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FCC Test Report

Part 15 subpart C

Client Information:

Applicant: Gongdong Flexwarm Advanced Materials&Technology Co.,Ltd.

Applicant add.: Chuangyiyuan Zi Ni Tang. 7Xi An Road,Panyu District,Guanghou

City, Guangdong Province, P.R. China

Product Information:

Product Name: MULTI-ZONE BLUETOOTH HEATED JACKET

B-C3T4-Coat,F-GA009,F-GA010, F-GA101,F-GA102,F-GA103, Model No.:

F-GA104,F-GA105,F-GA106,F-GA107,F-GA108,F-GA109,F-GA110

Brand Name: He XWarm

FCC ID: 2AKEAF-GA010

Standards: CFR 47 FCC PART 15 SUBPART C:2016 section 15.247

Prepared By:

Dongguan Yaxu (AiT) Technology Limited

Add.: No.22, Jingianling Third Street, Jitigang, Huangjiang,

Dongguan, Guangdong, China

Date of Receipt: Oct. 15, 2016 Date of Test: Oct. 15~ Oct. 19, 2016

Date of Issue: Oct. 20, 2016 Test Result: Pass

This device described above has been tested by Dongguan Yaxu(AiT) Technology Limited, 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 test report must not be used by the client to claim product endorsement by any agency of the U.S. government.

Reviewed by: Seal-Chen Approved by:

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2 Test Summary

2.1 Compliance with FCC Part 15 subpart C

| Test | Test Requirement | Standard Paragraph | Result | | |
|---|--------------------|----------------------|--------|--|--|
| Antenna Requirement | FCC Part 15 C:2016 | Section 15.247(c) | PASS | | |
| Conduction Emissions | FCC Part 15 C:2016 | Section 15.207(a) | PASS | | |
| Radiated Emissions | FCC Part 15 C:2016 | Section 15.247(d) | PASS | | |
| Occupied Bandwidth | FCC Part 15 C:2016 | Section 15.247(a)(2) | PASS | | |
| Peak power density | FCC Part 15 C:2016 | Section 15.247(e) | PASS | | |
| Maximum Peak Output Power | FCC Part 15 C:2016 | Section 15.247(b)(1) | PASS | | |
| Band edge | FCC Part 15 C:2016 | Section 15.247(d) | PASS | | |
| Conducted Spurious Emissions | FCC Part 15 C:2016 | Section 15.247(d) | PASS | | |
| Note: | | | | | |
| (1) Reference to the KDB 558074 D01 DTS Guidance v03r05 and ANSI C63.10:2013. | | | | | |

2.2 Test Location

All tests were performed at:

Dongguan Yaxu (AiT) Technology Limited No.22, Jinqianling Third Street, Jitigang, Huangjiang, Dongguan, Guangdong, China Tel.: +86.769.82020499 Fax.: +86.769.82020495



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2.3 Measurement Uncertainty

All measurements involve certain levels of uncertainties, the maximum value of the uncertainty as below:

| No. | Item | Uncertainty |
|-----|------------------------------|-------------|
| 1 | Conducted Emission Test | 1.20dB |
| 2 | Radiated Emission Test | 3.30dB |
| 3 | RF power,conducted | 0.16dB |
| 4 | RF power density,conducted | 0.24dB |
| 5 | Spurious emissions,conducted | 0.21dB |
| 6 | All emissions,radiated(<1G) | 4.68dB |
| 7 | All emissions,radiated(>1G) | 4.89dB |



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3 Test Facility

The test facility is recognized, certified or accredited by the following organizations:

.CNAS- Registration No: L6177

Dongguan Yaxu (AiT) technology Limited is accredited to ISO/IEC 17025:2005 general Requirements for the competence of testing and calibration laboratories (CNAS-CL01 Accreditation Criteria for the competence of testing and calibration laboratories) on Apr. 18, 2016

.FCC- Registration No: 248337

The 3m Semi-Anechoic Chamber, 3m/10m Open Area Test Site and Shielding Room of Dongguan Yaxu (AiT) Technology Limited have been registered by Federal Communications Commission (FCC) on Aug.29, 2015.

.Industry Canada(IC)-Registration No: IC6819A-1

The 3m Semi-Anechoic Chamber and 3m/10m Open Area Test Site of Dongguan Yaxu (AiT) Technology Limited have been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing on Oct. 01, 2014.

.VCCI- Registration No: 2705

The 3m/10m Open Area Test Site, Shielding Room and 3m Chamber of Dongguan Yaxu (AiT) Technology Limited have been registered by Voluntary Control Council for Interference on Nov. 21, 2012. The Telecommunication Ports Conducted Disturbance Measurement of Dongguan Yaxu (AiT) Technology Limited have been registered by Voluntary Control Council for Interference on May. 13, 2013.

3.1 Deviation from standard

None

3.2 Abnormalities from standard conditions

None



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4 General Information

4.1 General Description of EUT

| Manufacturer: | Gongdong Flexwarm Advanced Materials&Technology Co.,Ltd. |
|------------------------|--|
| Manufacturer Address: | Chuangyiyuan Zi Ni Tang. 7Xi An Road,Panyu District,Guanghou City,Guangdong Province,P.R.China |
| EUT Name: | MULTI-ZONE BLUETOOTH HEATED JACKET |
| Model No: | F-GA010 |
| Derivative model No.: | B-C3T4-Coat, F-GA009, F-GA101,F-GA102,F-GA103, F-GA104, F-GA105, F-GA106, F-GA107,F-GA108, F-GA109, F-GA110 |
| Operation frequency: | 2402 MHz to 2480 MHz |
| NUMBER OF CHANNEL: | 40 |
| Modulation Technology: | GFSK |
| Bluetooth version: | BT4.0 BLE |
| Antenna Type: | PCB Antenna |
| Antenna Gain: | maximum 5.3dBi |
| H/W No.: | FW-KS-A |
| S/W No.: | V1.0 |
| Brand Name: | Flexwarm |
| Serial No: | N/A |
| Power Supply Range: | DC 5V 2A from USB plug |
| Power Supply: | The same as above. |
| Power Cord: | N/A |
| Output power (max) : | 0.73dBm |
| Note: | All models of samples are different only in exterior style, color and model. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual. |



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| | Description of | Channel: | |
|---------|-----------------|----------|-----------------|
| Channel | Frequency (MHz) | Channel | Frequency (MHz) |
| 00 | 2402 | 20 | 2442 |
| 01 | 2404 | 21 | 2444 |
| 02 | 2406 | 22 | 2446 |
| 03 | 2408 | 23 | 2448 |
| 04 | 2410 | 24 | 2450 |
| 05 | 2412 | 25 | 2452 |
| 06 | 2414 | 26 | 2454 |
| 07 | 2416 | 27 | 2456 |
| 08 | 2418 | 28 | 2458 |
| 09 | 2420 | 29 | 2460 |
| 10 | 2422 | 30 | 2462 |
| 11 | 2424 | 31 | 2464 |
| 12 | 2426 | 32 | 2466 |
| 13 | 2428 | 33 | 2468 |
| 14 | 2430 | 34 | 2470 |
| 15 | 2432 | 35 | 2472 |
| 16 | 2434 | 36 | 2474 |
| 17 | 2436 | 37 | 2476 |
| 18 | 2438 | 38 | 2478 |
| 19 | 2440 | 39 | 2480 |

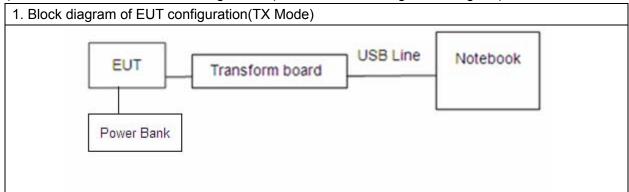


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4.2 Description of Test conditions

(1) EUT was tested in normal configuration (Please See following Block diagram)



Note:

- 1. The EUT was powered by power bank and programmed to be in continuously transmitting mode and the transmit duty cycle is not less than 98%.
- 2. Using the notebook and the transform board to control the fixed transmitting frequency and other test mode. After finishing the test setting, the notebook and the transform board will be removed during measurements.

(2) E.U.T. test conditions:

15.31(e): For intentional radiators, measurements of the variation of the input power or the adiated signal level of the fundamental frequency component of the emission, as appropriate, shall be performed with the supply voltage varied between 85% and 115% of the nominal rated supply voltage. For battery operated equipment, the equipment tests shall be performed using a new battery.

(3) Test frequencies:

According to the 15.31(m) Measurements on intentional radiators or receivers, other than TV broadcast receivers, shall be performed and. If required reported for each band in which the device can be operated with the device operating at the number of frequencies in each band specified in the following table:

| Frequency range over | Number of | Location in |
|-----------------------|-------------|-------------------------------|
| which device operates | frequencies | the range of operation |
| 1 MHz or less | 1 | Middle |
| 1 to 10 MHz | 2 | 1 near top and 1 near bottom |
| More than 10 MHz | 2 | 1 near top, 1 near middle and |
| More than 10 MHz | 3 | 1 near bottom |

(4) Frequency range of radiated measurements:

According to the 15.33, the test range will be up to the tenth harmonic of the highest fundamental frequency.



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4.3 Test Peripheral List

| No. | Equipment | Manufacturer | Model No. | Serial No. | Power cord | signal cable |
|-----|-----------------|--------------|-----------|------------|------------|--------------------------------|
| 1 | Notebook | ASUS | N/A | X401A | X16-96072 | N/A |
| 2 | USB line | N/A | N/A | N/A | N/A | 0.3m/unshielded /detachable |
| 3 | Transform board | N/A | N/A | N/A | N/A | N/A |
| 4 | Adapter | Salcom | A1385 | N/A | N/A | N/A |
| 5 | Power Bank | PN | P12500D | N/A | N/A | N/A |

4.4 EUT Peripheral List

| N | lo. | Equipment | Manufacturer | EMC Compliance | Model No. | Serial No. | Power cord | Remark |
|---|-----|-----------|--------------|-------------------|-----------|------------|------------|--------|
| | 1 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |



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5 Equipments List for All Test Items

| No | Test Equipment | Manufacturer | Model No | Serial No | Cal. Date | Cal. Due Date |
|----|--|--------------|------------------|-------------|------------|------------------|
| 1 | SIGNAL ANALYZER | R&S | FSV40 | 101470 | 2016.06.29 | 2017.06.28 |
| 2 | EMI Measuring Receiver | R&S | ESR | 101660 | 2016.06.29 | 2017.06.28 |
| 3 | Low Noise Pre Amplifier | Tsj | MLA-10K01-B01-27 | 1205323 | 2016.06.29 | 2017.06.28 |
| 4 | Low Noise Pre Amplifier | Tsj | MLA-0120-A02-34 | 2648A04738 | 2016.06.29 | 2017.06.28 |
| 5 | TRILOG Super Broadband test Antenna | SCHWARZBECK | VULB9160 | 9160-3206 | 2016.06.29 | 2017.06.28 |
| 6 | Broadband Horn Antenna | SCHWARZBECK | BBHA9120D | 452 | 2016.06.29 | 2017.06.28 |
| 7 | SHF-EHF Horn | SCHWARZBECK | BBHA9170 | BBHA9170367 | 2016.06.29 | 2017.06.28 |
| 8 | 50Ω Coaxial Switch | Anritsu | MP59B | 6200264416 | 2016.06.29 | 2017.06.28 |
| 9 | EMI Test Receiver | R&S | ESCI | 100124 | 2016.06.29 | 2017.06.28 |
| 10 | LISN | Kyoritsu | KNW-242 | 8-837-4 | 2016.06.29 | 2017.06.28 |
| 11 | LISN | Kyoritsu | KNW-407 | 8-1789-3 | 2016.06.29 | 2017.06.28 |
| 12 | 50Ω Coaxial Switch | Anritsu | MP59B | 6200264417 | 2016.06.29 | 2017.06.28 |
| 13 | Loop Antenna | ETS | 6512 | 00165355 | 2016.06.29 | 2017.06.28 |
| 14 | Radiated Cable 1# (30MHz-1GHz) | FUJIKURA | 5D-2W | 01 | 2015.12.25 | 2016.12.24 |
| 15 | Radiated Cable 2# (1GHz -25GHz) | FUJIKURA | 10D2W | 02 | 2015.12.25 | 2016.12.24 |
| 16 | Conducted Cable 1#(9KHz-30MHz) | FUJIKURA | 1D-2W | 01 | 2015.12.25 | 2016.12.24 |
| 17 | SMA Antenna connector | Dosin | Dosin-SMA | N/A | N/A | N/A |

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



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6 Test Result

6.1 Antenna Requirement

6.1.1 Standard requirement

15.203 requirement: For intentional device, according to 15.203: an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

15.247(c) (1)(i) requirement: (i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.

6.1.2 EUT Antenna

The antenna is layout on PCB in the EUT and no consideration of replacement. Antenna gain is maximum 5.3dBi from 2.4GHz to 2.5GHz.

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6.2 Conduction Emissions Measurement

6.2.1 Applied procedures / Limit

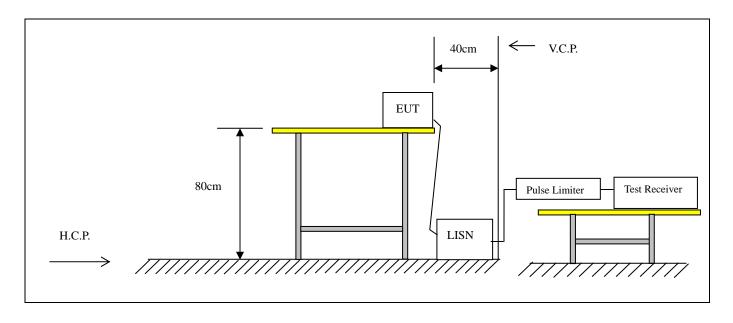
| Frequency of Emission (MHz) | Conducted Limit (dBµV) | | |
|-----------------------------|------------------------|------------|--|
| | Quasi-peak | Average | |
| 0.15-0.5 | 66 to 56 * | 56 to 46 * | |
| 0.5-5 | 56 | 46 | |
| 5-30 | 60 | 50 | |

Note: Decreases with the logarithm of the frequency.

6.2.2 Test procedure

EUT was placed upon a wooden test table 0.8m above the horizontal metal reference plane and 0.4m from the vertical ground plane, and it was connected to an AMN. The closest distance between the boundary of the EUT and the surface of the AMN is 0.8m. All peripherals were connected to another AMN, and placed at a distance of 10cm from each other. A spectrum and was connected to the RF output port of the AMN. Both average and quasi-peak value were detected.

6.2.3 Test setup





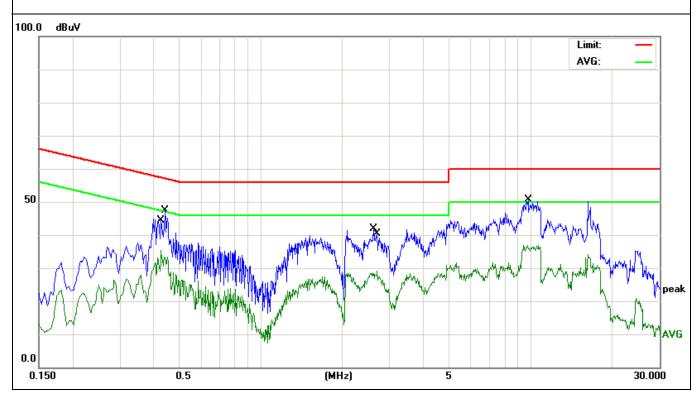
6.2.4 Test results

| IFUT. | MULTI-ZONE BLUETOOTH HEATED JACKET | Model Name. : | F-GA010 | |
|--|---------------------------------------|--------------------|------------|--|
| Temperature: | 26 ℃ | Relative Humidity: | 54% | |
| Pressure: | 1010hPa | Test Date : | 2016-10-18 | |
| Test Mode: | TX CH00 (worst case) | Phase : | Line | |
| Test Voltage: DC 5V from adapter, AC 120V/60Hz for adapter | | | | |

| Frequency (MHz) | Meter Reading (dBµV) | Factor(dB) | Emission Level (dBµV) | Limits (dBµV) | Margin (dB) | Detector |
|--------------------|----------------------|------------|-----------------------|---------------|-------------|------------|
| 0.4420 | 37.36 | 10.08 | 47.44 | 57.02 | -9.58 | Quasi-Peak |
| 0.4260 | 25.32 | 10.10 | 35.42 | 47.33 | -11.91 | Average |
| 2.6140 | 31.96 | 10.01 | 41.97 | 56.00 | -14.03 | Quasi-Peak |
| 2.7060 | 18.98 | 10.03 | 29.01 | 46.00 | -16.99 | Average |
| 9.7700 | 40.46 | 10.24 | 50.70 | 60.00 | -9.30 | Quasi-Peak |
| 9.7100 | 26.75 | 10.23 | 36.98 | 50.00 | -13.02 | Average |

Remark:

1. Factor = Insertion Loss + Cable Loss + Pulse limit.



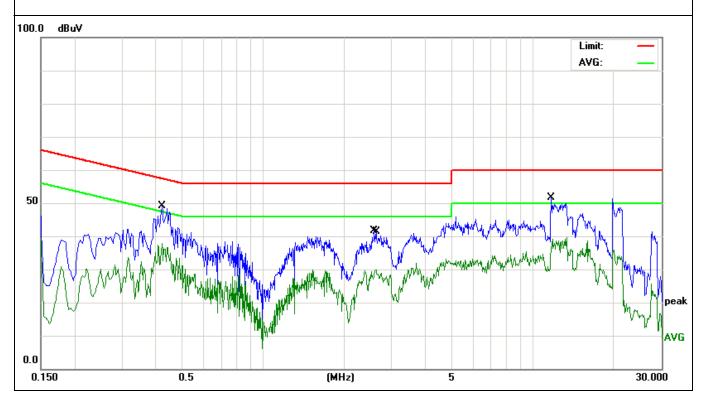


| FUT. | MULTI-ZONE BLUETOOTH HEATED JACKET | Model Name. : | F-GA010 | | | |
|---------------|--|--------------------|------------|--|--|--|
| Temperature: | 26 ℃ | Relative Humidity: | 54% | | | |
| Pressure: | 1010hPa | Test Date : | 2016-10-18 | | | |
| Test Mode: | TX CH00 (worst case) | Phase : | Neutral | | | |
| Test Voltage: | DC 5V from adapter, AC 120V/60Hz for adapter | | | | | |

| Frequency (MHz) | Meter Reading (dBµV) | Factor(dB) | Emission Level (dBµV) | Limits (dBµV) | Margin (dB) | Detector |
|--------------------|----------------------|------------|-----------------------|---------------|-------------|------------|
| 0.4220 | 39.12 | 10.11 | 49.23 | 57.41 | -8.18 | Quasi-Peak |
| 0.4220 | 27.88 | 10.11 | 37.99 | 47.41 | -9.42 | Average |
| 2.5900 | 31.64 | 10.01 | 41.65 | 56.00 | -14.35 | Quasi-Peak |
| 2.6300 | 19.90 | 10.02 | 29.92 | 46.00 | -16.08 | Average |
| 11.7100 | 41.26 | 10.31 | 51.57 | 60.00 | -8.43 | Quasi-Peak |
| 11.8300 | 28.79 | 10.31 | 39.10 | 50.00 | -10.90 | Average |

Remark:

1. Factor = Insertion Loss + Cable Loss + Pulse limit.





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6.3 Radiated Emissions Measurement

6.3.1 Applied procedures / Limit

15.247(d) In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

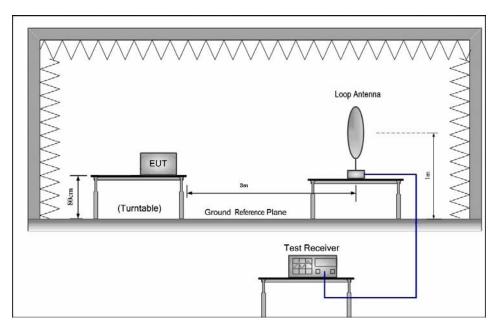
| Francisco of Francisco (MILE) | Field Stre | Field Strength | | |
|-------------------------------|--------------|----------------|-------------------|--|
| Frequency of Emission (MHz) | μV/m | dBμV/m | Distance (meters) | |
| 0.009-0.49 | 2400/F(kHz) | | 300 | |
| 0.49-1.705 | 24000/F(kHz) | | 30 | |
| 1.705-30 | 30 | | 30 | |
| 30-88 | 100 | 40 | 3 | |
| 88-216 | 150 | 43.5 | 3 | |
| 216-960 | 200 | 46 | 3 | |
| Above 960 | 500 | 54 | 3 | |



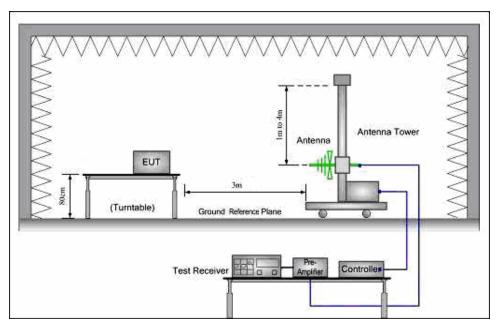
6.3.2 Test setup

Test Configuration:

1) 9 kHz to 30 MHz emissions:

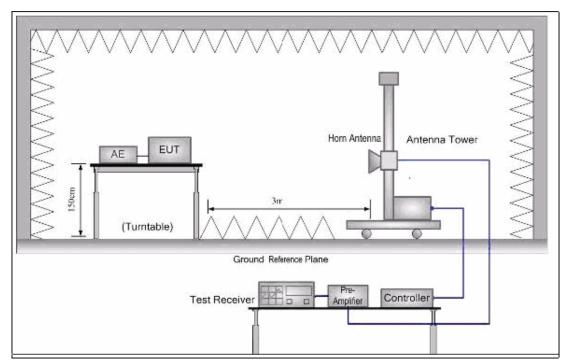


2) 30 MHz to 1 GHz emissions:





3) 1 GHz to 25 GHz emissions:





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6.3.3 Test procedure

a. The EUT was placed on the top of a wooden table 0.8 meters (for measurement at frequency below 1GHz) and a wooden table 1.5 meters (for measurement at frequency above 1GHz) above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.

- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter, for the test frequency of above 1GHz, horn antenna opening in the test would have been facing the EUT when rise or fall) and the table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet. The resolution bandwidth and video bandwidth of the test receiver was 1MHz and 1MHz for Peak detection at frequency above 1GHz.
- g. Test the EUT in the lowest channel (2402MHz), the middle channel (2440MHz), the Highest channel (2480MHz)
- h. Repeat above procedures until all frequencies measured was complete.

Pre-test the EUT in continuous transmitting mode with setup as stand-alone in X, Y, Z threes axes, found the worst case is X axes and report the data.

For measurement at frequency above 1GHz

Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.

In 18GHz to 25GHz, The EUT was checked by Horn ANT. But the test result at least have 20dB margin. The EUT was tested in Chamber Site.



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6.3.4 Test Result

Radiated Emissions Test Data Below 30MHz

| IFUT. | MULTI-ZONE BLUETOOTH HEATED JACKET | Model Name: | F-GA010 | | | |
|----------------------|--|--------------------|-----------------------|--|--|--|
| Temperature: | 25 ℃ | Test Data | 2016-10-18 | | | |
| Pressure: | 1005 hPa | Relative Humidity: | 60% | | | |
| Test Mode : | TX(1Mbps worst case) | Test Voltage: | DC 5V from power bank | | | |
| Measurement Distance | 3 m | Frenqucy Range | 9KHz to 30MHz | | | |
| RBW/VBW | 9KHz~150KHz/RB 200Hz for QP, 150KHz~30MHz/RB 9KHz for QP | | | | | |

No emission found between lowest internal used/generated frequencies to 30MHz.



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Radiated Emissions Test Data Below 1GHz

| EUT: | MULTI-ZONE BLUETOOTH | Model Name: | F-GA010 | | |
|----------------------|--|--------------------|-----------------------|--|--|
| | HEATED JACKET | | | | |
| Temperature: | 25 ℃ | Test Data | 2016-10-18 | | |
| Pressure: | 1010 hPa | Relative Humidity: | 60% | | |
| Test Mode: | TX (1Mbps) CH00 (worst case) | Test Voltage: | DC 5V from Power bank | | |
| Measurement Distance | 3 m | Frenqucy Range | 30MHz to 1GHz | | |
| RBW/VBW | 100KHz / 300KHz for spectrum, RBW=120KHz for receiver. | | | | |

(a) Antenna polarization: Horizontal

| Frequency | Reading | Correct | Measure | Limit | Margin | Detector Type |
|-----------|---------|---------|----------|----------|--------|---------------|
| (MHz) | Level | Factor | Level | (dBuV/m) | (dB) | |
| | (dBuV) | (dB) | (dBuV/m) | | | |
| 45.2166 | 29.64 | -14.47 | 15.17 | 40.00 | -24.83 | QUASIPEAK |
| 146.3735 | 34.34 | -15.37 | 18.97 | 43.50 | -24.53 | QUASIPEAK |
| 191.7450 | 36.55 | -14.75 | 21.80 | 43.50 | -21.70 | QUASIPEAK |
| 383.9318 | 32.12 | -7.45 | 24.67 | 46.00 | -21.33 | QUASIPEAK |
| 549.0195 | 29.76 | -3.58 | 26.18 | 46.00 | -19.82 | QUASIPEAK |
| *952.0937 | 35.75 | 3.77 | 39.52 | 46.00 | -6.48 | QUASIPEAK |

(b) Antenna polarization: vertical

| 2)7 therma polarization. Voltion | | | | | | | | |
|----------------------------------|---------|---------|----------|----------|--------|---------------|--|--|
| Frequency | Reading | Correct | Measure | Limit | Margin | Detector Type | | |
| (MHz) | Level | Factor | Level | (dBuV/m) | (dB) | | | |
| | (dBuV) | (dB) | (dBuV/m) | | | | | |
| *39.0245 | 45.42 | -16.64 | 28.78 | 40.00 | -11.22 | QUASIPEAK | | |
| 74.6569 | 41.22 | -19.19 | 22.03 | 40.00 | -17.97 | QUASIPEAK | | |
| 114.9169 | 36.36 | -14.15 | 22.21 | 43.50 | -21.29 | QUASIPEAK | | |
| 142.8243 | 36.65 | -15.60 | 21.05 | 43.50 | -22.45 | QUASIPEAK | | |
| 245.9509 | 35.38 | -13.90 | 21.48 | 46.00 | -24.52 | QUASIPEAK | | |
| 906.4824 | 31.17 | 2.83 | 34.00 | 46.00 | -12.00 | QUASIPEAK | | |

Note: "" means the worst case

Measurement Level = Reading Level + Factor Factor= Ant Factor + Cable Loss - Pre-amplifier



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Radiated Emissions Test Data Above 1GHz

| IFUT• | MULTI-ZONE BLUETOOTH HEATED JACKET | Model Name: | F-GA010 | | | |
|----------------------|---|--------------------|-----------------------|--|--|--|
| Temperature: | 25 ℃ | Test Data | 2016-10-18 | | | |
| Pressure: | 1010 hPa | Relative Humidity: | 60% | | | |
| Test Mode : | TX(1Mbps) | Test Voltage: | DC 5V from Power bank | | | |
| Measurement Distance | 3 m | Frenqucy Range | 1GHz to 25GHz | | | |
| RBW/VBW | Spurious emission: 1MHz/1MHz for Peak, 1MHz/10Hz for Average. | | | | | |
| RDVV/VDVV | non-restricted band: 100KHz/300KHz for Peak. | | | | | |

(a) Antenna polarization: Horizontal

| <u> </u> | | | | | | | | |
|-----------|---------|---------|----------|----------|--------|----------|--|--|
| Frequency | Reading | Correct | Measure | Limit | Margin | Detector | | |
| (MHz) | Level | Factor | Level | (dBuV/m) | (dB) | Туре | | |
| | (dBuV) | (dB) | (dBuV/m) | | | | | |
| 4804.000 | 53.17 | 5.06 | 58.23 | 74.00 | -15.77 | PEAK | | |
| *4804.000 | 42.58 | 5.06 | 47.64 | 54.00 | -6.36 | AVERAGE | | |
| 7206.000 | 43.36 | 7.03 | 50.39 | 74.00 | -23.61 | PEAK | | |
| 7206.000 | 32.94 | 7.03 | 39.97 | 54.00 | -14.03 | AVERAGE | | |

(b) Antenna polarization: Vertical

| Frequency | Reading | Correct | Measure | Limit | Margin | Detector |
|-----------|---------|---------|----------|----------|--------|----------|
| (MHz) | Level | Factor | Level | (dBuV/m) | (dB) | Туре |
| | (dBuV) | (dB) | (dBuV/m) | | | |
| 4804.000 | 48.27 | 5.06 | 53.33 | 74.00 | -20.67 | PEAK |
| *4804.000 | 36.44 | 5.06 | 41.50 | 54.00 | -12.50 | AVERAGE |
| 7206.000 | 43.65 | 7.03 | 50.68 | 74.00 | -23.32 | PEAK |
| 7206.000 | 32.29 | 7.03 | 39.32 | 54.00 | -14.68 | AVERAGE |

Note: '*' means the worst case

8~25GHz at least have 20dB margin. No recording in the test report.

Measurement Level = Reading Level + Factor Factor= Ant Factor + Cable Loss - Pre-amplifier

Low Channel 00: 2402 MHz

Data rate: 1Mbps



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(a) Antenna polarization: Horizontal

| Frequency | Reading | Correct | Measure | Limit | Margin | Detector |
|-----------|---------|---------|----------|----------|--------|----------|
| (MHz) | Level | Factor | Level | (dBuV/m) | (dB) | Туре |
| | (dBuV) | (dB) | (dBuV/m) | | | |
| 4884.000 | 48.41 | 5.14 | 53.55 | 74.00 | -20.45 | PEAK |
| *4880.000 | 37.25 | 5.14 | 42.39 | 54.00 | -11.61 | AVERAGE |
| 7326.000 | 42.83 | 7.52 | 50.35 | 74.00 | -23.65 | PEAK |
| 7326.000 | 31.92 | 7.52 | 39.44 | 54.00 | -14.56 | AVERAGE |

(b) Antenna polarization: Vertical

| () | (a) / thomas polarization. Voltage | | | | | | |
|-----------|------------------------------------|---------|----------|----------|--------|----------|--|
| Frequency | Reading | Correct | Measure | Limit | Margin | Detector | |
| (MHz) | Level | Factor | Level | (dBuV/m) | (dB) | Туре | |
| | (dBuV) | (dB) | (dBuV/m) | | | | |
| 4884.000 | 47.43 | 5.14 | 52.57 | 74.00 | -21.43 | PEAK | |
| *4880.000 | 35.92 | 5.14 | 41.06 | 54.00 | -12.94 | AVERAGE | |
| 7326.000 | 43.46 | 7.52 | 50.98 | 74.00 | -23.02 | PEAK | |
| 7326.000 | 32.87 | 7.52 | 40.39 | 54.00 | -13.61 | AVERAGE | |

Note: '*' means the worst case

8~25GHz at least have 20dB margin. No recording in the test report.

Measurement Level = Reading Level + Factor Factor= Ant Factor + Cable Loss - Pre-amplifier

Low Channel 20: 2442 MHz

Data rate: 1Mbps



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(a) Antenna polarization: Horizontal

| Frequency | Reading | Correct | Measure | Limit | Margin | Detector |
|-----------|---------|---------|----------|----------|--------|----------|
| (MHz) | Level | Factor | Level | (dBuV/m) | (dB) | Туре |
| | (dBuV) | (dB) | (dBuV/m) | , | , | 31 |
| 4960.000 | 50.67 | 5.14 | 55.81 | 74.00 | -18.19 | PEAK |
| *4960.000 | 36.24 | 5.14 | 41.38 | 54.00 | -12.62 | AVERAGE |
| 7440.000 | 43.84 | 7.52 | 51.36 | 74.00 | -22.64 | PEAK |
| 7440.000 | 32.69 | 7.52 | 40.21 | 54.00 | -13.79 | AVERAGE |

(b) Antenna polarization: Vertical

| Frequency | Reading | Correct | Measure | Limit | Margin | Detector |
|-----------|---------|---------|----------|----------|--------|----------|
| (MHz) | Level | Factor | Level | (dBuV/m) | (dB) | Туре |
| | (dBuV) | (dB) | (dBuV/m) | | | |
| 4960.000 | 48.42 | 5.14 | 53.56 | 74.00 | -20.44 | PEAK |
| *4960.000 | 35.39 | 5.14 | 40.53 | 54.00 | -13.47 | AVERAGE |
| 7440.000 | 43.66 | 7.52 | 51.18 | 74.00 | -22.82 | PEAK |
| 7440.000 | 32.25 | 7.52 | 39.77 | 54.00 | -14.23 | AVERAGE |

Note: '*' means the worst case

8~25GHz at least have 20dB margin. No recording in the test report.

Measurement Level = Reading Level + Factor Factor= Ant Factor + Cable Loss - Pre-amplifier

Low Channel 39: 2480 MHz

Data rate: 1Mbps



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6.3.5 TEST RESULTS (Restricted Bands Requirements)

| FUT. | MULTI-ZONE BLUETOOTH HEATED JACKET | Model Name: | F-GA010 | | |
|--------------|---|---|-------------------------|--|--|
| Temperature: | 25 ℃ | Test Data | 2016-10-18 | | |
| Pressure: | 1010 hPa | Relative Humidity: | 60% | | |
| Test Mode : | TX(1Mbps) | Test Voltage: | DC 5V from a Power bank | | |
| RBW/VBW | 1MHz/1MHz for Peak, 1MHz/10Hz | for Average. | | | |
| Note: | • | . The transmitter was setup to transmit at the lowest channel. Then the field strength was measured at 2310-2390 MHz. | | | |
| | 2. The transmitter was setup to transmit at the highest channel. Then the field | | | | |
| | strength was measured at 2483.5-2500 MHz. | | | | |
| | 3. The data of 2390MHz and 2483 | .5MHz was the wors | st. | | |

| Test | Ant.Pol. | Freq. | Reading | | Ant/CF | Act | | Limit | |
|-----------------|----------|---------|---------|--------|--------|----------|----------|----------|----------|
| Mode | H/V | (MHz) | Peak | AV | CF(dB) | Peak | AV | Peak | AV |
| | | | (dBuv) | (dBuv) | | (dBuv/m) | (dBuv/m) | (dBuv/m) | (dBuv/m) |
| | Н | 2390.00 | 42.87 | 30.45 | -5.79 | 37.08 | 24.66 | 74.00 | 54.00 |
| TX Data rate | V | 2390.00 | 41.69 | 32.73 | -5.79 | 35.90 | 26.94 | 74.00 | 54.00 |
| 1Mbps | Н | 2483.50 | 43.49 | 31.86 | -4.98 | 38.51 | 26.88 | 74.00 | 54.00 |
| | V | 2483.50 | 42.68 | 31.72 | -4.98 | 37.70 | 26.74 | 74.00 | 54.00 |



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6.4 BANDWIDTH TEST

6.4.1 Applied procedures / Limit

15.247(a) (2) Systems using digital modulation techniques may operate in the 902 - 928 MHz, 2400 - 2483.5 MHz, and 5725 - 5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

6.4.2 Test procedure

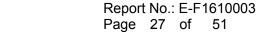
- a. The testing follows FCC KDB publication No. 558074 D01 DTS Meas. Guidance v03r05
- b. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- c. Spectrum Setting: RBW= 100KHz, VBW ≥ 3×RBW, Sweep time = Auto, Detector Function = Peak, centering on a hopping channel Trace = Max Hold.
- d Mark the peak frequency and -6 dB points bandwidth.

6.4.3 Deviation from standard

No deviation.

6.4.4 Test setup

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





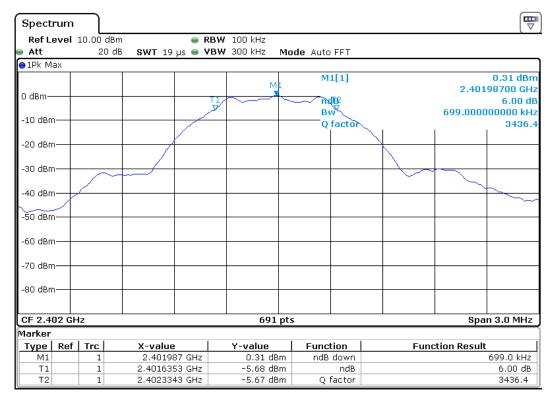
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6.4.5 Test results

| EUT: | MULTI-ZONE BLUETOOTH HEATED JACKET | Model Name: | F-GA010 |
|--------------|---------------------------------------|--------------------|--|
| Temperature: | 26 ℃ | Relative Humidity: | 53% |
| Pressure: | 1010 hPa | Hest Power • | DC 5V from adapter, AC 120V/60Hz for adapter |
| Test Mode: | TX(1Mbps) | | |

| Test Mode | Test Channel | Frequency | 6 dB Bandwidth | Limit |
|-----------------|---------------|-----------|----------------|-------|
| rest Mode | rest orialine | (MHz) | (KHz) | (kHz) |
| | CH00 | 2402 | 699.0 | ≥500 |
| Data rate 1Mbps | CH20 | 2442 | 699.0 | ≥500 |
| | CH39 | 2480 | 703.3 | ≥500 |

(1Mbps)
The Lowest Channel 00: 2402 MHz

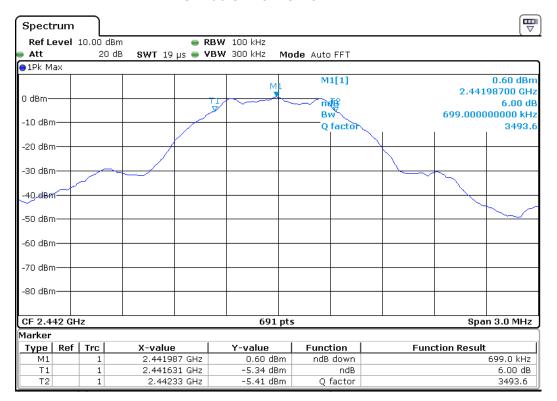


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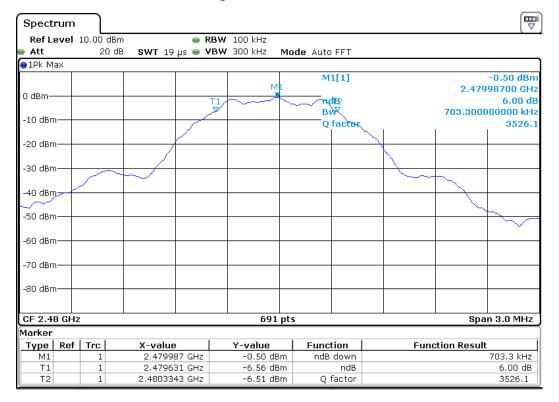
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(1Mbps) The Middle Channel 20: 2442 MHz



(1Mbps)
The High Channel 39: 2480MHz





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6.5 Peak Power Density

6.5.1 Applied procedures / Limit

15.247(a) (e) For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

6.5.2 Test procedure

- a. The testing follows Measurement procedure 10.2 Method PKPSD of FCC KDB publication No. 558074 D01 DTS Meas. Guidance v03r05
- b. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- c. Connected the antenna port to the Spectrum Analyzer, set the Spectrum Analyzer as center frequency to channel center frequency, span=1.5 times the bandwith, detector = peak 3kHz≤RBW≤100kHz, VBW≥3×RBW kHz, Sweep time=Auto.
- d. Trace mode = max hold. Mark the peak.
- e. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

6.5.3 Deviation from standard

No deviation.



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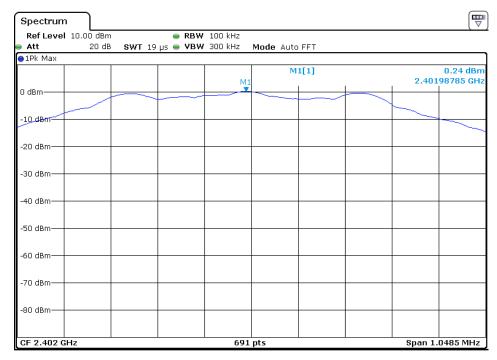
6.5.4 Test results

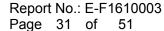
| IFUT. | MULTI-ZONE HEATED JACKET | BLUETOOTH | Model Name: | F-GA010 |
|--------------|-----------------------------|-----------|--------------------|--------------------------|
| | 24 °C | | Relative Humidity: | E20/ |
| remperature: | 24 (| | Relative Humbily: | 33% |
| Droccuro | 1040 hD- | | Test Power: | DC 5V from adapter, |
| Pressure: | 1010 hPa | | rest Power: | AC 120V/60Hz for adapter |
| Test Mode: | TX(1Mbps) | | | |

| Test Mode | Channel frenqucy (MHz) | Power Density PSD 100kHz (dBm/100kHz) | Limit (dBm/3kHz) | Result |
|------------|---------------------------|---------------------------------------|---------------------|--------|
| TV | 2402 | 0.24 | 8 | Pass |
| TX (1Mbps) | 2442 | 0.53 | 8 | Pass |
| (1Mbps) | 2480 | -0.49 | 8 | Pass |

Note: The cable loss is 0.5dB

PSD 100kHz (1Mbps)
The Lowest Channel 00: 2402MHz

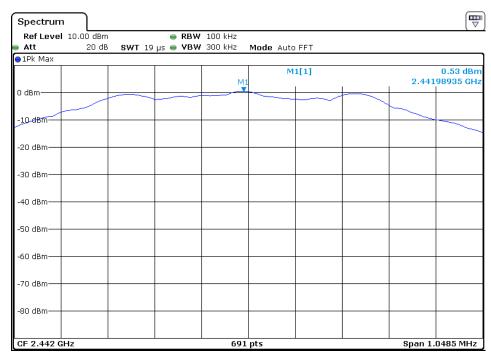




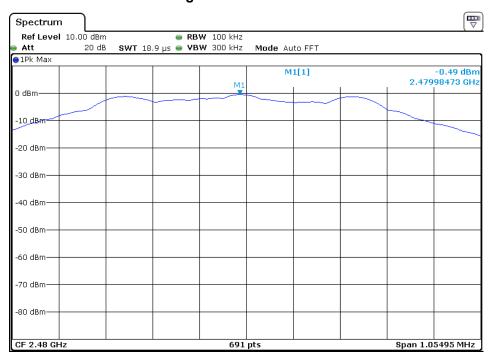
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PSD 100kHz (1Mbps) The Middle Channel 20: 2442MHz



PSD 100kHz (1Mbps) The High Channel 39: 2480MHz





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6.6 Maximum Peak Output Power

6.6.1 Applied procedures / Limit

15.247(b) (3) For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.

6.6.2 Test procedure

- a The testing follows FCC KDB publication No. 558074 D01 DTS Meas. Guidance v03r05
- b. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- ^{C.} Spectrum Setting: RBW≥Bandwidth, VBW≥3×RBW, Sweep time = Auto, Span≥3×RBW,
- d Detector = peak. Trace mode = max hold.
- e Use peak marker function to determine the peak amplitude level.

6.6.3 Deviation from standard

No deviation.

6.6.4 Test setup

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



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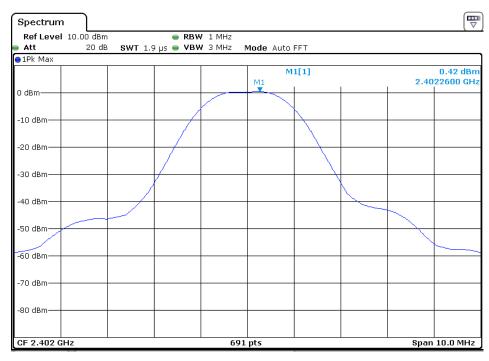
6.6.5 Test results

| IFUT. | MULTI-ZONE HEATED JACKET | BLUETOOTH | Model Name: | F-GA010 |
|--------------|-----------------------------|-----------|--------------------|---|
| Temperature: | 26 ℃ | | Relative Humidity: | 60% |
| Pressure: | 1010 hPa | | Test Voltage: | DC 5V from adapter, AC 120V/60Hz for adapter |
| Test Mode: | TX (1Mbps) | | | |
| Note: N/A | | | | |

| Test Mode | Frequency | Peak Output Power (dBm) | Limit (dBm) | Result |
|-----------------|-----------|-------------------------|----------------|--------|
| Data rate 1Mbps | 2402 MHz | 0.42 | 30 | Pass |
| | 2442 MHz | 0.73 | 30 | Pass |
| | 2480 MHz | -0.28 | 30 | Pass |

Note: The cable loss is 0.5dB

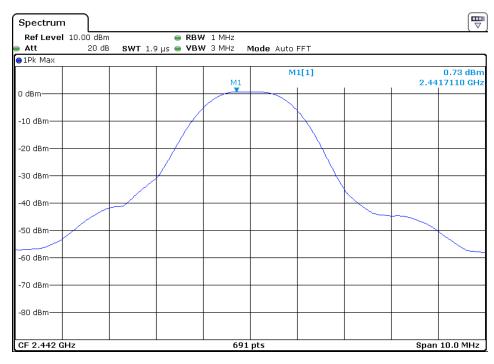
(1Mbps)
The Lowest Channel 00: 2402MHz



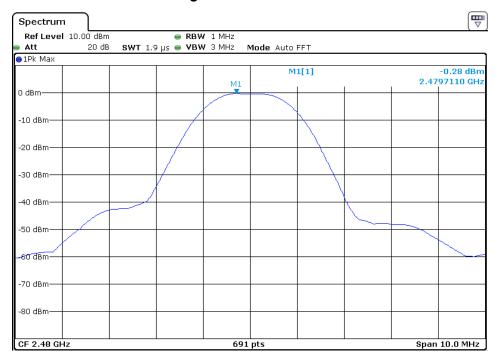
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(1Mbps)
The Middle Channel 20: 2442MHz



(1Mbps)
The High Channel 39: 2480MHz





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6.7 Band edge

6.7.1 Applied procedures / Limit

15.247(d) In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

6.7.2 Test procedure

- a. The testing follows FCC KDB publication No. 558074 D01 DTS Meas. Guidance v03r05
- b. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- c. Spectrum Setting: RBW=100kHz, VBW≧300kHz, Sweep time=Auto, Detector Function=Peak.
- d. The band edges was measured and recorded Result:

The Lower Edges attenuated more than 20dB.

The Upper Edges attenuated more than 20dB.

6.7.3 Deviation from standard

No deviation.

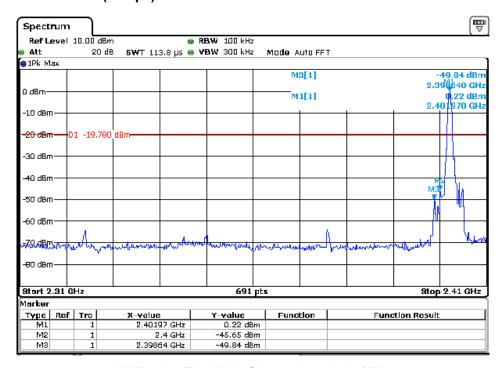
6.7.4 Test setup

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

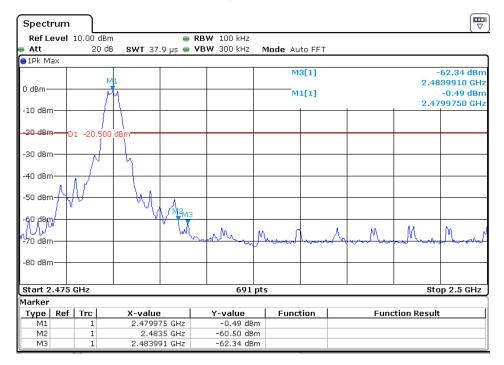


6.7.5 Test results

(1Mbps) The Lowest Channel 00: 2402MHz



(1Mbps) The High Channel 39: 2480MHz





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6.8 Conducted Spurious Emissions

6.8.1 Applied procedures / Limit

15.247(d) In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

6.8.2 Test procedure

- a The testing follows FCC KDB publication No. 558074 D01 DTS Meas. Guidance v03r05
- b. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- c. Spectrum Setting: RBW=100kHz, VBW=300kHz, Sweep time=Auto, Detector Function=Peak, sweep points ≥ investigated frequency range/RBW.

6.8.3 Deviation from standard

No deviation.

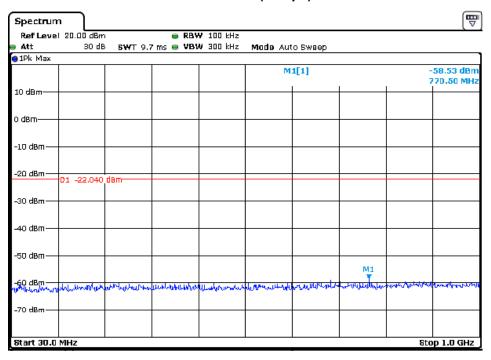
6.8.4 Test setup



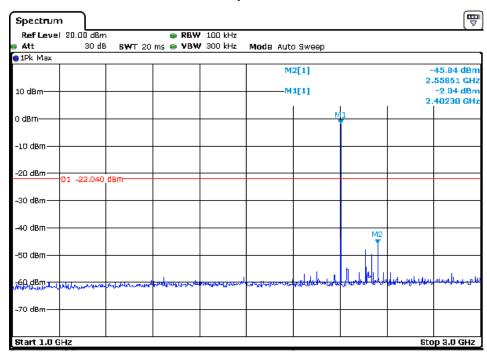
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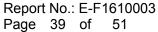
6.8.5 Test results

The Lowest Channel 00 (1Mbps): 2402MHz



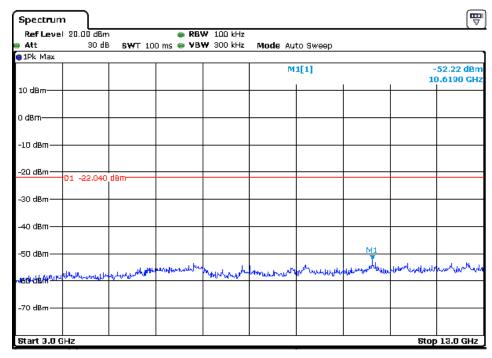
Note: Sweep Points=9700



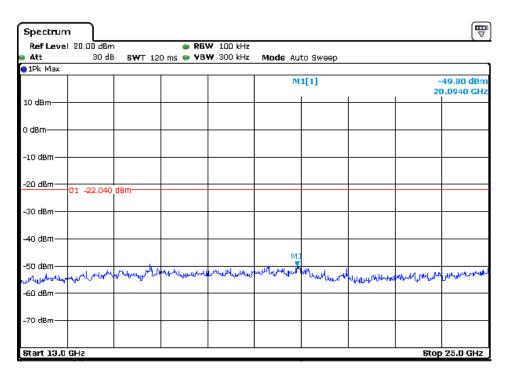


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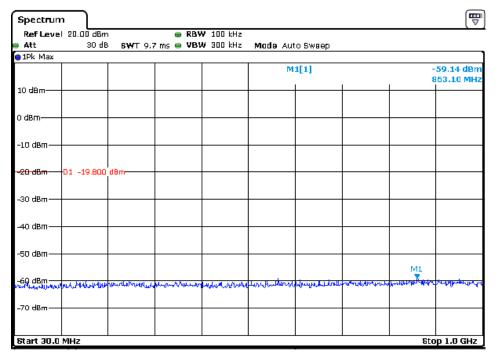
Note: Sweep Points=100000



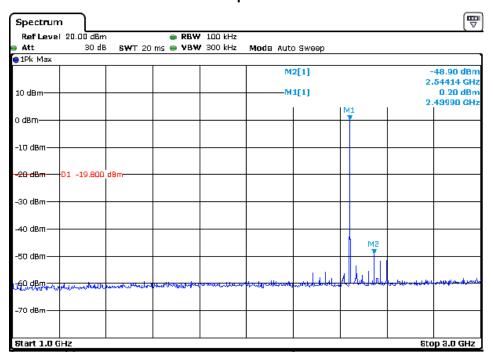




The Middle Channel 19(1Mbps): 2440MHz

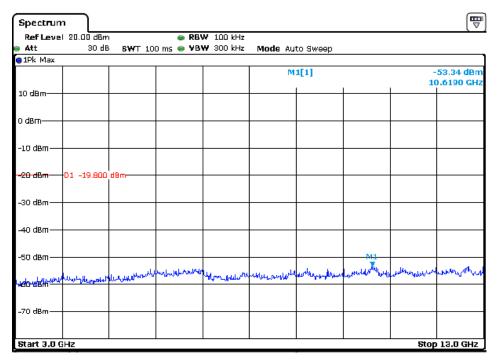


Note: Sweep Points=9700

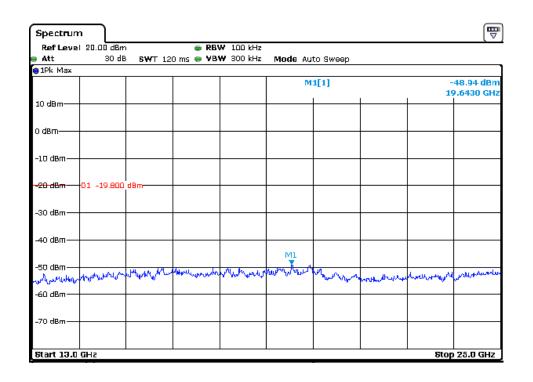








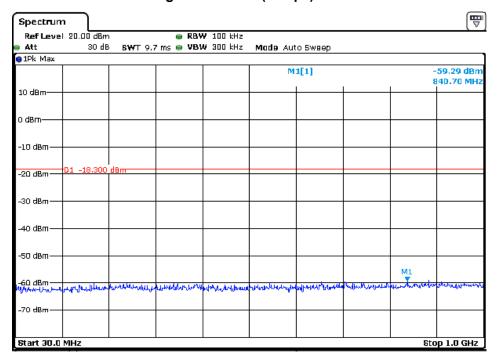
Note: Sweep Points=100000



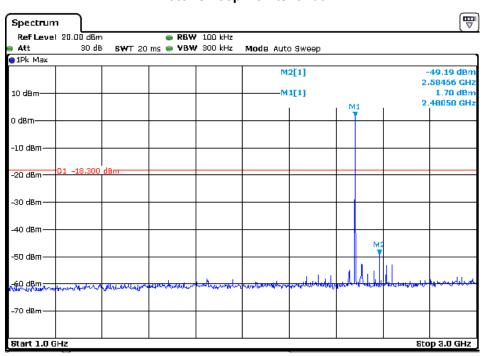
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The High Channel 39(1Mbps): 2480MHz

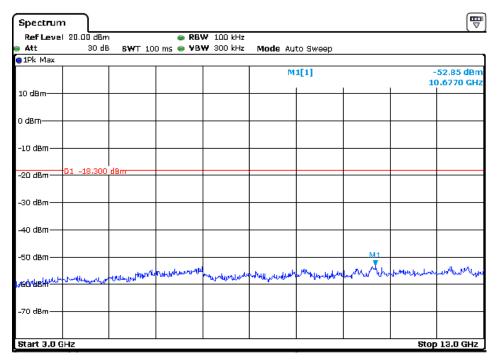


Note: Sweep Points=9700

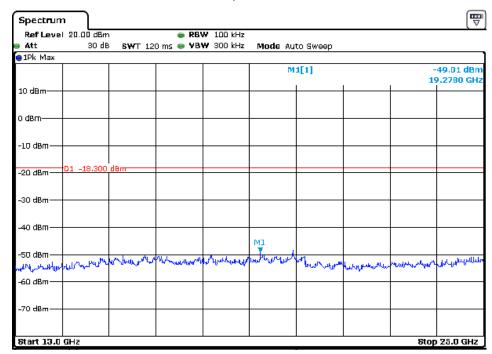














7 Photographs

7.1 Radiated Emission Test Setup





Above 1G





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7.2 Conducted Emissions Test Setup





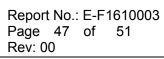


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7.3 EUT Constructional Details



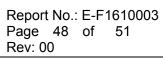








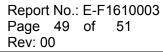




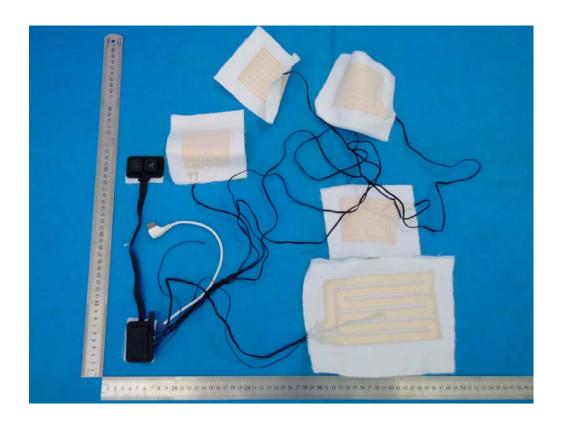


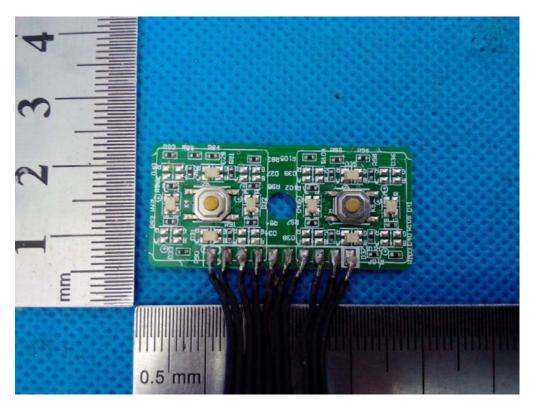


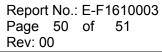




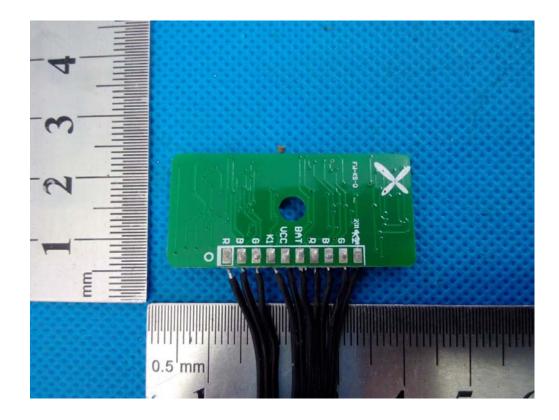


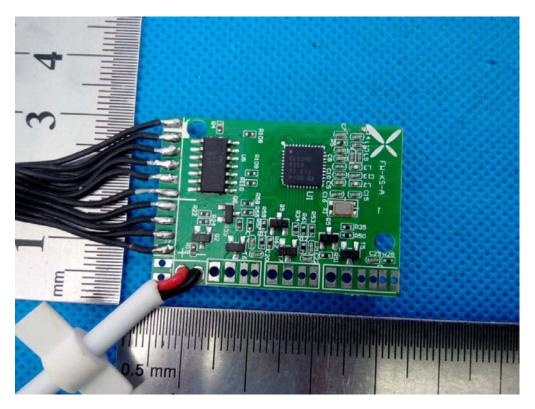


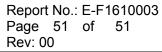




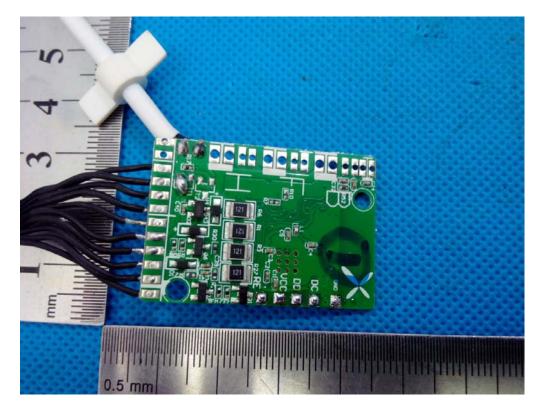












End of report