FCC TEST REPORT FCC ID: 2A5JB-HU10

| Report Number | | | | |
|--|--|---|--|--|
| Date of issue Mar. 08, 2022 Total number of pages 32 Test Result PASS Testing Laboratory Shenzhen ZKT Technology Co., Ltd. Address 1/F, No. 101, Building B, No. 6, Tangwei Community Industrial Avenue, Fuhai Street, Bao'an District, Shenzhen, China Applicant's name HIAUDIO ELECTRONICS CO.,LIMITED Address RM18,27/F,Ho King Comm CTR,2-16 FA YUEN ST,Mongkok Kowloon,HongKong Manufacturer's name HIAUDIO ELECTRONICS CO.,LIMITED Address RM18,27/F,Ho King Comm CTR,2-16 FA YUEN ST,Mongkok Kowloon,HongKong Test specification: FCC Rules and Regulations Part 15 Subpart C Section 15.236 ANSI C63.10-2013 Test procedure / Non-standard test method N/A Test Report Form No. TRF-EL-111_VO Test Report Form(s) Originator ZKT Testing Master TRF Dated: 2020-01-06 This device described above has been tested by ZKT, 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 ZKT, this document may be altered or revised by ZKT, personal only, and shall be noted in the revision of the document. Product name <td< td=""><td colspan="4">.eport Number : ZKT-22003041365</td></td<> | .eport Number : ZKT-22003041365 | | | |
| Total number of pages 32 Test Result PASS Testing Laboratory. : Shenzhen ZKT Technology Co., Ltd. Address 1/F, No. 101, Building B, No. 6, Tangwei Community Industrial Avenue, Fuhai Street, Bao'an District, Shenzhen, China Applicant's name : HIAUDIO ELECTRONICS CO., LIMITED Address : RM18,27/F,Ho King Comm CTR,2-16 FA YUEN ST,Mongkok Kowloon,HongKong Manufacturer's name : HIAUDIO ELECTRONICS CO., LIMITED Address : RM18,27/F,Ho King Comm CTR,2-16 FA YUEN ST,Mongkok Kowloon,HongKong Test specification: : Standard. : FCC Rules and Regulations Part 15 Subpart C Section 15.236 ANSI C63.10:2013 Test procedure. : / Non-standard test method : N/A Test Report Form No. : TRF-EL-111_VO Test Report Form(s) Originator : ZKT Testing Master TRF : Dated: 2020-01-06 This device described above has been tested by ZKT, 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 ZKT, this document may be altered or revised by ZKT, personal only, and shall be noted in the revision of the document. Product name | Date of Test | Feb. 24, 2022 Mar. 08, 2022 | | |
| Test Result : PASS Testing Laboratory. : Shenzhen ZKT Technology Co., Ltd. Address : 1/F, No. 101, Building B, No. 6, Tangwei Community Industrial Avenue, Fuhai Street, Bao'an District, Shenzhen, China Applicant's name : HIAUDIO ELECTRONICS CO.,LIMITED Address : RM18,27/F,Ho King Comm CTR,2-16 FA YUEN ST,Mongkok Kowloon,HongKong Manufacturer's name : HIAUDIO ELECTRONICS CO.,LIMITED Address : RM18,27/F,Ho King Comm CTR,2-16 FA YUEN ST,Mongkok Kowloon,HongKong Test specification: : Standard. : FCC Rules and Regulations Part 15 Subpart C Section 15.236 ANSI C63.10:2013 Test procedure. : / Non-standard test method : N/A Test Report Form No. : TRF-EL-111_V0 Test Report Form(s) Originator : ZKT Testing Master TRF : Dated: 2020-01-06 This device described above has been tested by ZKT, 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 ZKT, this document may be altered or revised by ZKT, personal only, and shall be noted in the revision of the document. Product name : Wireless Microphone Trade | Date of issue | Mar. 08, 2022 | | |
| Testing Laboratory | Total number of pages | 32 | | |
| Address 1/F, No. 101, Building B, No. 6, Tangwei Community Industrial Avenue, Fuhai Street, Bao'an District, Shenzhen, China Applicant's name HIAUDIO ELECTRONICS CO.,LIMITED Address RM18,27/F,Ho King Comm CTR,2-16 FA YUEN ST,Mongkok Kowloon,HongKong Manufacturer's name HIAUDIO ELECTRONICS CO.,LIMITED Address RM18,27/F,Ho King Comm CTR,2-16 FA YUEN ST,Mongkok Kowloon,HongKong Address RM18,27/F,Ho King Comm CTR,2-16 FA YUEN ST,Mongkok Kowloon,HongKong Test specification: Standard Standard FCC Rules and Regulations Part 15 Subpart C Section 15.236 ANSI C63.10:2013 Test procedure / Non-standard test method N/A Test Report Form No. TRF-EL-111_V0 Test Report Form(s) Originator ZKT Testing Mater TRF Dated: 2020-01-06 This device described above has been tested by ZKT, 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 ZKT, this document may be altered or revised by ZKT, personal only, and shall be noted in the revision of the document. Product name Wireless Microphone Trademark / | Test Result | PASS | | |
| Applicant's name : HIAUDIO ELECTRONICS CO.,LIMITED Address : RM18,27/F,Ho King Comm CTR,2-16 FA YUEN ST,Mongkok Manufacturer's name : HIAUDIO ELECTRONICS CO.,LIMITED Address : RM18,27/F,Ho King Comm CTR,2-16 FA YUEN ST,Mongkok Kowloon,HongKong : RM18,27/F,Ho King Comm CTR,2-16 FA YUEN ST,Mongkok Address : RM18,27/F,Ho King Comm CTR,2-16 FA YUEN ST,Mongkok Kowloon,HongKong : Rest specification: Standard : FCC Rules and Regulations Part 15 Subpart C Section 15.236 Ansi C63.10:2013 : FCC Rules and Regulations Part 15 Subpart C Section 15.236 Test procedure : / Non-standard test method : N/A Test Report Form No. : TRF-EL-111_V0 Test Report Form(s) Originator : ZKT Testing Master TRF : Dated: 2020-01-06 This device described above has been tested by ZKT, 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 ZKT, this document may be altered or revised by ZKT, personal only, and shall be noted in the revision of the document. Product name : Wireless Microphone Trademark : / | Testing Laboratory | Shenzhen ZKT Technology Co., Ltd. | | |
| Address RM18,27/F,Ho King Comm CTR,2-16 FA YUEN ST,Mongkok Kowloon,HongKong Manufacturer's name : HIAUDIO ELECTRONICS CO.,LIMITED Address : RM18,27/F,Ho King Comm CTR,2-16 FA YUEN ST,Mongkok Kowloon,HongKong Test specification: : Standard : FCC Rules and Regulations Part 15 Subpart C Section 15.236 ANSI C63.10:2013 Test procedure : / Non-standard test method : N/A Test Report Form No. : TRF-EL-111_V0 Test Report Form No. : ZKT Testing Master TRF : Dated: 2020-01-06 This device described above has been tested by ZKT, 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 ZKT, this document may be altered or revised by ZKT, personal only, and shall be noted in the revision of the document. Product name : Wireless Microphone Trademark : / Model/Type reference : SWM15-PROS, SWM16-MAX, SWM16-PRO, SWM16-KM, RKI60, RKI65BT, SWM50-U2 | Address | 1/F, No. 101, Building B, No. 6, Tangwei Community Industrial Avenue, Fuhai Street, Bao'an District, Shenzhen, China | | |
| Manufacturer's name : HIAUDIO ELECTRONICS CO.,LIMITED Address : RM18,27/F,Ho King Comm CTR,2-16 FA YUEN ST,Mongkok Kowloon,HongKong Test specification: : FCC Rules and Regulations Part 15 Subpart C Section 15.236 ANSI C63.10:2013 Test procedure : / Non-standard test method : N/A Test Report Form No. : TRF-EL-111_V0 Test Report Form(s) Originator : ZKT Testing Master TRF : Dated: 2020-01-06 This device described above has been tested by ZKT, 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 ZKT, this document may be altered or revised by ZKT, personal only, and shall be noted in the revision of the document. Product name. : Wireless Microphone Trademark : / Model/Type reference : / Model/Type reference : SWM15-PROS, SWM16-MAX, SWM16-PRO, SWM16-KM, RKI60, RKI65BT, SWM50-U2 | Applicant's name: | HIAUDIO ELECTRONICS CO.,LIMITED | | |
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| Test specification: Standard FCC Rules and Regulations Part 15 Subpart C Section 15.236 ANSI C63.10:2013 Test procedure | | | | |
| Standard FCC Rules and Regulations Part 15 Subpart C Section 15.236 ANSI C63.10:2013 ANSI C63.10:2013 Test procedure | Address | RM18,27/F,Ho King Comm CTR,2-16 FA YUEN ST,Mongkok Kowloon,HongKong | | |
| Test procedure | Test specification: | | | |
| Non-standard test method : N/A Test Report Form No. : TRF-EL-111_V0 Test Report Form(s) Originator : ZKT Testing Master TRF : Dated: 2020-01-06 This device described above has been tested by ZKT, 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 ZKT, this document may be altered or revised by ZKT, personal only, and shall be noted in the revision of the document. Product name : Wireless Microphone Trademark : / Model/Type reference : SWM15-PROS, SWM16-MAX, SWM16-PRO, SWM16-KM, RKI60, RKI65BT, SWM50-U2 | Standard: | FCC Rules and Regulations Part 15 Subpart C Section 15.236 ANSI C63.10:2013 | | |
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| Test Report Form(s) Originator: ZKT Testing Master TRF: Dated: 2020-01-06 This device described above has been tested by ZKT, 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 ZKT, this document may be altered or revised by ZKT, personal only, and shall be noted in the revision of the document. Product name: Wireless Microphone Trademark | Non-standard test method: | : N/A | | |
| Master TRF : Dated: 2020-01-06 This device described above has been tested by ZKT, 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 ZKT, this document may be altered or revised by ZKT, personal only, and shall be noted in the revision of the document. Product name. : Wireless Microphone Trademark : / Model/Type reference : SWM15-PROS, SWM16-MAX, SWM16-PRO, SWM16-KM, RKI60, RKI65BT, SWM50-U2 | Test Report Form No: | TRF-EL-111_V0 | | |
| This device described above has been tested by ZKT, 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 ZKT, this document may be altered or revised by ZKT, personal only, and shall be noted in the revision of the document. Product name : Wireless Microphone Trademark : / Model/Type reference : SWM15-PROS, SWM16-MAX, SWM16-PRO, SWM16-KM, RKI60, RKI65BT, SWM50-U2 | Test Report Form(s) Originator : | ZKT Testing | | |
| 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 ZKT, this document may be altered or revised by ZKT, personal only, and shall be noted in the revision of the document. Product name | Master TRF: | Dated: 2020-01-06 | | |
| Product name : Wireless Microphone Trademark : / HU10, K2, K3, K5, K6WH, K6D, K8, K11, K201, K203, K205, K207, Model/Type reference : SWM15-PROS, SWM16-MAX, SWM16-PRO, SWM16-KM, RKI60, RKI65BT, SWM50-U2 | test (EUT) is in compliance with the F identified in the report. This report shall not be reproduced e | CC requirements. And it is applicable only to the tested sample xcept in full, without the written approval of ZKT, this document may | | |
| HU10, K2, K3, K5, K6WH, K6D, K8, K11, K201, K203, K205, K207, Model/Type reference : SWM15-PROS, SWM16-MAX, SWM16-PRO, SWM16-KM, RKI60, RKI65BT, SWM50-U2 | · · · | | | |
| Model/Type reference : SWM15-PROS, SWM16-MAX, SWM16-PRO, SWM16-KM, RKI60, RKI65BT, SWM50-U2 | Trademark | 1 | | |
| Ratings: DC 3V | Model/Type reference: | SWM15-PROS, SWM16-MAX, SWM16-PRO, SWM16-KM, RKI60, | | |
| | Ratings | DC 3V | | |

| Testing procedure and testing location: | |
|---|--|
| Testing Laboratory: | 1/F, No. 101, Building B, No. 6, Tangwei Community |
| | Industrial Avenue, Fuhai Street, Bao'an District, Shenzhen, China |
| Tested by (name + signature) | Alen He Aron. Ne |
| Reviewer (name + signature) | Joe Liu |
| Approved (name + signature) | Lake Xie |
| | |
| | |

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1.VERSION

| Report No. | Version | Description | Approved |
|-----------------|---------|-------------------------|---------------|
| ZKT-22003041365 | Rev.01 | Initial issue of report | Mar. 08, 2022 |
| | | | |
| | | | |

2.1SUMMARY OF TEST RESULTS

| FCC Part15 (15.249) , Subpart C | | | | |
|---------------------------------|--|------|--------|--|
| Standard Section | Test Item | | Rem rk | |
| FCC part 15.203 | Antenna requirement | PASS | | |
| FCC part 15.207 | C part 15.207 AC Power Line Conducted Emision | | | |
| FCC part 15.236(d)(1) | 5.236(d)(1) Conducted Peak Output Power | | | |
| FCC part 15.236(d)(2) | FCC part 15.236(d)(2) Radiated Spurious Emission Measurement | | | |
| FCC part 15.236(d)(2) | FCC part 15.236(d)(2) Spurious Emission at Antenna Port | | | |
| FCC part 15.236(f)(2) | CC part 15.236(f)(2) Occupied Bandwidth Emission | | | |
| FCC part 15.236(f)(3) | FCC part 15.236(f)(3) Frequency Stability | | | |

Test procedures according to the technical standards:

NOTE:

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





2.1 TEST FACILITY

Shenzhen ZKT Technology Co., Ltd. Add. : 1/F, No. 101, Building B, No. 6, Tangwei Community Industrial Avenue, Fuhai Street, Bao'an District, Shenzhen, China

FCC Test Firm Registration Number: 692225 Designation Number: CN1299 IC Registered No.: 27033

2.2 MEASUREMENT UNCERTAINTY

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

| No. | Item | Uncertainty | |
|-----|------------------------------|-------------|--|
| 1 | Conducted Emission Test | ±1.38dB | |
| 2 | RF power conducted ±0.16dB | | |
| 3 | Spurious emissions conducted | ±0.21dB | |
| 4 | All emissions radiated(<1G) | ±4.68dB | |
| 5 | All emissions radiated(>1G) | ±4.89dB | |
| 6 | Temperature | ±0.5°C | |
| 7 | Humidity ±2% | | |





3.1 GENERAL DESCRIPTION OF EUT

| Product Name: | Wireless Microphone | |
|------------------------|--|--|
| Model No.: | HU10 | |
| Model Different.: | There are many models of this product, only the model name, color and button are different, and other parts such as circuit principle, PCB, electrical structure, etc. are the same. | |
| Serial No.: | K2, K3, K5, K6WH, K6D, K8, K11, K201, K203, K205, K207, SWM15-PROS, SWM16-MAX, SWM16-PRO, SWM16-KM, RKI60, RKI65BT, SWM50-U2 | |
| Hardware Version: | V1.3 | |
| Software Version: | V1.0 | |
| Channel numbers: | 19 | |
| Channel separation: | 540MHz~590MHz | |
| Modulation technology: | FM | |
| Antenna Type: | metal spring antenna | |
| Antenna gain: | 0 dBi | |
| Power supply: | DC 3.0V from AA*2 Battery | |
| | | |

The Applicant provides communication tools software to control the EUT for staying in continuous transmitting and receiving mode for testing.

The product has 19 channels and the grayscale frequency is representative of the selected test. Operation Frequency:

| A mode-Channel | Frequency (MHz) | B mode-Channel(B) | Frequency (MHz) |
|----------------|-----------------|-------------------|-----------------|
| 1 | 540.0 | 11 | 574.1 |
| 2 | 556.1 | 12 | 576.4 |
| 3 | 558.4 | 13 | 578.7 |
| 4 | 560.7 | 14 | 580.2 |
| 5 | 562.2 | 15 | 582.5 |
| 6 | 564.5 | 16 | 584.8 |
| 7 | 565.0 | 17 | 586.3 |
| 8 | 566.8 | 18 | 588.6 |
| 9 | 568.3 | 19 | 590.0 |
| 10 | 570.6 | | |









Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

| Test channel | Frequency |
|--------------|-----------|
| CH01 | 540MHz |
| CH07 | 565MHz |
| CH19 | 590MHz |

3.2 DESCRIPTION OF TEST MODES

| Transmitting mode | Keep the EUT in continuously transmitting mode |
|---------------------|---|
| supply voltage, and | t, the test voltage was tuned from 85% to 115% of the nominal rated nd that the worst case was under the nominal rated supply just shows that condition's data. |

| Test method | Key combination |
|-------------------|-----------------|
| Power level setup | <17dBm |

3.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Conducted Emission

N/A (not applicable to this device, which is powered by dry battery)

Radiated Emission

3.4 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 | Mfr/Brand | Model/Type No. | Series No. | Note |
|------|-----------|-----------|----------------|------------|------|
| | | | | | |
| | | | | | |
| | 2 | | | | |

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 ^rLength ^a column.

Shenzhen ZKT Technolgy Co., Ltd.







Radiation Test equipment

| Item | Equipment | Manufacturer | Type No. | Serial No. | Last calibration | Calibrated until |
|------|-------------------------------------|-----------------|--------------------|------------|------------------|---------------------------------------|
| 1 | Spectrum Analyzer (9kHz-26.5GHz) | KEYSIGHT | 9020A | MY45109572 | Sep. 21, 2021 | Sep. 20, 2022 |
| 2 | Spectrum Analyzer (1GHz-40GHz) | Agilent | E4446A | 100363 | Sep. 21, 2021 | Sep. 20, 2022 |
| 3 | Test Receiver (9kHz-7GHz) | R&S | ESCI7 | 101169 | Sep. 21, 2021 | Sep. 20, 2022 |
| 4 | Bilog Antenna (30MHz-1400MHz) | Schwarzbeck | VULB9168 | 00877 | Sep. 21, 2021 | Sep. 20, 2022 |
| 5 | Horn Antenna (1GHz-18GHz) | SCHWARZBEC K | BBHA9120D | 1541 | Sep. 21, 2021 | Sep. 20, 2022 |
| 6 | Horn Antenna (18GHz-40GHz) | A.H. System | SAS-574 | 588 | Sep. 21, 2021 | Sep. 20, 2022 |
| 7 | Amplifier (30-1000MHz) | EM Electronics | EM330 Amplifier | N/A | Sep. 21, 2021 | Sep. 20, 2022 |
| 8 | Amplifier (1GHz-40GHz) | QUANJUDA | DLE-161 | 097 | Sep. 21, 2021 | Sep. 20, 2022 |
| 9 | Loop Antenna (9KHz-30MHz) | SCHWARZBEC K | FMZB1519B | 014 | Sep. 21, 2021 | Sep. 20, 2022 |
| 10 | RF cables1 (9kHz-30MHz) | N/A | 9kHz-30MHz | N/A | Sep. 21, 2021 | Sep. 20, 2022 |
| 11 | RF cables2 (30MHz-1GHz) | N/A | 30MHz-1GHz | N/A | Sep. 21, 2021 | Sep. 20, 2022 |
| 12 | RF cables3 (1GHz-40GHz) | N/A | 1GHz-40GHz | N/A | Sep. 21, 2021 | Sep. 20, 2022 |
| 13 | CMW500 Test | R&S | CMW500 | 106504 | Sep. 21, 2021 | Sep. 20, 2022 |
| 14 | ESG Signal Generator | Agilent | E4421B | GB40051203 | Sep. 21, 2021 | Sep. 20, 2022 |
| 15 | Signal Generator | Agilent | N5182A | MY47420215 | Sep. 21, 2021 | Sep. 20, 2022 |
| 16 | D.C. Power Supply | LongWei | TPR-6405D | ١ | ١ | · · · · · · · · · · · · · · · · · · · |
| 17 | Software | Frad | EZ-EMC | FA-03A2 RE | ١ | λ |

Conduction Test equipment

| Item | Kind of Equipment | Manufacturer | Type No. | Serial No. | Last calibration | Calibrated until |
|------|----------------------|--------------|----------|-----------------|------------------|------------------|
| 1 | LISN | R&S | ENV216 | 101471 | Sep. 21, 2021 | Sep. 20, 2022 |
| 2 | LISN | CYBERTEK | EM5040A | E185040014 9 | Sep. 21, 2021 | Sep. 20, 2022 |
| 3 | Test Cable | N/A | C01 | N/A | Sep. 21, 2021 | Sep. 20, 2022 |
| 4 | Test Cable | N/A | C02 | N/A | Sep. 21, 2021 | Sep. 20, 2022 |
| 5 | EMI Test Receiver | R&S | ESRP3 | 101946 | Sep. 21, 2021 | Sep. 20, 2022 |
| 6 | Absorbing Clamp | DZ | ZN23201 | N/A | Sep. 21, 2021 | Sep. 20, 2022 |



1/F, No. 101, Building B, No. 6, Tangwei Community Industrial Avenue, Fuhai Street, Bao'an District, Shenzhen, China





4. EMC EMISSION TEST

4.1 CONDUCTED EMISSION MEASUREMENT

| | Test Requirement: | FCC Part15 C Section 15.207 |
|---|-----------------------|--------------------------------------|
| | Test Method: | ANSI C63.4: 2014 |
| 5 | Test Frequency Range: | 150KHz to 30MHz |
| ų | Receiver setup: | RBW=9KHz, VBW=30KHz, Sweep time=auto |

4.1.1 POWER LINE CONDUCTED EMISSION Limits

| | Limit (d | Standard | | |
|-----------------|------------|-----------|----------|--|
| FREQUENCY (MHz) | Quas -peak | Average | Standard | |
| 0.15 -0.5 | 66 - 56 * | 56 - 46 * | FCC | |
| 0.50 -5.0 | 56.00 | 46.00 | FCC | |
| 5.0 -30.0 | 60.00 | 50.00 | FCC | |

Note:

(1) *Decreases with the logarithm of the frequency.

4.1.2 TEST PROCEDURE

- a. The EUT was placed 0.8 meters from the horizontal 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. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item -EUT Test Photos.

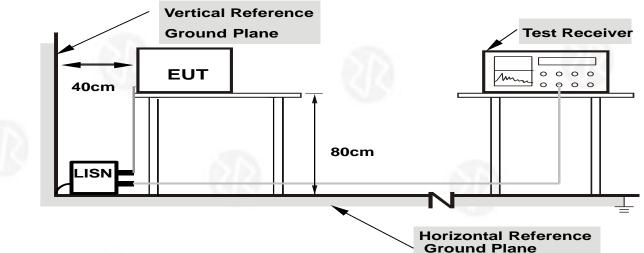
4.1.3 DEVIATION FROM TEST STANDARD

No deviation









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

4.1.5 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.

4.1.6 TEST RESULTS

N/A

(The product is powered by 2*AA batteries. This test item is not applicable)





4.2.1 LIMIT

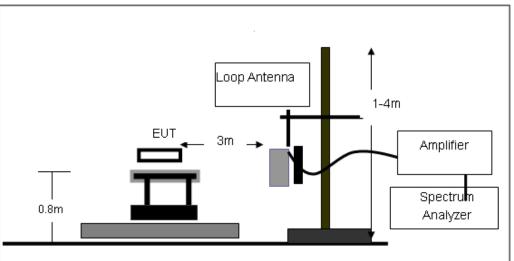
According to 15.236(d)(2), In the 600 MHz guard band and the 600 MHz duplex gap: 20 mW EIRP



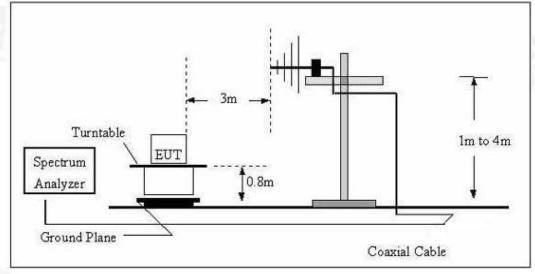
4.2.3 DEVIATION FROM TEST STANDARD No deviation

4.2.4 TEST SETUP

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



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

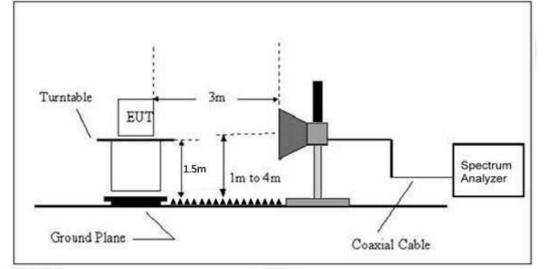


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(C) Radiated Emission Test-Up Frequency Above 1GHz



Frequency :9kHz-30MHz RBW=10KHz, VBW =30KHz Sweep time= Auto Trace = max hold Detector function = peak Frequency :30MHz-1GHz RBW=120KHz, VBW=300KHz Sweep time= Auto Trace = max hold Detector function = peak Frequency :Above 1GHz RBW=1MHz, VBW=3MHz(Peak), 10Hz(AV) Sweep time= Auto Trace = max hold QP Detector function = peak, AV

4.2.5 TEST PROCEDURE

1. The setup of EUT is according with per TIA/EIA Standard 603 and ANSI C63.4-2014 measurement procedure.

2. The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna heightand polarization as well as EUT azimuth were varied in order to identify the maximum level of emissions from theEUT. The test was performed by placing the EUT on 3-orthogonal axis.

3.The frequency range up to tenth harmonic of the fundamental frequency was investigated.4.Remove the EUT and replace it with substitution antenna. A signal generator was connected to the substitution

antenna by a non-radiating cable. The absolute levels of the spurious emissions were measured by the substitution.

Spurious attenuation limit in dB = 43 + 10 Log10 (power in Watts)

4.2.6 TEST RESULTS

Below 30MHz Test Results:

| FREQUENCY | Reading | Factor | Level | Limit | Margin | Polarity |
|-----------|---------|--------|-------|-------|--------|----------|
| (MHZ) | (dBm) | (dB) | (dBm) | (dBm) | (dBm) | |
| - | | | | | | |
| 215 | | |)) | | | - |

NOTE: Radiated emission test from 9KHz to 10th harmonic of fundamental was verified, and no emission found except system noise floor (more than 20dB below the limit) in 9KHz to 30MHz and not recorded in this report.

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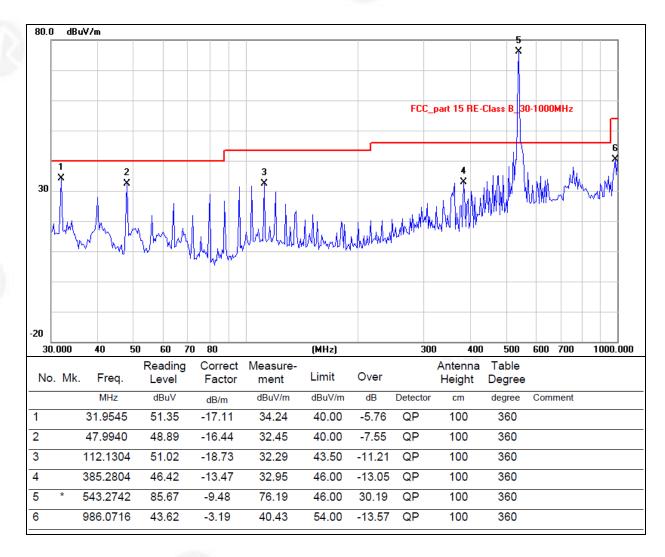






Between 30MHz - 1GHz

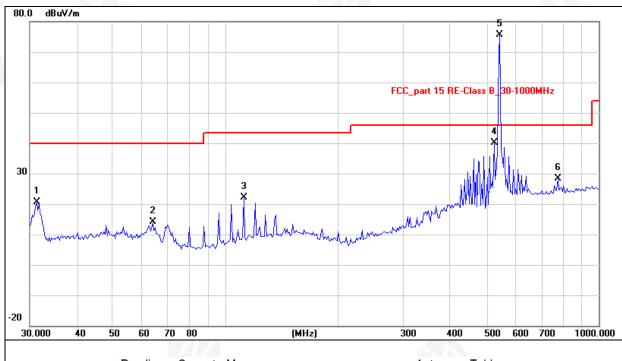
| Temperature: | 26 ℃ | Relative Humidity: | 54% |
|---------------|-------------|--------------------|------------|
| Pressure: | 101 kPa | Polarization: | Horizontal |
| Test Voltage: | DC 3.0V | 515 | |







| Temperature: | 26 ℃ | Relative Humidity: | 54% |
|---------------|-------------|--------------------|----------|
| Pressure: | 101kPa | Polarization: | Vertical |
| Test Voltage: | DC 3.0V | | 575 |



| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Over | | Antenna Height | Table Degree | |
|-----|-----|----------|------------------|-------------------|------------------|--------|--------|----------|-------------------|-----------------|---------|
| | | MHz | dBuV | dB/m | dBuV/m | dBuV/m | dB | Detector | cm | degree | Comment |
| 1 | | 31.2892 | 37.71 | -17.11 | 20.60 | 40.00 | -19.40 | QP | 100 | 360 | |
| 2 | | 63.9827 | 31.90 | -17.68 | 14.22 | 40.00 | -25.78 | QP | 100 | 360 | |
| 3 | | 112.1304 | 40.86 | -18.73 | 22.13 | 43.50 | -21.37 | QP | 100 | 360 | |
| 4 | | 524.5541 | 50.08 | -10.00 | 40.08 | 46.00 | -5.92 | QP | 100 | 360 | |
| 5 | * | 543.2742 | 85.00 | -9.48 | 75.52 | 46.00 | 29.52 | QP | 100 | 360 | |
| 6 | | 776.8778 | 33.32 | -4.93 | 28.39 | 46.00 | -17.61 | QP | 100 | 360 | |

Remarks:

1.Final Level =Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor 2.The emission levels of other frequencies are very lower than the limit and not show in test report.









Above 1GHz Test Results:

| FREQUENCY | Reading | Factor | Level | Limit | Margin | Polarity |
|-----------|---------|--------|--------|-------|--------|----------|
| (MHZ) | (dBm) | (dB) | (dBm) | (dBm) | (dBm) | 124 |
| 1086.2970 | -45.76 | 7.78 | -37.98 | -30 | 7.98 | н |
| 1629.3506 | -44.08 | 2.00 | -42.08 | -30 | 12.08 | Н |
| 2172.9423 | -43.42 | -1.57 | -44.99 | -30 | 14.99 | Н |
| 1086.2970 | -43.89 | 6.08 | -37.81 | -30 | 7.81 | V |
| 1629.3506 | -42.36 | 3.87 | -38.49 | -30 | 8.49 | V |
| 2172.9423 | -40.00 | -2.59 | -42.59 | -30 | 12.59 | V |

(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.

Standby mode:

| FREQUENCY | Reading | Factor | Level | Limit | Margin | Polarity |
|-----------|---------|--------|-------|-------|--------|----------|
| (MHZ) | (dBm) | (dB) | (dBm) | (dBm) | (dBm) | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

NOTE:

Radiated emission test from 30MHz to 10th harmonic of fundamental was verified, and no emission found except system noise floor (more than 20dB below the limit) in 30MHz to 8GHz and not recorded in this report.





5.CONDUCTED OUTPUT POWER

5.1 LIMIT

ACCORDING TO FCC 15.236(D)(1), FOR LOW POWER AUXILIARY STATION OPERATING IN THE 470-608, AND 614-698 MHZBANDS, IN THE BANDS ALLOCATED AND ASSIGNED FOR BROADCAST TELEVISION AND IN THE 600 MHZ SERVICE BAND: 50 MW EIRP

5.2 TEST SETUP

EUT

| SPECTRUM | |
|----------|--|
| ANALYZER | |

5.3 TEST PROCEDURE:

1. THE MAXIMUM PEAK OUTPUT POWER WAS MEASURED WITH A SPECTRUM ANALYZER CONNECTED TO THE ANTENNA TERMINALWHILE EUT WAS OPERATING IN UNMODULATED SITUATION.

2. POWER WAS SUPPLIED TO THE BATTERY INPUT CONNECTOR A POWER SUPPLY. THE POWER SUPPLY WAS SET FOR +3.0VDC. THESPECTRUM ANALYZER WAS CONNECTED AT ANTENNA TERMINAL TO MEASURE RF POWER OF THE CARRIER.

3. A MULTIMETER WAS CONNECTED IN SERIES WITH FINAL RF STAGE TO MEASURE THE CURRENT; A MULTIMETER WAS USED TOMEASURE FINAL RF STAGE SUPPLY VOLTAGE. THEN THE VOLTAGE V.S. CURRENT OF THE FINAL RF STAGE CAN BE SHOWED.

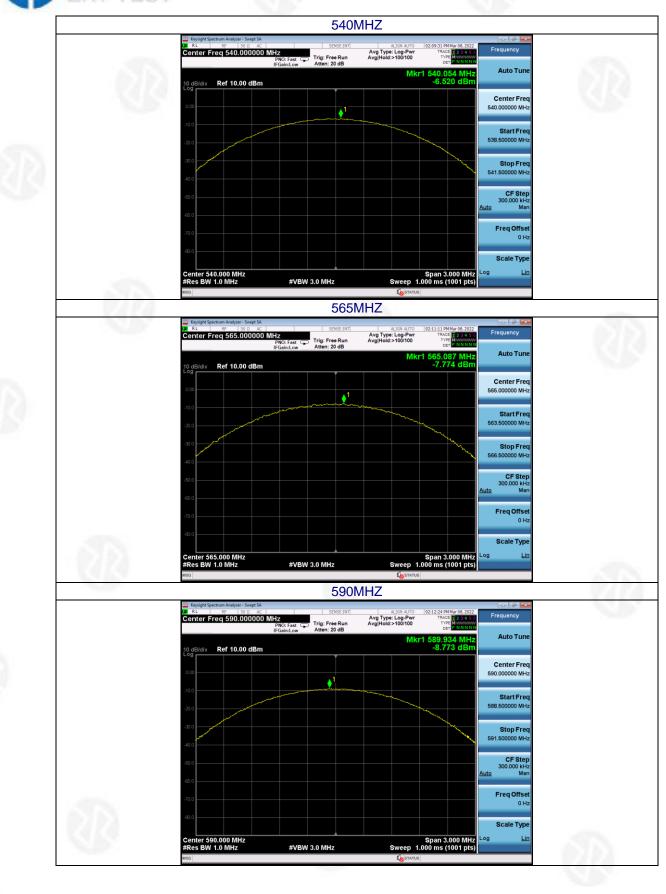
5.4 TEST RESULTS:

| FREQUENCY (MHZ) | CONDUCTED OUTPUT POWER (DBM) | ANT GAIN (DBI) | EIRP (DBM) | LIMIT (DBM) | RESULT |
|--------------------|---------------------------------------|-------------------|---------------|----------------|--------|
| 540 | -6.520 | 0 | -6.520 | | PASS |
| 565 | -7.774 | 0 | -7.774 | 17 | PASS |
| 590 | -8.773 | 0 | -8.773 | | PASS |















| Test Requirement: | FCC Part15 C Section 15. 236(f)(2) |
|-------------------|------------------------------------|
| Test Method: | ANSI C63.4: 2014 |

6.1 APPLIED PROCEDURES / LIMIT

According to FCC 15.236(f)(2), The operating frequency within a permissible band of operation as defined inparagraph (c) must comply with the following requirements.

(1) The frequency selection shall be offset from the upper or lower band limits by 25 kHz or an integral multiple thereof.

(2) One or more adjacent 25 kHz segments within the assignable frequencies may be combined to form a channel whose maximum bandwidth shall not exceed 200 kHz. The operating bandwidth shall not exceed 200kHz.

Emissions within the band from one megahertz below to one megahertz above the carrier frequency shall comply with the emission mask in Section 8.3 of ETSI EN 300 422-1 V1.4.2 (2011-08) (incorporated by reference, see §15.38). Emissions outside this band shall comply with the limit specified at the edges of the ETSI mask

6.2 TEST PROCEDURE

According to TIA-603 for additional Test Set-Up procedures, the occupied bandwidth of emission was measuredwith a Spectrum Analyzer connected to the antenna terminal while EUT was operating in 2.5kHz tone at an input level 16 dB greater than that necessary to produce 50 percent modulation. Then mark the -26dB Bandwidth and record it.

6.3 DEVIATION FROM STANDARD

No deviation.

6.4 TEST SETUP

EUT

SPECTRUM ANALYZER



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.



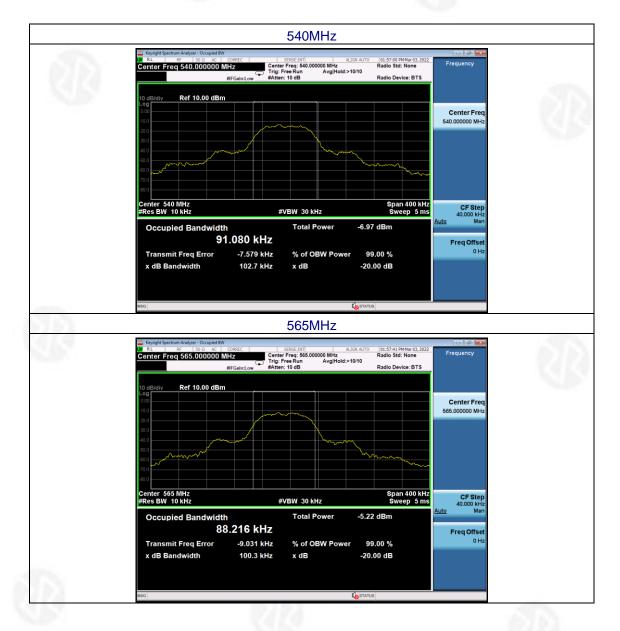






| Temperature : | 26 ℃ | Relative Humidity : | 54% |
|---------------|-------------|---------------------|---------|
| Test Mode : | FM | Test Voltage : | DC 3.0V |

| Test channel | 20dB bandwidth (MHz) | 99%Bandwidth (kHz) | Limit (kHz) | Result |
|--------------|-------------------------|-----------------------|----------------|--------|
| Lowest | 0.1027 | 91.080 | | |
| Middle | 0.1003 | 88.216 | 200 | Pass |
| Highest | 0.0981 | 86.895 | | |







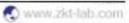




| Center Freq 590.000000 | MHz Cente Trig: | SENSE:INT AL: r Freq: 590.000000 MHz Free Run Avg Hold:>1 h: 10 dB | GN AUTO 01:58:21 PM Mar 03 Radio Std: None 0/10 Radio Device: BT | Frequency | |
|---------------------------------------|---------------------------|---|---|-------------------------------|--|
| 10 dB/div Ref 10.00 dBr | n | | | | |
| Log 0.00 -10.0 | | ~~~~ | | Center Freq 590.000000 MHz | |
| -20.0 | ~~~~ | | | | |
| -50.0 | | | J. J | | |
| | | | Spop 400 | | |
| #Res BW 10 kHz | | VBW 30 kHz | Span 400 Sweep 5 | ms 40.000 kHz | |
| Occupied Bandwidt | ^h 6.895 kHz | Total Power | -5.26 dBm | Freq Offset | |
| Transmit Freq Error x dB Bandwidth | -10.199 kHz 98.12 kHz | % of OBW Power x dB | 99.00 % -20.00 dB | 0 Hz | |
| | | | | | |
| MSG | | | STATUS | | |



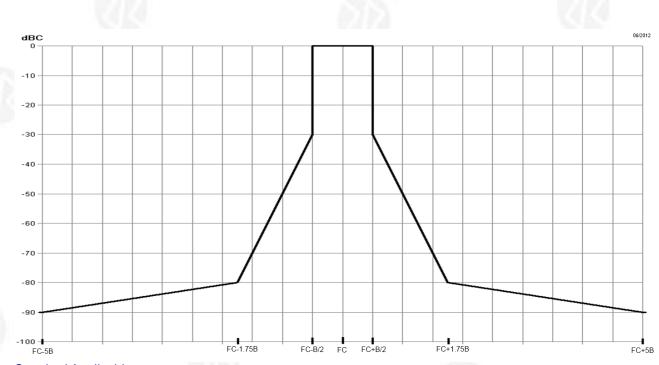






7.Necessary bandwidth

7.1LIMIT

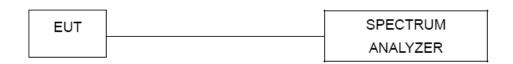


Standard Applicable

According to §15.236 (g) Emissions within the band from one megahertz below to one megahertz above thecarrier frequency shall comply with the emission mask in §8.3 of ETSI EN 300 422-1 V1.4.2 (2011-08), Electromagnetic compatibility and Radio spectrum Matters (ERM); Wireless microphones in the 25 MHz to 3GHz frequency range; Part 1: Technical characteristics and methods of measurement. Emissions outside of thisband shall comply with the limits specified in section 8.4 of ETSI EN 300 422-1 V1.4.2 (2011-08).

According to ETSI EN 300 422-2 V2.1.1 section 8.3, the transmitter output spectrum shall be within the maskdefined in the following figure.

7.2 TEST SETUP



7.3 TEST PROCEDURE:

Principal Spectrum Mask measuring method for digital transmitters:

- Spectrum mask below 1 GHz, see figure 4; for the spectrum mask above 1 GHz, see figure 5.

NOTE: This parameter also includes the limits for spectral components within the out-of-band region. The transmitter shall be modulated with the test signals defined in clause 7.1.2. In any case the mask shall not be

exceeded.

- Step 1: Measure the "Carrier Power" with the spectrum analyser setup:
- Centre Frequency = fc
- Span = Zero span
- Detector = RMS
- Trace Mode = Average • RBW&VBW = 5 × B





Step 2: Measure the "Maximum Relative Level (dBc) at Specified Carrier Offsets" with the following spectrum analyser setup:

- Centre Frequency = fc
- Span \geq 5 x B
- Detector = RMS
- Trace Mode = Peak Hold
- RBW&VBW = 1 kHz
- Sweep time $\geq 2 s$

Limits:

- Step 3: Measure the "transmitter wide band noise floor":
- The measurement of transmitter broad band noise floor shall be carried out according to clause 8.3.2.1. - Step 3a: Measure the "lower frequency transmitter wide band noise floor":
- Start Frequency = $fc 5 \times B$
- Stop Frequency = $fc 1,75 \times B$
- Detector = RMS
- Trace Mode = Average
- RBW&VBW = 1 kHz
- Sweep time = 2 s per 200 kHz
- Step 3b: Measure the "upper frequency transmitter wide band noise floor":
- Start Frequency = $fc + 1,75 \times B$
- Stop Frequency = $fc + 5 \times B$
- Detector = RMS
- Trace Mode = Average
- RBW&VBW = 1 kHz
- Sweep time = 2 s per 200 kHz
- Both spectrum ranges shall be measured.

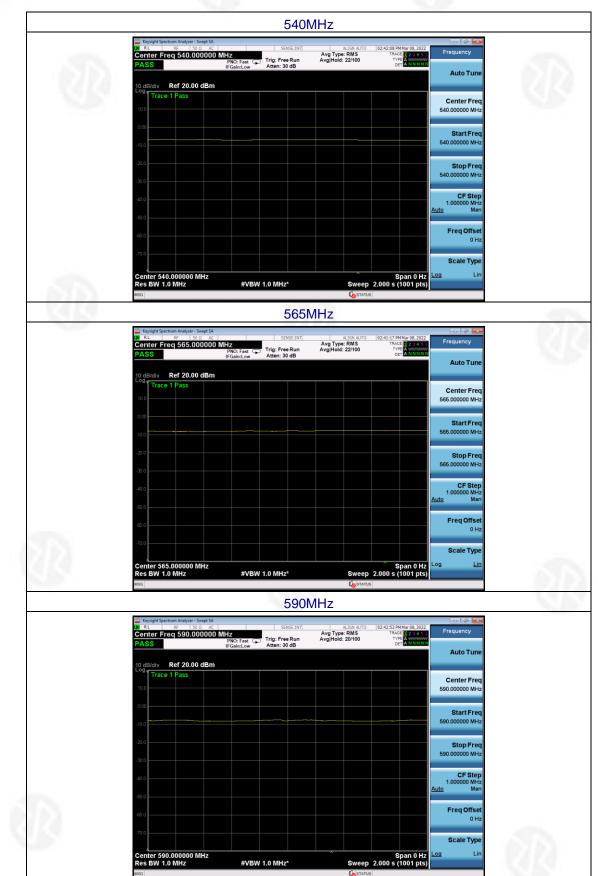
Limits: The spectrum mask for digital systems shall not be exceeded. See figure 4 for systems operating below

2 GHz and figure 5 for systems operating above 2 GHz.

7.4 TEST RESULT:













565MHz



590MHz



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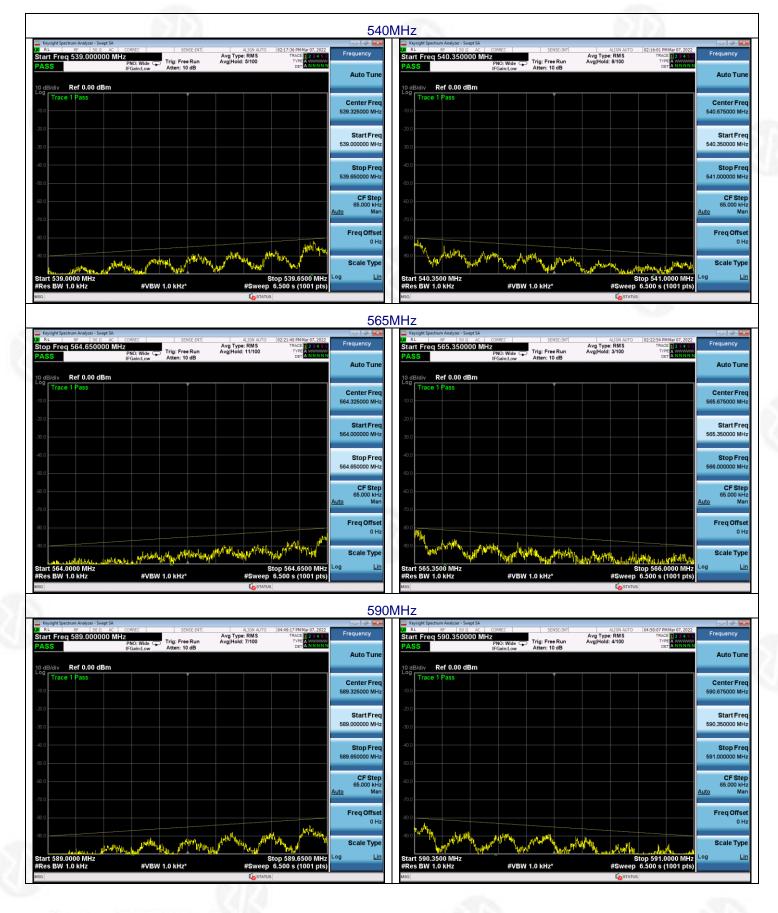








-90 dBc point test result:



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8.1 Limit

 \pm 50ppm

8.2 Standard Applicable

According to FCC 15.236(f)(3), The frequency tolerance of the carrier signal shall be maintained within $\pm 0.005\%$ of the operating frequency over a temperature variation of -20 degrees to +50 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C. Battery operated equipment shall be tested using a new battery

8.3 TEST SETUP



8.4 Test Procedure

 Setup the configuration of the ambient temperature form -20°C to 50°C with sufficient time. And measure the different power of the EUT with an artificial power from highest to end point voltage.
Set frequency counter center frequency to the right frequency needs to be measuredband.







8.5 Test Result

| | Test frequency | Test C | Conditions | Measure Frequency | | Jency ror | Limit | Result |
|----|-------------------|----------------|---------------------|----------------------|---------|--------------|-------------|--------|
| | (MHz) | Voltage (V) | Temperature (°C) | (MHz) | (MHz) | ppm | ppm | Result |
| | | | Ν | 539.9976 | -0.0024 | -4.36 | | |
| 67 | | Ν | L | 539.9803 | -0.0197 | -36.51 | | |
| 11 | 2 | | Н | 539.9890 | -0.0110 | -20.43 | | |
| 4 | | | Ν | 539.9883 | -0.0117 | -21.58 | | |
| | 540MHz | L | L | 539.9874 | -0.0126 | -23.40 | \pm 50ppm | PASS |
| | | | Н | 539.9788 | -0.0212 | -39.22 | | |
| | | | Ν | 539.9885 | -0.0115 | -21.34 | | |
| | | н | L | 539.9913 | -0.0087 | -16.04 | | |
| | 1 | \sim | Н | 539.9920 | -0.0080 | -14.73 | | |

| Test frequency | Test C | Conditions | Measure Frequency | | uency rror | Limit | Result |
|-------------------|----------------|---------------------|----------------------|---------|---------------|-------------|--------|
| (MHz) | Voltage (V) | Temperature (°C) | (MHz) | (MHz) | ppm | ppm | Result |
| 6 | | Ν | 564.9976 | -0.0024 | -4.24 | | |
| | Ν | L | 564.9801 | -0.0199 | -35.24 | | |
| | | Н | 564.9892 | -0.0108 | -19.08 | | |
| | | N | 564.9885 | -0.0115 | -20.42 | | |
| 565MHz | L | L | 564.9872 | -0.0128 | -22.69 | \pm 50ppm | PASS |
| | | Н | 564.9788 | -0.0212 | -37.52 |] | |
| 196 | | N | 564.9884 | -0.0116 | -20.47 | | |
| | н | L | 564.9911 | -0.0089 | -15.81 | | 15 |
| | | Н | 564.9921 | -0.0079 | -13.95 | | |

| Test frequency | Test C | conditions | Measure Frequency | | luency rror | Limit | Result |
|-------------------|----------------|---------------------|----------------------|---------|----------------|-------------|--------|
| (MHz) | Voltage (V) | Temperature (°C) | (MHz) | (MHz) | ppm | ppm | Result |
| | | Ν | 589.9982 | -0.0018 | -3.12 | | |
| | Ν | L | 589.9798 | -0.0202 | -34.22 | | |
| | | Н | 589.9894 | -0.0106 | -18.02 | | |
| | | Ν | 589.9888 | -0.0112 | -18.92 | | |
| 590MHz | L | L | 589.9875 | -0.0125 | -21.23 | \pm 50ppm | PASS |
| | | Н | 589.9788 | -0.0212 | -35.99 | 1.0.5 | |
| | | Ν | 589.9880 | -0.0120 | -20.37 | | |
| | Н | L | 589.9911 | -0.0089 | -15.04 | | |
| | | Н | 589.9919 | -0.0081 | -13.65 | | |





9. ANTENNA REQUIREMENT

| | Standard requirement: | FCC Part15 C Section 15.203 | |
|---|---|--|---|
| | be used with the device. The u intentional radiator, the manufa | se of a permanently attached antenna or of | nan that furnished by the responsible party shal an antenna that uses a unique coupling to the antenna can be replaced by the user, but the |
| | EUT Antenna: | | |
| R | | | |
| | | | R . |
| | | | |
| | | | |
| | | | |
| | | | |

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11. EUT CONSTRUCTIONAL DETAILS





***** END OF REPORT *****















