

## FCC Report (WIFI)

**Applicant:** Kobian Canada Inc.,

**Address of Applicant:** 560 Denison Street, Unit#5, Markham Ontario, Canada,  
L3R2M8

**Equipment Under Test (EUT)**

Product Name: TABLET PC

Model No.: 7DTB41

**FCC ID:** YH5-7DTB41

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

**Date of sample receipt:** July 09, 2015

**Date of Test:** July 09-16, 2015

**Date of report issued:** July 16, 2015

**Test Result :** PASS \*

\* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:



**Robinson Lo**

**Laboratory Manager**

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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## 2 Version

| Version No. | Date          | Description |
|-------------|---------------|-------------|
| 00          | July 16, 2015 | Original    |
|             |               |             |
|             |               |             |
|             |               |             |
|             |               |             |

Tested By:

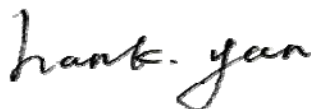


Date:

July 16, 2015

Project Engineer

Check By:



Date:

July 16, 2015

Reviewer

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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 Peak 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%.

Remark : Test according to ANSI C63.4:2014 and ANSI C63.10:2013

## 5 General Information

### 5.1 Client Information

|                          |                                                             |
|--------------------------|-------------------------------------------------------------|
| Applicant:               | Kobian Canada Inc.,                                         |
| Address of Applicant:    | 560 Denison Street, Unit#5, Markham Ontario, Canada, L3R2M8 |
| Manufacturer:            | Kobian Canada Inc.,                                         |
| Address of Manufacturer: | 560 Denison Street, Unit#5, Markham Ontario, Canada, L3R2M8 |

### 5.2 General Description of EUT

|                        |                                                                                                                                            |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| Product Name:          | TABLET PC                                                                                                                                  |
| Model No.:             | 7DTB41                                                                                                                                     |
| Operation Frequency:   | 802.11b/802.11g/802.11n(HT20): 2412MHz~2462MHz<br>802.11n(HT40): 2422MHz~2452MHz                                                           |
| Channel numbers:       | 802.11b/802.11g /802.11n(HT20): 11<br>802.11(HT40): 7                                                                                      |
| Channel separation:    | 5MHz                                                                                                                                       |
| Modulation technology: | 802.11b: Direct Sequence Spread Spectrum (DSSS)<br>802.11g/802.11n(H20)/802.11n(H40):<br>Orthogonal Frequency Division Multiplexing (OFDM) |
| Antenna Type:          | Integrity antenna                                                                                                                          |
| Antenna gain:          | 2dBi (declare by Applicant)                                                                                                                |
| Power supply:          | AC/DC Adaptor:<br>Model No.:SUN-0500150<br>Input:100-240V~50/60Hz 0.3A<br>Output:5V 1.5A<br>Or<br>DC 3.7 V Lithium battery 2500mAh         |

| Operation Frequency each of channel |           |         |           |         |           |         |           |
|-------------------------------------|-----------|---------|-----------|---------|-----------|---------|-----------|
| Channel                             | Frequency | Channel | Frequency | Channel | Frequency | Channel | Frequency |
| 1                                   | 2412MHz   | 4       | 2427MHz   | 7       | 2442MHz   | 10      | 2457MHz   |
| 2                                   | 2417MHz   | 5       | 2432MHz   | 8       | 2447MHz   | 11      | 2462MHz   |
| 3                                   | 2422MHz   | 6       | 2437MHz   | 9       | 2452MHz   |         |           |

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:

| Test channel    | Frequency (MHz)               |               |
|-----------------|-------------------------------|---------------|
|                 | 802.11b/802.11g/802.11n(HT20) | 802.11n(HT40) |
| Lowest channel  | 2412MHz                       | 2422MHz       |
| Middle channel  | 2437MHz                       | 2437MHz       |
| Highest channel | 2462MHz                       | 2452MHz       |

## 5.3 Test mode

|                                                                                                                                                                                                                                              |                                                                   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|
| Transmitting mode                                                                                                                                                                                                                            | Keep the EUT in continuously transmitting mode (duty cycle > 98%) |
| <i>Remark: During the test, the test voltage was tuned from 85% to 115% of the nominal rated supply voltage, and found that the worst case was under the nominal rated supply condition. So the report just shows that condition's data.</i> |                                                                   |

|                                                                                                                                                                                                              |         |         |               |               |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|---------|---------------|---------------|
| We have verified the construction and function in typical operation. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows: |         |         |               |               |
| Per-scan all kind of data rate in lowest channel, and found the follow list which it was worst case.                                                                                                         |         |         |               |               |
| Mode                                                                                                                                                                                                         | 802.11b | 802.11g | 802.11n(HT20) | 802.11n(HT40) |
| Data rate                                                                                                                                                                                                    | 1Mbps   | 6Mbps   | 6.5Mbps       | 13Mbps        |

## 5.4 Description of Support Units

|       |
|-------|
| None. |
|-------|

## 5.5 Test Facility

- **FCC —Registration No.: 600491**

Global United Technology Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fully 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

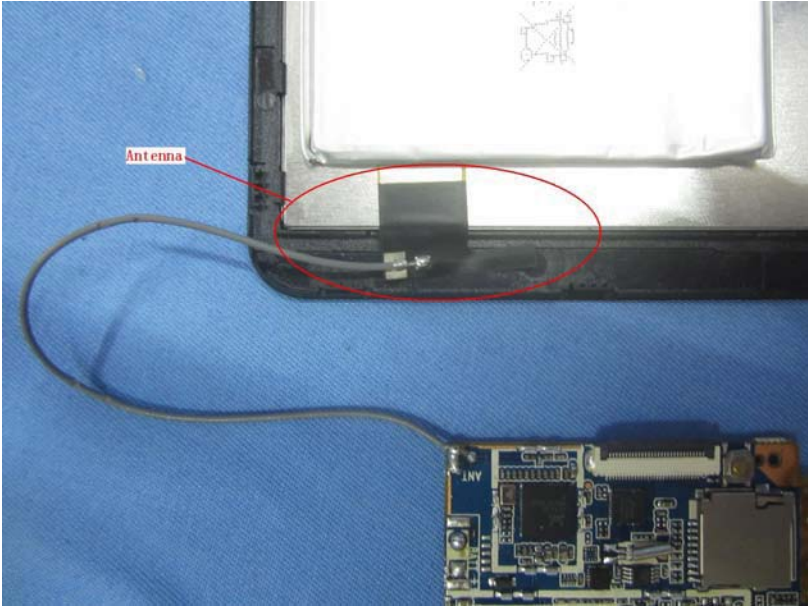
## 6 Test Instruments list

| Radiated Emission: |                               |                                |                             |               |                     |                         |
|--------------------|-------------------------------|--------------------------------|-----------------------------|---------------|---------------------|-------------------------|
| Item               | Test Equipment                | Manufacturer                   | Model No.                   | Inventory No. | Cal.Date (mm-dd-yy) | Cal.Due date (mm-dd-yy) |
| 1                  | 3m Semi- Anechoic 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        | Jun. 30 2015        | Jun. 29 2016            |
| 5                  | BiConiLog Antenna             | SCHWARZBECK<br>MESS-ELEKTRONIK | VULB9163                    | GTS214        | Jun. 30 2015        | Jun. 29 2016            |
| 6                  | Double -ridged waveguide horn | SCHWARZBECK<br>MESS-ELEKTRONIK | 9120D-829                   | GTS208        | Jun. 26 2015        | Jun. 25 2016            |
| 7                  | Horn Antenna                  | ETS-LINDGREN                   | 3160                        | GTS217        | Mar. 27 2015        | Mar. 26 2016            |
| 8                  | EMI Test Software             | AUDIX                          | E3                          | N/A           | N/A                 | N/A                     |
| 9                  | Coaxial Cable                 | GTS                            | N/A                         | GTS213        | Mar. 28 2015        | Mar. 27 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        | Jun. 30 2015        | Jun. 29 2016            |
| 14                 | Amplifier(2GHz-20GHz)         | HP                             | 8349B                       | GTS206        | Jun. 30 2015        | Jun. 29 2016            |
| 15                 | Amplifier (18-26GHz)          | Rohde & Schwarz                | AFS33-18002<br>650-30-8P-44 | GTS218        | June 26 2015        | June 25 2016            |
| 16                 | Band filter                   | Amindeon                       | 82346                       | GTS219        | Mar. 28 2015        | Mar. 27 2016            |
| 17                 | Power Meter                   | Anritsu                        | ML2495A                     | GTS540        | Jun. 30 2015        | Jun. 29 2016            |
| 18                 | Power Sensor                  | Anritsu                        | MA2411B                     | GTS541        | Jun. 30 2015        | Jun. 29 2016            |

| Conducted Emission: |                   |                                |                      |               |                     |                         |
|---------------------|-------------------|--------------------------------|----------------------|---------------|---------------------|-------------------------|
| Item                | Test Equipment    | Manufacturer                   | Model No.            | Inventory No. | Cal.Date (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                   | EMI Test Receiver | Rohde & Schwarz                | ESCS30               | GTS223        | Jun. 30 2015        | Jun. 29 2016            |
| 3                   | 10dB Pulse Limita | Rohde & Schwarz                | N/A                  | GTS224        | Jun. 30 2015        | Jun. 29 2016            |
| 4                   | Coaxial Switch    | ANRITSU CORP                   | MP59B                | GTS225        | Jun. 30 2015        | Jun. 29 2016            |
| 5                   | LISN              | SCHWARZBECK<br>MESS-ELEKTRONIK | NSLK 8127            | GTS226        | Jun. 30 2015        | Jun. 29 2016            |
| 6                   | Coaxial Cable     | GTS                            | N/A                  | GTS227        | Jun. 30 2015        | Jun. 29 2016            |
| 7                   | EMI Test Software | AUDIX                          | E3                   | N/A           | N/A                 | N/A                     |

## 7 Test results and Measurement Data

### 7.1 Antenna requirement

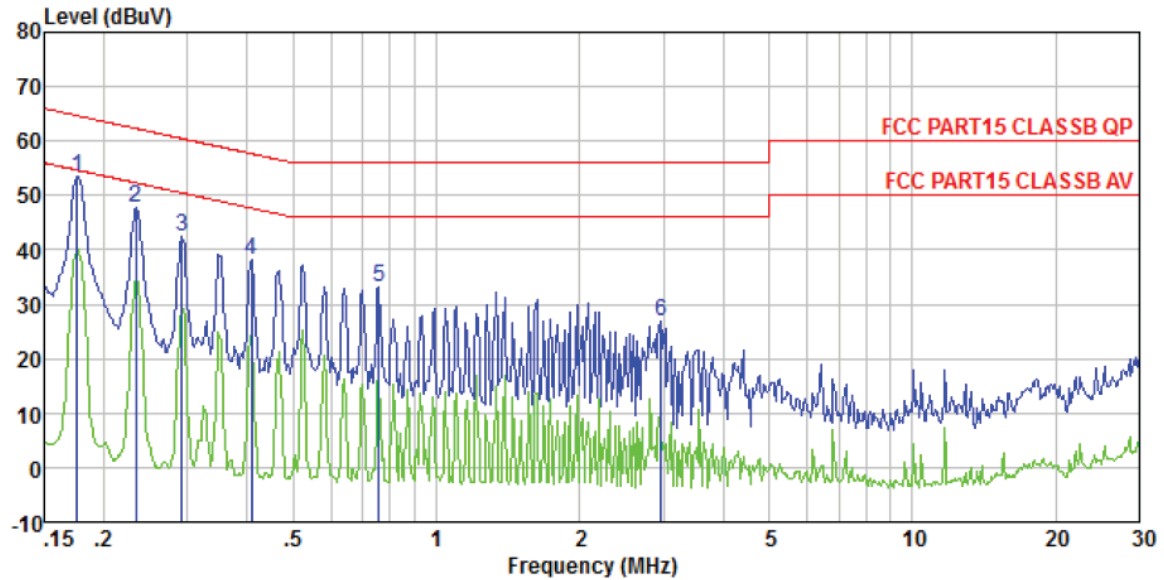
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                     |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|
| <b>Standard requirement:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | FCC Part15 C Section 15.203 /247(c) |
| <p><b>15.203 requirement:</b></p> <p>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.</p> <p><b>15.247(c) (1)(i) requirement:</b></p> <p>(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.</p> |                                     |
| <b>EUT Antenna:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                     |
| <p><i>The antenna is Integrity antenna, the best case gain of the antenna is 2dBi</i></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                     |

## 7.2 Conducted Emissions

|                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |              |           |
|--------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-----------|
| Test Requirement:                                | FCC Part15 C Section 15.207                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |              |           |
| Test Method:                                     | ANSI C63.10:2013                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |              |           |
| Test Frequency Range:                            | 150KHz to 30MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |              |           |
| Class / Severity:                                | Class B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |              |           |
| Receiver setup:                                  | RBW=9KHz, VBW=30KHz, Sweep time=auto                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |              |           |
| Limit:                                           | Frequency range (MHz)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Limit (dBuV) |           |
|                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Quasi-peak   | Average   |
|                                                  | 0.15-0.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 66 to 56*    | 56 to 46* |
|                                                  | 0.5-5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 56           | 46        |
|                                                  | 5-30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 60           | 50        |
| * Decreases with the logarithm of the frequency. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |              |           |
| Test setup:                                      | <div><p style="text-align: center;"><b>Reference Plane</b></p><p>Remark:<br/>E.U.T: Equipment Under Test<br/>LISN: Line Impedance Stabilization Network<br/>Test table height=0.8m</p></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |              |           |
| Test procedure:                                  | <div><ol style="list-style-type: none"><li>1. 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 50ohm/50uH coupling impedance for the measuring equipment.</li><li>2. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs).</li><li>3. 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 according to ANSI C63.10:2013 on conducted measurement.</li></ol></div> |              |           |
| Test Instruments:                                | Refer to section 6.0 for details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |              |           |
| Test mode:                                       | Refer to section 5.3 for details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |              |           |
| Test results:                                    | Pass                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |              |           |

## Measurement data

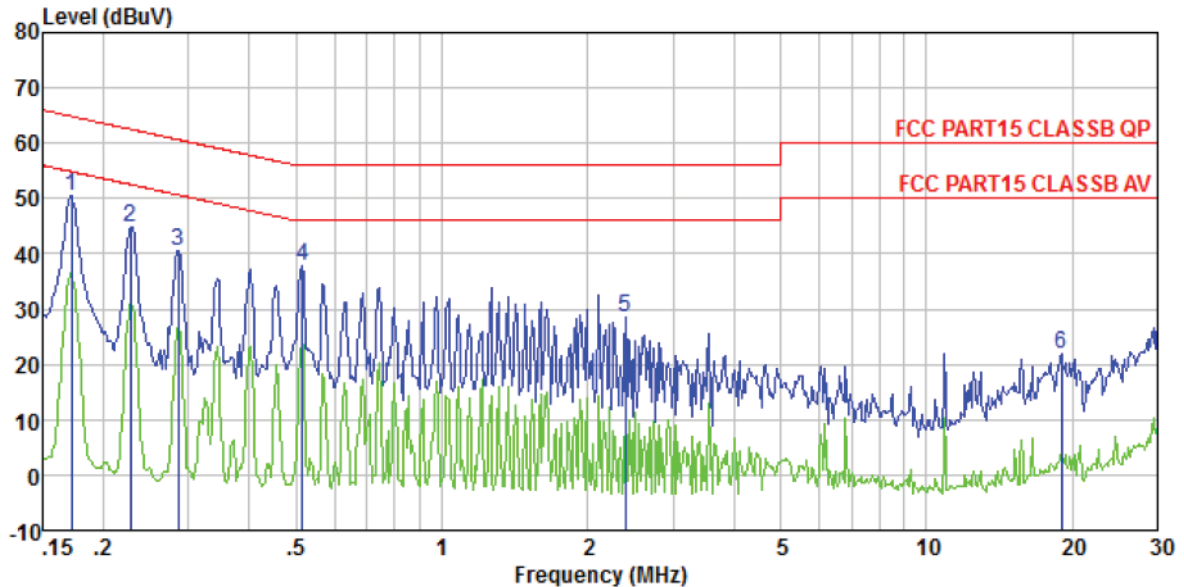
Line:



Site : Shielded room  
 Condition : FCC PART15 CLASSB QP LISN-2013 LINE  
 Job No. : 1244RF  
 Test mode : WIFI mode  
 Test Engineer: Song

|   | Freq  | Read Level | Cable Loss | LISN Factor | Level | Limit Line | Over Limit | Remark |
|---|-------|------------|------------|-------------|-------|------------|------------|--------|
|   | MHz   | dBuV       | dB         | dB          | dBuV  | dBuV       | dB         |        |
| 1 | 0.176 | 53.28      | 0.13       | 0.14        | 53.55 | 64.68      | -11.13     | QP     |
| 2 | 0.234 | 47.61      | 0.12       | 0.12        | 47.85 | 62.30      | -14.45     | QP     |
| 3 | 0.292 | 42.16      | 0.10       | 0.11        | 42.37 | 60.46      | -18.09     | QP     |
| 4 | 0.408 | 37.89      | 0.11       | 0.11        | 38.11 | 57.68      | -19.57     | QP     |
| 5 | 0.759 | 33.06      | 0.13       | 0.14        | 33.33 | 56.00      | -22.67     | QP     |
| 6 | 2.962 | 26.60      | 0.15       | 0.15        | 26.90 | 56.00      | -29.10     | QP     |

Neutral:



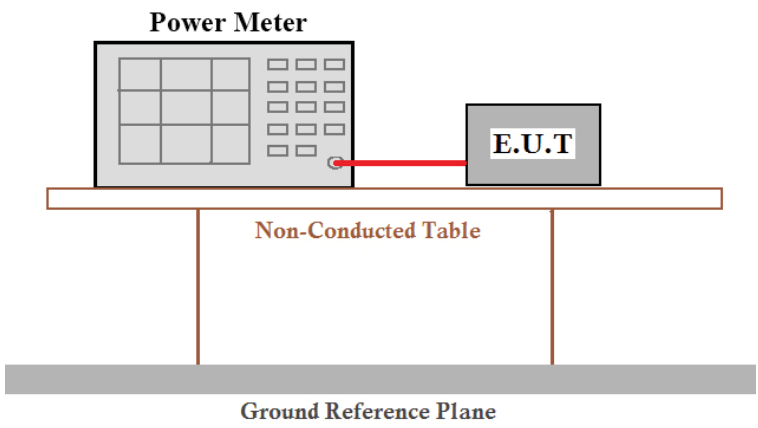
Site : Shielded room  
 Condition : FCC PART15 CLASSB QP LISN-2013 NEUTRAL  
 Job No. : 1244RF  
 Test mode : WiFi mode  
 Test Engineer: Song

|   | Freq   | Read Level | Cable Loss | LISN Factor | Level | Limit Line | Over Limit | Remark |
|---|--------|------------|------------|-------------|-------|------------|------------|--------|
|   | MHz    | dBuV       | dB         | dB          | dBuV  | dBuV       | dB         |        |
| 1 | 0.172  | 50.25      | 0.12       | 0.07        | 50.44 | 64.86      | -14.42     | QP     |
| 2 | 0.228  | 44.76      | 0.12       | 0.06        | 44.94 | 62.52      | -17.58     | QP     |
| 3 | 0.286  | 40.43      | 0.10       | 0.06        | 40.59 | 60.63      | -20.04     | QP     |
| 4 | 0.516  | 37.73      | 0.11       | 0.06        | 37.90 | 56.00      | -18.10     | QP     |
| 5 | 2.396  | 28.28      | 0.15       | 0.10        | 28.53 | 56.00      | -27.47     | QP     |
| 6 | 19.021 | 21.25      | 0.22       | 0.47        | 21.94 | 60.00      | -38.06     | 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.

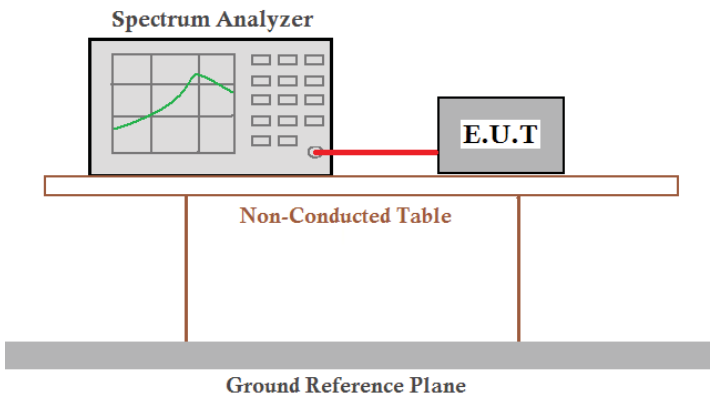
## 7.3 Conducted Peak Output Power

|                   |                                                                                                                                                                                                                                                                                                                                                    |
|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement: | FCC Part15 C Section 15.247 (b)(3)                                                                                                                                                                                                                                                                                                                 |
| Test Method:      | ANSI C63.10:2013 and KDB558074 D01 DTS Meas Guidance V03                                                                                                                                                                                                                                                                                           |
| Limit:            | 30dBm                                                                                                                                                                                                                                                                                                                                              |
| Test setup:       |  <p>The diagram illustrates the test setup. A Power Meter is connected to an E.U.T. (Equipment Under Test) via a red cable. Both the Power Meter and the E.U.T. are placed on a Non-Conducted Table. The table is positioned above a Ground Reference Plane.</p> |
| Test Instruments: | Refer to section 6.0 for details                                                                                                                                                                                                                                                                                                                   |
| Test mode:        | Refer to section 5.3 for details                                                                                                                                                                                                                                                                                                                   |
| Test results:     | Pass                                                                                                                                                                                                                                                                                                                                               |

## Measurement Data

| Test CH | Peak Output Power (dBm) |         |               |               | Limit(dBm) | Result |
|---------|-------------------------|---------|---------------|---------------|------------|--------|
|         | 802.11b                 | 802.11g | 802.11n(HT20) | 802.11n(HT40) |            |        |
| Lowest  | 7.04                    | 6.32    | 6.14          | 5.69          | 30.00      | Pass   |
| Middle  | 7.02                    | 6.56    | 6.42          | 5.70          |            |        |
| Highest | 6.86                    | 6.79    | 6.46          | 5.81          |            |        |

## 7.4 Channel Bandwidth

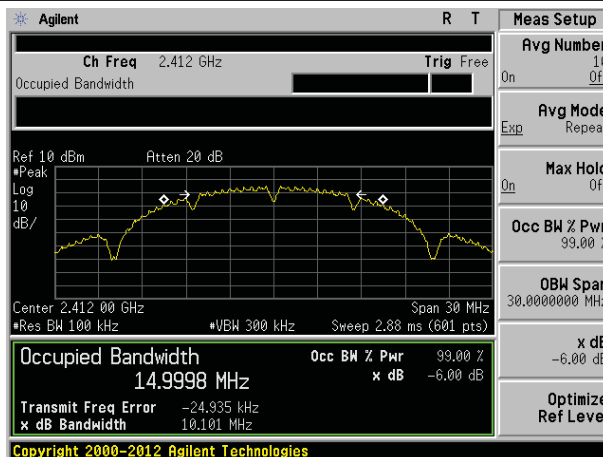
|                   |                                                                                                                                                                                                                                                                                                                   |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement: | FCC Part15 C Section 15.247 (a)(2)                                                                                                                                                                                                                                                                                |
| Test Method:      | ANSI C63.10:2013 and KDB558074 D01 DTS Meas Guidance V03                                                                                                                                                                                                                                                          |
| Limit:            | >500KHz                                                                                                                                                                                                                                                                                                           |
| Test setup:       |  <p>The diagram illustrates the test setup. A Spectrum Analyzer is connected to an E.U.T. (Equipment Under Test) via a red cable. Both are placed on a Non-Conducted Table, which is supported by a Ground Reference Plane.</p> |
| Test Instruments: | Refer to section 6.0 for details                                                                                                                                                                                                                                                                                  |
| Test mode:        | Refer to section 5.3 for details                                                                                                                                                                                                                                                                                  |
| Test results:     | Pass                                                                                                                                                                                                                                                                                                              |

## Measurement Data

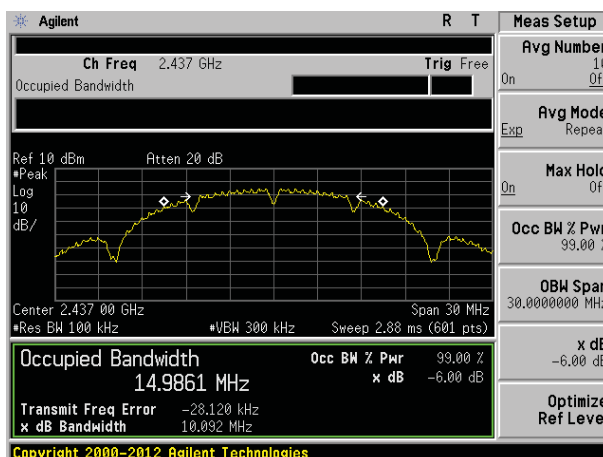
| Test CH | Channel Bandwidth (MHz) |         |               |               | Limit(KHz) | Result |
|---------|-------------------------|---------|---------------|---------------|------------|--------|
|         | 802.11b                 | 802.11g | 802.11n(HT20) | 802.11n(HT40) |            |        |
| Lowest  | 10.101                  | 16.579  | 17.864        | 36.514        | >500       | Pass   |
| Middle  | 10.092                  | 16.585  | 17.851        | 36.523        |            |        |
| Highest | 10.099                  | 16.588  | 17.866        | 36.534        |            |        |

Test plot as follows:

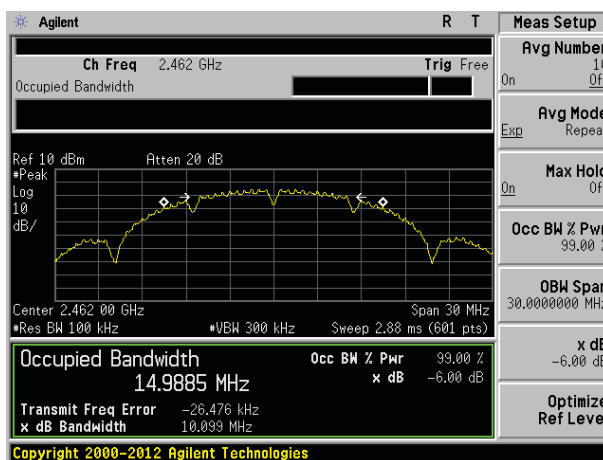
|            |         |
|------------|---------|
| Test mode: | 802.11b |
|------------|---------|



Lowest channel

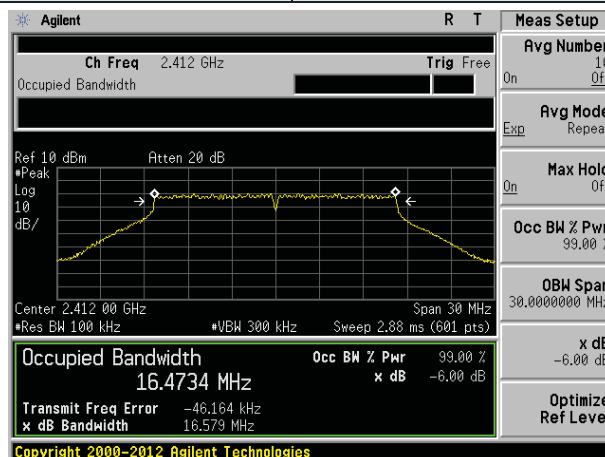


Middle channel

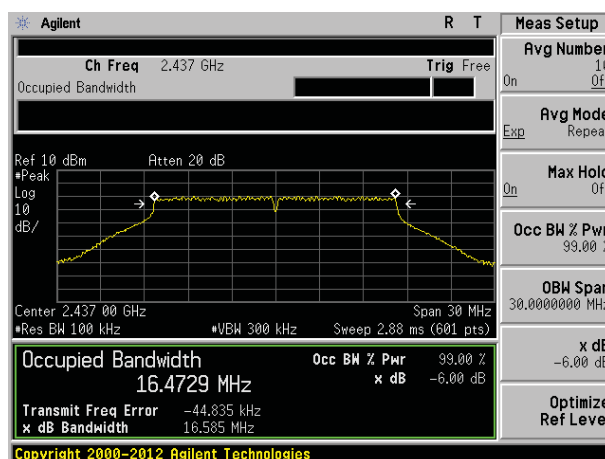


Highest channel

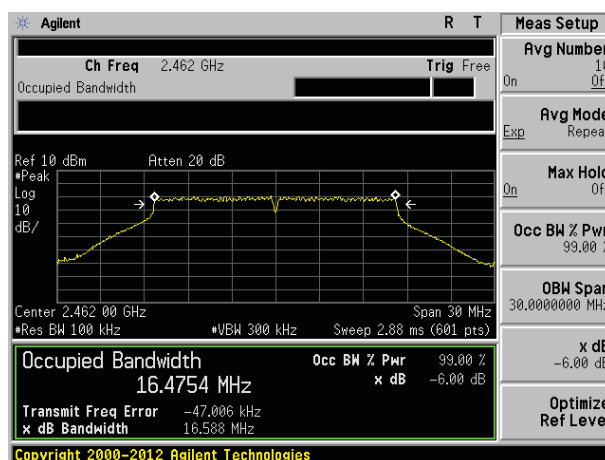
|            |         |
|------------|---------|
| Test mode: | 802.11g |
|------------|---------|



Lowest channel



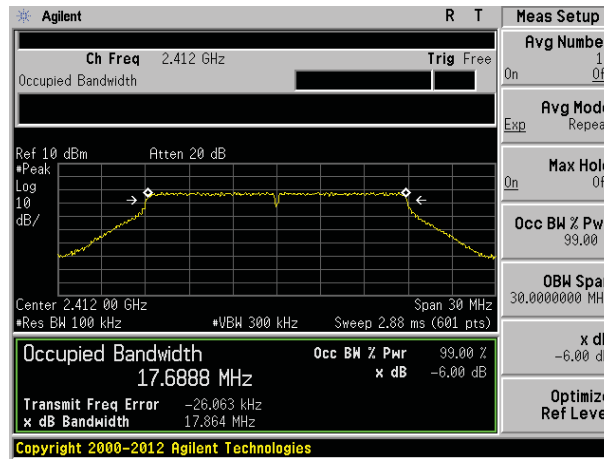
Middle channel



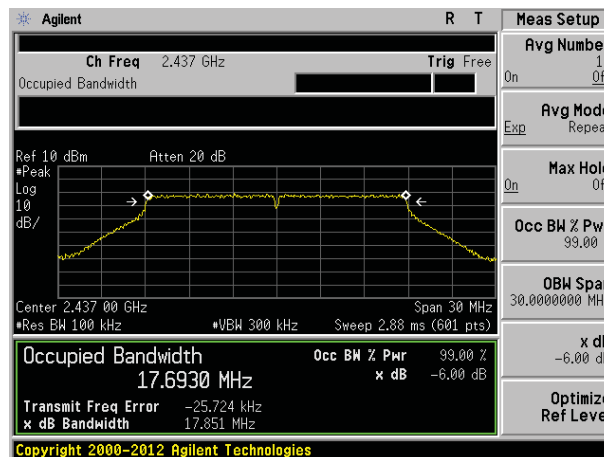
Highest channel

Test mode:

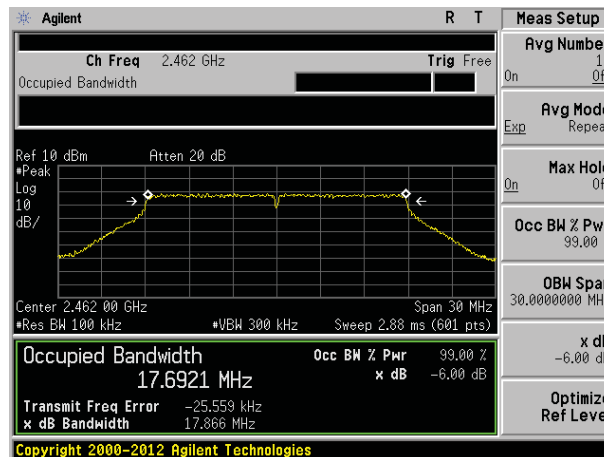
802.11n(HT20)



Lowest channel

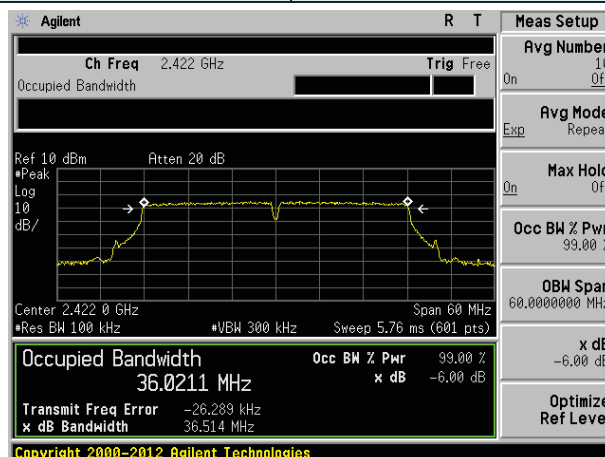


Middle channel

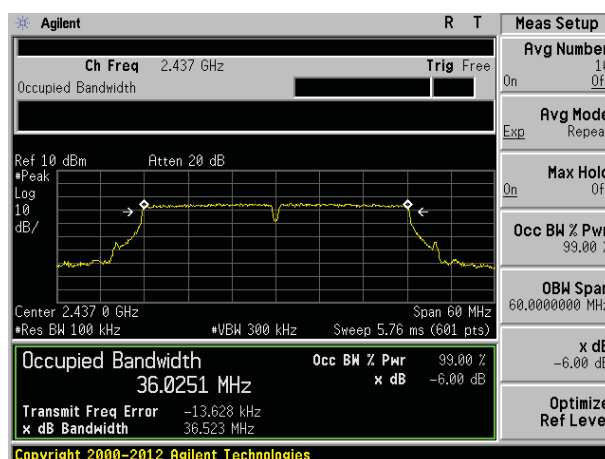


Highest channel

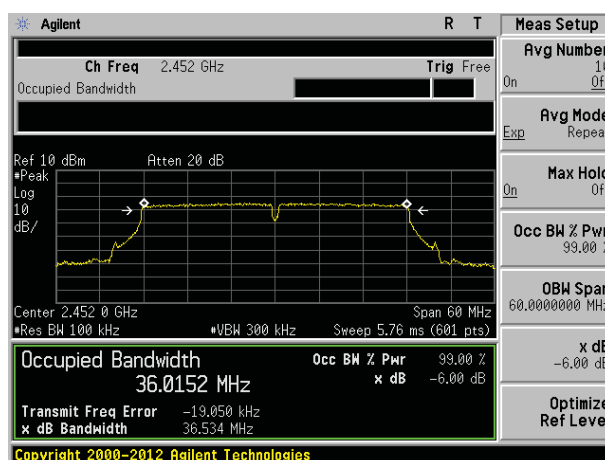
|            |               |
|------------|---------------|
| Test mode: | 802.11n(HT40) |
|------------|---------------|



Lowest channel

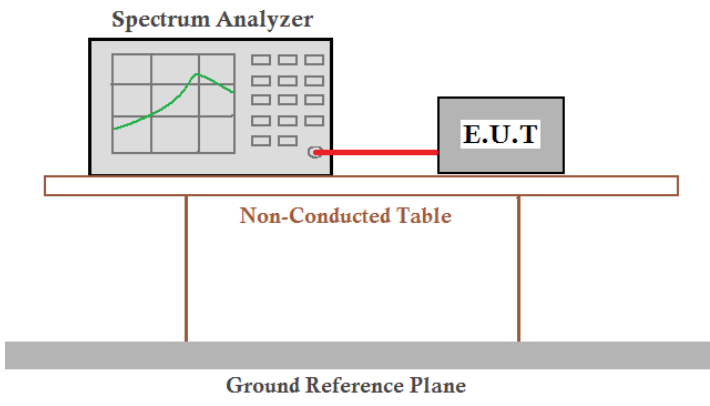


Middle channel



Highest channel

## 7.5 Power Spectral Density

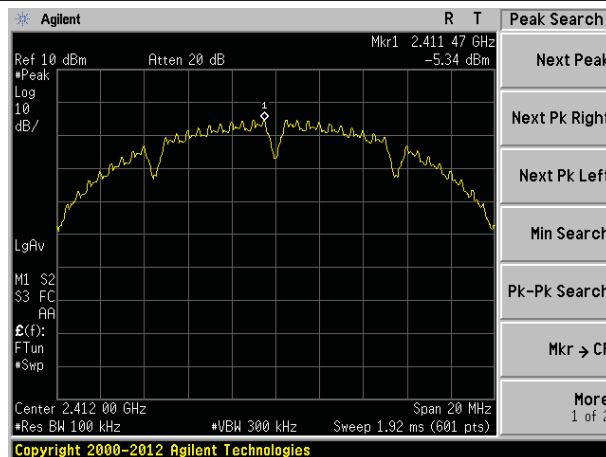
|                   |                                                                                                                                                                                                                                                                                                                                                            |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement: | FCC Part15 C Section 15.247 (e)                                                                                                                                                                                                                                                                                                                            |
| Test Method:      | ANSI C63.10:2013 and KDB558074 D01 DTS Meas Guidance V03                                                                                                                                                                                                                                                                                                   |
| Limit:            | 8dBm                                                                                                                                                                                                                                                                                                                                                       |
| Test setup:       |  <p>The diagram illustrates the test setup. A Spectrum Analyzer is connected to an E.U.T. (Equipment Under Test) via a red cable. Both the Spectrum Analyzer and the E.U.T. are placed on a Non-Conducted Table. The table is supported by a Ground Reference Plane.</p> |
| Test Instruments: | Refer to section 6.0 for details                                                                                                                                                                                                                                                                                                                           |
| Test mode:        | Refer to section 5.3 for details                                                                                                                                                                                                                                                                                                                           |
| Test results:     | Pass                                                                                                                                                                                                                                                                                                                                                       |

### Measurement Data

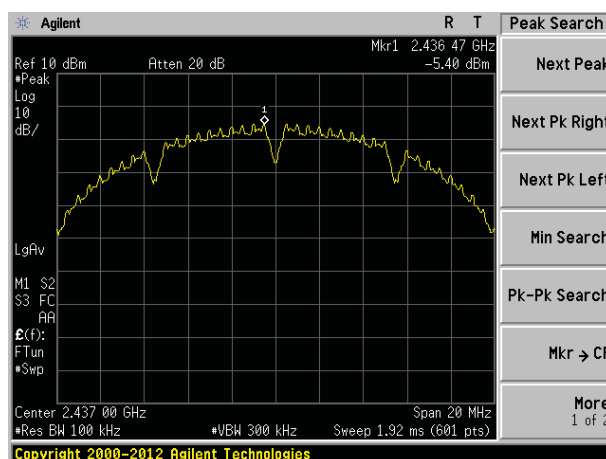
| Test CH | Power Spectral Density (dBm) |         |               |               | Limit(dBm/3kHz) | Result |
|---------|------------------------------|---------|---------------|---------------|-----------------|--------|
|         | 802.11b                      | 802.11g | 802.11n(HT20) | 802.11n(HT40) |                 |        |
| Lowest  | -5.34                        | -9.87   | -11.33        | -14.88        | 8.00            | Pass   |
| Middle  | -5.40                        | -9.76   | -11.02        | -14.80        |                 |        |
| Highest | -5.57                        | -9.61   | -10.98        | -14.93        |                 |        |

Test plot as follows:

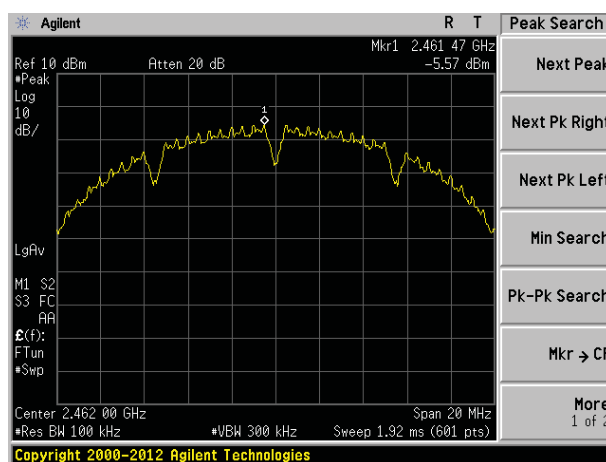
|            |         |
|------------|---------|
| Test mode: | 802.11b |
|------------|---------|



Lowest channel

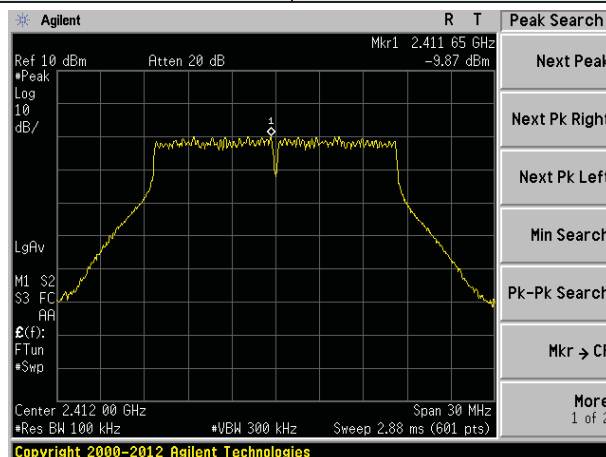


Middle channel

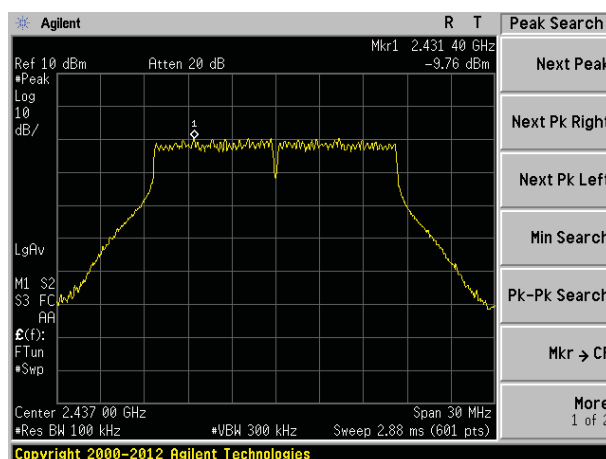


Highest channel

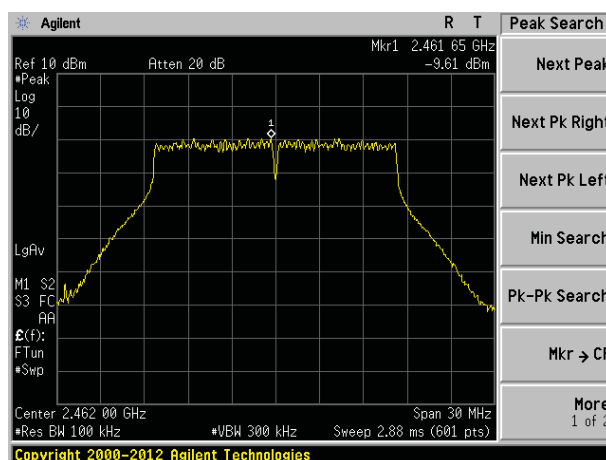
|            |         |
|------------|---------|
| Test mode: | 802.11g |
|------------|---------|



Lowest channel

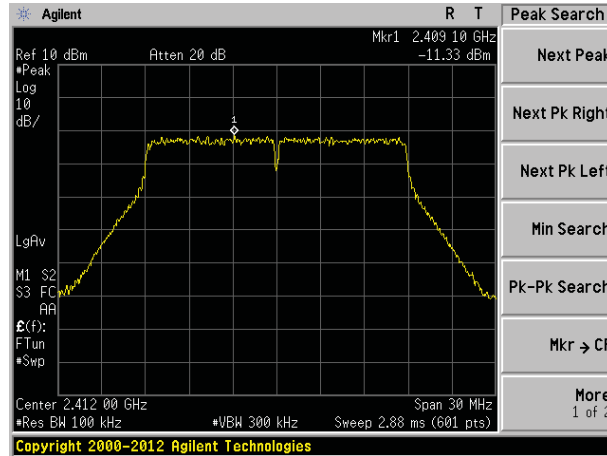


Middle channel

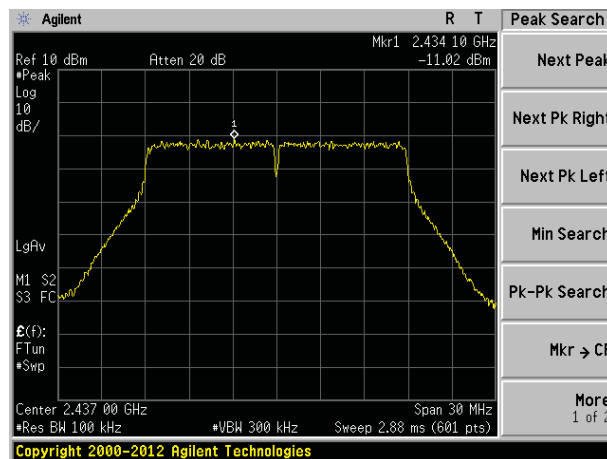


Highest channel

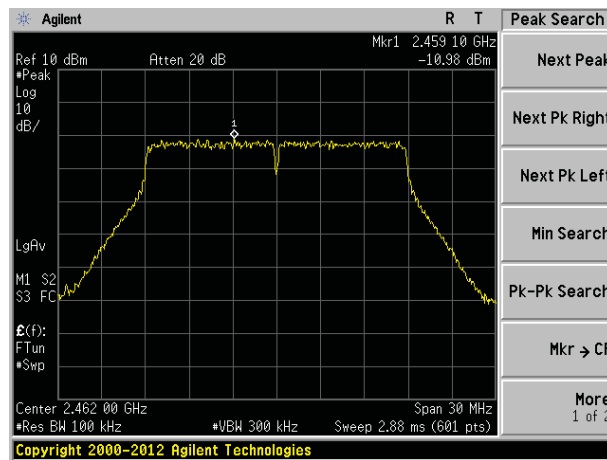
|            |               |
|------------|---------------|
| Test mode: | 802.11n(HT20) |
|------------|---------------|



Lowest channel

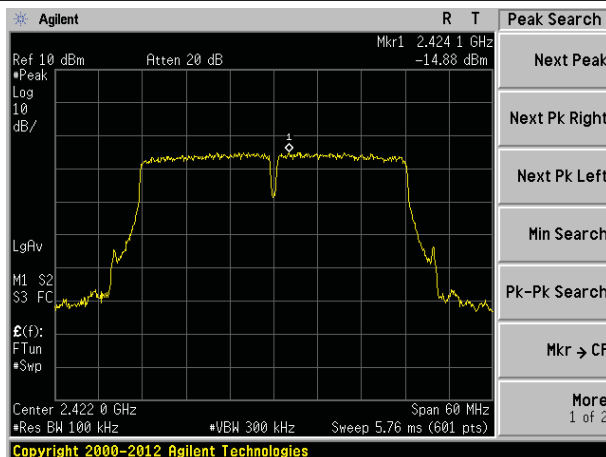


Middle channel

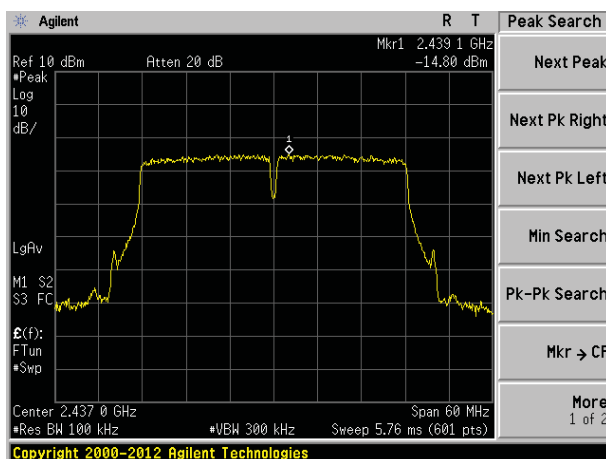


Highest channel

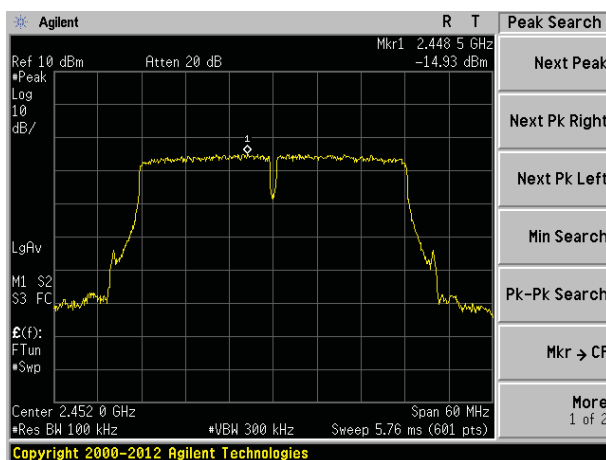
|            |               |
|------------|---------------|
| Test mode: | 802.11n(HT40) |
|------------|---------------|



Lowest channel



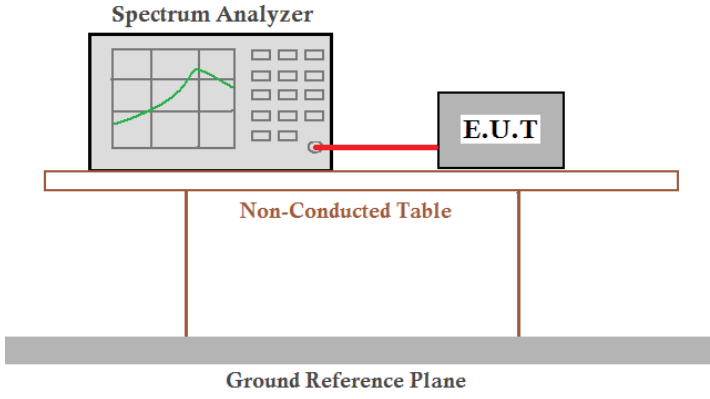
Middle channel



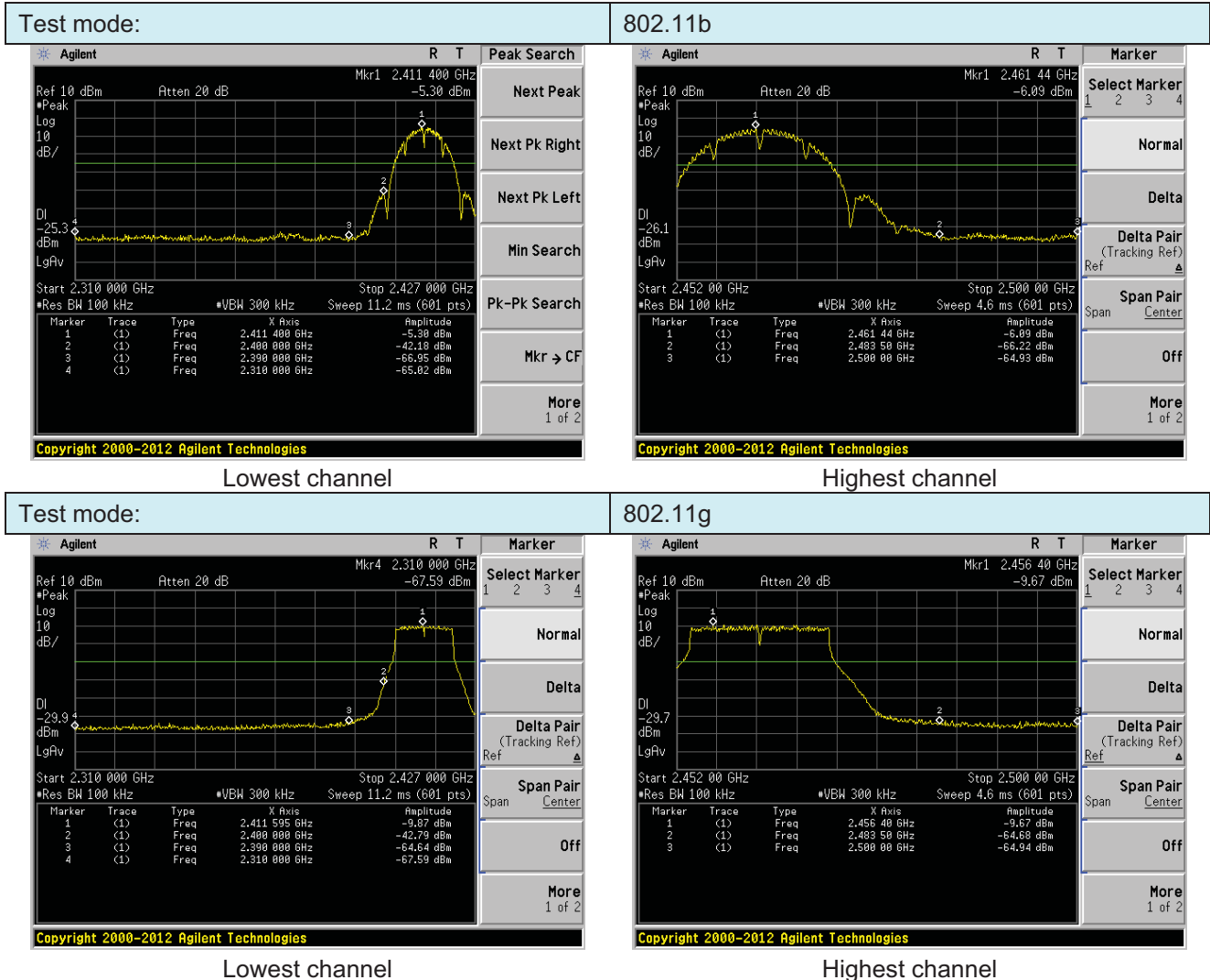
Highest channel

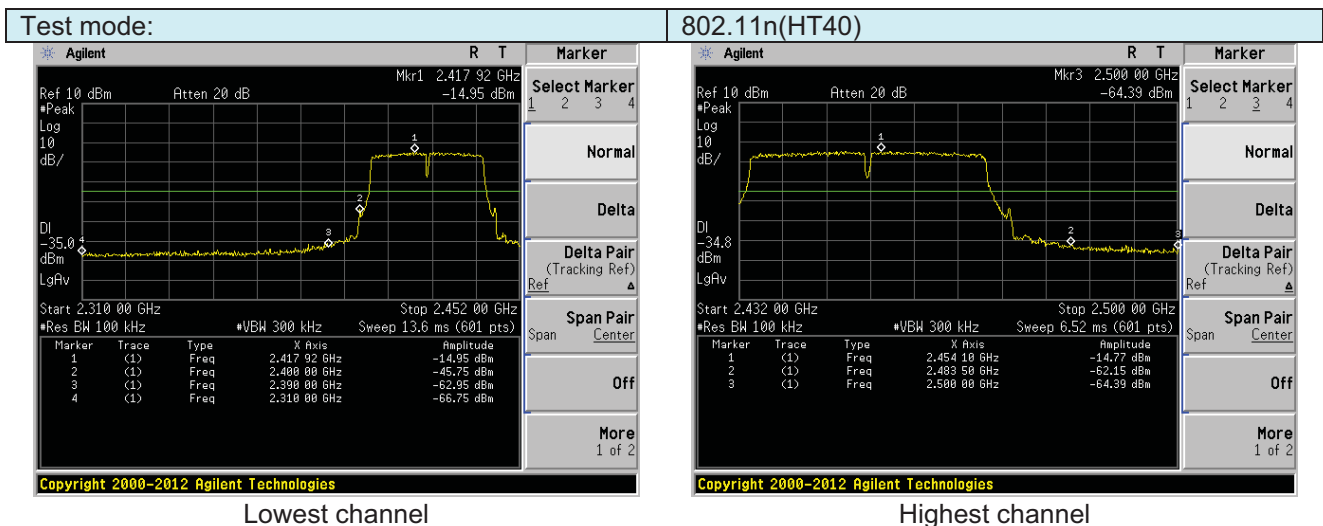
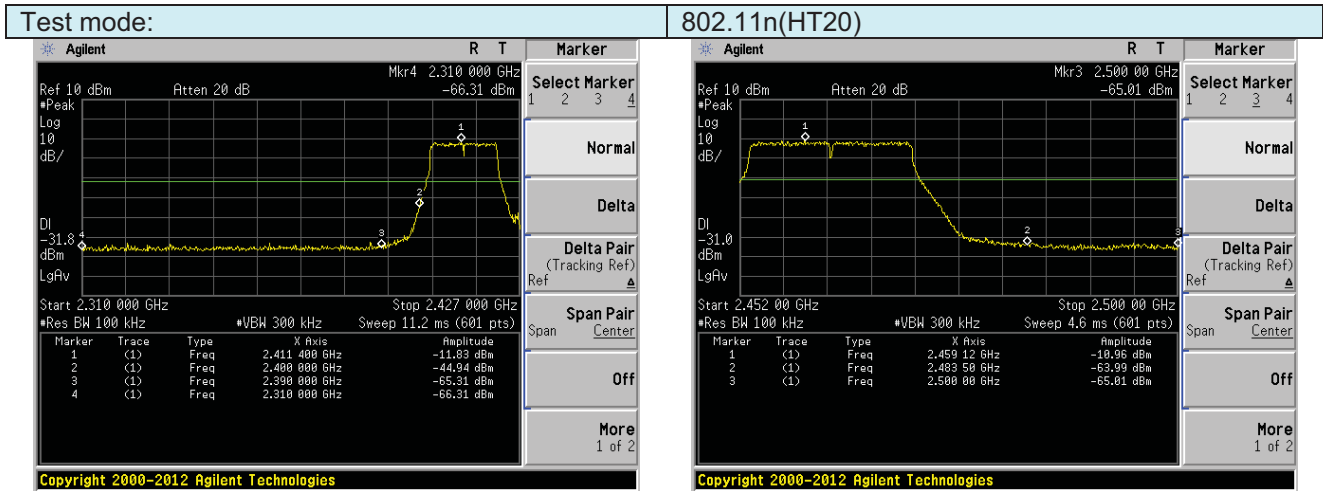
## 7.6 Band edges

### 7.6.1 Conducted Emission Method

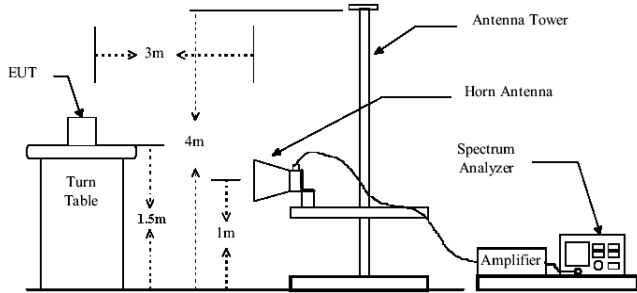
|                   |                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement: | FCC Part15 C Section 15.247 (d)                                                                                                                                                                                                                                                                                                                                                         |
| Test Method:      | ANSI C63.10:2013 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:       |  <p>The diagram illustrates the test setup for conducted emission measurement. A Spectrum Analyzer is connected via a red cable to an E.U.T. (Equipment Under Test). Both are placed on a Non-Conducted Table, which is supported by a Ground Reference Plane.</p>                                   |
| 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:





## 7.6.2 Radiated Emission Method

|                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |          |                    |      |         |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|--------------------|------|---------|
| Test Requirement:     | FCC Part15 C Section 15.209 and 15.205                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |          |                    |      |         |
| Test Method:          | ANSI C63.10:2013                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |          |                    |      |         |
| Test Frequency Range: | All of the restrict bands were tested, only the worst band's (2310MHz to 2500MHz) data was showed.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |                    |      |         |
| Test site:            | Measurement Distance: 3m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |          |                    |      |         |
| Receiver setup:       | Frequency                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Detector | RBW                | VBW  | Value   |
|                       | Above 1GHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Peak     | 1MHz               | 3MHz | Peak    |
|                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | RMS      | 1MHz               | 3MHz | Average |
| Limit:                | Frequency                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |          | Limit (dBuV/m @3m) |      | Value   |
|                       | Above 1GHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |          | 54.00              |      | Average |
|                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |          | 74.00              |      | Peak    |
| Test setup:           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |                    |      |         |
| Test Procedure:       | <ol style="list-style-type: none"><li>1. The EUT was placed on the top of a rotating table 1.5m above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.</li><li>2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</li><li>3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.</li><li>4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.</li><li>5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</li><li>6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.</li><li>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.</li></ol> |          |                    |      |         |
| Test Instruments:     | Refer to section 6.0 for details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |          |                    |      |         |
| Test mode:            | Refer to section 5.3 for details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |          |                    |      |         |
| Test results:         | Pass                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |          |                    |      |         |

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 mode: | 802.11b | Test channel: | Lowest |
|------------|---------|---------------|--------|

**Peak value:**

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------------|----------------|---------------------|-----------------|--------------|
| 2390.00         | 51.36             | 27.59                 | 5.38            | 34.01                    | 50.32          | 74.00               | -23.68          | Horizontal   |
| 2400.00         | 60.28             | 27.58                 | 5.39            | 34.01                    | 59.24          | 74.00               | -14.76          | Horizontal   |
| 2390.00         | 53.02             | 27.59                 | 5.38            | 34.01                    | 51.98          | 74.00               | -22.02          | Vertical     |
| 2400.00         | 62.00             | 27.58                 | 5.39            | 34.01                    | 60.96          | 74.00               | -13.04          | Vertical     |

**Average value:**

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------------|----------------|---------------------|-----------------|--------------|
| 2390.00         | 38.21             | 27.59                 | 5.38            | 34.01                    | 37.17          | 54.00               | -16.83          | Horizontal   |
| 2400.00         | 46.47             | 27.58                 | 5.39            | 34.01                    | 45.43          | 54.00               | -8.57           | Horizontal   |
| 2390.00         | 40.00             | 27.59                 | 5.38            | 34.01                    | 38.96          | 54.00               | -15.04          | Vertical     |
| 2400.00         | 47.57             | 27.58                 | 5.39            | 34.01                    | 46.53          | 54.00               | -7.47           | Vertical     |

|            |         |               |         |
|------------|---------|---------------|---------|
| Test mode: | 802.11b | Test channel: | Highest |
|------------|---------|---------------|---------|

**Peak value:**

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------------|----------------|---------------------|-----------------|--------------|
| 2483.50         | 51.90             | 27.53                 | 5.47            | 33.92                    | 50.98          | 74.00               | -23.02          | Horizontal   |
| 2500.00         | 47.82             | 27.55                 | 5.49            | 29.93                    | 50.93          | 74.00               | -23.07          | Horizontal   |
| 2483.50         | 54.10             | 27.53                 | 5.47            | 33.92                    | 53.18          | 74.00               | -20.82          | Vertical     |
| 2500.00         | 50.27             | 27.55                 | 5.49            | 29.93                    | 53.38          | 74.00               | -20.62          | Vertical     |

**Average value:**

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------------|----------------|---------------------|-----------------|--------------|
| 2483.50         | 38.53             | 27.53                 | 5.47            | 33.92                    | 37.61          | 54.00               | -16.39          | Horizontal   |
| 2500.00         | 34.68             | 27.55                 | 5.49            | 29.93                    | 37.79          | 54.00               | -16.21          | Horizontal   |
| 2483.50         | 40.45             | 27.53                 | 5.47            | 33.92                    | 39.53          | 54.00               | -14.47          | Vertical     |
| 2500.00         | 36.55             | 27.55                 | 5.49            | 29.93                    | 39.66          | 54.00               | -14.34          | 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.

|            |         |               |        |
|------------|---------|---------------|--------|
| Test mode: | 802.11g | Test channel: | Lowest |
|------------|---------|---------------|--------|

## Peak value:

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------------|----------------|---------------------|-----------------|--------------|
| 2390.00         | 50.23             | 27.59                 | 5.38            | 34.01                    | 49.19          | 74.00               | -24.81          | Horizontal   |
| 2400.00         | 58.77             | 27.58                 | 5.39            | 34.01                    | 57.73          | 74.00               | -16.27          | Horizontal   |
| 2390.00         | 51.81             | 27.59                 | 5.38            | 34.01                    | 50.77          | 74.00               | -23.23          | Vertical     |
| 2400.00         | 60.18             | 27.58                 | 5.39            | 34.01                    | 59.14          | 74.00               | -14.86          | Vertical     |

## Average value:

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------------|----------------|---------------------|-----------------|--------------|
| 2390.00         | 37.40             | 27.59                 | 5.38            | 34.01                    | 36.36          | 54.00               | -17.64          | Horizontal   |
| 2400.00         | 45.54             | 27.58                 | 5.39            | 34.01                    | 44.50          | 54.00               | -9.50           | Horizontal   |
| 2390.00         | 39.11             | 27.59                 | 5.38            | 34.01                    | 38.07          | 54.00               | -15.93          | Vertical     |
| 2400.00         | 46.56             | 27.58                 | 5.39            | 34.01                    | 45.52          | 54.00               | -8.48           | Vertical     |

|            |         |               |         |
|------------|---------|---------------|---------|
| Test mode: | 802.11g | Test channel: | Highest |
|------------|---------|---------------|---------|

## Peak value:

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------------|----------------|---------------------|-----------------|--------------|
| 2483.50         | 50.28             | 27.53                 | 5.47            | 33.92                    | 49.36          | 74.00               | -24.64          | Horizontal   |
| 2500.00         | 46.56             | 27.55                 | 5.49            | 29.93                    | 49.67          | 74.00               | -24.33          | Horizontal   |
| 2483.50         | 52.25             | 27.53                 | 5.47            | 33.92                    | 51.33          | 74.00               | -22.67          | Vertical     |
| 2500.00         | 48.80             | 27.55                 | 5.49            | 29.93                    | 51.91          | 74.00               | -22.09          | Vertical     |

## Average value:

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------------|----------------|---------------------|-----------------|--------------|
| 2483.50         | 37.55             | 27.53                 | 5.47            | 33.92                    | 36.63          | 54.00               | -17.37          | Horizontal   |
| 2500.00         | 33.92             | 27.55                 | 5.49            | 29.93                    | 37.03          | 54.00               | -16.97          | Horizontal   |
| 2483.50         | 39.37             | 27.53                 | 5.47            | 33.92                    | 38.45          | 54.00               | -15.55          | Vertical     |
| 2500.00         | 35.75             | 27.55                 | 5.49            | 29.93                    | 38.86          | 54.00               | -15.14          | 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.

|            |               |               |        |
|------------|---------------|---------------|--------|
| Test mode: | 802.11n(HT20) | Test channel: | Lowest |
|------------|---------------|---------------|--------|

**Peak value:**

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------------|----------------|---------------------|-----------------|--------------|
| 2390.00         | 50.33             | 27.59                 | 5.38            | 34.01                    | 49.29          | 74.00               | -24.71          | Horizontal   |
| 2400.00         | 58.90             | 27.58                 | 5.39            | 34.01                    | 57.86          | 74.00               | -16.14          | Horizontal   |
| 2390.00         | 51.92             | 27.59                 | 5.38            | 34.01                    | 50.88          | 74.00               | -23.12          | Vertical     |
| 2400.00         | 60.34             | 27.58                 | 5.39            | 34.01                    | 59.30          | 74.00               | -14.70          | Vertical     |

**Average value:**

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------------|----------------|---------------------|-----------------|--------------|
| 2390.00         | 37.47             | 27.59                 | 5.38            | 34.01                    | 36.43          | 54.00               | -17.57          | Horizontal   |
| 2400.00         | 45.62             | 27.58                 | 5.39            | 34.01                    | 44.58          | 54.00               | -9.42           | Horizontal   |
| 2390.00         | 39.19             | 27.59                 | 5.38            | 34.01                    | 38.15          | 54.00               | -15.85          | Vertical     |
| 2400.00         | 46.65             | 27.58                 | 5.39            | 34.01                    | 45.61          | 54.00               | -8.39           | Vertical     |

|            |               |               |         |
|------------|---------------|---------------|---------|
| Test mode: | 802.11n(HT20) | Test channel: | Highest |
|------------|---------------|---------------|---------|

**Peak value:**

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------------|----------------|---------------------|-----------------|--------------|
| 2483.50         | 50.42             | 27.53                 | 5.47            | 33.92                    | 49.50          | 74.00               | -24.50          | Horizontal   |
| 2500.00         | 46.67             | 27.55                 | 5.49            | 29.93                    | 49.78          | 74.00               | -24.22          | Horizontal   |
| 2483.50         | 52.41             | 27.53                 | 5.47            | 33.92                    | 51.49          | 74.00               | -22.51          | Vertical     |
| 2500.00         | 48.93             | 27.55                 | 5.49            | 29.93                    | 52.04          | 74.00               | -21.96          | Vertical     |

**Average value:**

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------------|----------------|---------------------|-----------------|--------------|
| 2483.50         | 37.64             | 27.53                 | 5.47            | 33.92                    | 36.72          | 54.00               | -17.28          | Horizontal   |
| 2500.00         | 33.99             | 27.55                 | 5.49            | 29.93                    | 37.10          | 54.00               | -16.90          | Horizontal   |
| 2483.50         | 39.47             | 27.53                 | 5.47            | 33.92                    | 38.55          | 54.00               | -15.45          | Vertical     |
| 2500.00         | 35.82             | 27.55                 | 5.49            | 29.93                    | 38.93          | 54.00               | -15.07          | 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.

|            |               |               |        |
|------------|---------------|---------------|--------|
| Test mode: | 802.11n(HT40) | Test channel: | Lowest |
|------------|---------------|---------------|--------|

**Peak value:**

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------------|----------------|---------------------|-----------------|--------------|
| 2390.00         | 49.73             | 27.59                 | 5.38            | 34.01                    | 48.69          | 74.00               | -25.31          | Horizontal   |
| 2400.00         | 58.10             | 27.58                 | 5.39            | 34.01                    | 57.06          | 74.00               | -16.94          | Horizontal   |
| 2390.00         | 51.28             | 27.59                 | 5.38            | 34.01                    | 50.24          | 74.00               | -23.76          | Vertical     |
| 2400.00         | 59.38             | 27.58                 | 5.39            | 34.01                    | 58.34          | 74.00               | -15.66          | Vertical     |

**Average value:**

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------------|----------------|---------------------|-----------------|--------------|
| 2390.00         | 37.05             | 27.59                 | 5.38            | 34.01                    | 36.01          | 54.00               | -17.99          | Horizontal   |
| 2400.00         | 45.13             | 27.58                 | 5.39            | 34.01                    | 44.09          | 54.00               | -9.91           | Horizontal   |
| 2390.00         | 38.71             | 27.59                 | 5.38            | 34.01                    | 37.67          | 54.00               | -16.33          | Vertical     |
| 2400.00         | 46.11             | 27.58                 | 5.39            | 34.01                    | 45.07          | 54.00               | -8.93           | Vertical     |

|            |               |               |         |
|------------|---------------|---------------|---------|
| Test mode: | 802.11n(HT40) | Test channel: | Highest |
|------------|---------------|---------------|---------|

**Peak value:**

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------------|----------------|---------------------|-----------------|--------------|
| 2483.50         | 49.56             | 27.53                 | 5.47            | 33.92                    | 48.64          | 74.00               | -25.36          | Horizontal   |
| 2500.00         | 46.01             | 27.55                 | 5.49            | 29.93                    | 49.12          | 74.00               | -24.88          | Horizontal   |
| 2483.50         | 51.43             | 27.53                 | 5.47            | 33.92                    | 50.51          | 74.00               | -23.49          | Vertical     |
| 2500.00         | 48.15             | 27.55                 | 5.49            | 29.93                    | 51.26          | 74.00               | -22.74          | Vertical     |

**Average value:**

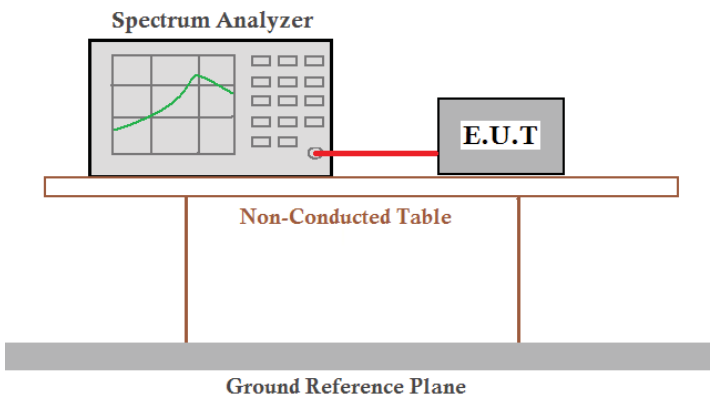
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------------|----------------|---------------------|-----------------|--------------|
| 2483.50         | 37.12             | 27.53                 | 5.47            | 33.92                    | 36.20          | 54.00               | -17.80          | Horizontal   |
| 2500.00         | 33.59             | 27.55                 | 5.49            | 29.93                    | 36.70          | 54.00               | -17.30          | Horizontal   |
| 2483.50         | 38.89             | 27.53                 | 5.47            | 33.92                    | 37.97          | 54.00               | -16.03          | Vertical     |
| 2500.00         | 35.39             | 27.55                 | 5.49            | 29.93                    | 38.50          | 54.00               | -15.50          | 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.

## 7.7 Spurious Emission

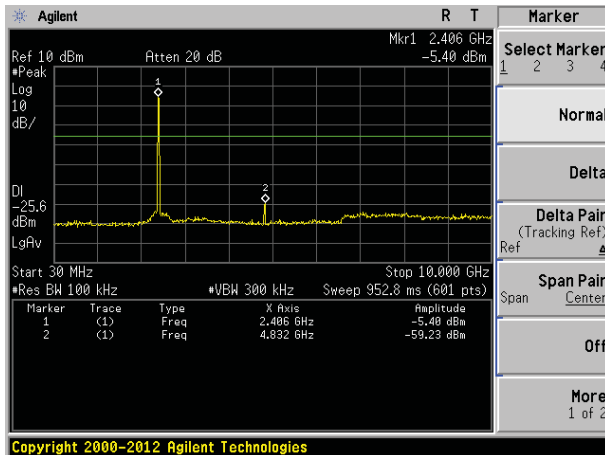
### 7.7.1 Conducted Emission Method

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement: | FCC Part15 C Section 15.247 (d)                                                                                                                                                                                                                                                                                                                                                                                              |
| Test Method:      | ANSI C63.10:2013 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:       |  <p>The diagram illustrates the test setup for conducted emission measurement. A Spectrum Analyzer is connected via a red cable to an E.U.T. (Equipment Under Test). Both are placed on a Non-Conducted Table, which is supported by two vertical legs. Below the table is a Ground Reference Plane, represented by a thick grey bar.</p> |
| Test Instruments: | Refer to section 6.0 for details                                                                                                                                                                                                                                                                                                                                                                                             |
| Test mode:        | Refer to section 5.3 for details                                                                                                                                                                                                                                                                                                                                                                                             |
| Test results:     | Pass                                                                                                                                                                                                                                                                                                                                                                                                                         |

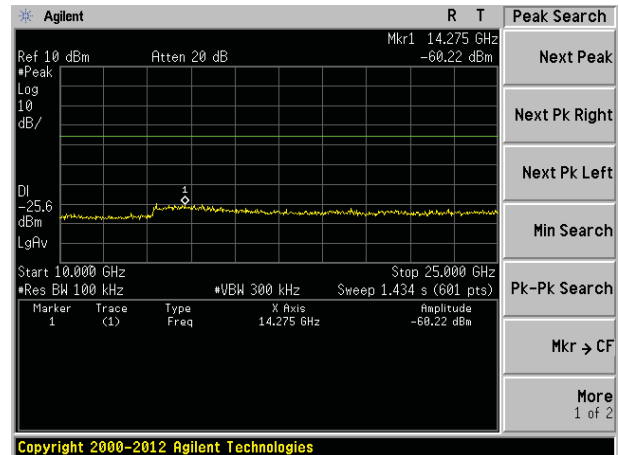
**Test plot as follows:**

|            |         |
|------------|---------|
| Test mode: | 802.11b |
|------------|---------|

**Lowest channel**

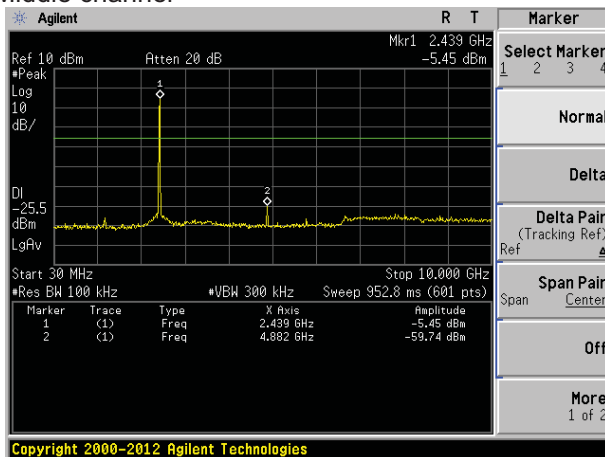


30MHz~10GHz

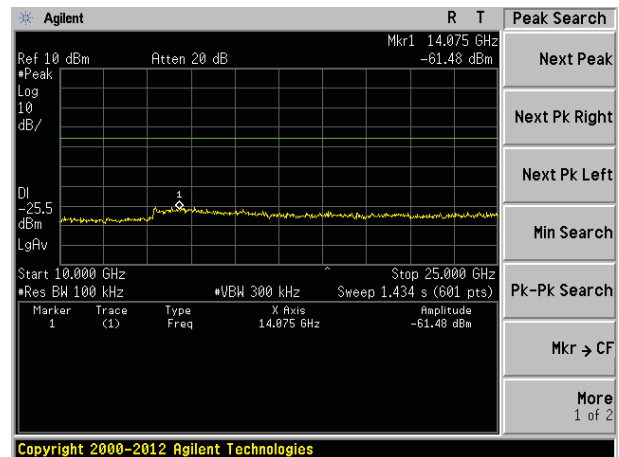


10GHz~25GHz

**Middle channel**

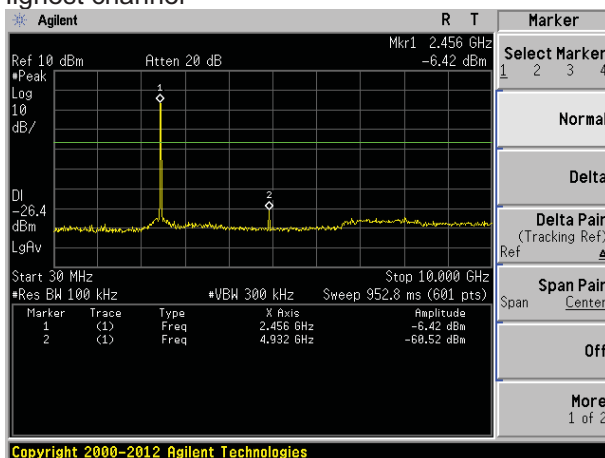


30MHz~10GHz

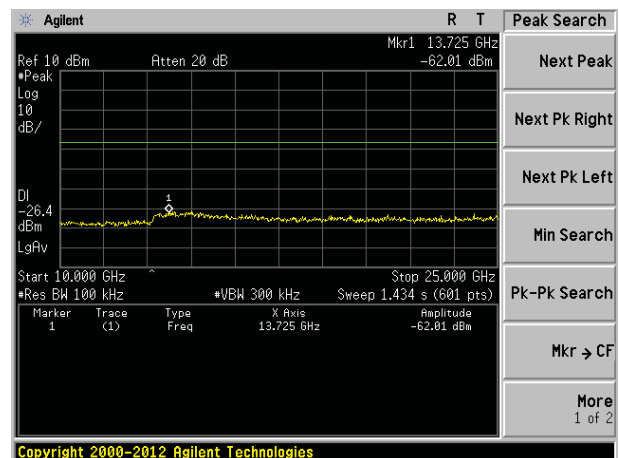


10GHz~25GHz

**Highest channel**



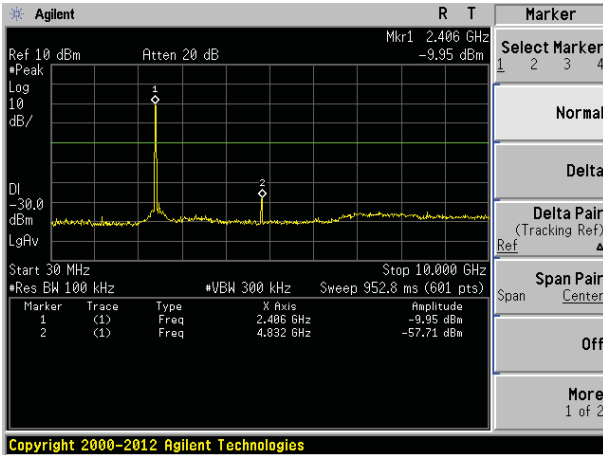
30MHz~10GHz



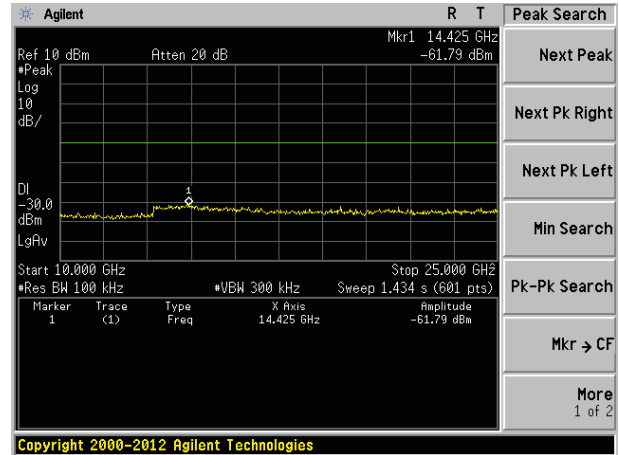
10GHz~25GHz

|            |         |
|------------|---------|
| Test mode: | 802.11g |
|------------|---------|

## Lowest channel

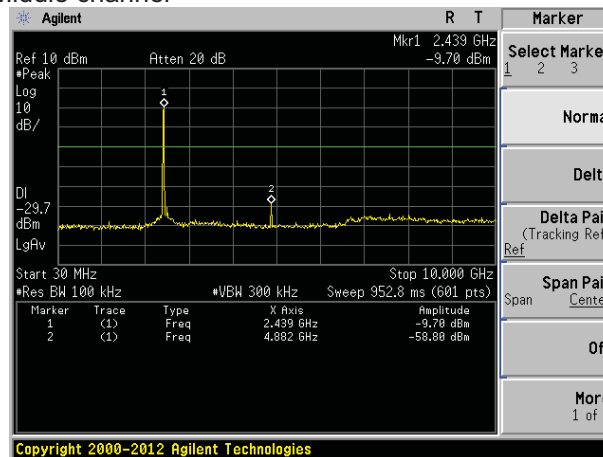


30MHz~10GHz

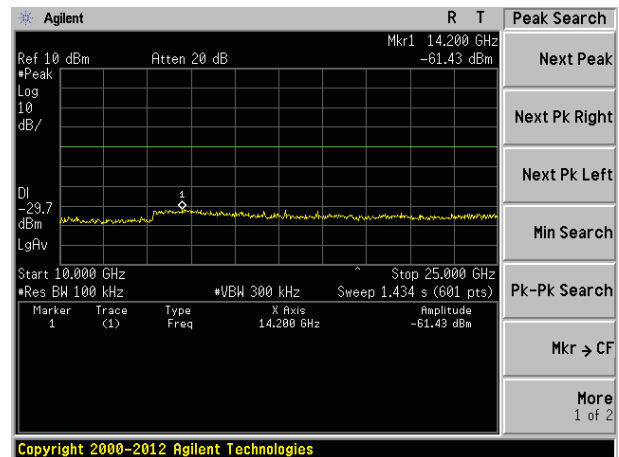


10GHz~25GHz

## Middle channel

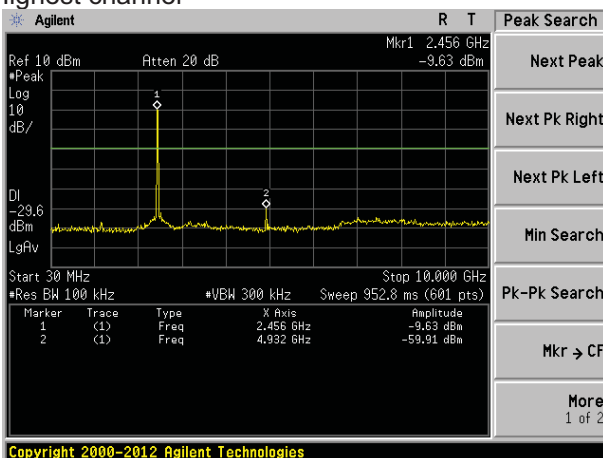


30MHz~10GHz

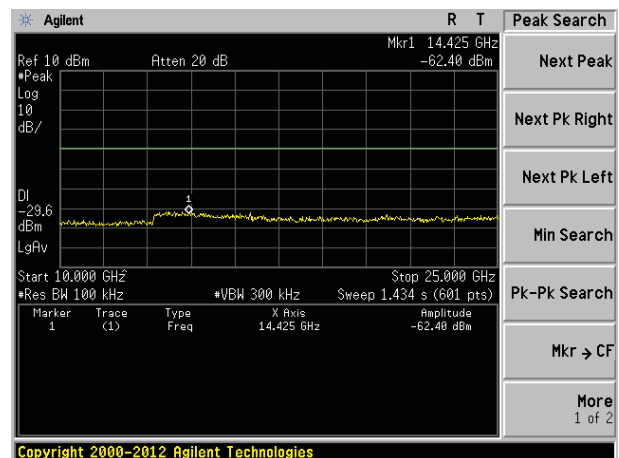


10GHz~25GHz

## Highest channel



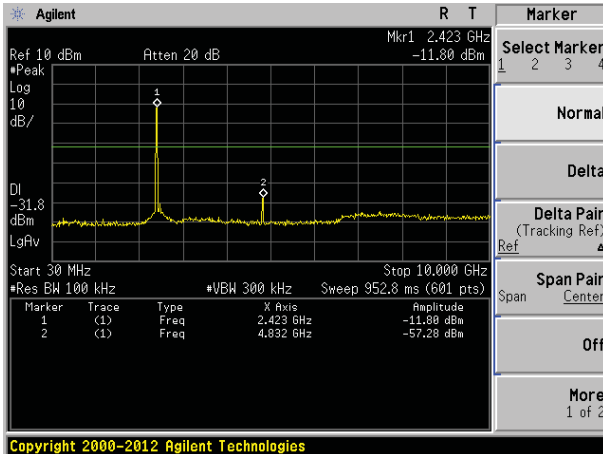
30MHz~10GHz



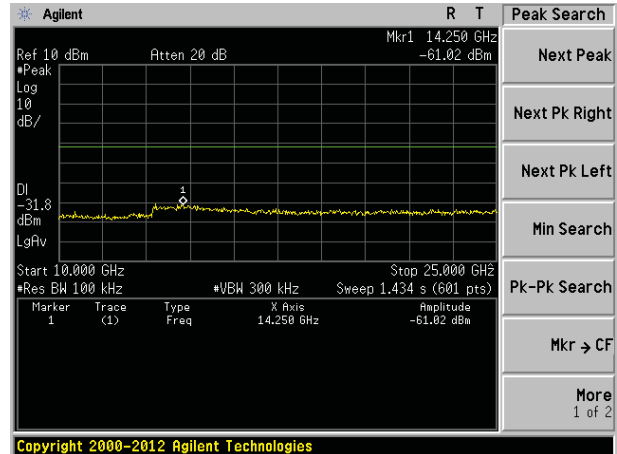
10GHz~25GHz

|            |               |
|------------|---------------|
| Test mode: | 802.11n(HT20) |
|------------|---------------|

## Lowest channel

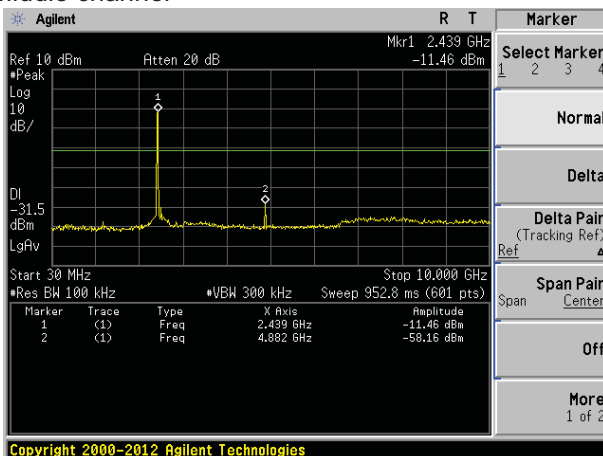


30MHz~10GHz

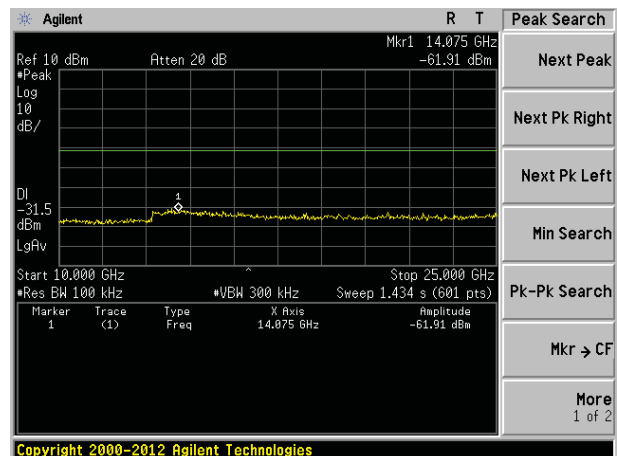


10GHz~25GHz

## Middle channel

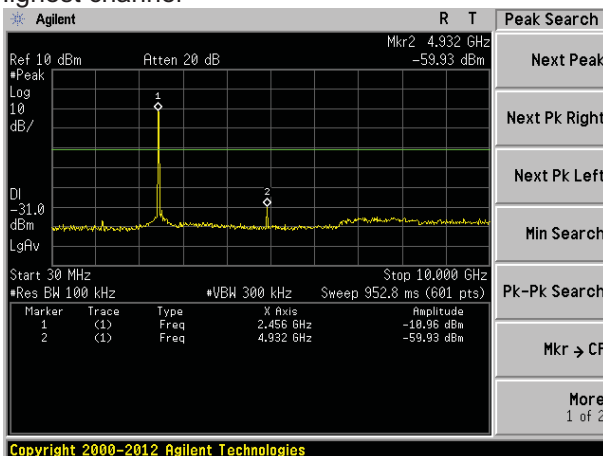


30MHz~10GHz

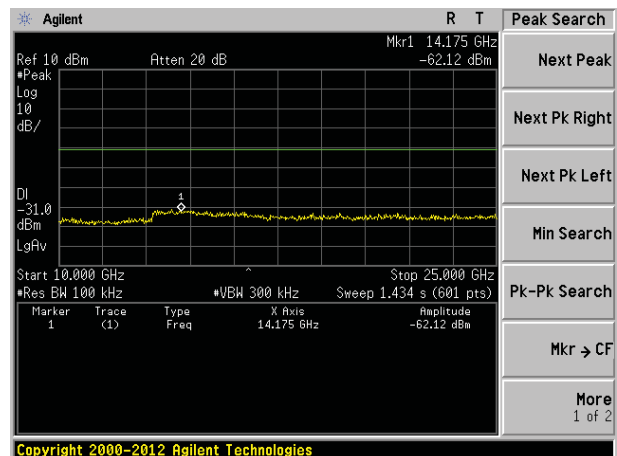


10GHz~25GHz

## Highest channel



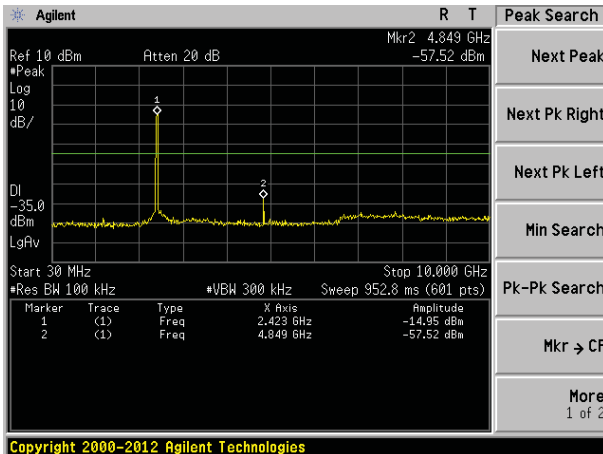
30MHz~10GHz



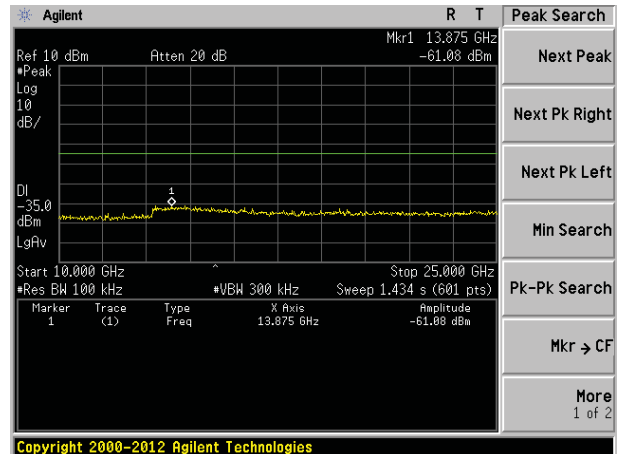
10GHz~25GHz

|            |               |
|------------|---------------|
| Test mode: | 802.11n(HT40) |
|------------|---------------|

## Lowest channel

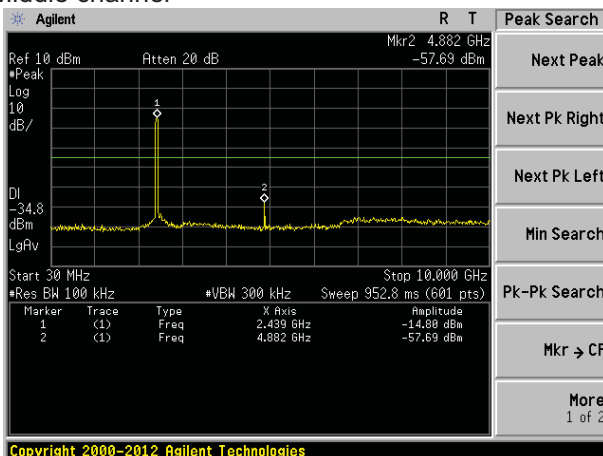


30MHz~10GHz

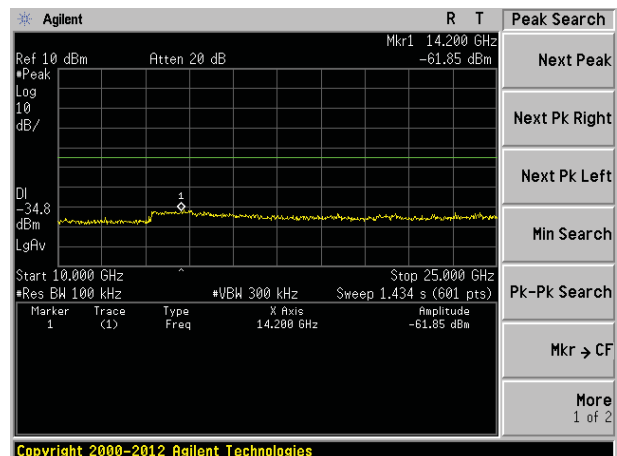


10GHz~25GHz

## Middle channel

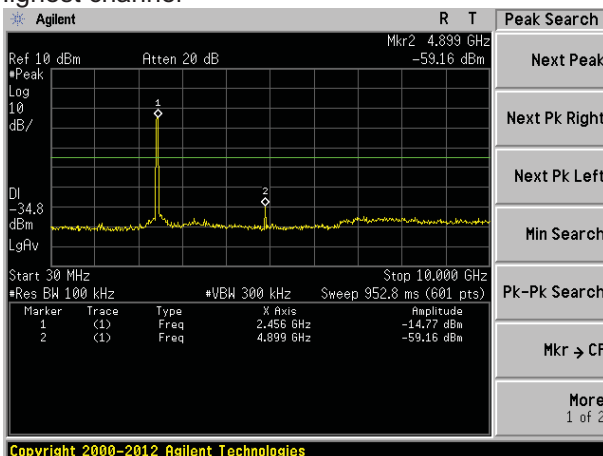


30MHz~10GHz

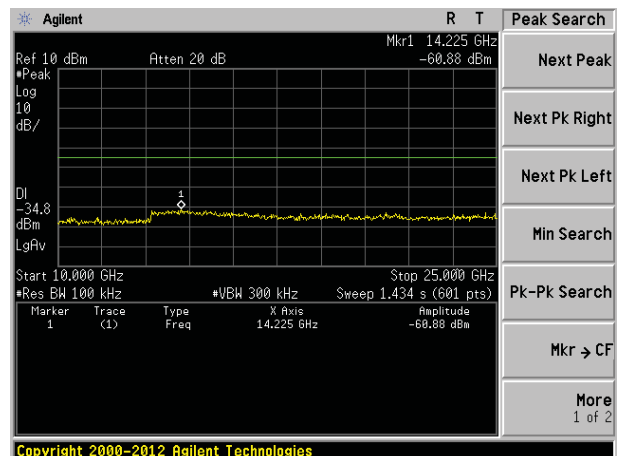


10GHz~25GHz

## Highest channel

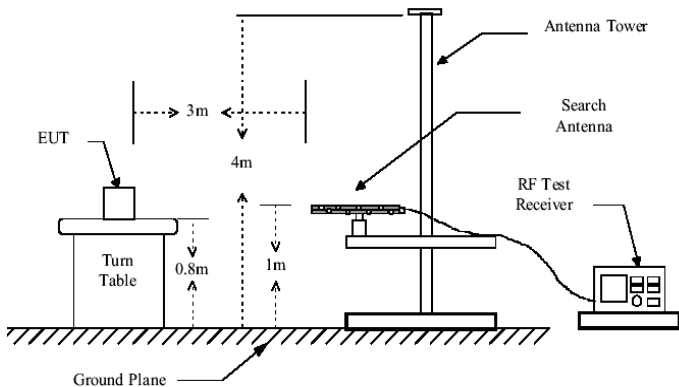
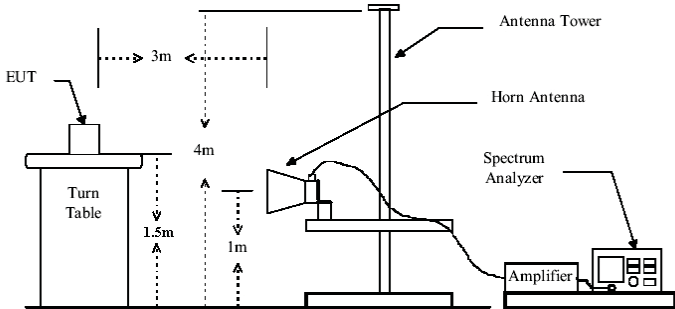


30MHz~10GHz



10GHz~25GHz

## 7.7.2 Radiated Emission Method

|                       |                                                                                      |            |                    |        |            |
|-----------------------|--------------------------------------------------------------------------------------|------------|--------------------|--------|------------|
| Test Requirement:     | FCC Part15 C Section 15.209                                                          |            |                    |        |            |
| Test Method:          | ANSI C63.10:2013                                                                     |            |                    |        |            |
| Test Frequency Range: | 30MHz to 25GHz                                                                       |            |                    |        |            |
| Test site:            | Measurement Distance: 3m                                                             |            |                    |        |            |
| Receiver setup:       | Frequency                                                                            | Detector   | RBW                | VBW    | Value      |
|                       | 30MHz-1GHz                                                                           | Quasi-peak | 120KHz             | 300KHz | Quasi-peak |
|                       | Above 1GHz                                                                           | Peak       | 1MHz               | 3MHz   | Peak       |
|                       |                                                                                      | RMS        | 1MHz               | 3MHz   | Average    |
| Limit:                | Frequency                                                                            |            | Limit (dBuV/m @3m) |        | Value      |
|                       | 30MHz-88MHz                                                                          |            | 40.00              |        | Quasi-peak |
|                       | 88MHz-216MHz                                                                         |            | 43.50              |        | Quasi-peak |
|                       | 216MHz-960MHz                                                                        |            | 46.00              |        | Quasi-peak |
|                       | 960MHz-1GHz                                                                          |            | 54.00              |        | Quasi-peak |
|                       | Above 1GHz                                                                           |            | 54.00              |        | Average    |
|                       |                                                                                      |            | 74.00              |        | Peak       |
| Test setup:           | Below 1GHz                                                                           |            |                    |        |            |
|                       |  |            |                    |        |            |
| Test setup:           | Above 1GHz                                                                           |            |                    |        |            |
|                       |  |            |                    |        |            |

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Procedure:   | <ol style="list-style-type: none"> <li>1. The EUT was placed on the top of a rotating table (0.8m for below 1GHz and 1.5 meters for above 1GHz) above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.</li> <li>2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</li> <li>3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.</li> <li>4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.</li> <li>5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</li> <li>6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.</li> <li>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.</li> </ol> |
| 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 (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 33.80           | 38.94             | 14.31                 | 0.59            | 30.08              | 23.76          | 40.00               | -16.24          | Vertical     |
| 85.00           | 47.10             | 12.31                 | 1.07            | 29.77              | 30.71          | 40.00               | -9.29           | Vertical     |
| 180.02          | 47.27             | 11.68                 | 1.74            | 29.27              | 31.42          | 43.50               | -12.08          | Vertical     |
| 429.52          | 38.31             | 17.51                 | 2.99            | 29.44              | 29.37          | 46.00               | -16.63          | Vertical     |
| 560.69          | 35.73             | 19.77                 | 3.56            | 29.30              | 29.76          | 46.00               | -16.24          | Vertical     |
| 787.85          | 25.28             | 21.92                 | 4.41            | 29.20              | 22.41          | 46.00               | -23.59          | Vertical     |
| 75.98           | 34.63             | 9.97                  | 0.99            | 29.82              | 15.77          | 40.00               | -24.23          | Horizontal   |
| 119.44          | 42.89             | 12.58                 | 1.36            | 29.57              | 27.26          | 43.50               | -16.24          | Horizontal   |
| 191.75          | 45.05             | 12.56                 | 1.80            | 29.23              | 30.18          | 43.50               | -13.32          | Horizontal   |
| 294.11          | 37.69             | 14.95                 | 2.33            | 29.97              | 25.00          | 46.00               | -21.00          | Horizontal   |
| 432.55          | 29.05             | 17.53                 | 3.01            | 29.43              | 20.16          | 46.00               | -25.84          | Horizontal   |
| 562.66          | 40.12             | 19.83                 | 3.57            | 29.30              | 34.22          | 46.00               | -11.78          | Horizontal   |

## ■ Above 1GHz

|            |         |               |        |
|------------|---------|---------------|--------|
| Test mode: | 802.11b | Test channel: | Lowest |
|------------|---------|---------------|--------|

### Peak value:

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 4824.00         | 39.85             | 31.79                 | 8.62            | 32.10              | 48.16          | 74.00               | -25.84          | Vertical     |
| 7236.00         | 33.94             | 36.19                 | 11.68           | 31.97              | 49.84          | 74.00               | -24.16          | Vertical     |
| 9648.00         | 32.51             | 38.07                 | 14.16           | 31.56              | 53.18          | 74.00               | -20.82          | Vertical     |
| 12060.00        | *                 |                       |                 |                    |                | 74.00               |                 | Vertical     |
| 14472.00        | *                 |                       |                 |                    |                | 74.00               |                 | Vertical     |
| 16884.00        | *                 |                       |                 |                    |                | 74.00               |                 | Vertical     |
| 4824.00         | 38.59             | 31.79                 | 8.62            | 32.10              | 46.90          | 74.00               | -27.10          | Horizontal   |
| 7236.00         | 33.72             | 36.19                 | 11.68           | 31.97              | 49.62          | 74.00               | -24.38          | Horizontal   |
| 9648.00         | 32.11             | 38.07                 | 14.16           | 31.56              | 52.78          | 74.00               | -21.22          | Horizontal   |
| 12060.00        | *                 |                       |                 |                    |                | 74.00               |                 | Horizontal   |
| 14472.00        | *                 |                       |                 |                    |                | 74.00               |                 | Horizontal   |
| 16884.00        | *                 |                       |                 |                    |                | 74.00               |                 | Horizontal   |

### Average value:

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 4824.00         | 28.97             | 31.79                 | 8.62            | 32.10              | 37.28          | 54.00               | -16.72          | Vertical     |
| 7236.00         | 22.81             | 36.19                 | 11.68           | 31.97              | 38.71          | 54.00               | -15.29          | Vertical     |
| 9648.00         | 22.87             | 38.07                 | 14.16           | 31.56              | 43.54          | 54.00               | -10.46          | Vertical     |
| 12060.00        | *                 |                       |                 |                    |                | 54.00               |                 | Vertical     |
| 14472.00        | *                 |                       |                 |                    |                | 54.00               |                 | Vertical     |
| 16884.00        | *                 |                       |                 |                    |                | 54.00               |                 | Vertical     |
| 4824.00         | 28.15             | 31.79                 | 8.62            | 32.10              | 36.46          | 54.00               | -17.54          | Horizontal   |
| 7236.00         | 22.31             | 36.19                 | 11.68           | 31.97              | 38.21          | 54.00               | -15.79          | Horizontal   |
| 9648.00         | 21.86             | 38.07                 | 14.16           | 31.56              | 42.53          | 54.00               | -11.47          | Horizontal   |
| 12060.00        | *                 |                       |                 |                    |                | 54.00               |                 | Horizontal   |
| 14472.00        | *                 |                       |                 |                    |                | 54.00               |                 | Horizontal   |
| 16884.00        | *                 |                       |                 |                    |                | 54.00               |                 | Horizontal   |

### Remark:

1. Final Level =Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
2. “\*”, means this data is the too weak instrument of signal is unable to test.

|            |         |               |        |
|------------|---------|---------------|--------|
| Test mode: | 802.11b | Test channel: | Middle |
|------------|---------|---------------|--------|

**Peak value:**

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 4874.00         | 38.98             | 31.85                 | 8.66            | 32.12              | 47.37          | 74.00               | -26.63          | Vertical     |
| 7311.00         | 34.06             | 36.37                 | 11.71           | 31.91              | 50.23          | 74.00               | -23.77          | Vertical     |
| 9748.00         | 33.57             | 38.27                 | 14.25           | 31.56              | 54.53          | 74.00               | -19.47          | Vertical     |
| 12185.00        | *                 |                       |                 |                    |                | 74.00               |                 | Vertical     |
| 14622.00        | *                 |                       |                 |                    |                | 74.00               |                 | Vertical     |
| 17059.00        | *                 |                       |                 |                    |                | 74.00               |                 | Vertical     |
| 4874.00         | 39.52             | 31.85                 | 8.66            | 32.12              | 47.91          | 74.00               | -26.09          | Horizontal   |
| 7311.00         | 32.73             | 36.37                 | 11.71           | 31.91              | 48.90          | 74.00               | -25.10          | Horizontal   |
| 9748.00         | 33.47             | 38.27                 | 14.25           | 31.56              | 54.43          | 74.00               | -19.57          | Horizontal   |
| 12185.00        | *                 |                       |                 |                    |                | 74.00               |                 | Horizontal   |
| 14622.00        | *                 |                       |                 |                    |                | 74.00               |                 | Horizontal   |
| 17059.00        | *                 |                       |                 |                    |                | 74.00               |                 | Horizontal   |

**Average value:**

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 4874.00         | 29.86             | 31.85                 | 8.66            | 32.12              | 38.25          | 54.00               | -15.75          | Vertical     |
| 7311.00         | 22.38             | 36.37                 | 11.71           | 31.91              | 38.55          | 54.00               | -15.45          | Vertical     |
| 9748.00         | 22.83             | 38.27                 | 14.25           | 31.56              | 43.79          | 54.00               | -10.21          | Vertical     |
| 12185.00        | *                 |                       |                 |                    |                | 54.00               |                 | Vertical     |
| 14622.00        | *                 |                       |                 |                    |                | 54.00               |                 | Vertical     |
| 17059.00        | *                 |                       |                 |                    |                | 54.00               |                 | Vertical     |
| 4874.00         | 29.65             | 31.85                 | 8.66            | 32.12              | 38.04          | 54.00               | -15.96          | Horizontal   |
| 7311.00         | 21.82             | 36.37                 | 11.71           | 31.91              | 37.99          | 54.00               | -16.01          | Horizontal   |
| 9748.00         | 23.19             | 38.27                 | 14.25           | 31.56              | 44.15          | 54.00               | -9.85           | Horizontal   |
| 12185.00        | *                 |                       |                 |                    |                | 54.00               |                 | Horizontal   |
| 14622.00        | *                 |                       |                 |                    |                | 54.00               |                 | Horizontal   |
| 17059.00        | *                 |                       |                 |                    |                | 54.00               |                 | Horizontal   |

**Remark:**

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Pre-amplifier Factor
2. “\*”, means this data is too weak instrument of signal is unable to test.

|            |         |               |         |
|------------|---------|---------------|---------|
| Test mode: | 802.11b | Test channel: | Highest |
|------------|---------|---------------|---------|

**Peak value:**

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------------|----------------|---------------------|-----------------|--------------|
| 4924.00         | 44.24             | 31.90                 | 8.70            | 32.15                    | 52.69          | 74.00               | -21.31          | Vertical     |
| 7386.00         | 34.56             | 36.49                 | 11.76           | 31.83                    | 50.98          | 74.00               | -23.02          | Vertical     |
| 9848.00         | 36.74             | 38.62                 | 14.31           | 31.77                    | 57.90          | 74.00               | -16.10          | Vertical     |
| 12310.00        | *                 |                       |                 |                          |                | 74.00               |                 | Vertical     |
| 14772.00        | *                 |                       |                 |                          |                | 74.00               |                 | Vertical     |
| 17234.00        | *                 |                       |                 |                          |                | 74.00               |                 | Vertical     |
| 4924.00         | 43.65             | 31.90                 | 8.70            | 32.15                    | 52.10          | 74.00               | -21.90          | Horizontal   |
| 7386.00         | 33.51             | 36.49                 | 11.76           | 31.83                    | 49.93          | 74.00               | -24.07          | Horizontal   |
| 9848.00         | 32.93             | 38.62                 | 14.31           | 31.77                    | 54.09          | 74.00               | -19.91          | Horizontal   |
| 12310.00        | *                 |                       |                 |                          |                | 74.00               |                 | Horizontal   |
| 14772.00        | *                 |                       |                 |                          |                | 74.00               |                 | Horizontal   |
| 17234.00        | *                 |                       |                 |                          |                | 74.00               |                 | Horizontal   |

**Average value:**

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------------|----------------|---------------------|-----------------|--------------|
| 4924.00         | 35.21             | 31.90                 | 8.70            | 32.15                    | 43.66          | 54.00               | -10.34          | Vertical     |
| 7386.00         | 24.49             | 36.49                 | 11.76           | 31.83                    | 40.91          | 54.00               | -13.09          | Vertical     |
| 9848.00         | 25.26             | 38.62                 | 14.31           | 31.77                    | 46.42          | 54.00               | -7.58           | Vertical     |
| 12310.00        | *                 |                       |                 |                          |                | 54.00               |                 | Vertical     |
| 14772.00        | *                 |                       |                 |                          |                | 54.00               |                 | Vertical     |
| 17234.00        | *                 |                       |                 |                          |                | 54.00               |                 | Vertical     |
| 4924.00         | 34.05             | 31.90                 | 8.70            | 32.15                    | 42.50          | 54.00               | -11.50          | Horizontal   |
| 7386.00         | 22.91             | 36.49                 | 11.76           | 31.83                    | 39.33          | 54.00               | -14.67          | Horizontal   |
| 9848.00         | 22.20             | 38.62                 | 14.31           | 31.77                    | 43.36          | 54.00               | -10.64          | Horizontal   |
| 12310.00        | *                 |                       |                 |                          |                | 54.00               |                 | Horizontal   |
| 14772.00        | *                 |                       |                 |                          |                | 54.00               |                 | Horizontal   |
| 17234.00        | *                 |                       |                 |                          |                | 54.00               |                 | Horizontal   |

**Remark:**

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
2. “\*”, means this data is the too weak instrument of signal is unable to test.

|            |         |               |        |
|------------|---------|---------------|--------|
| Test mode: | 802.11g | Test channel: | lowest |
|------------|---------|---------------|--------|

## Peak value:

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 4824.00         | 39.23             | 31.79                 | 8.62            | 32.10              | 47.54          | 74.00               | -26.46          | Vertical     |
| 7236.00         | 33.55             | 36.19                 | 11.68           | 31.97              | 49.45          | 74.00               | -24.55          | Vertical     |
| 9648.00         | 32.23             | 38.07                 | 14.16           | 31.56              | 52.90          | 74.00               | -21.10          | Vertical     |
| 12060.00        | *                 |                       |                 |                    |                | 74.00               |                 | Vertical     |
| 14472.00        | *                 |                       |                 |                    |                | 74.00               |                 | Vertical     |
| 16884.00        | *                 |                       |                 |                    |                | 74.00               |                 | Vertical     |
| 4824.00         | 38.07             | 31.79                 | 8.62            | 32.10              | 46.38          | 74.00               | -27.62          | Horizontal   |
| 7236.00         | 33.38             | 36.19                 | 11.68           | 31.97              | 49.28          | 74.00               | -24.72          | Horizontal   |
| 9648.00         | 31.85             | 38.07                 | 14.16           | 31.56              | 52.52          | 74.00               | -21.48          | Horizontal   |
| 12060.00        | *                 |                       |                 |                    |                | 74.00               |                 | Horizontal   |
| 14472.00        | *                 |                       |                 |                    |                | 74.00               |                 | Horizontal   |
| 16884.00        | *                 |                       |                 |                    |                | 74.00               |                 | Horizontal   |

## Average value:

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 4824.00         | 28.40             | 31.79                 | 8.62            | 32.10              | 36.71          | 54.00               | -17.29          | Vertical     |
| 7236.00         | 22.44             | 36.19                 | 11.68           | 31.97              | 38.34          | 54.00               | -15.66          | Vertical     |
| 9648.00         | 22.60             | 38.07                 | 14.16           | 31.56              | 43.27          | 54.00               | -10.73          | Vertical     |
| 12060.00        | *                 |                       |                 |                    |                | 54.00               |                 | Vertical     |
| 14472.00        | *                 |                       |                 |                    |                | 54.00               |                 | Vertical     |
| 16884.00        | *                 |                       |                 |                    |                | 54.00               |                 | Vertical     |
| 4824.00         | 27.66             | 31.79                 | 8.62            | 32.10              | 35.97          | 54.00               | -18.03          | Horizontal   |
| 7236.00         | 21.98             | 36.19                 | 11.68           | 31.97              | 37.88          | 54.00               | -16.12          | Horizontal   |
| 9648.00         | 21.61             | 38.07                 | 14.16           | 31.56              | 42.28          | 54.00               | -11.72          | Horizontal   |
| 12060.00        | *                 |                       |                 |                    |                | 54.00               |                 | Horizontal   |
| 14472.00        | *                 |                       |                 |                    |                | 54.00               |                 | Horizontal   |
| 16884.00        | *                 |                       |                 |                    |                | 54.00               |                 | Horizontal   |

## Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Pre-amplifier Factor
2. “\*”, means this data is too weak, instrument of signal is unable to test.

|            |         |               |        |
|------------|---------|---------------|--------|
| Test mode: | 802.11g | Test channel: | Middle |
|------------|---------|---------------|--------|

**Peak value:**

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 4874.00         | 38.47             | 31.85                 | 8.66            | 32.12              | 46.86          | 74.00               | -27.14          | Vertical     |
| 7311.00         | 33.73             | 36.37                 | 11.71           | 31.91              | 49.90          | 74.00               | -24.10          | Vertical     |
| 9748.00         | 33.34             | 38.27                 | 14.25           | 31.56              | 54.30          | 74.00               | -19.70          | Vertical     |
| 12185.00        | *                 |                       |                 |                    |                | 74.00               |                 | Vertical     |
| 14622.00        | *                 |                       |                 |                    |                | 74.00               |                 | Vertical     |
| 17059.00        | *                 |                       |                 |                    |                | 74.00               |                 | Vertical     |
| 4874.00         | 39.09             | 31.85                 | 8.66            | 32.12              | 47.48          | 74.00               | -26.52          | Horizontal   |
| 7311.00         | 32.45             | 36.37                 | 11.71           | 31.91              | 48.62          | 74.00               | -25.38          | Horizontal   |
| 9748.00         | 33.26             | 38.27                 | 14.25           | 31.56              | 54.22          | 74.00               | -19.78          | Horizontal   |
| 12185.00        | *                 |                       |                 |                    |                | 74.00               |                 | Horizontal   |
| 14622.00        | *                 |                       |                 |                    |                | 74.00               |                 | Horizontal   |
| 17059.00        | *                 |                       |                 |                    |                | 74.00               |                 | Horizontal   |

**Average value:**

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 4874.00         | 29.39             | 31.85                 | 8.66            | 32.12              | 37.78          | 54.00               | -16.22          | Vertical     |
| 7311.00         | 22.07             | 36.37                 | 11.71           | 31.91              | 38.24          | 54.00               | -15.76          | Vertical     |
| 9748.00         | 22.60             | 38.27                 | 14.25           | 31.56              | 43.56          | 54.00               | -10.44          | Vertical     |
| 12185.00        | *                 |                       |                 |                    |                | 54.00               |                 | Vertical     |
| 14622.00        | *                 |                       |                 |                    |                | 54.00               |                 | Vertical     |
| 17059.00        | *                 |                       |                 |                    |                | 54.00               |                 | Vertical     |
| 4874.00         | 29.25             | 31.85                 | 8.66            | 32.12              | 37.64          | 54.00               | -16.36          | Horizontal   |
| 7311.00         | 21.55             | 36.37                 | 11.71           | 31.91              | 37.72          | 54.00               | -16.28          | Horizontal   |
| 9748.00         | 22.98             | 38.27                 | 14.25           | 31.56              | 43.94          | 54.00               | -10.06          | Horizontal   |
| 12185.00        | *                 |                       |                 |                    |                | 54.00               |                 | Horizontal   |
| 14622.00        | *                 |                       |                 |                    |                | 54.00               |                 | Horizontal   |
| 17059.00        | *                 |                       |                 |                    |                | 54.00               |                 | Horizontal   |

**Remark:**

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
2. “\*”, means this data is the too weak instrument of signal is unable to test.

|            |         |               |         |
|------------|---------|---------------|---------|
| Test mode: | 802.11g | Test channel: | Highest |
|------------|---------|---------------|---------|

**Peak value:**

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------------|----------------|---------------------|-----------------|--------------|
| 4924.00         | 43.37             | 31.90                 | 8.70            | 32.15                    | 51.82          | 74.00               | -22.18          | Vertical     |
| 7386.00         | 34.01             | 36.49                 | 11.76           | 31.83                    | 50.43          | 74.00               | -23.57          | Vertical     |
| 9848.00         | 36.34             | 38.62                 | 14.31           | 31.77                    | 57.50          | 74.00               | -16.50          | Vertical     |
| 12310.00        | *                 |                       |                 |                          |                | 74.00               |                 | Vertical     |
| 14772.00        | *                 |                       |                 |                          |                | 74.00               |                 | Vertical     |
| 17234.00        | *                 |                       |                 |                          |                | 74.00               |                 | Vertical     |
| 4924.00         | 42.91             | 31.90                 | 8.70            | 32.15                    | 51.36          | 74.00               | -22.64          | Horizontal   |
| 7386.00         | 33.03             | 36.49                 | 11.76           | 31.83                    | 49.45          | 74.00               | -24.55          | Horizontal   |
| 9848.00         | 32.57             | 38.62                 | 14.31           | 31.77                    | 53.73          | 74.00               | -20.27          | Horizontal   |
| 12310.00        | *                 |                       |                 |                          |                | 74.00               |                 | Horizontal   |
| 14772.00        | *                 |                       |                 |                          |                | 74.00               |                 | Horizontal   |
| 17234.00        | *                 |                       |                 |                          |                | 74.00               |                 | Horizontal   |

**Average value:**

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------------|----------------|---------------------|-----------------|--------------|
| 4924.00         | 34.40             | 31.90                 | 8.70            | 32.15                    | 42.85          | 54.00               | -11.15          | Vertical     |
| 7386.00         | 23.96             | 36.49                 | 11.76           | 31.83                    | 40.38          | 54.00               | -13.62          | Vertical     |
| 9848.00         | 24.87             | 38.62                 | 14.31           | 31.77                    | 46.03          | 54.00               | -7.97           | Vertical     |
| 12310.00        | *                 |                       |                 |                          |                | 54.00               |                 | Vertical     |
| 14772.00        | *                 |                       |                 |                          |                | 54.00               |                 | Vertical     |
| 17234.00        | *                 |                       |                 |                          |                | 54.00               |                 | Vertical     |
| 4924.00         | 33.35             | 31.90                 | 8.70            | 32.15                    | 41.80          | 54.00               | -12.20          | Horizontal   |
| 7386.00         | 22.44             | 36.49                 | 11.76           | 31.83                    | 38.86          | 54.00               | -15.14          | Horizontal   |
| 9848.00         | 21.85             | 38.62                 | 14.31           | 31.77                    | 43.01          | 54.00               | -10.99          | Horizontal   |
| 12310.00        | *                 |                       |                 |                          |                | 54.00               |                 | Horizontal   |
| 14772.00        | *                 |                       |                 |                          |                | 54.00               |                 | Horizontal   |
| 17234.00        | *                 |                       |                 |                          |                | 54.00               |                 | Horizontal   |

**Remark:**

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
2. “\*”, means this data is the too weak instrument of signal is unable to test.

|            |               |               |        |
|------------|---------------|---------------|--------|
| Test mode: | 802.11n(HT20) | Test channel: | Lowest |
|------------|---------------|---------------|--------|

**Peak value:**

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 4824.00         | 39.45             | 31.79                 | 8.62            | 32.10              | 47.76          | 74.00               | -26.24          | Vertical     |
| 7236.00         | 33.69             | 36.19                 | 11.68           | 31.97              | 49.59          | 74.00               | -24.41          | Vertical     |
| 9648.00         | 32.33             | 38.07                 | 14.16           | 31.56              | 53.00          | 74.00               | -21.00          | Vertical     |
| 12060.00        | *                 |                       |                 |                    |                | 74.00               |                 | Vertical     |
| 14472.00        | *                 |                       |                 |                    |                | 74.00               |                 | Vertical     |
| 16884.00        | *                 |                       |                 |                    |                | 74.00               |                 | Vertical     |
| 4824.00         | 38.25             | 31.79                 | 8.62            | 32.10              | 46.56          | 74.00               | -27.44          | Horizontal   |
| 7236.00         | 33.50             | 36.19                 | 11.68           | 31.97              | 49.40          | 74.00               | -24.60          | Horizontal   |
| 9648.00         | 31.94             | 38.07                 | 14.16           | 31.56              | 52.61          | 74.00               | -21.39          | Horizontal   |
| 12060.00        | *                 |                       |                 |                    |                | 74.00               |                 | Horizontal   |
| 14472.00        | *                 |                       |                 |                    |                | 74.00               |                 | Horizontal   |
| 16884.00        | *                 |                       |                 |                    |                | 74.00               |                 | Horizontal   |

**Average value:**

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 4824.00         | 28.60             | 31.79                 | 8.62            | 32.10              | 36.91          | 54.00               | -17.09          | Vertical     |
| 7236.00         | 22.57             | 36.19                 | 11.68           | 31.97              | 38.47          | 54.00               | -15.53          | Vertical     |
| 9648.00         | 22.69             | 38.07                 | 14.16           | 31.56              | 43.36          | 54.00               | -10.64          | Vertical     |
| 12060.00        | *                 |                       |                 |                    |                | 54.00               |                 | Vertical     |
| 14472.00        | *                 |                       |                 |                    |                | 54.00               |                 | Vertical     |
| 16884.00        | *                 |                       |                 |                    |                | 54.00               |                 | Vertical     |
| 4824.00         | 27.83             | 31.79                 | 8.62            | 32.10              | 36.14          | 54.00               | -17.86          | Horizontal   |
| 7236.00         | 22.10             | 36.19                 | 11.68           | 31.97              | 38.00          | 54.00               | -16.00          | Horizontal   |
| 9648.00         | 21.70             | 38.07                 | 14.16           | 31.56              | 42.37          | 54.00               | -11.63          | Horizontal   |
| 12060.00        | *                 |                       |                 |                    |                | 54.00               |                 | Horizontal   |
| 14472.00        | *                 |                       |                 |                    |                | 54.00               |                 | Horizontal   |
| 16884.00        | *                 |                       |                 |                    |                | 54.00               |                 | Horizontal   |

**Remark:**

1. Final Level =Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
2. “\*”, means this data is the too weak instrument of signal is unable to test.

|            |               |               |        |
|------------|---------------|---------------|--------|
| Test mode: | 802.11n(HT20) | Test channel: | Middle |
|------------|---------------|---------------|--------|

## Peak value:

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------------|----------------|---------------------|-----------------|--------------|
| 4874.00         | 38.65             | 31.85                 | 8.66            | 32.12                    | 47.04          | 74.00               | -26.96          | Vertical     |
| 7311.00         | 33.85             | 36.37                 | 11.71           | 31.91                    | 50.02          | 74.00               | -23.98          | Vertical     |
| 9748.00         | 33.42             | 38.27                 | 14.25           | 31.56                    | 54.38          | 74.00               | -19.62          | Vertical     |
| 12185.00        | *                 |                       |                 |                          |                | 74.00               |                 | Vertical     |
| 14622.00        | *                 |                       |                 |                          |                | 74.00               |                 | Vertical     |
| 17059.00        | *                 |                       |                 |                          |                | 74.00               |                 | Vertical     |
| 4874.00         | 39.24             | 31.85                 | 8.66            | 32.12                    | 47.63          | 74.00               | -26.37          | Horizontal   |
| 7311.00         | 32.55             | 36.37                 | 11.71           | 31.91                    | 48.72          | 74.00               | -25.28          | Horizontal   |
| 9748.00         | 33.33             | 38.27                 | 14.25           | 31.56                    | 54.29          | 74.00               | -19.71          | Horizontal   |
| 12185.00        | *                 |                       |                 |                          |                | 74.00               |                 | Horizontal   |
| 14622.00        | *                 |                       |                 |                          |                | 74.00               |                 | Horizontal   |
| 17059.00        | *                 |                       |                 |                          |                | 74.00               |                 | Horizontal   |

## Average value:

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------------|----------------|---------------------|-----------------|--------------|
| 4874.00         | 29.56             | 31.85                 | 8.66            | 32.12                    | 37.95          | 54.00               | -16.05          | Vertical     |
| 7311.00         | 22.18             | 36.37                 | 11.71           | 31.91                    | 38.35          | 54.00               | -15.65          | Vertical     |
| 9748.00         | 22.68             | 38.27                 | 14.25           | 31.56                    | 43.64          | 54.00               | -10.36          | Vertical     |
| 12185.00        | *                 |                       |                 |                          |                | 54.00               |                 | Vertical     |
| 14622.00        | *                 |                       |                 |                          |                | 54.00               |                 | Vertical     |
| 17059.00        | *                 |                       |                 |                          |                | 54.00               |                 | Vertical     |
| 4874.00         | 29.39             | 31.85                 | 8.66            | 32.12                    | 37.78          | 54.00               | -16.22          | Horizontal   |
| 7311.00         | 21.64             | 36.37                 | 11.71           | 31.91                    | 37.81          | 54.00               | -16.19          | Horizontal   |
| 9748.00         | 23.06             | 38.27                 | 14.25           | 31.56                    | 44.02          | 54.00               | -9.98           | Horizontal   |
| 12185.00        | *                 |                       |                 |                          |                | 54.00               |                 | Horizontal   |
| 14622.00        | *                 |                       |                 |                          |                | 54.00               |                 | Horizontal   |
| 17059.00        | *                 |                       |                 |                          |                | 54.00               |                 | Horizontal   |

## Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
2. “\*”, means this data is the too weak instrument of signal is unable to test.

|            |               |               |         |
|------------|---------------|---------------|---------|
| Test mode: | 802.11n(HT20) | Test channel: | Highest |
|------------|---------------|---------------|---------|

**Peak value:**

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 4924.00         | 43.68             | 31.90                 | 8.70            | 32.15              | 52.13          | 74.00               | -21.87          | Vertical     |
| 7386.00         | 34.21             | 36.49                 | 11.76           | 31.83              | 50.63          | 74.00               | -23.37          | Vertical     |
| 9848.00         | 36.49             | 38.62                 | 14.31           | 31.77              | 57.65          | 74.00               | -16.35          | Vertical     |
| 12310.00        | *                 |                       |                 |                    |                | 74.00               |                 | Vertical     |
| 14772.00        | *                 |                       |                 |                    |                | 74.00               |                 | Vertical     |
| 17234.00        | *                 |                       |                 |                    |                | 74.00               |                 | Vertical     |
| 4924.00         | 43.17             | 31.90                 | 8.70            | 32.15              | 51.62          | 74.00               | -22.38          | Horizontal   |
| 7386.00         | 33.20             | 36.49                 | 11.76           | 31.83              | 49.62          | 74.00               | -24.38          | Horizontal   |
| 9848.00         | 32.70             | 38.62                 | 14.31           | 31.77              | 53.86          | 74.00               | -20.14          | Horizontal   |
| 12310.00        | *                 |                       |                 |                    |                | 74.00               |                 | Horizontal   |
| 14772.00        | *                 |                       |                 |                    |                | 74.00               |                 | Horizontal   |
| 17234.00        | *                 |                       |                 |                    |                | 74.00               |                 | Horizontal   |

**Average value:**

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 4924.00         | 34.69             | 31.90                 | 8.70            | 32.15              | 43.14          | 54.00               | -10.86          | Vertical     |
| 7386.00         | 24.15             | 36.49                 | 11.76           | 31.83              | 40.57          | 54.00               | -13.43          | Vertical     |
| 9848.00         | 25.01             | 38.62                 | 14.31           | 31.77              | 46.17          | 54.00               | -7.83           | Vertical     |
| 12310.00        | *                 |                       |                 |                    |                | 54.00               |                 | Vertical     |
| 14772.00        | *                 |                       |                 |                    |                | 54.00               |                 | Vertical     |
| 17234.00        | *                 |                       |                 |                    |                | 54.00               |                 | Vertical     |
| 4924.00         | 33.60             | 31.90                 | 8.70            | 32.15              | 42.05          | 54.00               | -11.95          | Horizontal   |
| 7386.00         | 22.61             | 36.49                 | 11.76           | 31.83              | 39.03          | 54.00               | -14.97          | Horizontal   |
| 9848.00         | 21.98             | 38.62                 | 14.31           | 31.77              | 43.14          | 54.00               | -10.86          | Horizontal   |
| 12310.00        | *                 |                       |                 |                    |                | 54.00               |                 | Horizontal   |
| 14772.00        | *                 |                       |                 |                    |                | 54.00               |                 | Horizontal   |
| 17234.00        | *                 |                       |                 |                    |                | 54.00               |                 | Horizontal   |

**Remark:**

- 1 Final Level =Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
- 2 “\*”, means this data is the too weak instrument of signal is unable to test.

|            |               |               |        |
|------------|---------------|---------------|--------|
| Test mode: | 802.11n(HT40) | Test channel: | Lowest |
|------------|---------------|---------------|--------|

**Peak value:**

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------------|----------------|---------------------|-----------------|--------------|
| 4844.00         | 38.47             | 31.81                 | 8.63            | 32.11                    | 46.80          | 74.00               | -27.20          | Vertical     |
| 7266.00         | 33.07             | 36.28                 | 11.69           | 31.94                    | 49.10          | 74.00               | -24.90          | Vertical     |
| 9688.00         | 31.89             | 38.13                 | 14.21           | 31.52                    | 52.71          | 74.00               | -21.29          | Vertical     |
| 12060.00        | *                 |                       |                 |                          |                | 74.00               |                 | Vertical     |
| 14472.00        | *                 |                       |                 |                          |                | 74.00               |                 | Vertical     |
| 16884.00        | *                 |                       |                 |                          |                | 74.00               |                 | Vertical     |
| 4844.00         | 37.42             | 31.81                 | 8.63            | 32.11                    | 45.75          | 74.00               | -28.25          | Horizontal   |
| 7266.00         | 32.96             | 36.28                 | 11.69           | 31.94                    | 48.99          | 74.00               | -25.01          | Horizontal   |
| 9688.00         | 31.53             | 38.13                 | 14.21           | 31.52                    | 52.35          | 74.00               | -21.65          | Horizontal   |
| 12060.00        | *                 |                       |                 |                          |                | 74.00               |                 | Horizontal   |
| 14472.00        | *                 |                       |                 |                          |                | 74.00               |                 | Horizontal   |
| 16884.00        | *                 |                       |                 |                          |                | 74.00               |                 | Horizontal   |

**Average value:**

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------------|----------------|---------------------|-----------------|--------------|
| 4844.00         | 27.70             | 31.81                 | 8.63            | 32.11                    | 36.03          | 54.00               | -17.97          | Vertical     |
| 7266.00         | 21.97             | 36.28                 | 11.69           | 31.94                    | 38.00          | 54.00               | -16.00          | Vertical     |
| 9688.00         | 22.27             | 38.13                 | 14.21           | 31.52                    | 43.09          | 54.00               | -10.91          | Vertical     |
| 12060.00        | *                 |                       |                 |                          |                | 54.00               |                 | Vertical     |
| 14472.00        | *                 |                       |                 |                          |                | 54.00               |                 | Vertical     |
| 16884.00        | *                 |                       |                 |                          |                | 54.00               |                 | Vertical     |
| 4844.00         | 27.06             | 31.81                 | 8.63            | 32.11                    | 35.39          | 54.00               | -18.61          | Horizontal   |
| 7266.00         | 21.57             | 36.28                 | 11.69           | 31.94                    | 37.60          | 54.00               | -16.40          | Horizontal   |
| 9688.00         | 21.31             | 38.13                 | 14.21           | 31.52                    | 42.13          | 54.00               | -11.87          | Horizontal   |
| 12060.00        | *                 |                       |                 |                          |                | 54.00               |                 | Horizontal   |
| 14472.00        | *                 |                       |                 |                          |                | 54.00               |                 | Horizontal   |
| 16884.00        | *                 |                       |                 |                          |                | 54.00               |                 | Horizontal   |

**Remark:**

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
2. “\*”, means this data is the too weak instrument of signal is unable to test.

|            |               |               |        |
|------------|---------------|---------------|--------|
| Test mode: | 802.11n(HT40) | Test channel: | Middle |
|------------|---------------|---------------|--------|

## Peak value:

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 4874.00         | 37.84             | 31.85                 | 8.66            | 32.12              | 46.23          | 74.00               | -27.77          | Vertical     |
| 7311.00         | 33.34             | 36.37                 | 11.71           | 31.91              | 49.51          | 74.00               | -24.49          | Vertical     |
| 9748.00         | 33.05             | 38.27                 | 14.25           | 31.56              | 54.01          | 74.00               | -19.99          | Vertical     |
| 12185.00        | *                 |                       |                 |                    |                | 74.00               |                 | Vertical     |
| 14622.00        | *                 |                       |                 |                    |                | 74.00               |                 | Vertical     |
| 17059.00        | *                 |                       |                 |                    |                | 74.00               |                 | Vertical     |
| 4874.00         | 38.56             | 31.85                 | 8.66            | 32.12              | 46.95          | 74.00               | -27.05          | Horizontal   |
| 7311.00         | 32.10             | 36.37                 | 11.71           | 31.91              | 48.27          | 74.00               | -25.73          | Horizontal   |
| 9748.00         | 32.99             | 38.27                 | 14.25           | 31.56              | 53.95          | 74.00               | -20.05          | Horizontal   |
| 12185.00        | *                 |                       |                 |                    |                | 74.00               |                 | Horizontal   |
| 14622.00        | *                 |                       |                 |                    |                | 74.00               |                 | Horizontal   |
| 17059.00        | *                 |                       |                 |                    |                | 74.00               |                 | Horizontal   |

## Average value:

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 4874.00         | 28.81             | 31.85                 | 8.66            | 32.12              | 37.20          | 54.00               | -16.80          | Vertical     |
| 7311.00         | 21.69             | 36.37                 | 11.71           | 31.91              | 37.86          | 54.00               | -16.14          | Vertical     |
| 9748.00         | 22.33             | 38.27                 | 14.25           | 31.56              | 43.29          | 54.00               | -10.71          | Vertical     |
| 12185.00        | *                 |                       |                 |                    |                | 54.00               |                 | Vertical     |
| 14622.00        | *                 |                       |                 |                    |                | 54.00               |                 | Vertical     |
| 17059.00        | *                 |                       |                 |                    |                | 54.00               |                 | Vertical     |
| 4874.00         | 28.75             | 31.85                 | 8.66            | 32.12              | 37.14          | 54.00               | -16.86          | Horizontal   |
| 7311.00         | 21.21             | 36.37                 | 11.71           | 31.91              | 37.38          | 54.00               | -16.62          | Horizontal   |
| 9748.00         | 22.73             | 38.27                 | 14.25           | 31.56              | 43.69          | 54.00               | -10.31          | Horizontal   |
| 12185.00        | *                 |                       |                 |                    |                | 54.00               |                 | Horizontal   |
| 14622.00        | *                 |                       |                 |                    |                | 54.00               |                 | Horizontal   |
| 17059.00        | *                 |                       |                 |                    |                | 54.00               |                 | Horizontal   |

## Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
2. “\*”, means this data is the too weak instrument of signal is unable to test.

|            |               |               |         |
|------------|---------------|---------------|---------|
| Test mode: | 802.11n(HT40) | Test channel: | Highest |
|------------|---------------|---------------|---------|

## Peak value:

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 4904.00         | 42.28             | 31.88                 | 8.68            | 32.13              | 50.71          | 74.00               | -23.29          | Vertical     |
| 7356.00         | 33.32             | 36.45                 | 11.75           | 31.86              | 49.66          | 74.00               | -24.34          | Vertical     |
| 9808.00         | 35.85             | 38.43                 | 14.29           | 31.68              | 56.89          | 74.00               | -17.11          | Vertical     |
| 12310.00        | *                 |                       |                 |                    |                | 74.00               |                 | Vertical     |
| 14772.00        | *                 |                       |                 |                    |                | 74.00               |                 | Vertical     |
| 17234.00        | *                 |                       |                 |                    |                | 74.00               |                 | Vertical     |
| 4904.00         | 41.99             | 31.88                 | 8.68            | 32.13              | 50.42          | 74.00               | -23.58          | Horizontal   |
| 7356.00         | 32.43             | 36.45                 | 11.75           | 31.86              | 48.77          | 74.00               | -25.23          | Horizontal   |
| 9808.00         | 32.12             | 38.43                 | 14.29           | 31.68              | 53.16          | 74.00               | -20.84          | Horizontal   |
| 12310.00        | *                 |                       |                 |                    |                | 74.00               |                 | Horizontal   |
| 14772.00        | *                 |                       |                 |                    |                | 74.00               |                 | Horizontal   |
| 17234.00        | *                 |                       |                 |                    |                | 74.00               |                 | Horizontal   |

## Average value:

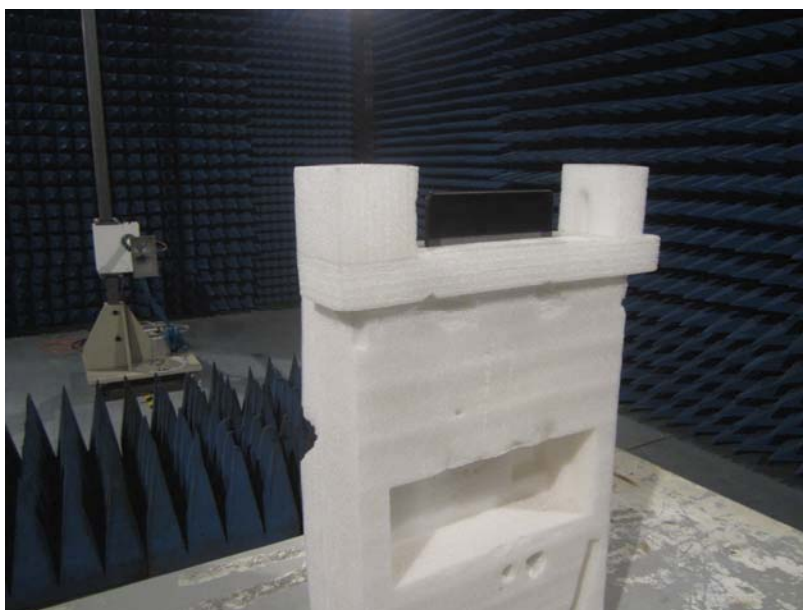
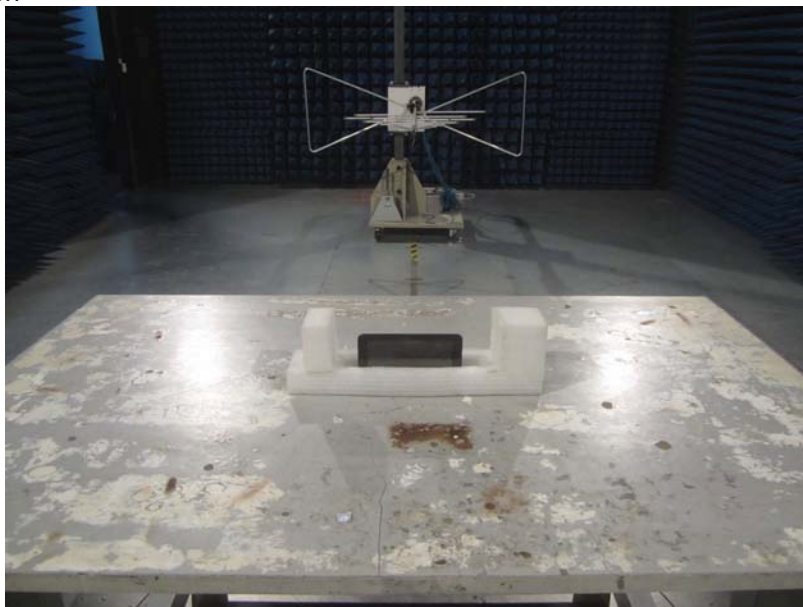
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 4904.00         | 33.40             | 31.88                 | 8.68            | 32.13              | 41.83          | 54.00               | -12.17          | Vertical     |
| 7356.00         | 23.30             | 36.45                 | 11.75           | 31.86              | 39.64          | 54.00               | -14.36          | Vertical     |
| 9808.00         | 24.40             | 38.43                 | 14.29           | 31.68              | 45.44          | 54.00               | -8.56           | Vertical     |
| 12310.00        | *                 |                       |                 |                    |                | 54.00               |                 | Vertical     |
| 14772.00        | *                 |                       |                 |                    |                | 54.00               |                 | Vertical     |
| 17234.00        | *                 |                       |                 |                    |                | 54.00               |                 | Vertical     |
| 4904.00         | 32.49             | 31.88                 | 8.68            | 32.13              | 40.92          | 54.00               | -13.08          | Horizontal   |
| 7356.00         | 21.86             | 36.45                 | 11.75           | 31.86              | 38.20          | 54.00               | -15.80          | Horizontal   |
| 9808.00         | 21.42             | 38.43                 | 14.29           | 31.68              | 42.46          | 54.00               | -11.54          | Horizontal   |
| 12310.00        | *                 |                       |                 |                    |                | 54.00               |                 | Horizontal   |
| 14772.00        | *                 |                       |                 |                    |                | 54.00               |                 | Horizontal   |
| 17234.00        | *                 |                       |                 |                    |                | 54.00               |                 | Horizontal   |

## Remark:

- 1 Final Level =Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
- 2 “\*”, means this data is the too weak instrument of signal is unable to test.

## 8 Test Setup Photo

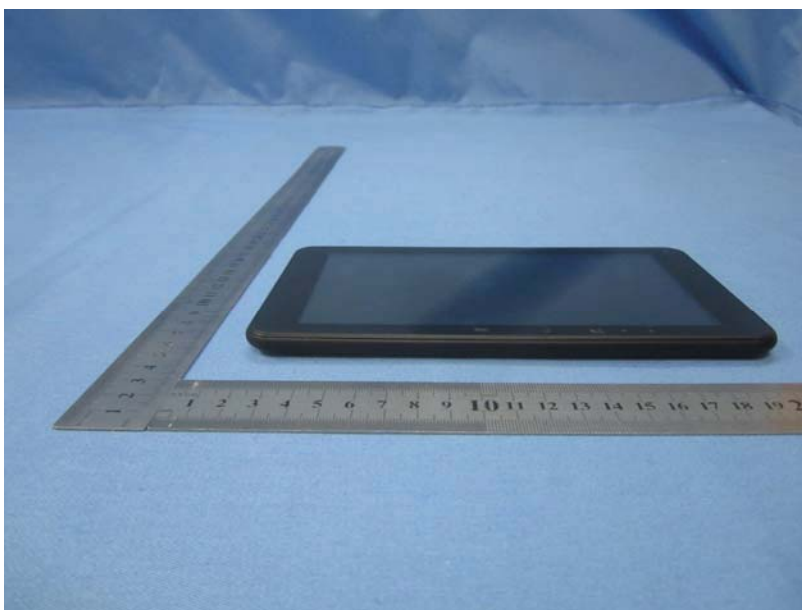
Radiated Emission

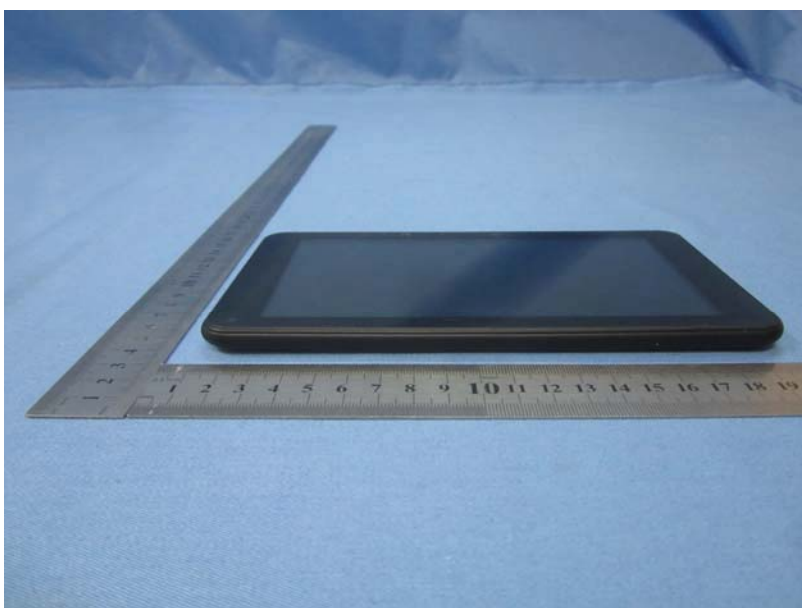
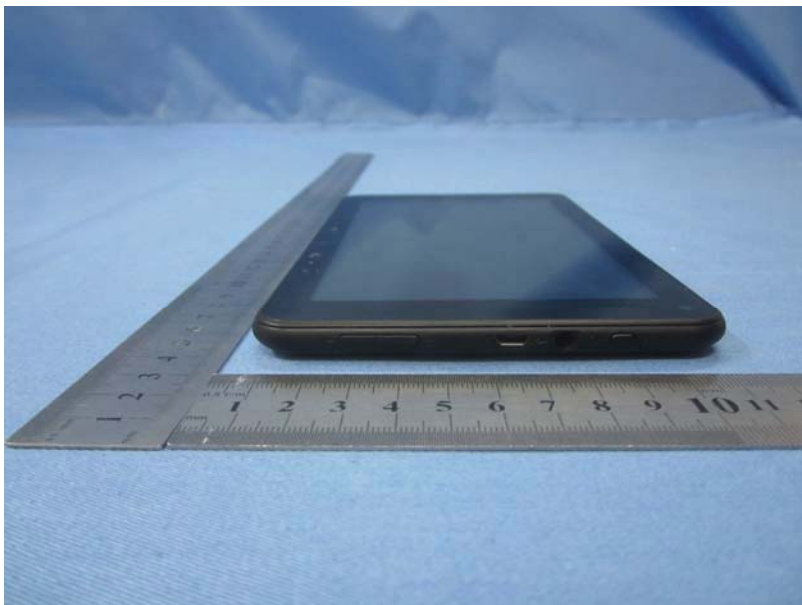


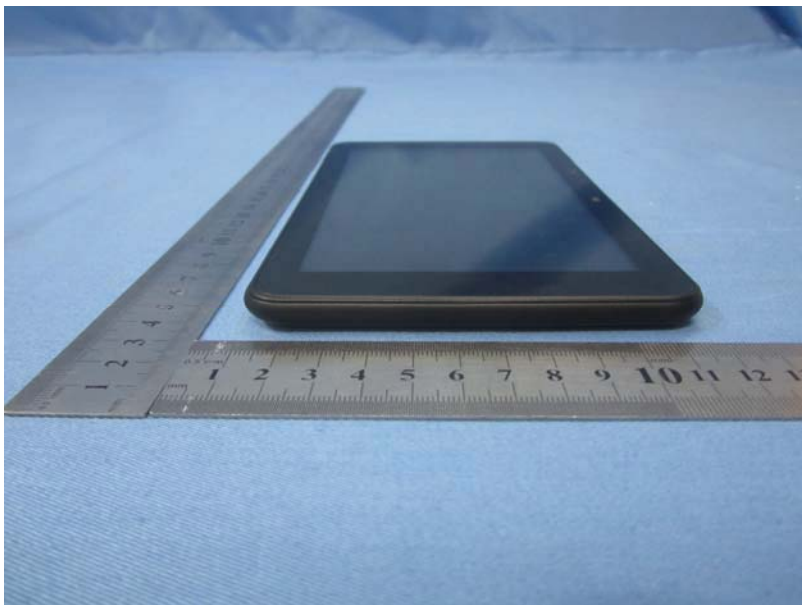
## Conducted Emission



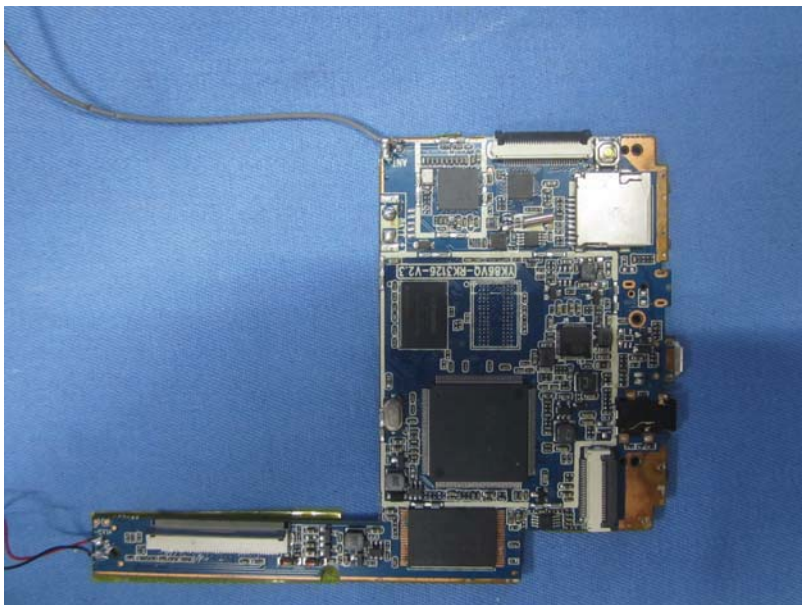
## 9 EUT Constructional Details

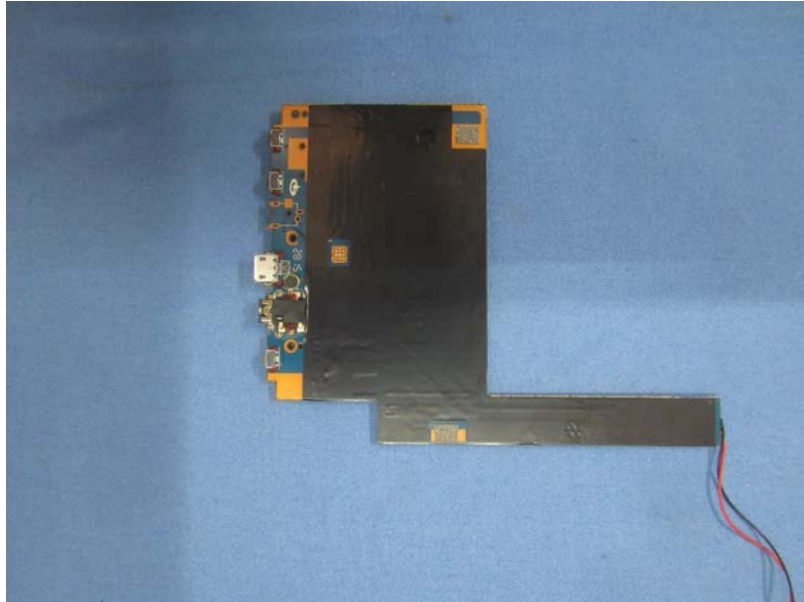


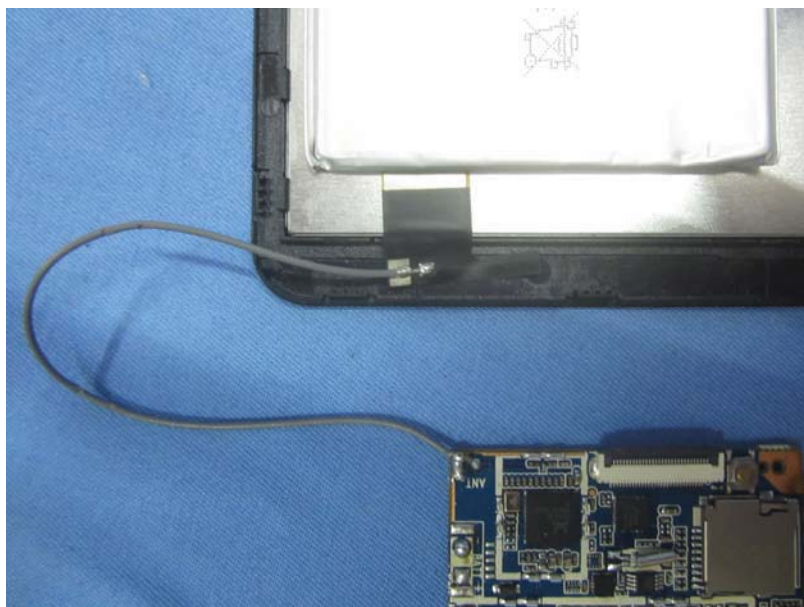














-----End-----