

# Global United Technology Services Co., Ltd.

Report No.: GTSE15050083504

# FCC Report (Bluetooth)

Applicant: AOC

Address of Applicant: 14F-5, No. 258, Liancheng Rd., Zhonghe Dist., New Taipei

City 23511, Taiwan (R.O.C.)

**Equipment Under Test (EUT)** 

Product Name: Tablet

Model No.: U706G

Trade Mark: AOC

**FCC ID:** 2AEB5-U706G

**Applicable standards:** FCC CFR Title 47 Part 15 Subpart C Section 15.247:2014

Date of sample receipt: June 05, 2015

**Date of Test:** June 05-11, 2015

Date of report issued: June 11, 2015

Test Result : PASS \*

### Authorized Signature:



This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the GTS product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

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<sup>\*</sup> In the configuration tested, the EUT complied with the standards specified above.



### 2 Version

| Version No. | Date          | Description |
|-------------|---------------|-------------|
| 00          | June 11, 2015 | Original    |
|             |               |             |
|             |               |             |
|             |               |             |
|             |               |             |

| Prepared By: | Sam. Gao         | Date: | June 11, 2015 |
|--------------|------------------|-------|---------------|
|              | Project Engineer |       |               |
| Check By:    | hank. yan        | Date: | June 11, 2015 |



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# 4 Test Summary

| Test Item                        | Section in CFR 47 | Result |
|----------------------------------|-------------------|--------|
| Antenna requirement              | 15.203/15.247 (c) | Pass   |
| AC Power Line Conducted Emission | 15.207            | Pass   |
| Conducted Output Power           | 15.247 (b)(3)     | Pass   |
| Channel Bandwidth                | 15.247 (a)(2)     | Pass   |
| Power Spectral Density           | 15.247 (e)        | Pass   |
| Band Edge                        | 15.247(d)         | Pass   |
| Spurious Emission                | 15.205/15.209     | Pass   |

Pass: The EUT complies with the essential requirements in the standard.

### 4.1 Measurement Uncertainty

| Test Item   | Frequency Range | Measurement Uncertainty | Notes |  |  |  |
|---|-----------------|-------------------------|-------|--|--|--|
| Radiated Emission   | 9kHz ~ 30MHz    | ± 4.34dB                | (1)   |  |  |  |
| Radiated Emission   | 30MHz ~ 1000MHz | ± 4.24dB                | (1)   |  |  |  |
| Radiated Emission   | 1GHz ~ 26.5GHz  | ± 4.68dB                | (1)   |  |  |  |
| AC Power Line Conducted Emission  | 0.15MHz ~ 30MHz | ± 3.45dB                | (1)   |  |  |  |
| Note (1): The measurement uncertainty is for coverage factor of k=2 and a level of confidence of 95%. |                 |                         |       |  |  |  |



### **5** General Information

### 5.1 Client Information

| Applicant:               | AOC   |
|--------------------------|---|
| Address of Applicant:    | 14F-5, No. 258, Liancheng Rd., Zhonghe Dist., New Taipei City 23511, Taiwan (R.O.C.)                        |
| Manufacturer:            | New Flying  |
| Address of Manufacturer: | 10/F Block C,Tairan Building,Tairan 8 Road, Chegongmiao, District, Shenzhen City, Guangdong Province, China |

# 5.2 General Description of EUT

| Product Name:        | Tablet                                |
|----------------------|---------------------------------------|
| Model No.:           | U706G                                 |
| Operation Frequency: | 2402MHz~2480MHz                       |
| Channel Numbers:     | 40                                    |
| Channel Separation:  | 2MHz                                  |
| Modulation Type:     | GFSK                                  |
| Antenna Type:        | PIFA antenna                          |
| Antenna Gain:        | 2dBi (declare by Applicant)           |
| Power Supply:        | Model No.: XFY-01                     |
|                      | Input: AC 100-240V, 50/60Hz, 0.4A MAX |
|                      | Output: DC 5.0V, 1.5A                 |
|                      | DC 3.7V Li-ion Battery 2800mAh        |

No. 300 Laodong Industrial Zone, Xixiang Road, Baoan District, Shenzhen 518102 Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960



| Operation Frequency each of channel |           |         |           |         |           |         |           |
|-------------------------------------|-----------|---------|-----------|---------|-----------|---------|-----------|
| Channel                             | Frequency | Channel | Frequency | Channel | Frequency | Channel | Frequency |
| 1                                   | 2402MHz   | 11      | 2422MHz   | 21      | 2442MHz   | 31      | 2462MHz   |
| 2                                   | 2404MHz   | 12      | 2424MHz   | 22      | 2444MHz   | 32      | 2464MHz   |
|                                     | • !       |         | • !       |         |           |         | • !       |
| 9                                   | 2418MHz   | 19      | 2438MHz   | 29      | 2458MHz   | 39      | 2478MHz   |
| 10                                  | 2420MHz   | 20      | 2440MHz   | 30      | 2460MHz   | 40      | 2480MHz   |

### Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

| Channel             | Frequency |
|---------------------|-----------|
| The lowest channel  | 2402MHz   |
| The middle channel  | 2440MHz   |
| The Highest channel | 2480MHz   |

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### 5.3 Test mode

| Transmitting mode                                  | Keep the EUT in continuously transmitting mode |  |  |
|--|--|--|--|
| Remark: During the test, the new battery was used. |  |  |  |

### 5.4 Description of Support Units

None

### 5.5 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

### • FCC —Registration No.: 600491

Global United Technology Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fuly described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in files. Registration 600491, June 28, 2013.

### • Industry Canada (IC) —Registration No.: 9079A-2

The 3m Semi-anechoic chamber of Global United Technology Services Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 9079A-2, June 26, 2013.

### 5.6 Test Location

All tests were performed at:

Global United Technology Services Co., Ltd.

Address: Room 301-309, 3th Floor, Block A, Huafeng Jinyuan Business Building, No. 300 Laodong

Industrial Zone, Xixiang Road, Baoan District, Shenzhen 518102

Tel: 0755-27798480 Fax: 0755-27798960



### 6 Test Instruments list

| Radiated Emission: |                                  |                                |                             |                  |                        |                            |  |
|--------------------|----------------------------------|--------------------------------|-----------------------------|------------------|------------------------|----------------------------|--|
| Item               | Test Equipment                   | Manufacturer                   | Model No.                   | Inventory<br>No. | Cal.Date<br>(mm-dd-yy) | Cal.Due date<br>(mm-dd-yy) |  |
| 1                  | 3m Semi- Anechoic<br>Chamber     | ZhongYu Electron               | 9.2(L)*6.2(W)* 6.4(H)       | GTS250           | Mar. 27 2015           | Mar. 26 2016               |  |
| 2                  | Control Room                     | ZhongYu Electron               | 6.2(L)*2.5(W)* 2.4(H)       | GTS251           | N/A                    | N/A                        |  |
| 3                  | Spectrum Analyzer                | Agilent                        | E4440A                      | GTS533           | Dec. 4 2014            | Dec. 3 2015                |  |
| 4                  | EMI Test Receiver                | Rohde & Schwarz                | ESU26                       | GTS203           | July 01 2014           | June 30 2015               |  |
| 5                  | BiConiLog Antenna                | SCHWARZBECK<br>MESS-ELEKTRONIK | VULB9163                    | GTS214           | July 01 2014           | June 30 2015               |  |
| 6                  | Double -ridged waveguide<br>horn | SCHWARZBECK<br>MESS-ELEKTRONIK | 9120D-829                   | GTS208           | June 27 2014           | June 26 2015               |  |
| 7                  | Horn Antenna                     | ETS-LINDGREN                   | 3160                        | GTS217           | Mar. 28 2014           | Mar. 27 2015               |  |
| 8                  | EMI Test Software                | AUDIX                          | E3                          | N/A              | N/A                    | N/A                        |  |
| 9                  | Coaxial Cable                    | GTS                            | N/A                         | GTS213           | Mar. 27 2015           | Mar. 26 2016               |  |
| 10                 | Coaxial Cable                    | GTS                            | N/A                         | GTS211           | Mar. 28 2015           | Mar. 27 2016               |  |
| 11                 | Coaxial cable                    | GTS                            | N/A                         | GTS210           | Mar. 28 2015           | Mar. 27 2016               |  |
| 12                 | Coaxial Cable                    | GTS                            | N/A                         | GTS212           | Mar. 28 2015           | Mar. 27 2016               |  |
| 13                 | Amplifier(100kHz-3GHz)           | HP                             | 8347A                       | GTS204           | July 01 2014           | June 30 2015               |  |
| 14                 | Amplifier(2GHz-20GHz)            | HP                             | 8349B                       | GTS206           | July 01 2014           | June 30 2015               |  |
| 15                 | Amplifier (18-26GHz)             | Rohde & Schwarz                | AFS33-18002<br>650-30-8P-44 | GTS218           | June 27 2014           | June 26 2015               |  |
| 16                 | Band filter                      | Amindeon                       | 82346                       | GTS219           | Mar. 28 2015           | Mar. 27 2016               |  |

| Con  | Conducted Emission:      |                                |                      |                  |                        |                         |  |  |
|------|--------------------------|--------------------------------|----------------------|------------------|------------------------|-------------------------|--|--|
| Item | Test Equipment           | Manufacturer                   | Model No.            | Inventory<br>No. | Cal.Date<br>(mm-dd-yy) | Cal.Due date (mm-dd-yy) |  |  |
| 1    | Shielding Room           | ZhongYu Electron               | 7.0(L)x3.0(W)x3.0(H) | GTS264           | Sep. 07 2013           | Sep. 06 2015            |  |  |
| 2    | <b>EMI Test Receiver</b> | Rohde & Schwarz                | ESCS30               | GTS223           | July 01 2014           | June 30 2015            |  |  |
| 3    | 10dB Pulse Limita        | Rohde & Schwarz                | N/A                  | GTS224           | July 01 2014           | June 30 2015            |  |  |
| 4    | Coaxial Switch           | ANRITSU CORP                   | MP59B                | GTS225           | July 01 2014           | June 30 2015            |  |  |
| 5    | LISN                     | SCHWARZBECK<br>MESS-ELEKTRONIK | NSLK 8127            | GTS226           | July 01 2014           | June 30 2015            |  |  |
| 6    | Coaxial Cable            | GTS                            | N/A                  | GTS227           | July 01 2014           | June 30 2015            |  |  |
| 7    | EMI Test Software        | AUDIX                          | E3                   | N/A              | N/A                    | N/A                     |  |  |

| Gen  | General used equipment:          |           |           |                  |                        |                            |  |  |  |  |  |
|------|----------------------------------|-----------|-----------|------------------|------------------------|----------------------------|--|--|--|--|--|
| Item | Item Test Equipment Manufacturer |           | Model No. | Inventory<br>No. | Cal.Date<br>(mm-dd-yy) | Cal.Due date<br>(mm-dd-yy) |  |  |  |  |  |
| 1    | Barometer                        | ChangChun | DYM3      | GTS257           | July 08 2014           | July 07 2015               |  |  |  |  |  |

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### 7 Test results and Measurement Data

### 7.1 Antenna requirement

**Standard requirement:** FCC Part15 C Section 15.203 /247(c)

#### 15.203 requirement:

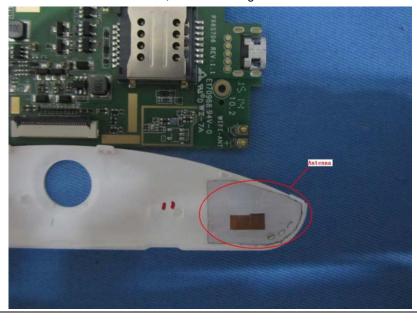
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

### 15.247(c) (1)(i) requirement:

(i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.

#### **EUT Antenna:**

The antenna is PIFA antenna, the best case gain of the antenna is 2dBi





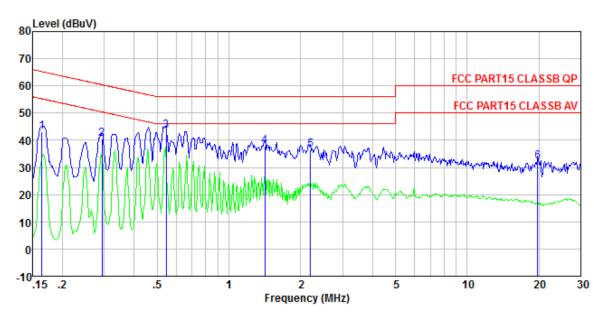
### 7.2 Conducted Emissions

| Test Requirement:     | FCC Part15 C Section 15.207   | ,                       |                      |  |  |  |  |
|-----------------------|---|-------------------------|----------------------|--|--|--|--|
| Test Method:          | ANSI C63.10:2009  |                         |                      |  |  |  |  |
| Test Frequency Range: | 150KHz to 30MHz   |                         |                      |  |  |  |  |
|                       | Class B   |                         |                      |  |  |  |  |
| Class / Severity:     | RBW=9KHz, VBW=30KHz, Sv   | woon time-oute          |                      |  |  |  |  |
| Receiver setup:       | KBW=9KH2, VBW=30KH2, 3V   |                         | ID 10                |  |  |  |  |
| Limit:                | Frequency range (MHz)   | Limit (c                |                      |  |  |  |  |
|                       | 0.15-0.5  | Quasi-peak<br>66 to 56* | Average<br>56 to 46* |  |  |  |  |
|                       | 0.5-5   | 56                      | 46                   |  |  |  |  |
|                       | 5-30  | 60                      | 50                   |  |  |  |  |
|                       | * Decreases with the logarithm  | n of the frequency.     | <u> </u>             |  |  |  |  |
| Test setup:           | Reference Plane   |                         |                      |  |  |  |  |
|                       | AUX Equipment E.U.T  Test table/Insulation plane  Remark: E U.T. Equipment Under Test LISN. Line Impedence Stabilization Network Test table height=0.8m   |                         |                      |  |  |  |  |
| Test procedure:       | <ol> <li>The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 500hm/50uH coupling impedance for the measuring equipment.</li> <li>The peripheral devices are also connected to the main power through a LISN that provides a 500hm/50uH coupling impedance with 500hm termination. (Please refer to the block diagram of the test setup and photographs).</li> <li>Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed</li> </ol> |                         |                      |  |  |  |  |
|                       | according to ANSI C63.10:   | 2009 on conducted me    | easurement.          |  |  |  |  |
| Test Instruments:     | Refer to section 6.0 for details  |                         |                      |  |  |  |  |
| Test mode:            | Refer to section 5.3 for details  |                         |                      |  |  |  |  |
| Test results:         | Pass  |                         |                      |  |  |  |  |



### Measurement data

Line:



Site

: Shielded room : FCC PART15 CLASSB QP LISN-2013 LINE Condition

: 0835RF

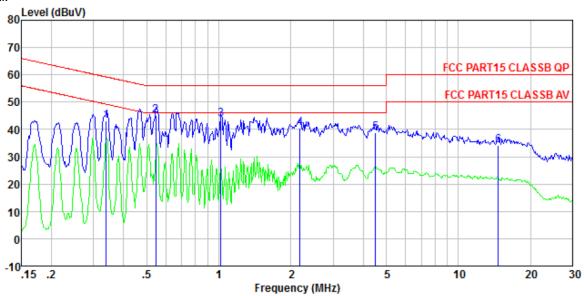
Job No. Test mode : Bluetooth4.0 mode

Test Engineer: Qing

|             | Freq  |       | LISN<br>Factor |      |       |                | Over<br>Limit | Remark |
|-------------|-------|-------|----------------|------|-------|----------------|---------------|--------|
|             | MHz   | dBu₹  | dB             | ₫B   | dBuV  | dBuV           | dB            |        |
| 1<br>2<br>3 | 0.294 |       | 0.15<br>0.11   | 0.10 | 40.46 | 60.41          | -19.95        | QP     |
| 3<br>4<br>5 | 1.418 | 37.56 | 0.13<br>0.12   | 0.13 | 37.81 | 56.00          | -18.19        | QP     |
| 5<br>6      |       |       | 0.12<br>0.59   |      |       | 56.00<br>60.00 |               |        |



#### Neutral:



Site : Shielded room

Condition : FCC PART15 CLASSB QP LISN-2013 NEUTRAL

Job No. : 0835RF

Test mode : Bluetooth4.0. mode

Test Engineer: Qing

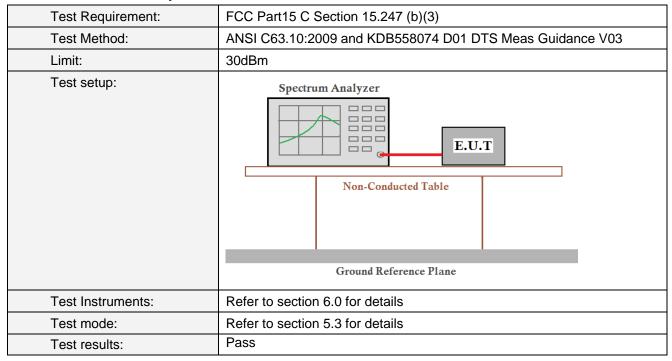
|                            | Freq                       |  | LISN<br>Factor       |                              |      | Limit<br>Line                    | Over<br>Limit  | Remark               |
|----------------------------|----------------------------|--|----------------------|------------------------------|------|----------------------------------|--|----------------------|
|                            | MHz                        | dBuV   | dB                   | d₿                           | dBuV | dBuV                             | dB   |                      |
| 1<br>2<br>3<br>4<br>5<br>6 | 1. 021<br>2. 178<br>4. 501 | 42. 96<br>44. 81<br>43. 74<br>40. 17<br>38. 49<br>33. 52 | 0.07<br>0.09<br>0.15 | 0.11<br>0.13<br>0.15<br>0.15 |      | 56.00<br>56.00<br>56.00<br>56.00 | -16.10<br>-11.01<br>-12.06<br>-15.59<br>-17.21<br>-25.93 | QP<br>QP<br>QP<br>QP |

### Notes:

- 1. An initial pre-scan was performed on the line and neutral lines with peak detector.
- 2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
- 3. Final Level =Receiver Read level + LISN Factor + Cable Loss
- 4. If the average limit is met when using a quasi-peak detector receiver, the EUT shall be deemed to meet both limits and measurement with the average detector receiver is unnecessary.



### 7.3 Conducted Output Power



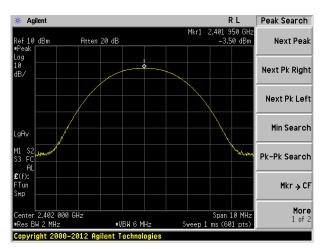
### **Measurement Data**

| Test channel | Peak Output Power (dBm) | Limit(dBm) | Result |  |
|--------------|-------------------------|------------|--------|--|
| Lowest       | -3.50                   |            |        |  |
| Middle       | -3.54                   | 30.00      | Pass   |  |
| Highest      | -3.83                   |            |        |  |

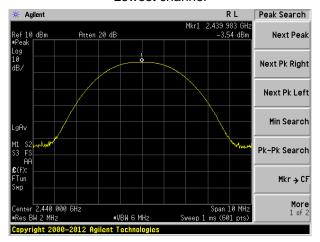
Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960



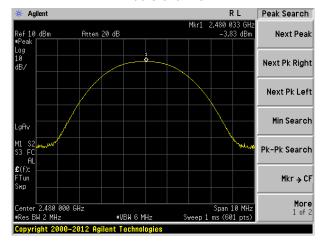
### Test plot as follows:



### Lowest channel



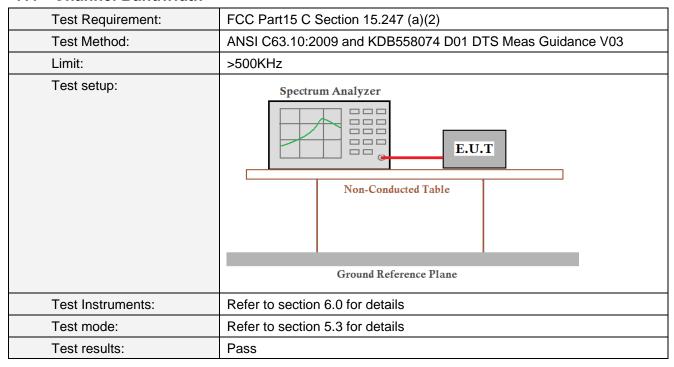
#### Middle channel



Highest channel



### 7.4 Channel Bandwidth

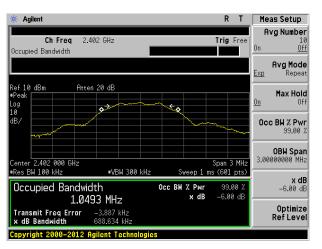


### **Measurement Data**

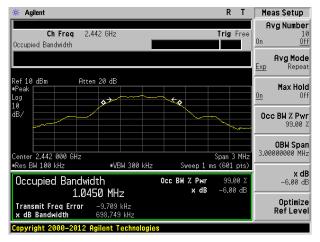
| Test channel | Channel Bandwidth (KHz) | Limit(KHz) | Result |  |
|--------------|-------------------------|------------|--------|--|
| Lowest       | 688.634                 |            |        |  |
| Middle       | 698.749                 | >500       | Pass   |  |
| Highest      | 692.142                 |            |        |  |



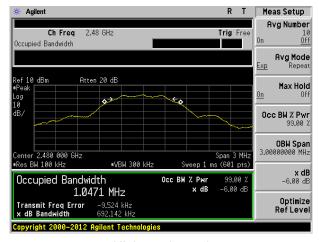
### Test plot as follows:



### Lowest channel



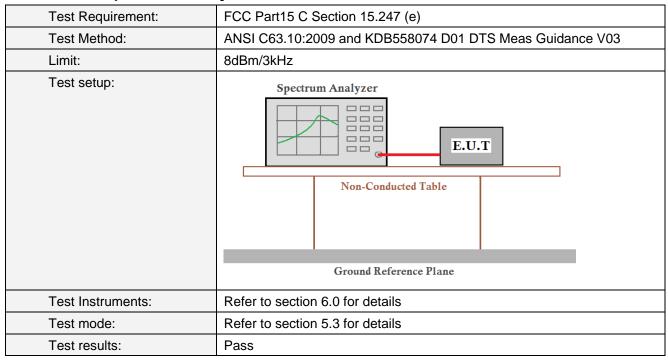
### Middle channel



Highest channel



### 7.5 Power Spectral Density

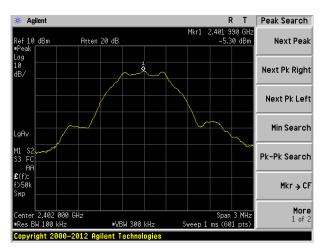


### **Measurement Data**

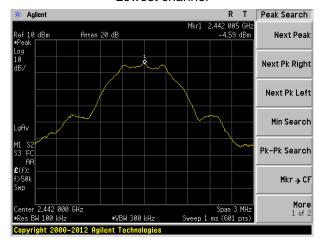
| Test channel | Power Spectral Density (dBm) | Limit(dBm/3kHz) | Result |
|--------------|------------------------------|-----------------|--------|
| Lowest       | -5.30                        |                 |        |
| Middle       | -4.59                        | 8.00            | Pass   |
| Highest      | -5.15                        |                 |        |



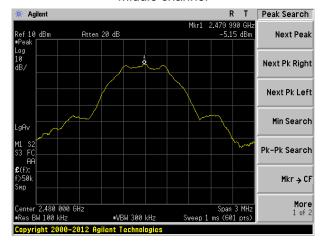
### Test plot as follows:



### Lowest channel



#### Middle channel



Highest channel

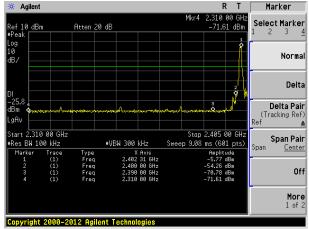


### 7.6 Band edges

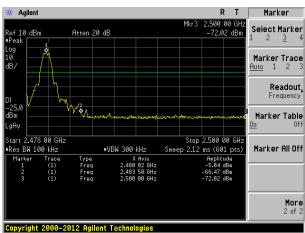
### 7.6.1 Conducted Emission Method

| Test Requirement: | FCC Part15 C Section 15.247 (d)   |  |  |  |  |
|-------------------|---|--|--|--|--|
| Test Method:      | ANSI C63.10:2009 and KDB558074 D01 DTS Meas Guidance V03  |  |  |  |  |
| Limit:            | In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. |  |  |  |  |
| Test setup:       | Spectrum Analyzer  E.U.T  Non-Conducted Table  Ground Reference Plane   |  |  |  |  |
| Test Instruments: | Refer to section 6.0 for details  |  |  |  |  |
| Test mode:        | Refer to section 5.3 for details  |  |  |  |  |
| Test results:     | Pass  |  |  |  |  |

### Test plot as follows:







Highest channel



### 7.6.2 Radiated Emission Method

| Test Requirement:     | FCC Part15 C S   | Section 15.209  | and 15.205  |         |         |  |  |
|-----------------------|--|-----------------|-------------|---------|---------|--|--|
| Test Method:          | ANSI C63.10:2009   |                 |             |         |         |  |  |
| Test Frequency Range: | All of the restrict bands were tested, only the worst band's (2310MHz to 2500MHz) data was showed. |                 |             |         |         |  |  |
| Test site:            | Measurement D  |                 |             |         |         |  |  |
| Receiver setup:       | Frequency  | Detector        | RBW         | VBW     | Value   |  |  |
| •                     |  | Peak            | 1MHz        | 3MHz    | Peak    |  |  |
|                       | Above 1GHz   | RMS             | 1MHz        | 3MHz    | Average |  |  |
| Limit:                | Freque   | ency            | Limit (dBuV | /m @3m) | Value   |  |  |
|                       | Above 1  | GHz             | 54.0        |         | Average |  |  |
|                       |  |                 | 74.0        | 0       | Peak    |  |  |
| Test setup:           | EUT Turn Table   | Turn 0 8m lm    |             |         |         |  |  |
| Test Procedure:       | 0.8m :   |                 |             |         |         |  |  |
| Test Instruments:     | Refer to section   |                 |             |         |         |  |  |
| Test mode:            | Refer to section   | 5.3 for details | <b>i</b>    |         |         |  |  |
| Test results:         | Pass   |                 |             |         |         |  |  |

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### Measurement data:

Remark: The pre-test were performed on lowest, middle and highest frequencies, only the worst case's (lowest and highest frequencies) data was showed.

| Test channel: Lowest |  |
|----------------------|--|
|----------------------|--|

### Peak value:

| Frequency<br>(MHz) | Read<br>Level<br>(dBuV) | Antenna<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | Preamp<br>Factor<br>(dB) | Level<br>(dBuV/m) | Limit Line<br>(dBuV/m) | Over<br>Limit<br>(dB) | Polarization |
|--------------------|-------------------------|-----------------------------|-----------------------|--------------------------|-------------------|------------------------|-----------------------|--------------|
| 2390.00            | 37.33                   | 27.59                       | 5.38                  | 30.18                    | 40.12             | 74.00                  | -33.88                | Horizontal   |
| 2400.00            | 53.32                   | 27.58                       | 5.39                  | 30.18                    | 56.11             | 74.00                  | -17.89                | Horizontal   |
| 2390.00            | 37.35                   | 27.59                       | 5.38                  | 30.18                    | 40.14             | 74.00                  | -33.86                | Vertical     |
| 2400.00            | 54.77                   | 27.58                       | 5.39                  | 30.18                    | 57.56             | 74.00                  | -16.44                | Vertical     |

### Average value:

| Frequency<br>(MHz) | Read<br>Level<br>(dBuV) | Antenna<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | Preamp<br>Factor<br>(dB) | Level<br>(dBuV/m) | Limit Line<br>(dBuV/m) | Over<br>Limit<br>(dB) | Polarization |
|--------------------|-------------------------|-----------------------------|-----------------------|--------------------------|-------------------|------------------------|-----------------------|--------------|
| 2390.00            | 29.13                   | 27.59                       | 5.38                  | 30.18                    | 31.92             | 54.00                  | -22.08                | Horizontal   |
| 2400.00            | 40.04                   | 27.58                       | 5.39                  | 30.18                    | 42.83             | 54.00                  | -11.17                | Horizontal   |
| 2390.00            | 28.68                   | 27.59                       | 5.38                  | 30.18                    | 31.47             | 54.00                  | -22.53                | Vertical     |
| 2400.00            | 41.16                   | 27.58                       | 5.39                  | 30.18                    | 43.95             | 54.00                  | -10.05                | Vertical     |

| Toot obonnol: | ab a at |
|---------------|---------|
| Test channel: | ahest   |

### Peak value:

| Frequency<br>(MHz) | Read<br>Level<br>(dBuV) | Antenna<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | Preamp<br>Factor<br>(dB) | Level<br>(dBuV/m) | Limit Line<br>(dBuV/m) | Over<br>Limit<br>(dB) | Polarization |
|--------------------|-------------------------|-----------------------------|-----------------------|--------------------------|-------------------|------------------------|-----------------------|--------------|
| 2483.50            | 38.77                   | 27.53                       | 5.47                  | 29.93                    | 41.84             | 74.00                  | -32.16                | Horizontal   |
| 2500.00            | 39.00                   | 27.55                       | 5.49                  | 29.93                    | 42.11             | 74.00                  | -31.89                | Horizontal   |
| 2483.50            | 38.69                   | 27.53                       | 5.47                  | 29.93                    | 41.76             | 74.00                  | -32.24                | Vertical     |
| 2500.00            | 39.47                   | 27.55                       | 5.49                  | 29.93                    | 42.58             | 74.00                  | -31.42                | Vertical     |

### Average value:

| Frequency<br>(MHz) | Read<br>Level<br>(dBuV) | Antenna<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | Preamp<br>Factor<br>(dB) | Level<br>(dBuV/m) | Limit Line<br>(dBuV/m) | Over<br>Limit<br>(dB) | Polarization |
|--------------------|-------------------------|-----------------------------|-----------------------|--------------------------|-------------------|------------------------|-----------------------|--------------|
| 2483.50            | 31.90                   | 27.53                       | 5.47                  | 29.93                    | 34.97             | 54.00                  | -19.03                | Horizontal   |
| 2500.00            | 30.69                   | 27.55                       | 5.49                  | 29.93                    | 33.80             | 54.00                  | -20.20                | Horizontal   |
| 2483.50            | 32.64                   | 27.53                       | 5.47                  | 29.93                    | 35.71             | 54.00                  | -18.29                | Vertical     |
| 2500.00            | 30.15                   | 27.55                       | 5.49                  | 29.93                    | 33.26             | 54.00                  | -20.74                | Vertical     |

#### Remark:

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.

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### 7.7 Spurious Emission

### 7.7.1 Conducted Emission Method

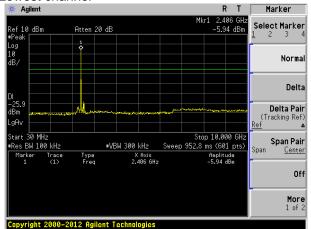
| Test Requirement: | FCC Part15 C Section 15.247 (d)   |  |  |  |  |  |
|-------------------|---|--|--|--|--|--|
| Test Method:      | ANSI C63.10:2009 and KDB558074 D01 DTS Meas Guidance V03  |  |  |  |  |  |
| Limit:            | In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. |  |  |  |  |  |
| Test setup:       | Spectrum Analyzer  E.U.T  Non-Conducted Table  Ground Reference Plane   |  |  |  |  |  |
| Test Instruments: | Refer to section 6.0 for details  |  |  |  |  |  |
| Test mode:        | Refer to section 5.3 for details  |  |  |  |  |  |
| Test results:     | Pass  |  |  |  |  |  |



R T Peak Search

### Test plot as follows:

#### Lowest channel

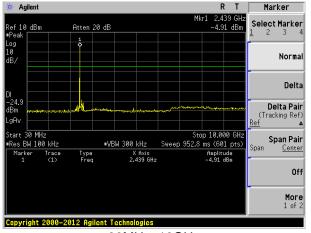


30MHz~10GHz

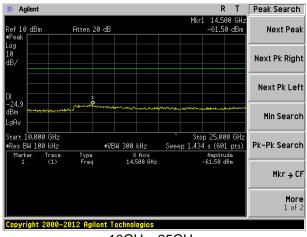
#### 14.375 GH -60.71 dBm Next Peak Atten 20 dE Ref 10 dBm Next Pk Right Next Pk Left Min Search Stop 25.000 GHz Sweep 1.434 s (601 pts) Start 10.000 GHz Pk-Pk Search Res BW 100 kHz #VBW 300 kHz Type Freq X Axis 14.375 GHz Amplitude -60.71 dBm Mkr → CF Converget 2000-2012 Agilent Technologies

10GHz~25GHz

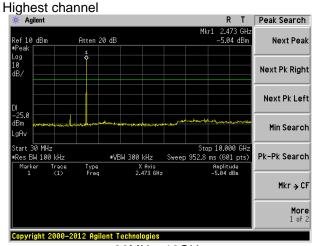
#### Middle channel



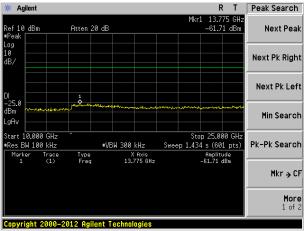
30MHz~10GHz



10GHz~25GHz



30MHz~10GHz



10GHz~25GHz



### 7.7.2 Radiated Emission Method

| Test Requirement:     | FCC Part15 C Section 15.209                         |               |               |  |                  |  |  |  |  |
|-----------------------|---|---------------|---------------|--|------------------|--|--|--|--|
| Test Method:          | ANSI C63.10:2009                                    |               |               |  |                  |  |  |  |  |
| Test Frequency Range: | 30MHz to 25GHz                                      |               |               |  |                  |  |  |  |  |
| Test site:            | Measurement Distance: 3m                            |               |               |  |                  |  |  |  |  |
| Receiver setup:       | Frequency   | Detector      | RBW           | VBW  | Value            |  |  |  |  |
| ·                     | 30MHz-1GHz  | Quasi-peak    | 300KHz        | Quasi-peak   |                  |  |  |  |  |
|                       |   | Peak          | 1MHz          | 3MHz   | Peak             |  |  |  |  |
|                       | Above 1GHz  | RMS           | 1MHz          | 3MHz   | Average          |  |  |  |  |
| Limit:                | Frequen   | су            | Limit (dBuV   | /m @3m)  | Value            |  |  |  |  |
|                       | 30MHz-88  | MHz           | 40.0          | 0  | Quasi-peak       |  |  |  |  |
|                       | 88MHz-216   | 6MHz          | 43.5          | 0  | Quasi-peak       |  |  |  |  |
|                       | 216MHz-96   | 0MHz          | 46.0          | 0  | Quasi-peak       |  |  |  |  |
|                       | 960MHz-1  | GHz           | 54.0          | 0  | Quasi-peak       |  |  |  |  |
|                       | Above 10  | `U-           | 54.0          | 0  | Average          |  |  |  |  |
|                       | Above 10  | סרוב          | 74.0          | 0  | Peak             |  |  |  |  |
|                       | Tum 0.8m Table 0.8m Above 1GHz  Turn 70.8 Turn 70.8 | 4m            |               | Antenna Tower  Search Antenna  RF Test Receiver  Antenna Tower  Horn Antenna  Spectrum Analyzer  Amplifier |                  |  |  |  |  |
| Test Procedure:       | 1. The EUT was                                      | placed on the | top of a rota | ating table 0  | ).8 meters above |  |  |  |  |

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|                   | the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.  |
|-------------------|--|
|                   | <ol><li>The EUT was set 3 meters away from the interference-receiving<br/>antenna, which was mounted on the top of a variable-height antenna<br/>tower.</li></ol>  |
|                   | <ol> <li>The antenna height is varied from one meter to four meters above the<br/>ground to determine the maximum value of the field strength. Both<br/>horizontal and vertical polarizations of the antenna are set to make the<br/>measurement.</li> </ol>   |
|                   | 4. For each suspected emission, the EUT was arranged to its worst case<br>and then the antenna was tuned to heights from 1 meter to 4 meters<br>and the rota table was turned from 0 degrees to 360 degrees to find<br>the maximum reading.  |
|                   | <ol><li>The test-receiver system was set to Peak Detect Function and<br/>Specified Bandwidth with Maximum Hold Mode.</li></ol>   |
|                   | 6. If the emission level of the EUT in peak mode was 10dB lower than<br>the limit specified, then testing could be stopped and the peak values<br>of the EUT would be reported. Otherwise the emissions that did not<br>have 10dB margin would be re-tested one by one using peak, quasi-<br>peak or average method as specified and then reported in a data<br>sheet. |
|                   | 7. The radiation measurements are performed in X, Y, Z axis positioning. And found the Y axis positioning which it is worse case, only the test worst case mode is recorded in the report.   |
| Test Instruments: | Refer to section 6.0 for details   |
| Test mode:        | Refer to section 5.3 for details   |
| Test results:     | Pass   |

### Remark:

Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis which it is worse case.



### **Measurement Data**

### ■ Below 1GHz

| Frequency<br>(MHz) | Read<br>Level<br>(dBuV) | Antenna<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | Preamp<br>Factor<br>(dB) | Level<br>(dBuV/m) | Limit Line<br>(dBuV/m) | Over<br>Limit<br>(dB) | polarization |
|--------------------|-------------------------|-----------------------------|-----------------------|--------------------------|-------------------|------------------------|-----------------------|--------------|
| 46.34              | 29.36                   | 15.46                       | 0.73                  | 30.01                    | 15.54             | 40.00                  | -24.46                | Vertical     |
| 62.43              | 28.66                   | 13.77                       | 0.88                  | 29.90                    | 13.41             | 40.00                  | -26.59                | Vertical     |
| 105.64             | 27.05                   | 14.63                       | 1.24                  | 29.66                    | 13.26             | 43.50                  | -30.24                | Vertical     |
| 162.61             | 29.99                   | 10.74                       | 1.65                  | 29.35                    | 13.03             | 43.50                  | -30.47                | Vertical     |
| 301.42             | 29.72                   | 15.08                       | 2.37                  | 29.99                    | 17.18             | 46.00                  | -28.82                | Vertical     |
| 566.62             | 26.16                   | 19.88                       | 3.59                  | 29.30                    | 20.33             | 46.00                  | -25.67                | Vertical     |
| 50.59              | 27.52                   | 15.22                       | 0.78                  | 30.00                    | 13.52             | 40.00                  | -26.48                | Horizontal   |
| 88.34              | 27.63                   | 13.47                       | 1.10                  | 29.75                    | 12.45             | 43.50                  | -31.05                | Horizontal   |
| 148.44             | 28.67                   | 10.25                       | 1.56                  | 29.41                    | 11.07             | 43.50                  | -32.43                | Horizontal   |
| 258.33             | 34.40                   | 14.05                       | 2.16                  | 29.71                    | 20.90             | 46.00                  | -25.10                | Horizontal   |
| 387.99             | 35.03                   | 16.78                       | 2.79                  | 29.56                    | 25.04             | 46.00                  | -20.96                | Horizontal   |
| 614.21             | 26.23                   | 20.51                       | 3.77                  | 29.29                    | 21.22             | 46.00                  | -24.78                | Horizontal   |



### ■ Above 1GHz

| Test channel       | Lowest                  |                             |                       |                          |                   |                        |                       |              |  |
|--------------------|-------------------------|-----------------------------|-----------------------|--------------------------|-------------------|------------------------|-----------------------|--------------|--|
| Peak value:        | Peak value:             |                             |                       |                          |                   |                        |                       |              |  |
| Frequency<br>(MHz) | Read<br>Level<br>(dBuV) | Antenna<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | Preamp<br>Factor<br>(dB) | Level<br>(dBuV/m) | Limit Line<br>(dBuV/m) | Over<br>Limit<br>(dB) | polarization |  |
| 4804.00            | 37.80                   | 31.78                       | 8.60                  | 32.09                    | 46.09             | 74.00                  | -27.91                | Vertical     |  |
| 7206.00            | 32.16                   | 36.15                       | 11.65                 | 32.00                    | 47.96             | 74.00                  | -26.04                | Vertical     |  |
| 9608.00            | 31.76                   | 37.95                       | 14.14                 | 31.62                    | 52.23             | 74.00                  | -21.77                | Vertical     |  |
| 12010.00           | *                       |                             |                       |                          |                   | 74.00                  |                       | Vertical     |  |
| 14412.00           | *                       |                             |                       |                          |                   | 74.00                  |                       | Vertical     |  |
| 4804.00            | 42.19                   | 31.78                       | 8.60                  | 32.09                    | 50.48             | 74.00                  | -23.52                | Horizontal   |  |
| 7206.00            | 33.96                   | 36.15                       | 11.65                 | 32.00                    | 49.76             | 74.00                  | -24.24                | Horizontal   |  |
| 9608.00            | 31.23                   | 37.95                       | 14.14                 | 31.62                    | 51.70             | 74.00                  | -22.30                | Horizontal   |  |
| 12010.00           | *                       |                             |                       |                          |                   | 74.00                  |                       | Horizontal   |  |
| 14412.00           | *                       |                             |                       |                          |                   | 74.00                  |                       | Horizontal   |  |

### Average value:

| Frequency (MHz) | Read<br>Level<br>(dBuV) | Antenna<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | Preamp<br>Factor<br>(dB) | Level<br>(dBuV/m) | Limit Line<br>(dBuV/m) | Over<br>Limit<br>(dB) | polarization |
|-----------------|-------------------------|-----------------------------|-----------------------|--------------------------|-------------------|------------------------|-----------------------|--------------|
| 4804.00         | 26.52                   | 31.78                       | 8.60                  | 32.09                    | 34.81             | 54.00                  | -19.19                | Vertical     |
| 7206.00         | 20.79                   | 36.15                       | 11.65                 | 32.00                    | 36.59             | 54.00                  | -17.41                | Vertical     |
| 9608.00         | 19.84                   | 37.95                       | 14.14                 | 31.62                    | 40.31             | 54.00                  | -13.69                | Vertical     |
| 12010.00        | *                       |                             |                       |                          |                   | 54.00                  |                       | Vertical     |
| 14412.00        | *                       |                             |                       |                          |                   | 54.00                  |                       | Vertical     |
| 4804.00         | 30.80                   | 31.78                       | 8.60                  | 32.09                    | 39.09             | 54.00                  | -14.91                | Horizontal   |
| 7206.00         | 22.99                   | 36.15                       | 11.65                 | 32.00                    | 38.79             | 54.00                  | -15.21                | Horizontal   |
| 9608.00         | 19.61                   | 37.95                       | 14.14                 | 31.62                    | 40.08             | 54.00                  | -13.92                | Horizontal   |
| 12010.00        | *                       |                             |                       |                          |                   | 54.00                  |                       | Horizontal   |
| 14412.00        | *                       |                             |                       |                          |                   | 54.00                  |                       | Horizontal   |

### Remark:

<sup>1.</sup> Final Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor

<sup>2. &</sup>quot;\*", means this data is the too weak instrument of signal is unable to test.



| Test channel       | nel: Middle             |                             |                       |                          |                   |                        |                       |              |
|--------------------|-------------------------|-----------------------------|-----------------------|--------------------------|-------------------|------------------------|-----------------------|--------------|
| Peak value:        |                         |                             |                       |                          |                   |                        |                       |              |
| Frequency<br>(MHz) | Read<br>Level<br>(dBuV) | Antenna<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | Preamp<br>Factor<br>(dB) | Level<br>(dBuV/m) | Limit Line<br>(dBuV/m) | Over<br>Limit<br>(dB) | polarization |
| 4882.00            | 37.18                   | 31.85                       | 8.67                  | 32.12                    | 45.58             | 74.00                  | -28.42                | Vertical     |
| 7323.00            | 31.75                   | 36.37                       | 11.72                 | 31.89                    | 47.95             | 74.00                  | -26.05                | Vertical     |
| 9764.00            | 31.40                   | 38.35                       | 14.25                 | 31.62                    | 52.38             | 74.00                  | -21.62                | Vertical     |
| 12205.00           | *                       |                             |                       |                          |                   | 74.00                  |                       | Vertical     |
| 14646.00           | *                       |                             |                       |                          |                   | 74.00                  |                       | Vertical     |
| 4882.00            | 41.44                   | 31.85                       | 8.67                  | 32.12                    | 49.84             | 74.00                  | -24.16                | Horizontal   |
| 7323.00            | 33.49                   | 36.37                       | 11.72                 | 31.89                    | 49.69             | 74.00                  | -24.31                | Horizontal   |
| 9764.00            | 30.81                   | 38.35                       | 14.25                 | 31.62                    | 51.79             | 74.00                  | -22.21                | Horizontal   |
| 12205.00           | *                       |                             |                       |                          |                   | 74.00                  |                       | Horizontal   |
| 14646.00           | *                       |                             |                       |                          |                   | 74.00                  |                       | Horizontal   |
| Average val        | ue:                     |                             |                       |                          |                   |                        |                       |              |
| Frequency<br>(MHz) | Read<br>Level<br>(dBuV) | Antenna<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | Preamp<br>Factor<br>(dB) | Level<br>(dBuV/m) | Limit Line<br>(dBuV/m) | Over<br>Limit<br>(dB) | polarization |
| 4882.00            | 26.03                   | 31.85                       | 8.67                  | 32.12                    | 34.43             | 54.00                  | -19.57                | Vertical     |
| 7323.00            | 20.46                   | 36.37                       | 11.72                 | 31.89                    | 36.66             | 54.00                  | -17.34                | Vertical     |
| 9764.00            | 19.54                   | 38.35                       | 14.25                 | 31.62                    | 40.52             | 54.00                  | -13.48                | Vertical     |
| 12205.00           | *                       |                             |                       |                          |                   | 54.00                  |                       | Vertical     |
| 14646.00           | *                       |                             |                       |                          |                   | 54.00                  |                       | Vertical     |
| 4882.00            | 30.25                   | 31.85                       | 8.67                  | 32.12                    | 38.65             | 54.00                  | -15.35                | Horizontal   |
| 7323.00            | 22.62                   | 36.37                       | 11.72                 | 31.89                    | 38.82             | 54.00                  | -15.18                | Horizontal   |
| 9764.00            | 19.26                   | 38.35                       | 14.25                 | 31.62                    | 40.24             | 54.00                  | -13.76                | Horizontal   |
| 12205.00           | *                       |                             |                       |                          |                   | 54.00                  |                       | Horizontal   |
| 14646.00           | *                       |                             |                       |                          |                   | 54.00                  |                       | Horizontal   |

#### Remark:

<sup>1.</sup> Final Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor

<sup>2. &</sup>quot;\*", means this data is the too weak instrument of signal is unable to test.



| Test channel       | l:                      |                             |                       |                       | High | nest              |                        |                       |              |
|--------------------|-------------------------|-----------------------------|-----------------------|-----------------------|------|-------------------|------------------------|-----------------------|--------------|
| Peak value:        |                         |                             |                       | ,                     |      |                   |                        |                       |              |
| Frequency<br>(MHz) | Read<br>Level<br>(dBuV) | Antenna<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | Prear<br>Facto<br>(dB | or   | Level<br>(dBuV/m) | Limit Line<br>(dBuV/m) | Over<br>Limit<br>(dB) | polarization |
| 4960.00            | 36.26                   | 31.93                       | 8.73                  | 32.1                  | 6    | 44.76             | 74.00                  | -29.24                | Vertical     |
| 7440.00            | 31.13                   | 36.59                       | 11.79                 | 31.7                  | 8    | 47.73             | 74.00                  | -26.27                | Vertical     |
| 9920.00            | 30.85                   | 38.81                       | 14.38                 | 31.8                  | 8    | 52.16             | 74.00                  | -21.84                | Vertical     |
| 12400.00           | *                       |                             |                       |                       |      |                   | 74.00                  |                       | Vertical     |
| 14880.00           | *                       |                             |                       |                       |      |                   | 74.00                  |                       | Vertical     |
| 4960.00            | 40.33                   | 31.93                       | 8.73                  | 32.1                  | 6    | 48.83             | 74.00                  | -25.17                | Horizontal   |
| 7440.00            | 32.80                   | 36.59                       | 11.79                 | 31.7                  | 8    | 49.40             | 74.00                  | -24.60                | Horizontal   |
| 9920.00            | 30.17                   | 38.81                       | 14.38                 | 31.8                  | 8    | 51.48             | 74.00                  | -22.52                | Horizontal   |
| 12400.00           | *                       |                             |                       |                       |      |                   | 74.00                  |                       | Horizontal   |
| 14880.00           | *                       |                             |                       |                       |      |                   | 74.00                  |                       | Horizontal   |
| Average val        | ue:                     |                             |                       |                       |      |                   |                        |                       |              |
| Frequency<br>(MHz) | Read<br>Level<br>(dBuV) | Antenna<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | Prear<br>Facto<br>(dB | or   | Level<br>(dBuV/m) | Limit Line<br>(dBuV/m) | Over<br>Limit<br>(dB) | polarization |
| 4960.00            | 25.32                   | 31.93                       | 8.73                  | 32.1                  | 6    | 33.82             | 54.00                  | -20.18                | Vertical     |
| 7440.00            | 19.98                   | 36.59                       | 11.79                 | 31.7                  | 8    | 36.58             | 54.00                  | -17.42                | Vertical     |
| 9920.00            | 19.11                   | 38.81                       | 14.38                 | 31.8                  | 8    | 40.42             | 54.00                  | -13.58                | Vertical     |
| 12400.00           | *                       |                             |                       |                       |      |                   | 54.00                  |                       | Vertical     |
| 14880.00           | *                       |                             |                       |                       |      |                   | 54.00                  |                       | Vertical     |
| 4960.00            | 29.44                   | 31.93                       | 8.73                  | 32.1                  | 6    | 37.94             | 54.00                  | -16.06                | Horizontal   |
| 7440.00            | 22.08                   | 36.59                       | 11.79                 | 31.7                  | 8    | 38.68             | 54.00                  | -15.32                | Horizontal   |
| 9920.00            | 18.76                   | 38.81                       | 14.38                 | 31.8                  | 8    | 40.07             | 54.00                  | -13.93                | Horizontal   |
| 12400.00           | *                       |                             |                       |                       |      |                   | 54.00                  |                       | Horizontal   |
| 14880.00           | *                       |                             |                       |                       |      |                   | 54.00                  |                       | Horizontal   |

#### Remark:

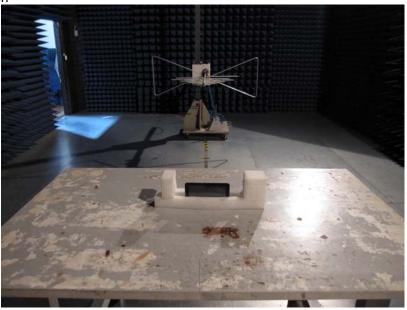
<sup>1.</sup> Final Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor

<sup>2. &</sup>quot;\*", means this data is the too weak instrument of signal is unable to test.



# 8 Test Setup Photo

Radiated Emission







Conducted Emission



### 9 EUT Constructional Details

Reference to the test report No. GTSE15050083501

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