

# **FCC RADIO TEST REPORT**

## **FCC ID: 2A7DX-TAB60WIFI**

**Product :** Tablet PC

**Trade Mark :** Blackview

**Model Name :** Tab 60 WiFi

**Family Model :** Tab A6 Kids

**Report No. :** S24060401605004

### **Prepared for**

DOKE COMMUNICATION (HK) LIMITED  
19H MAXGRAND PLAZANO 3 TAI YAU STREETSAN PO KONG  
KL

### **Prepared by**

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TEST RESULT CERTIFICATION

Applicant's name : DOKE COMMUNICATION (HK) LIMITED.
Address : 19H MAXGRAND PLAZANO 3 TAI YAU STREETSAN PO KONG KL
Manufacturer's Name : Shenzhen DOKE Electronic Co., Ltd
Address : 801, Building3, 7th Industrial Zone, Yulv Community, Yutang Road, Guangming District, Shenzhen, China.

Product description

Product name : Tablet PC
Model and/or type reference : Tab 60 WiFi
Family Model : Tab A6 Kids
Sample number : S240604016005

Standards : FCC Part15.407

Test procedure : ANSI C63.10-2013 and KDB 789033 D02 General UNII Test Procedures New Rules v02r01

This device described above has been tested by NTEK, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements/ the Industry Canada requirements.. And it is applicable only to the tested sample identified in the report.

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Date of Test

Date (s) of performance of tests : Jun 05. 2024 ~ Jun 25. 2024

Date of Issue : Jun 26. 2024

Test Result : Pass

Prepared By : Joe Yan (Project Engineer)

Reviewed By : Aaron Cheng (Supervisor)

Approved By : Alex Li (Manager)

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Revision History

| Report No.      | Version | Description             | Issued Date  |
|-----------------|---------|-------------------------|--------------|
| S24060401605004 | Rev.01  | Initial issue of report | Jun 26. 2024 |
|                 |         |                         |              |
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|                 |         |                         |              |

## 1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

| FCC Part15 (15.407) , Subpart E              |   |          |        |
|--|---|----------|--------|
| Standard Section                             | Test Item                               | Judgment | Remark |
| 15.207                                       | AC Power Line Conducted Emissions       | PASS     |        |
| 15.209(a),<br>15.407 (b)(1)<br>15.407 (b)(4) | Spurious Radiated Emissions             | PASS     |        |
| 15.407 (a)(1)<br>15.407 (a)(3)               | 26 dB and 99% Emission Bandwidth        | PASS     |        |
| 15.407(e)                                    | Minimum 6 dB bandwidth                  | PASS     |        |
| 15.407 (a)(1)<br>15.407 (a)(3)               | Maximum Conducted Output Power          | PASS     |        |
| 15.407(b)(1)<br>15.407(b)(4)                 | Band Edge                               | PASS     |        |
| 15.407 (a)(1)<br>15.407 (a)(3)               | Power Spectral Density                  | PASS     |        |
| 15.407(b)                                    | Spurious Emissions at Antenna Terminals | PASS     |        |
| 15.203                                       | Antenna Requirement                     | PASS     |        |
| 15.407(c)                                    | Automatically discontinue transmission  | PASS     |        |
| 15.407(g)                                    | Frequency Stability Measurement         | PASS     |        |

**NOTE:**

(1) "N/A" denotes test is not applicable in this Test Report

(2) 11ax supports FULL RU Only.

## 1.1 FACILITIES AND ACCREDITATIONS

### FACILITIES

All measurement facilities used to collect the measurement data are located at 1/F, Building E, Fenda Science Park Sanwei, Xixiang, Bao'an District, Shenzhen, Guangdong, China.

The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.10 and CISPR Publication 22.

### LABORATORY ACCREDITATIONS AND LISTINGS

#### Site Description

CNAS-Lab. : The Certificate Registration Number is L5516.

IC-Registration : The Certificate Registration Number is 9270A.  
CAB identifier:CN0074

FCC- Accredited : Test Firm Registration Number: 463705.  
Designation Number: CN1184

A2LA-Lab. : The Certificate Registration Number is 4298.01  
This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 General requirements for the competence of testing and calibration laboratories.  
This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated 8 January 2009).

Name of Firm : Shenzhen NTEK Testing Technology Co., Ltd.

Site Location : 1/F, Building E, Fenda Science Park Sanwei, Xixiang, Bao'an District, Shenzhen, Guangdong, China.

## 1.2 MEASUREMENT UNCERTAINTY

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

| No. | Item                                | Uncertainty   |
|-----|-------------------------------------|---------------|
| 1   | Conducted Emission Test             | $\pm 2.80$ dB |
| 2   | RF power, conducted                 | $\pm 0.16$ dB |
| 3   | Spurious emissions, conducted       | $\pm 0.21$ dB |
| 4   | All emissions, radiated(30MHz~1GHz) | $\pm 2.64$ dB |
| 5   | All emissions, radiated(1GHz~6GHz)  | $\pm 2.40$ dB |
| 6   | All emissions, radiated( > 6GHz)    | $\pm 2.52$ dB |
| 7   | Temperature                         | $\pm 0.5$ °C  |
| 8   | Humidity                            | $\pm 2$ %     |
| 9   | All emissions, radiated(9KHz~30MHz) | $\pm 6$ dB    |
| 10  | Occupied bandwidth                  | $\pm 3.7$ dB  |

## 2. GENERAL INFORMATION

### 2.1 GENERAL DESCRIPTION OF EUT

|                        |  |  |  |
|------------------------|--|--|--|
| Equipment              | Tablet PC  |  |  |
| Trade Mark             | Blackview  |  |  |
| Model Name             | Tab 60 WiFi  |  |  |
| Family Model           | Tab A6 Kids  |  |  |
| Model Difference       | Except for the model name, all models have the same circuit and RF module.   |  |  |
| FCC ID                 | 2A7DX-TAB60WIFI  |  |  |
| Product Description    | IEEE 802.11 WLAN Mode Supported  | <input checked="" type="checkbox"/> 802.11a/n/ac/ax (20MHz channel bandwidth)<br><input checked="" type="checkbox"/> 802.11n/ac/ax (40MHz channel bandwidth)<br><input checked="" type="checkbox"/> 802.11ac/ax (80MHz channel bandwidth)  |  |
|                        | Data Rate  | 802.11a: 6,9,12,18,24,36,48,54Mbps;<br>802.11n(HT20/HT40):MCS0-MCS15;<br>802.11ac/ax(VHT20):MCS0-MCS8;<br>802.11ac/ax(VHT40/VHT80):MCS0-MCS9;  |  |
|                        | Modulation   | OFDM with BPSK/QPSK/16QAM/64QAM/256QAM for 802.11a/n/ac;<br>OFDMA with BPSK/QPSK/16QAM/64QAM/256QAM /1024QAMfor 802.11ax;  |  |
|                        | Operating Frequency Range  | <input checked="" type="checkbox"/> 5180-5240MHz for 802.11a/n(HT20)/ac(VHT20)/ax20;<br><input checked="" type="checkbox"/> 5190-5230MHz for 802.11n(HT40)/ac(VHT40)/ax40;<br><input checked="" type="checkbox"/> 5210MHz for 802.11ac(VHT80)/ax80<br><input checked="" type="checkbox"/> 5745-5825 MHz for 802.11a/n(HT20)/ac(VHT20)/ax20;<br><input checked="" type="checkbox"/> 5755-5795 MHz for 802.11n(HT40)/ac(VHT40)/ax40;<br><input checked="" type="checkbox"/> 5775MHz for 802.11ac(VHT80)/ax80   |  |
|                        | Number of Channels   | <input checked="" type="checkbox"/> 4 channels for 802.11a/n20/ac20/ax20 in the 5180-5240MHz band ;<br><input checked="" type="checkbox"/> 2 channels for 802.11 n40/ac40/ax40 in the 5190-5230MHz band ;<br><input checked="" type="checkbox"/> 1 channels for 802.11 ac80/ax80 in the 5210MHz band ;<br><input checked="" type="checkbox"/> 5 channels for 802.11a/n20/ac20/ax20 in the 5745-5825MHz band ;<br><input checked="" type="checkbox"/> 2 channels for 802.11 n40/ac40/ax40 in the 5755-5795MHz band ;<br><input checked="" type="checkbox"/> 1 channels for 802.11 ac80/ax80 in the 5775MHz band ; |  |
|                        | Antenna Type   | FPC antenna  |  |
|                        | Antenna Gain   | 1.3dBi   |  |
|                        | Based on the application, features, or specification exhibited in User's Manual, More details of EUT technical specification, please refer to the User's Manual. |  |  |
|                        | Adapter  | Model: QZ-01004AA00<br>Input: 100-240V~50/60Hz 0.3A<br>Output: 5.0V---2.0A(10.0W)  |  |
|                        | Battery  | DC 3.8V, 5100mAh, 19.38Wh  |  |
| Power supply           | DC 3.8V from Battery or DC 5V from USB Port  |  |  |
| Connecting I/O Port(s) | Please refer to the User's Manual  |  |  |
| Hardware version:      | BND-C863-D V1.0  |  |  |
| Firmware version:      | N/A  |  |  |
| Software version:      | Tab_60_WiFi_NEU_C863-D_V1.1  |  |  |

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.
2. Frequency and Channel list for 802.11a/n/ac/ax(20MHz) band I (5180-5240MHz):

| 802.11a/n/ac( 20MHz)/ax20 Carrier Frequency Channel |                 |         |                 |         |                 |         |                 |
|---|-----------------|---------|-----------------|---------|-----------------|---------|-----------------|
| Channel   | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) |
| 36  | 5180            | 44      | 5220            | -       | -               | -       | -               |
| 40  | 5200            | 48      | 5240            | -       | -               | -       | -               |

Frequency and Channel list for 802.11n/ac(40MHz)/ax40 band I (5190-5230MHz):

| 802.11n/ac/ax(40MHz) Carrier Frequency Channel |                 |         |                 |         |                 |         |                 |
|--|-----------------|---------|-----------------|---------|-----------------|---------|-----------------|
| Channel  | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) |
| 38   | 5190            | -       | -               | -       | -               | -       | -               |
| 46   | 5230            | -       | -               | -       | -               | -       | -               |

Frequency and Channel list for 802.11ac(80MHz)/ax80 band I (5210MHz):

| 802.11ac/ax(80MHz) Carrier Frequency Channel |                 |         |                 |         |                 |         |                 |
|--|-----------------|---------|-----------------|---------|-----------------|---------|-----------------|
| Channel                                      | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) |
| 42   | 5210            | -       | -               | -       | -               | -       | -               |

Frequency and Channel list for 802.11a/n/ac(20 MHz)/ax20 band IV (5745-5825MHz):

| 802.11a/n/ac/ax( 20 MHz) Carrier Frequency Channel |                 |         |                 |         |                 |         |                 |
|--|-----------------|---------|-----------------|---------|-----------------|---------|-----------------|
| Channel  | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) |
| 149  | 5745            | 153     | 5765            | 157     | 5785            | 161     | 5805            |
| 165  | 5825            | -       | -               | -       | -               | -       | -               |

Frequency and Channel list for 802.11n/ac(40MHz)/ax40 band IV (5755-5795MHz):

| 802.11n/ac/ax(40MHz) Carrier Frequency Channel |                 |         |                 |         |                 |
|--|-----------------|---------|-----------------|---------|-----------------|
| Channel  | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) |
| 151  | 5755            | 159     | 5795            | -       | -               |

Frequency and Channel list for 802.11ac(80MHz)/ax80 band IV (5775MHz):

| 802.11ac/ax(80MHz) Carrier Frequency Channel |                 |         |                 |         |                 |
|--|-----------------|---------|-----------------|---------|-----------------|
| Channel                                      | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) |
| 155  | 5775            | -       | -               | -       | -               |



## 2.2 DESCRIPTION OF TEST MODES

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

| Pretest Mode | Description   |
|--------------|---|
| Mode 1       | Normal Link Mode  |
| Mode 2       | 802.11a / n 20 / ac 20/ax20 CH36/ CH40/ CH 48<br>802.11a / n 20 / ac 20/ax20 CH149/ CH157/ CH 165 |
| Mode 3       | 802.11n40 / ac40/ax40 CH38/ CH 46<br>802.11n 40 / ac 40/ax40 CH 151 / CH 159                      |
| Mode 4       | 802.11ac80/ax80 CH 42<br>802.11ac 80/ax80 CH 155  |

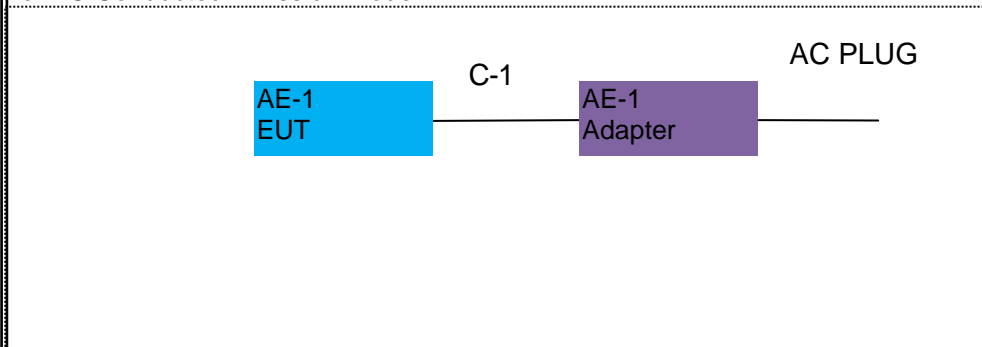
| For Radiated Emission |   |
|-----------------------|---|
| Final Test Mode       | Description   |
| Mode 1                | Normal Link Mode  |
| Mode 2                | 802.11a / n 20 / ac 20/ax20 CH36/ CH40/ CH 48<br>802.11a / n 20 / ac 20/ax20 CH149/ CH157/ CH 165 |
| Mode 3                | 802.11n40 / ac40/ax40 CH38/ CH 46<br>802.11n 40 / ac 40/ax40 CH 151 / CH 159                      |
| Mode 4                | 802.11ac80/ax80 CH 42<br>802.11ac 80/ax80 CH 155  |

Note:

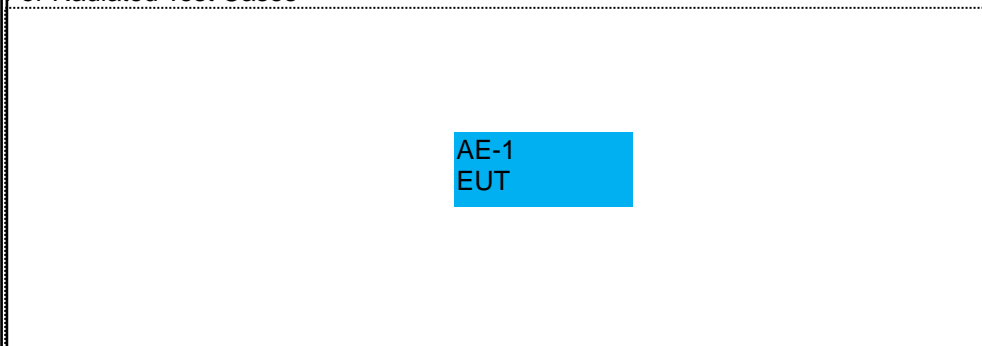
- (1) The measurements are performed at the highest, middle, lowest available channels.
- (2) The measurements are performed at all Bit Rate of Transmitter, the worst data was reported

### 2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

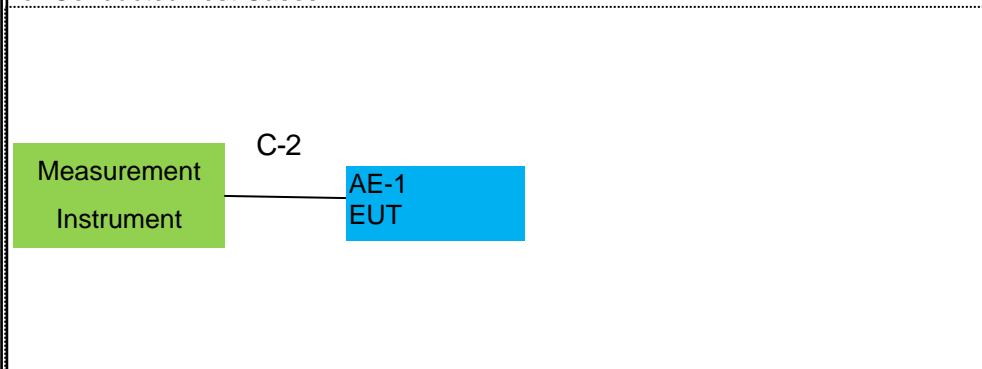
For AC Conducted Emission Mode



For Radiated Test Cases



For Conducted Test Cases



Note:1.The temporary antenna connector is soldered on the PCB board in order to perform conducted tests and this temporary antenna connector is listed in the equipment list.

## 2.4 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)

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

| Item | Equipment | Model/Type No. | Series No. | Note        |
|------|-----------|----------------|------------|-------------|
| AE-1 | Tablet PC | Tab 60 WiFi    | N/A        | EUT         |
| AE-2 | Adapter   | QZ-01004AA00   | N/A        | Peripherals |
|      |           |                |            |             |
|      |           |                |            |             |
|      |           |                |            |             |
|      |           |                |            |             |
|      |           |                |            |             |

| Item | Cable Type | Shielded Type | Ferrite Core | Length |
|------|------------|---------------|--------------|--------|
| C-1  | USB Cable  | YES           | NO           | 0.8m   |
| C-2  | RF Cable   | YES           | NO           | 0.1m   |
|      |            |               |              |        |
|      |            |               |              |        |
|      |            |               |              |        |
|      |            |               |              |        |

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in 『Length』 column.

## 2.5 EQUIPMENTS LIST FOR ALL TEST ITEMS

### Radiation& Conducted Test equipment

| Item | Kind of Equipment                  | Manufacturer | Type No.    | Serial No.    | Last calibration | Calibrated until | Calibration period |
|------|------------------------------------|--------------|-------------|---------------|------------------|------------------|--------------------|
| 1    | Spectrum Analyzer                  | Agilent      | E4407B      | MY45108040    | 2024.03.12       | 2025.03.11       | 1 year             |
| 2    | Spectrum Analyzer                  | Agilent      | N9020A      | MY49100060    | 2024.04.26       | 2025.04.25       | 1 year             |
| 3    | Spectrum Analyzer                  | R&S          | FSV40       | 101417        | 2024.03.12       | 2025.03.11       | 1 year             |
| 4    | Test Receiver                      | R&S          | ESPI7       | 101318        | 2024.03.12       | 2025.03.11       | 1 year             |
| 5    | Bilog Antenna                      | TESEQ        | CBL6111D    | 31216         | 2024.03.11       | 2025.03.10       | 1 year             |
| 6    | 50Ω Coaxial Switch                 | Anritsu      | MP59B       | 6200983705    | 2023.05.06       | 2026.05.05       | 3 year             |
| 7    | Horn Antenna                       | EM           | EM-AH-10180 | 2011071402    | 2024.03.12       | 2025.03.11       | 1 year             |
| 8    | Broadband Horn Antenna             | SCHWARZBECK  | BBHA 9170   | 803           | 2024.05.12       | 2027.05.11       | 3 year             |
| 9    | Amplifier                          | EMC          | EMC051835SE | 980246        | 2024.01.23       | 2025.01.22       | 1 year             |
| 10   | Active Loop Antenna                | SCHWARZBECK  | FMZB 1519B  | 055           | 2023.11.03       | 2026.11.02       | 3 year             |
| 11   | Power Meter                        | DARE         | RPR3006W    | 15100041SN084 | 2024.04.25       | 2025.04.24       | 1 year             |
| 12   | Test Cable (9KHz-30MHz)            | N/A          | R-01        | N/A           | 2023.05.06       | 2026.05.05       | 3 year             |
| 13   | Test Cable (30MHz-1GHz)            | N/A          | R-02        | N/A           | 2023.05.06       | 2026.05.05       | 3 year             |
| 14   | High Test Cable(1G-40GHz)          | N/A          | R-03        | N/A           | 2022.06.17       | 2025.06.16       | 3 year             |
| 15   | Filter                             | TRILTHIC     | 2400MHz     | 29            | 2024.04.26       | 2027.04.25       | 3 year             |
| 16   | temporary antenna connector (Note) | NTS          | R001        | N/A           | N/A              | N/A              | N/A                |

Note:

We will use the temporary antenna connector (soldered on the PCB board) When conducted test  
 And this temporary antenna connector is listed within the instrument list

AC Conduction Test equipment

| Item | Kind of Equipment       | Manufacturer | Type No.  | Serial No. | Last calibration | Calibrated until | Calibration period |
|------|-------------------------|--------------|-----------|------------|------------------|------------------|--------------------|
| 1    | Test Receiver           | R&S          | ESCI      | 101160     | 2024.03.12       | 2025.03.11       | 1 year             |
| 2    | LISN                    | R&S          | ENV216    | 101313     | 2024.03.12       | 2025.03.11       | 1 year             |
| 3    | LISN                    | SCHWARZBECK  | NNLK 8129 | 8129245    | 2024.03.12       | 2025.03.11       | 1 year             |
| 4    | 50Ω Coaxial Switch      | ANRITSU CORP | MP59B     | 6200983704 | 2023.05.06       | 2026.05.05       | 3 year             |
| 5    | Test Cable (9KHz-30MHz) | N/A          | C01       | N/A        | 2023.05.06       | 2026.05.05       | 3 year             |
| 6    | Test Cable (9KHz-30MHz) | N/A          | C02       | N/A        | 2023.05.06       | 2026.05.05       | 3 year             |
| 7    | Test Cable (9KHz-30MHz) | N/A          | C03       | N/A        | 2023.05.06       | 2026.05.05       | 3 year             |

Note: Each piece of equipment is scheduled for calibration once a year except the Test Cable& Aux Equipment which is scheduled for calibration every 3 years.

### 3. TEST REQUIREMENTS

#### 3.1 CONDUCTED EMISSION MEASUREMENT

##### 3.1.1 APPLICABLE STANDARD

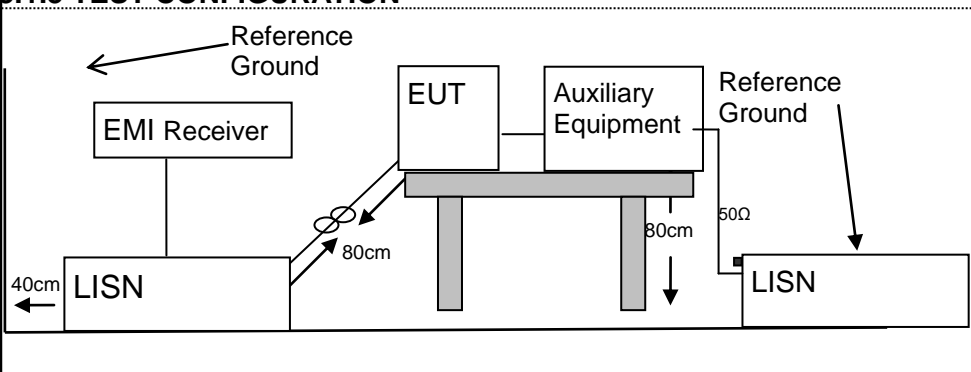
According to FCC Part 15.207(a)

##### 3.1.2 CONFORMANCE LIMIT

| Frequency(MHz) | Conducted Emission Limit |         |
|----------------|--------------------------|---------|
|                | Quasi-peak               | Average |
| 0.15-0.5       | 66-56*                   | 56-46*  |
| 0.5-5.0        | 56                       | 46      |
| 5.0-30.0       | 60                       | 50      |

Note: 1. \*Decreases with the logarithm of the frequency  
 2. The lower limit shall apply at the transition frequencies  
 3. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

##### 3.1.3 TEST CONFIGURATION



##### 3.1.4 TEST PROCEDURE

According to the requirements in Section 13.1.4.1 of ANSI C63.10-2013 Conducted emissions the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-Peak and average detector mode.

1. The EUT was placed 0.4 meter from the conducting wall of the shielding room.
2. The EUT was placed on a table which is 0.8m above ground plane.
3. Connect EUT to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
4. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40cm long.
5. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
6. LISN at least 80 cm from nearest part of EUT chassis.
7. The frequency range from 150KHz to 30MHz was searched.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth(IF bandwidth=9KHz) with Maximum Hold Mode
9. For the actual test configuration, please refer to the related Item –EUT Test Photos.

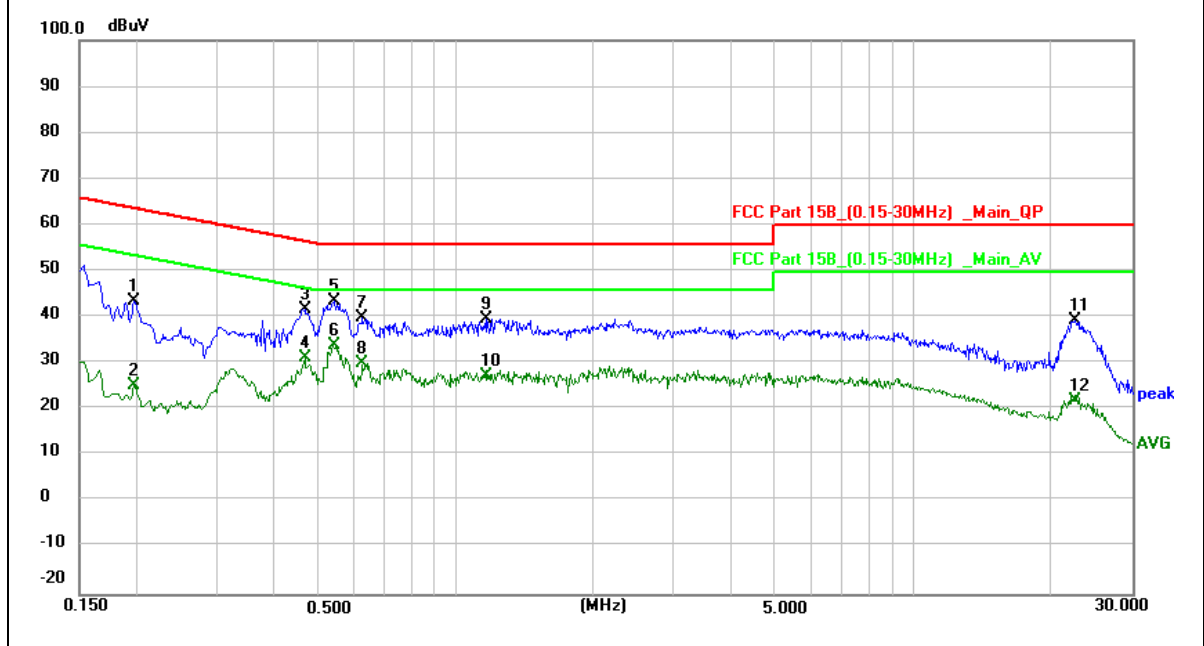
### 3.1.5 TEST RESULTS

|                |                                 |                     |             |
|----------------|---------------------------------|---------------------|-------------|
| EUT :          | Tablet PC                       | Model Name :        | Tab 60 WiFi |
| Temperature :  | 22°C                            | Relative Humidity : | 57%         |
| Pressure :     | 1010hPa                         | Phase :             | L           |
| Test Voltage : | DC 5V from Adapter AC 120V/60Hz | Test Mode :         | Mode 1      |

| Frequency (MHz) | Reading Level (dBμV) | Correct Factor (dB) | Measure-ment (dBμV) | Limits (dBμV) | Margin (dB) | Remark |
|-----------------|----------------------|---------------------|---------------------|---------------|-------------|--------|
| 0.1980          | 33.66                | 10.03               | 43.69               | 63.69         | -20.00      | QP     |
| 0.1980          | 15.35                | 10.03               | 25.38               | 53.69         | -28.31      | AVG    |
| 0.4661          | 31.19                | 10.59               | 41.78               | 56.58         | -14.80      | QP     |
| 0.4661          | 20.81                | 10.59               | 31.40               | 46.58         | -15.18      | AVG    |
| 0.5420          | 32.81                | 10.73               | 43.54               | 56.00         | -12.46      | QP     |
| 0.5420          | 23.27                | 10.73               | 34.00               | 46.00         | -12.00      | AVG    |
| 0.6260          | 28.95                | 10.91               | 39.86               | 56.00         | -16.14      | QP     |
| 0.6260          | 19.18                | 10.91               | 30.09               | 46.00         | -15.91      | AVG    |
| 1.1700          | 27.66                | 12.00               | 39.66               | 56.00         | -16.34      | QP     |
| 1.1700          | 15.50                | 12.00               | 27.50               | 46.00         | -18.50      | AVG    |
| 22.6220         | 29.74                | 9.68                | 39.42               | 60.00         | -20.58      | QP     |
| 22.6220         | 12.33                | 9.68                | 22.01               | 50.00         | -27.99      | AVG    |

Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.

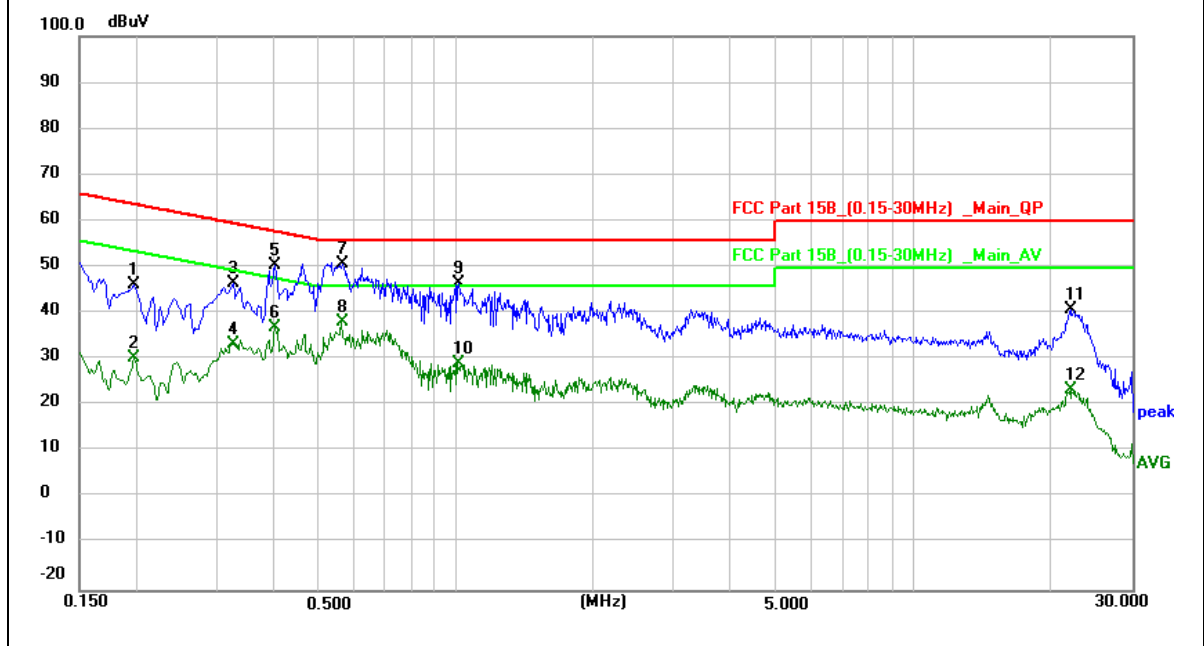


|                |                                 |                     |             |
|----------------|---------------------------------|---------------------|-------------|
| EUT :          | Tablet PC                       | Model Name :        | Tab 60 WiFi |
| Temperature :  | 22°C                            | Relative Humidity : | 57%         |
| Pressure :     | 1010hPa                         | Phase :             | N           |
| Test Voltage : | DC 5V from Adapter AC 120V/60Hz | Test Mode :         | Mode 1      |

| Frequency (MHz) | Reading Level (dBμV) | Correct Factor (dB) | Measure-ment (dBμV) | Limits (dBμV) | Margin (dB) | Remark |
|-----------------|----------------------|---------------------|---------------------|---------------|-------------|--------|
| 0.1980          | 36.23                | 10.03               | 46.26               | 63.69         | -17.43      | QP     |
| 0.1980          | 20.44                | 10.03               | 30.47               | 53.69         | -23.22      | AVG    |
| 0.3260          | 36.35                | 10.30               | 46.65               | 59.55         | -12.90      | QP     |
| 0.3260          | 23.13                | 10.30               | 33.43               | 49.55         | -16.12      | AVG    |
| 0.4020          | 39.98                | 10.45               | 50.43               | 57.81         | -7.38       | QP     |
| 0.4020          | 26.52                | 10.45               | 36.97               | 47.81         | -10.84      | AVG    |
| 0.5660          | 39.87                | 10.79               | 50.66               | 56.00         | -5.34       | QP     |
| 0.5660          | 27.28                | 10.79               | 38.07               | 46.00         | -7.93       | AVG    |
| 1.0140          | 34.87                | 11.68               | 46.55               | 56.00         | -9.45       | QP     |
| 1.0140          | 17.59                | 11.68               | 29.27               | 46.00         | -16.73      | AVG    |
| 22.0980         | 31.23                | 9.69                | 40.92               | 60.00         | -19.08      | QP     |
| 22.0980         | 13.79                | 9.69                | 23.48               | 50.00         | -26.52      | AVG    |

Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.





### 3.2 RADIATED EMISSION MEASUREMENT

#### 3.2.1 APPLICABLE STANDARD

According to FCC Part 15.407(b) and 15.209

#### 3.2.2 CONFORMANCE LIMIT

According to FCC Part 15.407(b)(7): radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).  
According to FCC Part 15.205, Restricted bands

| MHz               | MHz                 | MHz           | GHz         |
|-------------------|---------------------|---------------|-------------|
| 0.090-0.110       | 16.42-16.423        | 399.9-410     | 4.5-5.15    |
| 0.495-0.505       | 16.69475-16.69525   | 608-614       | 5.35-5.46   |
| 2.1735-2.1905     | 16.80425-16.80475   | 960-1240      | 7.25-7.75   |
| 4.125-4.128       | 25.5-25.67          | 1300-1427     | 8.025-8.5   |
| 4.17725-4.17775   | 37.5-38.25          | 1435-1626.5   | 9.0-9.2     |
| 4.20725-4.20775   | 73-74.6             | 1645.5-1646.5 | 9.3-9.5     |
| 6.215-6.218       | 74.8-75.2           | 1660-1710     | 10.6-12.7   |
| 6.26775-6.26825   | 123-138             | 2200-2300     | 14.47-14.5  |
| 8.291-8.294       | 149.9-150.05        | 2310-2390     | 15.35-16.2  |
| 8.362-8.366       | 156.52475-156.52525 | 2483.5-2500   | 17.7-21.4   |
| 8.37625-8.38675   | 156.7-156.9         | 2690-2900     | 22.01-23.12 |
| 8.41425-8.41475   | 162.0125-167.17     | 3260-3267     | 23.6-24.0   |
| 12.29-12.293      | 167.72-173.2        | 3332-3339     | 31.2-31.8   |
| 12.51975-12.52025 | 240-285             | 3345.8-3358   | 36.43-36.5  |
| 12.57675-12.57725 | 322-335.4           | 3600-4400     | (2)         |
| 13.36-13.41       |                     |               |             |

In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

| Restricted Frequency(MHz) | Field Strength ( $\mu\text{V}/\text{m}$ ) | Field Strength ( $\text{dB}\mu\text{V}/\text{m}$ ) | Measurement Distance |
|---------------------------|---|--|----------------------|
| 0.009~0.490               | 2400/F(KHz)                               | 20 log ( $\mu\text{V}/\text{m}$ )                  | 300                  |
| 0.490~1.705               | 24000/F(KHz)                              | 20 log ( $\mu\text{V}/\text{m}$ )                  | 30                   |
| 1.705~30.0                | 30  | 29.5   | 30                   |
| 30-88                     | 100                                       | 40   | 3                    |
| 88-216                    | 150                                       | 43.5   | 3                    |
| 216-960                   | 200                                       | 46   | 3                    |
| Above 960                 | 500                                       | 54   | 3                    |

Limits of Radiated Emission Measurement(Above 1000MHz)

| Frequency(MHz) | Class B ( $\text{dB}\mu\text{V}/\text{m}$ ) (at 3M) |         |
|----------------|---|---------|
|                | PEAK  | AVERAGE |
| Above 1000     | 74  | 54      |

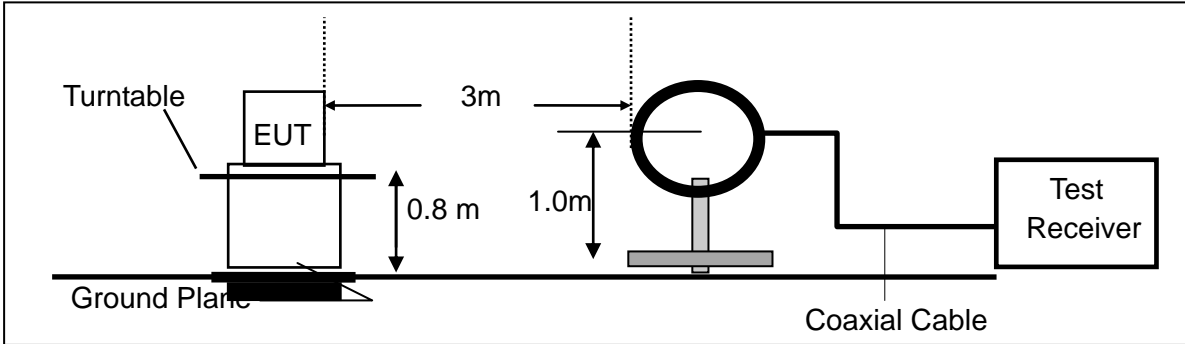
- Remark : 1. Emission level in  $\text{dB}\mu\text{V}/\text{m}=20 \log (\mu\text{V}/\text{m})$   
 2. Measurement was performed at an antenna to the closed point of EUT distance of meters.  
 3. For Frequency 9kHz~30MHz:  
 Distance extrapolation factor =  $40 \log (\text{Specific distance}/ \text{test distance})(\text{dB})$ ;  
 Limit line=Specific limits( $\text{dB}\mu\text{V}$ ) + distance extrapolation factor.  
 For Frequency above 30MHz:  
 Distance extrapolation factor =  $20 \log (\text{Specific distance}/ \text{test distance})(\text{dB})$ ;  
 Limit line=Specific limits( $\text{dB}\mu\text{V}$ ) + distance extrapolation factor.

#### 3.2.3 MEASURING INSTRUMENTS

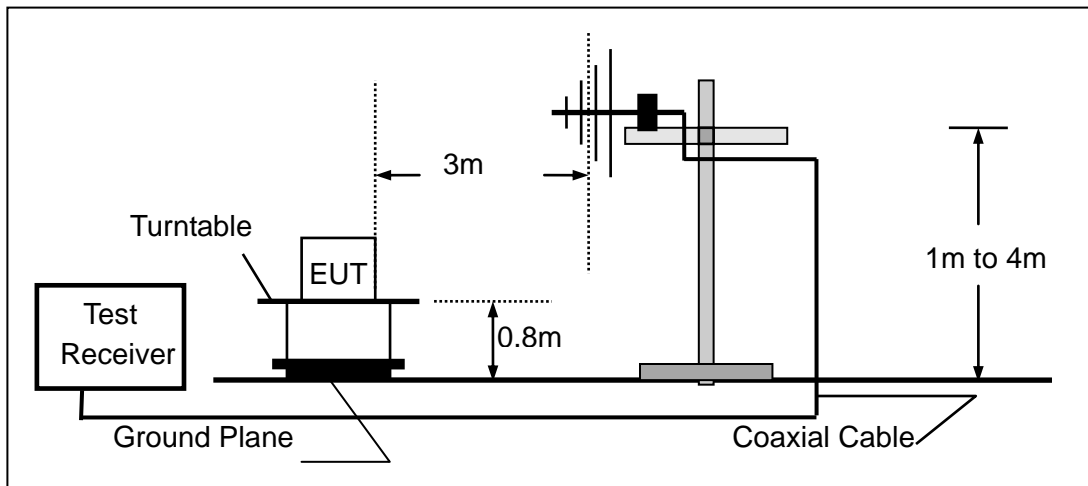
The Measuring equipment is listed in the section 6.3 of this test report.

### 3.2.4 TEST CONFIGURATION

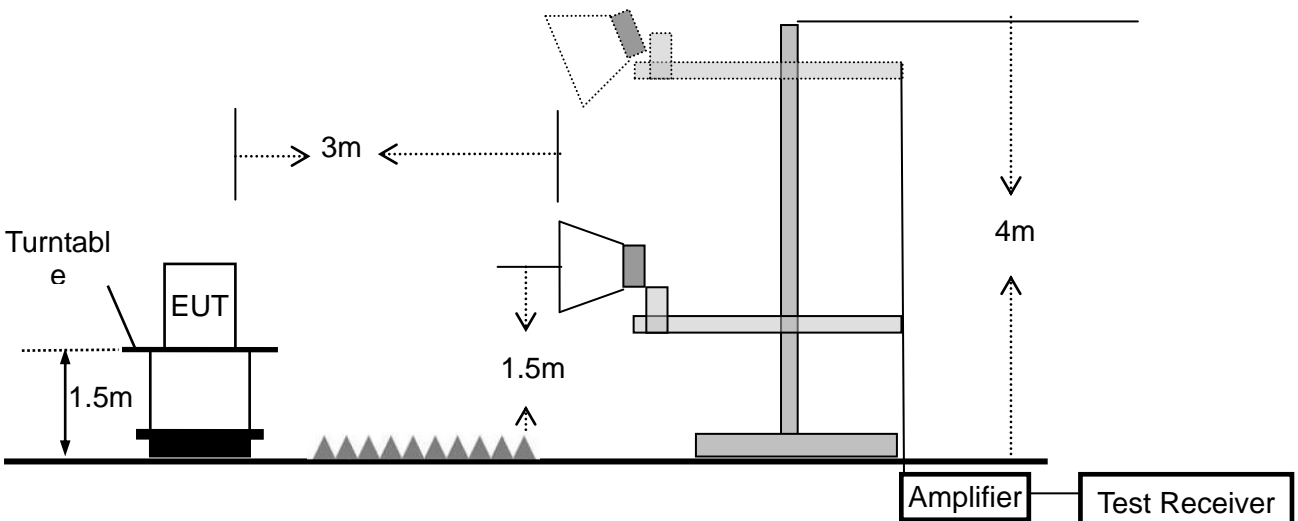
(a) For radiated emissions below 30MHz



(b) For radiated emissions from 30MHz to 1000MHz



(c) For radiated emissions above 1000MHz



### 3.2.5 TEST PROCEDURE

The test site semi-anechoic chamber has met the requirement of NSA tolerance 4 dB according to the standards: ANSI C63.10-2013. The test distance is 3m. The setup is according to the requirements in Section 13.1.4.1 of ANSI C63.10-2013 and CAN/CSA-CEI/IEC CISPR 22.

This test is required for any spurious emission that falls in a Restricted Band, as defined in Section 15.205. It must be performed with the highest gain of each type of antenna proposed for use with the EUT.

Use the following spectrum analyzer settings:

| Spectrum Parameter                    | Setting  |
|---------------------------------------|--|
| Attenuation                           | Auto   |
| Start Frequency                       | 1000 MHz   |
| Stop Frequency                        | 10th carrier harmonic                            |
| RB / VB (emission in restricted band) | 1 MHz / 1 MHz for Peak, 1 MHz / 1MHz for Average |

| Receiver Parameter     | Setting                          |
|------------------------|----------------------------------|
| Attenuation            | Auto                             |
| Start ~ Stop Frequency | 9kHz~150kHz / RB 200Hz for QP    |
| Start ~ Stop Frequency | 150kHz~30MHz / RB 9kHz for QP    |
| Start ~ Stop Frequency | 30MHz~1000MHz / RB 120kHz for QP |

- The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- The EUT was placed on the top of a rotating table 0.8 m for below 1GHz and 1.5m for above 1GHz the ground at a 3 meter. The table was rotated 360 degrees to determine the position of the highest radiation.
- The height of the equipment or of the substitution antenna shall be 0.8 m for below 1GHz and 1.5m for above 1GHz; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

Note:

Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

During the radiated emission test, the Spectrum Analyzer was set with the following configurations:

| Frequency Band (MHz) | Function | Resolution bandwidth | Video Bandwidth |
|----------------------|----------|----------------------|-----------------|
| 30 to 1000           | QP       | 120 kHz              | 300 kHz         |
| Above 1000           | Peak     | 1 MHz                | 1 MHz           |
|                      | Average  | 1 MHz                | 1 MHz           |

Note: for the frequency ranges below 30 MHz, a narrower RBW is used for these ranges but the measured value should add a RBW correction factor (RBWCF) where  $RBWCF [dB] = 10 \cdot \lg(100 [kHz] / \text{narrower RBW [kHz]})$ . , the narrower RBW is 1 kHz and RBWCF is 20 dB for the frequency 9 kHz to 150 kHz, and the narrower RBW is 10 kHz and RBWCF is 10 dB for the frequency 150 kHz to 30 MHz.

### 3.2.6 TEST RESULTS (9KHz – 30 MHz)

|              |           |                    |             |
|--------------|-----------|--------------------|-------------|
| EUT:         | Tablet PC | Model Name. :      | Tab 60 WiFi |
| Temperature: | 20 °C     | Relative Humidity: | 48%         |
| Pressure:    | 1010 hPa  | Test Voltage :     | DC 3.8V     |
| Test Mode :  | TX        | Polarization :     | --          |

| Freq. | Reading  | Limit    | Margin | State |
|-------|----------|----------|--------|-------|
| (MHz) | (dBuV/m) | (dBuV/m) | (dB)   | P/F   |
| --    | --       | --       | --     | N/A   |
| --    | --       | --       | --     | N/A   |

**NOTE:**

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

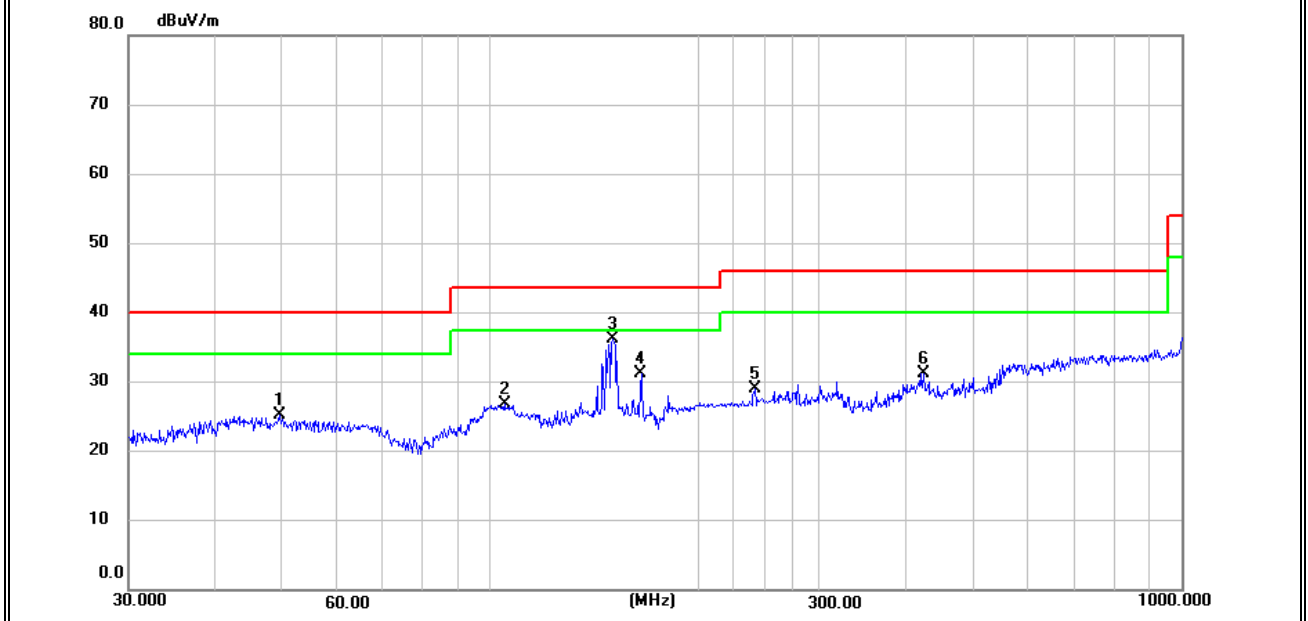
### 3.2.7 TEST RESULTS (30MHz – 1GHz)

|               |             |                     |             |
|---------------|-------------|---------------------|-------------|
| EUT :         | Tablet PC   | Model Name. :       | Tab 60 WiFi |
| Temperature : | 25°C        | Relative Humidity : | 55%         |
| Pressure :    | 1010 hPa    | Test Voltage :      | DC 3.8V     |
| Test Mode :   | TX- 802.11a |                     |             |

| Polar (H/V) | Frequency | Meter Reading | Factor | Emission Level | Limits   | Margin | Remark |
|-------------|-----------|---------------|--------|----------------|----------|--------|--------|
|             | (MHz)     | (dBuV)        | (dB)   | (dBuV/m)       | (dBuV/m) | (dB)   |        |
| V           | 49.7066   | 4.76          | 20.47  | 25.23          | 40.00    | -14.77 | QP     |
| V           | 104.9031  | 7.59          | 19.17  | 26.76          | 43.50    | -16.74 | QP     |
| V           | 150.5377  | 20.85         | 15.28  | 36.13          | 43.50    | -7.37  | QP     |
| V           | 165.4866  | 15.52         | 15.61  | 31.13          | 43.50    | -12.37 | QP     |
| V           | 241.6762  | 10.03         | 19.04  | 29.07          | 46.00    | -16.93 | QP     |
| V           | 423.5402  | 8.61          | 22.61  | 31.22          | 46.00    | -14.78 | QP     |

**Remark:**

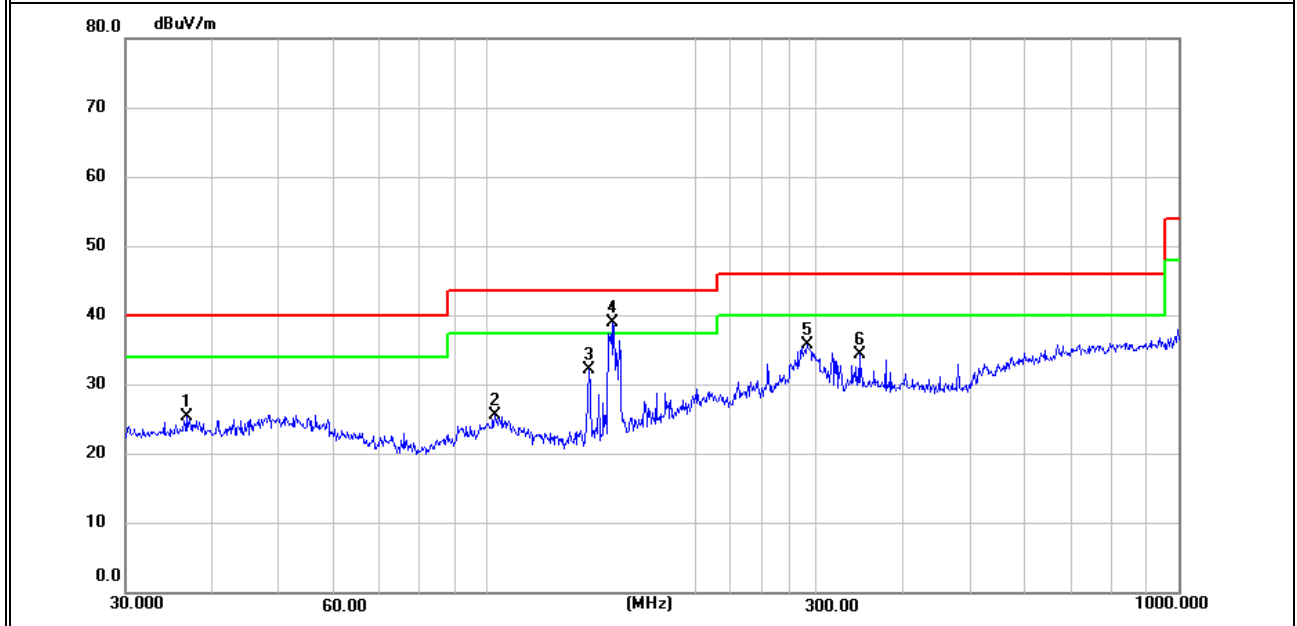
Emission Level = Meter Reading + Factor, Margin= Emission Level - Limit



| Polar (H/V) | Frequency | Meter Reading | Factor | Emission Level | Limits   | Margin | Remark |
|-------------|-----------|---------------|--------|----------------|----------|--------|--------|
|             | (MHz)     | (dBuV)        | (dB)   | (dBuV/m)       | (dBuV/m) | (dB)   |        |
| H           | 36.7661   | 6.52          | 18.90  | 25.42          | 40.00    | -14.58 | QP     |
| H           | 102.7192  | 6.53          | 19.04  | 25.57          | 43.50    | -17.93 | QP     |
| H           | 140.3420  | 17.62         | 14.65  | 32.27          | 43.50    | -11.23 | QP     |
| H           | 151.5971  | 23.74         | 15.28  | 39.02          | 43.50    | -4.48  | QP     |
| H           | 290.0172  | 15.75         | 20.02  | 35.77          | 46.00    | -10.23 | QP     |
| H           | 345.5951  | 13.20         | 21.13  | 34.33          | 46.00    | -11.67 | QP     |

**Remark:**

Emission Level = Meter Reading + Factor, Margin= Emission Level - Limit



Note(1)“802.11a” mode is the worst mode.

(2)Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report

### 3.2.8 TEST RESULTS (1GHz-18GHz)

|               |                           |                     |             |
|---------------|---------------------------|---------------------|-------------|
| EUT :         | Tablet PC                 | Model Name. :       | Tab 60 WiFi |
| Temperature : | 20 °C                     | Relative Humidity : | 48%         |
| Pressure :    | 1010 hPa                  | Test Voltage :      | DC 3.8V     |
| Test Mode :   | TX - 802.11a_5180~5240MHz |                     |             |

| Polar                              | Frequency | Meter Reading | Cable loss | Antenna Factor | Preamp Factor | Emission Level | Limits   | Margin | Detector Type |
|------------------------------------|-----------|---------------|------------|----------------|---------------|----------------|----------|--------|---------------|
| (H/V)                              | (MHz)     | (dBuV)        | (dB)       | dB/m           | (dB)          | (dBuV/m)       | (dBuV/m) | (dB)   |               |
| Low Channel (5180 MHz)-Above 1G    |           |               |            |                |               |                |          |        |               |
| Vertical                           | 3694.56   | 63.30         | 5.94       | 35.40          | 44.00         | 60.64          | 74.00    | -13.36 | Pk            |
| Vertical                           | 3694.56   | 47.51         | 5.94       | 35.40          | 44.00         | 44.85          | 54.00    | -9.15  | AV            |
| Vertical                           | 10360.41  | 60.79         | 8.46       | 39.75          | 44.50         | 64.50          | 68.20    | -3.70  | Pk            |
| Vertical                           | 15540.28  | 63.21         | 10.12      | 38.80          | 44.10         | 68.03          | 74.00    | -5.97  | Pk            |
| Vertical                           | 15540.28  | 40.66         | 10.12      | 38.80          | 42.70         | 46.88          | 54.00    | -7.12  | AV            |
| Horizontal                         | 3713.31   | 65.58         | 5.94       | 35.18          | 44.00         | 62.70          | 74.00    | -11.30 | Pk            |
| Horizontal                         | 3713.31   | 46.05         | 5.94       | 35.18          | 44.00         | 43.17          | 54.00    | -10.83 | AV            |
| Horizontal                         | 10360.74  | 60.12         | 8.46       | 38.71          | 44.50         | 62.79          | 68.20    | -5.41  | Pk            |
| Horizontal                         | 15540.52  | 59.64         | 10.12      | 38.38          | 44.10         | 64.04          | 74.00    | -9.96  | Pk            |
| Horizontal                         | 15540.52  | 43.28         | 10.12      | 38.38          | 44.10         | 47.68          | 54.00    | -6.32  | AV            |
| middle Channel (5200 MHz)-Above 1G |           |               |            |                |               |                |          |        |               |
| Vertical                           | 3624.54   | 61.04         | 6.48       | 36.35          | 44.05         | 59.82          | 74.00    | -14.18 | Pk            |
| Vertical                           | 3624.54   | 44.15         | 6.48       | 36.35          | 44.05         | 42.93          | 54.00    | -11.07 | AV            |
| Vertical                           | 10400.51  | 61.09         | 8.47       | 37.88          | 44.51         | 62.93          | 68.20    | -5.27  | Pk            |
| Vertical                           | 15600.68  | 61.82         | 10.12      | 38.80          | 44.10         | 66.64          | 74.00    | -7.36  | Pk            |
| Vertical                           | 15600.68  | 40.84         | 10.12      | 38.80          | 42.70         | 47.06          | 54.00    | -6.94  | AV            |
| Horizontal                         | 4202.42   | 61.22         | 6.48       | 36.37          | 44.05         | 60.02          | 74.00    | -13.98 | Pk            |
| Horizontal                         | 4202.42   | 47.11         | 6.48       | 36.37          | 44.05         | 45.91          | 54.00    | -8.09  | AV            |
| Horizontal                         | 10400.61  | 62.21         | 8.47       | 38.64          | 44.50         | 64.82          | 68.20    | -3.38  | Pk            |
| Horizontal                         | 15601.09  | 61.12         | 10.12      | 38.38          | 44.10         | 65.52          | 74.00    | -8.48  | Pk            |
| Horizontal                         | 15601.09  | 43.68         | 10.12      | 38.38          | 44.10         | 48.08          | 54.00    | -5.92  | AV            |
| High Channel (5240 MHz)-Above 1G   |           |               |            |                |               |                |          |        |               |
| Vertical                           | 4598.23   | 66.54         | 7.10       | 37.24          | 43.50         | 67.38          | 74.00    | -6.62  | Pk            |
| Vertical                           | 4598.23   | 46.17         | 7.10       | 37.24          | 43.50         | 47.01          | 54.00    | -6.99  | AV            |
| Vertical                           | 10480.68  | 61.59         | 8.46       | 37.68          | 44.50         | 63.23          | 68.20    | -4.97  | Pk            |
| Vertical                           | 15720.65  | 64.19         | 10.12      | 38.80          | 44.10         | 69.01          | 74.00    | -4.99  | Pk            |
| Vertical                           | 15720.65  | 41.54         | 10.12      | 38.80          | 42.70         | 47.76          | 54.00    | -6.24  | AV            |
| Horizontal                         | 4589.64   | 63.47         | 7.10       | 37.24          | 43.50         | 64.31          | 74.00    | -9.69  | Pk            |
| Horizontal                         | 4589.64   | 43.83         | 7.10       | 37.24          | 43.50         | 44.67          | 54.00    | -9.33  | AV            |
| Horizontal                         | 10481.48  | 64.81         | 8.46       | 38.57          | 44.50         | 67.34          | 68.20    | -0.86  | Pk            |
| Horizontal                         | 15720.71  | 61.25         | 10.12      | 38.38          | 44.10         | 65.65          | 74.00    | -8.35  | Pk            |
| Horizontal                         | 15720.71  | 45.19         | 10.12      | 38.38          | 44.10         | 49.59          | 54.00    | -4.41  | AV            |

Note: "802.11a" mode is the worst mode.  
 The amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported. Emission level (dBuV/m) = 20 log Emission level (uV/m).  
 Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

|               |                           |                     |             |
|---------------|---------------------------|---------------------|-------------|
| EUT :         | Tablet PC                 | Model Name. :       | Tab 60 WiFi |
| Temperature : | 20 °C                     | Relative Humidity : | 48%         |
| Pressure :    | 1010 hPa                  | Test Voltage :      | DC 3.8V     |
| Test Mode :   | TX - 802.11a_5745-5825MHz |                     |             |

| Polar                              | Frequency | Meter Reading | Cable loss | Antenna Factor | Preamp Factor | Emission Level | Limits   | Margin | Detector Type |
|------------------------------------|-----------|---------------|------------|----------------|---------------|----------------|----------|--------|---------------|
| (H/V)                              | (MHz)     | (dBuV)        | (dB)       | dB/m           | (dB)          | (dBuV/m)       | (dBuV/m) | (dB)   |               |
| Low Channel (5745 MHz)-Above 1G    |           |               |            |                |               |                |          |        |               |
| Vertical                           | 5122.51   | 65.05         | 5.94       | 35.40          | 44.00         | 62.39          | 74.00    | -11.61 | Pk            |
| Vertical                           | 5123.51   | 47.83         | 5.94       | 35.40          | 44.00         | 45.17          | 54.00    | -8.83  | AV            |
| Vertical                           | 11490.68  | 61.68         | 8.46       | 39.75          | 44.50         | 65.39          | 74.00    | -8.61  | Pk            |
| Vertical                           | 11490.68  | 45.05         | 8.46       | 39.75          | 44.50         | 48.76          | 54.00    | -5.24  | Pk            |
| Vertical                           | 17235.54  | 53.59         | 10.12      | 38.80          | 44.10         | 58.41          | 68.20    | -9.79  | AV            |
| Horizontal                         | 5167.13   | 61.56         | 5.94       | 35.18          | 44.00         | 58.68          | 74.00    | -15.32 | Pk            |
| Horizontal                         | 5167.13   | 43.44         | 5.94       | 35.18          | 44.00         | 40.56          | 54.00    | -13.44 | AV            |
| Horizontal                         | 11490.76  | 60.95         | 8.46       | 38.71          | 44.50         | 63.62          | 74.00    | -10.38 | Pk            |
| Horizontal                         | 11490.76  | 44.71         | 8.46       | 38.71          | 44.50         | 47.38          | 54.00    | -6.62  | Pk            |
| Horizontal                         | 17235.87  | 52.04         | 10.12      | 38.38          | 44.10         | 56.44          | 68.20    | -11.76 | AV            |
| middle Channel (5785 MHz)-Above 1G |           |               |            |                |               |                |          |        |               |
| Vertical                           | 5433.74   | 65.14         | 6.48       | 36.35          | 44.05         | 63.92          | 74.00    | -10.08 | Pk            |
| Vertical                           | 5433.74   | 45.61         | 6.48       | 36.35          | 44.05         | 42.05          | 54.00    | -11.95 | AV            |
| Vertical                           | 11570.66  | 61.47         | 8.47       | 37.88          | 44.51         | 62.63          | 74.00    | -11.37 | Pk            |
| Vertical                           | 11570.66  | 45.45         | 8.47       | 37.88          | 44.51         | 45.27          | 54.00    | -8.73  | Pk            |
| Vertical                           | 17356.37  | 58.61         | 10.12      | 38.80          | 44.10         | 61.06          | 68.20    | -7.14  | AV            |
| Horizontal                         | 4867.55   | 61.48         | 6.48       | 36.37          | 44.05         | 59.00          | 74.00    | -15.00 | Pk            |
| Horizontal                         | 4867.55   | 44.34         | 6.48       | 36.37          | 44.05         | 41.86          | 54.00    | -12.14 | AV            |
| Horizontal                         | 11570.53  | 63.99         | 8.47       | 38.64          | 44.50         | 65.66          | 74.00    | -8.34  | Pk            |
| Horizontal                         | 11570.53  | 46.18         | 8.47       | 38.64          | 44.50         | 47.04          | 54.00    | -6.96  | Pk            |
| Horizontal                         | 17355.54  | 58.32         | 10.12      | 38.38          | 44.10         | 61.20          | 68.20    | -7.00  | AV            |
| High Channel (5825 MHz)-Above 1G   |           |               |            |                |               |                |          |        |               |
| Vertical                           | 5243.17   | 63.36         | 7.10       | 37.24          | 43.50         | 64.20          | 74.00    | -9.80  | Pk            |
| Vertical                           | 5243.17   | 42.81         | 7.10       | 37.24          | 43.50         | 43.65          | 54.00    | -10.35 | AV            |
| Vertical                           | 11651.62  | 63.64         | 8.46       | 37.68          | 44.50         | 65.28          | 74.00    | -8.72  | Pk            |
| Vertical                           | 11651.62  | 44.24         | 8.46       | 37.68          | 44.50         | 45.88          | 54.00    | -8.12  | Pk            |
| Vertical                           | 17472.75  | 63.08         | 10.12      | 38.80          | 44.10         | 67.90          | 68.20    | -0.30  | AV            |
| Horizontal                         | 5284.23   | 62.50         | 7.10       | 37.24          | 43.50         | 63.34          | 74.00    | -10.66 | Pk            |
| Horizontal                         | 5284.23   | 44.32         | 7.10       | 37.24          | 43.50         | 45.16          | 54.00    | -8.84  | AV            |
| Horizontal                         | 11651.61  | 61.48         | 8.46       | 38.57          | 44.50         | 64.01          | 74.00    | -9.99  | Pk            |
| Horizontal                         | 11651.61  | 46.58         | 8.46       | 38.57          | 44.50         | 49.11          | 54.00    | -4.89  | Pk            |
| Horizontal                         | 17474.45  | 59.98         | 10.12      | 38.38          | 44.10         | 64.38          | 68.20    | -3.82  | AV            |

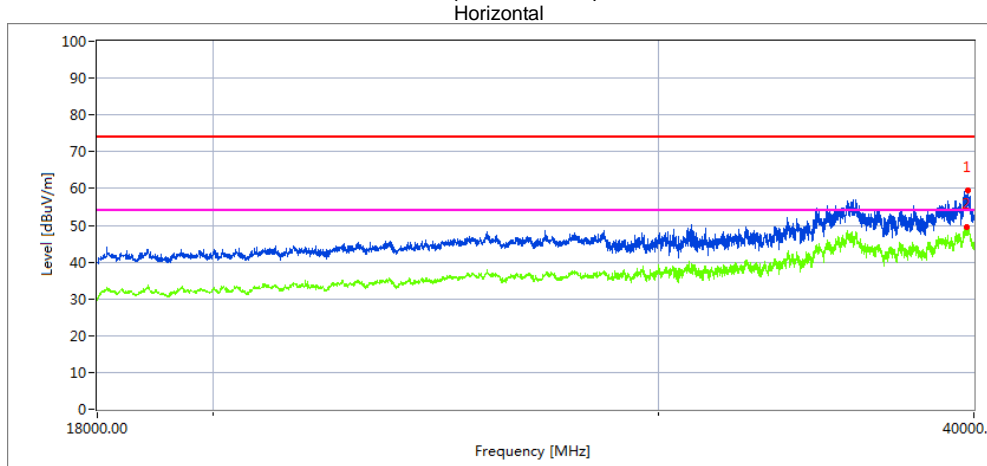
Note: "802.11a" mode is the worst mode.  
 The amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported. Emission level (dBuV/m) = 20 log Emission level (uV/m).  
 Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.



### 3.2.9 TEST RESULTS (18GHz-40GHz)

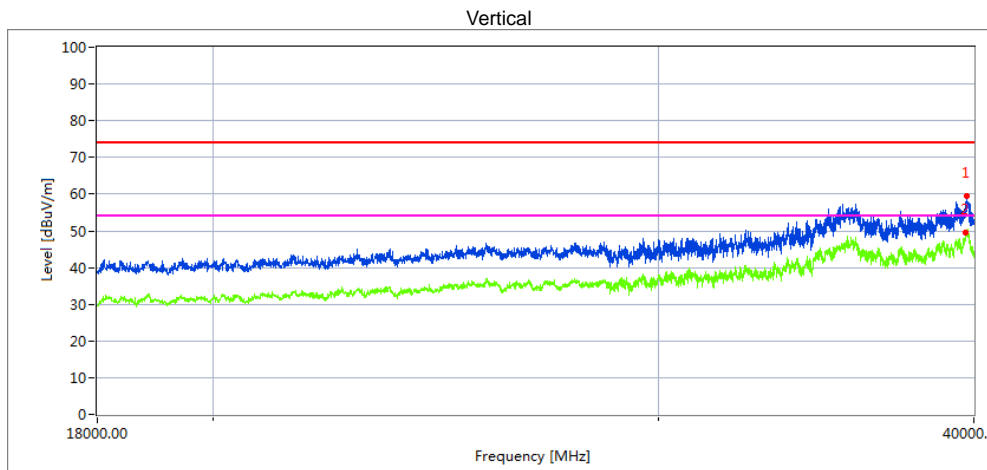
|               |                                     |                     |             |
|---------------|-------------------------------------|---------------------|-------------|
| EUT :         | Tablet PC                           | Model Name. :       | Tab 60 WiFi |
| Temperature : | 20 °C                               | Relative Humidity : | 48%         |
| Pressure :    | 1010 hPa                            | Test Voltage :      | DC 3.8V     |
| Test Mode :   | TX (5.2G)-802.11a;TX (5.8G)-802.11a |                     |             |

All the modulation modes have been tested, and the worst result was report as below:  
 Low Channel (5180 MHz)-Above 1G



#### Measurement Result:

| Frequency MHz | Meter Reading dBuV | Cable loss dB | Antenna Factor dB/m | Preamp Factor dB | Emission Level dBuV/m | Limits dBuV/m | Margin dB | Detector Type |
|---------------|--------------------|---------------|---------------------|------------------|-----------------------|---------------|-----------|---------------|
| 39768.522     | 39.78              | 20.09         | 44.07               | 43.48            | 60.46                 | 68.2          | 7.74      | Peak          |
| 39768.522     | 28.64              | 20.09         | 44.04               | 43.48            | 49.29                 | 54            | 4.71      | AVG           |

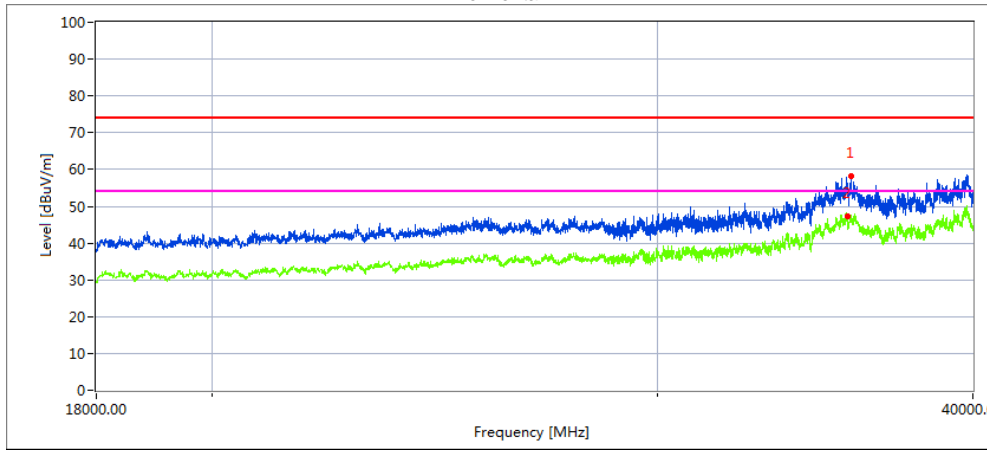


#### Measurement Result:

| Frequency MHz | Meter Reading dBuV | Cable loss dB | Antenna Factor dB/m | Preamp Factor dB | Emission Level dBuV/m | Limits dBuV/m | Margin dB | Detector Type |
|---------------|--------------------|---------------|---------------------|------------------|-----------------------|---------------|-----------|---------------|
| 39769.346     | 30.91              | 20.09         | 44.07               | 43.48            | 51.59                 | 56.05         | 4.46      | Peak          |
| 39769.346     | 28.97              | 20.09         | 44.04               | 43.48            | 49.62                 | 54            | 4.38      | AVG           |

### High Channel (5240 MHz)-Above 1G

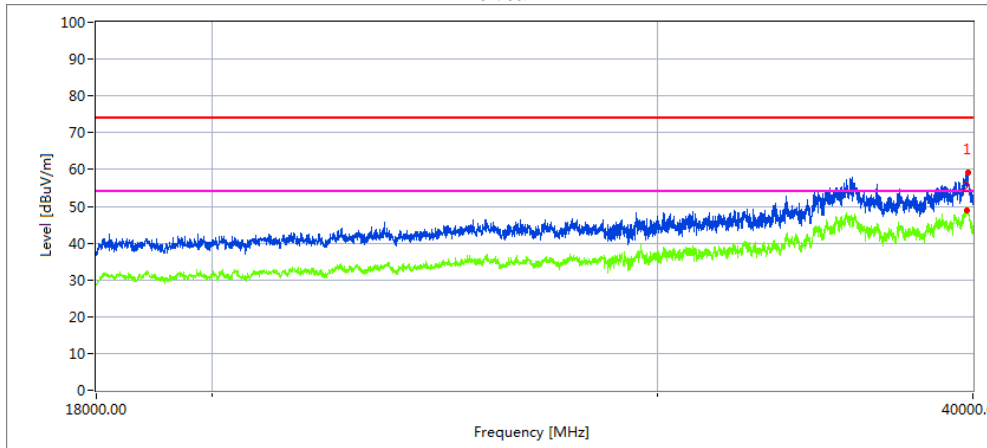
Horizontal



**Measurement Result:**

| Frequency MHz | Meter Reading dBuV | Cable loss dB | Antenna Factor dB/m | Preamp Factor dB | Emission Level dBuV/m | Limits dBuV/m | Margin dB | Detector Type |
|---------------|--------------------|---------------|---------------------|------------------|-----------------------|---------------|-----------|---------------|
| 35627.761     | 42.16              | 19.11         | 42.73               | 44.61            | 59.39                 | 68.2          | 8.81      | Peak          |
| 35627.761     | 33.52              | 19.11         | 42.73               | 44.61            | 50.75                 | 54            | 3.25      | AVG           |

Vertical

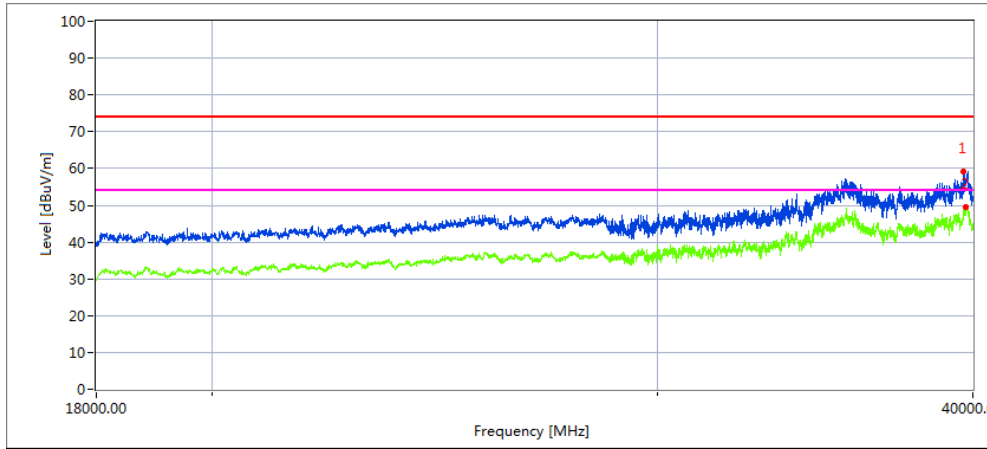


**Measurement Result:**

| Frequency MHz | Meter Reading dBuV | Cable loss dB | Antenna Factor dB/m | Preamp Factor dB | Emission Level dBuV/m | Limits dBuV/m | Margin dB | Detector Type |
|---------------|--------------------|---------------|---------------------|------------------|-----------------------|---------------|-----------|---------------|
| 39769.156     | 38.92              | 20.09         | 44.07               | 43.48            | 59.6                  | 68.2          | 8.6       | Peak          |
| 39769.156     | 27.55              | 20.09         | 44.04               | 43.48            | 48.2                  | 54            | 5.8       | AVG           |

Low Channel (5745 MHz)-Above 1G

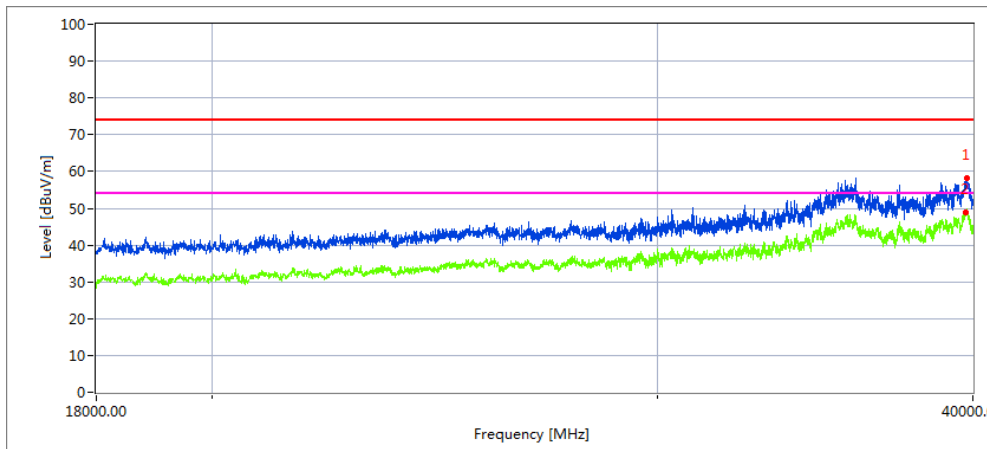
Horizontal



Measurement Result:

| Frequency MHz | Meter Reading dBuV | Cable loss dB | Antenna Factor dB/m | Preamp Factor dB | Emission Level dBuV/m | Limits dBuV/m | Margin dB | Detector Type |
|---------------|--------------------|---------------|---------------------|------------------|-----------------------|---------------|-----------|---------------|
| 39669.841     | 39.47              | 20.09         | 44.16               | 43.48            | 60.24                 | 68.2          | 7.96      | Peak          |
| 39669.841     | 31.16              | 20.09         | 44.16               | 43.48            | 51.93                 | 54            | 2.07      | AVG           |

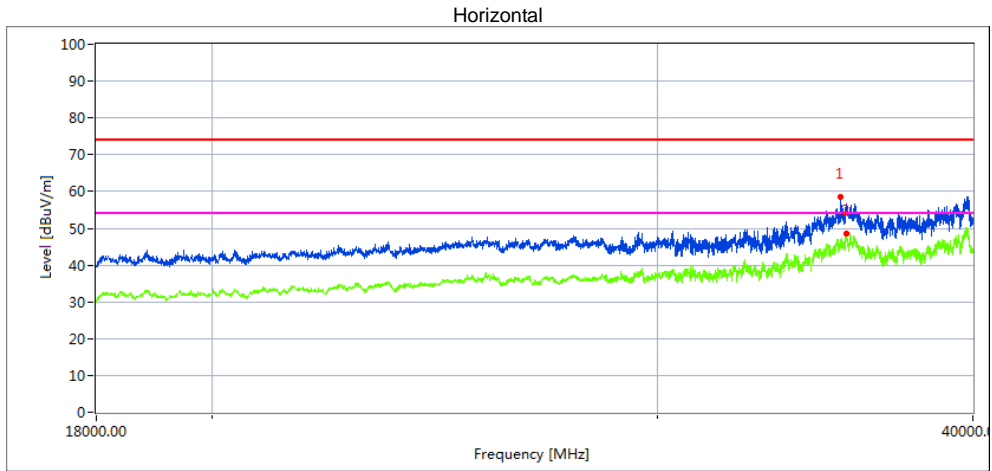
Vertical



Measurement Result:

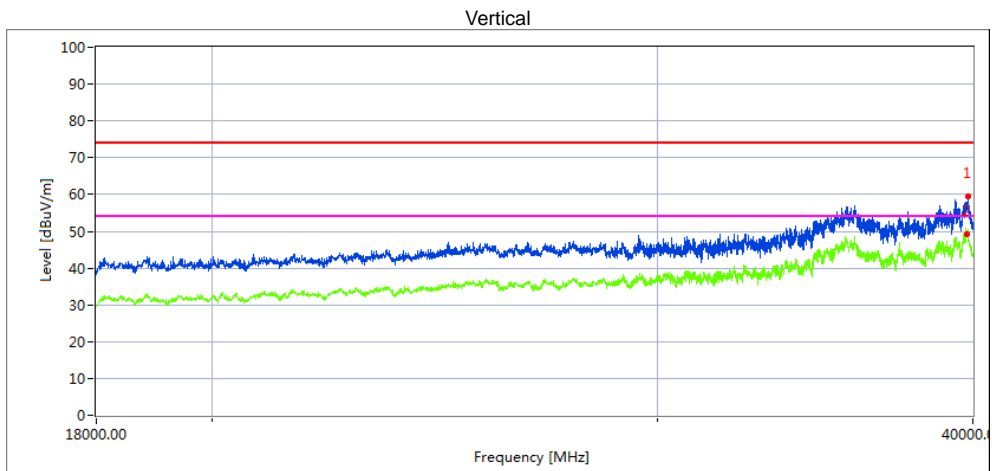
| Frequency MHz | Meter Reading dBuV | Cable loss dB | Antenna Factor dB/m | Preamp Factor dB | Emission Level dBuV/m | Limits dBuV/m | Margin dB | Detector Type |
|---------------|--------------------|---------------|---------------------|------------------|-----------------------|---------------|-----------|---------------|
| 39731.253     | 40.64              | 20.06         | 44.07               | 43.21            | 61.56                 | 68.2          | 6.64      | Peak          |
| 39731.253     | 30.2               | 20.06         | 44.07               | 43.21            | 51.12                 | 54            | 2.88      | AVG           |

### High Channel (5825 MHz)-Above 1G



**Measurement Result:**

| Frequency MHz | Meter Reading dBuV | Cable loss dB | Antenna Factor dB/m | Preamp Factor dB | Emission Level dBuV/m | Limits dBuV/m | Margin dB | Detector Type |
|---------------|--------------------|---------------|---------------------|------------------|-----------------------|---------------|-----------|---------------|
| 35628.265     | 40.67              | 19.11         | 42.63               | 43.48            | 58.93                 | 68.2          | 9.27      | Peak          |
| 35628.265     | 32.22              | 19.12         | 42.63               | 43.48            | 50.49                 | 54            | 3.51      | AVG           |



**Measurement Result:**

| Frequency MHz | Meter Reading dBuV | Cable loss dB | Antenna Factor dB/m | Preamp Factor dB | Emission Level dBuV/m | Limits dBuV/m | Margin dB | Detector Type |
|---------------|--------------------|---------------|---------------------|------------------|-----------------------|---------------|-----------|---------------|
| 39821.416     | 38.63              | 20.1          | 44.1                | 43.22            | 59.61                 | 68.2          | 8.59      | Peak          |
| 39821.416     | 30.39              | 20.1          | 44.1                | 43.22            | 51.37                 | 54            | 2.63      | AVG           |

3.2.10 Spurious Emission in Restricted Band 4.5GHz~5.150 GHz& 5.350GHz~5460GHz

|               |             |                     |             |
|---------------|-------------|---------------------|-------------|
| EUT :         | Tablet PC   | Model Name. :       | Tab 60 WiFi |
| Temperature : | 20 °C       | Relative Humidity : | 48%         |
| Pressure :    | 1010 hPa    | Test Voltage :      | DC 3.8V     |
| Test Mode :   | TX -802.11a |                     |             |

All the modulation modes have been tested, The report just record the worst data mode.

| Frequency              | Meter Reading | Cable Loss | Antenna Factor | Preamp Factor | Emission Level | Limits   | Margin | Detector | Comment    |
|------------------------|---------------|------------|----------------|---------------|----------------|----------|--------|----------|------------|
| (MHz)                  | (dBμV)        | (dB)       | dB/m           | (dB)          | (dBμV/m)       | (dBμV/m) | (dB)   | Type     |            |
| 5.2G WIFI-802.11a Mode |               |            |                |               |                |          |        |          |            |
| 4500                   | 57.93         | 5.2        | 35.6           | 44.2          | 54.53          | 74       | -19.47 | Pk       | Horizontal |
| 4500                   | 49.22         | 5.2        | 35.6           | 44.2          | 45.82          | 54       | -8.18  | AV       | Horizontal |
| 4500                   | 60.65         | 5.2        | 35.6           | 44.2          | 57.25          | 74       | -16.75 | Pk       | Vertical   |
| 4500                   | 48.09         | 5.2        | 35.6           | 44.2          | 44.69          | 54       | -9.31  | AV       | Vertical   |
| 5150                   | 72.64         | 5.36       | 35.66          | 44.22         | 69.44          | 74       | -4.56  | Pk       | Horizontal |
| 5150                   | 51.77         | 5.36       | 35.66          | 44.22         | 48.57          | 54       | -5.43  | AV       | Horizontal |
| 5150                   | 58.38         | 5.36       | 35.66          | 44.22         | 55.18          | 74       | -18.82 | Pk       | Vertical   |
| 5150                   | 39.48         | 5.36       | 35.66          | 44.22         | 36.28          | 54       | -17.72 | AV       | Vertical   |
| 5350                   | 67.12         | 5.68       | 35.68          | 44.22         | 64.26          | 74       | -9.74  | Pk       | Vertical   |
| 5350                   | 49.45         | 5.68       | 35.68          | 44.22         | 46.59          | 54       | -7.41  | AV       | Vertical   |
| 5350                   | 62.53         | 5.68       | 35.68          | 44.22         | 59.67          | 74       | -14.33 | Pk       | Horizontal |
| 5350                   | 47.57         | 5.68       | 35.68          | 44.22         | 44.71          | 54       | -9.29  | AV       | Horizontal |

Note: (1) Emission Level= Antenna Factor + Cable Loss + Read Level - Preamp Factor

(2) "802.11a " mode is the worst mode. When PK value is lower than the Average value limit, average don't record.

### 3.3 POWER SPECTRAL DENSITY TEST

#### 3.3.1 Applied procedures / limit

##### According to FCC §15.407(a)(3)

For the band 5.15-5.25 GHz,

(i) For an outdoor access point operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).

(ii) For an indoor access point operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

(iii) For fixed point-to-point access points operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. Fixed point-to-point U-NII devices may employ antennas with directional gain up to 23 dBi without any corresponding reduction in the maximum conducted output power or maximum power spectral density. For fixed point-to-point transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum conducted output power and maximum power spectral density is required for each 1 dB of antenna gain in excess of 23 dBi. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

(iv) For client devices in the 5.15-5.25 GHz band, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For the band 5.725-5.85 GHz

(3) For the band 5.725-5.85 GHz, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

,

### 3.3.2 TEST PROCEDURE

For devices operating in the bands 5.15-5.25 GHz, 5.25-5.35 GHz, and 5.47-5.725 GHz, the above procedures make use of 1 MHz RBW to satisfy directly the 1 MHz reference bandwidth specified in § 15.407(a)(5). For devices operating in the band 5.725-5.85 GHz, the rules specify a measurement bandwidth of 500 kHz. Many spectrum analyzers do not have 500 kHz RBW, thus a narrower RBW may need to be used. The rules permit the use of a RBWs less than 1 MHz, or 500 kHz, “provided that the measured power is integrated over the full reference bandwidth” to show the total power over the specified measurement bandwidth (i.e., 1 MHz, or 500 kHz). If measurements are performed using a reduced resolution bandwidth (< 1 MHz, or < 500 kHz) and integrated over 1 MHz, or 500 KHz bandwidth, the following adjustments to the procedures apply:

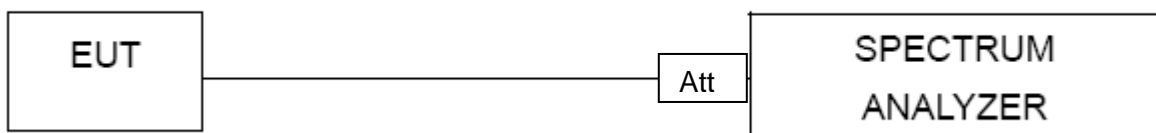
- a) Set  $RBW \geq 1/T$ , where T is defined in section II.B.I.a).
- b) Set  $VBW \geq 3 RBW$ .
- c) If measurement bandwidth of Maximum PSD is specified in 500 kHz, add  $10\log(500\text{kHz}/RBW)$  to the measured result, whereas  $RBW (< 500 \text{ KHz})$  is the reduced resolution bandwidth of the spectrum analyzer set during measurement.
- d) If measurement bandwidth of Maximum PSD is specified in 1 MHz, add  $10\log(1\text{MHz}/RBW)$  to the measured result, whereas  $RBW (< 1 \text{ MHz})$  is the reduced resolution bandwidth of spectrum analyzer set during measurement.
- e) Care must be taken to ensure that the measurements are performed during a period of continuous transmission or are corrected upward for duty cycle.

Note: As a practical matter, it is recommended to use reduced RBW of 100 KHz for the sections 5.c) and 5.d) above, since  $RBW=100 \text{ KHz}$  is available on nearly all spectrum analyzers.

### 3.3.3 DEVIATION FROM STANDARD

No deviation.

### 3.3.4 TEST SETUP



### 3.3.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.1 Unless otherwise a special operating condition is specified in the follows during the testing.

**3.3.6 TEST RESULTS**

|               |  |                     |             |
|---------------|--|---------------------|-------------|
| EUT :         | Tablet PC  | Model Name. :       | Tab 60 WiFi |
| Temperature : | 25 °C  | Relative Humidity : | 56%         |
| Pressure :    | 1015 hPa   | Test Voltage :      | DC 3.8V     |
| Test Mode :   | TX Frequency Band I (5150-5250MHz), Band IV (5725-5850MHz) |                     |             |

Test data reference attachment.



### 3.4 26DB & 99% EMISSION BANDWIDTH

#### 3.4.1 Applied procedures / limit

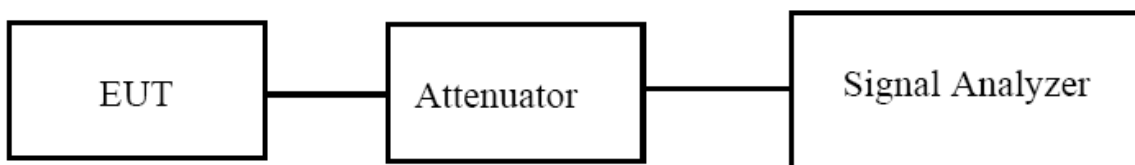
The maximum power spectral density is measured as a conducted emission by direct connection of a calibrated test instrument to the equipment under test. If the device cannot be connected directly, alternative techniques acceptable to the Commission may be used. Measurements in the 5.725-5.85 GHz band are made over a reference bandwidth of 500 kHz or the 26 dB emission bandwidth of the device, whichever is less. Measurements in the 5.15-5.25 GHz, 5.25-5.35 GHz, and the 5.47-5.725 GHz bands are made over a bandwidth of 1 MHz or the 26 dB emission bandwidth of the device, whichever is less. A narrower resolution bandwidth can be used, provided that the measured power is integrated over the full reference bandwidth.

#### 3.4.2 TEST PROCEDURE

- a) Set RBW = approximately 1% of the emission bandwidth.
- b) Set the VBW > RBW.
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Measure the maximum width of the emission that is 26 dB down from the maximum of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

The following procedure shall be used for measuring (99 %) power bandwidth:

- 1. Set center frequency to the nominal EUT channel center frequency.
- 2. Set span = 1.5 times to 5.0 times the OBW.
- 3. Set RBW = 1 % to 5 % of the OBW
- 4. Set VBW  $\geq 3 \cdot$  RBW
- 5. Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.
- 6. Use the 99 % power bandwidth function of the instrument (if available).
- 7. If the instrument does not have a 99 % power bandwidth function, the trace data points are recovered and directly summed in power units. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5 % of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5 % of the total is reached; that frequency is recorded as the upper frequency. The 99% occupied bandwidth is the difference between these two frequencies.



### 3.4.3 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

### 3.4.4 TEST RESULTS

|               |  |                     |             |
|---------------|--|---------------------|-------------|
| EUT :         | Tablet PC  | Model Name. :       | Tab 60 WiFi |
| Temperature : | 25 °C  | Relative Humidity : | 56%         |
| Pressure :    | 1012 hPa   | Test Voltage :      | DC 3.8V     |
| Test Mode :   | TX Frequency Band I (5150-5250MHz), Band IV (5725-5850MHz) |                     |             |

Test data reference attachment.

### 3.5 MINIMUM 6 DB BANDWIDTH

#### 3.5.1 Applied procedures / limit

##### According to FCC §15.407(e)

(e) Within the 5.725-5.85 GHz band, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

#### 3.5.2 TEST PROCEDURE

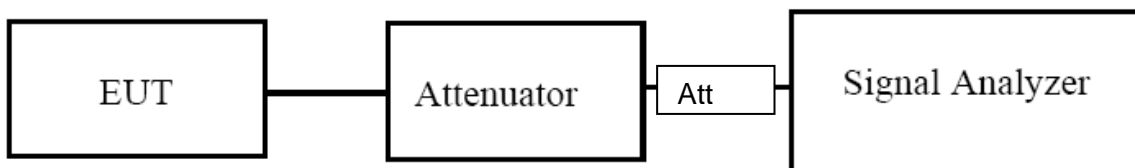
Section 15.407(e) specifies the minimum 6 dB emission bandwidth of at least 500 KHz for the band 5.715-5.85 GHz. The following procedure shall be used for measuring this bandwidth:

- a) Set RBW = 100 kHz.
- b) Set the video bandwidth (VBW)  $\geq 3 \times$  RBW.
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Sweep = auto couple.
- f) Allow the trace to stabilize.
- g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

#### 3.5.3 DEVIATION FROM STANDARD

No deviation.

#### 3.5.4 TEST SETUP



#### 3.5.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

**3.5.6 TEST RESULTS**

|               |   |                     |             |
|---------------|---|---------------------|-------------|
| EUT :         | Tablet PC                                     | Model Name. :       | Tab 60 WiFi |
| Temperature : | 25 °C   | Relative Humidity : | 60%         |
| Pressure :    | 1012 hPa                                      | Test Voltage :      | DC 3.8V     |
| Test Mode :   | TX (5G) Mode Frequency Band IV (5725-5850MHz) |                     |             |

Test data reference attachment.

### 3.6 MAXIMUM CONDUCTED OUTPUT POWER

#### 3.6.1 PPLIED PROCEDURES / LIMIT

##### According to FCC §15.407

The maximum conducted output power should not exceed:

| Frequency Band(MHz) | Limit |
|---------------------|-------|
| 5150~5250           | 250mW |
| 5725~5850           | 1W    |

#### 3.6.2 TEST PROCEDURE

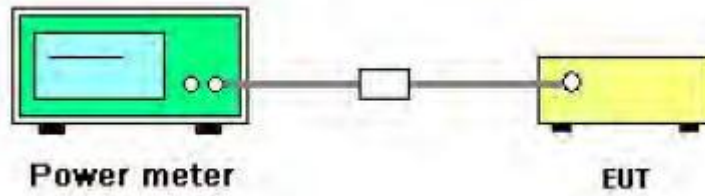
Method PM is Measurement using an RF average power meter. The procedure for this method is as follows:

- a) Measurements may be performed using a wideband RF power meter with a thermocouple detector or equivalent if all of the following conditions are satisfied:
  - 1) The EUT is configured to transmit continuously, or to transmit with a constant duty cycle.
  - 2) At all times when the EUT is transmitting, it shall be transmitting at its maximum power control level.
  - 3) The integration period of the power meter exceeds the repetition period of the transmitted signal by at least a factor of five.
- b) If the transmitter does not transmit continuously, measure the duty cycle D of the transmitter output signal as described in 12.2.
- c) Measure the average power of the transmitter. This measurement is an average over both the ON and OFF periods of the transmitter.
- d) Adjust the measurement in dBm by adding  $[10 \log (1 / D)]$ , where D is the duty cycle {e.g.,  $[10 \log (1 / 0.25)]$ , if the duty cycle is 25%}.

### 3.6.3 DEVIATION FROM STANDARD

No deviation.

### 3.6.4 TEST SETUP



### 3.6.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

**3.6.6 TEST RESULTS**

|               |  |                     |             |
|---------------|--|---------------------|-------------|
| EUT :         | Tablet PC  | Model Name. :       | Tab 60 WiFi |
| Temperature : | 25 °C  | Relative Humidity : | 60%         |
| Pressure :    | 1012 hPa   | Test Voltage :      | DC 3.8V     |
| Test Mode :   | TX (5G) Mode Frequency Band I (5150-5250MHz), Band IV (5725-5850MHz) |                     |             |

Test data reference attachment.

**3.7 OUT OF BAND EMISSIONS**

**3.7.1 Applicable Standard**

**According to FCC §15.407(b)**

Undesirable emission limits. Except as shown in paragraph (b)(7) of this section, the maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

(1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(2) For transmitters operating in the 5.725-5.85 GHz band: All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

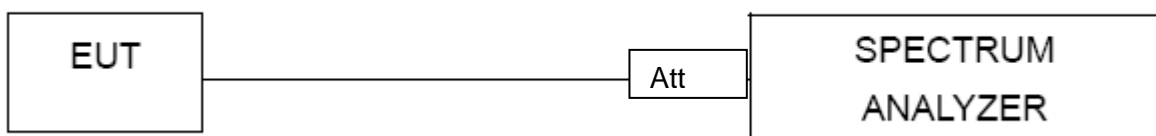
**3.7.2 Test Procedure**

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
3. Set RBW of spectrum analyzer to 1 MHz with a convenient frequency span.
4. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
5. Repeat above procedures until all measured frequencies were complete.

**3.7.3 DEVIATION FROM STANDARD**

No deviation.

**3.7.4 TEST SETUP**



**3.7.5 EUT OPERATION CONDITIONS**

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.



3.7.6 TEST RESULTS

|               |           |                     |             |
|---------------|-----------|---------------------|-------------|
| EUT :         | Tablet PC | Model Name. :       | Tab 60 WiFi |
| Temperature : | 25 °C     | Relative Humidity : | 56%         |
| Pressure :    | 1012 hPa  | Test Voltage :      | DC 3.8V     |

Test data reference attachment.

### **3.8 SPURIOUS RF CONDUCTED EMISSIONS**

#### **3.8.1 Conformance Limit**

According to FCC §15.407(b)(1)(4)

#### **3.8.2 Measuring Instruments**

The Measuring equipment is listed in the section 6.3 of this test report.

#### **3.8.3 Test Setup**

Please refer to Section 6.1 of this test report.

#### **3.8.4 Test Procedure**

The Spurious RF conducted emissions compliance of RF radiated emission should be measured by following the guidance in ANSI C63.10-2013 with respect to maximizing the emission by rotating the EUT, measuring the emission while the EUT is situated in three orthogonal planes (if appropriate), adjusting the measurement antenna height and polarization etc. Set RBW=1MHz and VBW= 3MHz to measure the peak field strength , and measure frequency range from 30MHz to 40GHz.

#### **3.8.5 Test Results**

Remark: The measurement frequency range is from 30MHz to the 10th harmonic of the fundamental frequency. The lowest, middle and highest channels are tested to verify the spurious emissions and bandedge measurement data.

Test data reference attachment.

### 3.9 FREQUENCY STABILITY MEASUREMENT

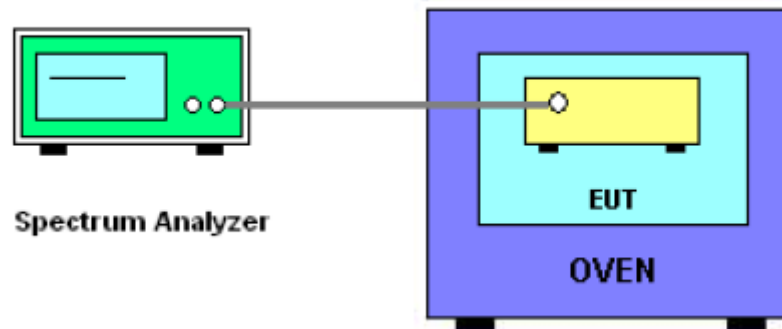
#### 3.9.1 LIMIT

Manufactures of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

#### 3.9.2 TEST PROCEDURES

1. The transmitter output (antenna port) was connected to the spectrum analyzer.
2. EUT have transmitted absence of modulation signal and fixed channelize.
3. Set the spectrum analyzer span to view the entire absence of modulation emissions bandwidth.
4. Set RBW = 10 kHz, VBW = 10 kHz with peak detector and maxhold settings.
5.  $f_c$  is declaring of channel frequency. Then the frequency error formula is  $(f_c - f) / f_c \times 10^6 \text{ ppm}$ .
6. The test extreme voltage is to change the primary supply voltage from 85 to 115 percent of the nominal value
7. Extreme temperature is  $-20^\circ\text{C} \sim 70^\circ\text{C}$ .

#### 3.9.3 TEST SETUP LAYOUT



#### 3.9.4 EUT OPERATION DURING TEST

The EUT was programmed to be in continuously un-modulation transmitting mode.

**3.9.5 TEST RESULTS**

|               |                                    |                     |             |
|---------------|------------------------------------|---------------------|-------------|
| EUT :         | Tablet PC                          | Model Name. :       | Tab 60 WiFi |
| Temperature : | 25 °C                              | Relative Humidity : | 56%         |
| Pressure :    | 1012 hPa                           | Test Voltage :      | DC 3.8V     |
| Test Mode :   | TX Frequency Band I (5150-5250MHz) |                     |             |

**Voltage vs. Frequency Stability**

| TEST CONDITIONS |    |           |      | Reference Frequency: 5180MHz |      |                      |                      |
|-----------------|----|-----------|------|------------------------------|------|----------------------|----------------------|
|                 |    |           |      | f                            | fc   | Max. Deviation (MHz) | Max. Deviation (ppm) |
| T nom (°C)      | 20 | V nom (V) | 3.80 | 5180.0156                    | 5180 | 0.0156               | 3.0116               |
|                 |    | V max (V) | 4.35 | 5180.0222                    | 5180 | 0.0222               | 4.2857               |
|                 |    | V min (V) | 3.40 | 5180.0145                    | 5180 | 0.0145               | 2.7992               |
| Limits          |    |           |      | Within 5150-5250MHz          |      |                      |                      |
| Result          |    |           |      | Complies                     |      |                      |                      |

**Temperature vs. Frequency Stability**

| TEST CONDITIONS |     |        |     | Reference Frequency: 5180MHz |      |                      |                      |
|-----------------|-----|--------|-----|------------------------------|------|----------------------|----------------------|
|                 |     |        |     | f                            | fc   | Max. Deviation (MHz) | Max. Deviation (ppm) |
| V nom (V)       | 3.8 | T (°C) | -20 | 5180.0308                    | 5180 | 0.0308               | 5.9459               |
|                 |     | T (°C) | -10 | 5180.0331                    | 5180 | 0.0331               | 6.3900               |
|                 |     | T (°C) | 0   | 5180.0224                    | 5180 | 0.0224               | 4.3243               |
|                 |     | T (°C) | 10  | 5180.0151                    | 5180 | 0.0151               | 2.9151               |
|                 |     | T (°C) | 20  | 5180.0056                    | 5180 | 0.0056               | 1.0811               |
|                 |     | T (°C) | 30  | 5180.0308                    | 5180 | 0.0308               | 5.9459               |
|                 |     | T (°C) | 40  | 5180.0323                    | 5180 | 0.0323               | 6.2355               |
|                 |     | T (°C) | 50  | 5180.0245                    | 5180 | 0.0245               | 4.7297               |
|                 |     | T (°C) | 60  | 5180.0066                    | 5180 | 0.0066               | 1.2741               |
|                 |     | T (°C) | 70  | 5180.0229                    | 5180 | 0.0229               | 4.4208               |
| Limits          |     |        |     | Within 5150-5250MHz          |      |                      |                      |
| Result          |     |        |     | Complies                     |      |                      |                      |

Voltage vs. Frequency Stability

| TEST CONDITIONS |    |           |      | Reference Frequency: 5200MHz |      |                      |                      |
|-----------------|----|-----------|------|------------------------------|------|----------------------|----------------------|
|                 |    |           |      | f                            | fc   | Max. Deviation (MHz) | Max. Deviation (ppm) |
| T nom (°C)      | 20 | V nom (V) | 3.80 | 5200.0263                    | 5200 | 0.0263               | 5.0577               |
|                 |    | V max (V) | 4.35 | 5200.0035                    | 5200 | 0.0035               | 0.6731               |
|                 |    | V min (V) | 3.40 | 5200.0228                    | 5200 | 0.0228               | 4.3846               |
| Limits          |    |           |      | Within 5150-5250MHz          |      |                      |                      |
| Result          |    |           |      | Complies                     |      |                      |                      |

Temperature vs. Frequency Stability

| TEST CONDITIONS |     |        |     | Reference Frequency: 5200MHz |      |                      |                      |
|-----------------|-----|--------|-----|------------------------------|------|----------------------|----------------------|
|                 |     |        |     | f                            | fc   | Max. Deviation (MHz) | Max. Deviation (ppm) |
| V nom (V)       | 3.8 | T (°C) | -20 | 5200.0322                    | 5200 | 0.0322               | 6.1923               |
|                 |     | T (°C) | -10 | 5200.0169                    | 5200 | 0.0169               | 3.2500               |
|                 |     | T (°C) | 0   | 5200.0175                    | 5200 | 0.0175               | 3.3654               |
|                 |     | T (°C) | 10  | 5200.0336                    | 5200 | 0.0336               | 6.4615               |
|                 |     | T (°C) | 20  | 5200.0061                    | 5200 | 0.0061               | 1.1731               |
|                 |     | T (°C) | 30  | 5200.0275                    | 5200 | 0.0275               | 5.2885               |
|                 |     | T (°C) | 40  | 5200.0228                    | 5200 | 0.0228               | 4.3846               |
|                 |     | T (°C) | 50  | 5200.0059                    | 5200 | 0.0059               | 1.1346               |
|                 |     | T (°C) | 60  | 5200.0271                    | 5200 | 0.0271               | 5.2115               |
|                 |     | T (°C) | 70  | 5200.0133                    | 5200 | 0.0133               | 2.5577               |
| Limits          |     |        |     | Within 5150-5250MHz          |      |                      |                      |
| Result          |     |        |     | Complies                     |      |                      |                      |

Voltage vs. Frequency Stability

| TEST CONDITIONS |    |           |      | Reference Frequency: 5240MHz |      |                      |                      |
|-----------------|----|-----------|------|------------------------------|------|----------------------|----------------------|
|                 |    |           |      | f                            | fc   | Max. Deviation (MHz) | Max. Deviation (ppm) |
| T nom (°C)      | 20 | V nom (V) | 3.80 | 5240.0068                    | 5240 | 0.0068               | 1.2977               |
|                 |    | V max (V) | 4.35 | 5240.0059                    | 5240 | 0.0059               | 1.1260               |
|                 |    | V min (V) | 3.40 | 5240.0252                    | 5240 | 0.0252               | 4.8092               |
| Limits          |    |           |      | Within 5150-5250MHz          |      |                      |                      |
| Result          |    |           |      | Complies                     |      |                      |                      |

Temperature vs. Frequency Stability

| TEST CONDITIONS |     |        |     | Reference Frequency: 5240MHz |      |                      |                      |
|-----------------|-----|--------|-----|------------------------------|------|----------------------|----------------------|
|                 |     |        |     | f                            | fc   | Max. Deviation (MHz) | Max. Deviation (ppm) |
| V nom (V)       | 3.8 | T (°C) | -20 | 5240.0156                    | 5240 | 0.0156               | 2.9771               |
|                 |     | T (°C) | -10 | 5240.0262                    | 5240 | 0.0262               | 5.0000               |
|                 |     | T (°C) | 0   | 5240.0054                    | 5240 | 0.0054               | 1.0305               |
|                 |     | T (°C) | 10  | 5240.0169                    | 5240 | 0.0169               | 3.2252               |
|                 |     | T (°C) | 20  | 5240.0318                    | 5240 | 0.0318               | 6.0687               |
|                 |     | T (°C) | 30  | 5240.0248                    | 5240 | 0.0248               | 4.7328               |
|                 |     | T (°C) | 40  | 5240.0051                    | 5240 | 0.0051               | 0.9733               |
|                 |     | T (°C) | 50  | 5240.0019                    | 5240 | 0.0019               | 0.3626               |
|                 |     | T (°C) | 60  | 5240.0217                    | 5240 | 0.0217               | 4.1412               |
|                 |     | T (°C) | 70  | 5240.0039                    | 5240 | 0.0039               | 0.7443               |
| Limits          |     |        |     | Within 5150-5250MHz          |      |                      |                      |
| Result          |     |        |     | Complies                     |      |                      |                      |

|               |                            |                     |             |
|---------------|----------------------------|---------------------|-------------|
| EUT :         | Tablet PC                  | Model Name. :       | Tab 60 WiFi |
| Temperature : | 25 °C                      | Relative Humidity : | 56%         |
| Pressure :    | 1012 hPa                   | Test Voltage :      | DC 3.8V     |
| Test Mode :   | TX Frequency(5745-5825MHz) |                     |             |

Voltage vs. Frequency Stability

| TEST CONDITIONS |    |           |      | Reference Frequency: 5745MHz |      |                      |                      |
|-----------------|----|-----------|------|------------------------------|------|----------------------|----------------------|
|                 |    |           |      | f                            | fc   | Max. Deviation (MHz) | Max. Deviation (ppm) |
| T nom (°C)      | 20 | V nom (V) | 3.80 | 5745.0026                    | 5745 | 0.0026               | 0.4526               |
|                 |    | V max (V) | 4.35 | 5745.0249                    | 5745 | 0.0249               | 4.3342               |
|                 |    | V min (V) | 3.40 | 5745.0141                    | 5745 | 0.0141               | 2.4543               |
| Limits          |    |           |      | Within 5745-5850MHz          |      |                      |                      |
| Result          |    |           |      | Complies                     |      |                      |                      |

Temperature vs. Frequency Stability

| TEST CONDITIONS |     |        |     | Reference Frequency: 5745MHz |      |                      |                      |
|-----------------|-----|--------|-----|------------------------------|------|----------------------|----------------------|
|                 |     |        |     | f                            | fc   | Max. Deviation (MHz) | Max. Deviation (ppm) |
| V nom (V)       | 3.8 | T (°C) | -20 | 5745.0125                    | 5745 | 0.0125               | 2.1758               |
|                 |     | T (°C) | -10 | 5745.0153                    | 5745 | 0.0153               | 2.6632               |
|                 |     | T (°C) | 0   | 5745.0171                    | 5745 | 0.0171               | 2.9765               |
|                 |     | T (°C) | 10  | 5745.0181                    | 5745 | 0.0181               | 3.1506               |
|                 |     | T (°C) | 20  | 5745.0236                    | 5745 | 0.0236               | 4.1079               |
|                 |     | T (°C) | 30  | 5745.0048                    | 5745 | 0.0048               | 0.8355               |
|                 |     | T (°C) | 40  | 5745.0151                    | 5745 | 0.0151               | 2.6284               |
|                 |     | T (°C) | 50  | 5745.0094                    | 5745 | 0.0094               | 1.6362               |
|                 |     | T (°C) | 60  | 5745.0026                    | 5745 | 0.0026               | 0.4526               |
|                 |     | T (°C) | 70  | 5745.0173                    | 5745 | 0.0173               | 3.0113               |
| Limits          |     |        |     | Within 5745-5850MHz          |      |                      |                      |
| Result          |     |        |     | Complies                     |      |                      |                      |

Voltage vs. Frequency Stability

| TEST CONDITIONS |    |           |      | Reference Frequency: 5785MHz |      |                      |                      |
|-----------------|----|-----------|------|------------------------------|------|----------------------|----------------------|
|                 |    |           |      | f                            | fc   | Max. Deviation (MHz) | Max. Deviation (ppm) |
| T nom (°C)      | 20 | V nom (V) | 3.80 | 5785.0248                    | 5785 | 0.0248               | 4.3168               |
|                 |    | V max (V) | 4.35 | 5785.0333                    | 5785 | 0.0333               | 5.7963               |
|                 |    | V min (V) | 3.40 | 5785.0161                    | 5785 | 0.0161               | 2.8024               |
| Limits          |    |           |      | Within 5745-5850MHz          |      |                      |                      |
| Result          |    |           |      | Complies                     |      |                      |                      |

Temperature vs. Frequency Stability

| TEST CONDITIONS |     |        |     | Reference Frequency: 5785MHz |      |                      |                      |
|-----------------|-----|--------|-----|------------------------------|------|----------------------|----------------------|
|                 |     |        |     | f                            | fc   | Max. Deviation (MHz) | Max. Deviation (ppm) |
| V nom (V)       | 3.8 | T (°C) | -20 | 5785.0217                    | 5785 | 0.0217               | 3.7772               |
|                 |     | T (°C) | -10 | 5785.0229                    | 5785 | 0.0229               | 3.9861               |
|                 |     | T (°C) | 0   | 5785.0011                    | 5785 | 0.0011               | 0.1915               |
|                 |     | T (°C) | 10  | 5785.0182                    | 5785 | 0.0182               | 3.1680               |
|                 |     | T (°C) | 20  | 5785.0151                    | 5785 | 0.0151               | 2.6284               |
|                 |     | T (°C) | 30  | 5785.0268                    | 5785 | 0.0268               | 4.6649               |
|                 |     | T (°C) | 40  | 5785.0129                    | 5785 | 0.0129               | 2.2454               |
|                 |     | T (°C) | 50  | 5785.0141                    | 5785 | 0.0141               | 2.4543               |
|                 |     | T (°C) | 60  | 5785.0311                    | 5785 | 0.0311               | 5.4134               |
|                 |     | T (°C) | 70  | 5785.0041                    | 5785 | 0.0041               | 0.7137               |
| Limits          |     |        |     | Within 5745-5850MHz          |      |                      |                      |
| Result          |     |        |     | Complies                     |      |                      |                      |



Voltage vs. Frequency Stability

| TEST CONDITIONS |    |           |      | Reference Frequency: 5825MHz |      |                      |                      |
|-----------------|----|-----------|------|------------------------------|------|----------------------|----------------------|
|                 |    |           |      | f                            | fc   | Max. Deviation (MHz) | Max. Deviation (ppm) |
| T nom (°C)      | 20 | V nom (V) | 3.80 | 5825.0058                    | 5825 | 0.0058               | 1.0096               |
|                 |    | V max (V) | 4.35 | 5825.0014                    | 5825 | 0.0014               | 0.2437               |
|                 |    | V min (V) | 3.40 | 5825.0228                    | 5825 | 0.0228               | 3.9687               |
| Limits          |    |           |      | Within 5745-5850MHz          |      |                      |                      |
| Result          |    |           |      | Complies                     |      |                      |                      |

Temperature vs. Frequency Stability

| TEST CONDITIONS |     |        |     | Reference Frequency: 5825MHz |      |                      |                      |
|-----------------|-----|--------|-----|------------------------------|------|----------------------|----------------------|
|                 |     |        |     | f                            | fc   | Max. Deviation (MHz) | Max. Deviation (ppm) |
| V nom (V)       | 3.8 | T (°C) | -20 | 5825.0017                    | 5825 | 0.0017               | 0.2959               |
|                 |     | T (°C) | -10 | 5825.0229                    | 5825 | 0.0229               | 3.9861               |
|                 |     | T (°C) | 0   | 5825.0314                    | 5825 | 0.0314               | 5.4656               |
|                 |     | T (°C) | 10  | 5825.0536                    | 5825 | 0.0536               | 9.3299               |
|                 |     | T (°C) | 20  | 5825.0319                    | 5825 | 0.0319               | 5.5527               |
|                 |     | T (°C) | 30  | 5825.0302                    | 5825 | 0.0302               | 5.2567               |
|                 |     | T (°C) | 40  | 5825.0017                    | 5825 | 0.0017               | 0.2959               |
|                 |     | T (°C) | 50  | 5825.0241                    | 5825 | 0.0241               | 4.1950               |
|                 |     | T (°C) | 60  | 5825.0256                    | 5825 | 0.0256               | 4.4560               |
|                 |     | T (°C) | 70  | 5825.0114                    | 5825 | 0.0114               | 1.9843               |
| Limits          |     |        |     | Within 5745-5850MHz          |      |                      |                      |
| Result          |     |        |     | Complies                     |      |                      |                      |

## 4. ANTENNA REQUIREMENT

### 4.1 STANDARD REQUIREMENT

15.203 requirement: For intentional device, according to 15.203: 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.

### 4.2 EUT ANTENNA

The EUT antenna is permanent attached FPC antenna (antenna gain: band I : 1.3dBi; band IV: 1.3dBi;). It comply with the standard requirement.

END OF REPORT