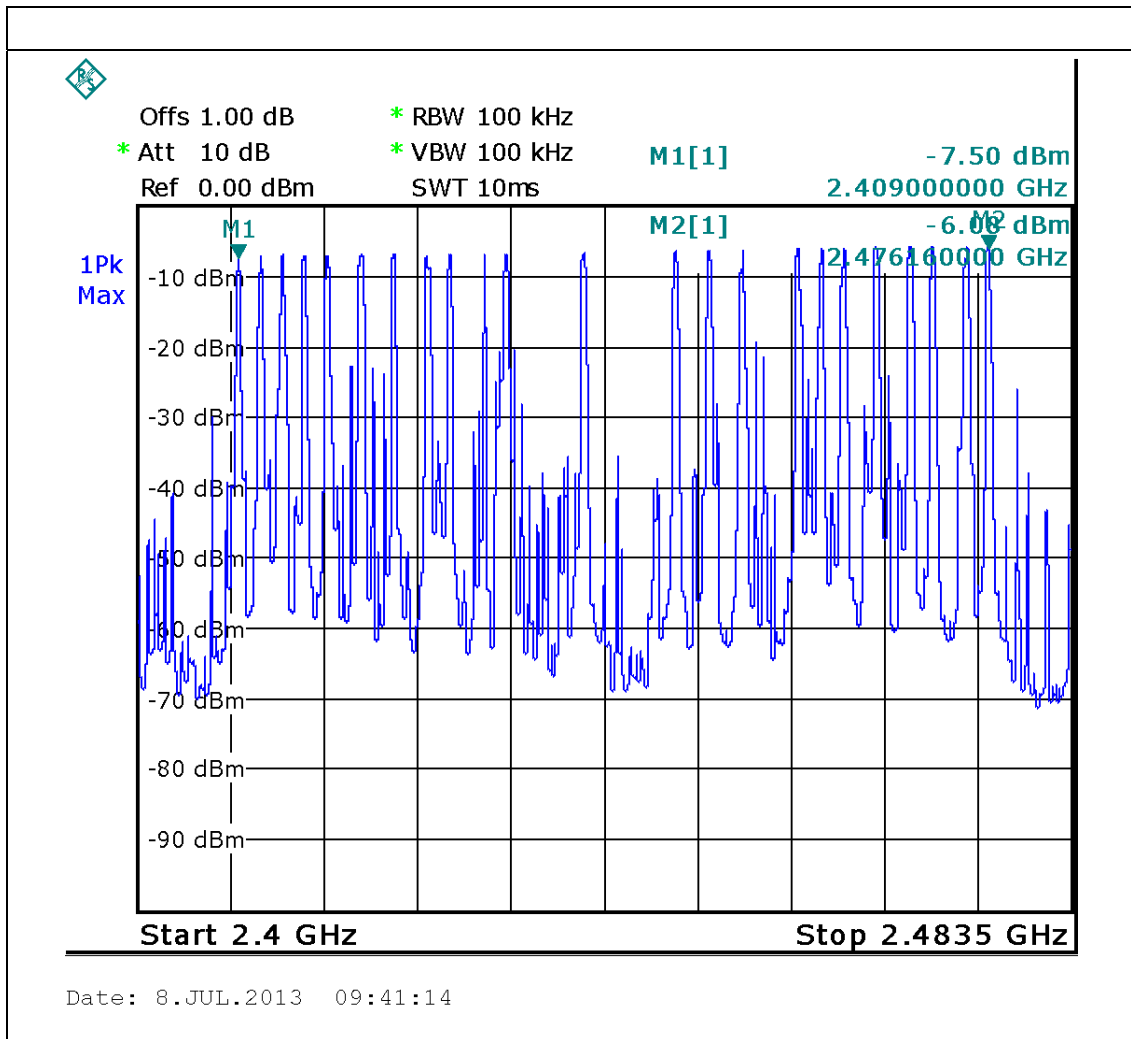
The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.



**5.1.6 TEST RESULTS**

|               |                                   |                     |         |
|---------------|-----------------------------------|---------------------|---------|
| EUT :         | AFTERGLOW PS3 WIRELESS CONTROLLER | Model Name :        | PL-6422 |
| Temperature : | 25 °C                             | Relative Humidity : | 58 %    |
| Pressure :    | 1009 hPa                          | Test Voltage :      | DC 3.7V |
| Test Mode :   | Hopping Mode                      |                     |         |

|                           |    |
|---------------------------|----|
| Number of Hopping Channel | 23 |
|---------------------------|----|





## 6. AVERAGE TIME OF OCCUPANCY

### 6.1 APPLIED PROCEDURES / LIMIT

| FCC Part15 (15.247) , Subpart C |                           |        |                       |        |
|---------------------------------|---------------------------|--------|-----------------------|--------|
| Section                         | Test Item                 | Limit  | Frequency Range (MHz) | Result |
| 15.247 (a)(1)(iii)              | Average Time of Occupancy | 0.4sec | 2400-2483.5           | PASS   |

### 6.1.1 MEASUREMENT INSTRUMENTS LIST

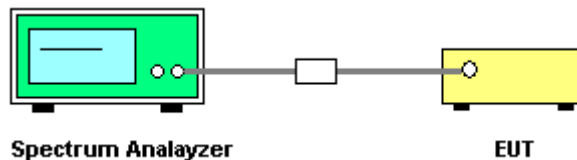
| Item | Kind of Equipment | Manufacturer | Type No. | Serial No. | Calibrated until |
|------|-------------------|--------------|----------|------------|------------------|
| 1    | Spectrum Analyzer | R&S          | FSP 40   | 100185     | Nov.25.2013      |

Remark: "N/A" denotes no model name, serial no. or calibration specified.  
All calibration period of Equipment List is One Year.

### 6.1.2 TEST PROCEDURE

- The transmitter output (antenna port) was connected to the spectrum analyzer
- Set RBW of spectrum analyzer to 1MHz and VBW to 1MHz.
- Use a video trigger with the trigger level set to enable triggering only on full pulses.
- Sweep Time is more than once pulse time.
- Set the center frequency on any frequency would be measure and set the frequency span to zero span.
- Measure the maximum time duration of one single pulse.
- Set the EUT for packet transmitting.
- Measure the maximum time duration of one single pulse.
- Dwell time =  $[\text{spreading rate}/16] \times \text{duty-cycle} \times 0.4 \text{ seconds}$

### 6.1.3. TEST SETUP LAYOUT



### 6.1.4. TEST DEVIATION

There is no deviation with the original standard.

### 6.1.5. EUT OPERATION DURING TEST

The EUT was programmed to be in continuously transmitting/Hopping mode.



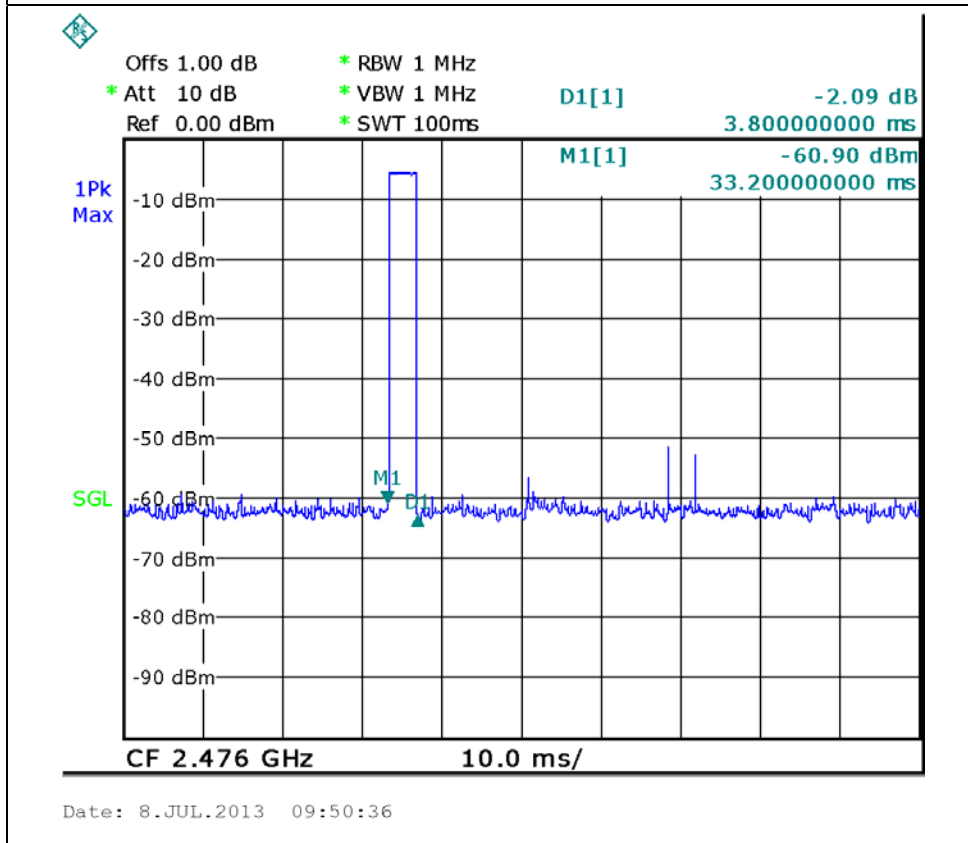
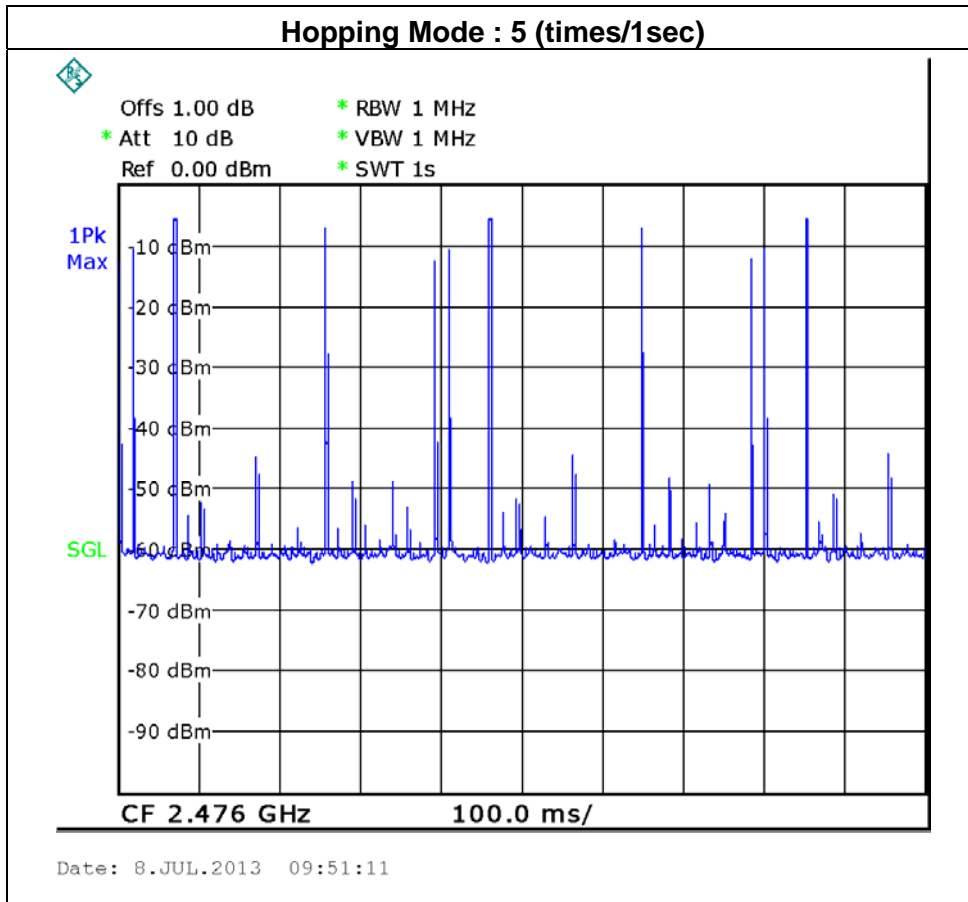
**6.1.6. TEST RESULTS**

|               |                                      |                     |         |
|---------------|--------------------------------------|---------------------|---------|
| EUT :         | AFTERGLOW PS3<br>WIRELESS CONTROLLER | Model Name :        | PL-6422 |
| Temperature : | 25 °C                                | Relative Humidity : | 58 %    |
| Pressure :    | 1009 hPa                             | Test Voltage :      | DC 3.7V |
| Test Mode :   | Hopping Mode                         |                     |         |

| Mode    | Number of transmission in a<br>9.2(23Hopping*0.4) | Length of<br>transmission<br>time (msec) | Result<br>(msec) | Limit<br>(msec) |
|---------|---|--|------------------|-----------------|
| 2476MHz | (5/1) *9.2=46 times <b>Note1</b>                  | 3.8                                      | 174.8            | 400             |

**Note1:** 5 times of occupied channels per 1 second

|  | Results              |
|--|----------------------|
| Measured cycle (sec)                                       | 23 CH*0.4=9.2        |
| The total number of frequency-hopping per second           | ((5/1)*9.2)=46       |
| The number of occupied channels per second                 | 46/9.2=5(number/sec) |
| occupied time for each channel(1)                          | 3.8ms                |
| The total number of channels occupied within one cycle (2) | (5/1) *9.2=46times   |
| The average time of occupancy within one cycle(1)*(2)      | 174.8msec            |
| LIMIT (msec)   | 400msec              |





**7. HOPPING CHANNEL SEPARATION MEASUREMENT**

**7.1 APPLIED PROCEDURES / LIMIT**

Frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater.

**7.1.1 MEASUREMENT INSTRUMENTS LIST AND SETTING**

| Item | Kind of Equipment | Manufacturer | Type No. | Serial No. | Calibrated until |
|------|-------------------|--------------|----------|------------|------------------|
| 1    | Spectrum Analyzer | R&S          | FSP 40   | 100185     | Nov.25.2013      |

Remark: "N/A" denotes no model name, serial no. or calibration specified.  
All calibration period of Equipment List is One Year.

| Spectrum Parameter | Setting                                       |
|--------------------|---|
| Attenuation        | Auto  |
| Span Frequency     | > Measurement Bandwidth or Channel Separation |
| RB                 | 30 kHz  |
| VB                 | 100 kHz                                       |
| Detector           | Peak  |
| Trace              | Max Hold                                      |
| Sweep Time         | Auto  |

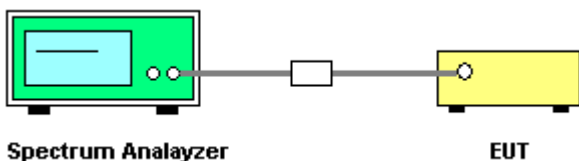
**7.1.2 TEST PROCEDURE**

- a. The EUT must have its hopping function enabled
- b. Span = wide enough to capture the peaks of two adjacent channels  
Resolution (or IF) Bandwidth (RBW) ≥ 1% of the span  
Video (or Average) Bandwidth (VBW) ≥ RBW  
Sweep = auto  
Detector function = peak  
Trace = max hold

**7.1.3 DEVIATION FROM STANDARD**

No deviation.

**7.1.4 TEST SETUP**



**7.1.5 EUT OPERATION CONDITIONS**

The EUT was programmed to be in hopping mode.

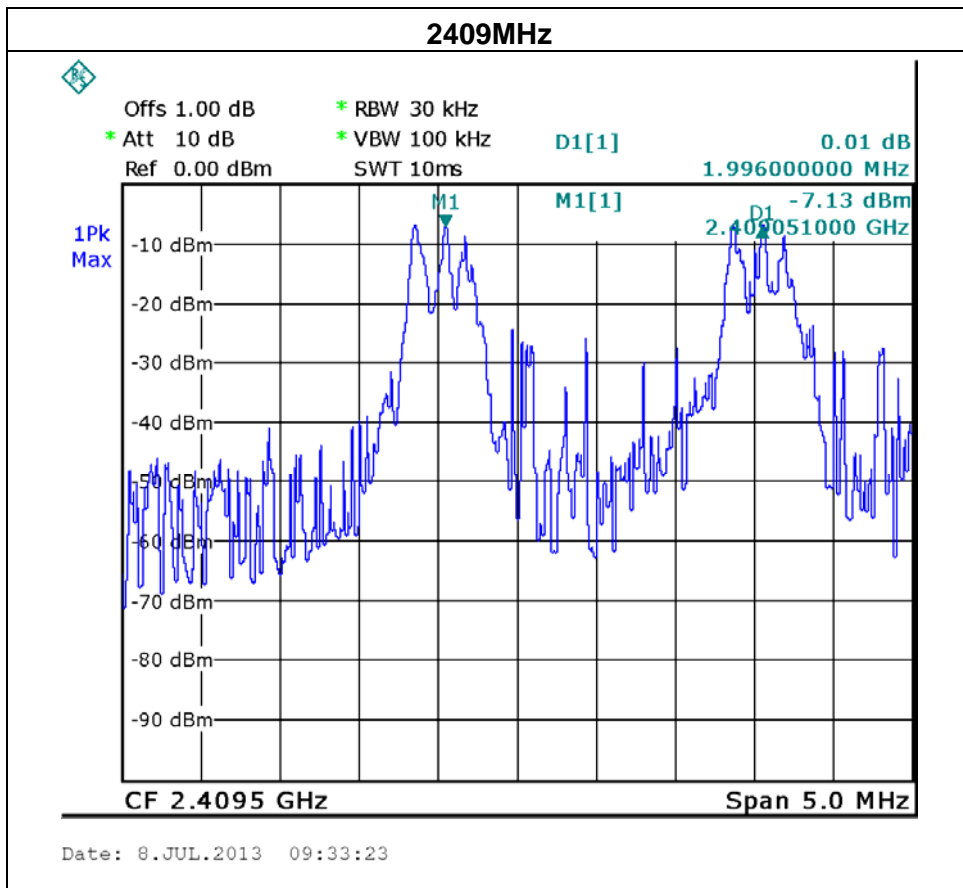


**7.1.6 TEST RESULTS**

|               |                                      |                     |         |
|---------------|--------------------------------------|---------------------|---------|
| EUT :         | AFTERGLOW PS3<br>WIRELESS CONTROLLER | Model Name :        | PL-6422 |
| Temperature : | 25 °C                                | Relative Humidity : | 58 %    |
| Pressure :    | 1009 hPa                             | Test Voltage :      | DC 3.7V |
| Test Mode :   | CH01 / CH30 / CH63                   |                     |         |

| Frequency (MHz) | Ch. Separation (MHz) | 20dB Bandwidth (MHz) | Result          |
|-----------------|----------------------|----------------------|-----------------|
| 2409            | 1.996                | 1.786                | <b>Complies</b> |

**Ch. Separation Limits: >20dB bandwidth or >2/3 of 20dB bandwidth**





**8. BANDWIDTH TEST**

**8.1 APPLIED PROCEDURES / LIMIT**

| FCC Part15 (15.247) , Subpart C |           |                       |        |
|---------------------------------|-----------|-----------------------|--------|
| Section                         | Test Item | Frequency Range (MHz) | Result |
| 15.247<br>(a)(1)                | Bandwidth | 2400-2483.5           | PASS   |

**8.1.1 MEASUREMENT INSTRUMENTS LIST AND SETTING**

| Item | Kind of Equipment | Manufacturer | Type No. | Serial No. | Calibrated until |
|------|-------------------|--------------|----------|------------|------------------|
| 1    | Spectrum Analyzer | R&S          | FSP 40   | 100185     | Nov.25.2013      |

Remark: "N/A" denotes no model name, serial no. or calibration specified.  
All calibration period of Equipment List is One Year.

| Spectrum Parameter | Setting   |
|--------------------|---|
| Attenuation        | Auto  |
| Span Frequency     | > Measurement Bandwidth or Channel Separation           |
| RB                 | 30 kHz (20dB Bandwidth) / 30 kHz (Channel Separation)   |
| VB                 | 100 kHz (20dB Bandwidth) / 100 kHz (Channel Separation) |
| Detector           | Peak  |
| Trace              | Max Hold  |
| Sweep Time         | Auto  |

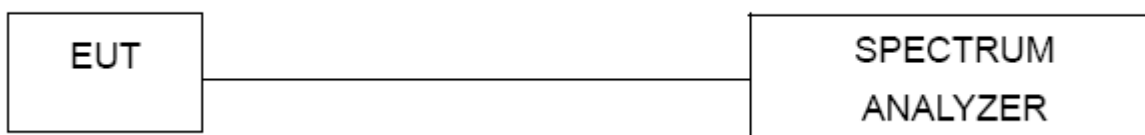
**8.1.2 TEST PROCEDURE**

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- b. Spectrum Setting : RBW= 30KHz, VBW=100KHz, Sweep time = Auto.

**8.1.3 DEVIATION FROM STANDARD**

No deviation.

**8.1.4 TEST SETUP**



**8.1.5 EUT OPERATION CONDITIONS**

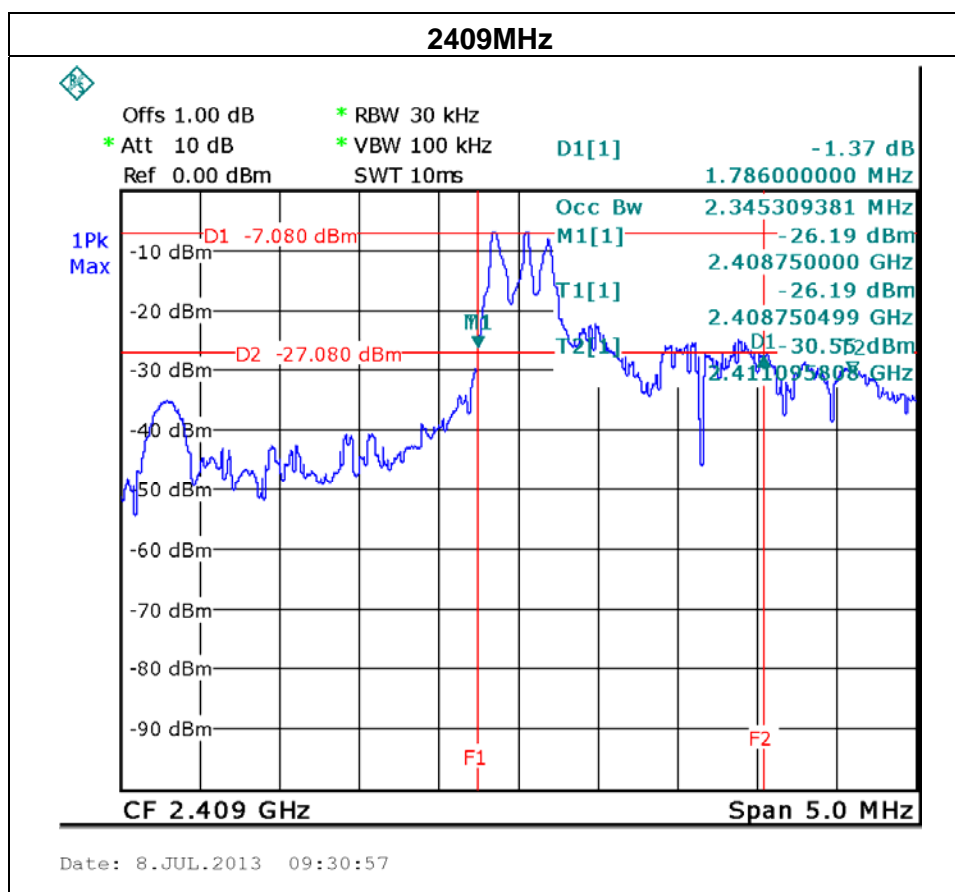
The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.

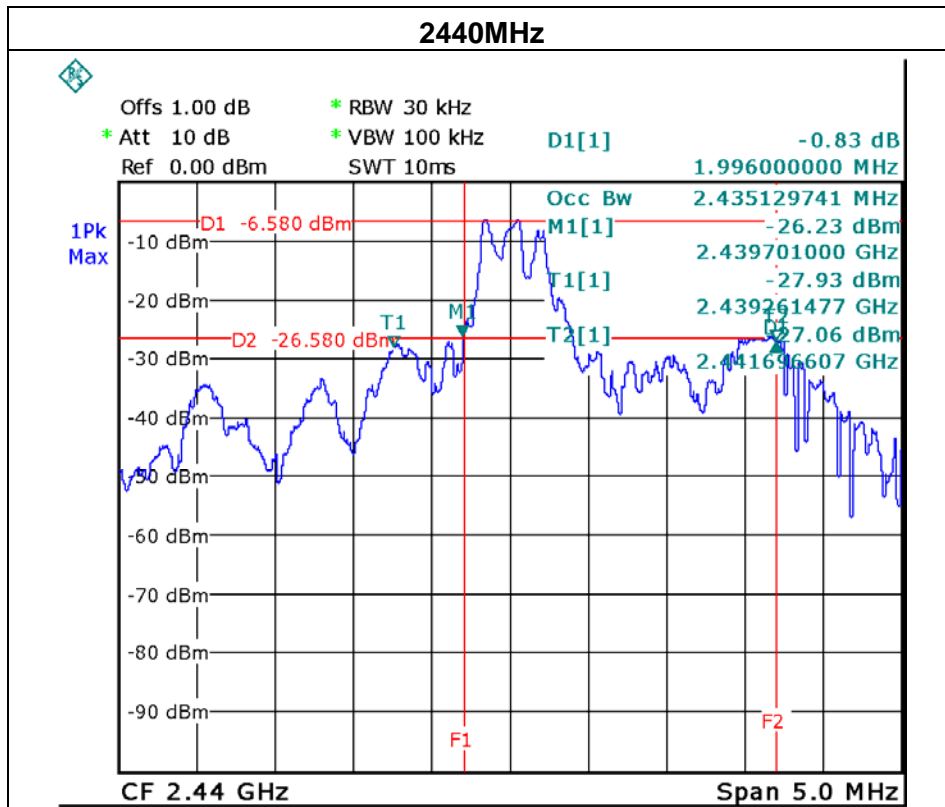


**8.1.6 TEST RESULTS**

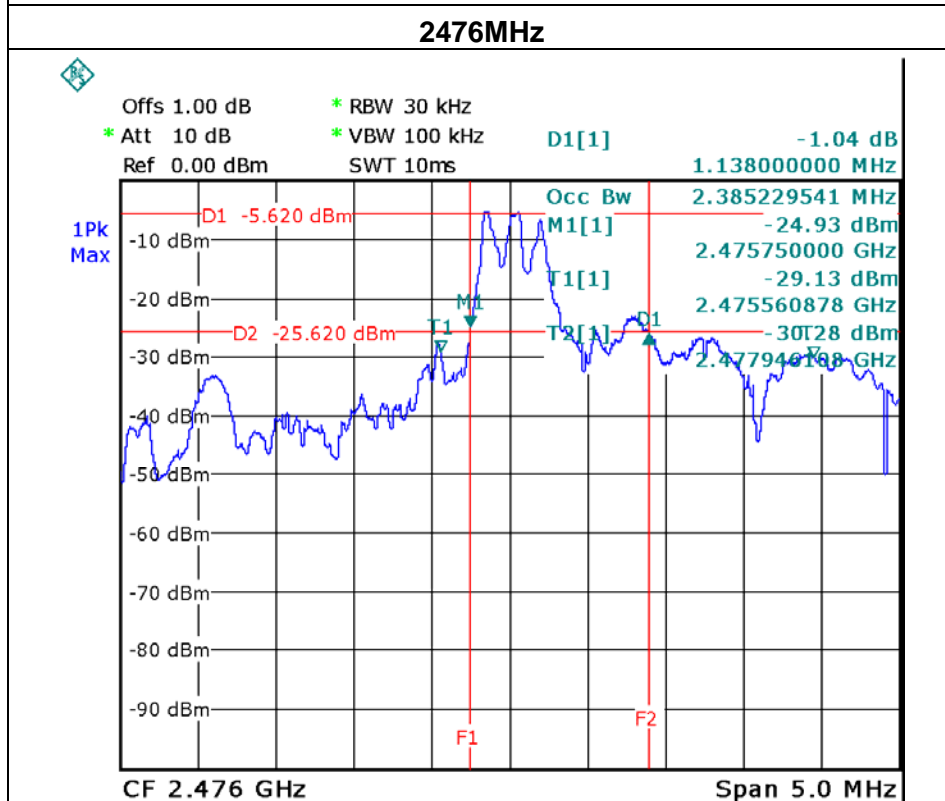
|               |                                      |                     |         |
|---------------|--------------------------------------|---------------------|---------|
| EUT :         | AFTERGLOW PS3<br>WIRELESS CONTROLLER | Model Name :        | PL-6422 |
| Temperature : | 25 °C                                | Relative Humidity : | 58 %    |
| Pressure :    | 1009 hPa                             | Test Voltage :      | DC 3.7V |
| Test Mode :   | CH01 / CH30 / CH63                   |                     |         |

| Frequency (MHz) | 20dB Bandwidth (MHz) | 99% Occupied Bandwidth (MHz) | Result      |
|-----------------|----------------------|------------------------------|-------------|
| 2409            | 1.786                | 2.345                        | <b>PASS</b> |
| 2440            | 1.996                | 2.435                        | <b>PASS</b> |
| 2476            | 1.138                | 2.385                        | <b>PASS</b> |





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**9. PEAK OUTPUT POWER TEST**

**9.1 APPLIED PROCEDURES / LIMIT**

| FCC Part15 (15.247) , Subpart C |                   |                     |                       |        |
|---------------------------------|-------------------|---------------------|-----------------------|--------|
| Section                         | Test Item         | Limit               | Frequency Range (MHz) | Result |
| 15.247 (b)(1)                   | Peak Output Power | 0.125 watt or 21dBm | 2400-2483.5           | PASS   |

**9.1.1 MEASUREMENT INSTRUMENTS LIST AND SETTING**

| Item | Kind of Equipment | Manufacturer | Type No. | Serial No. | Calibrated until |
|------|-------------------|--------------|----------|------------|------------------|
| 1    | Spectrum Analyzer | R&S          | FSP 40   | 100185     | Nov.25.2013      |

Remark: "N/A" denotes no model name, serial no. or calibration specified.  
 All calibration period of Equipment List is One Year.

**9.1.2 TEST PROCEDURE**

- a. The EUT was directly connected to the Spectrum Analyzer and antenna output port as show in the block diagram below,

**9.1.3 DEVIATION FROM STANDARD**

No deviation.

**9.1.4 TEST SETUP**



**9.1.5 EUT OPERATION CONDITIONS**

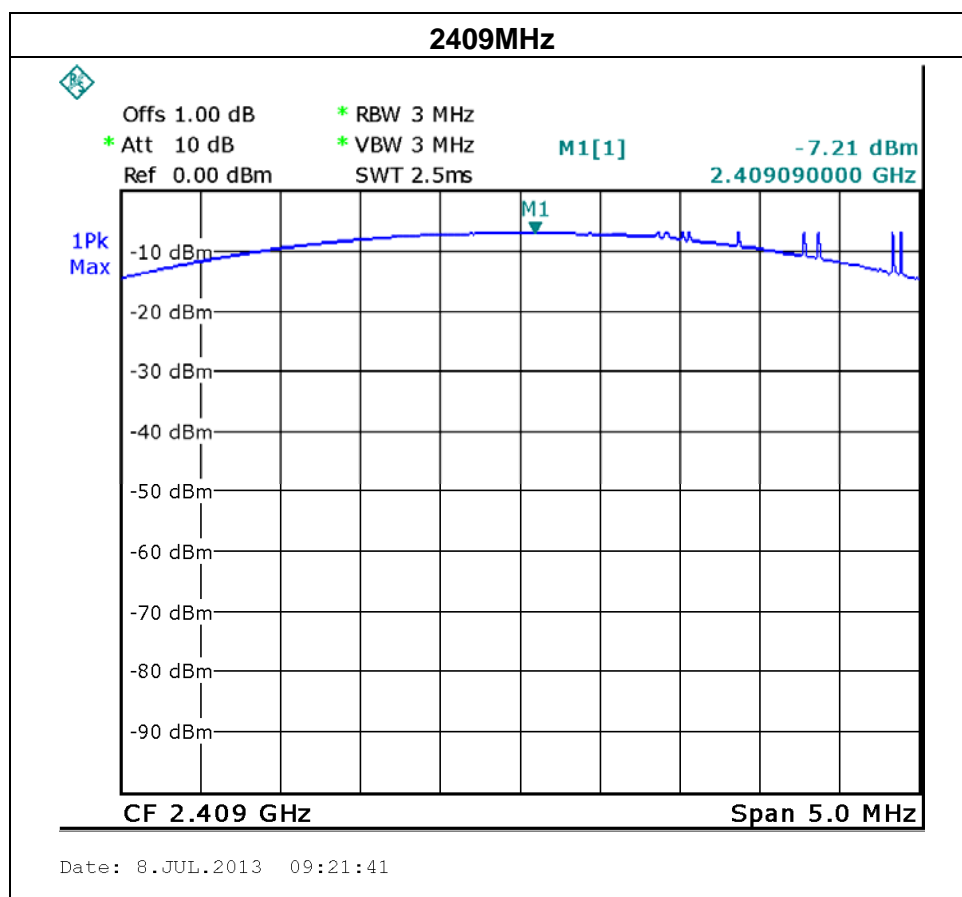
The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.

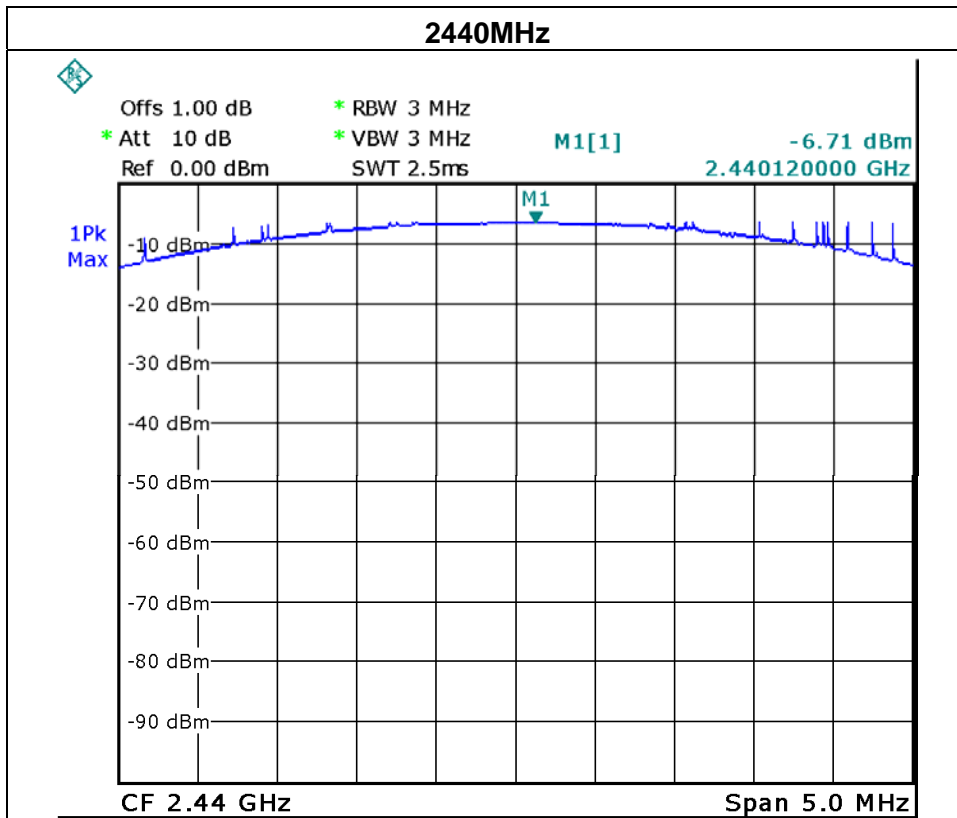


**9.1.6 TEST RESULTS**

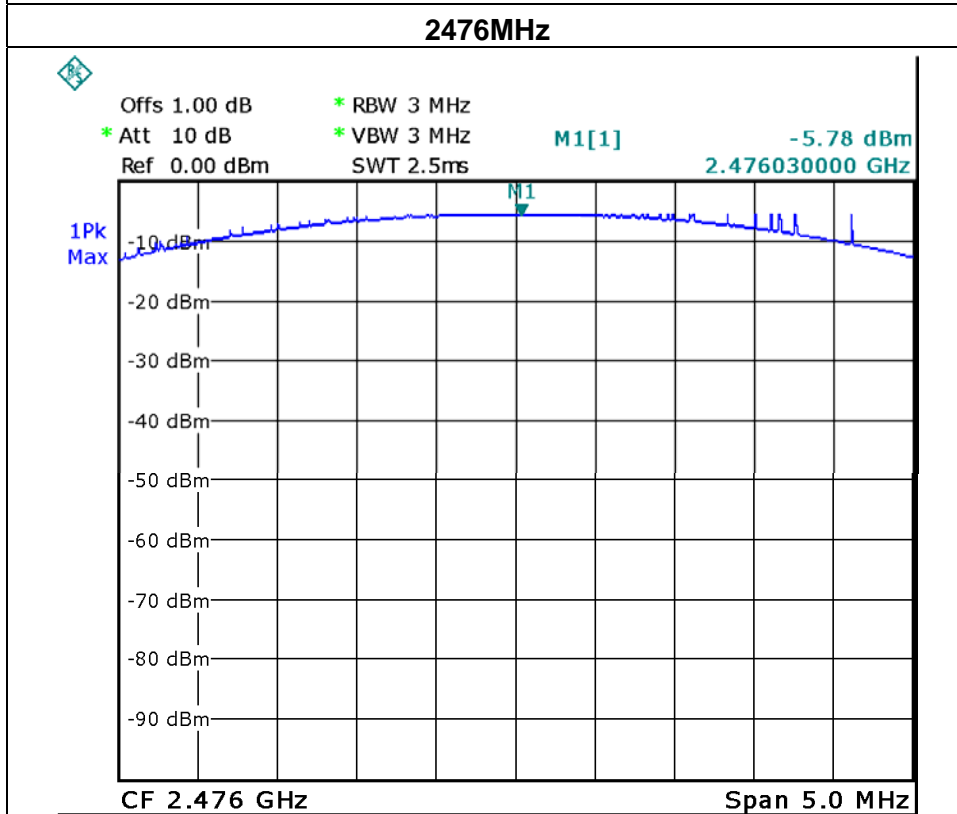
|               |                                      |                     |         |
|---------------|--------------------------------------|---------------------|---------|
| EUT :         | AFTERGLOW PS3<br>WIRELESS CONTROLLER | Model Name :        | PL-6422 |
| Temperature : | 25 °C                                | Relative Humidity : | 58 %    |
| Pressure :    | 1009 hPa                             | Test Voltage :      | DC 3.7V |
| Test Mode :   | CH01 / CH30 / CH63                   |                     |         |

| Frequency (MHz) | Peak Output Power (dBm) | LIMIT (dBm) | LIMIT (W) |
|-----------------|-------------------------|-------------|-----------|
| 2409            | -7.21                   | 21          | 0.125     |
| 2440            | -6.71                   | 21          | 0.125     |
| 2476            | -5.78                   | 21          | 0.125     |





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**10. ANTENNA CONDUCTED SPURIOUS EMISSION**

**10.1 APPLIED PROCEDURES / LIMIT**

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

| <b>Frequencies (MHz)</b> | <b>Field Strength (microrvolts/meter)</b> | <b>Measurement Distance (meters)</b> |
|--------------------------|---|--------------------------------------|
| 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                                    |

**10.1.1 MEASUREMENT INSTRUMENTS LIST AND SETTING**

| Item | Kind of Equipment | Manufacturer | Type No. | Serial No. | Calibrated until |
|------|-------------------|--------------|----------|------------|------------------|
| 1    | Spectrum Analyzer | R&S          | FSP 40   | 100185     | Nov.25.2013      |

Remark: "N/A" denotes no model name, serial no. or calibration specified.  
All calibration period of Equipment List is One Year.

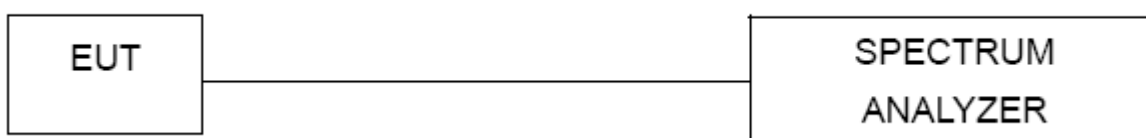
**10.1.2 TEST PROCEDURE**

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- b. Spectrum Setting : RBW= 100KHz, VBW=100KHz, Sweep time = Auto.

**10.1.3 DEVIATION FROM STANDARD**

No deviation.

**10.1.4 TEST SETUP**



**10.1.5 EUT OPERATION CONDITIONS**

The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.



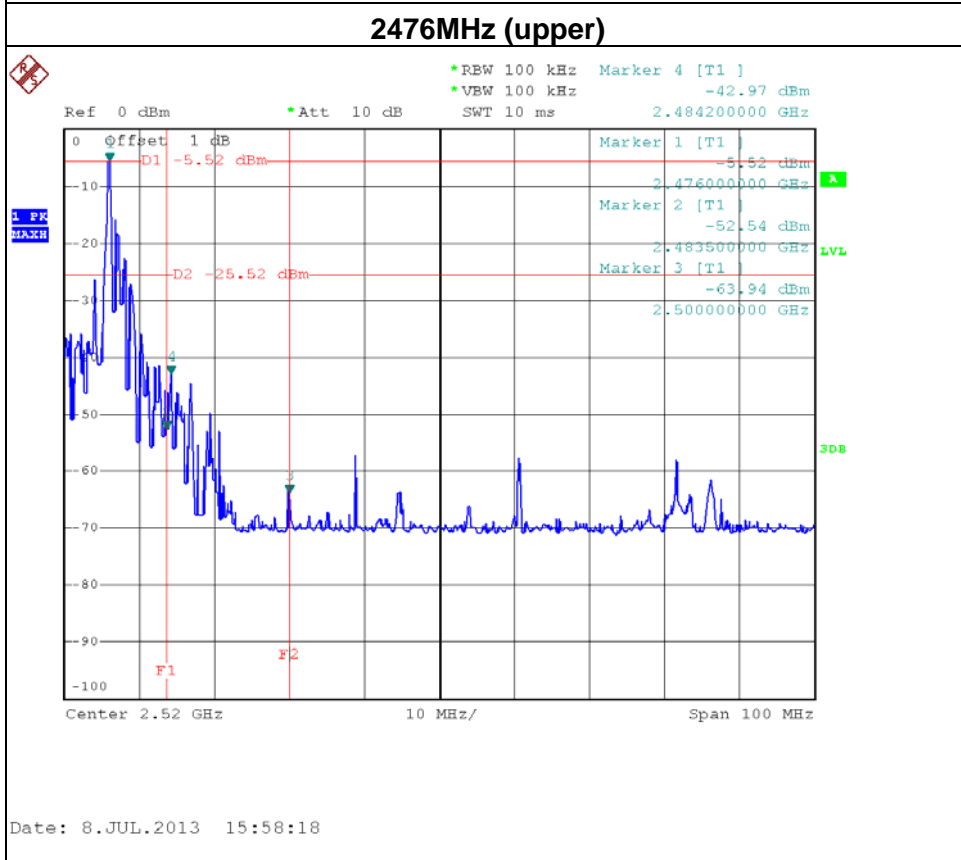
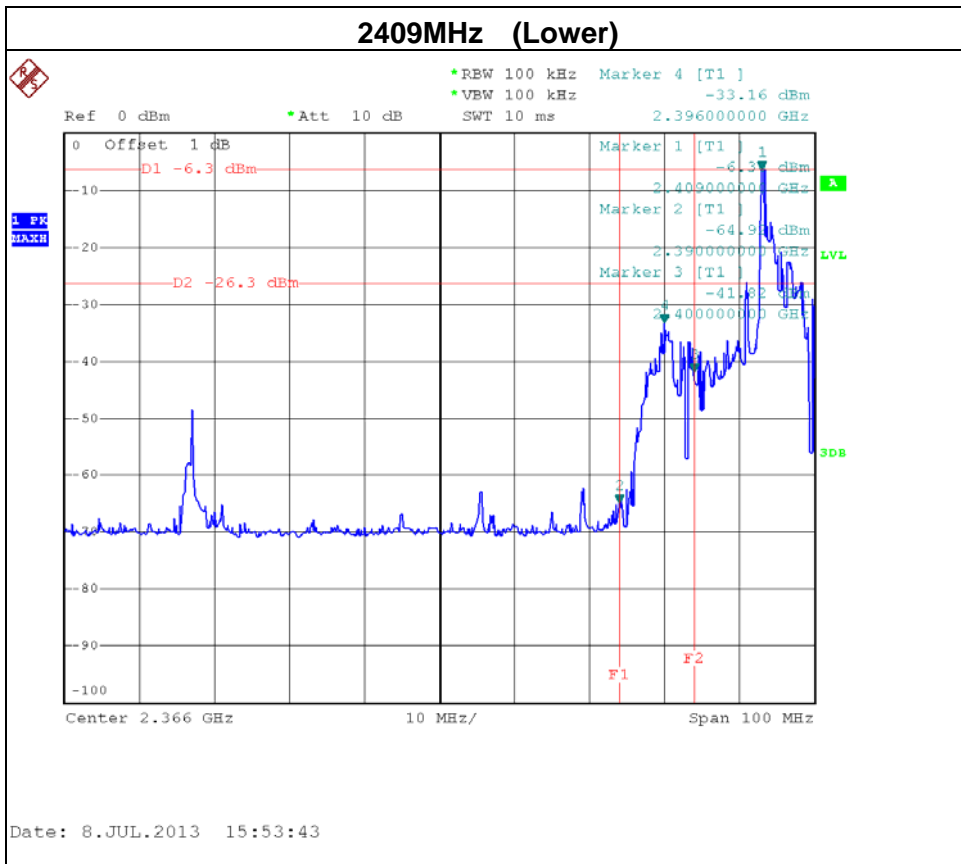
**10.1.6 TEST RESULTS**

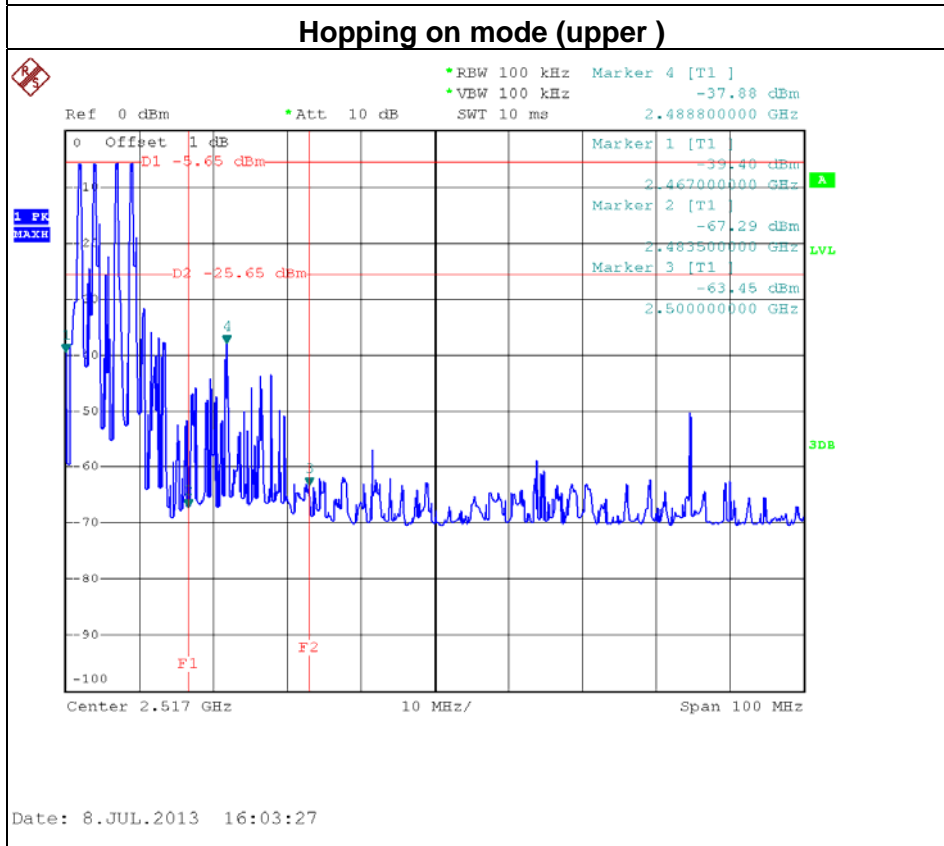
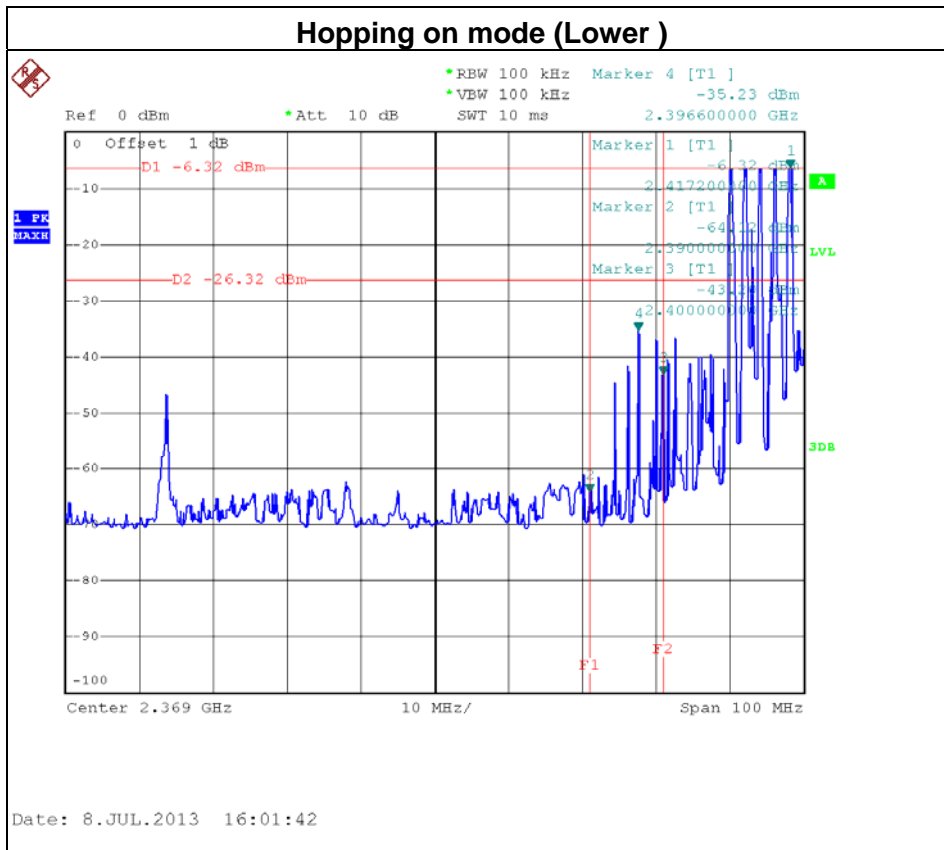
|               |                                      |                     |         |
|---------------|--------------------------------------|---------------------|---------|
| EUT :         | AFTERGLOW PS3<br>WIRELESS CONTROLLER | Model Name :        | PL-6422 |
| Temperature : | 25 °C                                | Relative Humidity : | 58 %    |
| Pressure :    | 1009 hPa                             | Test Voltage :      | DC 3.7V |
| Test Mode :   | CH01 / CH30 / CH63 & Hopping on mode |                     |         |

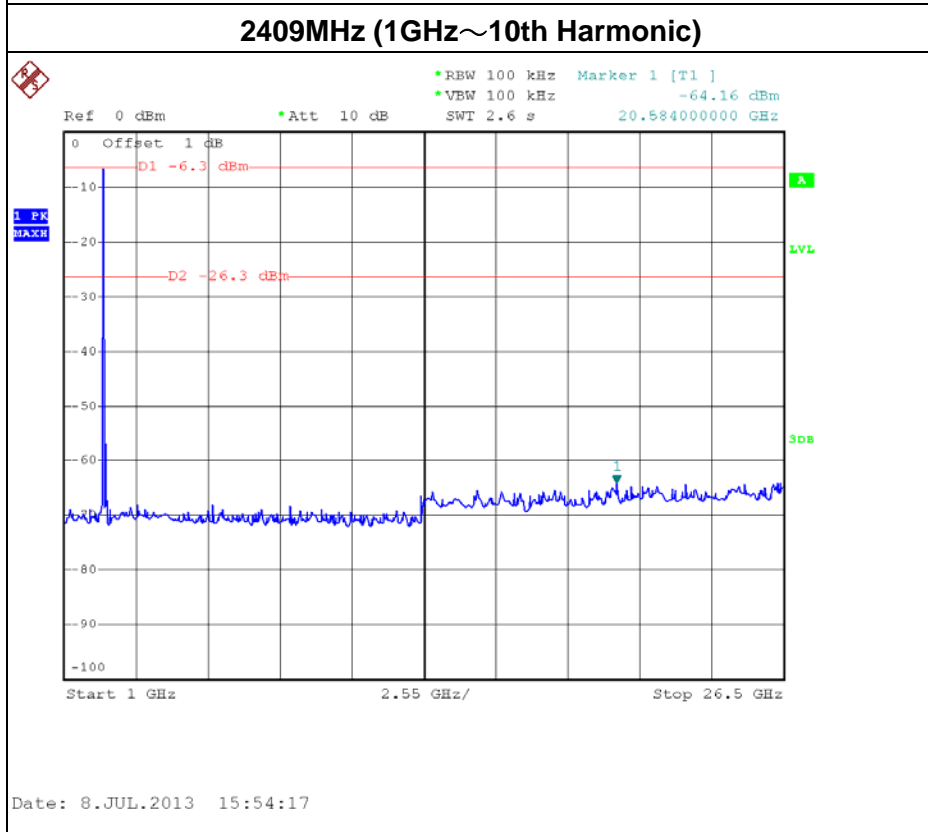
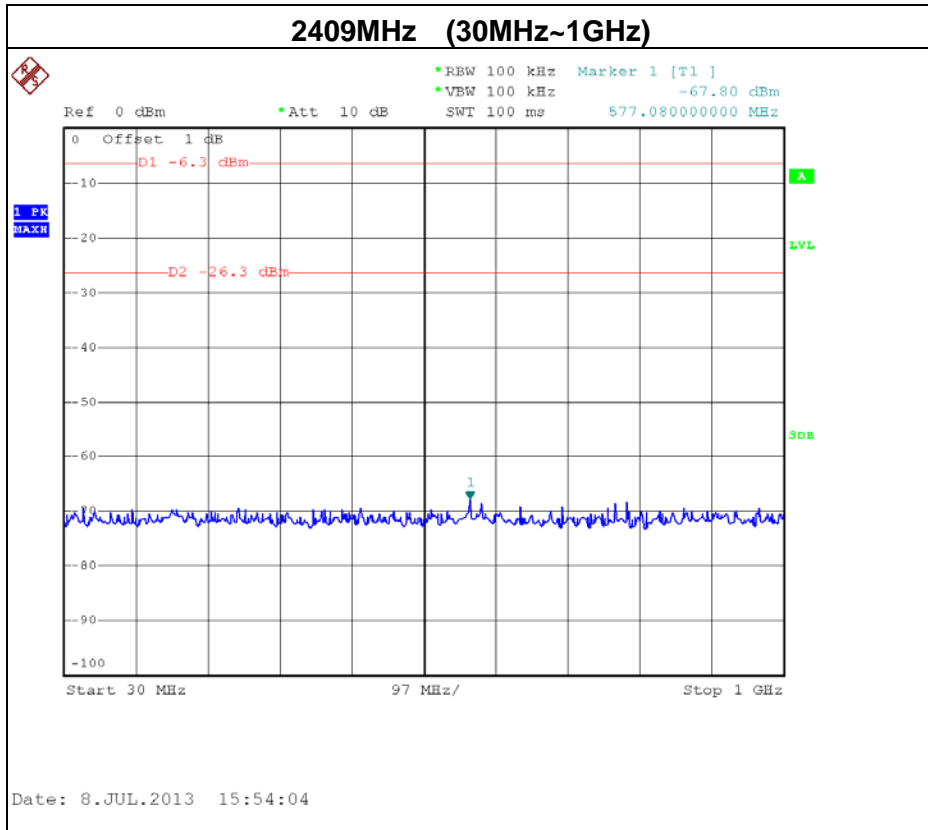
|   |            |  |            |
|---|------------|--|------------|
| The max. radio frequency power in any 100kHz bandwidth outside the frequency band |            | The max. radio frequency power in any 100 kHz bandwidth within the frequency band. |            |
| FREQUENCY(MHz)  | POWER(dBm) | FREQUENCY(MHz)   | POWER(dBm) |
| 2396.00   | -33.16     | 2484.20  | -42.97     |

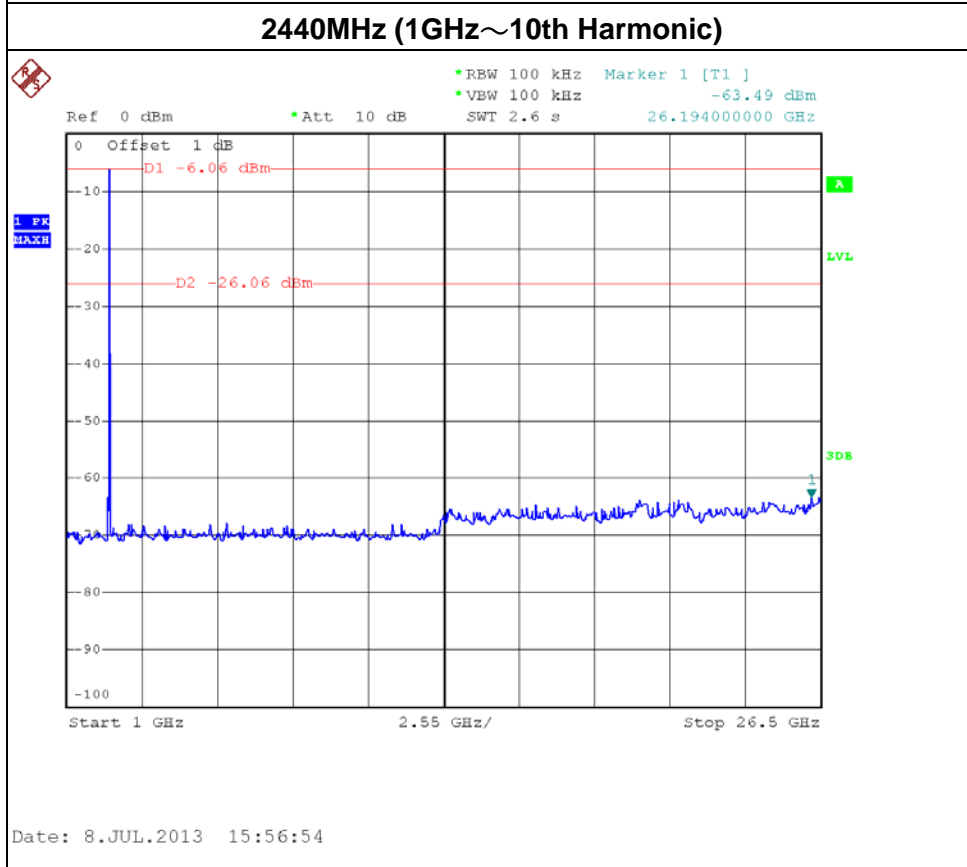
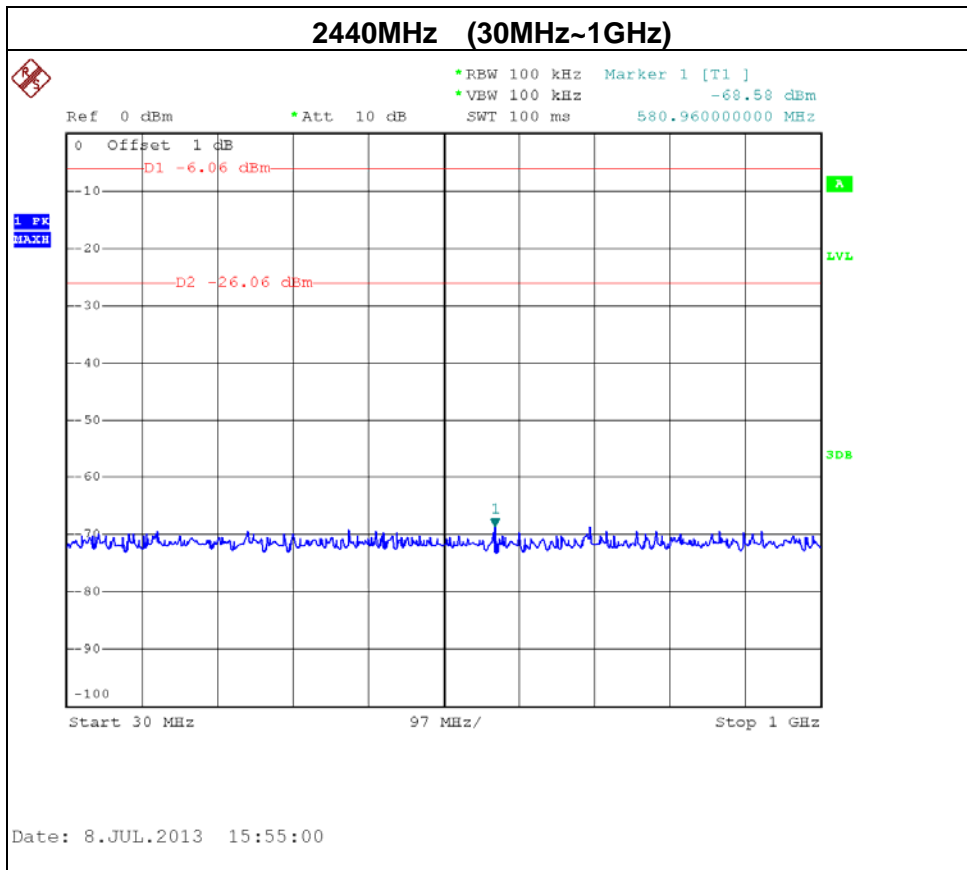
**Result**

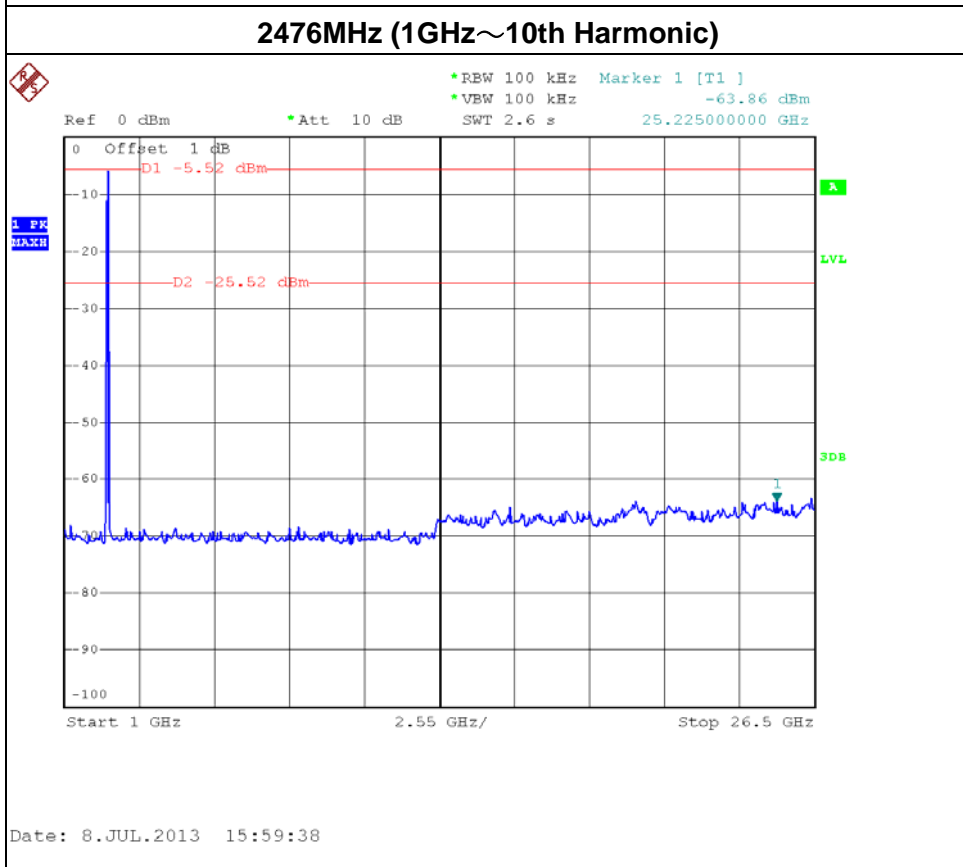
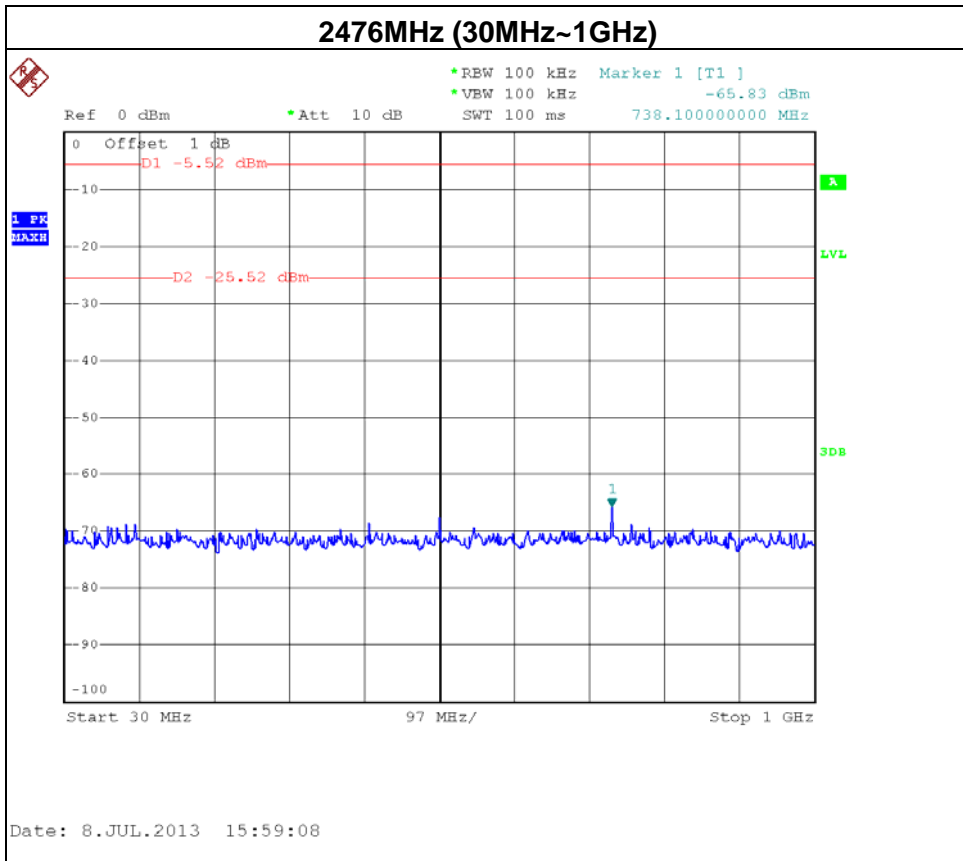
In any 100kHz bandwidth outside the frequency band, the radio frequency power is at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power.













**11. EUT PHOTOS**

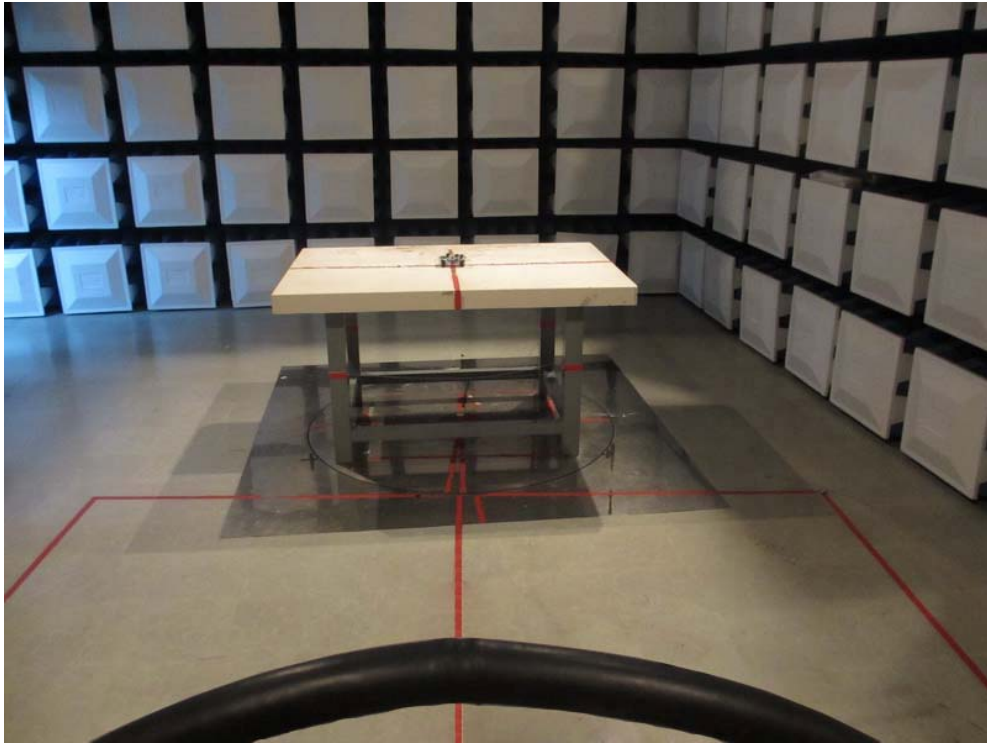
**Conducted Measurement Photos**





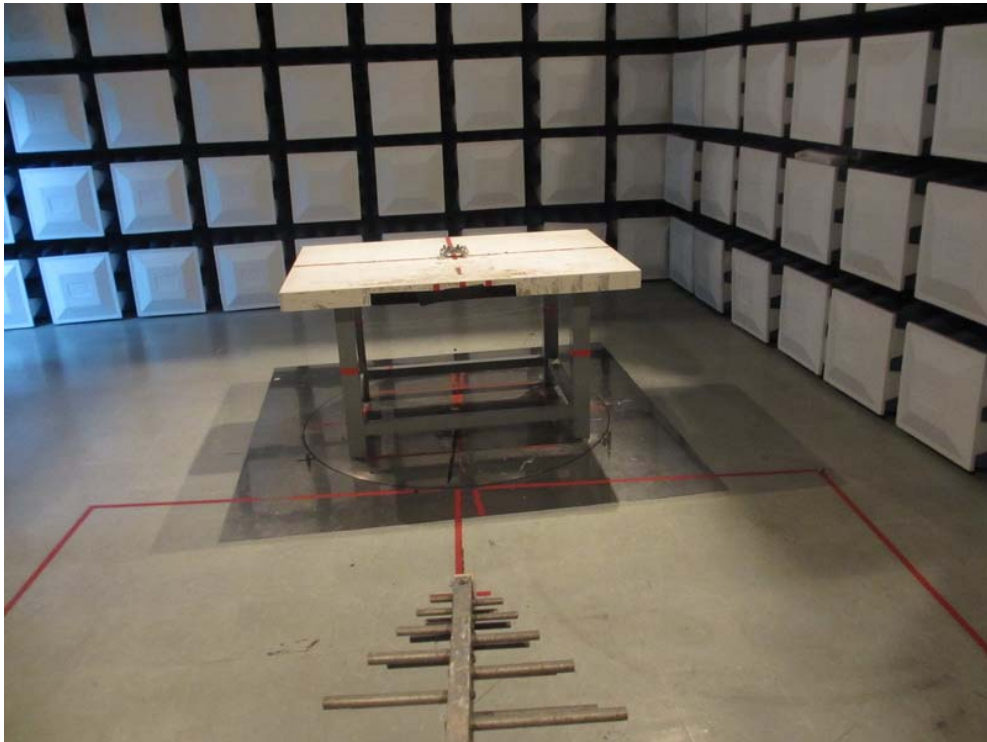
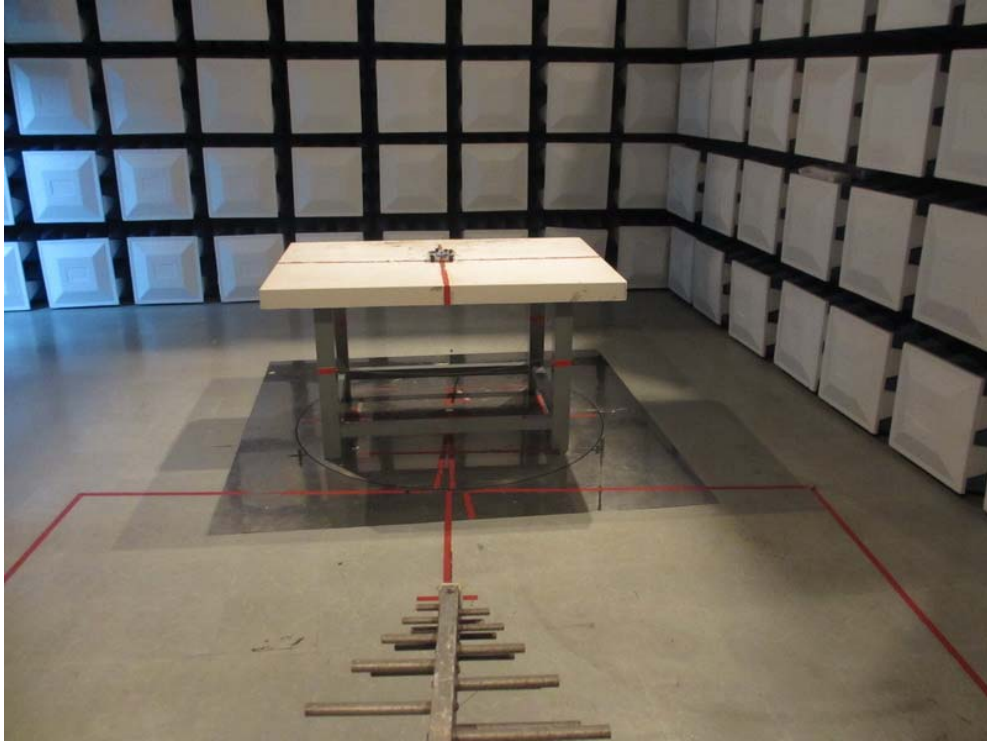


**Radiated Measurement Photos  
9K~30MHz**





**Radiated Measurement Photos  
30~1000MHz**





**Radiated Measurement Photos  
Above 1000MHz**

