# FCC Part 15B TEST REPORT

Report No.: STS2205025E02

Issued for

WIZnet H.K. LTD.

Unit 219, Building 1W, Hong Kong Science Park, Pak Shek Kok, New Territories, Hong Kong

| | |
|---|---|
| **Product Name:** | WiFi Module |
| **Brand Name:** | WIZnet |
| **Model Name:** | WizFi360 |
| **Series Model:** | WizFi360-PA,WizFi360-CON |
| **Test Standard:** | FCC 47 CFR Part 15: Subpart B |



Shenzhen STS Test Services Co., Ltd.
A 1/F, Building B, Zhuoke Science Park, No.190 Chongqing Road, HepingShequ, Fuyong Sub-District, Bao'an District, Shenzhen, Guang Dong, China
TEL: +86-755 3688 6288 FAX: +86-755 3688 6277 E-mail:sts@stsapp.com

## TEST RESULT CERTIFICATION

| | | |
|---|---|---|
| **Applicant's Name** | : | WIZnet H.K. LTD. |
| Address | : | Unit 219, Building 1W, Hong Kong Science Park, Pak Shek Kok, New Territories, Hong Kong |
| **Manufacture's Name** | : | WIZnet Co., Ltd. |
| Address | : | 5F Humax Village,216 Hwangsaeul-ro, Bundang-gu, Seongnam-si, Gyeonggi-do, 13595 Korea |
| **Product Description** | : | |
| Product Name | : | WiFi Module |
| Brand Name | : | WIZnet |
| Model Name | : | WizFi360 |
| Series Model | : | WizFi360-PA,WizFi360-CON |
| **Standards** | : | FCC 47 CFR Part 15: Subpart B |
| Test Procedure | : | ANSI C63.4-2014 |

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

This report shall not be reproduced except in full, without the written approval of STS, this document may be altered or revised by STS, personal only, and shall be noted in the revision of the document.

| | | |
|---|---|---|
| Date of Test | : | |
| Date of Performance of Tests | : | 06 June. 2019~18 June. 2019 |
| Date of Issue | : | 10 May 2022 |
| Test Result | : | **Pass** |

Testing Engineer : Jane. chen

(Jane Chen)

Technical Manager : Bulun

(Bulun)

Authorized Signatory : Bovey Yang

(Bovey Yang)

## Table of Contents

## Revision History

| Rev. | Issue Date | Report No. | Effect Page | Contents |
|---|---|---|---|---|
| 00 | 19 June. 2019 | STS1906023E01 | ALL | Initial Issue |
| 00 | 10 May 2022 | STS2205025E02 | ALL | Updated Applicant's Address, Manufacturer's Name/Address and add Model Name. |
| | | | | |

1. SUMMARY OF THE TEST RESULTS

Test procedures according to the technical standards:

| EMISSION | | | |
|---|---|---|---|
| Standard | Item | Result | Remarks |
| FCC 47 CFR Part 15: Subpart B | Conducted Emission | N/A | Meet Class B limit |
| | Radiated Emission | PASS | Meet Class B limit |

NOTE:

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

### 1.1 TEST FACTORY

| | |
|---|---|
| Company Name: | Shenzhen STS Test Services Co. Ltd. |
| Address: | 1/F., Building B, Zhuoke Science Park, No.190, Chongqing Road, Fuyong Street, Bao'an District, Shenzhen, Guangdong, China |
| Telephone: | +86-755 3688 6288 |
| Fax: | +86-755 3688 6277 |
| Registration No.: | FCC test Firm Registration Number: 625569 |
| | A2LA Certificate No.: 4338.01; |

### 1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement y ± U, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately95 %。

| No. | Item | Uncertainty |
|---|---|---|
| 1 | Conducted Emission (9KHz-150KHz) | ±3.18dB |
| 2 | Conducted Emission (150KHz-30MHz) | ±2.70dB |
| 3 | All emissions,radiated(<1G) 30MHz-200MHz | ±3.43dB |
| 4 | All emissions,radiated(<1G) 200MHz-1000MHz | ±3.57dB |
| 5 | All emissions,radiated(>1G) | ±4.13dB |
| 6 | All emissions,radiated(<1G) 9KHz-30MHz | ±2.50dB |

# 2. GENERAL INFORMATION

## 2.1 GENERAL DESCRIPTION OF THE EUT

| | | |
|---|---|---|
| Product Name | WiFi Module | |
| Brand Name | WIZnet | |
| Model Name | WizFi360 | |
| Series Model | WizFi360-PA,WizFi360-CON | |
| Product Differences | 1.WizFi360-PA has a PCB antenna onboard, WizFi360-CON doesn't have;<br>2.WizFi360-CON has an IPEX antenna connector onboard, WizFi360-PA doesn't have;<br>3.WizFi360-PA has a LED light onboard, WizFi360-CON doesn't have<br>4.WizFi360 is the same as wizfi360-PA | |
| Test Sample Number | 190605011 | |
| Product Description | The EUT is a WizFi360<br><br>Based on the application, features, or specification exhibited in User's Manual, the EUT is considered as an ITE/Digital Apparatus. More details of EUT technical specification, please refer to the User's Manual. | |
| Frequency Bands | WLAN | 802 11b/g/n(HT20):2412~2462MHz<br>802 11n(HT40):2422~2452MHz |
| Modulation Mode | WLAN | 802.11b(DSSS):CCK,DQPSK,DBPSK<br>802.11g(OFDM):BPSK,QPSK,16-QAM,64-QAM<br>802.11n(OFDM):BPSK,QPSK,16-QAM,64-QAM |
| Power Source | Input: 3.3 V | |
| Hardware Version Number | Rev 1.2 | |
| Software Version Number | V1.0.1.2 | |

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

## 2.2 DESCRIPTION OF THE TEST MODES

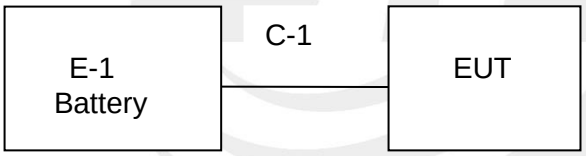
To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration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

| Pretest Mode | Description |
|---|---|
| Mode 1 | WLAN Connecting Mode |

| For Radiated Test | |
|---|---|
| Final Test Mode | Description |
| Mode 1 | WLAN Connecting Mode |

NOTE: The test modes were carried out for all operation modes. Only worst case will be show in this report.

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



## 2.4 DESCRIPTION OF THE SUPPORT UNITS

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

Accessories equipment

| Item | Equipment | Mfr/Brand | Model/Type No. |
|---|---|---|---|
| N/A | N/A | N/A | N/A |

Auxiliary equipment

| Item | Equipment | Mfr/Brand | Model/Type No. |
|---|---|---|---|
| E-1 | Battery | N/A | N/A |
| | | | |
| | | | |

Cable

| Item | Type | Shielded Type | Ferrite Core | Length |
|---|---|---|---|---|
| C-1 | N/A | Shielded | NO | 20cm |
| | | | | |
| | | | | |

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.

(3) “YES” is means “shielded” “with core”; “NO” is means “unshielded” “without core”.

## 2.5 EQUIPMENTS LIST FOR ALL TEST ITEMS

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.

Radiation Test equipment

| Kind of Equipment | Manufacturer | Type No. | Serial No. | Last Calibration | Calibrated Until |
|---|---|---|---|---|---|
| EMI Test Receiver | R&S | ESCI | 101427 | 2018.10.13 | 2019.10.12 |
| Bi-log Antenna | TESEQ | CBL6111D | 34678 | 2017.11.02 | 2020.11.01 |
| Horn Antenna | SCHWARZBECK | BBHA 9120D | 9120D-1343 | 2018.10.19 | 2021.10.18 |
| Pre-amplifier(1G-18G) | SKET | LNPA-01018G-45 | SK2018080901 | 2018.10.13 | 2019.10.12 |
| Pre-amplifier(0.1M-3GHz) | EM | EM330 | 060665 | 2018.10.13 | 2019.10.12 |
| Spectrum Analyzer | Agilent | N9020A | MY49100060 | 2018.10.13 | 2019.10.12 |
| RE Cable (9K-1G) | N/A | R01 | N/A | 2018.10.13 | 2019.10.12 |
| RE Cable (1G-18G) | N/A | R02 | N/A | 2018.10.13 | 2019.10.12 |
| Temperature & Humidity | Mieo | HH660 | N/A | 2018.10.11 | 2019.10.10 |
| Horn Antenna(18-40GHz) | A-INFO | LB-180400-KF | J211020657 | 2018.03.11 | 2021.03.10 |
| Testing Software | EZ-EMC(Ver.STSLAB-03A1 RE) | | | | |

# 3. EMC EMISSION TEST

## 3.1 CONDUCTED EMISSION MEASUREMENT

### 3.1.1 POWER LINE CONDUCTED EMISSION Limits

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

Note:

(1) The tighter limit applies at the band edges.

(2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

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

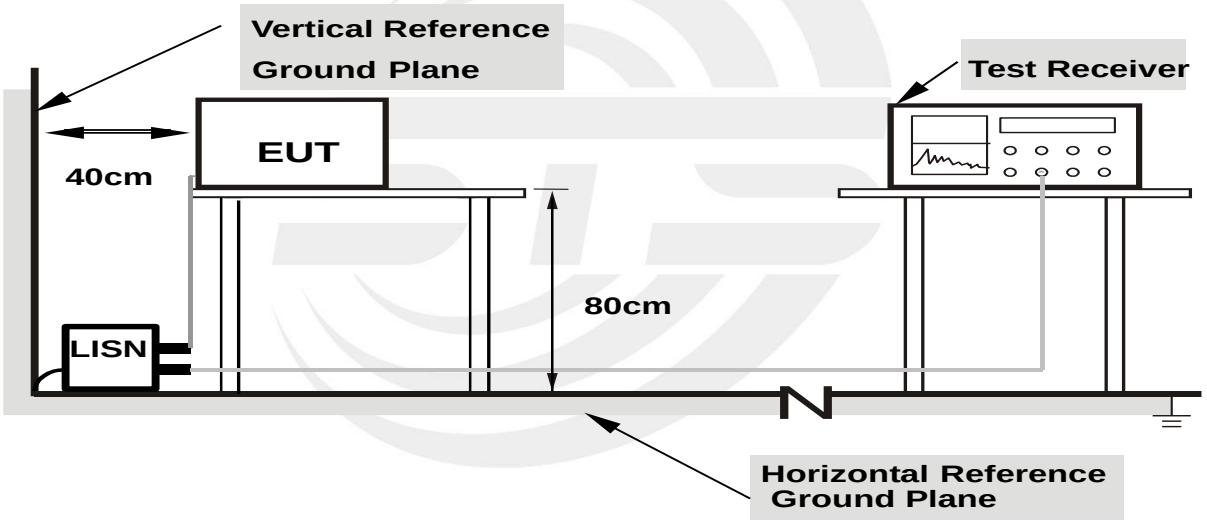
3.1.2 TEST PROCEDURE

a. The EUT was 0.8 meters from the horizontal ground plane and 0.4 meters from the vertical ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
c. 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.
d. For the actual test configuration, please refer to the related Item –EUT Test Photos.

3.1.3 DEVIATION FROM TEST STANDARD

No deviation

3.1.4 TEST SETUP




**Note: 1.Support units were connected to second LISN.**
**2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes**

3.1.5 EUT OPERATING CONDITIONS

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

3.1.6 TEST RESULTS

| | | | |
|---|---|---|---|
| Temperature: | 25.4 ℃ | Relative Humidity: | 60% |
| Phase: | L/N | Test Mode: | N/A |
| Test Voltage: | DC 3.3 From Battery | | |

Note: DC 3.6V test is not applicable in this test report

## 3.2 RADIATED EMISSION MEASUREMENT

### 3.2.1 Radiated Emission Limits

Class A: ITE that meets the conditions for Class A operation defined in Section 2.2 shall comply with the Class A radiated limits set out in Table 4 determined at a distance of 3 metres.

Class A Radiated Limits Below 1 GHz:

| Frequencies (MHz) | Class A (dBμV/m) |
|---|---|
| | Quasi-peak |
| 30~88 | 49.5 |
| 88~216 | 53.9 |
| 216~960 | 56.9 |
| 960~1000 | 60 |

Class B: ITE that does not meet the conditions for Class A operation shall comply with the Class B radiated limits set out in Table 5 determined at a distance of 3 metres.

Class B Radiated Limits Below 1 GHz:

| Frequencies (MHz) | Class B (dBμV/m) |
|---|---|
| | Quasi-peak |
| 30~88 | 40 |
| 88~216 | 43.5 |
| 216~960 | 46 |
| 960~1000 | 54 |

In case the emission 109(a) limit in the table below has to be followed.

| Frequencies (MHz) | Field Strength (micorvolts/meter) | Measurement Distance (meters) |
|---|---|---|
| 30~88 | 100 | 3 |
| 88~216 | 150 | 3 |
| 216~960 | 200 | 3 |
| Above 960 | 500 | 3 |

LIMITS OF RADIATED EMISSION MEASUREMENT

| FREQUENCY (MHz) | Class A (dBuV/m) (at 3M) | | Class B (dBuV/m) (at 3M) | |
|---|---|---|---|---|
| | PEAK | AVERAGE | PEAK | AVERAGE |
| Above 1000 | 80 | 60 | 74 | 54 |

Note:

(1) The limit for radiated test was performed in the following: FCC PART 15B.

(2) The tighter limit applies at the band edges.

(3) Emission level (dBuV/m) = 20log Emission level (uV/m).

FREQUENCY RANGE OF THE RADIATED MEASUREMENT (For unintentional radiators)

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

| Spectrum Parameter | Setting |
|---|---|
| Attenuation | Auto |
| Detector | Peak |
| Start Frequency | 1000 MHz(Peak/AV) |
| Stop Frequency | 5th harmonic (Peak/AV) |
| RB / VB (emission in restricted band) | 30MHz to 1000MHz: 100 KHz / 300 KHz<br>Above 1000MHz: 1 MHz / 3 MHz |

| Receiver Parameter | Setting |
|---|---|
| Attenuation | Auto |
| Start ~ Stop Frequency | 30MHz to 1000MHz: 100 KHz / 300 KHz<br>Above 1000MHz: 1 MHz / 3 MHz |

3.2.2 TEST PROCEDURE

a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
c. The height of antenna is varied from 1 meter to 4 meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
e. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1GHz.
f. For the actual test configuration, please refer to the related Item –EUT Test Photos.

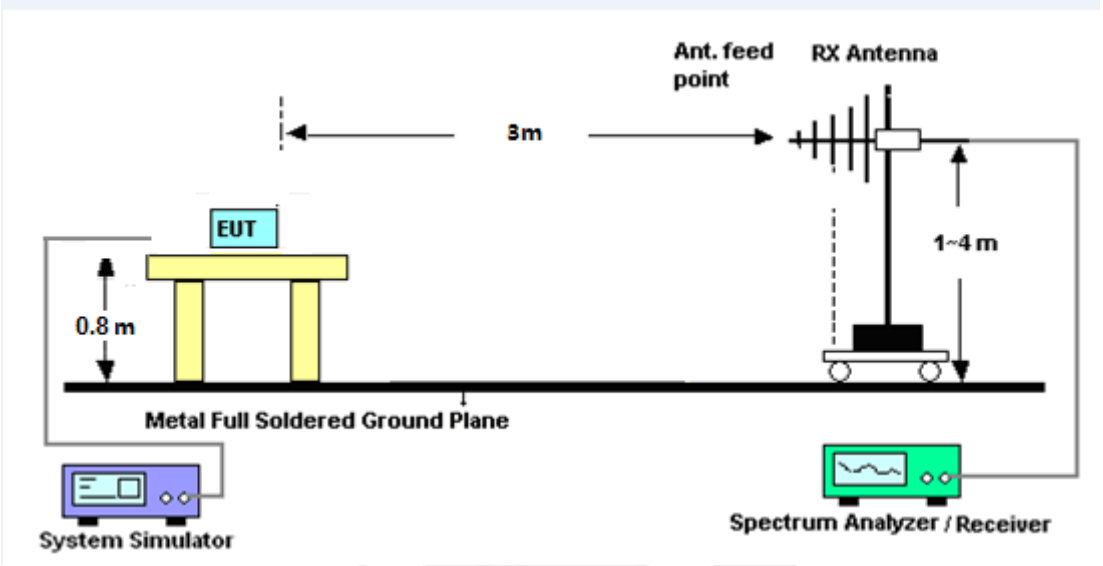
Note: Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

3.2.3 DEVIATION FROM TEST STANDARD

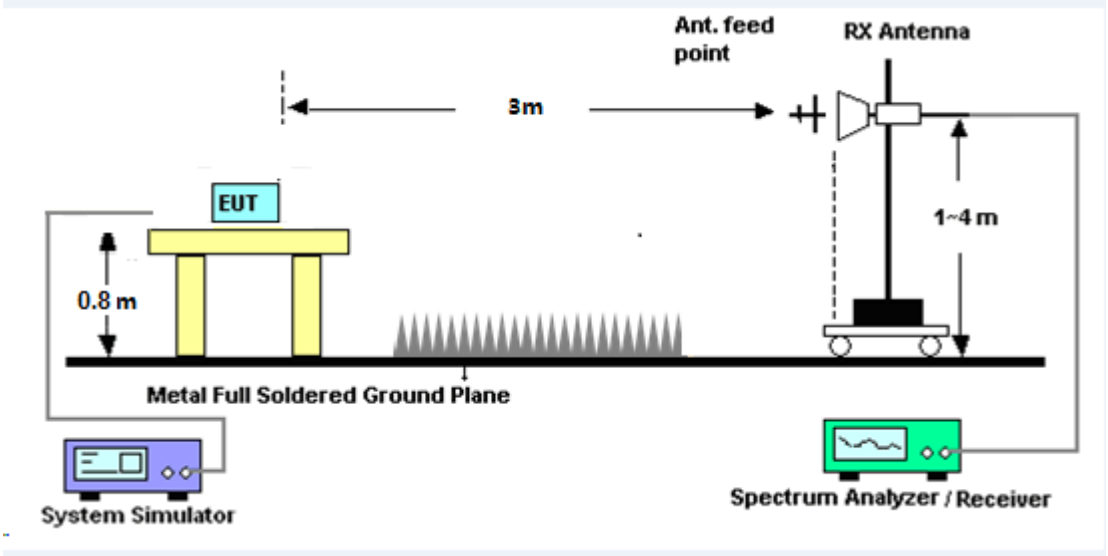
No deviation

3.2.4 TEST SETUP

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




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




3.2.5 EUT OPERATING CONDITIONS

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

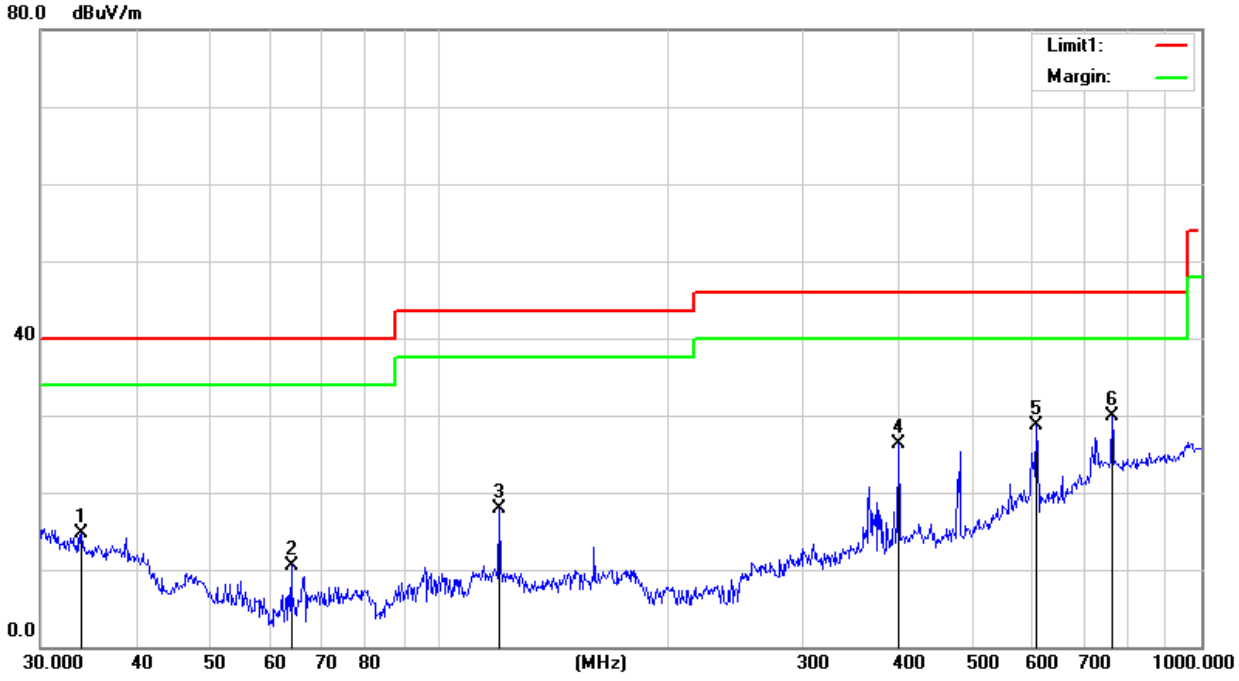
3.2.6 TEST RESULTS

30MHz -1000MHz

| | | | |
|---|---|---|---|
| Temperature: | 27.8 ℃ | Relative Humidity: | 70% |
| Phase: | Horizontal | Test Mode: | Mode 1 |
| Test Voltage: | DC 3.3From Battery | Model: | WizFi360-PA (1#) |

| No. | Frequency (MHz) | Reading (dBuV) | Correct Factor (dB) | Results (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 1 | 33.9174 | 27.97 | -13.20 | 14.77 | 40.00 | -25.23 | QP |
| 2 | 63.9827 | 34.85 | -24.25 | 10.60 | 40.00 | -29.40 | QP |
| 3 | 119.8555 | 35.51 | -17.70 | 17.81 | 43.50 | -25.69 | QP |
| 4 | 400.4318 | 37.47 | -11.22 | 26.25 | 46.00 | -19.75 | QP |
| 5 | 607.7866 | 35.65 | -6.89 | 28.76 | 46.00 | -17.24 | QP |
| 6 | 763.3757 | 33.34 | -3.52 | 29.82 | 46.00 | -16.18 | QP |

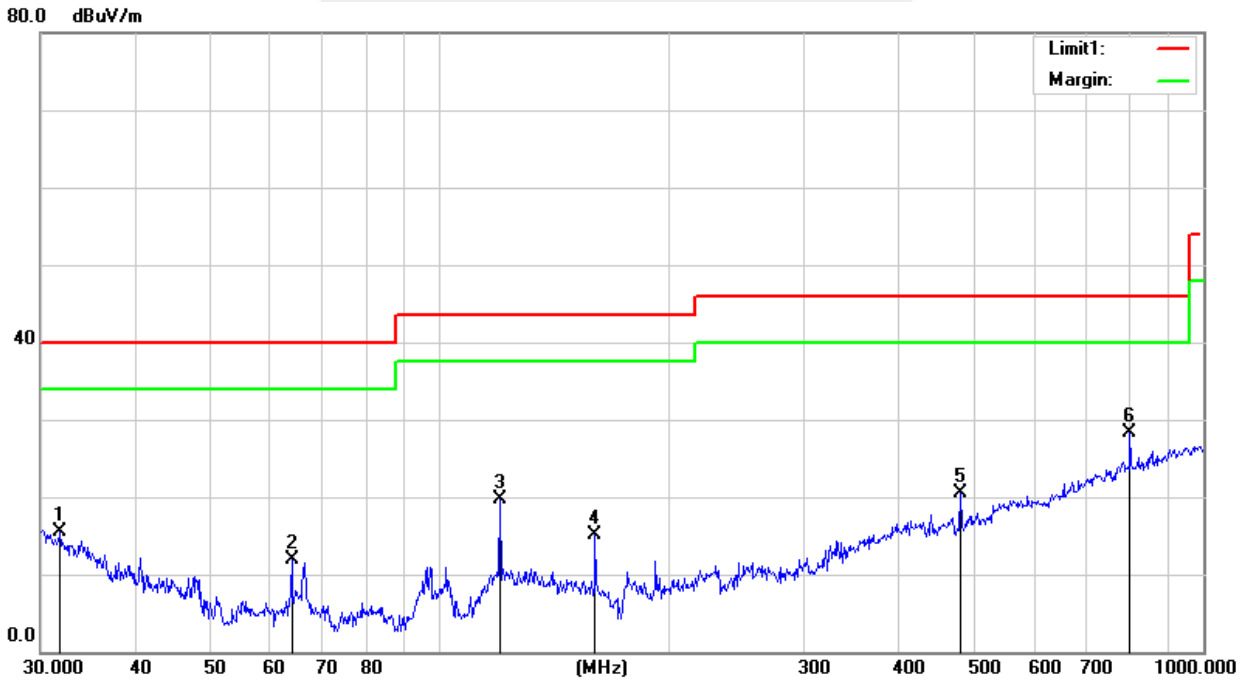
Remark:
1. All readings are Quasi-Peak.
2. Margin = Result (Result =Reading + Factor )–Limit
3. Factor= Cable Loss +Antenna Factor-Amplifier Gain



| | | | |
|---|---|---|---|
| Temperature: | 27.8 ℃ | Relative Humidity: | 70% |
| Phase: | Vertical | Test Mode: | Mode 1 |
| Test Voltage: | DC 3.3 From Battery | Model: | WizFi360-PA (1#) |

| No. | Frequency (MHz) | Reading (dBuV) | Correct Factor (dB) | Results (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 1 | 31.8427 | 27.56 | -12.14 | 15.42 | 40.00 | -24.58 | QP |
| 2 | 63.9827 | 36.06 | -24.25 | 11.81 | 40.00 | -28.19 | QP |
| 3 | 119.8555 | 37.47 | -17.70 | 19.77 | 43.50 | -23.73 | QP |
| 4 | 159.7844 | 33.58 | -18.49 | 15.09 | 43.50 | -28.41 | QP |
| 5 | 480.5276 | 29.97 | -9.38 | 20.59 | 46.00 | -25.41 | QP |
| 6 | 801.7862 | 31.83 | -3.49 | 28.34 | 46.00 | -17.66 | QP |

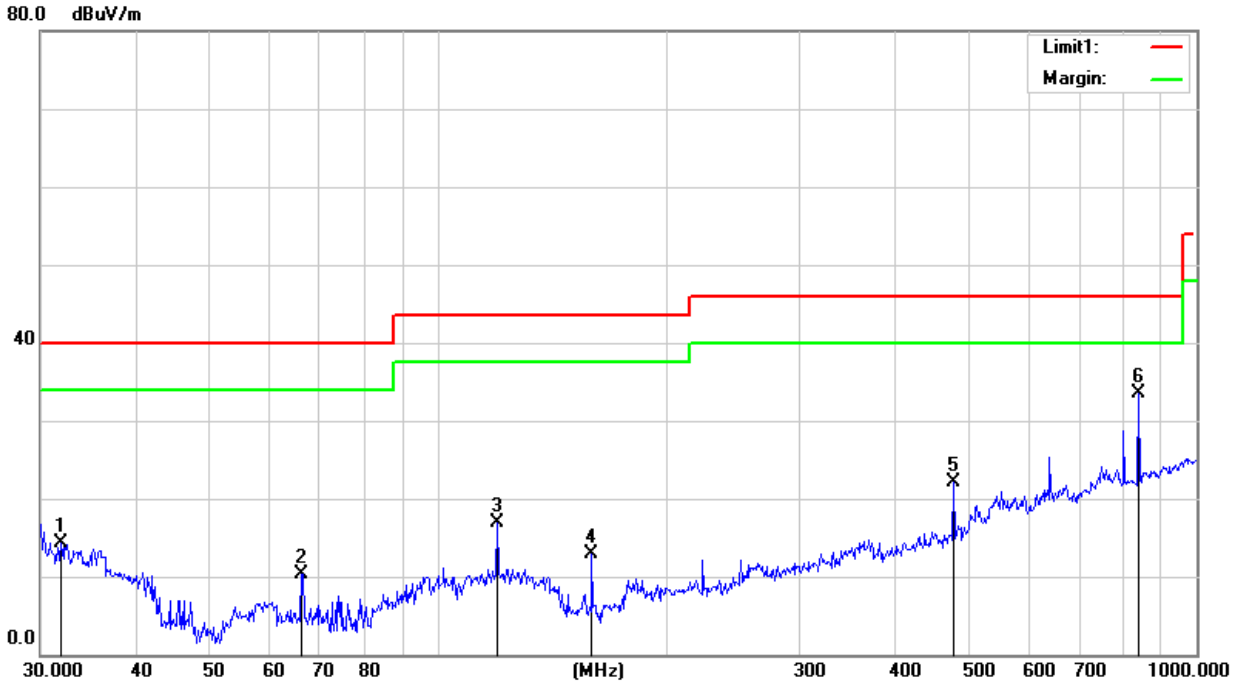
Remark:
1. All readings are Quasi-Peak.
2. Margin = Result (Result =Reading + Factor )–Limit
3. Factor= Cable Loss +Antenna Factor-Amplifier Gain



| | | | |
|---|---|---|---|
| Temperature: | 27.8 ℃ | Relative Humidity: | 70% |
| Phase: | Horizontal | Test Mode: | Mode 1 |
| Test Voltage: | DC 3.3 From Battery | Model: | WizFi360-PA (2#) |

| No. | Frequency (MHz) | Reading (dBuV) | Correct Factor (dB) | Results (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 1 | 31.9542 | 26.47 | -12.20 | 14.27 | 40.00 | -25.73 | QP |
| 2 | 66.2660 | 34.55 | -24.19 | 10.36 | 40.00 | -29.64 | QP |
| 3 | 119.8555 | 34.66 | -17.70 | 16.96 | 43.50 | -26.54 | QP |
| 4 | 159.7844 | 31.30 | -18.49 | 12.81 | 43.50 | -30.69 | QP |
| 5 | 478.8455 | 31.58 | -9.47 | 22.11 | 46.00 | -23.89 | QP |
| 6 | 839.1816 | 36.29 | -2.78 | 33.51 | 46.00 | -12.49 | QP |

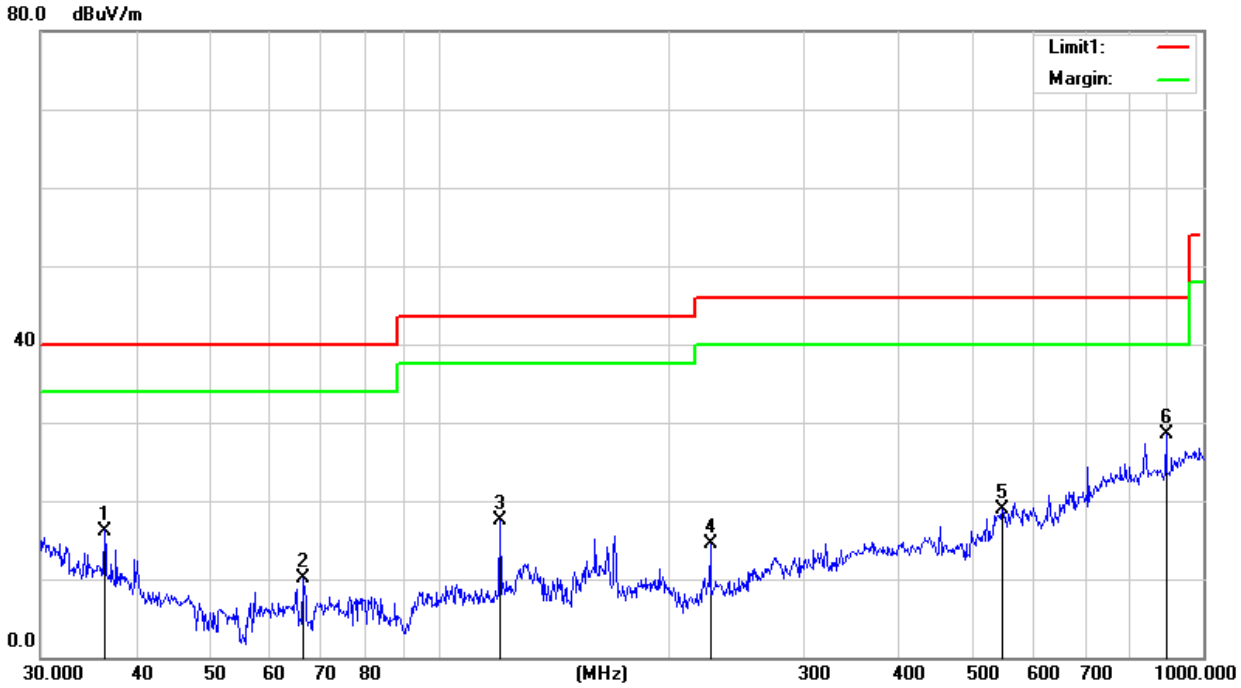
Remark:
1. All readings are Quasi-Peak.
2. Margin = Result (Result =Reading + Factor )–Limit
3. Factor= Cable Loss +Antenna Factor-Amplifier Gain



| | | | |
|---|---|---|---|
| Temperature: | 27.8 ℃ | Relative Humidity: | 70% |
| Phase: | Vertical | Test Mode: | Mode 1 |
| Test Voltage: | DC 3.3 From Battery | Model: | WizFi360-PA (2#) |

| No. | Frequency (MHz) | Reading (dBuV) | Correct Factor (dB) | Results (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 1 | 36.3813 | 30.67 | -14.47 | 16.20 | 40.00 | -23.80 | QP |
| 2 | 66.2660 | 34.28 | -24.19 | 10.09 | 40.00 | -29.91 | QP |
| 3 | 119.8555 | 35.17 | -17.70 | 17.47 | 43.50 | -26.03 | QP |
| 4 | 226.0994 | 33.24 | -18.72 | 14.52 | 46.00 | -31.48 | QP |
| 5 | 545.1825 | 25.88 | -6.89 | 18.99 | 46.00 | -27.01 | QP |
| 6 | 893.8567 | 30.91 | -2.34 | 28.57 | 46.00 | -17.43 | QP |

Remark:
1. All readings are Quasi-Peak.
2. Margin = Result (Result =Reading + Factor )–Limit
3. Factor= Cable Loss +Antenna Factor-Amplifier Gain

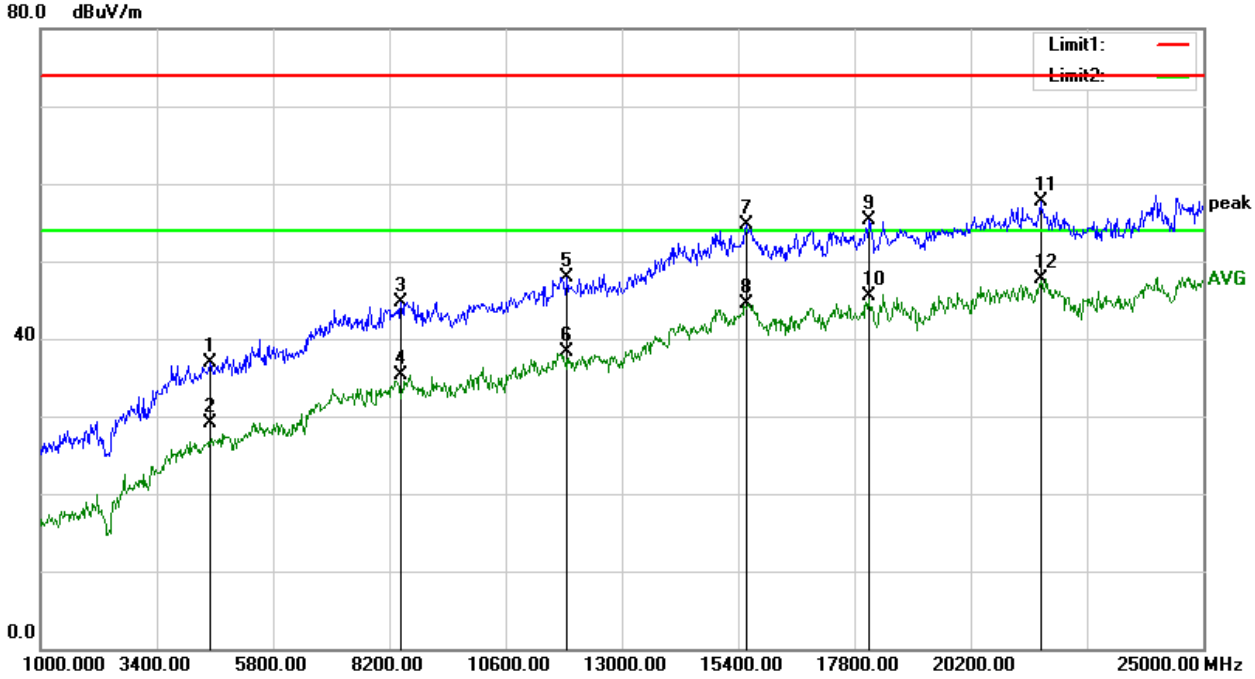


(1 GHz to 25GHz.)

| Temperature: | 27.8 ℃ | Relative Humidity: | 70% |
|---|---|---|---|
| Phase: | Horizontal | Test Mode: | Mode 1 |
| Test Voltage: | DC 3.3 From Battery | Model: | WizFi360-PA (1#) |

| No. | Frequency (MHz) | Reading (dBuV) | Correct Factor (dB) | Result (dBuV) | Limit (dBuV) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| 1 | 4504.000 | 34.44 | 2.48 | 36.92 | 74.00 | -37.08 | Peak |
| 2 | 4504.000 | 26.69 | 2.48 | 29.17 | 54.00 | -24.83 | AVG |
| 3 | 8440.000 | 33.30 | 11.41 | 44.71 | 74.00 | -29.29 | Peak |
| 4 | 8440.000 | 23.94 | 11.41 | 35.35 | 54.00 | -18.65 | AVG |
| 5 | 11872.000 | 9.11 | 38.72 | 47.83 | 74.00 | -26.17 | Peak |
| 6 | 11872.000 | -0.35 | 38.72 | 38.37 | 54.00 | -15.63 | AVG |
| 7 | 15568.000 | 16.30 | 38.44 | 54.74 | 74.00 | -19.26 | Peak |
| 8 | 15568.000 | 6.15 | 38.44 | 44.59 | 54.00 | -9.41 | AVG |
| 9 | 18112.000 | 14.79 | 40.50 | 55.29 | 74.00 | -18.71 | Peak |
| 10 | 18112.000 | 5.10 | 40.50 | 45.60 | 54.00 | -8.40 | AVG |
| 11 | 21640.000 | 17.24 | 40.50 | 57.74 | 74.00 | -16.26 | Peak |
| 12 | 21640.000 | 7.14 | 40.50 | 47.64 | 54.00 | -6.36 | AVG |

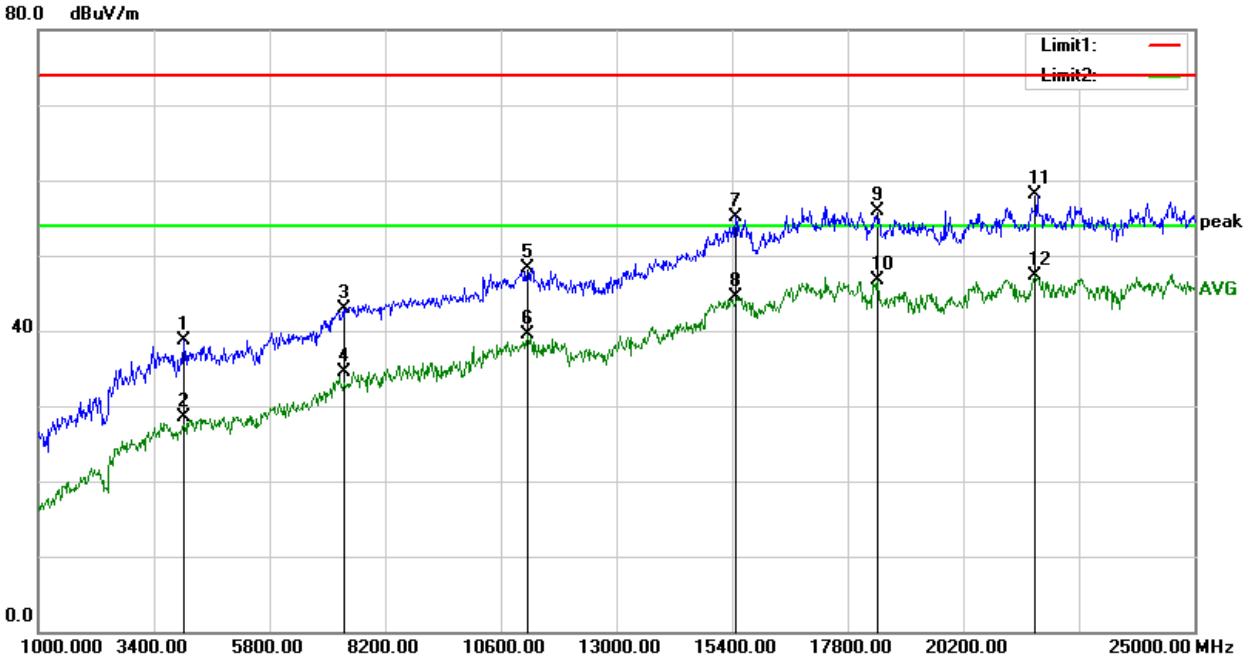
Remark:
1. All readings are Peak and Average values.
2. Margin = Result (Result =Reading + Factor )–Limit
3. Factor= Cable Loss +Antenna Factor-Amplifier Gain



| Temperature: | 27.8 ℃ | Relative Humidity: | 70% |
|---|---|---|---|
| Phase: | Vertical | Test Mode: | Mode 1 |
| Test Voltage: | DC 3.3 From Battery | Model: | WizFi360-PA (1#) |

| No. | Frequency (MHz) | Reading (dBuV) | Correct Factor (dB) | Result (dBuV) | Limit (dBuV) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| 1 | 4024.000 | 37.33 | 1.39 | 38.72 | 74.00 | -35.28 | Peak |
| 2 | 4024.000 | 27.20 | 1.39 | 28.59 | 54.00 | -25.41 | AVG |
| 3 | 7336.000 | 33.21 | 9.70 | 42.91 | 74.00 | -31.09 | Peak |
| 4 | 7336.000 | 24.82 | 9.70 | 34.52 | 54.00 | -19.48 | AVG |
| 5 | 11152.000 | 8.89 | 39.36 | 48.25 | 74.00 | -25.75 | Peak |
| 6 | 11152.000 | 0.12 | 39.36 | 39.48 | 54.00 | -14.52 | AVG |
| 7 | 15472.000 | 16.46 | 38.74 | 55.20 | 74.00 | -18.80 | Peak |
| 8 | 15472.000 | 5.85 | 38.74 | 44.59 | 54.00 | -9.41 | AVG |
| 9 | 18424.000 | 15.38 | 40.50 | 55.88 | 74.00 | -18.12 | Peak |
| 10 | 18424.000 | 6.14 | 40.50 | 46.64 | 54.00 | -7.36 | AVG |
| 11 | 21688.000 | 17.55 | 40.50 | 58.05 | 74.00 | -15.95 | Peak |
| 12 | 21688.000 | 6.79 | 40.50 | 47.29 | 54.00 | -6.71 | AVG |

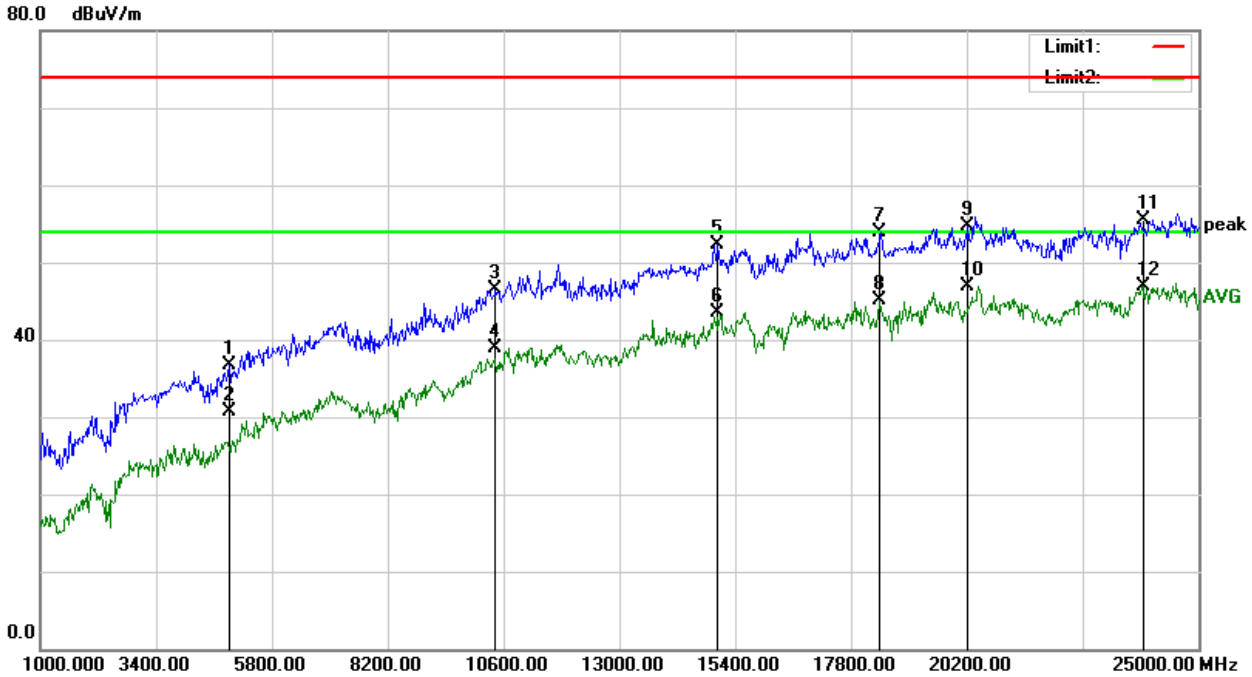
Remark:
1. All readings are Peak and Average values.
2. Margin = Result (Result =Reading + Factor )–Limit
3. Factor= Cable Loss +Antenna Factor-Amplifier Gain



| | | | |
|---|---|---|---|
| Temperature: | 22.4 ℃ | Relative Humidity: | 68% |
| Phase: | Horizontal | Test Mode: | Mode 1 |
| Test Voltage: | DC 3.3 From Battery | Model: | WizFi360-PA (2#) |

| No. | Frequency (MHz) | Reading (dBuV) | Correct Factor (dB) | Result (dBuV) | Limit (dBuV) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| 1 | 4912.000 | 33.36 | 3.35 | 36.71 | 74.00 | -37.29 | Peak |
| 2 | 4912.000 | 27.29 | 3.35 | 30.64 | 54.00 | -23.36 | AVG |
| 3 | 10432.000 | 32.00 | 14.56 | 46.56 | 74.00 | -27.44 | Peak |
| 4 | 10432.000 | 24.39 | 14.56 | 38.95 | 54.00 | -15.05 | AVG |
| 5 | 15040.000 | 12.29 | 40.08 | 52.37 | 74.00 | -21.63 | Peak |
| 6 | 15040.000 | 3.40 | 40.08 | 43.48 | 54.00 | -10.52 | AVG |
| 7 | 18400.000 | 53.92 | 0.00 | 53.92 | 74.00 | -20.08 | Peak |
| 8 | 18400.000 | 45.19 | 0.00 | 45.19 | 54.00 | -8.81 | AVG |
| 9 | 20224.000 | 54.77 | 0.00 | 54.77 | 74.00 | -19.23 | Peak |
| 10 | 20224.000 | 46.86 | 0.00 | 46.86 | 54.00 | -7.14 | AVG |
| 11 | 23848.000 | 55.59 | 0.00 | 55.59 | 74.00 | -18.41 | Peak |
| 12 | 23848.000 | 46.97 | 0.00 | 46.97 | 54.00 | -7.03 | AVG |

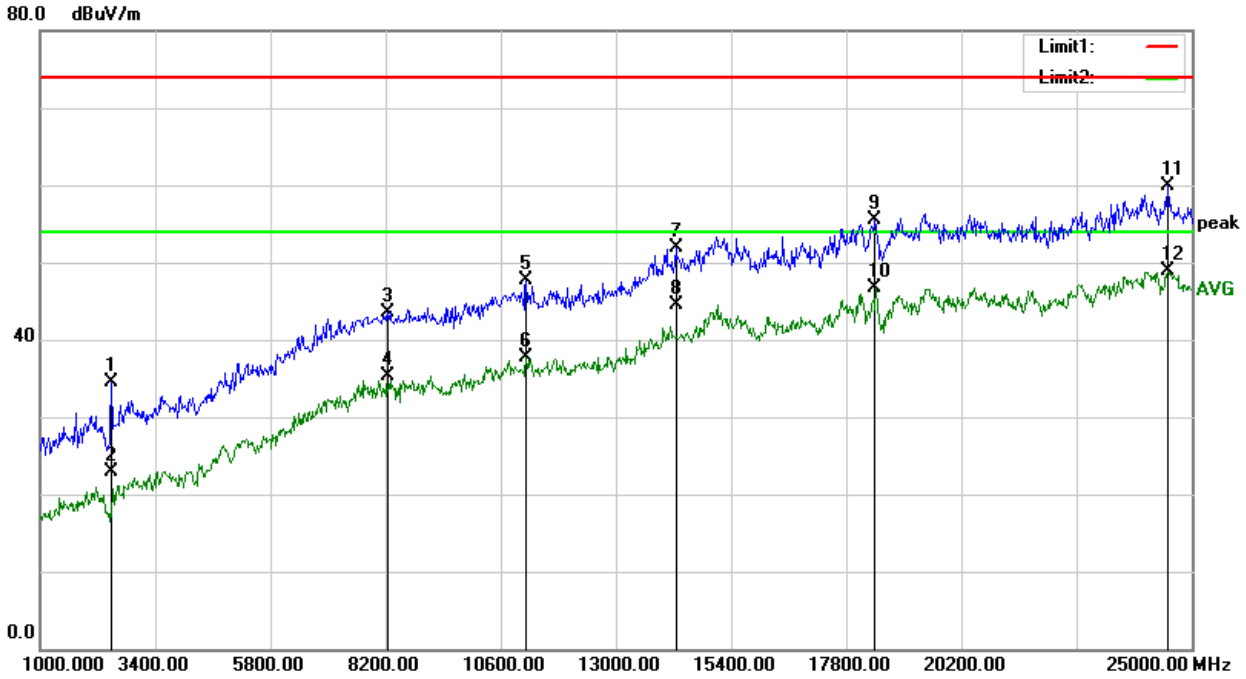
Remark:
1. All readings are Peak and Average values.
2. Margin = Result (Result =Reading + Factor )–Limit
3. Factor= Cable Loss +Antenna Factor-Amplifier Gain



| | | | |
|---|---|---|---|
| Temperature: | 22.4 ℃ | Relative Humidity: | 68% |
| Phase: | Vertical | Test Mode: | Mode 1 |
| Test Voltage: | DC 3.3 From Battery | Model: | WizFi360-PA (2#) |

| No. | Frequency (MHz) | Reading (dBuV) | Correct Factor (dB) | Result (dBuV) | Limit (dBuV) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| 1 | 2488.000 | 37.97 | -3.50 | 34.47 | 74.00 | -39.53 | Peak |
| 2 | 2488.000 | 26.48 | -3.50 | 22.98 | 54.00 | -31.02 | AVG |
| 3 | 8248.000 | 32.38 | 11.16 | 43.54 | 74.00 | -30.46 | Peak |
| 4 | 8248.000 | 24.18 | 11.16 | 35.34 | 54.00 | -18.66 | AVG |
| 5 | 11128.000 | 8.25 | 39.38 | 47.63 | 74.00 | -26.37 | Peak |
| 6 | 11128.000 | -1.68 | 39.38 | 37.70 | 54.00 | -16.30 | AVG |
| 7 | 14248.000 | 10.71 | 41.18 | 51.89 | 74.00 | -22.11 | Peak |
| 8 | 14248.000 | 3.28 | 41.18 | 44.46 | 54.00 | -9.54 | AVG |
| 9 | 18400.000 | 55.41 | 0.00 | 55.41 | 74.00 | -18.59 | Peak |
| 10 | 18400.000 | 46.80 | 0.00 | 46.80 | 54.00 | -7.20 | AVG |
| 11 | 24496.000 | 59.85 | 0.00 | 59.85 | 74.00 | -14.15 | Peak |
| 12 | 24496.000 | 48.85 | 0.00 | 48.85 | 54.00 | -5.15 | AVG |

Remark:
1. All readings are Peak and Average values.
2. Margin = Result (Result =Reading + Factor )–Limit
3. Factor= Cable Loss +Antenna Factor-Amplifier Gain




Notes:

1. Measuring frequencies from 1 GHz to 25GHz.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode of the emission shown in Actual FS column.

# SAMPLE OF THE LABEL

Trade Name

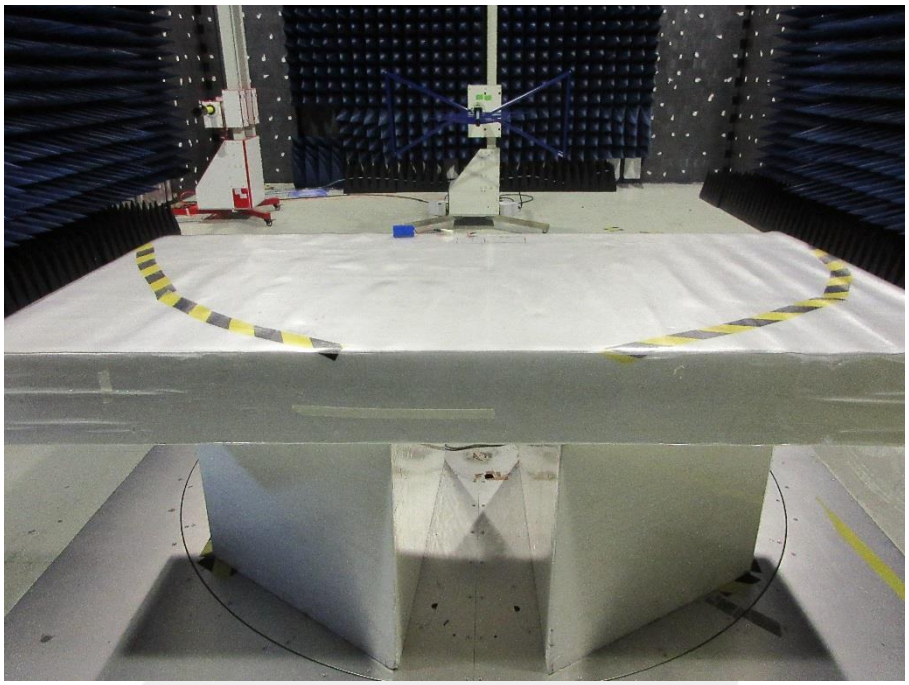
Model Number

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference. And (2) this device must accept any interference received, including interference that may cause undesired operation.

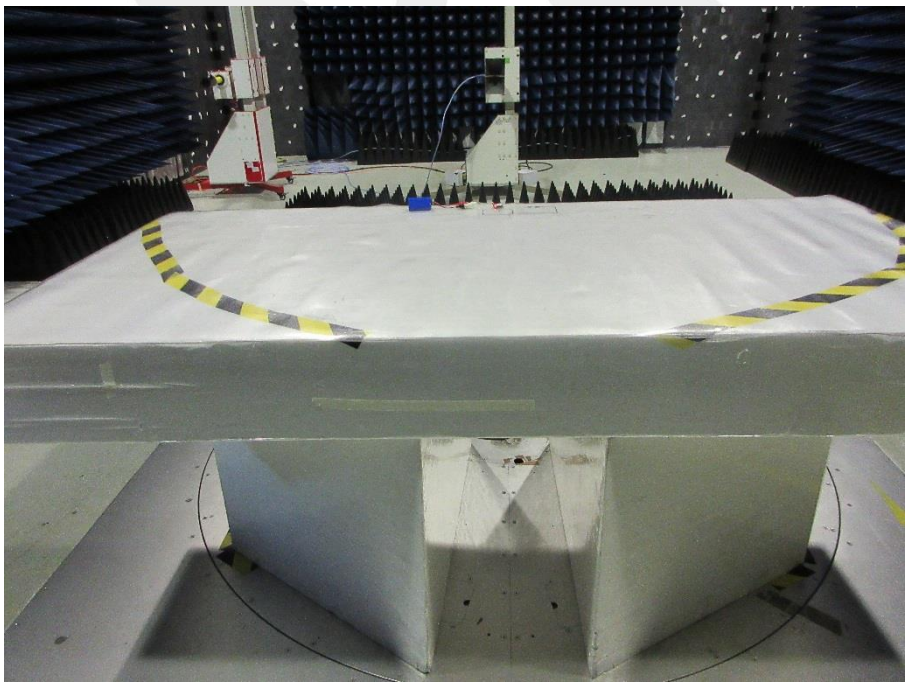
## 4. PHOTOS OF THE TEST SETUP

Radiated Measurement Photo

30MHz- 1GHz



Above 1GHz



※※※※※END OF THE REPORT※※※※※