



# TEST REPORT

## FCC ID: QTG-ZKPIB

Product Name: Bluetooth Keyboard  
Trademark: ZAGG  
Model Number: ZKB102FCB17 (Slim Book Go 10.2)  
ZKB102RMB17(Rugged Messenger 10.2)  
Prepared For: ZAGG Inc.  
Address: 910 West Legacy Center Way, Midvale Utah United States, 84047  
Manufacturer: ZAGG Inc.  
Address: 910 West Legacy Center Way, Midvale Utah United States, 84047  
Prepared By: Shenzhen BCTC Testing Co., Ltd.  
Address: BCTC Building & 1-2F, East of B Building, Pengzhou Industrial, Fuyuan 1st Road, Qiaotou Community, Fuyong Street, Bao'an District, Shenzhen, China  
Sample Received Date: Nov. 29, 2019  
Sample tested Date: Nov. 29, 2019 to Dec. 09, 2019  
Issue Date: Dec. 09, 2019  
Report No.: BCTC1912000006E  
Test Standards: FCC Part15.247  
ANSI C63.10-2013  
Test Results: PASS  
Remark: This is Bluetooth BLE radio test report.

Compiled by:

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Reviewed by:

Eric Yang

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Approved by:



Zero Zhou/Manager

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(Note: N/A means not applicable)



## 1. VERSION

| Report No.      | Issue Date    | Description | Approved |
|-----------------|---------------|-------------|----------|
| BCTC1912000006E | Dec. 09, 2019 | Original    | Valid    |
|                 |               |             |          |

## 2. TEST SUMMARY

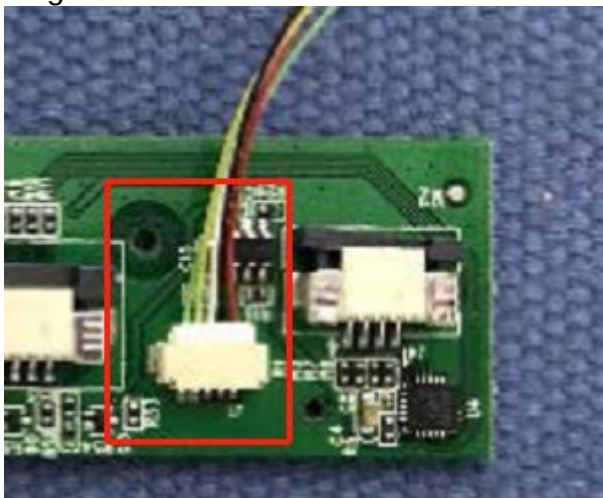
The Product has been tested according to the following specifications:

| No. | Test Parameter      | Clause No | Results |
|-----|---------------------|-----------|---------|
| 1   | Radiated Emissions  | 15.209    | PASS    |
| 2   | Conducted emissions | 15.207    | PASS    |

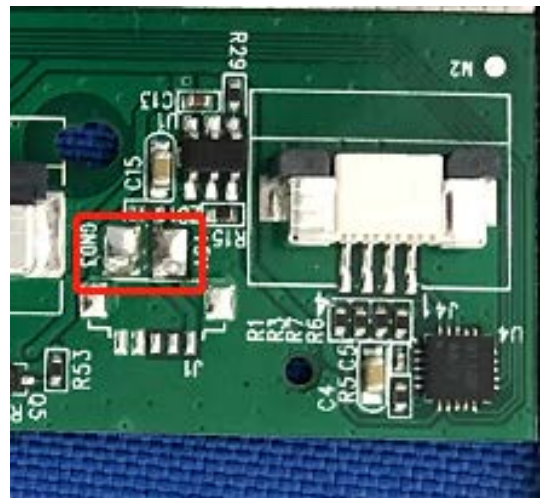
Remark: Based on the following changes in the product, the RF chip remains unchanged. So the report is only updated Conducted emissions and Radiated Emissions for the original report (CQASZ20190400219E-01) 。

Changes : 1. Appearance changes, material is unchanged.  
2.The USB interface Change: The original product is 4 pin interface,  
The new product is 2 pin interface.

Original:



new





### 3. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the Product as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of  $k=2$ .

| No. | Item                                | Uncertainty |
|-----|-------------------------------------|-------------|
| 1   | humidity uncertainty                | U=5.3%      |
| 2   | Temperature uncertainty             | U=0.59°C    |
| 3   | Conducted Emission (150kHz-30MHz)   | U=3.2dB     |
| 4   | Radiated disturbance(30MHz-1000MHz) | U=4.8dB     |
| 5   | Radiated disturbance(1GHz-6GHz)     | U=4.9dB     |
| 6   | Radiated disturbance(1GHz-18GHz)    | U=5.0dB     |

## 4. PRODUCT INFORMATION AND TEST SETUP

### 4.1 Product Information

|                       |                                                                                                      |
|-----------------------|------------------------------------------------------------------------------------------------------|
| Model(s):             | ZKB102FCB17 (Slim Book Go 10.2)<br>ZKB102RMB17(Rugged Messenger 10.2)                                |
| Model Description:    | All the model are the same circuit and RF module, except model names and appearance. See the Note 1. |
| Bluetooth Version:    | BT 5.0                                                                                               |
| Hardware Version:     | V1.0                                                                                                 |
| Software Version:     | V1.0                                                                                                 |
| Operation Frequency:  | Bluetooth: 2402-2480MHz                                                                              |
| Max. RF output power: | Bluetooth :5.57dBm                                                                                   |
| Type of Modulation:   | Bluetooth: GFSK                                                                                      |
| Antenna installation: | Bluetooth: PCB antenna                                                                               |
| Antenna Gain:         | Bluetooth:1.87dBi                                                                                    |
| Ratings:              | DC 5V from Adapter<br>DC 3.7V from Battery                                                           |

Note 1:

Model: ZKB102RMB17(Rugged Messenger 10.2)

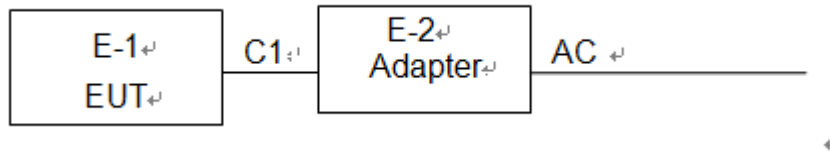




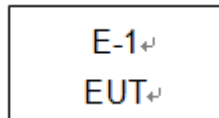
## 4.2 Test Setup Configuration

See test photographs attached in *EUT TEST SETUP PHOTOGRAPHS* for the actual connections between Product and support equipment.

Conducted Emission:



Radiated Spurious Emission



## 4.3 Support Equipment

| No. | Device Type | Brand | Model    | Series No. | Data Cable | Power Cord |
|-----|-------------|-------|----------|------------|------------|------------|
| E-1 | Bluetooth   |       | ZKB102FC | N/A        | EUT        | E-1        |
| E-2 | Adapter     | N/A   | BCTC001  | N/A        | Auxiliary  | E-2        |

| Item | Shielded Type | Ferrite Core | Length | Note                |
|------|---------------|--------------|--------|---------------------|
| C-1  | NO            | NO           | 0.3M   | DC cable unshielded |

### Notes:

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

## 4.4 Channel List

| Channel List |                 |         |                 |         |                 |
|--------------|-----------------|---------|-----------------|---------|-----------------|
| Channel      | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) |
| 01           | 2402            | 11      | 2422            | 21      | 2442            |
| 02           | 2404            | 12      | 2424            | 22      | 2444            |
| 03           | 2406            | 13      | 2426            | 23      | 2446            |
| ~            | ~               | ~       | ~               | ~       | ~               |
| 09           | 2418            | 19      | 2438            | 39      | 2478            |
| 10           | 2420            | 20      | 2440            | 40      | 2480            |



#### 4.5 Test Mode

| Test mode | Test mode                                           | Low channel | Middle channel | High channel |
|-----------|-----------------------------------------------------|-------------|----------------|--------------|
| 1         | Link mode(conducted emission and Radiated emission) |             |                |              |

## 5. TEST FACILITY AND TEST INSTRUMENT USED

### 5.1 Test Facility

All measurement facilities used to collect the measurement data are located at BCTC Building & 1-2F, East of B Building, Pengzhou Industrial, Fuyuan 1st Road, Qiaotou Community, Fuyong Street, Bao'an District, Shenzhen, China. The site and apparatus are constructed in conformance with the requirements of ANSI C63.4 and CISPR 16-1-1 other equivalent standards.

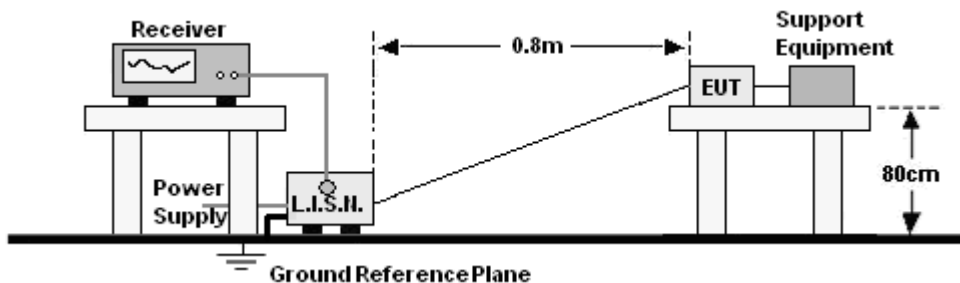
### 5.2 Test Instrument Used

| Conducted emissions Test |              |          |                |               |              |
|--------------------------|--------------|----------|----------------|---------------|--------------|
| Equipment                | Manufacturer | Model#   | Serial#        | Last Cal.     | Next Cal.    |
| Receiver                 | R&S          | ESR3     | 102075         | Jun. 13, 2019 | Jun.12, 2020 |
| LISN                     | R&S          | ENV216   | 101375         | Jun. 13, 2019 | Jun.12, 2020 |
| ISN                      | HPX          | ISN T800 | S1509001       | Jun. 13, 2019 | Jun.12, 2020 |
| Software                 | Frad         | EZ-EMC   | EMC-CON<br>3A1 | \             | \            |

| Radiated emissions Test (966 chamber) |                 |               |                  |               |               |
|---------------------------------------|-----------------|---------------|------------------|---------------|---------------|
| Equipment                             | Manufacturer    | Model#        | Serial#          | Last Cal.     | Next Cal.     |
| 966 chamber                           | ChengYu         | 966 Room      | 966              | Jun. 19, 2018 | Jun. 18, 2021 |
| Receiver                              | R&S             | ESR3          | 102075           | Jun. 13, 2019 | Jun. 12, 2020 |
| Receiver                              | R&S             | ESRP          | 101154           | Jun. 13, 2019 | Jun. 12, 2020 |
| Amplifier                             | Schwarzbeck     | BBV9718       | 9718-309         | Jun. 25, 2019 | Jun. 24, 2020 |
| Amplifier                             | Schwarzbeck     | BBV9744       | 9744-0037        | Jun. 25, 2019 | Jun. 24, 2020 |
| TRILOG<br>Broadband<br>Antenna        | schwarzbeck     | VULB 9163     | VULB9163-<br>942 | Jun. 22, 2019 | Jun. 21, 2020 |
| Horn<br>Antenna                       | SCHWARZBEC<br>K | BBHA9120<br>D | 1201             | Jun. 22, 2019 | Jun. 21, 2020 |
| Software                              | Frad            | EZ-EMC        | FA-03A2<br>RE    | \             | \             |

## 6. CONDUCTED EMISSIONS

### 6.1 Block Diagram Of Test Setup



### 6.2 Limit

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

Notes:  
1. \*Decreasing linearly with logarithm of frequency.  
2. The lower limit shall apply at the transition frequencies.

### 6.3 Test procedure

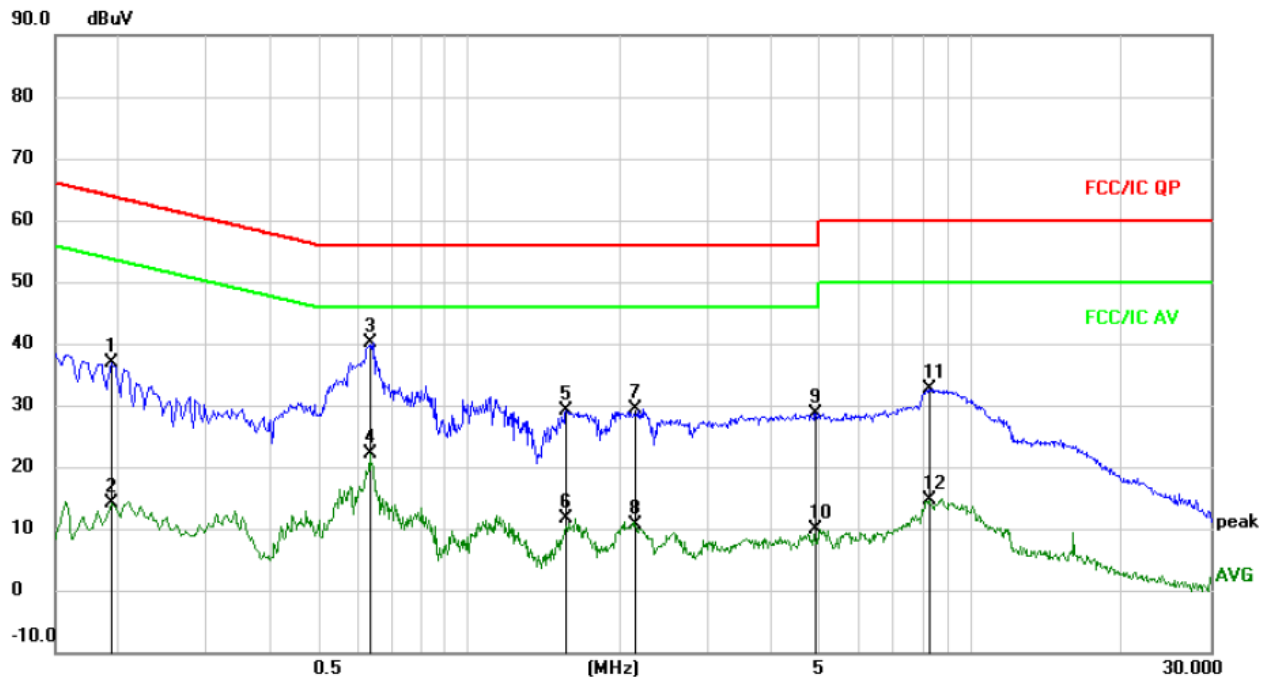
| Receiver Parameters | Setting  |
|---------------------|----------|
| Attenuation         | 10 dB    |
| Start Frequency     | 0.15 MHz |
| Stop Frequency      | 30 MHz   |
| IF Bandwidth        | 9 kHz    |

- The Product was placed on a nonconductive table 0.8 m above the horizontal ground reference plane, and 0.4 m from the vertical ground reference plane, and connected to the main through Line Impedance Stability Network (L.I.S.N).
- The RBW of the receiver was set at 9 kHz in 150 kHz ~ 30MHz with Peak and AVG detector in Max Hold mode. Run the receiver's pre-scan to record the maximum disturbance generated from Product in all power lines in the full band.
- For each frequency whose maximum record was higher or close to limit, measure its QP and AVG values and record.



## 6.4 Test Result

|                |                                          |                     |        |
|----------------|------------------------------------------|---------------------|--------|
| Temperature :  | 25 °C                                    | Relative Humidity : | 54%    |
| Pressure :     | 1010hPa                                  | Phase :             | L      |
| Test Voltage : | DC 5V From Adapter Input<br>AC 120V/60Hz | Test Mode :         | Mode 1 |



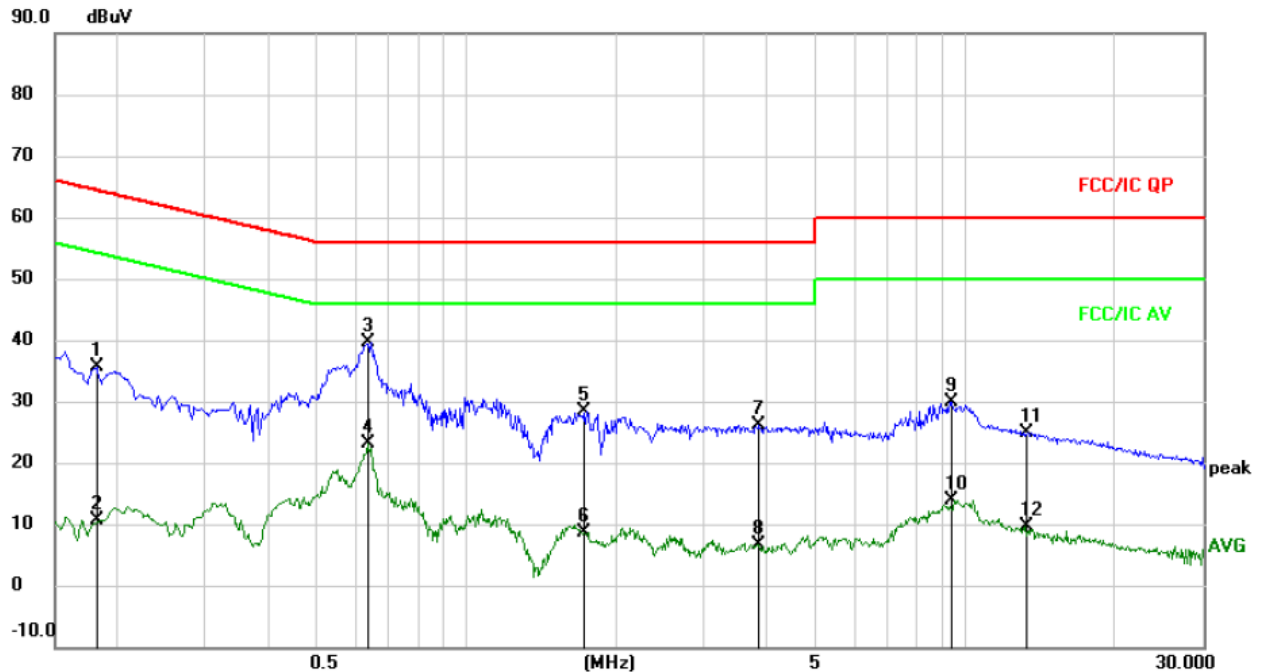
Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.

| No. Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor | Measure-<br>ment<br>dBuV | Limit<br>dBuV | Over<br>dB | Detector | Comment |
|---------|--------------|--------------------------|-------------------|--------------------------|---------------|------------|----------|---------|
| 1       | 0.1940       | 27.38                    | 9.47              | 36.85                    | 63.86         | -27.01     | QP       |         |
| 2       | 0.1940       | 4.66                     | 9.47              | 14.13                    | 53.86         | -39.73     | AVG      |         |
| 3 *     | 0.6340       | 30.30                    | 9.88              | 40.18                    | 56.00         | -15.82     | QP       |         |
| 4       | 0.6340       | 12.23                    | 9.88              | 22.11                    | 46.00         | -23.89     | AVG      |         |
| 5       | 1.5660       | 19.44                    | 9.58              | 29.02                    | 56.00         | -26.98     | QP       |         |
| 6       | 1.5660       | 2.06                     | 9.58              | 11.64                    | 46.00         | -34.36     | AVG      |         |
| 7       | 2.1500       | 19.88                    | 9.60              | 29.48                    | 56.00         | -26.52     | QP       |         |
| 8       | 2.1500       | 0.92                     | 9.60              | 10.52                    | 46.00         | -35.48     | AVG      |         |
| 9       | 4.9139       | 18.95                    | 9.79              | 28.74                    | 56.00         | -27.26     | QP       |         |
| 10      | 4.9139       | 0.12                     | 9.79              | 9.91                     | 46.00         | -36.09     | AVG      |         |
| 11      | 8.2659       | 23.03                    | 9.71              | 32.74                    | 60.00         | -27.26     | QP       |         |
| 12      | 8.2659       | 4.89                     | 9.71              | 14.60                    | 50.00         | -35.40     | AVG      |         |



|                |                                          |                     |        |
|----------------|------------------------------------------|---------------------|--------|
| Temperature :  | 25 °C                                    | Relative Humidity : | 54%    |
| Pressure :     | 1010hPa                                  | Phase :             | N      |
| Test Voltage : | DC 5V From Adapter Input<br>AC 120V/60Hz | Test Mode :         | Mode 1 |



Remark:

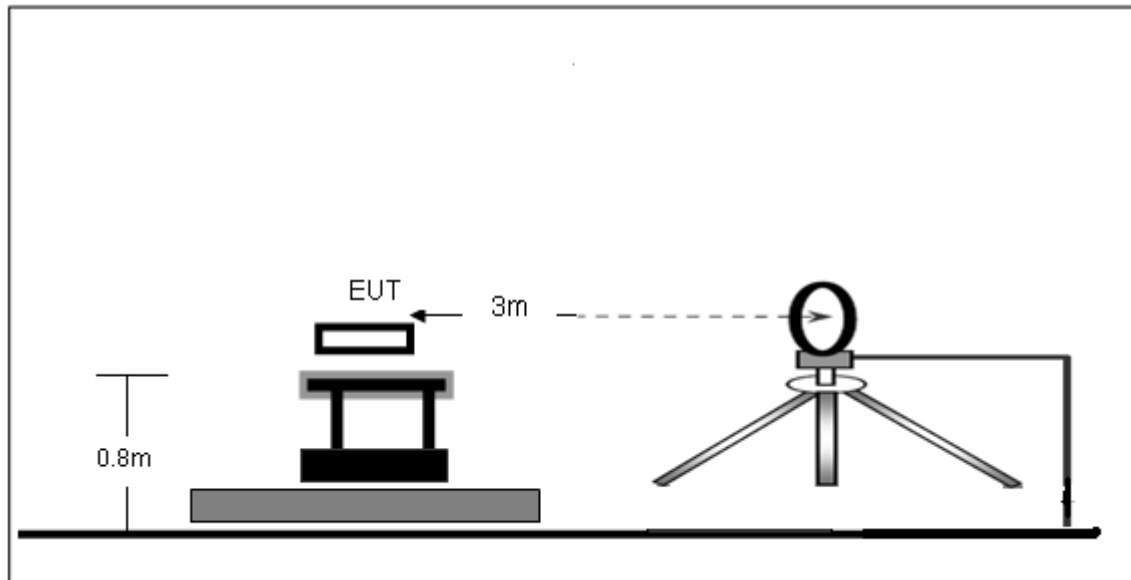
1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.

| No. | Mk. | Freq.   | Reading Level | Correct Factor | Measurement | Limit | Over   |          |         |
|-----|-----|---------|---------------|----------------|-------------|-------|--------|----------|---------|
|     |     | MHz     | dBuV          |                | dBuV        | dBuV  | dB     | Detector | Comment |
| 1   |     | 0.1819  | 26.05         | 9.48           | 35.53       | 64.40 | -28.87 | QP       |         |
| 2   |     | 0.1819  | 1.22          | 9.48           | 10.70       | 54.40 | -43.70 | AVG      |         |
| 3   | *   | 0.6340  | 29.82         | 9.88           | 39.70       | 56.00 | -16.30 | QP       |         |
| 4   |     | 0.6340  | 13.29         | 9.88           | 23.17       | 46.00 | -22.83 | AVG      |         |
| 5   |     | 1.7300  | 18.76         | 9.58           | 28.34       | 56.00 | -27.66 | QP       |         |
| 6   |     | 1.7300  | -0.84         | 9.58           | 8.74        | 46.00 | -37.26 | AVG      |         |
| 7   |     | 3.8460  | 16.47         | 9.72           | 26.19       | 56.00 | -29.81 | QP       |         |
| 8   |     | 3.8460  | -2.98         | 9.72           | 6.74        | 46.00 | -39.26 | AVG      |         |
| 9   |     | 9.3779  | 20.28         | 9.70           | 29.98       | 60.00 | -30.02 | QP       |         |
| 10  |     | 9.3779  | 4.28          | 9.70           | 13.98       | 50.00 | -36.02 | AVG      |         |
| 11  |     | 13.2259 | 15.22         | 9.70           | 24.92       | 60.00 | -35.08 | QP       |         |
| 12  |     | 13.2259 | -0.19         | 9.70           | 9.51        | 50.00 | -40.49 | AVG      |         |

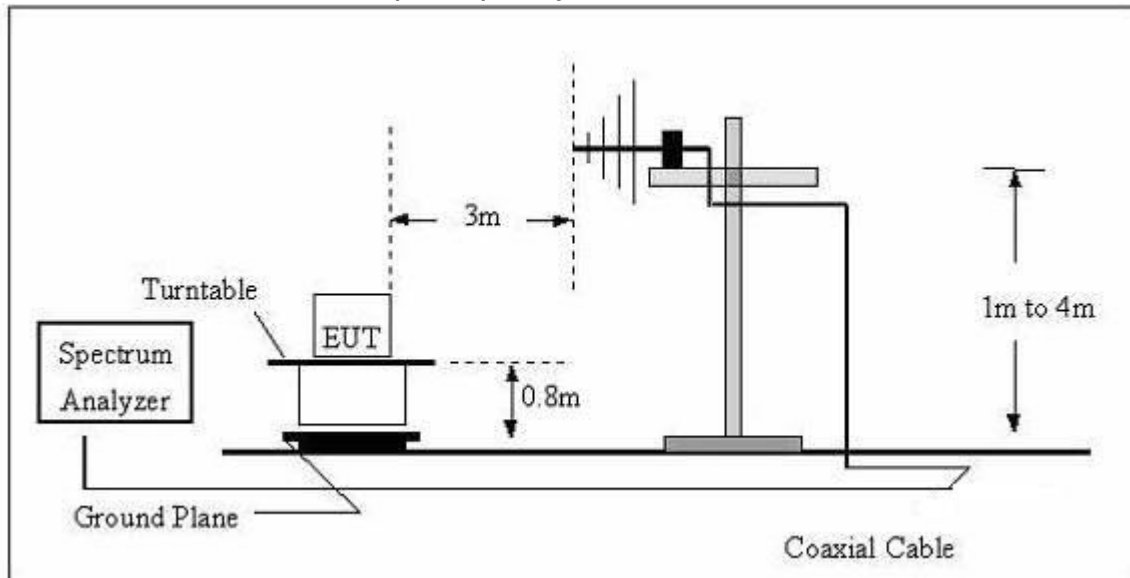
## 7. RADIATED EMISSIONS

### 7.1 Block Diagram Of Test Setup

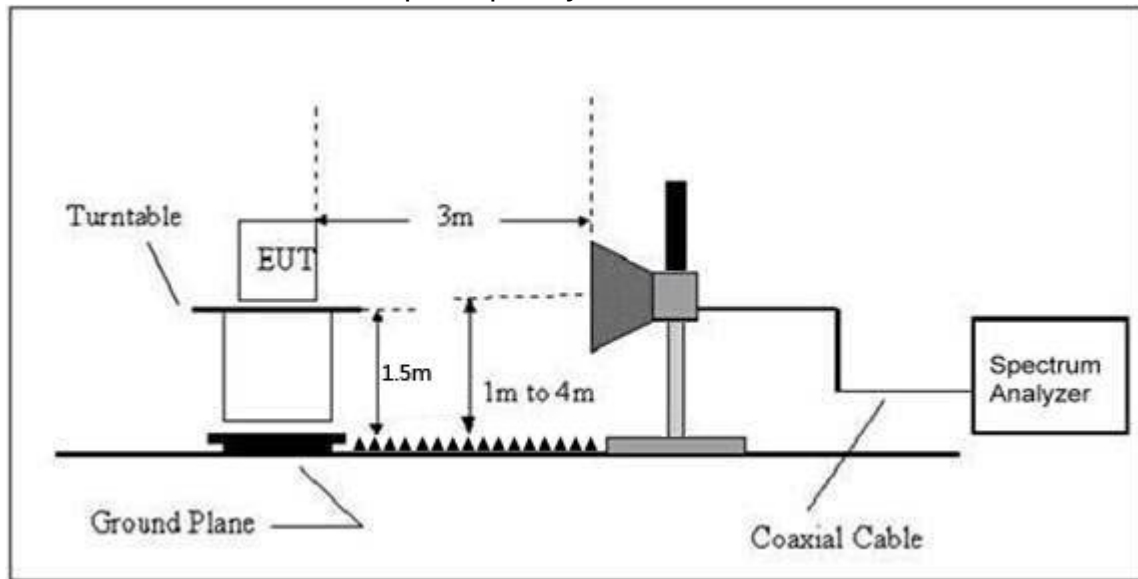
#### (A) Radiated Emission Test-Up Frequency Below 30MHz



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



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



## 7.2 Limit

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), then the 15.209(a) limit in the table below has to be followed.

| Frequency<br>(MHz) | Field Strength<br>uV/m | Distance<br>(m) | Field Strength Limit at 3m Distance |                                       |
|--------------------|------------------------|-----------------|-------------------------------------|---------------------------------------|
|                    |                        |                 | uV/m                                | dBuV/m                                |
| 0.009 ~ 0.490      | $2400/F(\text{kHz})$   | 300             | $10000 * 2400/F(\text{kHz})$        | $20\log^{(2400/F(\text{kHz}))} + 80$  |
| 0.490 ~ 1.705      | $24000/F(\text{kHz})$  | 30              | $100 * 24000/F(\text{kHz})$         | $20\log^{(24000/F(\text{kHz}))} + 40$ |
| 1.705 ~ 30         | 30                     | 30              | $100 * 30$                          | $20\log^{(30)} + 40$                  |
| 30 ~ 88            | 100                    | 3               | 100                                 | $20\log^{(100)}$                      |
| 88 ~ 216           | 150                    | 3               | 150                                 | $20\log^{(150)}$                      |
| 216 ~ 960          | 200                    | 3               | 200                                 | $20\log^{(200)}$                      |
| Above 960          | 500                    | 3               | 500                                 | $20\log^{(500)}$                      |

## 7.3 Test procedure

| Receiver Parameter | Setting           |
|--------------------|-------------------|
| Attenuation        | Auto              |
| 9kHz~150kHz        | RBW 200Hz for QP  |
| 150kHz~30MHz       | RBW 9kHz for QP   |
| 30MHz~1000MHz      | RBW 120kHz for QP |

| Spectrum Parameter | Setting                                                            |
|--------------------|--------------------------------------------------------------------|
| 1-25GHz            | RBW 1 MHz /VBW 1 MHz for Peak,<br>RBW 1 MHz / VBW 10Hz for Average |

Below 1GHz test procedure as below:

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

Above 1GHz test procedure as below:

- g. Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber and change form table 0.8 metre to 1.5 metre( Above 18GHz the distance is 1 meter and table is 1.5 metre).
- h. Test the EUT in the lowest channel ,the middle channel ,the Highest channel.

Note:

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

Above 1GHz test procedure as below:

- a.The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b.The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c.The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.



d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.

e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

g. Test the EUT in the lowest channel, the Highest channel.

Note:

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



## 7.4 Test Result

Below 30MHz

|              |         |                    |         |
|--------------|---------|--------------------|---------|
| Temperature: | 26℃     | Relative Humidity: | 24%     |
| Pressure:    | 101 hPa | Test Voltage :     | DC 3.7V |
| Test Mode :  | Mode 1  | Polarization :     | --      |

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

### Note:

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

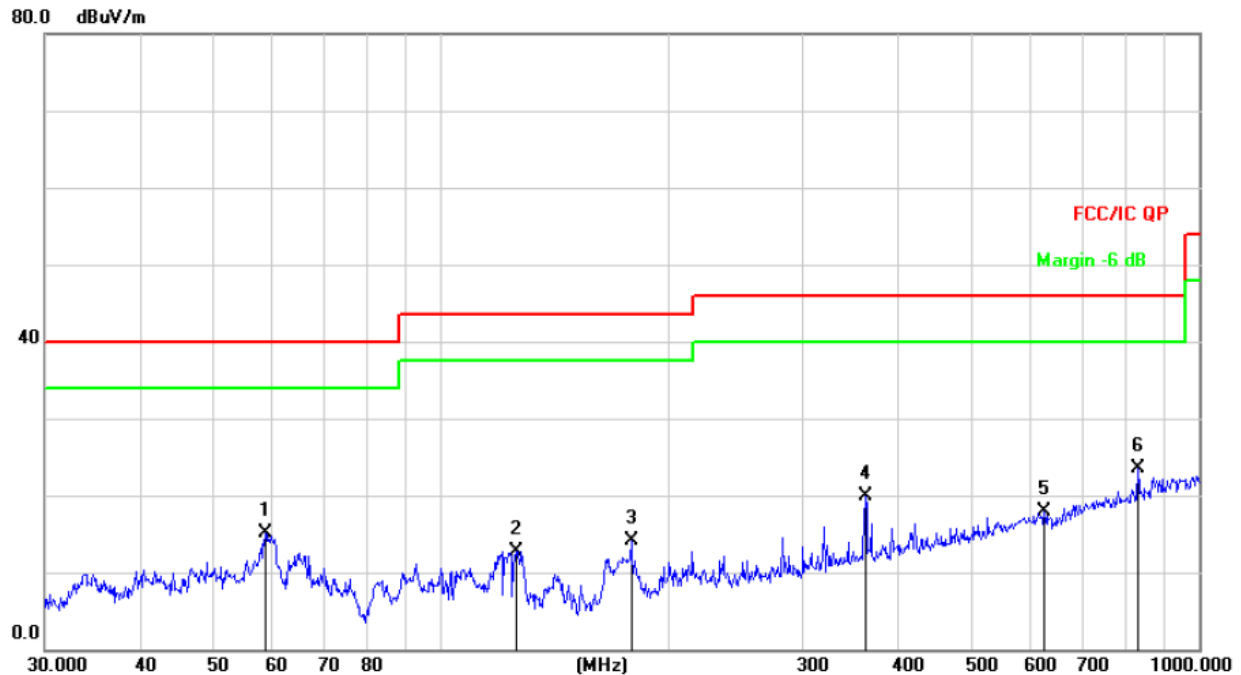
Distance extrapolation factor =  $40 \log (\text{specific distance/test distance})$ (dB);

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



Between 30MHz – 1GHz

|              |         |                    |            |
|--------------|---------|--------------------|------------|
| Temperature: | 26°C    | Relative Humidity: | 54%        |
| Pressure:    | 101 hPa | Test Voltage :     | DC 3.7V    |
| Test Mode :  | Mode 1  | Polarization :     | Horizontal |



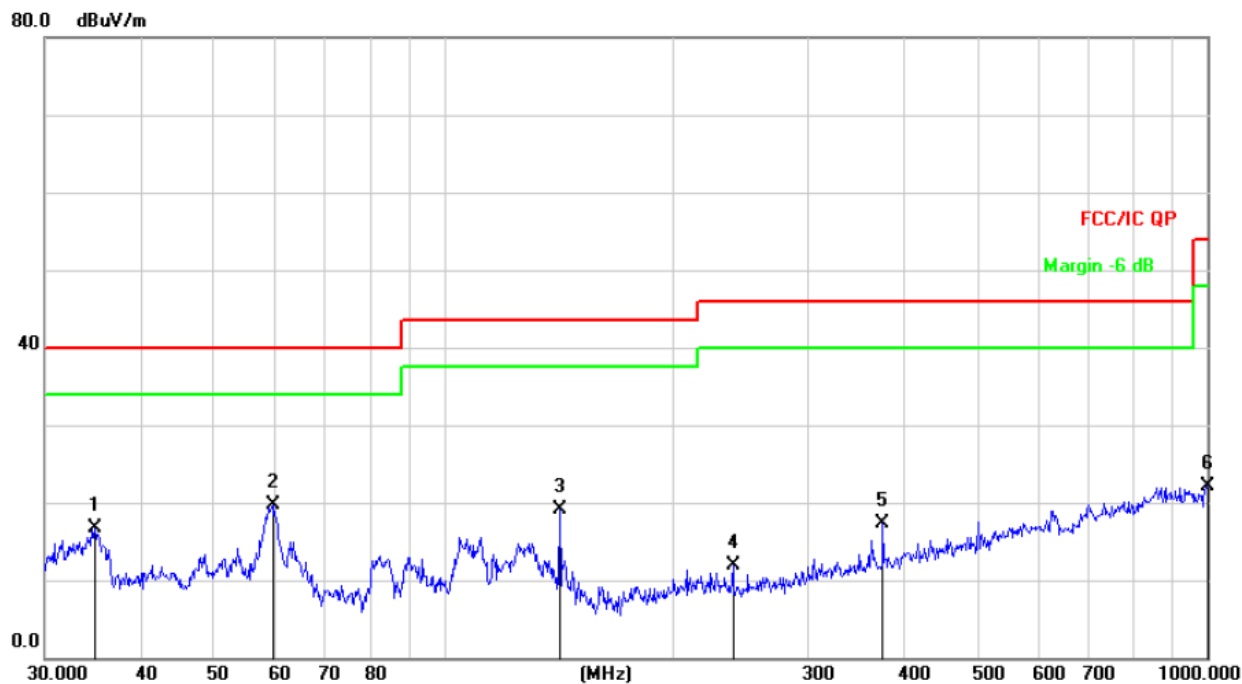
Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit | Over        |
|-----|-----|----------|---------------|----------------|-------------|-------|-------------|
|     |     | MHz      | dBuV          | dB             | dBuV/m      | dB/m  | dB Detector |
| 1   |     | 58.6126  | 30.87         | -15.76         | 15.11       | 40.00 | -24.89 QP   |
| 2   |     | 125.4457 | 30.70         | -17.92         | 12.78       | 43.50 | -30.72 QP   |
| 3   |     | 178.1327 | 31.80         | -17.70         | 14.10       | 43.50 | -29.40 QP   |
| 4   |     | 362.9844 | 31.81         | -11.93         | 19.88       | 46.00 | -26.12 QP   |
| 5   |     | 625.0780 | 24.48         | -6.67          | 17.81       | 46.00 | -28.19 QP   |
| 6   | *   | 830.4002 | 26.41         | -2.96          | 23.45       | 46.00 | -22.55 QP   |



|              |         |                    |          |
|--------------|---------|--------------------|----------|
| Temperature: | 26°C    | Relative Humidity: | 54%      |
| Pressure:    | 101 hPa | Test Voltage :     | DC 3.7V  |
| Test Mode :  | Mode 1  | Polarization :     | Vertical |



Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit | Over        |
|-----|-----|----------|---------------|----------------|-------------|-------|-------------|
|     |     | MHz      | dBuV          | dB             | dBuV/m      | dB/m  | dB Detector |
| 1   |     | 34.8823  | 33.00         | -16.37         | 16.63       | 40.00 | -23.37 QP   |
| 2   | *   | 59.6493  | 35.49         | -15.87         | 19.62       | 40.00 | -20.38 QP   |
| 3   |     | 141.8262 | 38.15         | -18.97         | 19.18       | 43.50 | -24.32 QP   |
| 4   |     | 239.1473 | 27.26         | -15.40         | 11.86       | 46.00 | -34.14 QP   |
| 5   |     | 375.9385 | 28.95         | -11.64         | 17.31       | 46.00 | -28.69 QP   |
| 6   |     | 1000.000 | 22.87         | -0.81          | 22.06       | 54.00 | -31.94 QP   |

## 8. EUT PHOTOGRAPHS

EUT Photo 1



EUT Photo 2



EUT Photo 3



EUT Photo 4

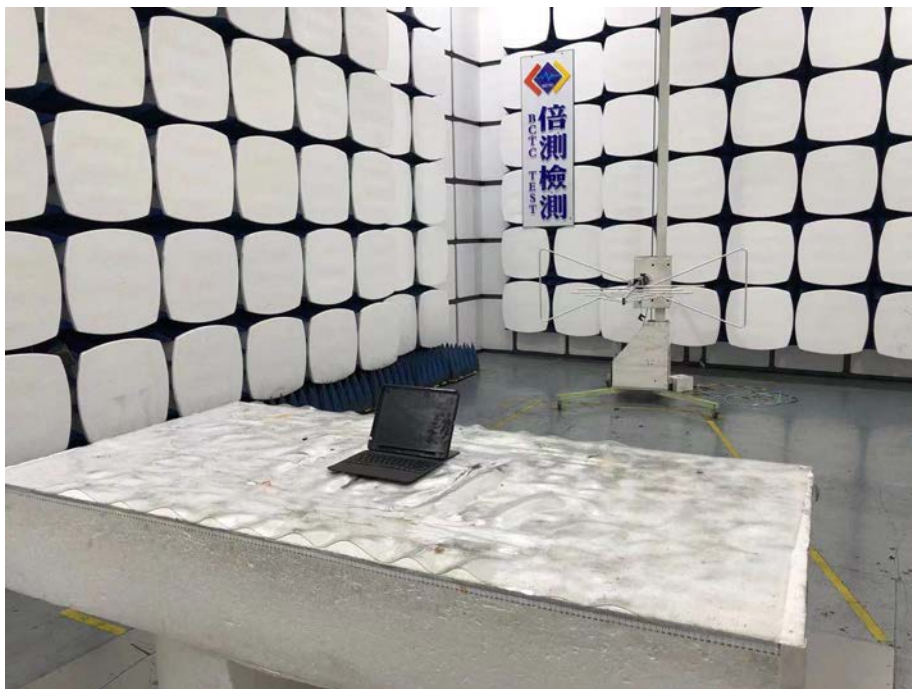


## 9. EUT TEST SETUP PHOTOGRAPHS

### Conducted emissions



### Radiated emission



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