Shenzhen Huatongwei International Inspection Co., Ltd.



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Cron Con

TEST REPORT

Report Reference No.....: TRE1510017004 R/C.....: 32128

FCC ID...... 2AEHF-SMARTLITE

Applicant's name.....: NOBUX, LLC

Address.....: 8600 NW SOUTH RIVER DR #103 MIAMI, FLORIDA 33166

Manufacturer...... NOBUX, LLC

Test item description...... Smart Lite

Trade Mark..... NOBUX

Model/Type reference.....: S3501

Listed Model(s)..... ---

Standard.....: FCC CFR Title 47 Part 15 Subpart C Section 15.247

Date of receipt of test sample............ Oct 28,2015

Date of testing...... Oct 29,2015- Nov 08,2015

Result.....: PASS

Compiled by

(position+printedname+signature)...: File administrators Candy Liu

Supervised by

(position+printed name+signature)..: Project Engineer Lion Cai

Approved by

(position+printed name+signature)..: RF Manager Hans Hu

Testing Laboratory Name...... Shenzhen Huatongwei International Inspection Co., Ltd

Address...... 1/F, Bldg 3, Hongfa Hi-tech Industrial Park, Genyu Road, Tianliao,

Gongming, Shenzhen, China

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Report No: TRE1510017004 Page: 2 of 32 Issued: 2015-11-10

Contents

| 1. | APPLICABLE STANDARDS AND TEST DESCRIPTION | 3 |
|------|---|-----|
| 1.1. | Applicable Standards | 3 |
| 1.2. | Test Description | 3 |
| 2. | SUMMARY | 4 |
| 2.1. | Client Information | 4 |
| 2.2. | Product Description | 4 |
| 2.3. | Operation state | 4 |
| 2.4. | EUT configuration | 5 |
| 2.5. | Modifications | 5 |
| 3. | TEST ENVIRONMENT | 6 |
| 3.1. | Address of the test laboratory | 6 |
| 3.2. | Test Facility | 6 |
| 3.3. | Equipments Used during the Test | 7 |
| 3.4. | Environmental conditions | 8 |
| 3.5. | Statement of the measurement uncertainty | 8 |
| 4. | TEST CONDITIONS AND RESULTS | 9 |
| 4.1. | Antenna requirement | 9 |
| 4.2. | Conducted Emission (AC Main) | 10 |
| 4.3. | Conducted Peak Output Power | 15 |
| 4.4. | Power Spectral Density | 16 |
| 4.5. | 6dB bandwidth | 18 |
| 4.6. | Restricted band (Conducted) | 20 |
| 4.7. | Band edge and Spurious Emission (conducted) | 22 |
| 4.8. | Spurious Emission (radiated) | 26 |
| 5. | TEST SETUP PHOTOS OF THE EUT | 31 |
| 6 | EYTERNAL AND INTERNAL BHOTOS OF THE FUT | 2.1 |

Report No: TRE1510017004 Page: 3 of 32 Issued: 2015-11-10

1. APPLICABLE STANDARDS AND TEST DESCRIPTION

1.1. Applicable Standards

The tests were performed according to following standards:

<u>FCC Rules Part 15.247:</u> Frequency Hopping, Direct Spread Spectrum and Hybrid Systems that are in operation within the bands of 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz.

ANSI C63.10-2013: American National Standard for Testing Unlicensed Wireless Devices

<u>KDB558074 D01 V03R02:</u> Guidance for Performing Compliance Measurements on Digital Transmission Systems (DTS)

1.2. Test Description

| Report Section | Test Item | FCC Rule | Result |
|----------------|-----------------------------------|-------------------|--------|
| 4.1 | Antenna requirement | 15.203/15.247 (c) | Pass |
| 4.2 | Line Conducted Emission (AC Main) | 15.207 | Pass |
| 4.3 | Conducted Peak Output Power | 15.247 (b)(3) | Pass |
| 4.4 | Power Spectral Density | 15.247 (e) | Pass |
| 4.5 | 6dB Bandwidth | 15.247 (a)(2) | Pass |
| 4.6 | Restricted band | 15.247(d)/15.205 | Pass |
| 4.7/4.8 | Spurious Emission | 15.247(d)/15.209 | Pass |

Remark: The measurement uncertainty is not included in the test result.

Report No: TRE1510017004 Page: 4 of 32 Issued: 2015-11-10

2. **SUMMARY**

2.1. Client Information

| Applicant: | NOBUX, LLC |
|---------------|--|
| Address: | 8600 NW SOUTH RIVER DR #103 MIAMI, FLORIDA 33166 |
| Manufacturer: | NOBUX, LLC |
| Address: | 8600 NW SOUTH RIVER DR #103 MIAMI, FLORIDA 33166 |

2.2. Product Description

| Name of EUT | Smart Lite | |
|--------------------------|---------------------------------|--|
| Trade Mark: | ade Mark: NOBUX | |
| Model No.: | S3501 | |
| Listed Model(s): | | |
| Power supply: | DC 5V From internal battery | |
| Adapter information: | Input:AC 100-240V 50/60Hz 0.15A | |
| | Output:5Vd.c., 500mA | |
| Bluetooth | | |
| Version: | Supported BT4.0+BLE | |
| Modulation: | GFSK | |
| Operation frequency: | 2402MHz~2480MHz | |
| Channel number: | 40 | |
| Channel separation: 2MHz | | |
| Antenna type: | Internal Antenna | |
| Antenna gain: | 0.0dBi | |

2.3. Operation state

◆ Test frequency list

According to section 15.31(m), regards to the operating frequency range over 10 MHz, must select three channel which were tested. the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, please see the above gray bottom.

| Channel | Frequency (MHz) |
|---------|-----------------|
| 00 | 2402 |
| 02 | 2404 |
| i | ÷ |
| 19 | 2440 |
| i i | : |
| 38 | 2478 |
| 39 | 2480 |

♦ Test mode

For RF test items:

the engineering test program was provided and enabled to make EUT continuous transmit/receive.

For AC power line conducted emissions:

the EUT was set to connect with the WLAN AP under large package sizes transmission.

Report No: TRE1510017004 Page: 5 of 32 Issued: 2015-11-10

2.4. EUT configuration

The following peripheral devices and interface cables were connected during the measurement:

- supplied by the manufacturer
- \circ supplied by the lab

| 0 | Power Cable | Length (m): | 1 |
|---|-------------|----------------|---|
| | | Shield : | 1 |
| | | Detachable : | 1 |
| 0 | Multimeter | Manufacturer : | 1 |
| | | Model No. : | 1 |

2.5. Modifications

No modifications were implemented to meet testing criteria.

Report No: TRE1510017004 Page: 6 of 32 Issued: 2015-11-10

3. TEST ENVIRONMENT

3.1. Address of the test laboratory

Laboratory: Shenzhen Huatongwei International Inspection Co., Ltd.

Address: 1/F, Bldg 3, Hongfa Hi-tech Industrial Park, Genyu Road, Tianliao, Gongming, Shenzhen, China Phone: 86-755-26748019 Fax: 86-755-26748089

3.2. Test Facility

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

CNAS-Lab Code: L1225

Shenzhen Huatongwei International Inspection Co., Ltd. has been assessed and proved to be in compliance with CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories

(identical to ISO/IEC17025: 2005 General Requirements) for the Competence of Testing and Calibration Laboratories, Date of Registration: February 28, 2015. Valid time is until February 27, 2018.

A2LA-Lab Cert. No. 3902.01

Shenzhen Huatongwei International Inspection Co., Ltd. EMC Laboratory has been accredited by A2LA for tec hnical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing. Valid time is until December 31, 2016.

FCC-Registration No.: 317478

Shenzhen Huatongwei International Inspection Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FC C is maintained in our files. Registration 317478, Renewal date Jul. 18, 2014, valid time is until Jul. 18, 2017.

IC-Registration No.: 5377A&5377B

The 3m Alternate Test Site of Shenzhen Huatongwei International Inspection Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No. 5377A on Dec. 31, 2013, valid time is until Dec. 31, 2016.

Two 3m Alternate Test Site of Shenzhen Huatongwei International Inspection Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No. 5377B on Dec.03, 2014, valid time is until Dec.03, 2017.

ACA

Shenzhen Huatongwei International Inspection Co., Ltd. EMC Laboratory can also perform testing for the Aust ralian C-Tick mark as a result of our A2LA accreditation.

VCCI

The 3m Semi-

anechoic chamber (12.2m×7.95m×6.7m) of Shenzhen Huatongwei International Inspection Co., Ltd.

has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-2484. Date of Registration: Dec. 20, 2012. Valid time is until Dec. 29, 2015.

Radiated disturbance above 1GHz measurement of Shenzhen Huatongwei International Inspection Co., Ltd. h as been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-292. Date of Registration: Dec. 24, 2013. Valid time is until Dec. 23, 2016.

Main Ports Conducted Interference Measurement of Shenzhen Huatongwei International Inspection Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: C-2726. Date of Registration: Dec. 20, 2012. Valid time is until Dec. 19, 2015.

Telecommunication Ports Conducted Interference Measurement of Shenzhen Huatongwei International Inspection Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: T-1837. Date of Registration: May 07, 2013. Valid time is until May 06, 2016.

DNV

Shenzhen Huatongwei International Inspection Co., Ltd. has been found to comply with the requirements of D NV towards subcontractor of EMC and safety testing services in conjunction with the EMC and Low voltage Di rectives and in the voluntary field. The acceptance is based on a formal quality Audit and follow-ups according to relevant parts of ISO/IEC Guide 17025 (2005), in accordance with the requirements of the D NV Laboratory Quality Manual towards subcontractors. Valid time is until Aug. 24, 2016.

Report No: TRE1510017004 Page: 7 of 32 Issued: 2015-11-10

3.3. Equipments Used during the Test

| Cond | Conducted Emission (AC Main) | | | | |
|------|------------------------------|---------------|-------------|------------|------------|
| Item | Test Equipment | Manufacturer | Model No. | Serial No. | Last Cal |
| 1 | Artificial Mains | Rohde&Schwarz | ESH2-Z5 | 100028 | 2015/11/02 |
| 2 | EMI Test Receiver | Rohde&Schwarz | ESCI3 | 100038 | 2015/11/02 |
| 3 | Pulse Limiter | Rohde&Schwarz | ESHSZ2 | 100044 | 2015/11/02 |
| 4 | EMI Test Software | Rohde&Schwarz | ES-K1 V1.71 | N/A | N/A |

| Radia | Radiated Emission | | | | |
|-------|----------------------------|------------------------------|------------------------|------------|------------|
| Item | Test Equipment | Manufacturer | Model No. | Serial No. | Last Cal |
| 1 | Ultra-Broadband Antenna | ShwarzBeck | VULB9163 | 538 | 2015/11/02 |
| 2 | EMI TEST RECEIVER | Rohde&Schwarz | ESI 26 | 100009 | 2015/11/02 |
| 3 | EMI TEST Software | Audix | E3 | N/A | N/A |
| 4 | TURNTABLE | ETS | 2088 | 2149 | N/A |
| 5 | ANTENNA MAST | ETS | 2075 | 2346 | N/A |
| 6 | EMI TEST Software | Rohde&Schwarz | ESK1 | N/A | N/A |
| 7 | HORN ANTENNA | ShwarzBeck | 9120D | 1011 | 2015/11/02 |
| 8 | Amplifer | Sonoma | 310N | E009-13 | 2015/11/02 |
| 9 | JS amplifer | Rohde&Schwarz | JS4-00101800- 28-5A | F201504 | 2015/11/02 |
| 10 | High pass filter | Compliance Direction systems | BSU-6 | 34202 | 2015/11/02 |
| 11 | HORN ANTENNA | ShwarzBeck | 9120D | 1012 | 2015/11/02 |
| 12 | Amplifer | Compliance Direction systems | PAP1-4060 | 120 | 2015/11/02 |
| 13 | Loop Antenna | Rohde&Schwarz | HFH2-Z2 | 100020 | 2015/11/02 |
| 14 | TURNTABLE | MATURO | TT2.0 | | N/A |
| 15 | ANTENNA MAST | MATURO | TAM-4.0-P | | N/A |
| 16 | Horn Antenna | SCHWARZBECK | BBHA9170 | 25841 | 2015/11/02 |
| 17 | ULTRA-BROADBAND ANTENNA | Rohde&Schwarz | HL562 | 100015 | 2015/11/02 |

| Maxin | Maximum Peak Output Power / Power Spectral Density / 6dB Bandwidth / Band Edge Compliance of RF | | | | |
|-------|---|---------------|-----------|--------------|------------|
| Emiss | Emission / Spurious RF Conducted Emission | | | | |
| Item | Test Equipment | Manufacturer | Model No. | Serial No. | Last Cal |
| 1 | Spectrum Analyzer | Rohde&Schwarz | FSP | 1164.4391.40 | 2015/11/02 |
| 2 | Power Meter | Anritsu | MA2411B | 100258 | 2015/11/02 |

The Cal.Interval was one year

Report No: TRE1510017004 Page: 8 of 32 Issued: 2015-11-10

3.4. Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

| Temperature: | 15~35°C |
|------------------|-------------|
| lative Humidity: | 30~60 % |
| Air Pressure: | 950~1050mba |

3.5. Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to TR-100028-01" Electromagnetic compatibility and Radio spectrum Matters (ERM);Uncertainties in the measurement of mobile radio equipment characteristics;Part 1" and TR-100028-02 "Electromagnetic compatibilityand Radio spectrum Matters (ERM);Uncertainties in the measurement of mobile radio equipment characteristics;Part 2 " and is documented in the Shenzhen Huatongwei International Inspection Co., Ltd quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for Shenzhen Huatongwei laboratory is reported:

| Test Items | Measurement Uncertainty | Notes |
|---|-------------------------|-------|
| Transmitter power conducted | 0.57 dB | (1) |
| Transmitter power Radiated | 2.20 dB | (1) |
| Conducted spurious emission 9KHz-40 GHz | 1.60 dB | (1) |
| Radiated spurious emission 9KHz-40 GHz | 2.20 dB | (1) |
| Conducted Emission 9KHz-30MHz | 3.39 dB | (1) |
| Radiated Emission 30~1000MHz | 4.24 dB | (1) |
| Radiated Emissio 1~18GHz | 5.16 dB | (1) |
| Radiated Emissio 18-40GHz | 5.54 dB | (1) |
| Occupied Bandwidth | | (1) |

⁽¹⁾ This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=1.96.

Report No: TRE1510017004 Page: 9 of 32 Issued: 2015-11-10

4. TEST CONDITIONS AND RESULTS

4.1. Antenna requirement

Requirement

FCC CFR Title 47 Part 15 Subpart C 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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

FCC CFR Title 47 Part 15 Subpart C Section 15.247(c) (1)(i):

(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.

Test Result:

The antenna is integral antenna, the best case gain of the antenna is 0.0dBi



Report No: TRE1510017004 Page: 10 of 32 Issued: 2015-11-10

4.2. Conducted Emission (AC Main)

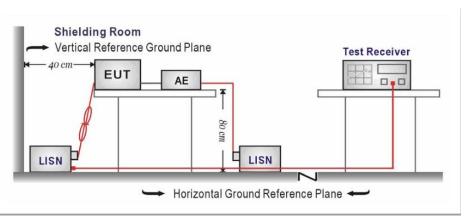
<u>LIMIT</u>

FCC CFR Title 47 Part 15 Subpart C Section 15.207

| Fraguenay rango (MHz) | Limit (dBuV) | | |
|-----------------------|--------------|-----------|--|
| Frequency range (MHz) | Quasi-peak | Average | |
| 0.15-0.5 | 66 to 56* | 56 to 46* | |
| 0.5-5 | 56 | 46 | |
| 5-30 | 60 | 50 | |

^{*} Decreases with the logarithm of the frequency.

TEST CONFIGURATION



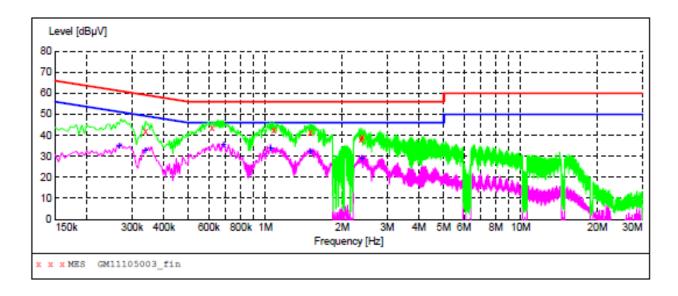
TEST PROCEDURE

- 1. The EUT was setup and tested according to ANSI C63.10: 2013 for compliance to FCC 47CFR 15.247 requirements.
- The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface.
- 3. The EUT and simulators are connected to the main power through a line impedance stabilization network (LISN). The LISN provides a 50 ohm /50uH coupling impedance for the measuring equipment.
- 4. The peripheral devices are also connected to the main power through a LISN. (Please refer to the block diagram of the test setup and photographs)
- 5. Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor, was individually connected through a LISN to the input power source.
- 6. The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length.
- 7. Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9 kHz.

TEST RESULTS

Report No: TRE1510017004 Page: 11 of 32 Issued: 2015-11-10

| Test mode:AC 120V | BT | Polarization | 1 |
|-----------------------|---------|---|-----|
| 7000 7770 40770 720 7 | 1 - 2 - | , , ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | (= |



MEASUREMENT RESULT: "GM11105003_fin"

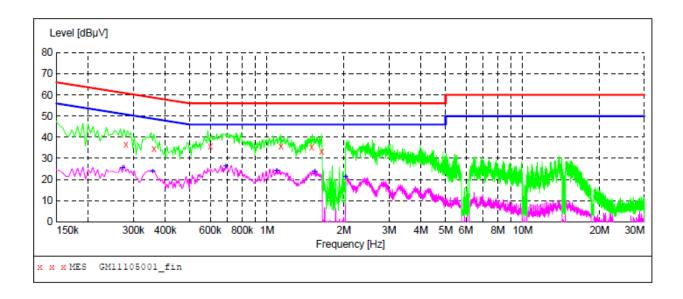
| 11/10/2015 | 10:10AM | | | | | | |
|------------------|---------|--------------|---------------|--------------|----------|------|-----|
| Frequency MH: | • | Transd dB | Limit dBµV | Margin dB | Detector | Line | PE |
| 0.339000 | 42.00 | 10.2 | 59 | 17.2 | QP | Ll | GND |
| 0.618000 | 43.40 | 10.2 | 56 | 12.6 | QP | Ll | GND |
| 1.077000 | 42.70 | 10.2 | 56 | 13.3 | QP | Ll | GND |
| 1.500000 | 41.30 | 10.2 | 56 | 14.7 | QP | Ll | GND |
| 2.373000 | 38.40 | 10.3 | 56 | 17.6 | QP | Ll | GND |
| 2.391000 | 39.00 | 10.3 | 56 | 17.0 | QP | Ll | GND |

MEASUREMENT RESULT: "GM11105003 fin2"

| 11/10/2015 | 10:10AM | | | | | | |
|------------------|---------|--------------|---------------|--------------|----------|------|-----|
| Frequency MHz | | Transd dB | Limit dBµV | Margin dB | Detector | Line | PE |
| 0.267000 | 35.30 | 10.2 | 51 | 15.9 | AV | Ll | GND |
| 0.339000 | 33.30 | 10.2 | 49 | 15.9 | AV | Ll | GND |
| 0.685500 | 35.90 | 10.2 | 46 | 10.1 | AV | Ll | GND |
| 1.045500 | 34.20 | 10.2 | 46 | 11.8 | AV | Ll | GND |
| 1.495500 | 32.60 | 10.2 | 46 | 13.4 | AV | Ll | GND |
| 2.386500 | 29.20 | 10.3 | 46 | 16.8 | AV | Ll | GND |

Report No: TRE1510017004 Page: 12 of 32 Issued: 2015-11-10

| Test mode: AC 120V | RT | Polarization | N |
|---------------------|-----|---------------|-----|
| 1001111000.710 1201 | ו ס | 1 Oldrization | , v |



MEASUREMENT RESULT: "GM11105001_fin"

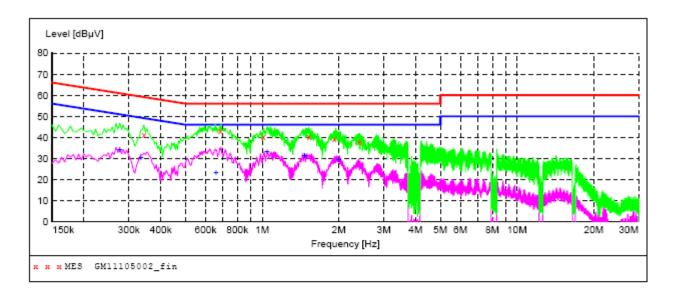
| 11/10/2015 | | | | | D-44 | - ! | - |
|------------------|-------|--------------|------|--------------|----------|------|-----|
| Frequency MH2 | | Transd dB | dBµV | Margin dB | Detector | Line | PE |
| 0.280500 | 36.60 | 10.2 | 61 | 24.2 | QP | N | GND |
| 0.361500 | 34.70 | 10.2 | 59 | 24.0 | QP | N | GND |
| 0.600000 | 35.60 | 10.2 | 56 | 20.4 | QP | N | GND |
| 1.135500 | 35.70 | 10.2 | 56 | 20.3 | QP | N | GND |
| 1.495500 | 35.20 | 10.2 | 56 | 20.8 | QP | N | GND |
| 1.635000 | 33.30 | 10.2 | 56 | 22.7 | QP | N | GND |

MEASUREMENT RESULT: "GM11105001_fin2"

| 11/10/2015 Frequency MHz | Level | Transd dB | Limit dBµV | Margin dB | Detector | Line | PE |
|--------------------------------|-------|--------------|---------------|--------------|----------|------|-----|
| 0.271500 | 25.30 | 10.2 | 51 | 25.8 | AV | N | GND |
| 0.357000 | 23.80 | 10.2 | 49 | 25.0 | AV | N | GND |
| 0.690000 | 26.40 | 10.2 | 46 | 19.6 | AV | N | GND |
| 1.090500 | 24.10 | 10.2 | 46 | 21.9 | AV | N | GND |
| 1.536000 | 23.70 | 10.2 | 46 | 22.3 | AV | N | GND |
| 2.026500 | 21.30 | 10.2 | 46 | 24.7 | AV | N | GND |

Report No: TRE1510017004 Page: 13 of 32 Issued: 2015-11-10

Test mode:AC 240V BT Polarization L



MEASUREMENT RESULT: "GM11105002_fin"

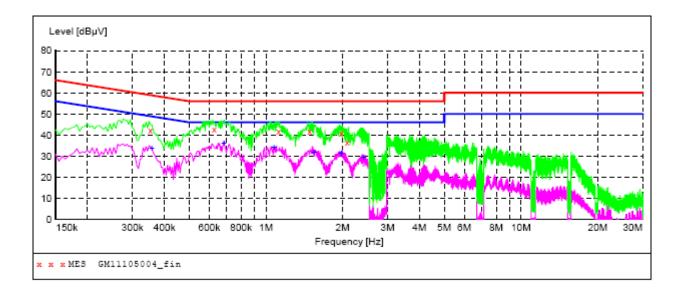
| 11/10/2015 : Frequency MHz | | Transd dB | Limit dBµV | Margin dB | Detector | Line | PE |
|----------------------------------|-------|--------------|---------------|--------------|----------|------|-----|
| 0.343500 | 41.40 | 10.2 | 59 | 17.7 | QP | L1 | GND |
| 0.685500 | 43.10 | 10.2 | 56 | 12.9 | QP | L1 | GND |
| 1.009500 | 40.50 | 10.2 | 56 | 15.5 | QP | L1 | GND |
| 1.527000 | 40.30 | 10.2 | 56 | 15.7 | QP | L1 | GND |
| 1.918500 | 39.40 | 10.2 | 56 | 16.6 | QP | L1 | GND |
| 2.413500 | 37.90 | 10.3 | 56 | 18.1 | QP | L1 | GND |

MEASUREMENT RESULT: "GM11105002_fin2"

| 11/10/201 Freque | | | ansd I | Limit M dBµV | argin dB | Detector | Line | PE |
|---------------------|-------|-------|--------|-----------------|-------------|----------|------|-----|
| 0.276 | 000 | 34.10 | 10.2 | 51 | 16.8 | AV | L1 | GND |
| 0.334 | 500 3 | 30.40 | 10.2 | 49 | 18.9 | AV | L1 | GND |
| 0.658 | 500 2 | 23.00 | 10.2 | 46 | 23.0 | AV | L1 | GND |
| 1.045 | 500 3 | 33.00 | 10.2 | 46 | 13.0 | AV | L1 | GND |
| 1.468 | 500 3 | 31.30 | 10.2 | 46 | 14.7 | AV | L1 | GND |
| 1.999 | 500 2 | 29.50 | 10.2 | 46 | 16.5 | AV | L1 | GND |

Report No: TRE1510017004 Page: 14 of 32 Issued: 2015-11-10

| Test mode: AC 240V BT Polarizati | on N |
|----------------------------------|------|
|----------------------------------|------|



MEASUREMENT RESULT: "GM11105004 fin"

| 11/10/2015 Frequency MHz | Level | Transd dB | Limit dBµV | Margin dB | Detector | Line | PE |
|--|-------------------------|------------------------------|----------------------|--------------------------------------|----------------|------------------|---------------------------------|
| 0.352500 0.627000 1.122000 1.482000 | 42.90 41.70 41.60 | 10.2 10.2 10.2 10.2 | 59 56 56 56 | 16.6 13.1 14.3 14.4 15.4 | QP QP QP | N N N N | GND GND GND GND GND |
| 2.080500 | | 10.2 | 56 | 19.6 | QP | N | GND |

MEASUREMENT RESULT: "GM11105004 fin2"

| 11/10/2015 Frequency MHz | Level | Transd dB | Limit dBµV | Margin dB | Detector | Line | PE |
|--------------------------------|-------|--------------|---------------|--------------|----------|------|-----|
| 0.357000 | 33.80 | 10.2 | 49 | 15.0 | AV | N | GND |
| 0.685500 | 36.10 | 10.2 | 46 | 9.9 | AV | N | GND |
| 1.077000 | 34.20 | 10.2 | 46 | 11.8 | AV | N | GND |
| 1.545000 | 32.00 | 10.2 | 46 | 14.0 | AV | N | GND |
| 1.977000 | 31.20 | 10.2 | 46 | 14.8 | AV | N | GND |
| 2.418000 | 29.20 | 10.3 | 46 | 16.8 | AV | N | GND |

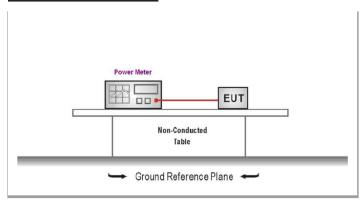
Report No: TRE1510017004 Page: 15 of 32 Issued: 2015-11-10

4.3. Conducted Peak Output Power

LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (b)(3): 30dBm

TEST CONFIGURATION



TEST PROCEDURE

- The EUT was tested according to KDB 558074 D01 V03R02 for compliance to FCC 47CFR 15.247 requirements.
- 2. The maximum peak conducted output power may be measured using a broadband peak RF power meter.
- 3. The power meter shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall utilize a fast-responding diode detector
- 4. Record the measurement data.

TEST RESULTS

| Т | уре | Channel | Output power (dBm) | Limit (dBm) | Result |
|----|-------|---------|--------------------|-------------|--------|
| | | 00 | -1.98 | | |
| ВТ | T-BLE | 19 | -1.99 | 30.00 | Pass |
| | | 39 | -2.33 | | |

Report No: TRE1510017004 Page: 16 of 32 Issued: 2015-11-10

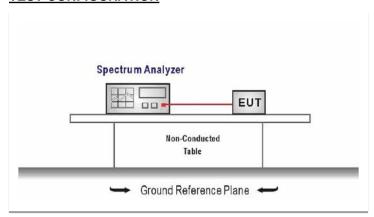
4.4. Power Spectral Density

LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (e): 8dBm/3KHz

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.

TEST CONFIGURATION



TEST PROCEDURE

- Connect the antenna port(s) to the spectrum analyzer input,
- 2. Configure the spectrum analyzer as shown below:

Center frequency=DTS channel center frequency

Span =1.5 times the DTS bandwidth

 $RBW = 3 \text{ kHz} \le RBW \le 100 \text{ kHz}, VBW \ge 3 \times RBW$

Sweep time = auto couple

Detector = peak

Trace mode = max hold

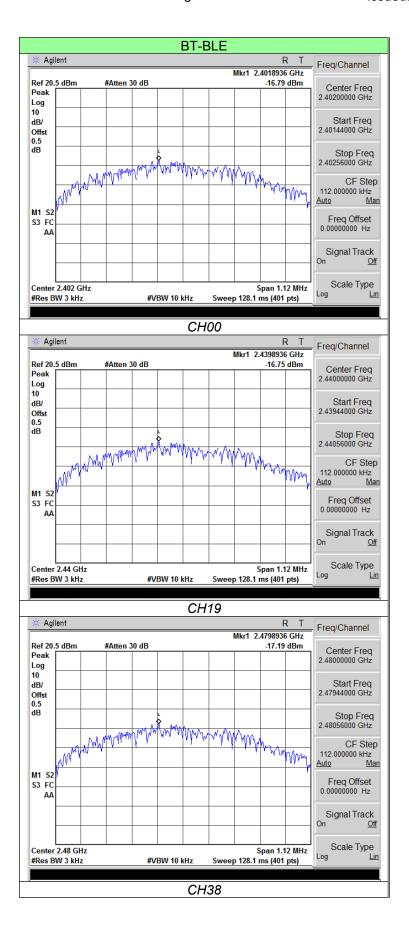
- 3. Place the radio in continuous transmit mode, allow the trace to stabilize, view the transmitter waveform on the spectrum analyzer.
- 4. Use the peak marker function to determine the maximum amplitude level within the RBW.
- 5. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

TEST RESULTS

| Туре | Channel | Power Spectral Density (dBm/3KHz) | Limit (dBm/3KHz) | Result | |
|--------|---------|--------------------------------------|------------------|--------|--|
| | 00 | -16.79 | | | |
| BT-BLE | 19 | -16.75 | 8.00 | Pass | |
| | 38 | -17.19 | | | |

Test plot as follows:

Report No: TRE1510017004 Page: 17 of 32 Issued: 2015-11-10



Report No: TRE1510017004 Page: 18 of 32 Issued: 2015-11-10

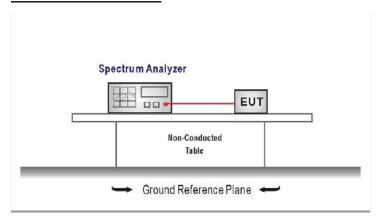
4.5. 6dB bandwidth

LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (a)(2): at least 500KHz

For digital modulation systems, the minimum 6 dB bandwidth shall be at least 500 kHz.

TEST CONFIGURATION



TEST PROCEDURE

- 1. Connect the antenna port(s) to the spectrum analyzer input.
- 2. Configure the spectrum analyzer as shown below (enter all losses between the transmitter output and the spectrum analyzer).

Center Frequency =DTS channel center frequency

Span=2 x DTS bandwidth

RBW = 100 kHz, VBW ≥ 3 × RBW

Sweep time= auto couple

Detector = Peak

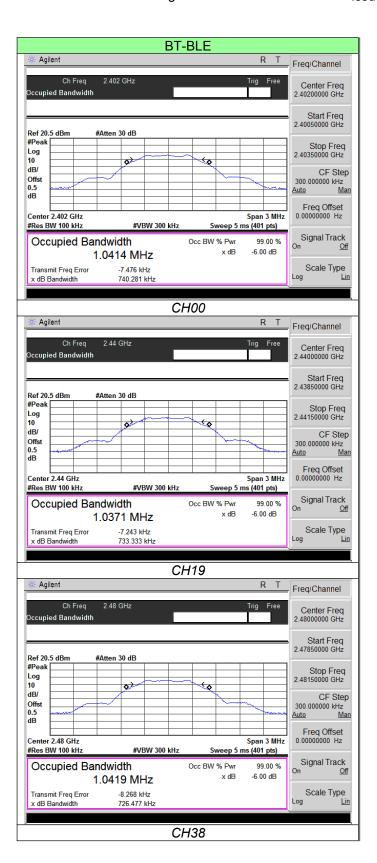
Trace mode = max hold

- 3. Place the radio in continuous transmit mode, allow the trace to stabilize, view the transmitter waveform on the spectrum analyzer.
- 4. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission, and record the pertinent measurements.

TEST RESULTS

| Туре | Channel | 6dB Bandwidth(3KHz) | Limit (KHz) | Result | |
|--------|---------|---------------------|-------------|--------|--|
| | 00 | 740.28 | | | |
| BT-BLE | 19 | 733.33 | ≥500 | Pass | |
| | 38 | 726.47 | | | |

Test plot as follows:



Report No: TRE1510017004 Page: 20 of 32 Issued: 2015-11-10

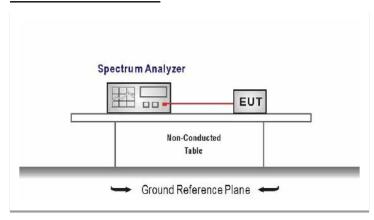
4.6. Restricted band (Conducted)

LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (d):

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

TEST CONFIGURATION



TEST PROCEDURE

According to KDB 558074 D01 V03R02 for Antenna-port conducted measurement.
 Antenna-port conducted measurements may also be used as an alternative to radiated measurements for demonstrating compliance in the restricted frequency bands.

- 1) Measure the conducted output power (in dBm) using the Peak /average detector
- 2) Add the maximum transmit antenna gain (in dBi) to the measured output power level to determine the EIRP level
- 3) Add the appropriate maximum ground reflection factor to the EIRP level 6 dB for frequencies ≤ 30 MHz
 - 4.7 dB for frequencies between 30 MHz and 1000 MHz
 - 0 dB for frequencies > 1000 MHz
- 4) For devices with multiple antenna-ports, measure the power of each individual chain and sum the EIRP of all chains in linear terms
- 5) Convert the resultant EIRP level to an equivalent electric field strength using the following relationship:

E = EIRP - 20log D + 104.8

where:

E = electric field strength in dBμV/m,

EIRP = equivalent isotropic radiated power in dBm

D = specified measurement distance in meters.

6) Compare the resultant electric field strength level to the applicable limit

2. Peak power measurement procedure

Peak emission levels are measured by setting the instrument as follows

RBW = 1MHz, $VBW \ge 3 \times RBW$

Detector = Peak, Sweep time = auto

Trace mode = max hold

Allow sweeps to continue until the trace stabilizes.

If the peak-detected amplitude can be shown to comply with the average limit, then it is not necessary to perform a separate average measurement

3. Average power measurement procedure

Duty cycle < 98 percent, but the duty cycle is not constant

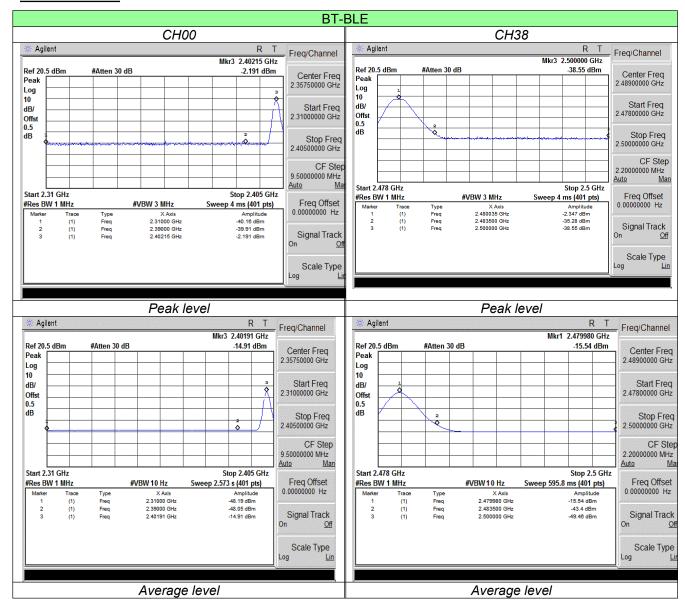
- a) RBW = 1 MHz, VBW ≥ 1/T.
- b) Video bandwidth mode or display mode
 - 1) The instrument shall be set to ensure that video filtering is applied in the power domain. Typically, this requires setting the detector mode to RMS and setting the Average-VBW Type to Power (RMS).
 - 2) As an alternative, the instrument may be set to linear detector mode. Ensure that video filtering is applied in linear voltage domain (rather than in a log or dB domain). Some

Report No: TRE1510017004 Page: 21 of 32 Issued: 2015-11-10

instruments require linear display mode in order to accomplish this. Others have a setting for Average-VBW Type, which can be set to "Voltage" regardless of the display mode.

- c) Detector = Peak, Sweep time = auto.
- d) Trace mode = max hold.
- e) Allow max hold to run for at least 50 times (1/duty cycle) traces.

TEST RESULTS



| Frequency (MHz) | Conducted Power (dBm) | Antenna Gain (dBi) | Ground Reflection Factor (dB) | Covert Radiated E Level at 3m (dBuV/m) | Limit (dBuV/m) | Result | Test Value |
|--------------------|-----------------------------|--------------------------|-------------------------------------|---|-------------------|--------|------------|
| 2310.00 | -40.16 | 0.00 | 0.00 | 55.10 | 74.00 | Pass | |
| 2390.00 | -39.91 | 0.00 | 0.00 | 55.35 | 74.00 | Pass | Peak |
| 2483.50 | -35.28 | 0.00 | 0.00 | 59.98 | 74.00 | Pass | reak |
| 2500.00 | -38.55 | 0.00 | 0.00 | 56.71 | 74.00 | Pass | |
| 2310.00 | -48.19 | 0.00 | 0.00 | 47.07 | 54.00 | Pass | |
| 2390.00 | -48.05 | 0.00 | 0.00 | 47.21 | 54.00 | Pass | Average |
| 2483.50 | -43.40 | 0.00 | 0.00 | 51.86 | 54.00 | Pass | Average |
| 2500.00 | -49.46 | 0.00 | 0.00 | 45.80 | 54.00 | Pass | |

Note:

EIRP=Conducted Power + Antenna Gain + Ground Reflection factor E = EIRP – 20log D + 104.8

Report No: TRE1510017004 Page: 22 of 32 Issued: 2015-11-10

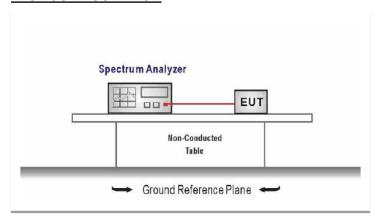
4.7. Band edge and Spurious Emission (conducted)

LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (d):

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum 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.

TEST CONFIGURATION



TEST PROCEDURE

- 1. Connect the antenna port(s) to the spectrum analyzer input.
- 2. Establish a reference level by using the following procedure

Center frequency=DTS channel center frequency

The span = 1.5 times the DTS bandwidth.

RBW = 100 kHz, VBW ≥ 3 x RBW

Detector = peak, Sweep time = auto couple, Trace mode = max hold

Allow trace to fully stabilize

Use the peak marker function to determine the maximum PSD level

Note that the channel found to contain the maximum PSD level can be used to establish the reference level.

3. Emission level measurement

Set the center frequency and span to encompass frequency range to be measured

RBW = 100 kHz, VBW \geq 3 x RBW

Detector = peak, Sweep time = auto couple, Trace mode = max hold

Allow trace to fully stabilize

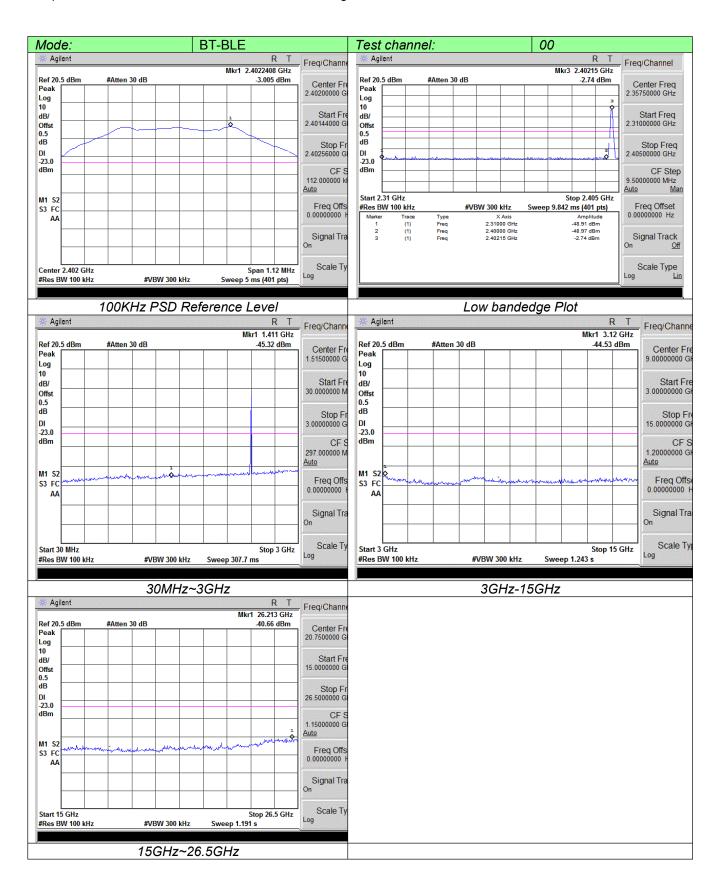
Use the peak marker function to determine the maximum amplitude level.

- 4. Place the radio in continuous transmit mode, allow the trace to stabilize, view the transmitter waveform on the spectrum analyzer.
- 5. Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band excluding restricted frequency bands) are attenuated by at least the minimum requirements specified (at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz). Report the three highest emissions relative to the limit.

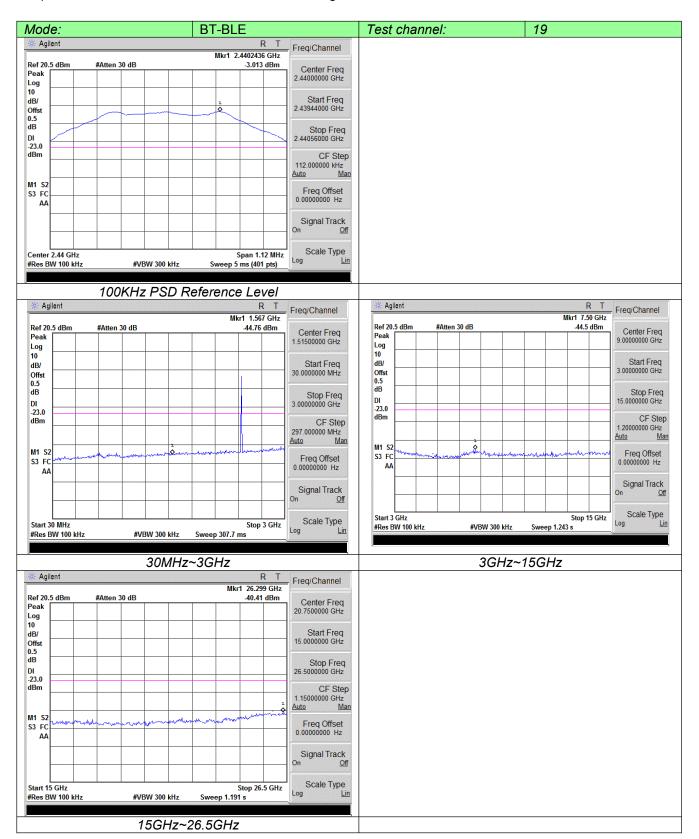
TEST RESULTS

Test plot as follows:

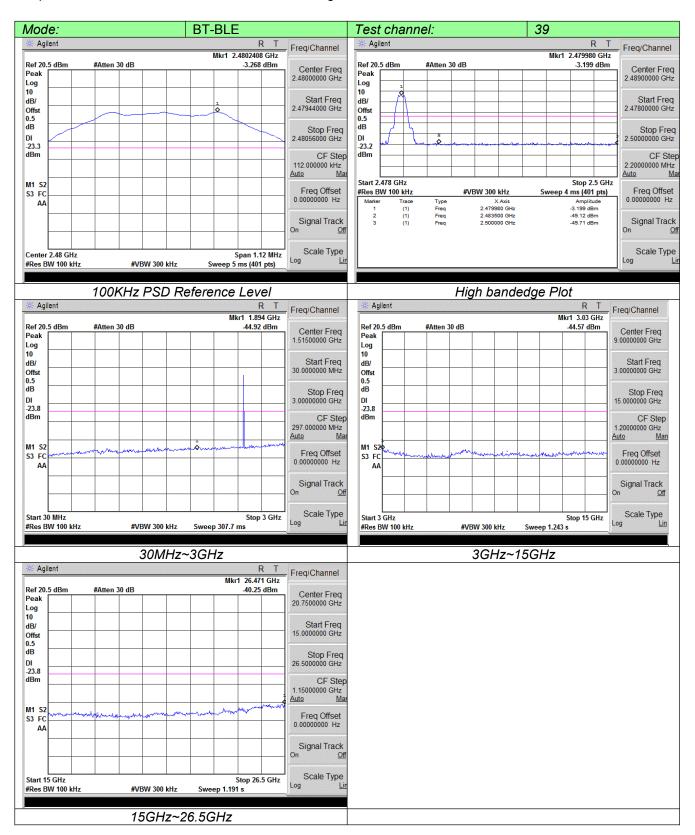
Report No: TRE1510017004 Page: 23 of 32 Issued: 2015-11-10



Report No: TRE1510017004 Page: 24 of 32 Issued: 2015-11-10



Report No: TRE1510017004 Page: 25 of 32 Issued: 2015-11-10



Report No: TRE1510017004 Page: 26 of 32 Issued: 2015-11-10

4.8. Spurious Emission (radiated)

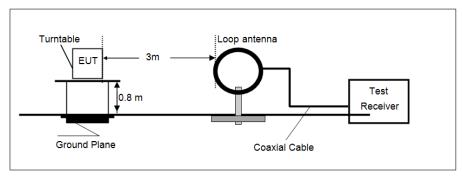
<u>LIMIT</u>

FCC CFR Title 47 Part 15 Subpart C Section 15.209

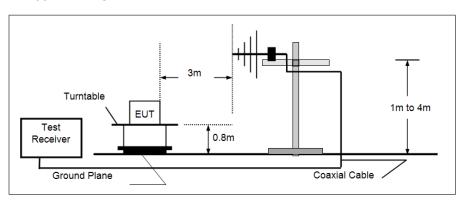
| Frequency | Limit (dBuV/m @3m) | Value |
|---------------|--------------------|------------|
| 30MHz-88MHz | 40.00 | Quasi-peak |
| 88MHz-216MHz | 43.50 | Quasi-peak |
| 216MHz-960MHz | 46.00 | Quasi-peak |
| 960MHz-1GHz | 54.00 | Quasi-peak |
| Above 1GHz | 54.00 | Average |
| Above IGHZ | 74.00 | Peak |

TEST CONFIGURATION

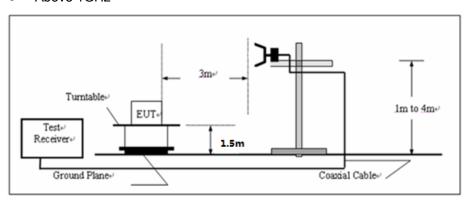
● 9KHz ~30MHz



• 30MHz ~ 1GHz



Above 1GHz



Report No: TRE1510017004 Page: 27 of 32 Issued: 2015-11-10

TEST PROCEDURE

- The EUT was setup and tested according to ANSI C63.10:2013 for compliance to FCC 47CFR 15.247 requirements.
- 2. The EUT is placed on a turn table which is 0.8 meter above ground. The turn table is rotated 360 degrees to determine the position of the maximum emission level.
- 3. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.
- 4. The antenna is scanned from 1 meter to 4 meters to find out the maximum emission level. This is repeated for both horizontal and vertical polarization of the antenna. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.10:2013 on radiated measurement.
- 5. Use the following spectrum analyzer settings
 - (1) Span shall wide enough to fully capture the emission being measured;
 - (2) Below 1GHz, RBW=120KHz, VBW=300KHz, Sweep=auto, Detector function=peak, Trace=max hold; If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.
 - (3) Above 1GHz, RBW=1MHz, VBW=3MHz for Peak value

RBW=1MHz, VBW=10Hz for Average value.

TEST RESULTS

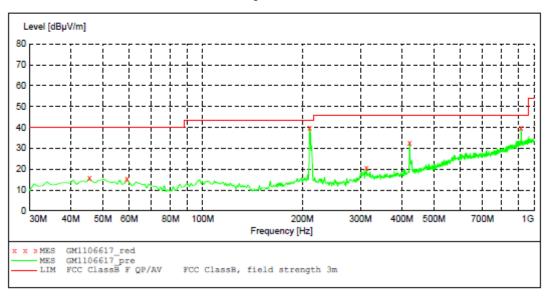
Measurement data:

■ 9kHz ~ 30MHz

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line per 15.31(o) was not reported.

■ 30MHz ~ 1GHz

```
SWEEP TABLE: "test (30M-1G)"
Short Description: Fi
                                     Field Strength
  Start
               Stop
                                       Meas.
                                                   ΙF
                                                               Transducer
                                                   Bandw.
  Frequency
               Frequency
                                       Time
  30.0 MHz
               1.2 GHz
                            MaxPeak
                                       Coupled
                                                   100 kHz
                                                               VULB9163 2014
```

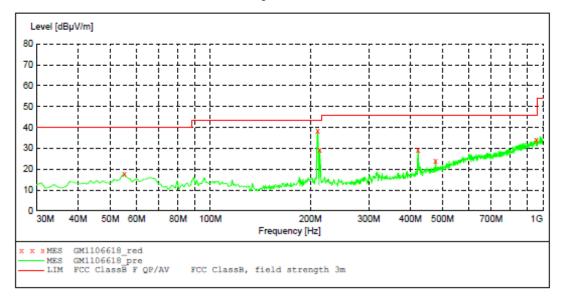


MEASUREMENT RESULT: "GM1106617 red"

| 11/6/2015 | 10:50 | MA(| | | | | | | |
|--------------|-------|----------------|-------|------|--------------|----|--------------|----------------|--------------|
| Frequen M | - | Level BµV/m | | | Margin dB | | Height cm | Azimuth deg | Polarization |
| 45.5200 | 00 | 15.60 | -14.7 | 40.0 | 24.4 | QP | 300.0 | 173.00 | HORIZONTAL |
| 59.1000 | 00 | 15.40 | -14.8 | 40.0 | 24.6 | QP | 300.0 | 360.00 | HORIZONTAL |
| 210.4200 | 00 | 39.70 | -14.0 | 43.5 | 3.8 | QP | 100.0 | 108.00 | HORIZONTAL |
| 312.2700 | 00 | 20.60 | -13.3 | 46.0 | 25.4 | QP | 100.0 | 287.00 | HORIZONTAL |
| 421.8800 | 00 | 32.70 | -10.0 | 46.0 | 13.3 | QP | 100.0 | 228.00 | HORIZONTAL |
| 914.6400 | 00 | 39.70 | 3.0 | 46.0 | 6.3 | QP | 300.0 | 13.00 | HORIZONTAL |

Report No: TRE1510017004 Page: 28 of 32 Issued: 2015-11-10

SWEEP TABLE: "test (30M-1G)"
Short Description: Field Strength
Start Stop Detector Meas. IF Detector Meas. IF Transducer
Time Bandw. Frequency Frequency 30.0 MHz 1.2 GHz MaxPeak Coupled 100 kHz VULB9163 2014



MEASUREMENT RESULT: "GM1106618 red"

| 11/6/2015 10: | 54AM | | | | | | | |
|---------------|--------|-------|--------|--------|------|--------|---------|--------------|
| Frequency | Level | | | Margin | Det. | Height | Azimuth | Polarization |
| MHz | dBμV/m | dB | dBμV/m | dB | | cm | deg | |
| 55.220000 | 17 70 | -14 6 | 40.0 | 22.2 | OD | 100.0 | 297 00 | VERTICAL |
| | | | | | _ | | | |
| 210.420000 | 38.60 | -14.0 | 43.5 | 4.9 | QP | 100.0 | 175.00 | VERTICAL |
| 213.330000 | 29.30 | -14.1 | 43.5 | 14.2 | QP | 100.0 | 277.00 | VERTICAL |
| 421.880000 | 29.10 | -10.0 | 46.0 | 16.9 | QP | 100.0 | 277.00 | VERTICAL |
| 476.200000 | 24.00 | -8.1 | 46.0 | 22.0 | QP | 100.0 | 297.00 | VERTICAL |
| 956.350000 | 34.10 | 3.8 | 46.0 | 11.9 | QP | 100.0 | 196.00 | VERTICAL |

Report No: TRE1510017004 Page: 29 of 32 Issued: 2015-11-10

■ Above 1GHz

| CH00 for BT-BLE | | | | | | | | | | |
|--------------------|-------------------------|-----------------------------|-----------------------|--------------------------|-------------------|------------------------|-------------------------|--------------|---------------|--|
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Margin Limit (dB) | Polarization | Test value | |
| 4804 | 37.6 | 31.28 | 5.66 | 35.29 | 39.25 | 74 | -34.75 | Vertical | | |
| 7206 | 35.71 | 36.22 | 6.87 | 35.15 | 43.65 | 74 | -30.35 | Vertical | | |
| 9608 | 35.75 | 37.85 | 8.8 | 35.55 | 46.85 | 74 | -27.15 | Vertical | | |
| 12010 | * | | | | | | | Vertical | Dools | |
| 4804 | 38.6 | 31.28 | 5.66 | 35.29 | 40.25 | 74 | -33.75 | Horizontal | Peak | |
| 7206 | 35.8 | 36.22 | 6.87 | 35.15 | 43.74 | 74 | -30.26 | Horizontal | | |
| 9608 | 36.75 | 37.85 | 8.8 | 35.55 | 47.85 | 74 | -26.15 | Horizontal | | |
| 12010 | * | | | | | | | Horizontal | | |
| 4804 | 33.11 | 31.28 | 5.66 | 35.29 | 34.76 | 54 | -19.24 | Vertical | | |
| 7206 | 28.64 | 36.22 | 6.87 | 35.15 | 36.58 | 54 | -17.42 | Vertical | | |
| 9608 | 27.55 | 37.85 | 8.8 | 35.55 | 38.65 | 54 | -15.35 | Vertical | | |
| 12010 | * | | | | | | | Vertical | A | |
| 4804 | 33.2 | 31.28 | 5.66 | 35.29 | 34.85 | 54 | -19.15 | Horizontal | Average | |
| 7206 | 28.91 | 36.22 | 6.87 | 35.15 | 36.85 | 54 | -17.15 | Horizontal | | |
| 9608 | 27.64 | 37.85 | 8.8 | 35.55 | 38.74 | 54 | -15.26 | Horizontal | | |
| 12010 | * | | | | | | | Horizontal | | |

| CH19 for BT-BLE | | | | | | | | | |
|--------------------|-------------------------|-----------------------------|-----------------------|--------------------------|-------------------|------------------------|-------------------------|--------------|---------------|
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Margin Limit (dB) | Polarization | Test value |
| 4882 | 38.21 | 31.26 | 5.65 | 35.27 | 39.85 | 74 | -34.15 | Vertical | |
| 7323 | 35.32 | 36.2 | 6.86 | 35.13 | 43.25 | 74 | -30.75 | Vertical | |
| 9764 | 36.77 | 37.83 | 8.79 | 35.53 | 47.86 | 74 | -26.14 | Vertical | |
| 12205 | * | | | | | | | Vertical | Peak |
| 4882 | 38.61 | 31.26 | 5.65 | 35.27 | 40.25 | 74 | -33.75 | Horizontal | Peak |
| 7323 | 35.54 | 36.2 | 6.86 | 35.13 | 43.47 | 74 | -30.53 | Horizontal | |
| 9764 | 36.43 | 37.83 | 8.79 | 35.53 | 47.52 | 74 | -26.48 | Horizontal | |
| 12205 | * | | | | | | | Horizontal | |
| 4882 | 32.74 | 31.26 | 5.65 | 35.27 | 34.38 | 54 | -19.62 | Vertical | |
| 7323 | 28.31 | 36.2 | 6.86 | 35.13 | 36.24 | 54 | -17.76 | Vertical | |
| 9764 | 27.43 | 37.83 | 8.79 | 35.53 | 38.52 | 54 | -15.48 | Vertical | |
| 12205 | * | | | | | | | Vertical | Average |
| 4882 | 33.21 | 31.26 | 5.65 | 35.27 | 34.85 | 54 | -19.15 | Horizontal | Average |
| 7323 | 28.85 | 36.2 | 6.86 | 35.13 | 36.78 | 54 | -17.22 | Horizontal | |
| 9764 | 27.85 | 37.83 | 8.79 | 35.53 | 38.94 | 54 | -15.06 | Horizontal | |
| 12205 | * | | | | | | | Horizontal | |

Remark:

- 1. Final Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2. "*", means this data is the too weak instrument of signal is unable to test.
- 3. The emission levels of other frequencies are very lower than the limit and not show in test report.

Report No: TRE1510017004 Page: 30 of 32 Issued: 2015-11-10

| CH39 for BT-BLE | | | | | | | | | | |
|--------------------|-------------------------|-----------------------------|-----------------------|--------------------------|-------------------|------------------------|-------------------------|--------------|---------------|--|
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Margin Limit (dB) | Polarization | Test value | |
| 4960 | 37.9 | 31.44 | 5.87 | 35.46 | 39.75 | 74 | -34.25 | Vertical | | |
| 7440 | 35.51 | 36.38 | 7.08 | 35.32 | 43.65 | 74 | -30.35 | Vertical | | |
| 9920 | 36.18 | 38.01 | 9.01 | 35.72 | 47.48 | 74 | -26.52 | Vertical | | |
| 12400 | * | | | | | | | Vertical | Dools | |
| 4960 | 38.4 | 31.44 | 5.87 | 35.46 | 40.25 | 74 | -33.75 | Horizontal | Peak | |
| 7440 | 35.72 | 36.38 | 7.08 | 35.32 | 43.86 | 74 | -30.14 | Horizontal | | |
| 9920 | 36.54 | 38.01 | 9.01 | 35.72 | 47.84 | 74 | -26.16 | Horizontal | | |
| 12400 | * | | | | | | | Horizontal | | |
| 4960 | 32.85 | 31.42 | 5.87 | 35.46 | 34.68 | 54 | -19.32 | Vertical | | |
| 7440 | 28.73 | 36.36 | 7.08 | 35.32 | 36.85 | 54 | -17.15 | Vertical | | |
| 9920 | 27.41 | 37.99 | 9.01 | 35.72 | 38.69 | 54 | -15.31 | Vertical | | |
| 12400 | * | | | | | | | Vertical | Avaraga | |
| 4960 | 33.05 | 31.42 | 5.87 | 35.46 | 34.88 | 54 | -19.12 | Horizontal | Average | |
| 7440 | 28.42 | 36.36 | 7.08 | 35.32 | 36.54 | 54 | -17.46 | Horizontal | | |
| 9920 | 27.5 | 37.99 | 9.01 | 35.72 | 38.78 | 54 | -15.22 | Horizontal | | |
| 12400 | * | | | | | | | Horizontal | | |

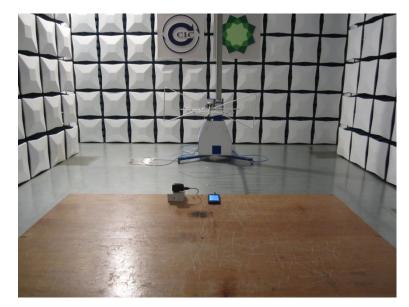
Remark:

- 1. Final Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2. "*", means this data is the too weak instrument of signal is unable to test.
- 3. The emission levels of other frequencies are very lower than the limit and not show in test report.

Report No: TRE1510017004 Page: 31 of 32 Issued: 2015-11-10

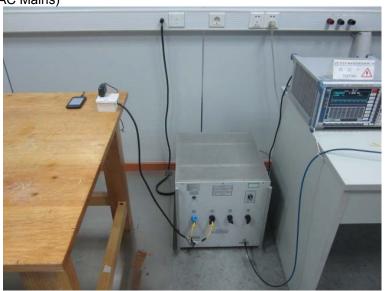
5. Test Setup Photos of the EUT

Radiated Emission





Conducted Emission (AC Mains)



Report No: TRE1510017004 Page: 32 of 32 Issued: 2015-11-10

6. External and Internal Photos of the EUT

Reference to Test Report TRE1510017001

.....End of Report......