



# TEST REPORT

**Report Reference No.**..... : **TRE1609005905** R/C.....: 94669  
**FCC ID**..... : **2AJZPF07**  
**Applicant's name**..... : **Mason America, Inc.**  
**Address**..... : 300 Park Street , Suite 380,Birmingham, Michigan 48009, United States  
**Manufacturer**..... : Foner Technology Co.,Ltd  
**Address**..... : 4/5F,Fuxing Buliding,No.6 Binglang Road Futian Free Trade Zone,Shenzhen,PR.China  
**Test item description** ..... : **F07 By Mason**  
**Trade Mark** ..... : Mason  
**Model/Type reference**..... : Mason F07  
**Listed Model(s)**..... : -  
**Standard** ..... : **FCC CFR Title 47 Part 15 Subpart C Section 15.247**  
**Date of receipt of test sample**..... : Sept.13 ,2016  
**Date of testing**..... : Sept.14 ,2016 ~ Oct.10, 2016  
**Date of issue**..... : Oct.10, 2016  
**Result**..... : **PASS**

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**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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## 1. APPLICABLE STANDARDS AND TEST DESCRIPTION

### 1.1. Applicable Standards

The tests were performed according to following standards:

[FCC Rules Part 15.247](#): 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

[KDB558074 D01 V03R03](#): Guidance for Performing Compliance Measurements on Digital Transmission Systems (DTS)

### 1.2. Test Description

| ReportSection | 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.

## 2. SUMMARY

### 2.1. Client Information

|               |                                                                                  |
|---------------|----------------------------------------------------------------------------------|
| Applicant:    | Mason America, Inc.                                                              |
| Address:      | 300 Park Street , Suite 380,Birmingham, Michigan 48009, United States            |
| Manufacturer: | Fonerix Technology Co.,Ltd                                                       |
| Address:      | 4/5F,Fuxing Buliding,No.6 Binglang Road Futian Free Trade Zone,Shenzhen,PR.China |

### 2.2. Product Description

|                      |                                                                                  |
|----------------------|----------------------------------------------------------------------------------|
| Name of EUT          | F07 By Mason                                                                     |
| Trade Mark:          | Mason                                                                            |
| Model No.:           | Mason F07                                                                        |
| Listed Model(s):     | -                                                                                |
| IMEI:                | 865006020015344                                                                  |
| Power supply:        | DC 3.8V From internal battery                                                    |
| Adapter information: | Model: HJ-0501500-EU<br>Input:AC 100-240V 50/60Hz 0.2A<br>Output: 5Vd.c., 1500mA |
| <b>Bluetooth</b>     |                                                                                  |
| Version:             | Supported BT4.0+BLE                                                              |
| Modulation:          | GFSK                                                                             |
| Operation frequency: | 2402MHz~2480MHz                                                                  |
| Channel number:      | 40                                                                               |
| Channel separation:  | 2MHz                                                                             |
| Antenna type:        | Internal Antenna                                                                 |
| Antenna gain:        | 3.76dBi                                                                          |

### 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            |
| :       | :               |
| 19      | 2440            |
| :       | :               |
| 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 Bluetooth under large package sizes transmission.

### 2.4. EUT configuration

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

● - supplied by the manufacturer

○ - supplied by the lab

|  |                |   |
|--|----------------|---|
|  | Length (m) :   | / |
|  | Shield :       | / |
|  | Detachable :   | / |
|  | Manufacturer : | / |
|  | Model No. :    | / |

### 2.5. Modifications

No modifications were implemented to meet testing criteria.

### **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 technical 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 FCC 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 Australian 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. has 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 DNV towards subcontractor of EMC and safety testing services in conjunction with the EMC and Low voltage Directives 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 DNV Laboratory Quality Manual towards subcontractors. Valid time is until Aug. 24, 2016.

### 3.3. Equipments Used during the Test

| 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        |

| 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                 | HORNANTENNA             | 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                | HORNANTENNA             | 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 |

| Maximum Peak Output Power / Power Spectral Density / 6dB Bandwidth / Band Edge Compliance of RF 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       | ML2480B   | 100798       | 2015/11/02 |
| 3                                                                                                                                         | Power Sensor      | Anritsu       | MA2411B   | 100258       | 2015/11/02 |

The Cal.Interval was one year

### 3.4. Environmental conditions

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

|                    |             |
|--------------------|-------------|
| Temperature:       | 15~35°C     |
| Relative 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 according 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 compatibility and 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 according 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 Emission 1~18GHz               | 5.16 dB                 | (1)   |
| Radiated Emission 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  $k=1.96$ .

## 4. TEST CONDITIONS AND RESULTS

### 4.1. Antenna requirement

#### Requirement

##### **FCC CFR Title 47 Part 15 Subpart C Section 15.203:**

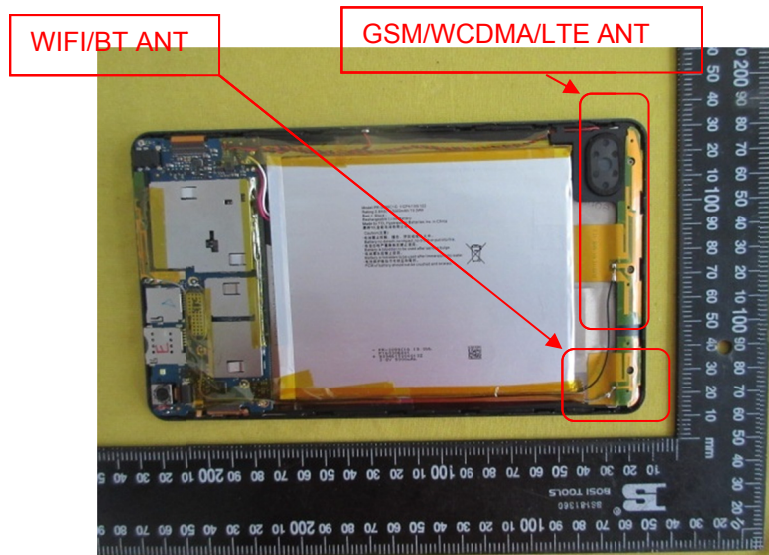
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit 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 3.76dBi



## 4.2. Conducted Emission (AC Main)

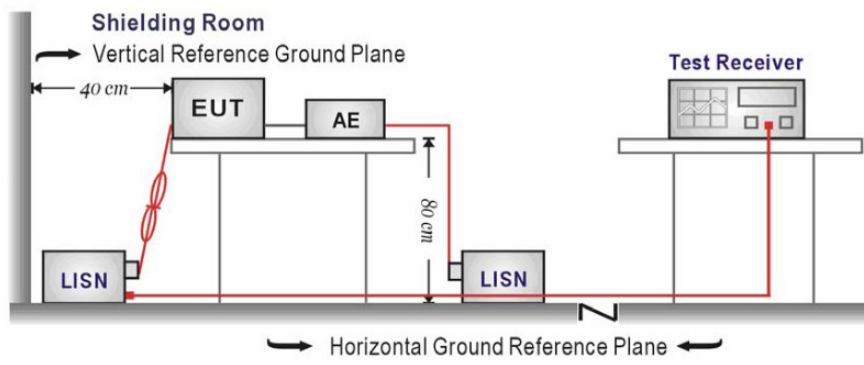
### LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.207

| Frequency range (MHz) | Limit (dBuV) |           |
|-----------------------|--------------|-----------|
|                       | 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.
2. 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.

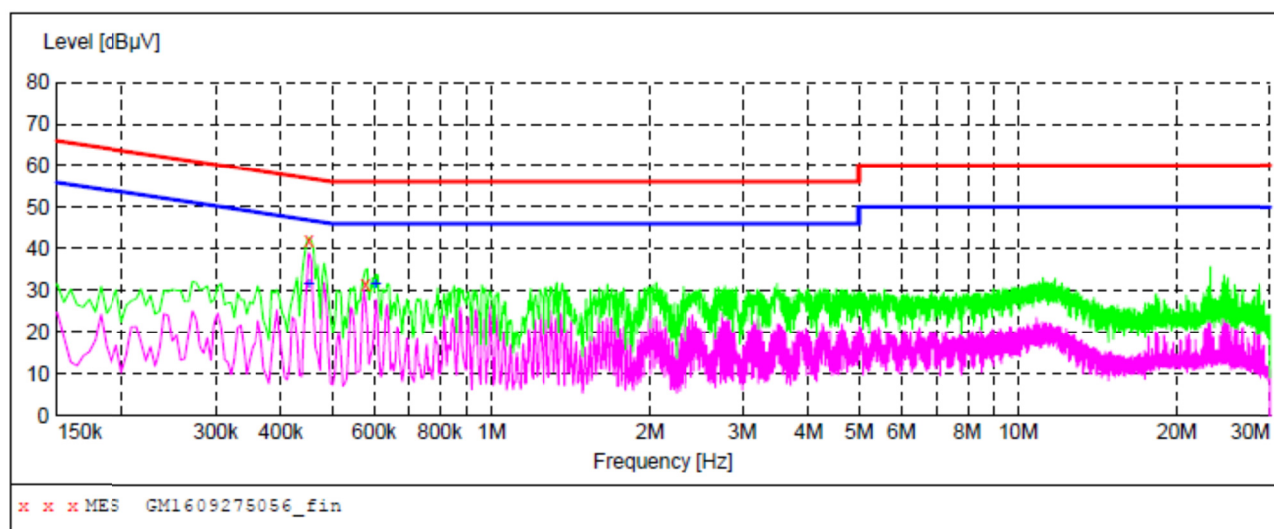
### TEST RESULTS

Test mode:AC 120V

BT

Polarization

L

**MEASUREMENT RESULT: "GM1609275056\_fin"**

9/27/2016 6:37PM

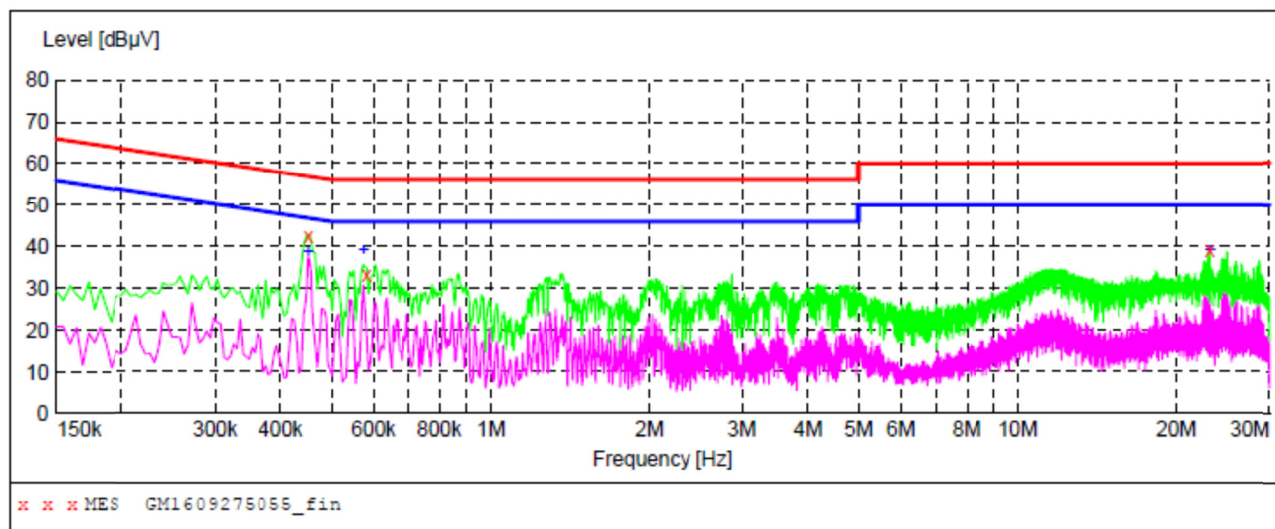
| Frequency<br>MHz | Level<br>dBμV | Transd<br>dB | Limit<br>dBμV | Margin<br>dB | Detector | Line | PE  |
|------------------|---------------|--------------|---------------|--------------|----------|------|-----|
| 0.451500         | 42.10         | 10.2         | 57            | 14.7         | QP       | L1   | GND |
| 0.577500         | 31.70         | 10.2         | 56            | 24.3         | QP       | L1   | GND |

**MEASUREMENT RESULT: "GM1609275056\_fin2"**

9/27/2016 6:37PM

| Frequency<br>MHz | Level<br>dBμV | Transd<br>dB | Limit<br>dBμV | Margin<br>dB | Detector | Line | PE  |
|------------------|---------------|--------------|---------------|--------------|----------|------|-----|
| 0.451500         | 31.60         | 10.2         | 47            | 15.2         | AV       | L1   | GND |
| 0.604500         | 31.50         | 10.2         | 46            | 14.5         | AV       | L1   | GND |

|                    |    |              |   |
|--------------------|----|--------------|---|
| Test mode: AC 120V | BT | Polarization | N |
|--------------------|----|--------------|---|



### MEASUREMENT RESULT: "GM1609275055\_fin"

9/27/2016 6:35PM

| Frequency<br>MHz | Level<br>dBμV | Transd<br>dB | Limit<br>dBμV | Margin<br>dB | Detector | Line | PE  |
|------------------|---------------|--------------|---------------|--------------|----------|------|-----|
| 0.451500         | 42.40         | 10.2         | 57            | 14.4         | QP       | N    | GND |
| 0.582000         | 33.10         | 10.2         | 56            | 22.9         | QP       | N    | GND |
| 23.127000        | 38.90         | 10.8         | 60            | 21.1         | QP       | N    | GND |

### MEASUREMENT RESULT: "GM1609275055\_fin2"

9/27/2016 6:35PM

| Frequency<br>MHz | Level<br>dBμV | Transd<br>dB | Limit<br>dBμV | Margin<br>dB | Detector | Line | PE  |
|------------------|---------------|--------------|---------------|--------------|----------|------|-----|
| 0.451500         | 38.80         | 10.2         | 47            | 8.0          | AV       | N    | GND |
| 0.573000         | 39.00         | 10.2         | 46            | 7.0          | AV       | N    | GND |
| 23.127000        | 38.90         | 10.8         | 50            | 11.1         | AV       | N    | GND |

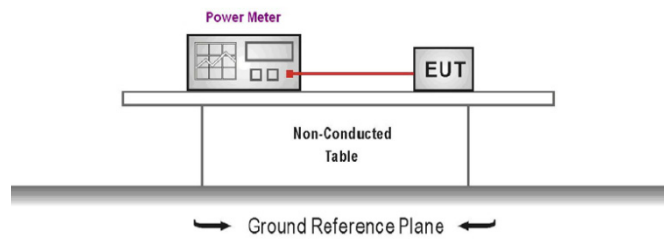
Remark: Transd=Cable lose+ PULSE LIMITER factor+ ARTIFICIAL MAINS factor; Margin= Limit -Level

### 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

1. The EUT was tested according to KDB 558074 D01 V03R03 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

| Type   | Channel | Output power (dBm) | Limit (dBm) | Result |
|--------|---------|--------------------|-------------|--------|
| BT-BLE | 00      | -5.78              | 30.00       | Pass   |
|        | 19      | -5.89              |             |        |
|        | 39      | -6.30              |             |        |

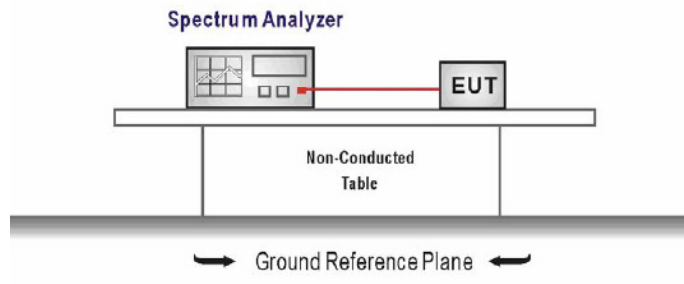
#### 4.4. Power Spectral Density

##### 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

1. 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 kHz ≤ 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. 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

| Type   | Channel | Power Spectral Density(dBm/3KHz) | Limit (dBm/3KHz) | Result |
|--------|---------|----------------------------------|------------------|--------|
| BT-BLE | 00      | -21.40                           | 8.00             | Pass   |
|        | 19      | -21.58                           |                  |        |
|        | 39      | -21.89                           |                  |        |

Test plot as follows:

