Page 1 of 19 Report No.: UNI160812018-E

FCC TEST REPORT

Test report
On Behalf of
ShenZhen Egtong Technology Ltd.
For

Bluetooth In-Car MP3

Model No.: T10, T11, T12, T13, T18, T19, T26, KM18, KM19, KM20

FCC ID: 2ACE4-AGETUNR666

Prepared for: ShenZhen Egtong Technology Ltd.

F3, Building B, Run Tong Industrial Park, Sili Road No. 87, Longhua New District,

Shenzhen City.

Prepared By: Laboratory of Shenzhen United Testing Technology Co., Ltd

Room 316-319, Block B, Honghualing Industrial Park of the Fifth Zone, Taoyuan

Street, Nanshan District, Shenzhen, Guangdong, China

Date of Test: August. 12, 2016 ~ August. 15, 2016

Date of Report: August. 15, 2016
Report Number: UNI160812018-E

Report No.: UNI160812018-E

TEST RESULT CERTIFICATION

| Applicant's name: | | | | | | | |
|--|---|---|--|--|--|--|--|
| Address: | F3, Buildi Longhua | ng B, Run Tong Industrial Park, Sili Road No. 87, New District, Shenzhen City. | | | | | |
| Manufacture's Name: | _ | • | | | | | |
| Address: | F3, Building B, Run Tong Industrial Park, Sili Road No. 87, Longhua New District, Shenzhen City. | | | | | | |
| Product description | | | | | | | |
| Trade Mark: | N/A | | | | | | |
| Product name: | Bluetooth | In-Car MP3 | | | | | |
| Model and/or type reference : | T10, T11, | T12, T13, T18, T19, T26, KM18, KM19, KM20 | | | | | |
| Standards: | FCC Rules and Regulations Part 15 Subpart C Section 15.239 ANSI C63.10: 2013 | | | | | | |
| the Laboratory of Shenzhen Un owner and source of the mate takes no responsibility for and | nited Testinerial. Labo will not as material d | nole or in part for non-commercial purposes as long as ng Technology Co., Ltd is acknowledged as copyright ratory of Shenzhen United Testing Technology Co., Ltd sume liability for damages resulting from the reader's ue to its placement and context. August. 12, 2016 ~ August. 15, 2016 August. 15, 2016 Pass | | | | | |
| Testing Engine | eer : | (Eric Xie) | | | | | |
| Technical Man | ager : | DOPA Q'IN (Dora Qin) | | | | | |

(Kait Chen)

Authorized Signatory:

| Table of Contents | Page |
|---|------|
| 1. TEST SUMMARY | 4 |
| 2 . GENERAL INFORMATION | 5 |
| 2.1 GENERAL DESCRIPTION OF EUT | 5 |
| Operation of EUT during testing | 6 |
| 2.2 DESCRIPTION OF TEST SETUP | 6 |
| 2.3 MEASUREMENT INSTRUMENTS LIST | 7 |
| 3. CONDUCTED EMISSIONS TEST | 8 |
| 3.1 Conducted Power Line Emission Limit | 8 |
| 3.2 Test Setup | 8 |
| 3.3 Test Procedure | 8 |
| 3.4 Test Result | 8 |
| 4 RADIATED EMISSION TEST | 9 |
| 4.1 Radiation Limit | 9 |
| 4.2 Test Setup | 9 |
| 4.3 Test Procedure | 10 |
| 4.4 Test Result | 10 |
| 5 BAND EDGE | 14 |
| 5.1 Limits | 14 |
| 5.2 Test Procedure | 14 |
| 5.3 Test Result | 14 |
| 6 OCCUPIED BANDWIDTH MEASUREMENT | 16 |
| 6.1 Test Setup | 16 |
| 6.2 Test Procedure | 16 |
| 6.3 Measurement Equipment Used | 16 |
| 6.4 Test Result | 16 |
| 7 ANTENNA REQUIREMENT | 18 |
| 8 PHOTOGRAPH OF TEST | 19 |
| 8.1 Radiated Emission | 19 |

Page 4 of 19 Report No.: UNI160812018-E

1. TEST SUMMARY

1.1 TEST PROCEDURES AND RESULTS

DESCRIPTION OF TEST

CONDUCTED EMISSIONS TEST

RADIATED EMISSION TEST

BAND EDGE

OCCUPIED BANDWIDTH MEASUREMENT

ANTENNA REQUIREMENT

RESULT

N/A

COMPLIANT

COMPLIANT

COMPLIANT

COMPLIANT

1.2 TEST FACILITY

Test Firm : Dongguan Dongdian Testing Service Co., Ltd

Certificated by FCC, Registration No.: 270092

Address No.17 Zongbu road 2, Songshan Lake Sci&Tech Park, DongGuan

City, Guangdong province,523808 China

1.3 MEASUREMENT UNCERTAINTY

Measurement Uncertainty

Conducted Emission Expanded Uncertainty = 2.23dB, k=2 Radiated emission expanded uncertainty(9kHz-30MHz) = 3.08dB, k=2 Radiated emission expanded uncertainty(30MHz-1000MHz) = 4.42dB, k=2 Radiated emission expanded uncertainty(Above 1GHz) = 4.06dB, k=2

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

| Equipment | Bluetooth In-Car MP3 |
|------------------------|--|
| Model Name | T10 |
| Serial No | T11, T12, T13, T18, T19, T26, KM18, KM19, KM20 |
| Model Difference | All model's the function, software and electric circuit are the same, only with a product color and model named different. Test sample model: T10. |
| FCC ID | 2ACE4-AGETUNR666 |
| Antenna Type | PCB Antenna |
| Antenna Gain | 0dBi |
| BT Operation frequency | 2402-2480MHz |
| Number of Channels | 79CH |
| Modulation Type | GFSK |
| Power Source | DC Voltage |
| Power Rating | DC 12V for battery |

| Equipment | Bluetooth In-Car MP3 |
|---------------------|--|
| Model Name | T10 |
| Serial No | T11, T12, T13, T18, T19, T26, KM18, KM19, KM20 |
| Model Difference | All model's the function, software and electric circuit are the same, only with a product color and model named different. Test sample model: T10. |
| FCC ID | 2ACE4-AGETUNR666 |
| Antenna Type | Integral Antenna |
| Antenna Gain | 0dBi |
| Operation frequency | 88.1-107.9MHz |
| Number of Channels | 199CH |
| Modulation Type | FM |
| Power Source | DC Voltage |
| Power Rating | DC 12V for battery |

Note: This report only FM test report, BT transmitter see the other test report.

2.1.1 Carrier Frequency of Channels

| Channel List | | | | | | | | |
|--------------|--------------------|---------|--------------------|---------|--------------------|--|--|--|
| Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) | | | |
| 00 | 88.1 | 95 | 97.3 | 189 | 106.9 | | | |
| 01 | 88.2 | 96 | 97.4 | 190 | 107.0 | | | |
| 02 | 88.3 | 97 | 97.5 | 191 | 107.1 | | | |
| 03 | 88.4 | 98 | 97.6 | 192 | 107.2 | | | |
| 04 | 88.5 | 99 | 97.9 | 193 | 107.3 | | | |
| 05 | 88.6 | 100 | 98.0 | 194 | 107.4 | | | |
| 06 | 88.7 | 101 | 98.1 | 195 | 107.5 | | | |
| 07 | 88.8 | 102 | 98.2 | 196 | 107.6 | | | |
| 08 | 88.9 | 103 | 98.3 | 197 | 107.7 | | | |
| 09 | 89.0 | 104 | 98.4 | 198 | 107.8 | | | |
| 10 | 89.1 | 105 | 98.5 | 199 | 107.9 | | | |
| | | | | | | | | |

Operation of EUT during testing

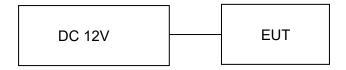
Operating Mode

The mode is used: Transmitting mode

Low Channel: 88.1MHz Middle Channel: 98.1MHz High Channel: 107.9MHz

2.2 DESCRIPTION OF TEST SETUP

Operation of EUT during testing



2.3 MEASUREMENT INSTRUMENTS LIST

| Item | Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal. Interval |
|------|--------------------------|--------------|------------------|------------------|---------------|---------------|
| 1. | Spectrum Analyzer | Agilent | E4407B | MY451080 40 | May. 06, 2016 | 1 Year |
| 2. | Test Receiver | R&S | ESCI | 101318 | May. 06, 2016 | 1 Year |
| 3. | Bilog Antenna | TESEQ | CBL6111D | 31216 | May. 22, 2016 | 1 Year |
| 4. | 50Ω Coaxial Switch | Anritsu | MP59B | 620026441 6 | N/A | N/A |
| 5. | Spectrum Analyzer | ADVANTEST | R3132 | 150900201 | May. 06, 2016 | 1 Year |
| 6. | Horn Antenna | EM | EM-AH-1018 0 | 201107140 2 | May. 22, 2016 | 1 Year |
| 7. | Horn Ant | Schwarzbeck | BBHA 9170 | 9170-181 | May. 22, 2016 | 1 Year |
| 8. | Amplifier | EM | EM-30180 | 060538 | May. 06, 2016 | N/A |
| 9. | Loop Antenna | ARA | PLA-1030/B | 1029 | May. 22, 2016 | 1 Year |
| 10. | Power Meter | R&S | NRVS | 100696 | May. 06, 2016 | 1 Year |
| 11. | Power Sensor | R&S | URV5-Z4 | 0395.1619. 05 | May. 06, 2016 | 1 Year |
| 12. | Cable | Resenberger | SUCOFLEX 104 | 314683/2 | May. 06, 2016 | N/A |
| 13. | Cable | Resenberger | SUCOFLEX 104 | 325762/2 | May. 06, 2016 | 1 Year |
| 14. | Test Receiver | R&S | ESCI | 101160 | May. 06, 2016 | 1 Year |
| 15. | LISN | R&S | ENV216 | 101313 | May. 06, 2016 | 1 Year |
| 16. | LISN | EMCO | 3816/2 | 000429 90 | May. 06, 2016 | 1 Year |
| 17. | 50Ω Coaxial Switch | Anritsu | MP59B | 620026 4417 | N/A | N/A |
| 18. | Passive Voltage Probe | R&S | ESH2-Z3 | 100196 | May. 06, 2016 | 1 Year |
| 19. | Absorbing clamp | R&S | MOS-21 | 100423 | May. 06, 2016 | 1 Year |
| 20. | Cable | Resenberger | SUCOFL EX 104 | 314296 /2 | May. 06, 2016 | 1 Year |
| 21. | Spectrum analyzer | Agilent | N9020A | MY499110 032 | May. 06, 2016 | 1 Year |

3. CONDUCTED EMISSIONS TEST

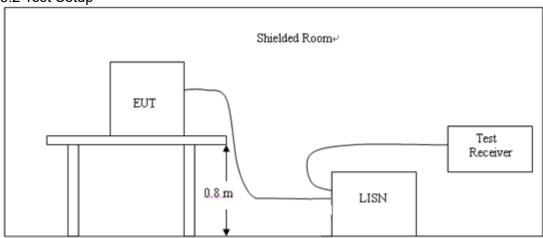
3.1 Conducted Power Line Emission Limit

For unintentional device, according to § 15.107(a) Line Conducted Emission Limits is as following

| Eroguenev | Maximum RF Line Voltage (dBμV) | | | | |
|--------------------|--------------------------------|------|---------|--------|--|
| Frequency (MHz) | CLAS | SS A | CLASS B | | |
| (11112) | Q.P. | Ave. | Q.P. | Ave. | |
| 0.15 - 0.50 | 79 | 66 | 66-56* | 56-46* | |
| 0.50 - 5.00 | 73 | 60 | 56 | 46 | |
| 5.00 - 30.0 | 73 | 60 | 60 | 50 | |

* Decreasing linearly with the logarithm of the frequency
For intentional device, according to §15.207(a) Line Conducted Emission Limit is same as above table.

3.2 Test Setup



3.3 Test Procedure

- 1, The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. The EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10.
- 2, Support equipment, if needed, was placed as per ANSI C63.10.
- 3, All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
- 4, If a EUT received DC power from the USB Port of Notebook PC, the PC's adapter received AC120V/60Hz power through a Line Impedance Stabilization Network (LISN) which supplied power source and was grounded to the ground plane.
- 5, All support equipments received AC power from a second LISN, if any.
- 6, The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- 7, Analyzer / Receiver scanned from 150 KHz to 30MHz for emissions in each of the test modes.

3.4 Test Result

Not applicable.

Note: EUT power supply by battery, so this test not applicable.

4 RADIATED EMISSION TEST

4.1 Radiation Limit

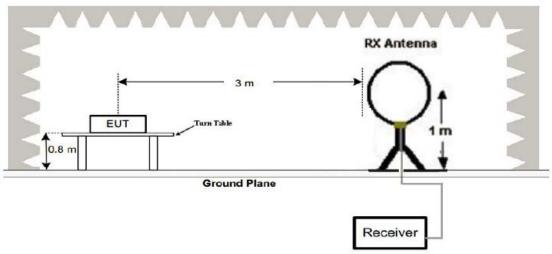
For unintentional device, according to § 15.109(a), except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

| Frequency | Distance | Radiated | Radiated |
|-----------|----------|----------|----------|
| (MHz) | (Meters) | (dBµV/m) | (µV/m) |
| 30-88 | 3 | 40 | 100 |
| 88-216 | 3 | 43.5 | 150 |
| 216-960 | 3 | 46 | 200 |
| Above 960 | 3 | 54 | 500 |

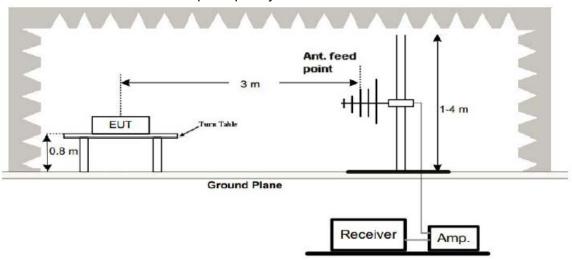
For intentional device, according to § 15.209(a), the general requirement of field strength of radiated emissions from intentional radiators at a distance of 3 meters shall not exceed the above table.

4.2 Test Setup

(1) Radiated Emission Test-Up Frequency Below 30MHz

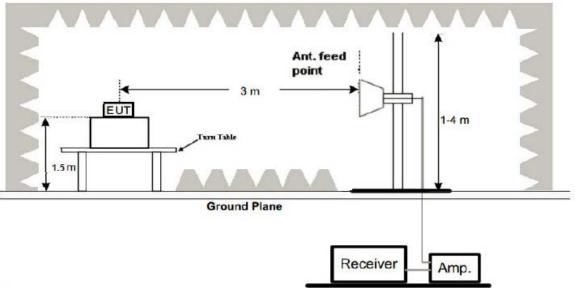


(2) Radiated Emission Test-Up Frequency 30MHz~1GHz



Page 10 of 19 Report No.: UNI160812018-E

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



4.3 Test Procedure

- 1. Below 1GHz measurement the EUT is placed on turntable which is 0.8m above ground plane. And above 1GHz measurement EUT was placed on low permittivity and low tangent turn table which is 1.5m above ground plane.
- 2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
- 3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emissions.
- 4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- 6. Repeat above procedures until the measurements for all frequencies are complete.
- 7. The test frequency range from 9KHz to 25GHz per FCC PART 15.33(a).

Note:

For battery operated equipment, the equipment tests shall be performed using a new battery.

4.4 Test Result

PASS

All the test modes completed for test.

CH Low (88.1MHz): Antenna polarity: H

| Frequency | Meter Reading | Factor | Emission Level | Limits | Margin | Detector Type |
|-----------|---------------|--------|-------------------|----------|--------|---------------|
| (MHz) | (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | |
| 88.1 | 74.53 | -16.28 | 58.25 | 68 | -9.75 | peak |
| 88.1 | 56.45 | -16.28 | 40.17 | 48 | -7.83 | AVG |
| 73.65 | 43.96 | -16.32 | 27.64 | 40 | -12.36 | peak |
| 279.29 | 46.74 | -14.22 | 32.52 | 46 | -13.48 | peak |
| 408.30 | 43.68 | -11.49 | 32.19 | 46 | -13.81 | peak |
| 651.77 | 38.74 | -7.53 | 31.21 | 46 | -14.79 | peak |
| | | | | | | |
| | | | | | | |

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Antenna polarity: V

| Frequency | Meter Reading | Factor | Emission Level | Limits | Margin | Detector Type |
|-----------|---------------|--------|-------------------|----------|--------|---------------|
| (MHz) | (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | |
| 88.1 | 72.53 | -16.28 | 56.25 | 68 | -11.75 | peak |
| 88.1 | 53.34 | -16.28 | 37.06 | 48 | -10.94 | AVG |
| 70.74 | 44.67 | -16.09 | 28.58 | 40 | -11.42 | peak |
| 268.62 | 46.71 | -14.35 | 32.36 | 46 | -13.64 | peak |
| 568.35 | 39.80 | -8.59 | 31.21 | 46 | -14.79 | peak |
| 635.28 | 40.97 | -7.65 | 33.32 | 46 | -12.68 | peak |
| | | | | | | |
| | | | | | | |

Remark: Factor = Antenna Factor + Cable Loss - Pre-amplifier.

Remark:

- (1) Measuring frequencies from 9 KHz to the 1 GHz, Radiated emission test from 9KHz to 30MHz was verified, and no any emission was found except system noise floor.
- (2) * denotes emission frequency which appearing within the Restricted Bands specified in provision of 15.205, then the general radiated emission limits in 15.209 apply.
- (3) The IF bandwidth of EMI Test Receiver between 30MHz to 1GHz was 120KHz, 1 MHz for measuring above 1 GHz, below 30MHz was 10KHz.

CH Low (98.1MHz): Antenna polarity: H

| Frequency | Meter Reading | Factor | Emission Level | Limits | Margin | Detector Type |
|-----------|---------------|--------|-------------------|----------|--------|---------------|
| (MHz) | (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | |
| 98.1 | 73.71 | -16.17 | 57.54 | 68 | -10.46 | peak |
| 98.1 | 56.64 | -16.17 | 40.47 | 48 | -7.53 | AVG |
| 73.65 | 42.74 | -16.32 | 26.42 | 40 | -13.58 | peak |
| 279.29 | 45.79 | -14.22 | 31.57 | 46 | -14.43 | peak |
| 408.30 | 44.58 | -11.49 | 33.09 | 46 | -12.91 | peak |
| 651.77 | 39.78 | -7.53 | 32.25 | 46 | -13.75 | peak |
| | | | | | | |
| | | | | | | |

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Antenna polarity: V

| Frequency | Meter Reading | Factor | Emission Level | Limits | Margin | Detector Type |
|-----------|---------------|--------|-------------------|----------|--------|---------------|
| (MHz) | (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | |
| 98.1 | 71.24 | -16.17 | 55.07 | 68 | -12.93 | peak |
| 98.1 | 53.74 | -16.17 | 37.57 | 48 | -10.43 | AVG |
| 70.74 | 43.20 | -16.09 | 27.11 | 40 | -12.89 | peak |
| 268.62 | 46.76 | -14.35 | 32.41 | 46 | -13.59 | peak |
| 568.35 | 38.87 | -8.59 | 30.28 | 46 | -15.72 | peak |
| 635.28 | 38.49 | -7.65 | 30.84 | 46 | -15.16 | peak |
| | | | | | | |
| | | | | | | |

Remark: Factor = Antenna Factor + Cable Loss - Pre-amplifier.

Remark:

- (1) Measuring frequencies from 9 KHz to the 1 GHz, Radiated emission test from 9KHz to 30MHz was verified, and no any emission was found except system noise floor.
- (2) * denotes emission frequency which appearing within the Restricted Bands specified in provision of 15.205, then the general radiated emission limits in 15.209 apply.
- (3) The IF bandwidth of EMI Test Receiver between 30MHz to 1GHz was 120KHz, 1 MHz for measuring above 1 GHz, below 30MHz was 10KHz.

CH Low (107.9MHz): Antenna polarity: H

| Frequency | Meter Reading | Factor | Emission Level | Limits | Margin | Detector Type |
|-----------|---------------|--------|-------------------|----------|--------|---------------|
| (MHz) | (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | |
| 107.9 | 75.28 | -16.03 | 59.25 | 68 | -8.75 | peak |
| 107.9 | 58.60 | -16.03 | 42.57 | 48 | -5.43 | AVG |
| 73.65 | 44.24 | -16.32 | 27.92 | 40 | -12.08 | peak |
| 279.29 | 46.65 | -14.22 | 32.43 | 46 | -13.57 | peak |
| 408.30 | 43.53 | -11.49 | 32.04 | 46 | -13.96 | peak |
| 651.77 | 39.36 | -7.53 | 31.83 | 46 | -14.17 | peak |
| | | | | | | |
| | | | | | | |

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Antenna polarity: V

| Frequency | Meter Reading | Factor | Emission Level | Limits | Margin | Detector Type |
|-----------|---------------|--------|-------------------|----------|--------|---------------|
| (MHz) | (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | |
| 107.9 | 73.82 | -16.03 | 57.79 | 68 | -10.21 | peak |
| 107.9 | 55.89 | -16.03 | 39.86 | 48 | -8.14 | AVG |
| 70.74 | 42.73 | -16.09 | 26.64 | 40 | -13.36 | peak |
| 268.62 | 45.82 | -14.35 | 31.47 | 46 | -14.53 | peak |
| 568.35 | 40.87 | -8.59 | 32.28 | 46 | -13.72 | peak |
| 635.28 | 40.94 | -7.65 | 33.29 | 46 | -12.71 | peak |
| | | | | | | |
| | | | | | | |

Remark: Factor = Antenna Factor + Cable Loss - Pre-amplifier.

Remark:

- (1) Measuring frequencies from 9 KHz to the 1 GHz, Radiated emission test from 9KHz to 30MHz was verified, and no any emission was found except system noise floor.
- (2) * denotes emission frequency which appearing within the Restricted Bands specified in provision of 15.205, then the general radiated emission limits in 15.209 apply.
- (3) The IF bandwidth of EMI Test Receiver between 30MHz to 1GHz was 120KHz, 1 MHz for measuring above 1 GHz, below 30MHz was 10KHz.

Page 14 of 19 Report No.: UNI160812018-E

5 BAND EDGE

5.1 Limits

FCC PART 15.249(d) Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

5.2 Test Procedure

The band edge compliance of RF radiated emission should be measured by following the guidance in ANSI C63.10 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 to 100KHz and VBM to 300KHz to measure the peak field strength and set RBW to 1MHz and VBW to 10Hz to measure the average radiated field strength. The conducted RF band edge was measured by using a spectrum analyzer. Set span wide enough to capture the highest in-band emission and the emission at the band edge. Set RBW to 100 KHz and VBW to 300 KHz, to measure the conducted peak band edge.

5.3 Test Result

PASS

Radiated Band Edge Test:

Operation Mode: TX CH Low (88.1MHz)

Horizontal

| Frequency | Meter Reading | Factor | Emission Level | Limits | Margin | Detector Type |
|-----------|---------------|--------|-------------------|----------|--------|---------------|
| (MHz) | (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | |
| 75.2 | 47.34 | -16.09 | 31.25 | 40 | -8.75 | peak |
| 75.2 | 1 | -16.09 | 1 | 1 | 1 | AVG |
| 88 | 46.86 | -16.28 | 30.58 | 40 | -9.42 | peak |
| 88 | 1 | -16.28 | 1 | 1 | 1 | AVG |

Remark: Factor = Antenna Factor + Cable Loss - Pre-amplifier.

Vertical:

| Frequency | Meter Reading | Factor | Emission Level | Limits | Margin | Detector Type |
|-----------|---------------|--------|-------------------|----------|--------|---------------|
| (MHz) | (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | |
| 75.2 | 47.22 | -16.09 | 31.13 | 40 | -8.87 | peak |
| 75.2 | 1 | -16.09 | 1 | 1 | 1 | AVG |
| 88 | 47.32 | -16.28 | 31.04 | 40 | -8.96 | peak |
| 88 | 1 | -16.28 | 1 | 1 | 1 | AVG |

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Operation Mode: TX CH High (107.9MHz) Horizontal

| Frequency | Meter Reading | Factor | Emission Level | Limits | Margin | Detector Type |
|-----------|---------------|--------|-------------------|----------|--------|---------------|
| (MHz) | (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | |
| 108 | 49.39 | -16.03 | 33.36 | 43.5 | -10.14 | peak |
| 108 | 1 | -16.03 | 1 | 43.5 | 1 | AVG |

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Vertical:

| Frequency | Meter Reading | Factor | Emission Level | Limits | Margin | Detector Type |
|-----------|---------------|--------|-------------------|----------|--------|---------------|
| (MHz) | (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | |
| 108 | 48.21 | -16.03 | 32.18 | 43.5 | -11.32 | peak |
| 108 | 1 | -16.03 | 1 | 43.5 | 1 | AVG |

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Remark: All the other emissions not reported were too low to read and deemed to comply with

FCC limit.

6 OCCUPIED BANDWIDTH MEASUREMENT

6.1 Test Setup

Same as Radiated Emission Measurement

6.2 Test Procedure

- 1. The EUT was placed on a turn table which is 0.8m above ground plane.
- 2. Set EUT as normal operation.
- 3. Based on FCC Part15 C Section 15.239(a): RBW= 10KHz. VBW= 30 KHz, Span=1MHz.
- 4. The useful radiated emission from the EUT was detected by the spectrum analyser with peak detector.

6.3 Measurement Equipment Used

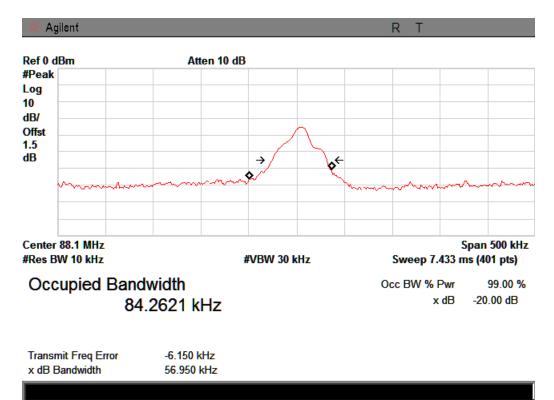
Same as Radiated Emission Measurement

6.4 Test Result

PASS

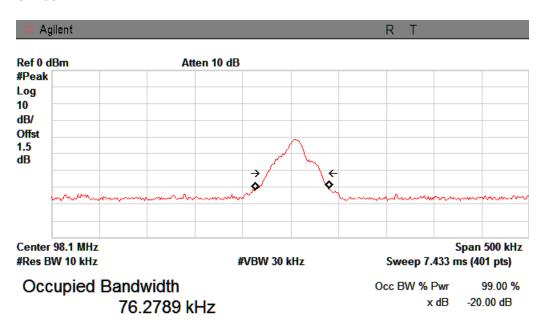
| Frequency | 20dB Bandwidth (kHz) | Result |
|-----------|-------------------------|--------|
| 88.1 MHz | 56.950 | PASS |
| 98.1 MHz | 55.880 | PASS |
| 107.9 MHz | 56.001 | PASS |

CH: 88.1MHz



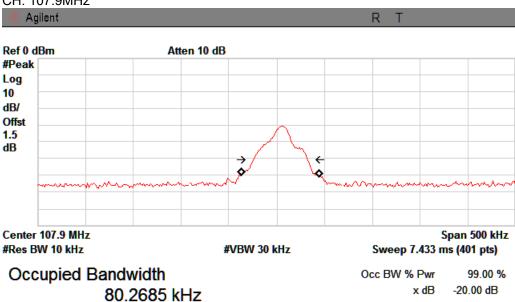
Page 17 of 19 Report No.: UNI160812018-E

CH: 98.1MHz



Transmit Freq Error 1.360 kHz x dB Bandwidth 55.880 kHz

CH: 107.9MHz



Transmit Freq Error 3.607 kHz x dB Bandwidth 56.001 kHz

Page 18 of 19 Report No.: UNI160812018-E

7 ANTENNA REQUIREMENT

Standard Applicable

For intentional device, according to FCC 47 CFR Section 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. And according to FCC 47 CFR Section 15.249, if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

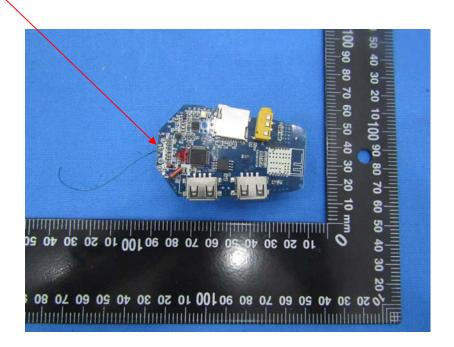
Refer to statement below for compliance.

The manufacturer may design the unit so that the user can replace a broken antenna, but the use of a standard antenna jack or electrical connector is prohibited. Further, this requirement does not apply to intentional radiators that must be professionally installed.

Antenna Connected Construction

The antenna used in this product is a Integral Antenna, The directional gains of antenna used for transmitting is 0dBi.

ANTENNA



8 PHOTOGRAPH OF TEST

8.1 Radiated Emission

