



**Shenzhen Asia Test Technology Co., Ltd.**

Report No. ATT2017SZ701127F  
- Page 1 of 48 -

# **FCC RADIO TEST REPORT**

## **FCC ID: 2AM74DI02**

**Product :** Smart watch

**Trade Name :** N/A

**Model Name :** DI02

**Serial Model :** DI03, N1, N3, N6, N8, N9, N16, N18, Q3, Q8

### **Prepared for**

Shenzhen newwear technology Co.,LTD  
1203, jinghua building, longhua distric, Shenzhen

### **Prepared by**

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# Shenzhen Asia Test Technology Co., Ltd.

Report No. ATT2017SZ701127F  
- Page 2 of 48 -

## TEST RESULT CERTIFICATION

**Applicant's name**..... Shenzhen newwear technology Co.,LTD  
**Address**..... 1203, jinghua building, longhua distric, Shenzhen  
**Manufacture's Name**..... Shenzhen newwear technology Co.,LTD  
**Address**..... 1203, jinghua building, longhua distric, Shenzhen

### Product description

**Product name**..... Smart watch  
**Model and/or type**..... DI02  
**reference** .....  
**Serial Model**..... DI03, N1, N3, N6, N8, N9, N16, N18, Q3, Q8

**Standards**..... FCC Part15.247

**Test procedure**..... ANSI C63.10-2013

This device described above has been tested by ATT, 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.

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**Date of Test**.....

**Date (s) of performance of tests**..... Jul. 01, 2017 ~ Jul. 11, 2017

**Date of Issue**..... Jul.12, 2017

**Test Result**..... **Pass**

Testing Engineer :

(Jack Yu)

Technical Manager :

(Can Liu)



# Shenzhen Asia Test Technology Co., Ltd.

Report No. ATT2017SZ701127F  
- Page 3 of 48 -

| Table of Contents                                           | Page      |
|-------------------------------------------------------------|-----------|
| <b>1 . SUMMARY OF TEST RESULTS</b>                          | <b>5</b>  |
| 1.1 TEST FACILITY                                           | 6         |
| 1.2 MEASUREMENT UNCERTAINTY                                 | 6         |
| <b>2 . GENERAL INFORMATION</b>                              | <b>7</b>  |
| 2.1 GENERAL DESCRIPTION OF EUT                              | 7         |
| 2.2 DESCRIPTION OF TEST MODES                               | 8         |
| 2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED | 9         |
| 2.4 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)            | 10        |
| 2.5 EQUIPMENTS LIST FOR ALL TEST ITEMS                      | 11        |
| <b>3 . EMC EMISSION TEST</b>                                | <b>13</b> |
| 3.1 CONDUCTED EMISSION MEASUREMENT                          | 13        |
| 3.1.1 POWER LINE CONDUCTED EMISSION LIMITS                  | 13        |
| 3.1.2 TEST PROCEDURE                                        | 14        |
| 3.1.3 DEVIATION FROM TEST STANDARD                          | 14        |
| 3.1.4 TEST SETUP                                            | 14        |
| 3.1.5 EUT OPERATING CONDITIONS                              | 14        |
| 3.1.6 TEST RESULTS                                          | 15        |
| 3.2 RADIATED EMISSION MEASUREMENT                           | 17        |
| 3.2.1 RADIATED EMISSION LIMITS                              | 17        |
| 3.2.2 TEST PROCEDURE                                        | 18        |
| 3.2.3 DEVIATION FROM TEST STANDARD                          | 18        |
| 3.2.4 TEST SETUP                                            | 19        |
| 3.2.5 EUT OPERATING CONDITIONS                              | 20        |
| 3.2.6 TEST RESULTS (BETWEEN 9KHZ – 30 MHZ)                  | 21        |
| 3.2.7 TEST RESULTS (BETWEEN 30MHZ – 1GHZ)                   | 22        |
| 3.2.8 TEST RESULTS (1GHZ~ 10TH HARMONIC)                    | 24        |
| <b>4 . POWER SPECTRAL DENSITY TEST</b>                      | <b>28</b> |
| 4.1 APPLIED PROCEDURES / LIMIT                              | 28        |
| 4.1.1 TEST PROCEDURE                                        | 28        |
| 4.1.2 DEVIATION FROM STANDARD                               | 28        |
| 4.1.3 TEST SETUP                                            | 28        |
| 4.1.4 EUT OPERATION CONDITIONS                              | 28        |
| 4.1.5 TEST RESULTS                                          | 29        |



# Shenzhen Asia Test Technology Co., Ltd.

Report No. ATT2017SZ701127F  
- Page 4 of 48 -

## Table of Contents

## Page

|                                                           |           |
|-----------------------------------------------------------|-----------|
| <b>5 . BANDWIDTH TEST</b>                                 | <b>31</b> |
| 5.1 APPLIED PROCEDURES / LIMIT                            | 31        |
| 5.1.1 TEST PROCEDURE                                      | 31        |
| 5.1.2 EUT OPERATION CONDITIONS                            | 31        |
| 5.1.3 TEST RESULTS                                        | 32        |
| <b>6 . PEAK OUTPUT POWER TEST</b>                         | <b>34</b> |
| 6.1 APPLIED PROCEDURES / LIMIT                            | 34        |
| 6.1.1 TEST PROCEDURE                                      | 34        |
| 6.1.2 DEVIATION FROM STANDARD                             | 34        |
| 6.1.3 TEST SETUP                                          | 34        |
| 6.1.4 EUT OPERATION CONDITIONS                            | 34        |
| 6.1.5 TEST RESULTS                                        | 35        |
| <b>7 . 100 KHZ BANDWIDTH OF FREQUENCY BAND EDGE</b>       | <b>36</b> |
| 7.1 DEVIATION FROM STANDARD                               | 36        |
| 7.2 TEST SETUP                                            | 37        |
| 7.3 EUT OPERATION CONDITIONS                              | 37        |
| 7.4 TEST RESULTS                                          | 38        |
| <b>8 . ANTENNA REQUIREMENT</b>                            | <b>40</b> |
| 8.1 STANDARD REQUIREMENT                                  | 40        |
| 8.2 EUT ANTENNA                                           | 40        |
| <b>9 . EUT TEST PHOTO</b>                                 | <b>41</b> |
| <b>APPENDIX-PHOTOGRAPHS OF EUT CONSTRUCTIONAL DETAILS</b> |           |



# Shenzhen Asia Test Technology Co., Ltd.

Report No. ATT2017SZ701127F  
- Page 5 of 48 -

## . SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

| FCC Part15 (15.247) , Subpart C |                            |          |        |
|---------------------------------|----------------------------|----------|--------|
| Standard Section                | Test Item                  | Judgment | Remark |
| 15.207                          | Conducted Emission         | PASS     |        |
| 15.247 (a)(2)                   | 6dB Bandwidth              | PASS     |        |
| 15.247 (b)                      | Peak Output Power          | PASS     |        |
| 15.247 (c)                      | Radiated Spurious Emission | PASS     |        |
| 15.247 (d)                      | Power Spectral Density     | PASS     |        |
| 15.205                          | Band Edge Emission         | PASS     |        |
| 15.203                          | Antenna Requirement        | PASS     |        |

### NOTE:

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



# Shenzhen Asia Test Technology Co., Ltd.

Report No. ATT2017SZ701127F  
- Page 6 of 48 -

## TEST FACILITY

Shenzhen Asia Test Technology Co.,Ltd.  
7 / F, Xinwei Building, Gushu Village, Xixiang Town, Baoan District, Shenzhen, China  
FCC Registration No.: 348715; IC Registration No.: 12198A

## MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement  $y \pm U$ , where expanded uncertainty  $U$  is based on a standard uncertainty multiplied by a coverage factor of  $k=2$ , providing a level of confidence of approximately **95 %** .

| No. | Item                         | Uncertainty               |
|-----|------------------------------|---------------------------|
| 1   | Conducted Emission Test      | $\pm 1.38\text{dB}$       |
| 2   | RF power,conducted           | $\pm 0.16\text{dB}$       |
| 3   | Spurious emissions,conducted | $\pm 0.21\text{dB}$       |
| 4   | All emissions,radiated(<1G)  | $\pm 4.68\text{dB}$       |
| 5   | All emissions,radiated(>1G)  | $\pm 4.89\text{dB}$       |
| 6   | Temperature                  | $\pm 0.5^{\circ}\text{C}$ |
| 7   | Humidity                     | $\pm 2\%$                 |



# Shenzhen Asia Test Technology Co., Ltd.

Report No. ATT2017SZ701127F  
- Page 7 of 48 -

## GENERAL INFORMATION

### GENERAL DESCRIPTION OF EUT

|                     |                                                                                                                                           |                    |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
| Equipment           | Smart watch                                                                                                                               |                    |
| Model Name          | DI02                                                                                                                                      |                    |
| Serial Model        | DI03, N1, N3, N6, N8, N9, N16, N18, Q3, Q8                                                                                                |                    |
| Model Difference    | All models are identical except model name and colors.                                                                                    |                    |
| Product Description | The EUT is a Smart watch                                                                                                                  |                    |
|                     | Operation Frequency:                                                                                                                      | 2402~2480MHz       |
|                     | Modulation Type:                                                                                                                          | GFSK               |
|                     | Bluetooth version:                                                                                                                        | 4.0 BLE            |
|                     | Bit Rate of Transmitter                                                                                                                   | 1 Mbps             |
|                     | Number Of Channel                                                                                                                         | 40CH               |
|                     | Antenna Designation:                                                                                                                      | Please see Note 3. |
|                     | Output Power(Conducted):                                                                                                                  | -2.58dBm(PK)       |
|                     | Antenna Gain (dBi)                                                                                                                        | 0dbi               |
| Channel List        | Please refer to the Note 2.                                                                                                               |                    |
| Ratings             | DC 3.7V                                                                                                                                   |                    |
| Adapter             | M/N:HS05001000ES<br>INPUT:AC100-240V 50/60Hz 0.3A Max<br>OUTPUT:DC 5.0V,1.0A                                                              |                    |
| Battery             | DC 3.7V                                                                                                                                   |                    |
| BT versions         | V4.0 BLE because the firmware limitation, this product only supports BT4.0 BLE. And users can not enable other RF function by themselves. |                    |
| HW                  | V1.1                                                                                                                                      |                    |
| SW                  | V1.0                                                                                                                                      |                    |

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.
- 2.

| Channel | Frequency (MHz) |
|---------|-----------------|
| 00      | 2402            |
| 01      | 2404            |
| .....   | .....           |
| 38      | 2478            |
| 39      | 2480            |

- 3.



# Shenzhen Asia Test Technology Co., Ltd.

Report No. ATT2017SZ701127F  
- Page 8 of 48 -

Table for Filed Antenna

| Ant | Brand | Model Name | Antenna Type     | Connector | Gain (dBi) | NOTE       |
|-----|-------|------------|------------------|-----------|------------|------------|
| A   | N/A   | N/A        | Internal antenna | N/A       | 0          | BT Antenna |

## DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

| Pretest Mode | Description |
|--------------|-------------|
| Mode 1       | CH00        |
| Mode 2       | CH19        |
| Mode 3       | CH39        |
| Mode 4       | BT link     |

| For Conducted Emission |             |
|------------------------|-------------|
| Final Test Mode        | Description |
| Mode 4                 | BT link     |

| For Radiated Emission |             |
|-----------------------|-------------|
| Final Test Mode       | Description |
| Mode 1                | CH00        |
| Mode 2                | CH19        |
| Mode 3                | CH39        |

Note:

- (1) The measurements are performed at the highest, middle, lowest available channels. Test performed by full-charge battery.
- (2) The EUT was programmed to be in continuously transmitting mode and the transmit duty cycle is not less than 98%.



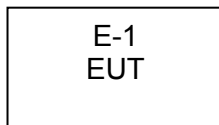
# Shenzhen Asia Test Technology Co., Ltd.

Report No. ATT2017SZ701127F

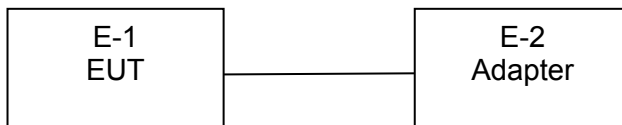
- Page 9 of 48 -

## BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Radiated Spurious Emission Test



Conducted Spurious Emission Test





## Shenzhen Asia Test Technology Co., Ltd.

Report No. ATT2017SZ701127F  
- Page 10 of 48 -

### DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

| Item | Equipment   | Brand | Model/Type No. | Series No. | Note |
|------|-------------|-------|----------------|------------|------|
| E-1  | Smart watch | N/A   | DI02           | N/A        | EUT  |
| E-2  | Adapter     | N/A   | HS05001000ES   |            |      |

| Item      | Shielded Type | Ferrite Core | Length | Note |
|-----------|---------------|--------------|--------|------|
| USB Cable | NO            | NO           | 100cm  |      |
|           |               |              |        |      |
|           |               |              |        |      |
|           |               |              |        |      |
|           |               |              |        |      |

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in 『Length』 column.



## Shenzhen Asia Test Technology Co., Ltd.

Report No. ATT2017SZ701127F

- Page 11 of 48 -

### EQUIPMENTS LIST FOR ALL TEST ITEMS

| Equipment No. | Instrument              | Manufacturer      | Model Name | Serial Number | Specification  | Cal. Data  | calibration due dates |
|---------------|-------------------------|-------------------|------------|---------------|----------------|------------|-----------------------|
| 1             | Semi-anechoic chamber   | Changzhou Chengyu | EC3088     | N/A           | 9*6*6m         | 10/25/2016 | 10/24/2017            |
| 2             | Loop Antenna            | ARA               | PLA-1030/B | 1029          | 9kHz-30 MHz    | 03/20/2017 | 03/19/2018            |
| 3             | Broadband antenna       | R&S               | VULB 9160  | VULB91 60-516 | 30MHz-1500 MHz | 10/25/2016 | 10/24/2017            |
| 4             | Horn antenna            | R&S               | BBHA 9120D | 10087         | 1GHz-18GHz     | 10/25/2016 | 10/24/2017            |
| 5             | SHF-EHF Horn            | SCHWARZBECK       | BBHA9170   | BBHA9170367   | 15GHz-26.5GHz  | 12/03/2016 | 12/02/2017            |
| 6             | Test receiver           | R&S               | ESCI       | 101686        | 9KHz-3GHz      | 10/25/2016 | 10/24/2017            |
| 7             | EMI Measuring Receiver  | Agilent           | N9020A     | MY49100104    | 20KHz-26.5GHz  | 10/25/2016 | 10/24/2017            |
| 8             | Multi-device controller | MF                | MF-7868    | MF78680 8762  | N/A            | 10/25/2016 | 10/24/2017            |
| 9             | Amplifier               | EM                | EM-30180   | 060538        | 1GHz-18GHz     | 10/25/2016 | 10/24/2017            |
| 10            | Amplifier               | Schwarzbeck       | BBV 9475   | BBV 9475-663  | 1GHz-18GHz     | 06/05/2016 | 06/04/2017            |
| 11            | Spectrum Analyzer       | agilent           | E4440B     | US44300368    | 9kHz-26.5GHz   | 06/05/2016 | 06/04/2017            |
| 12            | Test receiver           | R&S               | ESCI       | 101689        | 9KHz-3GHz      | 10/25/2016 | 10/24/2017            |
| 13            | LISN                    | R&S               | NSLK81 26  | 8126466       | 9k-30MHz       | 10/25/2016 | 10/24/2017            |
| 14            | LISN                    | Narda             | L2-16B     | 5589756       | 9k-30MHz       | 10/25/2016 | 10/24/2017            |
| 15            | Power Meter             | Anritsu           | ML2495A    | N/A           | 40MHz          | 10/25/2016 | 10/24/2017            |
| 16            | Power sensor            | Anritsu           | MA2411B    | N/A           | 40MHz          | 10/25/2016 | 10/24/2017            |



## Shenzhen Asia Test Technology Co., Ltd.

Report No. ATT2017SZ701127F

- Page 12 of 48 -

|    |                          |          |           |     |             |            |            |
|----|--------------------------|----------|-----------|-----|-------------|------------|------------|
| 17 | Radiated<br>Cable 1#     | FUJIKURA | 5D-2W     | 01  | 30MHz-1GHz  | 10/25/2016 | 10/24/2017 |
| 18 | Radiated<br>Cable 2#     | FUJIKURA | 10D2W     | 02  | 1GHz -25GHz | 10/25/2016 | 10/24/2017 |
| 19 | Conducted<br>Cable 1#    | FUJIKURA | 1D-2W     | 01  | 9KHz-30MHz  | 10/25/2016 | 10/24/2017 |
| 20 | SMA Antenna<br>connector | Dosin    | Dosin-SMA | N/A | N/A         | 10/25/2016 | 10/24/2017 |

Note: The SMA antenna connector is soldered on the PCB board in order to perform conducted tests and this SMA antenna connector is listed in the equipment list.  
The Cal.Interval was one year



# Shenzhen Asia Test Technology Co., Ltd.

Report No. ATT2017SZ701127F  
- Page 13 of 48 -

## EMC EMISSION TEST

### CONDUCTED EMISSION MEASUREMENT

#### POWER LINE CONDUCTED EMISSION Limits (Frequency Range 150KHz-30MHz)

| FREQUENCY (MHz) | Quasi-peak | Average   | Standard |
|-----------------|------------|-----------|----------|
| 0.15 -0.5       | 66 - 56 *  | 56 - 46 * | CISPR    |
| 0.50 -5.0       | 56.00      | 46.00     | CISPR    |
| 5.0 -30.0       | 60.00      | 50.00     | CISPR    |

|           |           |           |     |
|-----------|-----------|-----------|-----|
| 0.15 -0.5 | 66 - 56 * | 56 - 46 * | FCC |
| 0.50 -5.0 | 56.00     | 46.00     | FCC |
| 5.0 -30.0 | 60.00     | 50.00     | FCC |

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " \* " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

| Receiver Parameters | Setting  |
|---------------------|----------|
| Attenuation         | 10 dB    |
| Start Frequency     | 0.15 MHz |
| Stop Frequency      | 30 MHz   |
| IF Bandwidth        | 9 kHz    |



## Shenzhen Asia Test Technology Co., Ltd.

Report No. ATT2017SZ701127F

- Page 14 of 48 -

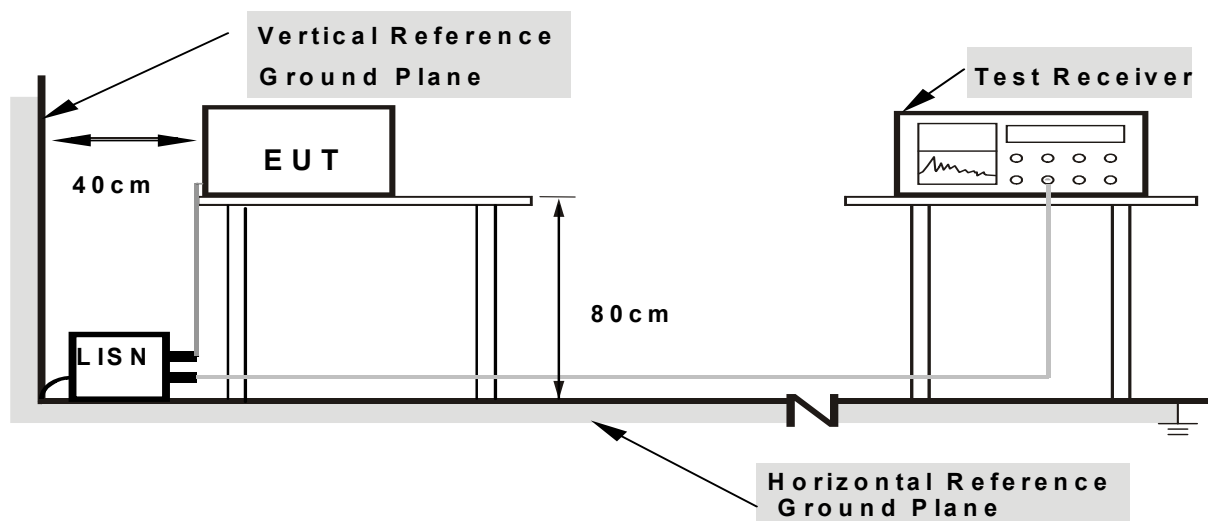
### TEST PROCEDURE

- The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- LISN at least 80 cm from nearest part of EUT chassis.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

### DEVIATION FROM TEST STANDARD

No deviation

### TEST SETUP



**Note: 1.Support units were connected to second LISN .**

**2.Both of LISNs (AMN) are 80 cm from EUT and at least 80  
from other units and other metal planes**

### EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.



# Shenzhen Asia Test Technology Co., Ltd.

Report No. ATT2017SZ701127F  
- Page 15 of 48 -

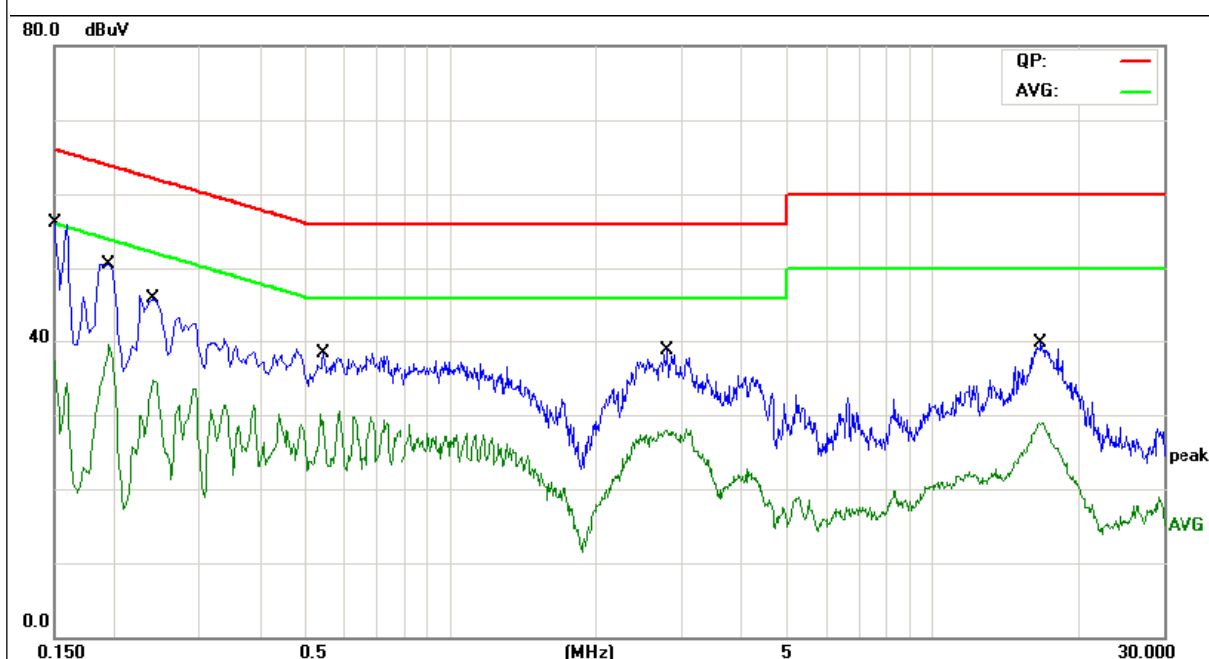
## TEST RESULTS

|              |             |                    |                               |
|--------------|-------------|--------------------|-------------------------------|
| EUT:         | Smart watch | Model Name. :      | DI02                          |
| Temperature: | 20 °C       | Relative Humidity: | 48%                           |
| Pressure:    | 1010 hPa    | Test Voltage :     | DC 5V by adapter AC 120V/60Hz |
| Test Mode :  | 4           | Phase:             | L                             |

| No. | Mk. | Freq.   | Reading Level | Correct Factor | Measurement | Limit | Over   | Detector | Comment |
|-----|-----|---------|---------------|----------------|-------------|-------|--------|----------|---------|
|     |     | MHz     | dBuV          | dB             | dBuV        | dBuV  | dB     |          |         |
| 1   | *   | 0.1500  | 44.53         | 11.47          | 56.00       | 65.99 | -9.99  | QP       |         |
| 2   |     | 0.1500  | 25.88         | 11.47          | 37.35       | 55.99 | -18.64 | AVG      |         |
| 3   |     | 0.1949  | 39.12         | 11.45          | 50.57       | 63.82 | -13.25 | QP       |         |
| 4   |     | 0.1949  | 27.96         | 11.45          | 39.41       | 53.82 | -14.41 | AVG      |         |
| 5   |     | 0.2400  | 34.38         | 11.43          | 45.81       | 62.09 | -16.28 | QP       |         |
| 6   |     | 0.2400  | 23.19         | 11.43          | 34.62       | 52.09 | -17.47 | AVG      |         |
| 7   |     | 0.5323  | 26.97         | 11.28          | 38.25       | 56.00 | -17.75 | QP       |         |
| 8   |     | 0.5323  | 18.88         | 11.28          | 30.16       | 46.00 | -15.84 | AVG      |         |
| 9   |     | 2.8004  | 27.38         | 11.41          | 38.79       | 56.00 | -17.21 | QP       |         |
| 10  |     | 2.8004  | 16.58         | 11.41          | 27.99       | 46.00 | -18.01 | AVG      |         |
| 11  |     | 16.7504 | 28.36         | 11.29          | 39.65       | 60.00 | -20.35 | QP       |         |
| 12  |     | 16.7504 | 17.68         | 11.29          | 28.97       | 50.00 | -21.03 | AVG      |         |

Remark:

Factor = Insertion Loss + Cable Loss.





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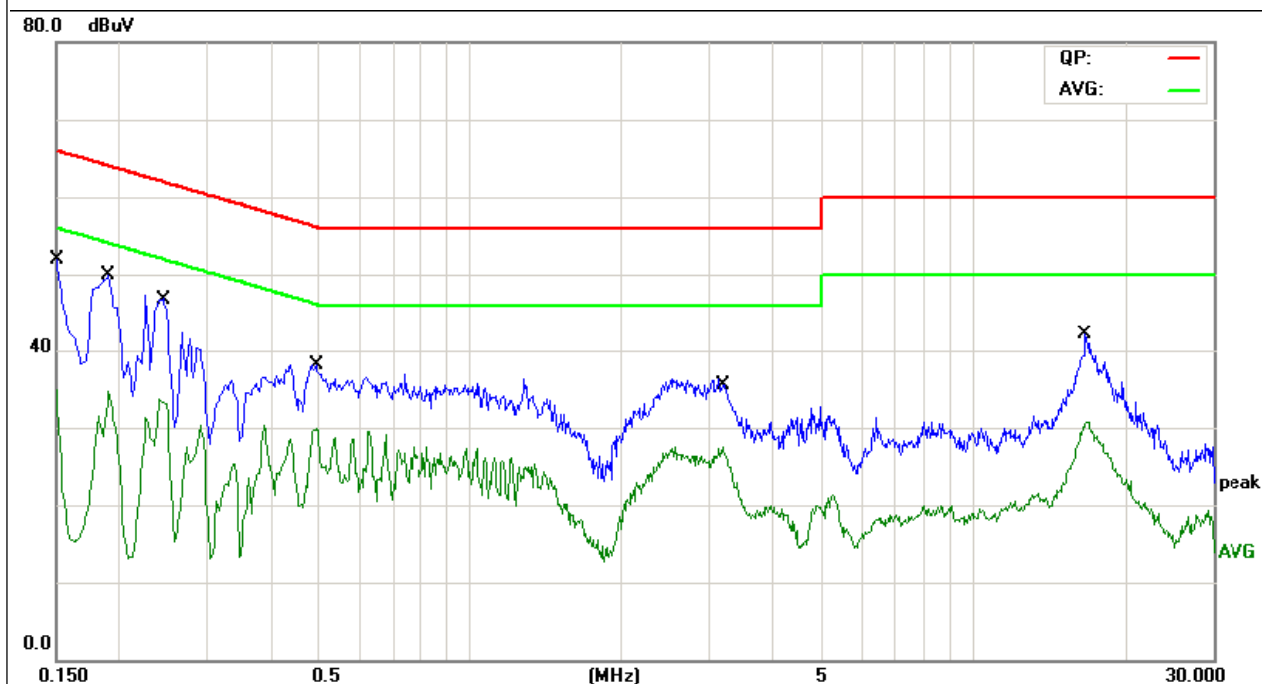
Report No. ATT2017SZ701127F  
- Page 16 of 48 -

|              |             |                    |                               |
|--------------|-------------|--------------------|-------------------------------|
| EUT:         | Smart watch | Model Name. :      | DI02                          |
| Temperature: | 20 °C       | Relative Humidity: | 48%                           |
| Pressure:    | 1010 hPa    | Test Voltage :     | DC 5V by adapter AC 120V/60Hz |
| Test Mode :  | 4           | Phase:             | N                             |

| No. | Mk. | Freq.   | Reading Level | Correct Factor | Measurement | Limit | Over   |          |         |
|-----|-----|---------|---------------|----------------|-------------|-------|--------|----------|---------|
|     |     | MHz     | dBuV          | dB             | dBuV        | dBuV  | dB     | Detector | Comment |
| 1   | *   | 0.1500  | 40.50         | 11.47          | 51.97       | 65.99 | -14.02 | QP       |         |
| 2   |     | 0.1500  | 23.33         | 11.47          | 34.80       | 55.99 | -21.19 | AVG      |         |
| 3   |     | 0.1905  | 38.41         | 11.45          | 49.86       | 64.01 | -14.15 | QP       |         |
| 4   |     | 0.1905  | 23.33         | 11.45          | 34.78       | 54.01 | -19.23 | AVG      |         |
| 5   |     | 0.2400  | 35.37         | 11.43          | 46.80       | 62.09 | -15.29 | QP       |         |
| 6   |     | 0.2400  | 22.18         | 11.43          | 33.61       | 52.09 | -18.48 | AVG      |         |
| 7   |     | 0.4964  | 26.87         | 11.30          | 38.17       | 56.06 | -17.89 | QP       |         |
| 8   |     | 0.4964  | 18.53         | 11.30          | 29.83       | 46.06 | -16.23 | AVG      |         |
| 9   |     | 3.1829  | 25.04         | 11.27          | 36.31       | 56.00 | -19.69 | QP       |         |
| 10  |     | 3.1829  | 16.18         | 11.27          | 27.45       | 46.00 | -18.55 | AVG      |         |
| 11  |     | 16.9080 | 30.81         | 11.26          | 42.07       | 60.00 | -17.93 | QP       |         |
| 12  |     | 16.9080 | 19.52         | 11.26          | 30.78       | 50.00 | -19.22 | AVG      |         |

Remark:

Factor = Insertion Loss + Cable Loss.





## RADIATED EMISSION MEASUREMENT

### RADIATED EMISSION LIMITS (Frequency Range 9kHz-1000MHz)

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a)&A8.5, then the 15.209(a) limit in the table below has to be followed.

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced 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 that the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of root-mean-square averaging over a time interval, as permitted under Section A8.4 (4), the attenuation required shall be 30 dB instead of 20 dB. Attenuation below the general field strength limits specified in RSS-Gen is not required.

| Frequencies<br>(MHz) | Field Strength<br>(micorvolts/meter) | Measurement Distance<br>(meters) |
|----------------------|--------------------------------------|----------------------------------|
| 0.009~0.490          | 2400/F(KHz)                          | 300                              |
| 0.490~1.705          | 24000/F(KHz)                         | 30                               |
| 1.705~30.0           | 30                                   | 30                               |
| 30~88                | 100                                  | 3                                |
| 88~216               | 150                                  | 3                                |
| 216~960              | 200                                  | 3                                |
| Above 960            | 500                                  | 3                                |

### LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

| FREQUENCY (MHz) | PEAK | AVERAGE |
|-----------------|------|---------|
| Above 1000      | 74   | 54      |

Notes:

(1) Emission level (dBuV/m)=20log Emission level (uV/m).

| Spectrum Parameter                    | Setting                                          |
|---------------------------------------|--------------------------------------------------|
| Attenuation                           | Auto                                             |
| Start Frequency                       | 1000 MHz                                         |
| Stop Frequency                        | 10th carrier harmonic                            |
| RB / VB (emission in restricted band) | 1 MHz / 1 MHz for Peak, 1 MHz / 10Hz for Average |



## Shenzhen Asia Test Technology Co., Ltd.

Report No. ATT2017SZ701127F  
- Page 18 of 48 -

| Receiver Parameter     | Setting                          |
|------------------------|----------------------------------|
| Attenuation            | Auto                             |
| Start ~ Stop Frequency | 9kHz~150kHz / RB 200Hz for QP    |
| Start ~ Stop Frequency | 150kHz~30MHz / RB 9kHz for QP    |
| Start ~ Stop Frequency | 30MHz~1000MHz / RB 120kHz for QP |

### TEST PROCEDURE

- The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- The EUT was placed on the top of a rotating table 0.1m above the ground at a 3 meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

Note: For radiated emission test above 1GHz:

Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported.

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.

### DEVIATION FROM TEST STANDARD

No deviation



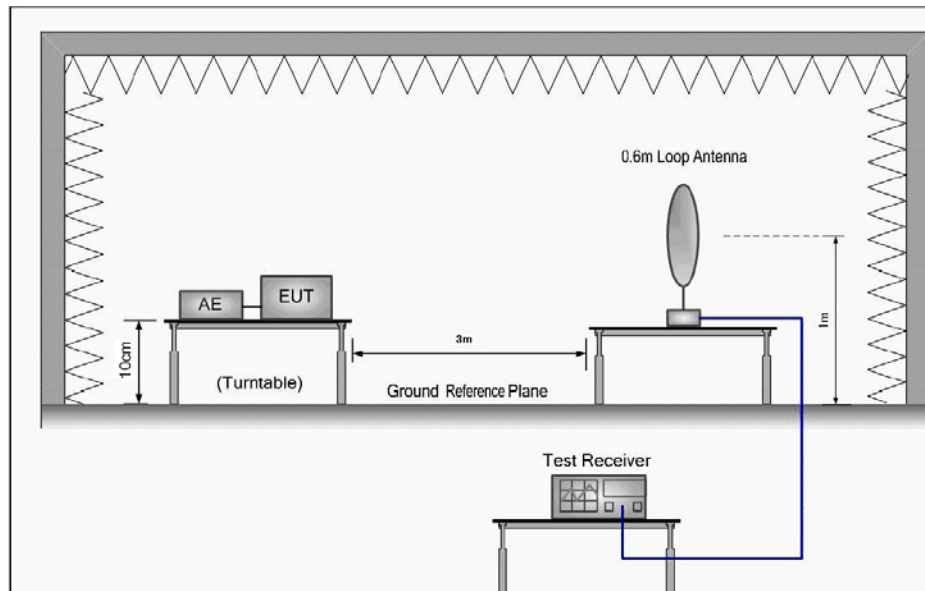
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Report No. ATT2017SZ701127F

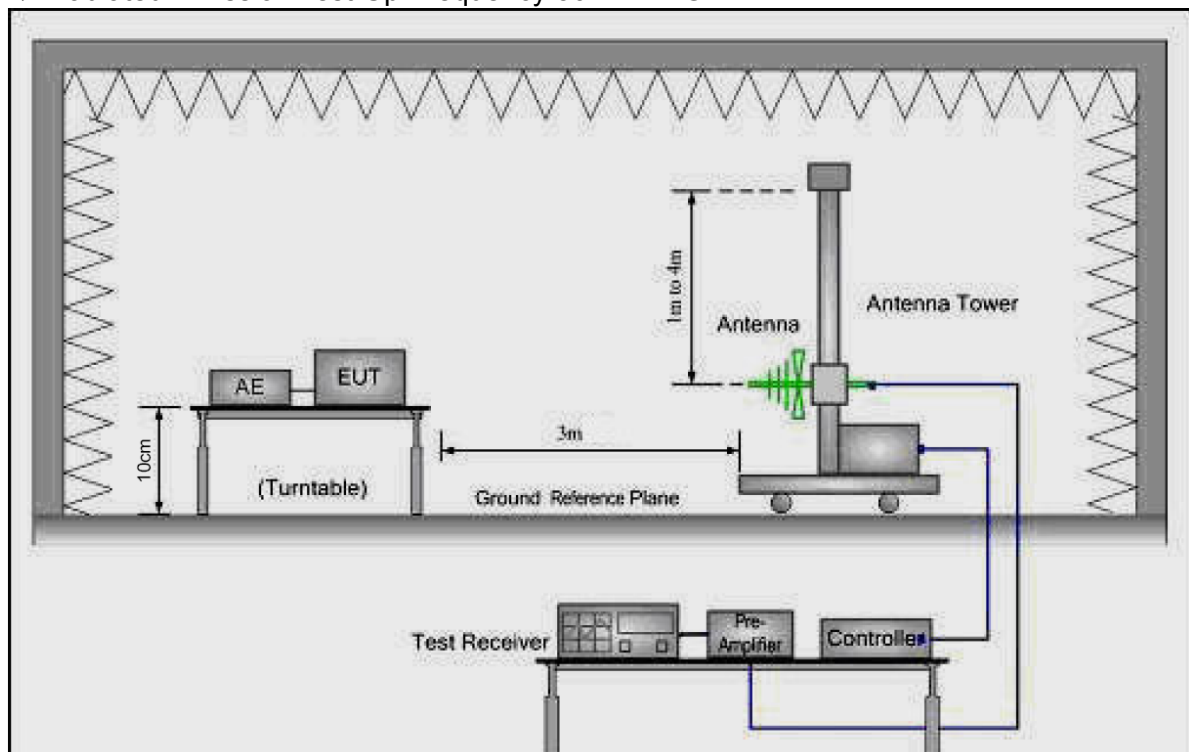
- Page 19 of 48 -

## TEST SETUP

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



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



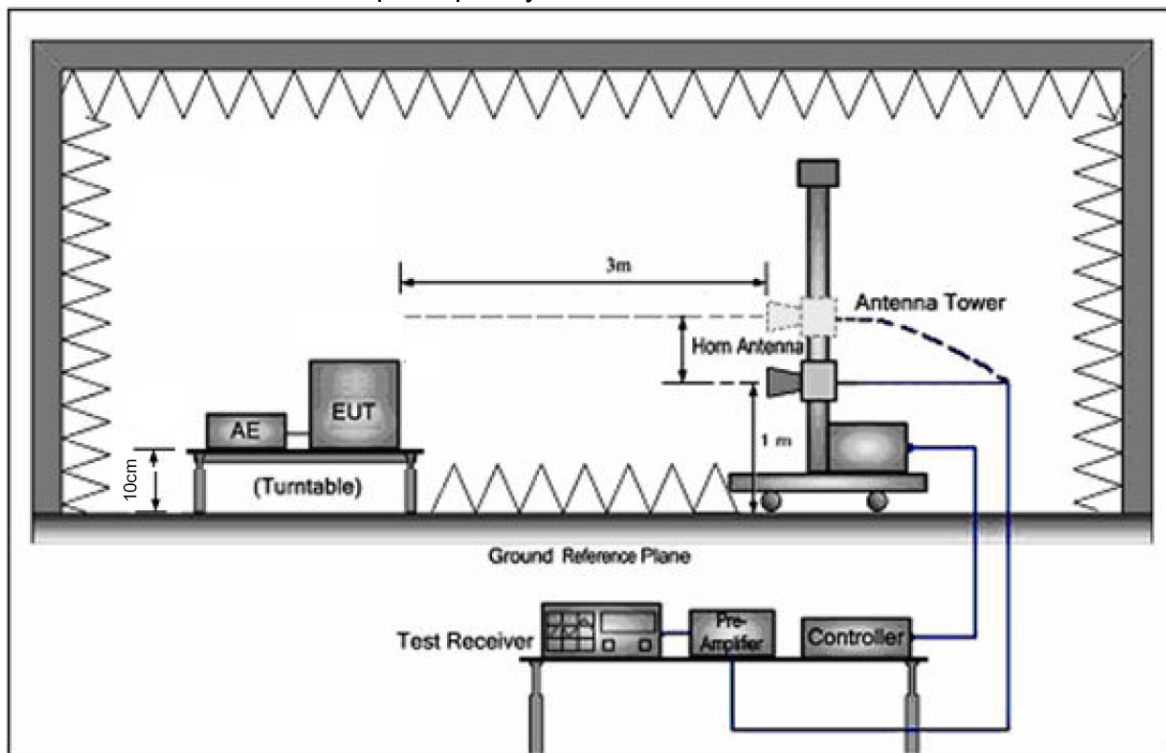


## Shenzhen Asia Test Technology Co., Ltd.

Report No. ATT2017SZ701127F

- Page 20 of 48 -

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



### EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.



## Shenzhen Asia Test Technology Co., Ltd.

Report No. ATT2017SZ701127F  
- Page 21 of 48 -

### TEST RESULTS (BETWEEN 9KHZ – 30 MHZ)

|              |             |                    |                   |
|--------------|-------------|--------------------|-------------------|
| EUT:         | Smart watch | Model Name. :      | DI02              |
| Temperature: | 20 °C       | Relative Humidity: | 48%               |
| Pressure:    | 1010 hPa    | Test Voltage :     | DC 36V by battery |
| Test Mode :  | TX          | Polarization :     | --                |

| Freq. | Reading  | Limit    | Margin | State |
|-------|----------|----------|--------|-------|
| (MHz) | (dBuV/m) | (dBuV/m) | (dB)   | P/F   |
| --    | --       | --       | --     | P     |
| --    | --       | --       | --     | P     |

### NOTE:

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

Distance extrapolation factor =  $40 \log (\text{specific distance/test distance})$ (dB);

Limit line = specific limits(dBuv) + distance extrapolation factor.

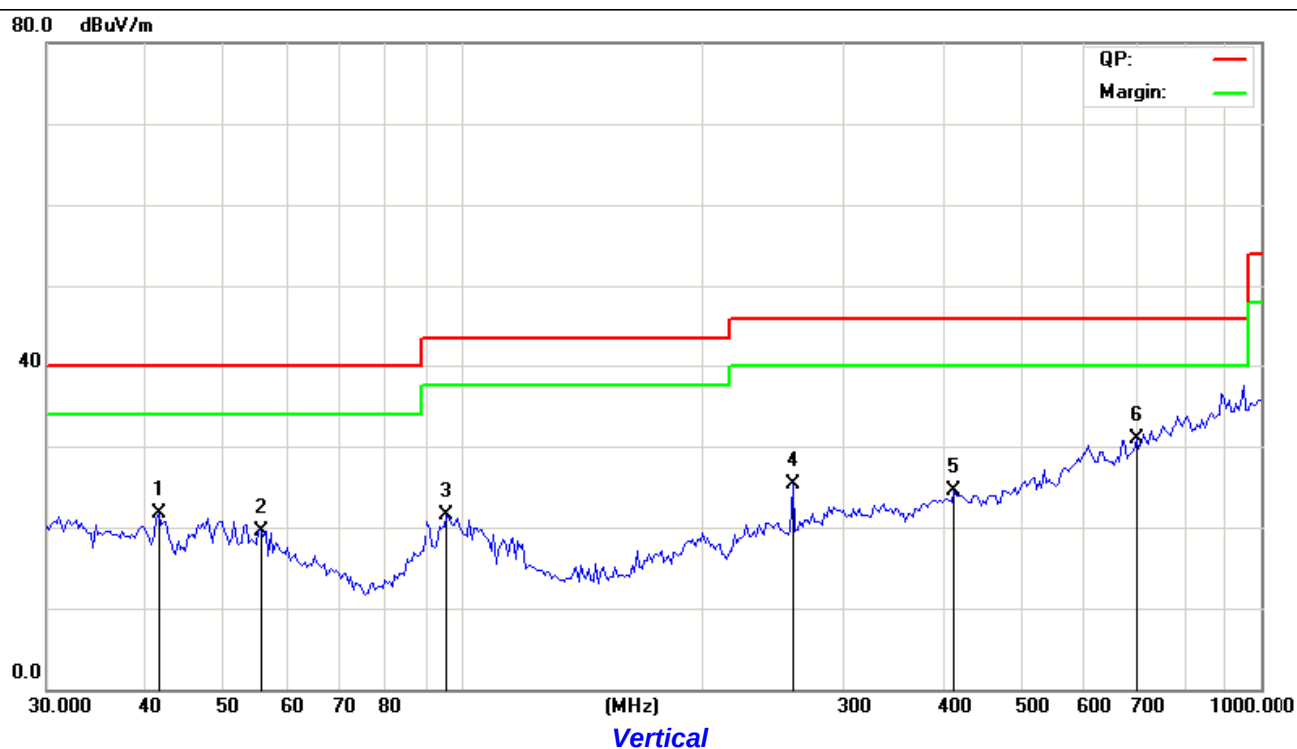


# Shenzhen Asia Test Technology Co., Ltd.

Report No. ATT2017SZ701127F  
- Page 22 of 48 -

## TEST RESULTS (BETWEEN 30MHZ – 1GHZ)

|               |                     |                     |                   |
|---------------|---------------------|---------------------|-------------------|
| EUT :         | Smart watch         | Model Name :        | SMS608            |
| Temperature : | 20 °C               | Relative Humidity : | 48%               |
| Pressure:     | 1010 hPa            | Test Voltage :      | DC 36V by battery |
| Test Mode :   | TX 2440(worse-case) |                     |                   |



| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit  | Over   |          |         |
|-----|-----|----------|---------------|----------------|-------------|--------|--------|----------|---------|
|     |     | MHz      | dBuV          | dB             | dBuV/m      | dBuV/m | dB     | Detector | Comment |
| 1   |     | 41.4483  | 31.51         | -9.81          | 21.70       | 40.00  | -18.30 | QP       |         |
| 2   |     | 55.6781  | 29.42         | -9.85          | 19.57       | 40.00  | -20.43 | QP       |         |
| 3   |     | 95.6483  | 32.57         | -10.99         | 21.58       | 43.50  | -21.92 | QP       |         |
| 4   |     | 259.4433 | 34.34         | -8.94          | 25.40       | 46.00  | -20.60 | QP       |         |
| 5   |     | 412.5394 | 28.26         | -3.70          | 24.56       | 46.00  | -21.44 | QP       |         |
| 6   | *   | 698.8034 | 28.36         | 2.63           | 30.99       | 46.00  | -15.01 | QP       |         |

### Remark:

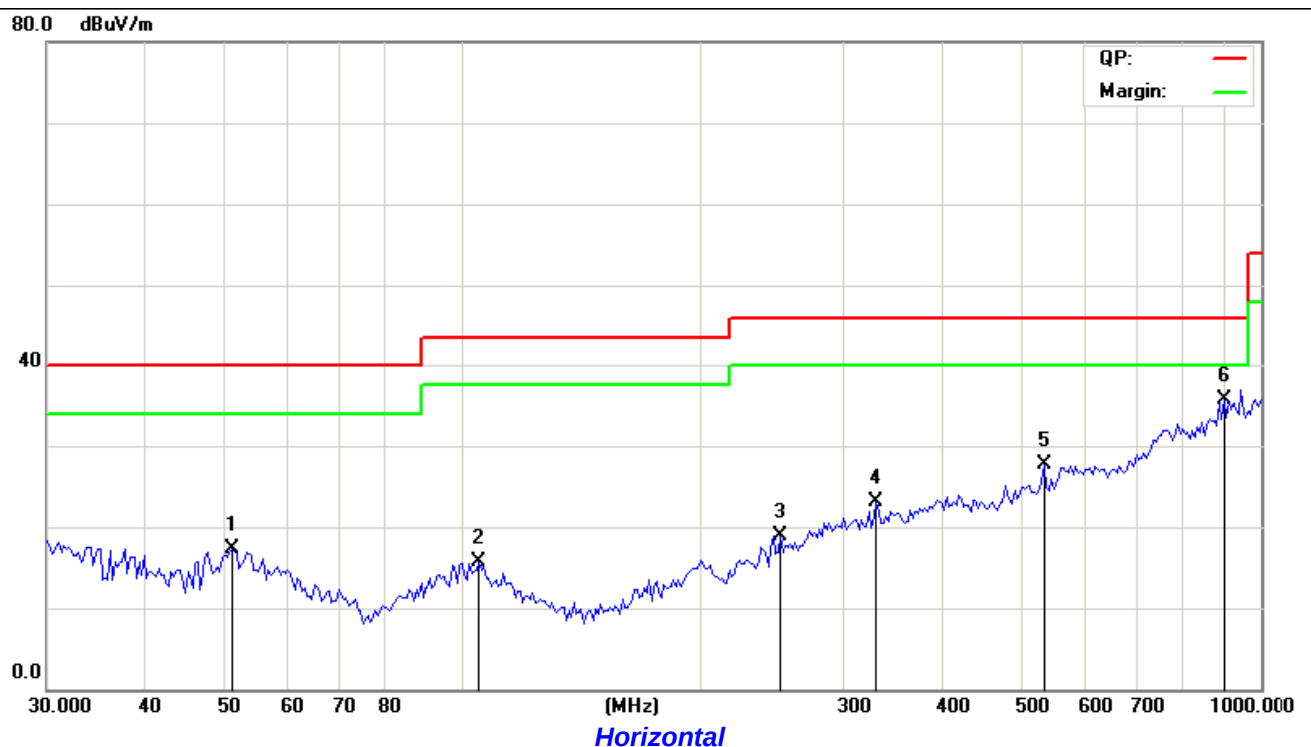
Measurement Level= ReadingLevel+ Factor, Margin= Measurement Level - Limit



# Shenzhen Asia Test Technology Co., Ltd.

Report No. ATT2017SZ701127F

- Page 23 of 48 -



| No. | Mk. | Freq.    | Reading | Correct | Measure- | Limit  | Over   |          |         |
|-----|-----|----------|---------|---------|----------|--------|--------|----------|---------|
|     |     | MHz      | Level   | Factor  | ment     |        |        | Detector | Comment |
|     |     |          | dBuV    | dB      | dBuV/m   | dBuV/m | dB     |          |         |
| 1   |     | 51.1756  | 26.68   | -9.40   | 17.28    | 40.00  | -22.72 | peak     |         |
| 2   |     | 104.7977 | 24.79   | -9.18   | 15.61    | 43.50  | -27.89 | peak     |         |
| 3   |     | 250.4858 | 27.85   | -8.99   | 18.86    | 46.00  | -27.14 | peak     |         |
| 4   |     | 329.4624 | 29.02   | -5.84   | 23.18    | 46.00  | -22.82 | peak     |         |
| 5   |     | 535.0375 | 30.19   | -2.56   | 27.63    | 46.00  | -18.37 | peak     |         |
| 6   | *   | 899.9577 | 30.00   | 5.66    | 35.66    | 46.00  | -10.34 | peak     |         |

## Remark:

Measurement Level= ReadingLevel+ Factor, Margin= Measurement Level - Limit



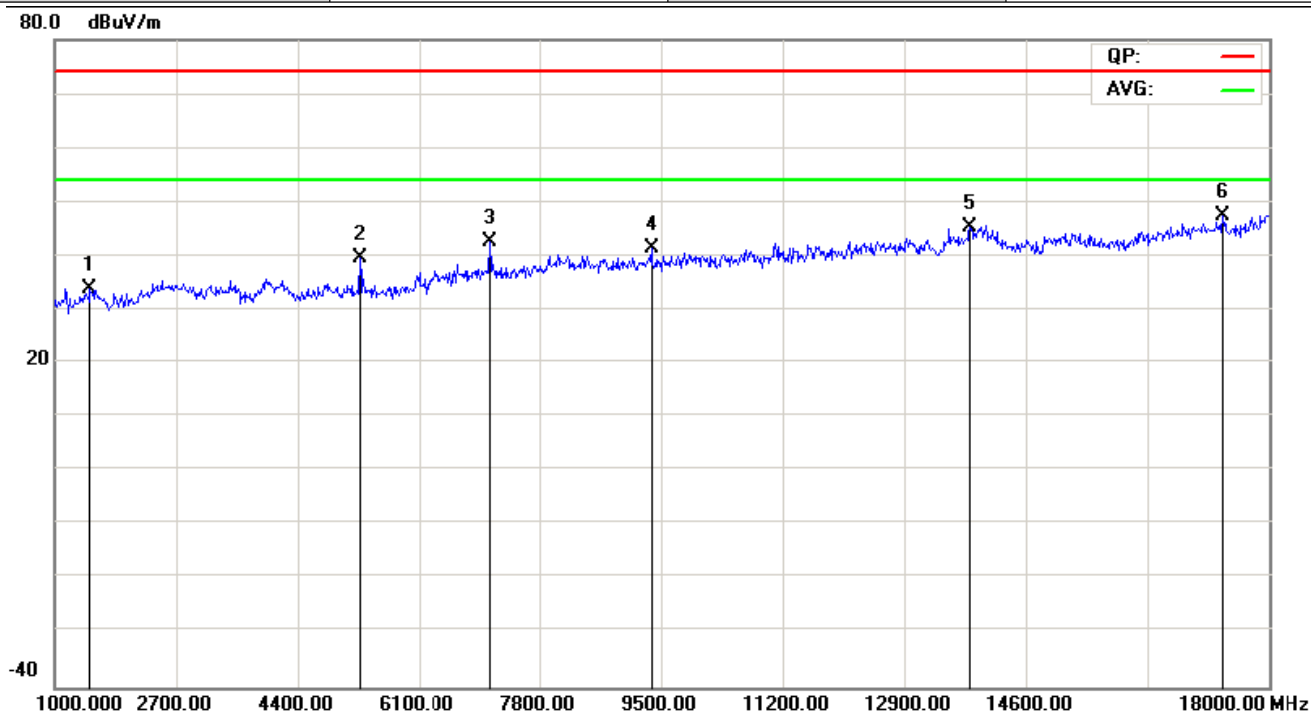
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Report No. ATT2017SZ701127F  
- Page 24 of 48 -

## TEST RESULTS (1GHZ~ 10TH HARMONIC)

Note: We tested lowest, middle, highest channels, recorded the worst case at the 2402MHz.

|                  |             |               |            |
|------------------|-------------|---------------|------------|
| Test mode:       | TX 2402 MHz | Polarization: | Horizontal |
| Frequency range: | 1-26.5GHz   |               |            |



| Freq.<br>(MHz) | Reading<br>(dBμV) | Factor<br>(dB) | Measure-ment<br>(dBμV/m) | Limit<br>(dBμV/m) | Margin<br>(dB) | Detector<br>(PK/QP/AV) | Polar<br>(H/V) |
|----------------|-------------------|----------------|--------------------------|-------------------|----------------|------------------------|----------------|
| 1493           | 45.79             | -11.74         | 34.05                    | 74                | -39.95         | peak                   | H              |
| 5267           | 39.98             | -0.4           | 39.58                    | 74                | -34.42         | peak                   | H              |
| 7103           | 38.92             | 3.63           | 42.55                    | 74                | -31.45         | peak                   | H              |
| 9364           | 36                | 5.31           | 41.31                    | 74                | -32.69         | peak                   | H              |
| 13818.00<br>0  | 33.36             | 12.12          | 45.48                    | 74                | -28.52         | peak                   | H              |
| 17354.00<br>0  | 35.4              | 11.93          | 47.33                    | 74                | -26.67         | peak                   | H              |

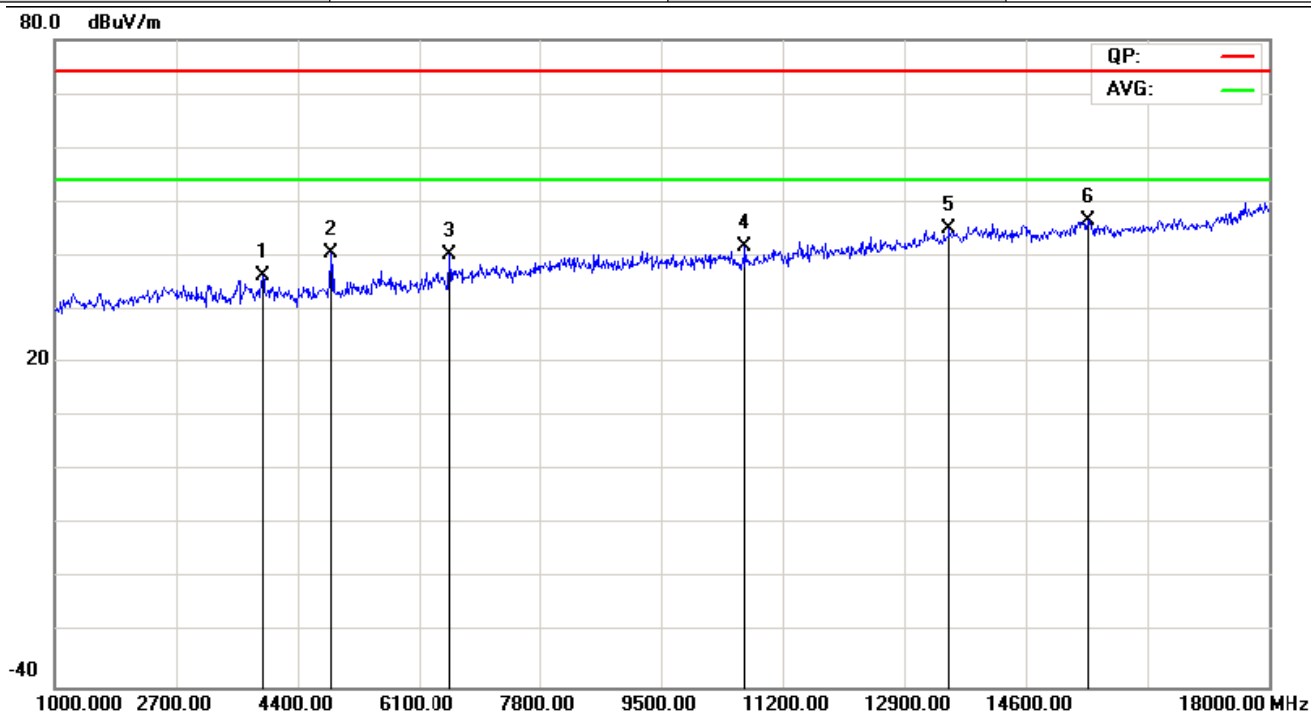
NOTE: No detected above 18GHz



# Shenzhen Asia Test Technology Co., Ltd.

Report No. ATT2017SZ701127F  
- Page 25 of 48 -

|                  |             |               |          |
|------------------|-------------|---------------|----------|
| Test mode:       | TX 2402 MHz | Polarization: | Vertical |
| Frequency range: | 1-26.5GHz   |               |          |



| Freq.<br>(MHz) | Reading<br>(dBμV) | Factor<br>(dB) | Measure-ment<br>(dBμV/m) | Limit<br>(dBμV/m) | Margin<br>(dB) | Detector<br>(PK/QP/AV) | Polar<br>(H/V) |
|----------------|-------------------|----------------|--------------------------|-------------------|----------------|------------------------|----------------|
| 3907           | 39.9              | -3.52          | 36.38                    | 74                | -37.62         | peak                   | V              |
| 4859           | 42.21             | -1.61          | 40.6                     | 74                | -33.4          | peak                   | V              |
| 6542           | 37.39             | 2.9            | 40.29                    | 74                | -33.71         | peak                   | V              |
| 10673.00       | 35.76             | 6.14           | 41.9                     | 74                | -32.1          | peak                   | V              |
| 13529.00       | 34.07             | 11.01          | 45.08                    | 74                | -28.92         | peak                   | V              |
| 15467.00       | 38.39             | 8.16           | 46.55                    | 74                | -27.45         | peak                   | V              |

NOTE: No detected above 18GHz



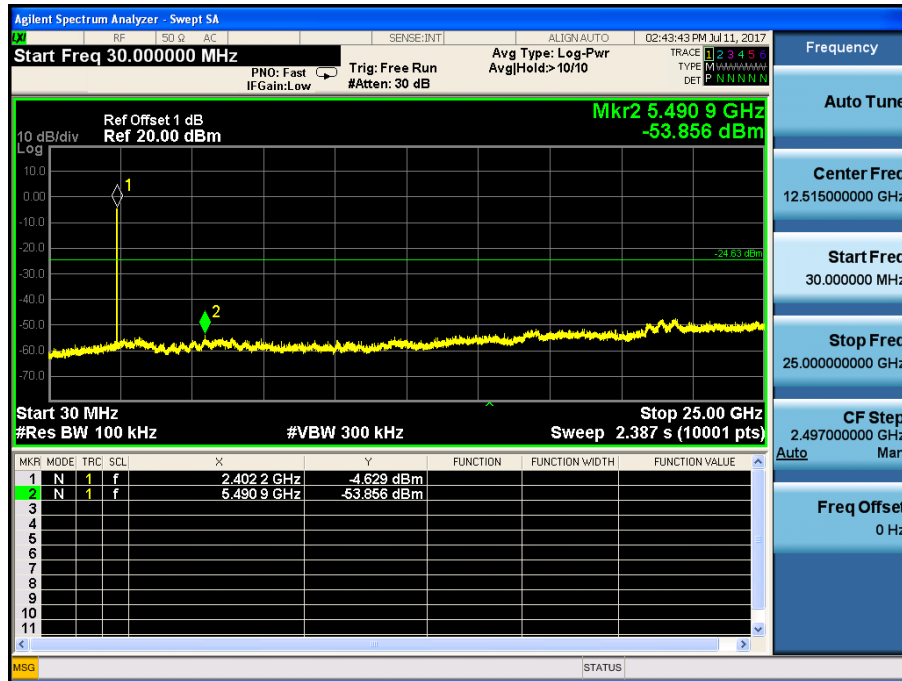
# Shenzhen Asia Test Technology Co., Ltd.

Report No. ATT2017SZ701127F

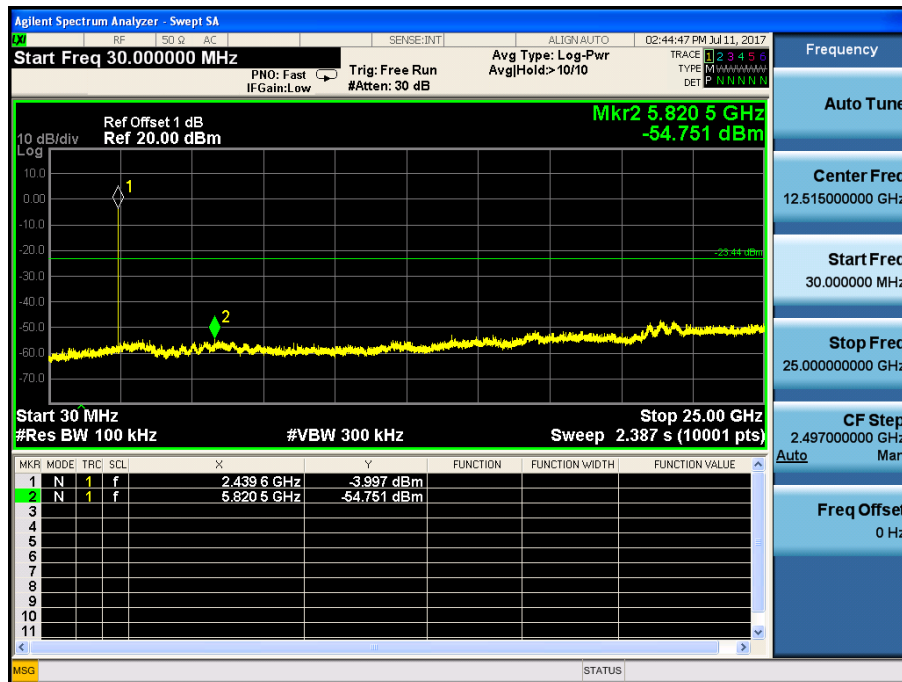
- Page 26 of 48 -

Conducted Spurious Emissions at Antenna Port:

## Low Channel



## Middle Channel



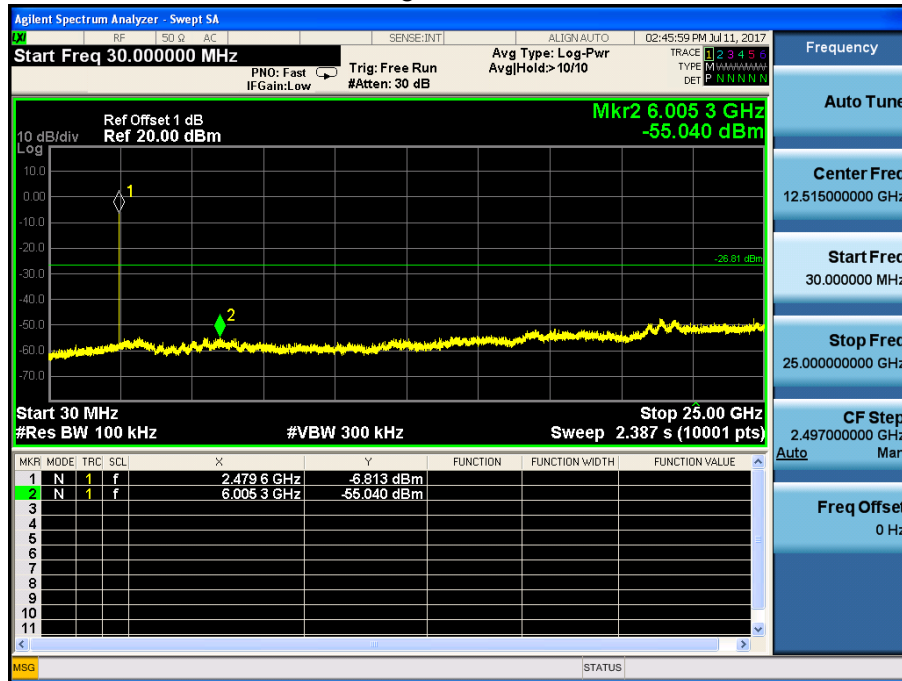


# Shenzhen Asia Test Technology Co., Ltd.

Report No. ATT2017SZ701127F

- Page 27 of 48 -

## High Channel





## POWER SPECTRAL DENSITY TEST

### APPLIED PROCEDURES / LIMIT

| FCC Part15 (15.247) , Subpart C&A8.2 |                        |                        |                       |        |
|--------------------------------------|------------------------|------------------------|-----------------------|--------|
| Section                              | Test Item              | Limit                  | Frequency Range (MHz) | Result |
| 15.247                               | Power Spectral Density | 8 dBm<br>(in any 3KHz) | 2400-2483.5           | PASS   |

### TEST PROCEDURE

1. Set analyzer center frequency to DTS channel center frequency.
2. Set the span to 1.5 times the DTS channel bandwidth.
3. Set the RBW  $\geq 3$  kHz.
4. Set the VBW  $\geq 3 \times$  RBW.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level.
10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

### DEVIATION FROM STANDARD

No deviation.

### TEST SETUP



### EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.1 Unless otherwise a special operating condition is specified in the follows during the testing.



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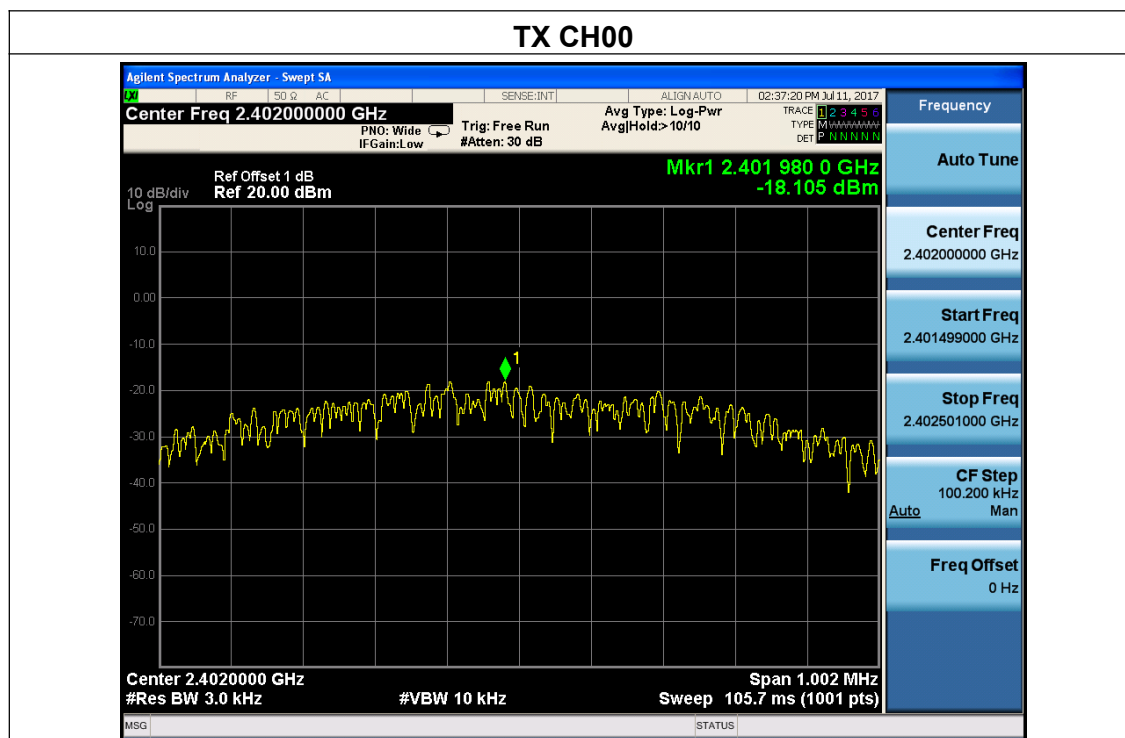
Report No. ATT2017SZ701127F  
- Page 29 of 48 -

## TEST RESULTS

|               |                           |                     |         |
|---------------|---------------------------|---------------------|---------|
| EUT :         | Smart watch               | Model Name :        | DI02    |
| Temperature : | 25 °C                     | Relative Humidity : | 56%     |
| Pressure :    | 1015 hPa                  | Test Voltage :      | DC 3.7V |
| Test Mode :   | TX Mode /CH00, CH19, CH39 |                     |         |

Note: The relevant measured result has the offset with cable loss already.

| Frequency | Power Density (dBm/3kHz) | Limit (dBm/3 kHz) | Result |
|-----------|--------------------------|-------------------|--------|
| 2402 MHz  | -18.11                   | 8                 | PASS   |
| 2440 MHz  | -18.70                   | 8                 | PASS   |
| 2480 MHz  | -19.45                   | 8                 | PASS   |

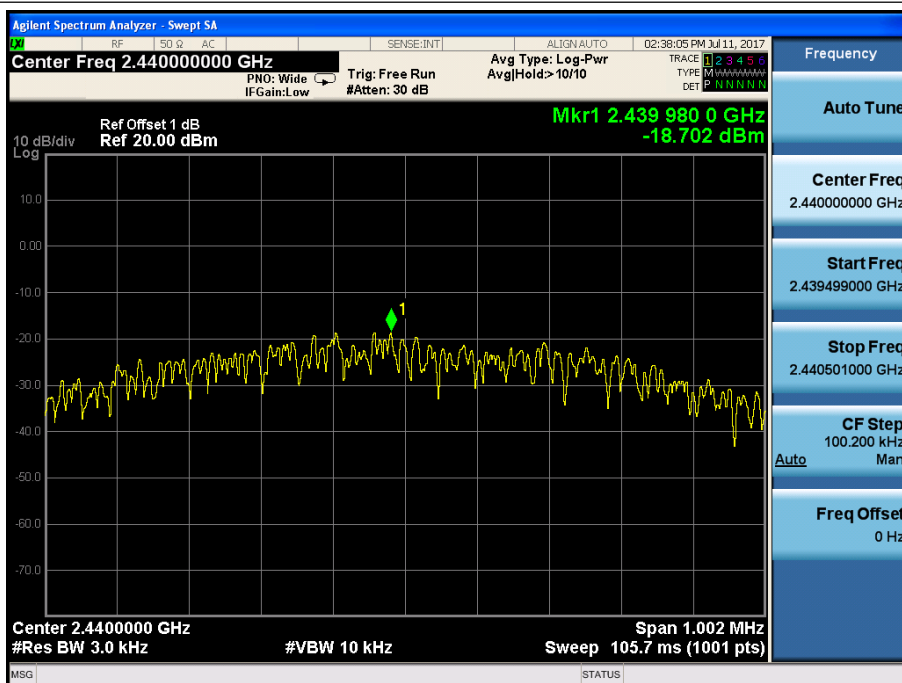




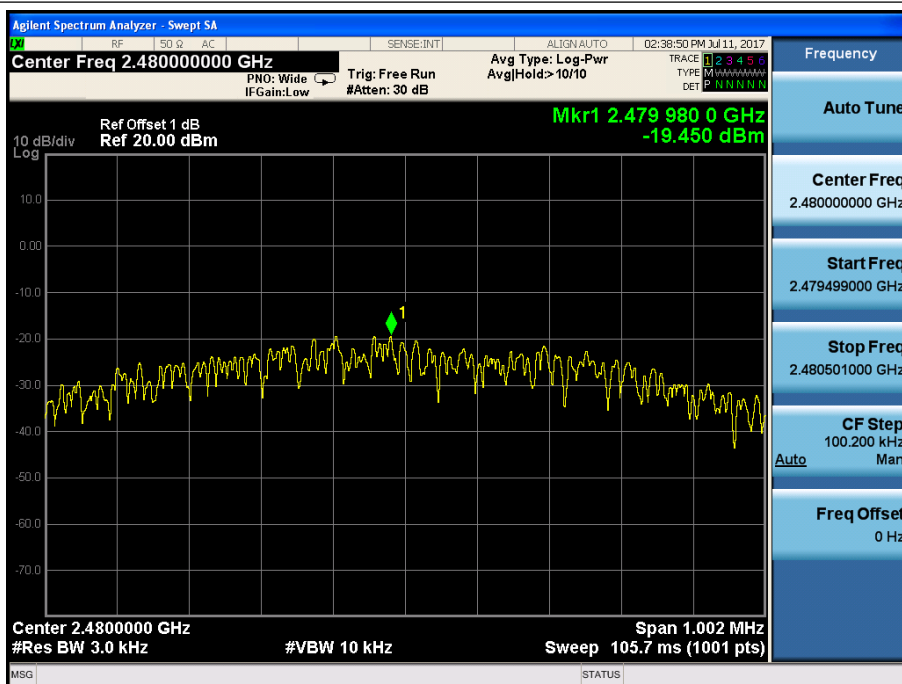
# Shenzhen Asia Test Technology Co., Ltd.

Report No. ATT2017SZ701127F  
- Page 30 of 48 -

## TX CH19



## TX CH39





## . BANDWIDTH TEST

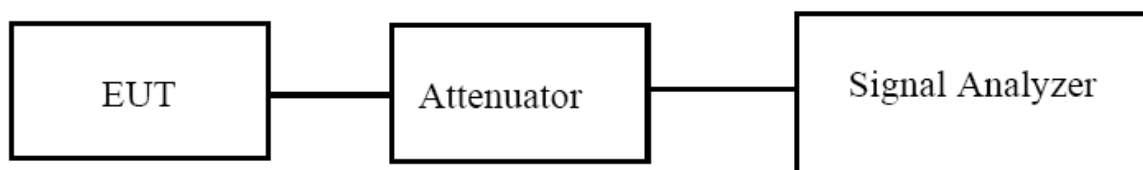
### APPLIED PROCEDURES / LIMIT

| FCC Part15 (15.247) , Subpart C&A8.2 |           |                                         |                       |        |
|--------------------------------------|-----------|-----------------------------------------|-----------------------|--------|
| Section                              | Test Item | Limit                                   | Frequency Range (MHz) | Result |
| 15.247(a)(2) &A8.2                   | Bandwidth | $\geq 500\text{KHz}$<br>(6dB bandwidth) | 2400-2483.5           | PASS   |

### TEST PROCEDURE

According to KDB 558074 D01 DTS Meas Guidance v03r04

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator
2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
3. Measure the frequency difference of two frequencies that were attenuated 6 dB from the reference level. Record the frequency difference as the emission bandwidth.
4. Repeat above procedures until all frequencies measured were complete.



### EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.



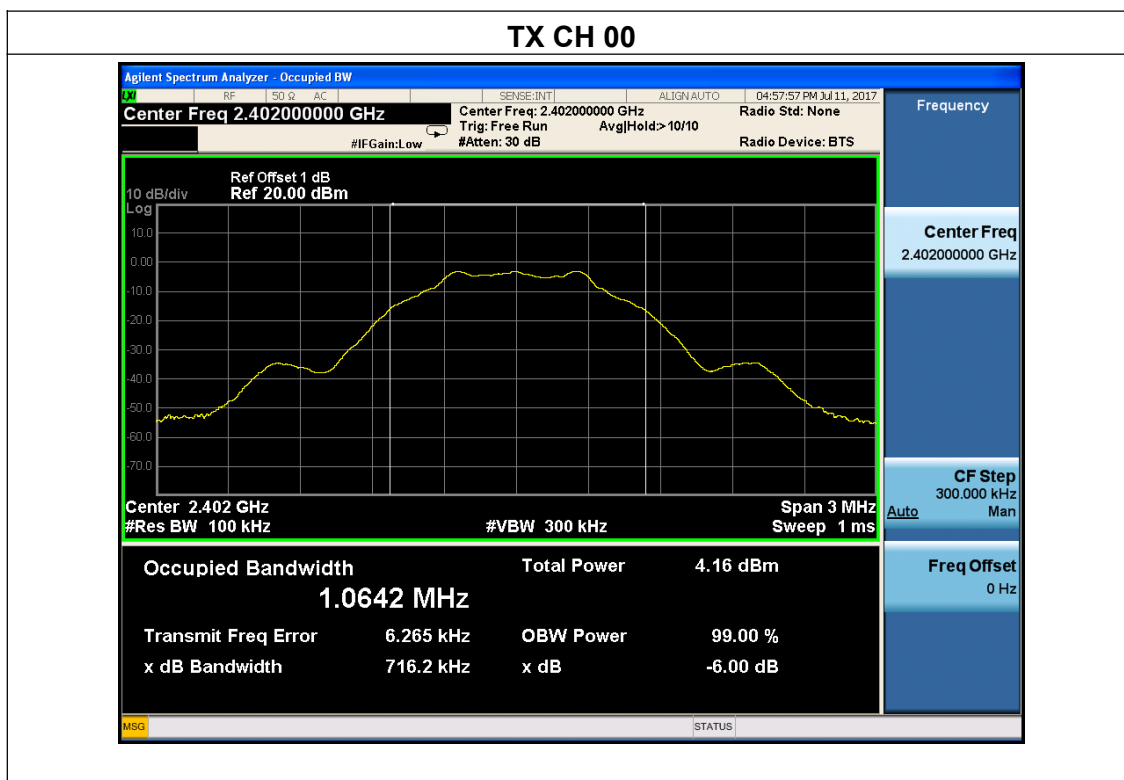
# Shenzhen Asia Test Technology Co., Ltd.

Report No. ATT2017SZ701127F  
- Page 32 of 48 -

## TEST RESULTS

|               |                           |                     |         |
|---------------|---------------------------|---------------------|---------|
| EUT :         | Smart watch               | Model Name :        | DI02    |
| Temperature : | 25 °C                     | Relative Humidity : | 56%     |
| Pressure :    | 1012 hPa                  | Test Voltage :      | DC 3.7V |
| Test Mode :   | TX Mode /CH00, CH19, CH39 |                     |         |

| Channel | Frequency (MHz) | 6dB bandwidth (kHz) | 99% bandwidth (MHz) | Limit (kHz) | Result |
|---------|-----------------|---------------------|---------------------|-------------|--------|
| Low     | 2402            | 716.2               | /                   | >500        | Pass   |
| Middle  | 2440            | 717.0               | /                   | >500        | Pass   |
| High    | 2480            | 718.3               | /                   | >500        | Pass   |



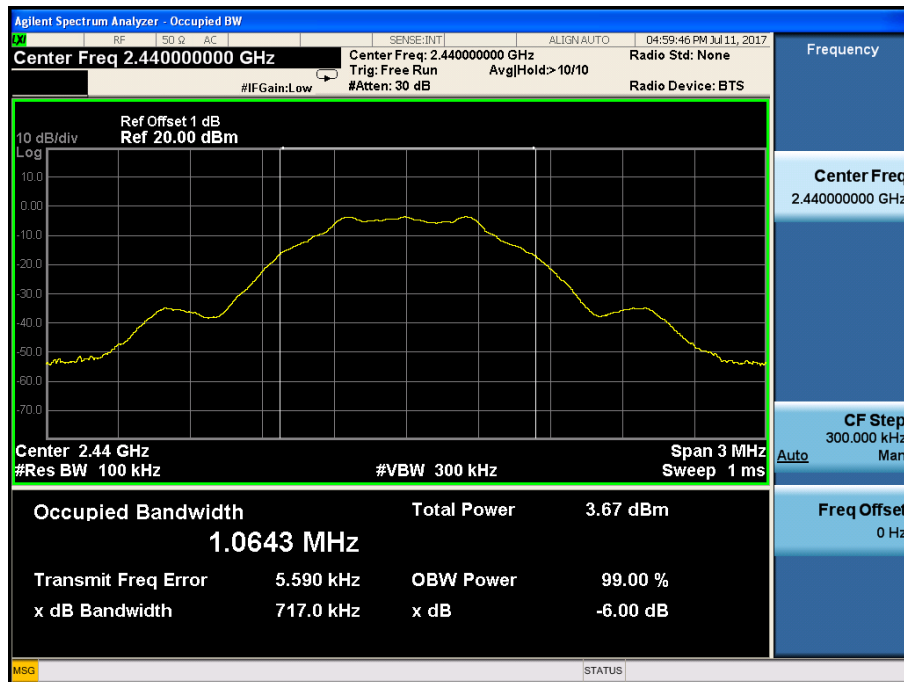


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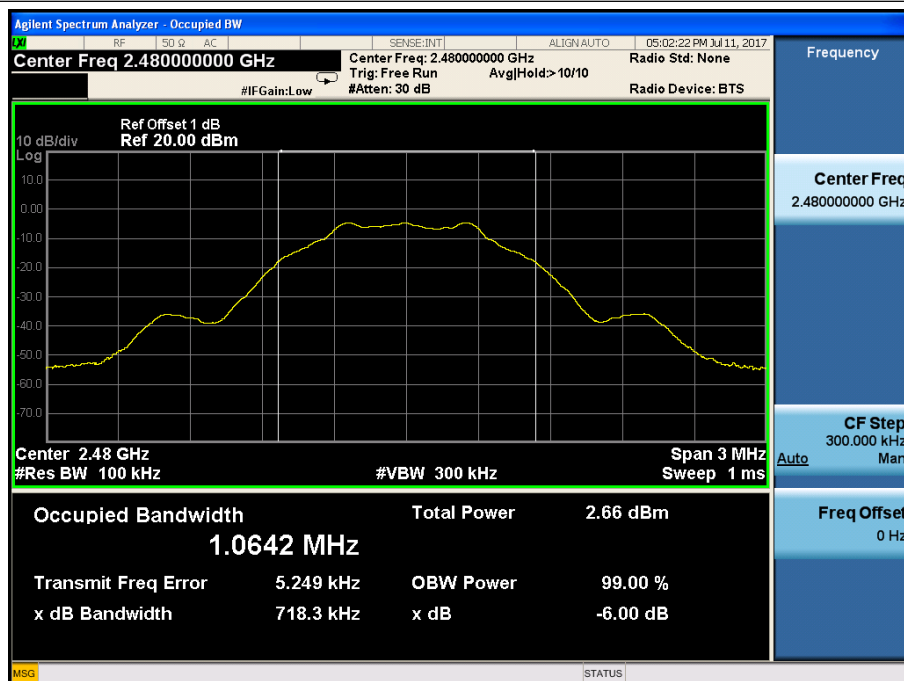
Report No. ATT2017SZ701127F

- Page 33 of 48 -

## TX CH 19



## TX CH 39





## Shenzhen Asia Test Technology Co., Ltd.

Report No. ATT2017SZ701127F  
- Page 34 of 48 -

### . PEAK OUTPUT POWER TEST

#### APPLIED PROCEDURES / LIMIT

| FCC Part15 (15.247) , Subpart C &A8.4 |                   |                 |                       |        |
|---------------------------------------|-------------------|-----------------|-----------------------|--------|
| Section                               | Test Item         | Limit           | Frequency Range (MHz) | Result |
| 15.247(b)(3) &A8.4                    | Peak Output Power | 1 watt or 30dBm | 2400-2483.5           | PASS   |

#### TEST PROCEDURE

- a. The EUT was directly connected to the Power meter

#### DEVIATION FROM STANDARD

No deviation.

#### TEST SETUP



#### EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.



## Shenzhen Asia Test Technology Co., Ltd.

Report No. ATT2017SZ701127F

- Page 35 of 48 -

### TEST RESULTS

|               |             |                     |         |
|---------------|-------------|---------------------|---------|
| EUT :         | Smart watch | Model Name :        | DI02    |
| Temperature : | 25 °C       | Relative Humidity : | 60%     |
| Pressure :    | 1012 hPa    | Test Voltage :      | DC 3.7V |
| Test Mode :   | TX Mode     |                     |         |

| TX Mode        |           |                                        |       |
|----------------|-----------|----------------------------------------|-------|
| Test<br>Channe | Frequency | Maximum Conducted Output Power<br>(PK) | LIMIT |
|                | (MHz)     | (dBm)                                  | dBm   |
| CH00           | 2402      | -2.58                                  | 30    |
| CH19           | 2440      | -3.15                                  | 30    |
| CH39           | 2480      | -3.91                                  | 30    |



**. 100 KHZ BANDWIDTH OF FREQUENCY BAND EDGE**  
**APPLICABLE STANDARD**

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 §15.209(a)&A1.1 is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a)&A8.5, must also comply with the radiated emission limits specified in §15.209(a) &A1.1 (see §15.205(c)) &A8.5.

**TEST PROCEDURE**

- a) Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- b) Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
- c) Set RBW to 100 kHz and VBW of spectrum analyzer to 300 kHz with a convenient frequency span including 100 kHz bandwidth from band edge.
- d) Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
- e) Repeat above procedures until all measured frequencies were complete.

**DEVIATION FROM STANDARD**

No deviation.

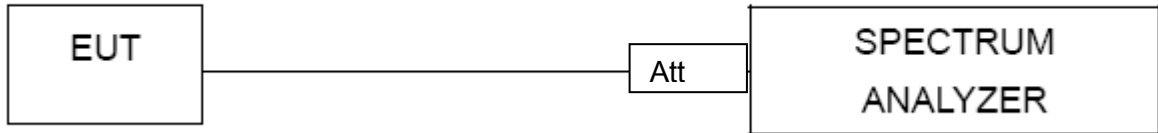


## Shenzhen Asia Test Technology Co., Ltd.

Report No. ATT2017SZ701127F

- Page 37 of 48 -

### TEST SETUP



### EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.



# Shenzhen Asia Test Technology Co., Ltd.

Report No. ATT2017SZ701127F  
- Page 38 of 48 -

## RADIATED BANDEDGE TEST RESULTS

|               |             |                     |         |
|---------------|-------------|---------------------|---------|
| EUT :         | Smart watch | Model Name :        | DI02    |
| Temperature : | 25 °C       | Relative Humidity : | 56%     |
| Pressure :    | 1012 hPa    | Test Voltage :      | DC 3.7V |

| Frequency Band | Delta Peak to<br>(dBc)band emission | > Limit<br>(dBc) | Result |
|----------------|-------------------------------------|------------------|--------|
| 2390.00        | 51.41                               | 20               | Pass   |
| 2483.50        | 52.03                               | 20               | Pass   |

| Frequency<br>(MHz) | Meter Reading<br>(dBμV) | Factor<br>(dB) | Emission Level<br>(dBμV/m) | Limits<br>(dBμV/m) | Margin<br>(dB) | Detector<br>Type | Comment    |
|--------------------|-------------------------|----------------|----------------------------|--------------------|----------------|------------------|------------|
| 2390               | 49.67                   | 1.05           | 50.72                      | 74                 | -23.28         | peak             | Vertical   |
| 2390               | 50.36                   | 1.05           | 51.41                      | 74                 | -22.59         | peak             | Horizontal |
| 2483.5             | 49.28                   | 1.29           | 50.57                      | 74                 | -23.43         | peak             | Vertical   |
| 2483.5             | 50.74                   | 1.29           | 52.03                      | 74                 | -21.97         | peak             | Horizontal |

Note: Test method to see chapter 3.2 . When PK value is lower than the Average value limit, average not record.



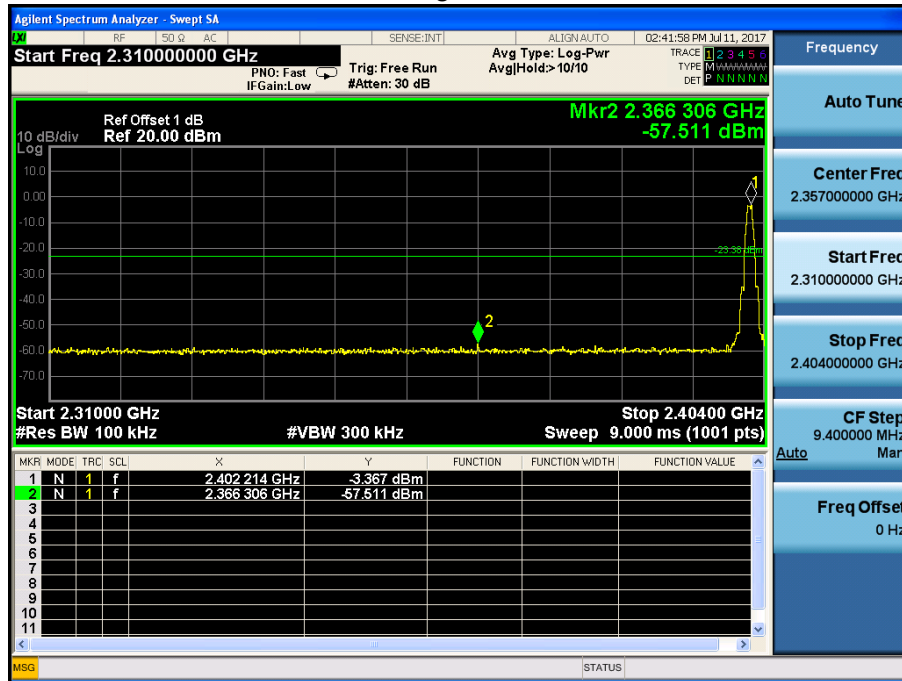
# Shenzhen Asia Test Technology Co., Ltd.

Report No. ATT2017SZ701127F

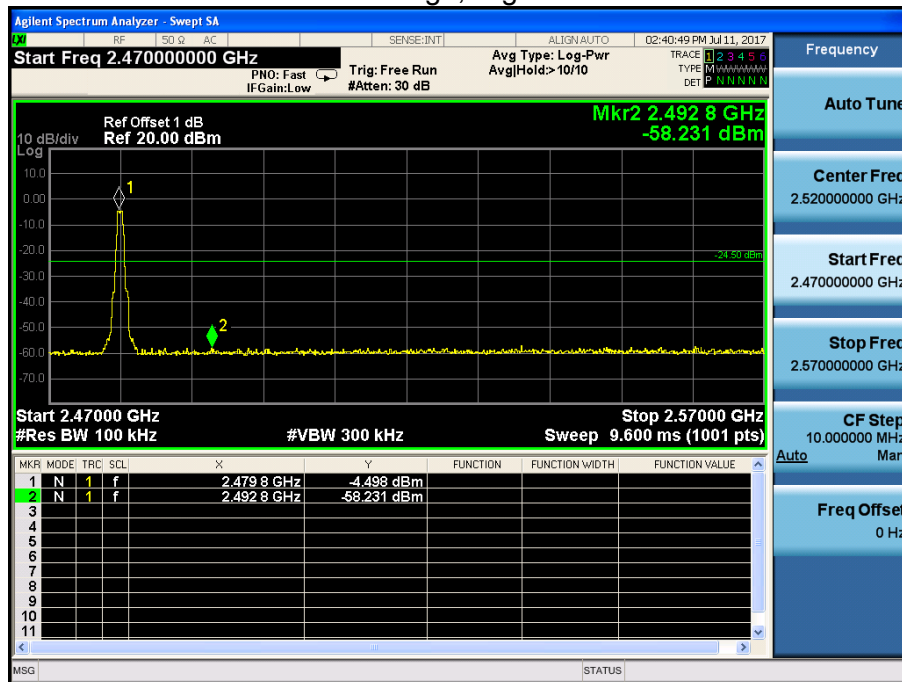
- Page 39 of 48 -

## CONDUCTED BANDEDGE TEST RESULTS

### Band Edge, Left Side



### Band Edge, Right Side





## Shenzhen Asia Test Technology Co., Ltd.

Report No. ATT2017SZ701127F

- Page 40 of 48 -

### . ANTENNA REQUIREMENT

#### 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.

#### EUT ANTENNA

The EUT antenna is Internal antenna with 0dBi gain, it conform to FCC part rule.



## Shenzhen Asia Test Technology Co., Ltd.

Report No. ATT2017SZ701127F

- Page 41 of 48 -

### . EUT TEST PHOTO

#### Radiated Measurement Photos

30-1000MHz



Above 1GHz



# Shenzhen Asia Test Technology Co., Ltd.

Report No. ATT2017SZ701127F

- Page 42 of 48 -

## Conducted Measurement Photos

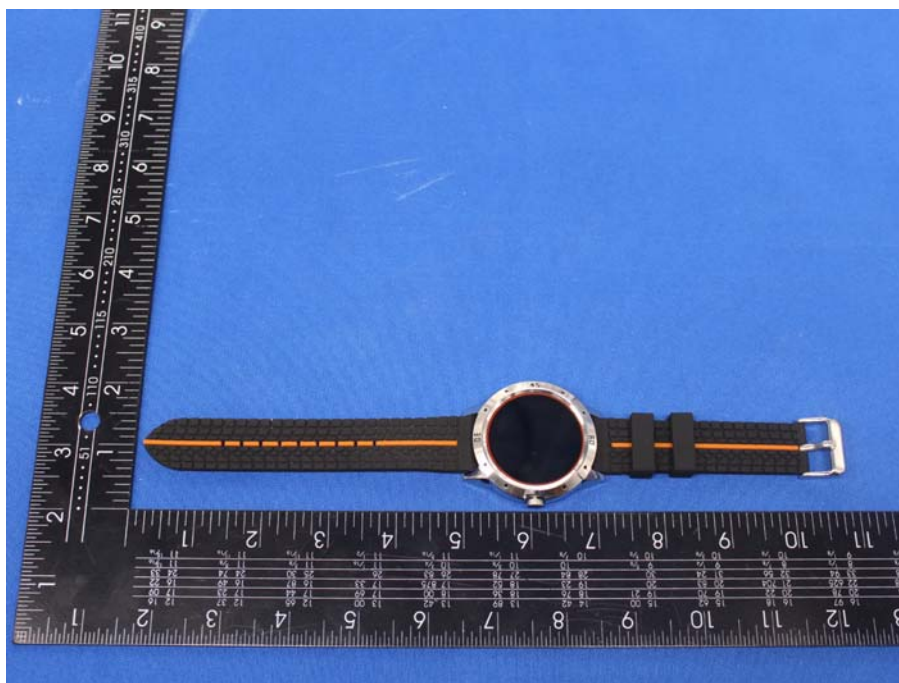




# Shenzhen Asia Test Technology Co., Ltd.

Report No. ATT2017SZ701127F  
- Page 43 of 48 -

External photo





# Shenzhen Asia Test Technology Co., Ltd.

Report No. ATT2017SZ701127F

- Page 44 of 48 -





## Shenzhen Asia Test Technology Co., Ltd.

Report No. ATT2017SZ701127F  
- Page 45 of 48 -



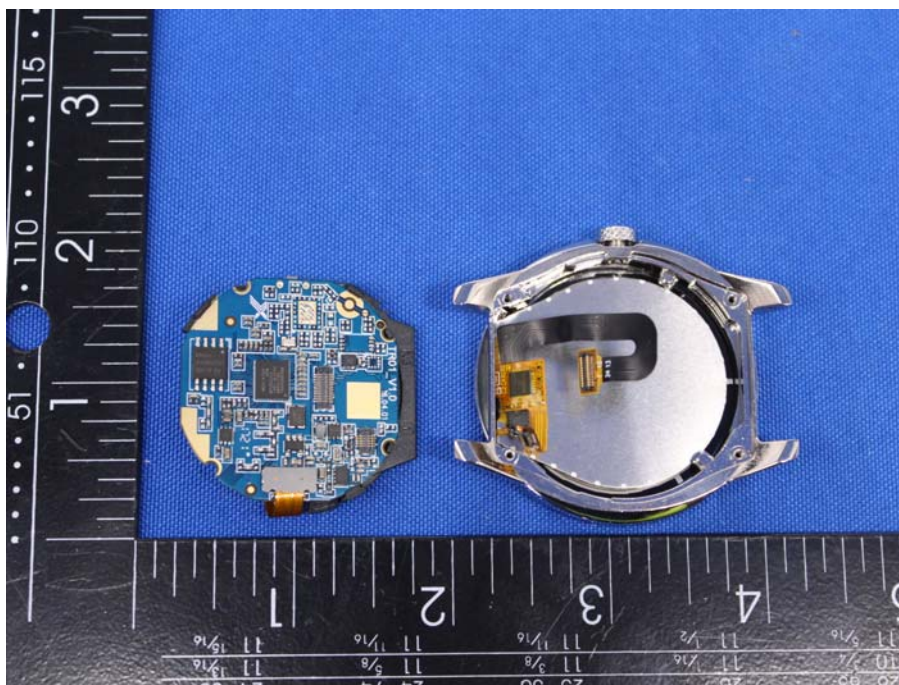
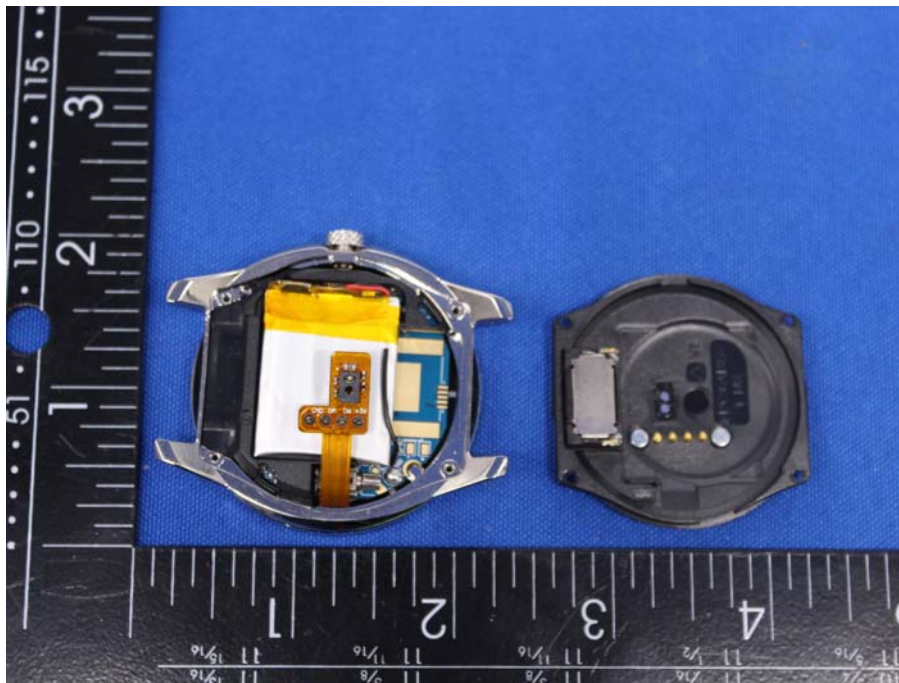


## Shenzhen Asia Test Technology Co., Ltd.

Report No. ATT2017SZ701127F

- Page 46 of 48 -

Internal photo

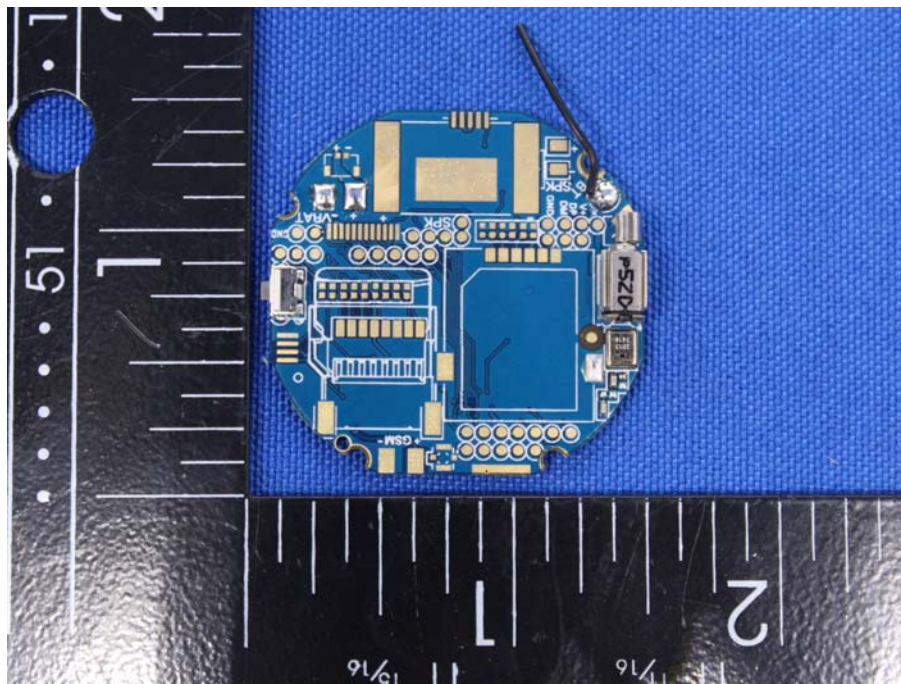
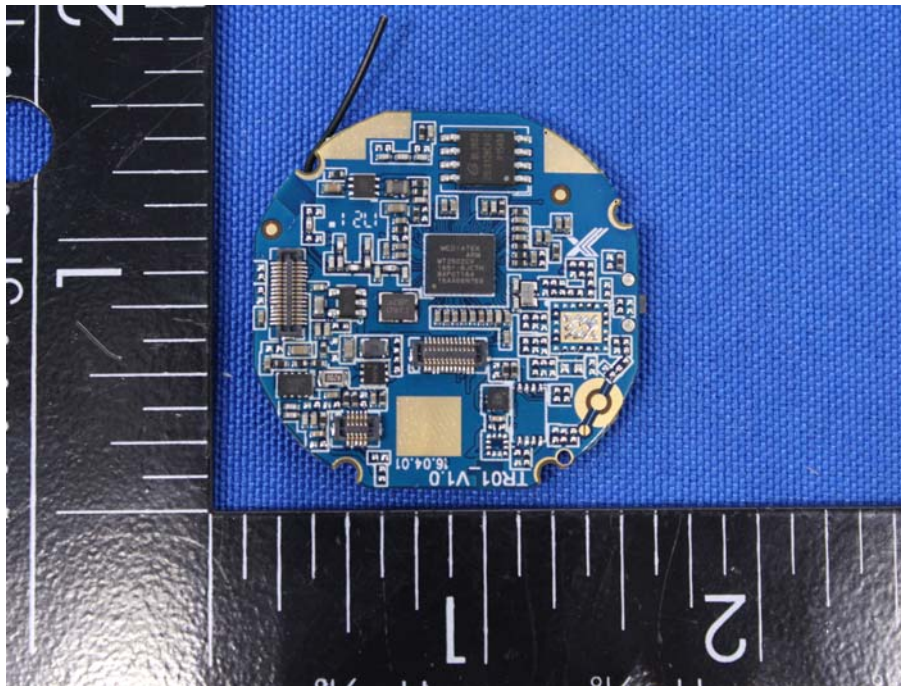




# Shenzhen Asia Test Technology Co., Ltd.

Report No. ATT2017SZ701127F

- Page 47 of 48 -

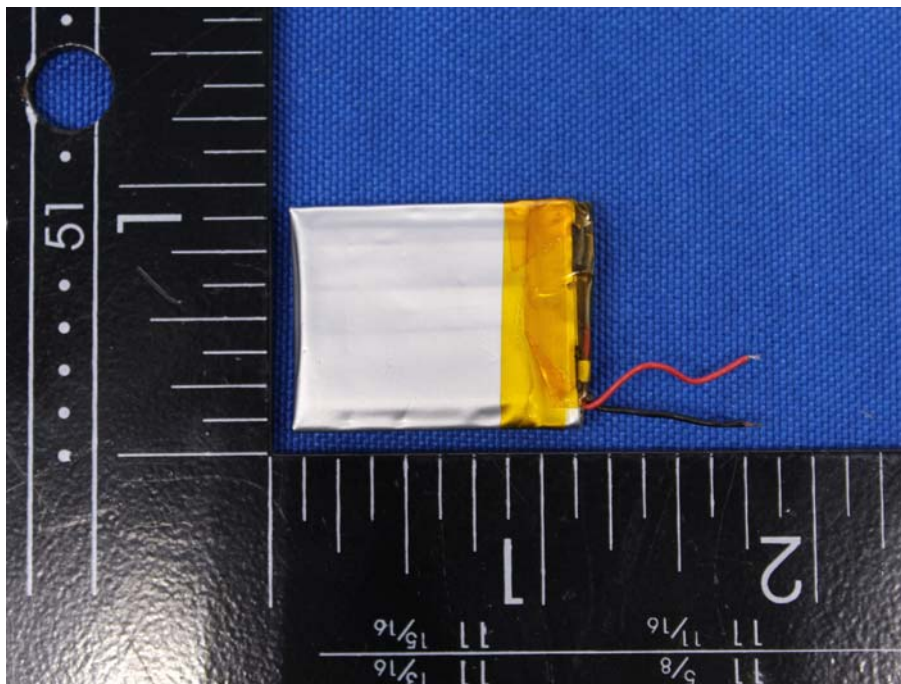
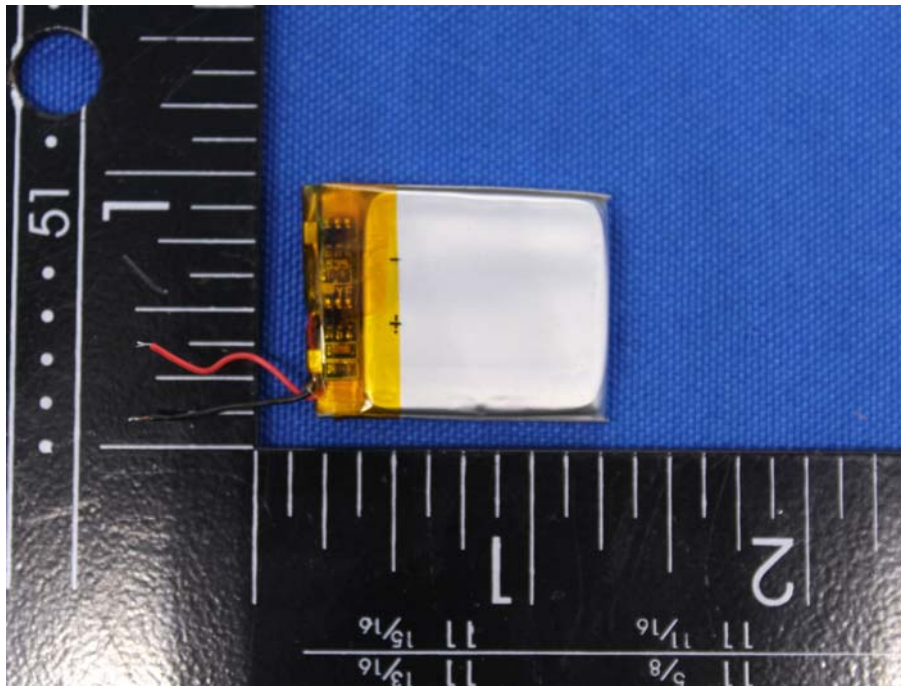




# Shenzhen Asia Test Technology Co., Ltd.

Report No. ATT2017SZ701127F

- Page 48 of 48 -



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