FCC TEST REPORT

For

Bluetooth Plug-in Switch

Model Number: BT4101

FCC ID: U2ZBT4101

Report Number : WT148004854

Test Laboratory : Shenzhen Academy of Metrology and Quality Inspection

National Digital Electronic Product Testing Center

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Shenzhen, China

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Test report declaration

Applicant : SHEENWAY ASIA LTD.

Address : Room1313, 13/F., AustinTower, 22-26AustinAvenu, TsimSha

Tsui, Kowloon. Hong Kong. China

Manufacturer : KONIG ELECTRONIC (HUIZHOU) LTD.

Address : 2-Plant, East Lake Side, QingTang, Lian He Village, Shui Kou,

Hui Cheng District, Huizhou, GuangDong, China.

Factory : KONIG ELECTRONIC (HUIZHOU) LTD.

Address : 2-Plant, East Lake Side, QingTang, Lian He Village, Shui Kou,

Hui Cheng District, Huizhou, GuangDong, China.

EUT : Bluetooth Plug-in Switch

Description

Model No : BT4101

FCC ID : U2ZBT4101

Test Standards:

FCC Part 15 (October 1, 2014 Edition)

ANSI C63.10: 2009

The EUT described above is tested by Shenzhen Academy of Metrology and Quality Inspection EMC Laboratory to determine the maximum emissions from the EUT. Shenzhen Academy of Metrology and Quality Inspection EMC Laboratory is assumed full responsibility for the accuracy of the test results. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 (2009) and the energy emitted by the sample EUT tested as described in this report is in compliance with FCC Rules Part 15.207, 15.209 and 15.247.

The test report is valid for above tested sample only and shall not be reproduced in part without written approval of the laboratory.

| Project Engineer: | 1933 B | Date: | Jan.20,2015 |
|----------------------|-----------------|-------|-------------|
| | (Chen Qichun) | | |
| Checked by: | 1633年 | Date: | Jan.20,2015 |
| | (Yang Dongping) | | |
| Approved by: | (Yang Dongping) | Date: | Jan.20,2015 |
| | (Lin Bin) | | |

Report No.:WT148004854 Page 2 of 29

TABLE OF CONTENTS

| TEST | REPO | RT DECLARATION | 2 |
|------|-------|--|----|
| 1. | TEST | RESULTS SUMMARY | 5 |
| 2. | GENE | ERAL INFORMATION | 6 |
| | 2.1. | Report information | 6 |
| | 2.2. | Laboratory Accreditation and Relationship to Customer | 6 |
| | 2.3. | Measurement Uncertainty | 7 |
| 3. | PROD | DUCT DESCRIPTION | 8 |
| | 3.1. | EUT Description | 8 |
| | 3.2. | Related Submittal(s) / Grant (s) | 8 |
| | 3.3. | Block Diagram of EUT Configuration | 8 |
| | 3.4. | Operating Condition of EUT | 9 |
| | 3.5. | Support Equipment List | 9 |
| | 3.6. | Test Conditions | 9 |
| | 3.7. | Special Accessories | 9 |
| | 3.8. | Equipment Modifications | 9 |
| 4. | TEST | EQUIPMENT USED | 10 |
| 5. | 6DB E | BANDWIDTH MEASUREMENT | 11 |
| | 5.1. | Limits of 6dB Bandwidth Measurement | 11 |
| | 5.2. | Test Procedure | 11 |
| | 5.3. | Test Setup | 11 |
| | 5.4. | Test Data | 12 |
| 6. | MAXI | MUM PEAK CONDUCTED OUTPUT POWER MEASUREMENT | 13 |
| | 6.1. | Limits of Maximum Peak Conducted Output Power Measurement | 13 |
| | 6.2. | Test Procedure | 13 |
| | 6.3. | Test Data | 13 |
| 7. | MAXI | MUM POWER SPECTRAL DENSITY LEVEL MEASUREMENT | 15 |
| | 7.1. | Limits of Maximum Power Spectral Density Level Measurement | 15 |
| | 7.2. | Test Procedure | 15 |
| | 7.3. | Test Data | 15 |
| 8. | CON | DUCTED BANDEDGE AND SPURIOUS MEASURMENT | 17 |



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| | 8.1. | Limits of Conducted Band Edge and Spurious Measurement | 17 |
|-----|-------|--|----|
| | 8.2. | Test Procedure | 17 |
| | 8.3. | Test Data | 18 |
| 9. | RADI | ATED BAND EDGE AND SPURIOUS MEASUREMENT | 20 |
| | 9.1. | Limits of Radiated Band Edge And Spurious Measurement | 20 |
| | 9.2. | TEST PROCEDURE | 20 |
| | 9.3. | Test Data | 20 |
| 10. | CON | DUCTED EMISSION TEST FOR AC POWER PORT MEASUREMENT | 25 |
| | 10.1. | Test Standard and Limit | 25 |
| | 10.2. | Test Procedure | 25 |
| | 10.3. | Test Arrangement | 25 |
| | 10.4. | Test Data | 26 |
| 11. | ANTE | ENNA REQUIREMENTS | 29 |
| | 11.1. | Applicable requirements | 29 |
| | 11.2. | Antenna Connector | 29 |
| | 11 3 | Antonna Gain | 20 |

1. TEST RESULTS SUMMARY

Table 1 Test Results Summary

| FCC Rules | Test Results |
|----------------|--|
| 15.247 (a) (2) | Pass |
| 15.247 (b) (3) | Pass |
| 15.247 (3) | Pass |
| 15.247 (d) | Pass |
| 15.247 (d) | |
| 15.209 | Pass |
| 15.205 | |
| 15.207 | Pass |
| 15.203 | Pass |
| | 15.247 (a) (2) 15.247 (b) (3) 15.247 (3) 15.247 (d) 15.247 (d) 15.209 15.205 |

Remark: " N/A" means " Not applicable."

Report No.:WT148004854 Page 5 of 29

2. GENERAL INFORMATION

2.1. Report information

- 2.1.1.This report is not a certificate of quality; it only applies to the sample of the specific product/equipment given at the time of its testing. The results are not used to indicate or imply that they are application to the similar items. In addition, such results must not be used to indicate or imply that SMQ approves recommends or endorses the manufacture, supplier or use of such product/equipment, or that SMQ in any way guarantees the later performance of the product/equipment.
- 2.1.2. The sample/s mentioned in this report is/are supplied by Applicant, SMQ therefore assumes no responsibility for the accuracy of information on the brand name, model number, origin of manufacture or any information supplied.
- 2.1.3.Additional copies of the report are available to the Applicant at an additional fee. No third part can obtain a copy of this report through SMQ, unless the applicant has authorized SMQ in writing to do so.

2.2. Laboratory Accreditation and Relationship to Customer

The testing report were performed by the Shenzhen Academy of Metrology and quality Inspection EMC Laboratory (Guangdong EMC compliance testing center), in their facilities located at No.4 TongFa Road, Xili Town, Nanshan District, Shenzhen, China. At the time of testing, Laboratory is accredited by the following organizations:

China National Accreditation Service for Conformity Assessment (CNAS) accredits the Laboratory for conformance to FCC standards, EMC international standards and EN standards. The Registration Number is CNAS L0579.

The Laboratory is listed in the United States of American Federal Communications Commission (FCC), and the registration number are 446246 806614 994606(semi anechoic chamber).

The Laboratory is registered to perform emission tests with Industry Canada (IC), and the registration number is 11177A.

TUV Rhineland accredits the Laboratory for conformance to IEC and EN standards, the registration number is E2024086Z02.

Report No.:WT148004854 Page 6 of 29

2.3. Measurement Uncertainty

Conducted Emission
9kHz~30MHz 3.5dB

Radiated Emission
30MHz~1000MHz 4.5dB
1GHz~25GHz 4.6dB

Report No.:WT148004854 Page 7 of 29

3. PRODUCT DESCRIPTION

3.1.EUT Description

Description : Bluetooth Plug-in Switch

Manufacturer : KONIG ELECTRONIC (HUIZHOU) LTD.

Model Number : BT4101

Rated Input : AC 120V/60Hz
Power supply : AC 120V/60Hz

Operate Frequency : 2.402GHz~2.480GHz

Bluetooth Version : v4.1 LE

Data Rate (Mbps) : 1Mbps

Antenna Designation : PCB antenna (Integrated)

3.2. Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for FCC ID: U2ZBT4101, filing to comply with Section 15.207, 15.209, 15.247 of the FCC Part 15, Subpart C Rules.

3.3. Block Diagram of EUT Configuration



Figure 1 EUT setup

Report No.:WT148004854 Page 8 of 29

3.4. Operating Condition of EUT

Worst-case mode and channel used for power line conducted emissions was the mode and channel with the highest output power.

The fundamental of the EUT was investigated in three orthogonal orientations X,Y,Z, it was determined that X orientation was worst-case orientation; therefore, all final radiated testing was performed with the EUT in X orientation.

Test mode 1: TX, Low channel, 2402MHz

Test mode 2: TX, Middle channel, 2440MHz

Test mode 3: TX, High channel, 2480MHz

Test mode 4: Receive

3.5. Support Equipment List

Table 2 Support Equipment List

| Name | Model No | S/N | Manufacturer | FCC Approval |
|------|----------|-----|--------------|-----------------|
| | | | | |

3.6. Test Conditions

Date of test: Dec.30, 2014-Jan.16, 2015

Date of EUT Receive: Dec.08, 2014

Temperature: 20°C

Relative Humidity: 45-61%

3.7. Special Accessories

Not available for this EUT intended for grant.

3.8. Equipment Modifications

Not available for this EUT intended for grant.

Report No.:WT148004854 Page 9 of 29

4. TEST EQUIPMENT USED

Table 3 Test Equipment

| No. | Equipment | Manufacturer | Model No. | Last Cal. | Cal. |
|-----------|-------------------|-----------------|-----------|--------------|----------|
| INO. | Ечартен | Wandlacturei | Wodel No. | Last Gai. | Interval |
| SB3319 | EMI Test Receiver | Rohde & Schwarz | ESCS30 | Dec.29,2014 | 1 Year |
| SB4357 | AMN | Rohde & Schwarz | ENV216 | Oct.14,2014 | 1 Year |
| SB8501/09 | EMI Test Receiver | Rohde & Schwarz | ESU40 | Mar.28, 2014 | 1 Year |
| SB9060 | Spectrum analyzer | Rohde & Schwarz | FSQ40 | May.13, 2014 | 1 Year |
| SB3955 | Broadband antenna | SCHWARZBECK | VULB9163 | Jan.20, 2014 | 1 Year |
| SB8501/01 | Horn Antenna | Rohde & Schwarz | HF907 | Mar.28, 2014 | 1 Year |
| SB8501/10 | Horn Antenna | Rohde & Schwarz | 3160-09 | Mar.28, 2014 | 3 Years |
| SB8501/12 | Horn Antenna | Rohde & Schwarz | 3160-10 | Mar.28, 2014 | 3 Years |
| SB8501/17 | Preamplifier | Rohde & Schwarz | SCU-18 | Mar.28, 2014 | 1 Year |
| SB8501/16 | Preamplifier | Rohde & Schwarz | SCU-26 | Mar.28, 2014 | 1 Year |
| SB9059 | Preamplifier | Rohde & Schwarz | SCU-40 | May.13, 2014 | 1 Year |

Report No.:WT148004854 Page 10 of 29

5. 6DB BANDWIDTH MEASUREMENT

5.1. Limits of 6dB Bandwidth Measurement

CFR 47 (FCC) part 15.247 (a) (2)

5.2. Test Procedure

Reference to KDB558074 D01 DTS Meas Guidance v03r02,

The transmitter output was connected to the spectrum analyzer.

- a) Set RBW = 100 kHz.
- b) Set the video bandwidth (VBW) \geq 3 x 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.

5.3. Test Setup

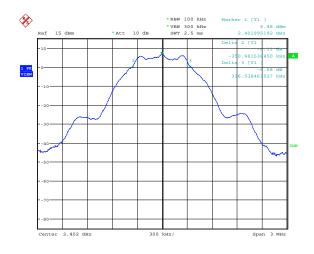


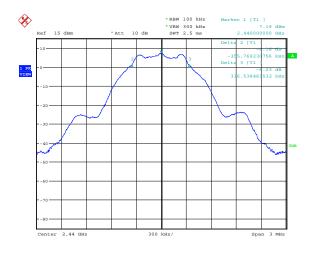
Report No.:WT148004854 Page 11 of 29

5.4. Test Data

Table 4 6dB Bandwidth Test Data

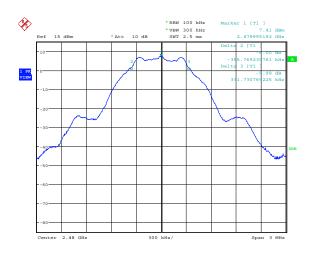
| CHANNEL | 6dB | |
|-----------|-----------|---------|
| FREQUENCY | BANDWIDTH | results |
| (MHz) | (MHz) | |
| 2402MHz | 0.687 | Pass |
| 2440MHz | 0.692 | Pass |
| 2480MHz | 0.687 | Pass |





Date: 15.JAN.2015 15:34:38

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Date: 15.JAN.2015 15:37:45

Report No.:WT148004854 Page 12 of 29

6. MAXIMUM PEAK CONDUCTED OUTPUT POWER MEASUREMENT

6.1. Limits of Maximum Peak Conducted Output Power Measurement

CFR 47 (FCC) part 15.247 (b) (3)

6.2. Test Procedure

Reference to KDB558074 D01 DTS Meas Guidance v03r02,

The transmitter output was connected to the spectrum analyzer.

- a) Set the RBW = 3 MHz
- b) Set the VBW \geq 3 x RBW
- c) Set the span ≥ 3 x RBW
- d) Detector = peak.
- e) Sweep time = auto couple.
- f) Trace mode = max hold.
- g) Allow trace to fully stabilize.
- h) Use peak marker function to determine the peak amplitude level.

6.3. Test Data

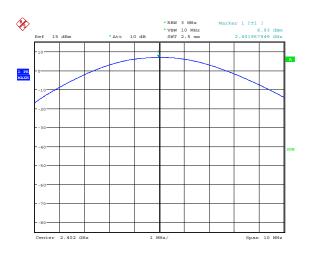
Table 5 Maximum Peak Conducted Output Power Test Data

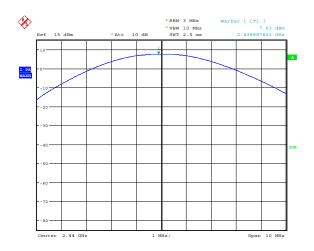
| CHANNEL | | | |
|-----------|---------------------------|-------------|--------|
| FREQUENCY | Meas. Level (Cond.) [dBm] | Limit [dBm] | Result |
| (MHz) | | | |
| 2402MHz | 6.9 | < 30 | Pass |
| 2440MHz | 7.6 | < 30 | Pass |
| 2480MHz | 7.9 | < 30 | Pass |

Report No.:WT148004854 Page 13 of 29

Shenzhen Academy of Metrology & Quality Inspection

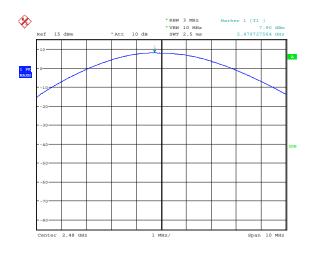
NETC National Digital Electronic Product Testing Center





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Date: 15.JAN.2015 15:43:07

Report No.:WT148004854 Page 14 of 29

7. MAXIMUM POWER SPECTRAL DENSITY LEVEL MEASUREMENT

7.1. Limits of Maximum Power Spectral Density Level Measurement

CFR 47 (FCC) part 15.247 (e)

7.2. Test Procedure

Reference to KDB558074 D01 DTS Meas Guidance v03r02,

The transmitter output was connected to the spectrum analyzer.

- a) Set analyzer center frequency to DTS channel center frequency.
- b) Set the span to 1.5 times the DTS bandwidth.
- c) Set the RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
- d) Set the VBW ≥ 3RBW.
- e) Detector = peak.
- f) Sweep time = auto couple.
- g) Trace mode = max hold.
- h) Allow trace to fully stabilize.
- i) Use the peak marker function to determine the maximum amplitude level within the RBW.
- j) If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

7.3. Test Data

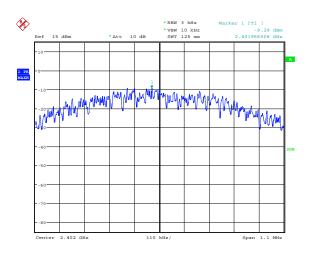
Table 6 Maximum Power Spectral Density Level Test Data

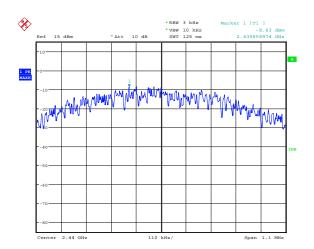
| CHANNEL | | | |
|-----------|-----------|-------------|--------|
| FREQUENCY | PSD [dBm] | Limit [dBm] | Result |
| (MHz) | | | |
| 2402MHz | -9.2 | 8 | Pass |
| 2440MHz | -8.6 | 8 | Pass |
| 2480MHz | -7.9 | 8 | Pass |

Report No.:WT148004854 Page 15 of 29

Shenzhen Academy of Metrology & Quality Inspection

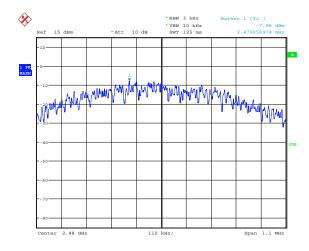
METE National Digital Electronic Product Testing Center





Date: 15.JAN.2015 15:46:19

Date: 15.JAN.2015 15:45:44



Date: 15.JAN.2015 15:44:03

Report No.:WT148004854 Page 16 of 29

8. CONDUCTED BANDEDGE AND SPURIOUS MEASURMENT

8.1. Limits of Conducted Band Edge and Spurious Measurement

CFR 47 (FCC) part 15.247 (d)

8.2. Test Procedure

Reference to KDB558074 D01 DTS Meas Guidance v03r02,

The transmitter output was connected to the spectrum analyzer.

Establish a reference level by using the following procedure:

- a) Set instrument center frequency to DTS channel center frequency.
- b) Set the span to ≥ 1.5 times the DTS bandwidth.
- c) Set the RBW = 100 kHz.
- d) Set the VBW \geq 3 x RBW.
- e) Detector = peak.
- f) Sweep time = auto couple.
- g) Trace mode = max hold.
- h) Allow trace to fully stabilize.
- i) Use the peak marker function to determine the maximum PSD level.

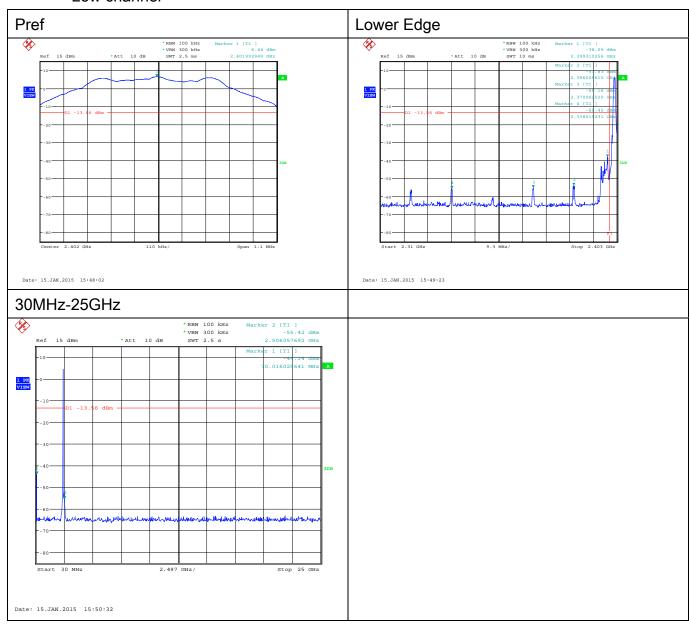
Emission level measurement

- a) Set the center frequency and span to encompass frequency range to be measured.
- b) Set the RBW = 100 kHz.
- c) Set the VBW \geq 3 x RBW.
- d) Detector = peak.
- e) Ensure that the number of measurement points ≥ span/RBW
- f) Sweep time = auto couple.
- g) Trace mode = max hold.
- h) Allow trace to fully stabilize.
- i) Use the peak marker function to determine the maximum amplitude level.

Report No.:WT148004854 Page 17 of 29

8.3. Test Data

Low channel

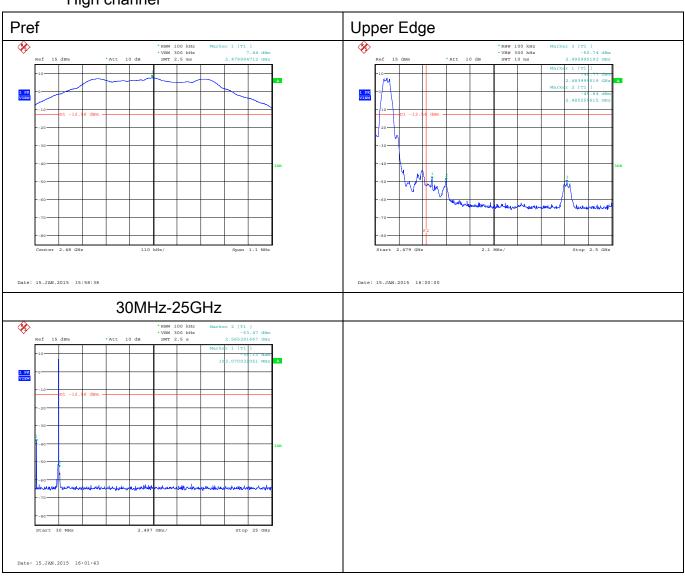


Report No.:WT148004854 Page 18 of 29

Middle channel



High channel



Report No.:WT148004854 Page 19 of 29

9. RADIATED BAND EDGE AND SPURIOUS MEASUREMENT

9.1. Limits of Radiated Band Edge And Spurious Measurement

CFR 47 (FCC) part 15.247 (d)

9.2. TEST PROCEDURE

- 1. The testing follows the guidelines in ANSI C63.10: 2009 and KDB558074 D01 DTS Meas Guidance v03r02.
- 2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level.
- 3. The EUT was placed on a turntable with 0.8 meter above ground.
- 4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
- 5. For measurement below 1GHz, If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.
- 6. Use the following spectrum analyzer settings:
- (1) Span shall wide enough to fully capture the emission being measured;
- (2) Set RBW=100 kHz for f < 1 GHz; VBW >= RBW; Sweep = auto; Detector function = peak; Trace = max hold;
- (3) Set RBW = 1 MHz, VBW= 3MHz for f > 1 GHz for peak measurement.

 Set RBW = 1 MHz, and 1/T (on time) for average measurement. 1/T = 1 / 0.000391s,

 VBW is set to 3kHz.

9.3. Test Data

Report No.:WT148004854 Page 20 of 29

Table 7 Radiated Emission Test Data

Model No.: BT4101

| Test mode: | Test mode: 1 | | | | | | | | |
|--------------------|--------------|------------------------------|-----------------------------|------------------------------|----------------------------------|-----------------------|-------------|--------------|--|
| Frequency (MHz) | Polarization | Correction Factor (dB) | Antenna Factor (dB/m) | Reading Value (dB µ V) | Emission Level dB (µ V/m) | Limits dB (µ V/m) | EUT axes | Note | |
| 4803.495 | Horizontal | -39.4 | 34.0 | 52.4 | 47.0 | 74 | Х | Harmonics PK | |
| 4803.495 | Horizontal | -39.4 | 34.0 | 45.3 | 39.9 | 54 | Х | Harmonics AV | |
| 7206.010 | Horizontal | -38.3 | 35.6 | 56.2 | 53.5 | 74 | Х | Harmonics PK | |
| 7206.010 | Horizontal | -38.3 | 35.6 | 49.4 | 46.7 | 54 | Х | Harmonics AV | |
| 4803.495 | Vertical | -39.4 | 34.0 | 53.2 | 47.8 | 74 | Х | Harmonics PK | |
| 4803.495 | Vertical | -39.4 | 34.0 | 46.3 | 40.9 | 54 | X | Harmonics AV | |
| 7206.012 | Vertical | -38.3 | 35.6 | 55.1 | 52.4 | 74 | Х | Harmonics PK | |
| 7206.012 | Vertical | -38.3 | 35.6 | 46.7 | 44.0 | 54 | Х | Harmonics AV | |

Table 8 Radiated Emission Test Data

Model No.: BT4101

| Test mode: 2 | | | | | | | | |
|--------------------|--------------|------------------------------|-----------------------------|------------------------------|----------------------------------|-----------------------|-------------|-----------------|
| Frequency (MHz) | Polarization | Correction Factor (dB) | Antenna Factor (dB/m) | Reading Value (dB µ V) | Emission Level dB (µ V/m) | Limits dB (µ V/m) | EUT axes | Note |
| 4879.495 | Vertical | -39.4 | 34.0 | 52.5 | 47.1 | 74 | Х | Harmonics PK |
| 4879.495 | Vertical | -39.4 | 34.0 | 44.3 | 38.9 | 54 | Х | Harmonics AV |
| 7320.030 | Vertical | -38.1 | 35.6 | 55.7 | 53.2 | 74 | Х | Harmonics PK |
| 7320.030 | Vertical | -38.1 | 35.6 | 47.0 | 44.5 | 54 | Х | Harmonics AV |
| 4879.495 | Horizontal | -39.4 | 34.0 | 52.5 | 47.1 | 74 | Х | Harmonics PK |
| 4879.495 | Horizontal | -39.4 | 34.0 | 44.1 | 38.7 | 54 | Х | Harmonics AV |
| 7320.031 | Horizontal | -38.1 | 35.6 | 57.5 | 55.0 | 74 | Х | Harmonics PK |
| 7320.031 | Horizontal | -38.1 | 35.6 | 50.9 | 48.4 | 54 | Х | Harmonics AV |

Report No.:WT148004854 Page 21 of 29

Table 9 Radiated Emission Test Data

Model No.: BT4101

| Test mode: | : 3 | | | | | | | |
|--------------------|--------------|------------------------------|-----------------------------|------------------------------|----------------------------------|-----------------------|-------------|-----------------|
| Frequency (MHz) | Polarization | Correction Factor (dB) | Antenna Factor (dB/m) | Reading Value (dB µ V) | Emission Level dB (µ V/m) | Limits dB (µ V/m) | EUT axes | Note |
| 4959.495 | Horizontal | -39.5 | 34.0 | 56.2 | 50.7 | 74 | Х | Harmonics PK |
| 4959.495 | Horizontal | -39.5 | 34.0 | 49.8 | 44.3 | 54 | Х | Harmonics AV |
| 7439.285 | Horizontal | -37.7 | 35.6 | 53.8 | 51.7 | 74 | Х | Harmonics PK |
| 7439.285 | Horizontal | -37.7 | 35.6 | 50.0 | 47.9 | 54 | Х | Harmonics AV |
| 4959.495 | Vertical | -39.5 | 34.0 | 56.6 | 51.1 | 74 | Х | Harmonics PK |
| 4959.495 | Vertical | -39.5 | 34.0 | 50.9 | 45.4 | 54 | Х | Harmonics AV |
| 7439.285 | Vertical | -37.7 | 35.6 | 54.0 | 51.9 | 74 | Х | Harmonics PK |
| 7439.285 | Vertical | -37.7 | 35.6 | 46.5 | 44.4 | 54 | Х | Harmonics AV |

Note: 1. Emission level(dBuV/m)=Reading Value(dBuV) + Correction Factor(dB)+Antenna Factor (dB/m)

Report No.:WT148004854 Page 22 of 29

^{2.} Correction Factor(dB) = Cable Factor (dB)+Amplifier Factor(dB)

^{3.} No other spurious and harmonic emissions were reported greater than listed emissions above table.

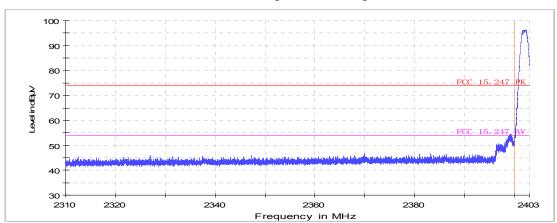
Band Edge

Radiated Emission

EUT Information

EUT Model Name: Operation mode: Test Voltage: Comment: BT4101 TX, Low channel

FCC Electric Field Strength 2.4GHz Bandedge-PK



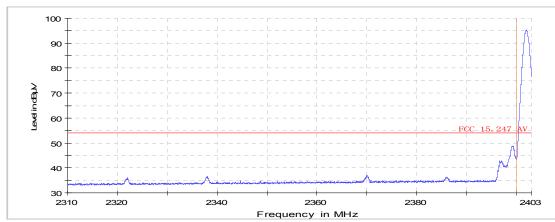
Radiated Emission

EUT Information

EUT Model Name: Operation mode: Test Voltage: Comment: BT4101

TX, Low channel

FCC Electric Field Strength 2.4GHz Bandedge-AV



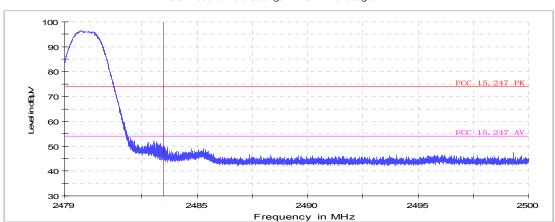
Report No.:WT148004854 Page 23 of 29

Radiated Emission

EUT Information

EUT Model Name: Operation mode: Test Voltage: Comment: BT4101 TX,High channel

FCC Electric Field Strength 2.4GHz Bandedge-PK



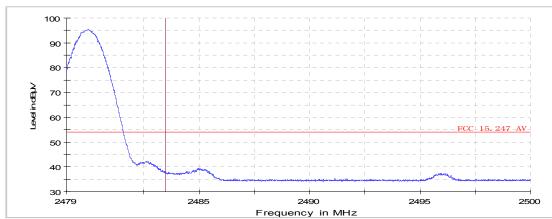
Radiated Emission

EUT Information

EUT Model Name: Operation mode: Test Voltage: Comment: BT4101

TX, High channel

FCC Electric Field Strength 2.4GHz Bandedge-AV



Report No.:WT148004854 Page 24 of 29

10. CONDUCTED EMISSION TEST FOR AC POWER PORT MEASUREMENT

10.1.Test Standard and Limit

10.1.1.Test Standard FCC Part 15 15.207

10.1.2.Test Limit

Table 10 Conducted Disturbance Test Limit

| Frequency | Maximum RF Line Voltage (dBμV) | | | | |
|---------------|--------------------------------|---------------|--|--|--|
| | Quasi-peak Level | Average Level | | | |
| 150kHz~500kHz | 66 ~ 56 * | 56 ~ 46 * | | | |
| 500kHz~5MHz | 56 | 46 | | | |
| 5MHz~30MHz | 60 | 50 | | | |

^{*} Decreasing linearly with logarithm of the frequency

10.2.Test Procedure

The EUT is put on a table of non-conducting material that is 80cm high. The vertical conducting wall of shielding is located 40cm to the rear of the EUT. The power line of the EUT is connected to the AC mains through an Artificial Mains Network (A.M.N.). An EMI test receiver is used to test the emissions from both sides of AC line. According to the requirements in ANSI C63.10: 2009. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-Peak and average detector mode.

The bandwidth of EMI test receiver is set at 9kHz.

10.3.Test Arrangement

The arrangement of the equipment is installed to meet the standards and operating in a manner, which tends to maximize its emission characteristics in a normal application. The detailed information refers to test picture.

Report No.:WT148004854 Page 25 of 29

^{*} The lower limit shall apply at the transition frequency.

10.4.Test Data

The emissions don't show in below are too low against the limits. Refer to the test curves.

Table 11 Conducted Disturbance Test Data

| Model No.: B | Г4101 | | | | | | |
|------------------|------------|--------|--------|--------|---------|---------|----------------|
| Test mode: W | /orst-case | | | | | | |
| | | | Line | | | | |
| Frequency MHz | QP | | AV | | QP | AV | F 4 |
| | Level | Limit | Level | Limit | Reading | Reading | Factor (dB) |
| | (dBuV) | (dBuV) | (dBuV) | (dBuV) | (dBuV) | (dBuV) | |
| 0.158 | 60.6 | 65.6 | 48.1 | 55.6 | 50.9 | 38.4 | 9.7 |
| 0.198 | 60.2 | 63.7 | 49.7 | 53.7 | 50.5 | 40.0 | 9.7 |
| 0.738 | 43.4 | 56 | 38.1 | 46 | 33.6 | 28.3 | 9.8 |
| | | | Neutra | al | | | |
| Frequency MHz | Q | Р | A۱ | / | QP | AV | Fastan |
| | Level | Limit | Level | Limit | Reading | Reading | Factor (dB) |
| | (dBuV) | (dBuV) | (dBuV) | (dBuV) | (dBuV) | (dBuV) | |
| 0.154 | 61.4 | 65.8 | 49.2 | 55.8 | 51.7 | 39.5 | 9.7 |
| 0.198 | 60.3 | 63.7 | 49.7 | 53.7 | 50.6 | 40.0 | 9.7 |
| 0.736 | 43.4 | 56 | 38.1 | 46 | 33.6 | 28.3 | 9.8 |

REMARKS: 1. Emission level(dBuV)=Read Value(dBuV) + Correction Factor(dB)

2. Correction Factor(dB) =LISN Factor (dB) + Cable Factor (dB)+Limiter Factor(dB)

3. The other emission levels were very low against the limit.

Report No.:WT148004854 Page 26 of 29

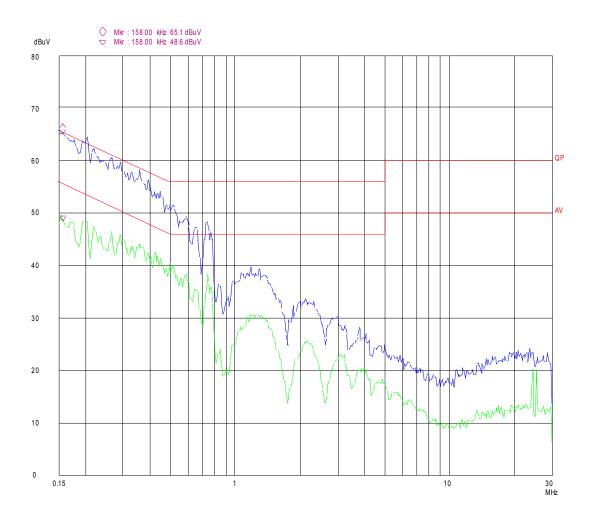
Conducted disturbance

 EUT:
 BT4101

 Op Cond:
 worst-case

 Test Spea
 L

 Comment
 AC120V/60Hz



Report No.:WT148004854 Page 27 of 29

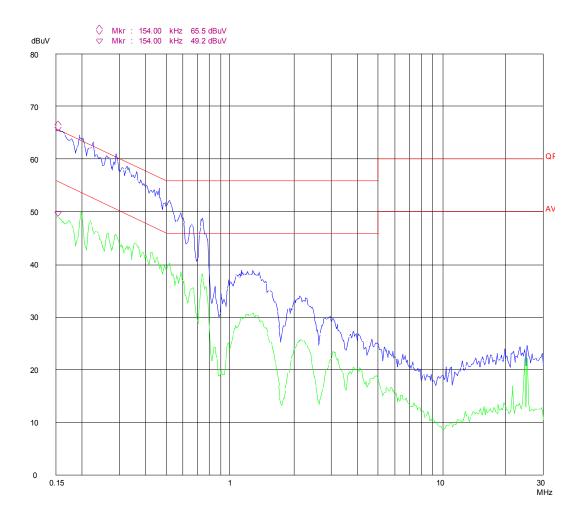
Conducted disturbance

EUT: BT4101

Op Cond: worst-case

Test Spec: N

Comment: AC 120V/60Hz



Report No.:WT148004854 Page 28 of 29

11. ANTENNA REQUIREMENTS

11.1.Applicable requirements

If directional gain of transmitting antennas is greater than 6dBi, the power shall be reduced by the same level in dB comparing to gain minus 6dBi. For the fixed point-to-point operation, the power shall be reduced by one dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the FCC rule.

11.2.Antenna Connector

The EUT has not external antenna connector and built in monopole antenna which is integrated inside the enclosure.

11.3.Antenna Gain

The antenna gain of EUT is less than 6 dBi.

Report No.:WT148004854 Page 29 of 29