



FCC TEST REPORT

**Test report
On Behalf of
Amcrest Technologies LLC
For
Dual Band FM Transceiver
Model No.: UV-5R V2+, 997-S**

FCC ID:ZZ2UV-5RV2

Prepared for : Amcrest Technologies LLC
16727 Park Row Dr. Houston, TX 77084

Prepared By : Shenzhen HUAKE Testing Technology Co., Ltd.
1F, B2 Building, Junfeng Zhongcheng Zhizao Innovation Park, Fuhai Street, Bao'an District, Shenzhen City, China

Date of Test: Dec. 20, 2018~Feb. 18, 2019

Date of Report: Feb. 19, 2019

Report Number: HK1902190270E



TEST RESULT CERTIFICATION

Applicant's name : Amcrest Technologies LLC
Address..... : 16727 Park Row Dr. Houston, TX 77084
Manufacture's Name..... : PO FUNG ELECTRONIC(HK) INTERNATIOANL GROUP COMPANY
Address..... : 3/F FULOK BLDG 131-133 WING LOK ST SHEUNG WAN, Hong Kong


Product description : Dual Band FM Transceiver
Brand Name : BAOFENG
Mode Name : UV-5R V2+
Serial Name : 997-S


Difference Description : 1, the same PCB board, technical specifications, but the appearance of the plastic case is different.
 2, UV-5R V2+ does not use the "Band" button, 997-S has the "Band" button


Standards : FCC Rules and Regulations Part 15B

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Date of Test :
Date (s) of performance of tests..... : Dec. 20, 2018~Feb. 18, 2019
Date of Issue : Feb. 19, 2019
Test Result..... : **Pass**

Testing Engineer : 
 (Gary Qian)

Technical Manager : 
 (Eden Hu)

Authorized Signatory : 
 (Jason Zhou)



| Revision | Issue Date | Revisions | Revised By |
|----------|---------------|---------------|------------|
| V1.0 | Feb. 19, 2019 | Initial Issue | Jason Zhou |



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1. VERIFICATION OF COMPLIANCE

| | |
|---------------------------------|------------------|
| Hardware Version | 5R-VER28 171023 |
| Software Version | BFS001 |
| Measurement Procedure | ANSI C63.4: 2014 |
| Deviation: | None |
| Condition of Test Sample | Normal |

The test results of this report relate only to the tested sample identified in this report.



2. PRODUCT INFORMATION

The EUT is a Dual Band FM Transceiver designed for voice communication. It is designed by way of utilizing the F3E modulation achieves the system operating.

A major technical description of EUT is described as following:

| | |
|----------------------------|--|
| Communication Type | Voice / Tone only |
| Modulation | FM |
| RX Frequency Range | Rx: 136MHz-174MHz, 400MHz-520MHz |
| Emission Type | F3E |
| Antenna Designation | Detachable |
| Antenna Gain | 2.15dBi |
| Power Supply | DC 7.4V 1800mAh, charging with DC 8.4V. |
| Charger Parameter | INPUT:DC 10V 0.5A OUTPUT:DC 8.4V 0.4A |
| Adapter Parameter | AC:100-240V 50/60Hz 0.2A Output: 10V 0.5A |

I/O Port Information (Applicable Not Applicable)

| I/O Port of EUT | | | |
|----------------------|------|-------------------|-------------|
| I/O Port Type | Q'TY | Cable | Tested with |
| DC Input Port | 1 | 1.14m, Unshielded | 1 |
| Antenna Connect Port | 1 | 0 | 1 |



3. IDENTIFICATION OF THE RESPONSIBLE TESTING LOCATION

| | |
|--|---|
| Site | Shenzhen HUAKE Testing Technology Co., Ltd. |
| Location | 1F, B2 Building, Junfeng Zhongcheng Zhizao Innovation Park, Fuhai Street, Bao'an District, Shenzhen City, China |
| Designation Number | CN1229 |
| Test Firm Registration Number : 616276 | |

List Of Test Equipment:

| Conducted Emission Shielding Room Test Site (744) | | | | | |
|---|--------------|-----------------|---------------|---------------|---------------|
| Equipment | Manufacturer | Model | Serial Number | Cal. Date | Cal. Due |
| Receiver | R&S | ESCI 7 | HKE-010 | Dec. 29, 2017 | Dec. 28, 2018 |
| Receiver | R&S | ESCI 7 | HKE-010 | Dec. 27, 2018 | Dec. 26, 2019 |
| LISN | R&S | ENV216 | HKE-002 | Dec. 29, 2017 | Dec. 28, 2018 |
| LISN | R&S | ENV216 | HKE-002 | Dec. 27, 2018 | Dec. 26, 2019 |
| Conducted test software | Tonscend | TS+ Rev 2.5.0.0 | HKE-081 | N/A | N/A |

TEST EQUIPMENT OF RADIATED EMISSION TEST

| Equipment | Manufacturer | Model | S/N | Cal. Date | Cal. Due |
|---------------------------|--------------|-----------|----------------|---------------|---------------|
| Broadband antenna | Schwarzbeck | VULB 9163 | HKE-012 | Dec. 29, 2017 | Dec. 28, 2018 |
| Broadband antenna | Schwarzbeck | VULB 9163 | HKE-012 | Dec. 27, 2018 | Dec. 26, 2019 |
| Receiver | R&S | ESCI 7 | HKE-010 | Dec. 29, 2017 | Dec. 28, 2018 |
| Receiver | R&S | ESCI 7 | HKE-010 | Dec. 27, 2018 | Dec. 26, 2019 |
| Preamplifier | Schwarzbeck | BBV 9743 | HKE-006 | Dec. 29, 2017 | Dec. 28, 2018 |
| Preamplifier | Schwarzbeck | BBV 9743 | HKE-006 | Dec. 27, 2018 | Dec. 26, 2019 |
| Position controller | Taiwan MF | MF7802 | HKE-011 | Dec. 29, 2017 | Dec. 28, 2018 |
| Position controller | Taiwan MF | MF7802 | HKE-011 | Dec. 27, 2018 | Dec. 26, 2019 |
| Horn antenna | Schwarzbeck | 9120D | HKE-013 | Dec. 29, 2017 | Dec. 28, 2018 |
| Horn antenna | Schwarzbeck | 9120D | HKE-013 | Dec. 27, 2018 | Dec. 26, 2019 |
| Vector Analyzer | Agilent | E4440A | S/N MY44303916 | Mar.01,2018 | Feb.28,2019 |
| RF Communication Test Set | HP | HP8920B | HKE-089 | June 12, 2018 | June 11, 2019 |



4. SUPPORT EQUIPMENT LIST

| Device Type | Manufacturer | Model Name | Serial No. | Data Cable | Power Cable |
|-------------|--------------|------------|------------|------------|-------------|
| -- | -- | -- | -- | -- | -- |

5. SYSTEM DESCRIPTION

EUT test procedure:

1. Connect EUT and peripheral devices.
2. Power on the EUT, the EUT begins to work.
3. Make sure the EUT normal working.

EMC TEST MODES

| No. | TEST MODES |
|-----|--|
| 1 | Scanning mode |
| 2 | Scanning stopped/Receiving at low channel of 136 MHz -174 MHz |
| 3 | Scanning stopped/Receiving at middle channel of 136 MHz -174 MHz |
| 4 | Scanning stopped/Receiving at high channel of 136 MHz -174 MHz |
| 5 | Scanning stopped/Receiving at low channel of 400 MHz -520 MHz |
| 6 | Scanning stopped/Receiving at middle channel of 400 MHz -520 MHz |
| 7 | Scanning stopped/Receiving at high channel of 400 MHz -520 MHz |

Note: Only the result of the worst case was recorded in the report.



6. SUMMARY OF TEST RESULTS

| FCC Rules | Description Of Test | Result |
|------------|--|-----------|
| §15.107 | Conduction Emission | Compliant |
| §15.109 | Radiated Emission | Compliant |
| §15.111 | Antenna Conducted Power for receivers | Compliant |
| §15.121(b) | Scanning receivers and frequency converters used with scanning receivers | Compliant |



7. FCC RADIATED EMISSION TEST

7.1. TEST EQUIPMENT OF RADIATED EMISSION

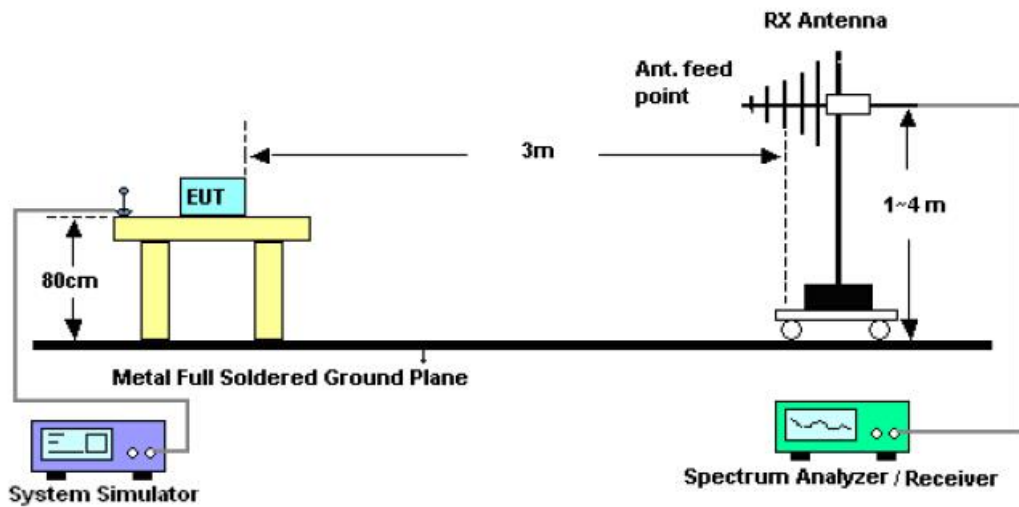
7.2. LIMITS OF RADIATED EMISSION TEST

| Frequency (MHz) | Distance (m) | Maximum Field Strength Limit (dBuV/m/ Q.P.) |
|-----------------|--------------|---|
| 30~88 | 3 | 41.0 |
| 88~216 | 3 | 45.0 |
| 216~960 | 3 | 48.0 |
| 960~2000 | 3 | 53.5 |

**Note: The lower limit shall apply at the transition frequency. Because the EUT RX frequency range up to 480 MHz, so the upper the frequency range up to 2 GHz.

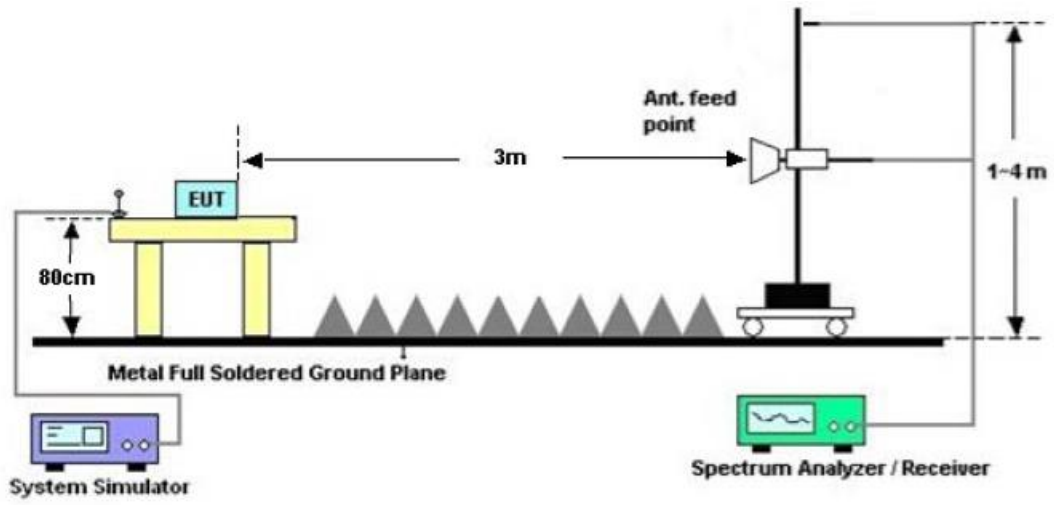
7.3 BLOCK DIAGRAM OF RADIATED EMISSION TEST

RADIATED EMISSION TEST SETUP 30MHz-1000MHz





RADIATED EMISSION TEST SETUP ABOVE 1000MHz





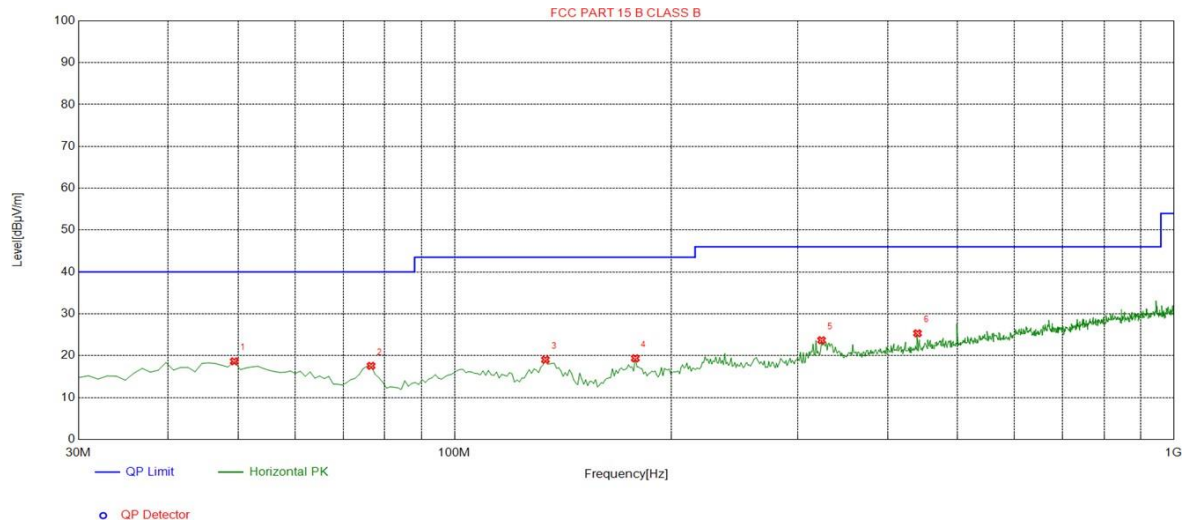
7.4 PROCEDURE OF RADIATED EMISSION TEST

- 1) The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden turntable with a height of 0.8 meters is used which is placed on the ground plane as per ANSI C63.4 (see Test Facility for the dimensions of the ground plane used). When the EUT is floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
- 2) Support equipment, if needed, was placed as per ANSI C63.4.
- 3) All I/O cables were positioned to simulate typical actual usage as per ANSI C63.4.
- 4) The EUT received power by AC 120V/60Hz.
- 5) The antenna was placed at 3 meter away from the EUT as stated in FCC Part 15. The antenna connected to the Analyzer via a cable and at times a pre-amplifier would be used.
- 6) The Analyzer / Receiver quickly scanned from 30MHz to 1000MHz. The EUT test program was started. Emissions were scanned and measured rotating the EUT to 360 degrees and positioning the antenna 1 to 4 meters above the ground plane, in both the vertical and the horizontal polarization, to maximize the emission reading level.
- 7) The test mode(s) were scanned during the test:
- 8) Recorded at least the six highest emissions. Emission frequency, amplitude, antenna position, polarization and turntable position were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit and Q.P./Peak reading is presented. For emissions below 1GHz, use 120KHz RBW and $VBW \geq 3RBW$ for QP reading.
- 9) For emissions above 1GHz, use 1MHz RBW and 3MHz VBW for peak reading. Then 1MHz RBW and 10Hz VBW for average reading in spectrum analyzer.
- 10) When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum values.
- 11) If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
- 12) For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
- 13) In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High - Low scan is not required in this case.
- 14) The test data of the worst case condition (mode 1) was reported on the following Data page



7.5 TEST RESULT OF RADIATED EMISSION TEST

Radiated Emission Test –Horizontal -3m Below 1G

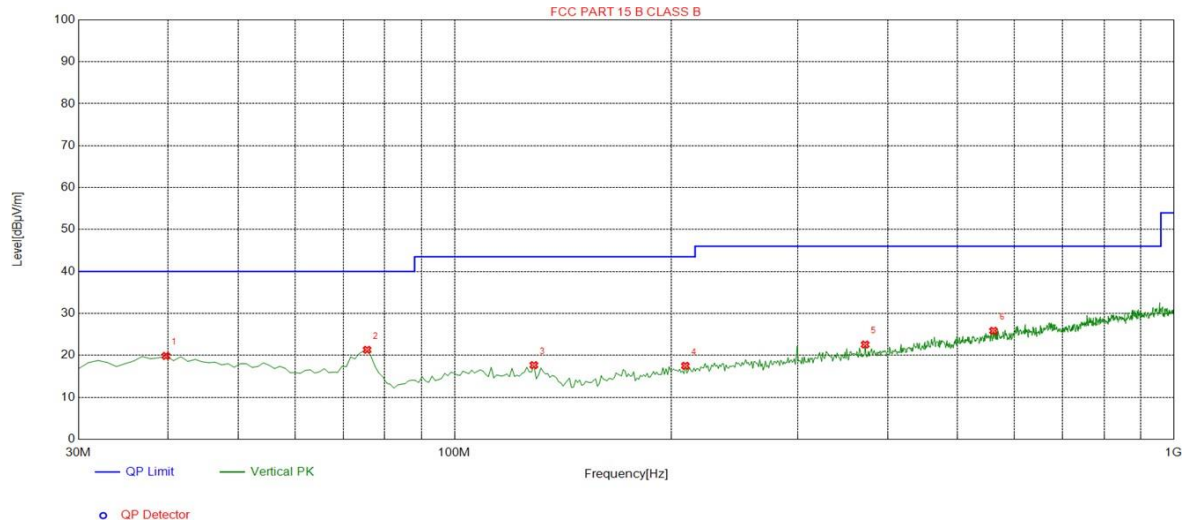


| Suspected List | | | | | | | | |
|----------------|-------------|----------------|-------------|----------------|-------------|-------------|-----------|------------|
| NO. | Freq. [MHz] | Level [dBµV/m] | Factor [dB] | Limit [dBµV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 49.4000 | 18.64 | -13.65 | 40.00 | 21.36 | 100 | 12 | Horizontal |
| 2 | 76.5600 | 17.56 | -18.85 | 40.00 | 22.44 | 100 | 56 | Horizontal |
| 3 | 133.790 | 19.03 | -18.80 | 43.50 | 24.47 | 100 | 109 | Horizontal |
| 4 | 178.410 | 19.36 | -16.93 | 43.50 | 24.14 | 100 | 116 | Horizontal |
| 5 | 323.910 | 23.68 | -11.90 | 46.00 | 22.32 | 100 | 112 | Horizontal |
| 6 | 440.310 | 25.33 | -9.41 | 46.00 | 20.67 | 100 | 359 | Horizontal |

RESULT: PASS



Radiated Emission Test –Vertical -3m Below 1G



| Suspected List | | | | | | | | |
|----------------|-------------|----------------|-------------|----------------|-------------|-------------|-----------|----------|
| NO. | Freq. [MHz] | Level [dBµV/m] | Factor [dB] | Limit [dBµV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 39.7000 | 19.86 | -14.64 | 40.00 | 20.14 | 100 | 181 | Vertical |
| 2 | 75.5900 | 21.32 | -18.68 | 40.00 | 18.68 | 100 | 134 | Vertical |
| 3 | 128.940 | 17.66 | -18.41 | 43.50 | 25.84 | 100 | 241 | Vertical |
| 4 | 209.450 | 17.50 | -14.81 | 43.50 | 26.00 | 100 | 156 | Vertical |
| 5 | 372.410 | 22.57 | -10.96 | 46.00 | 23.43 | 100 | 348 | Vertical |
| 6 | 561.560 | 25.85 | -6.64 | 46.00 | 20.15 | 100 | 62 | Vertical |

RESULT: PASS

- Note:** 1. Factor=Antenna Factor + Cable loss - Amplifier gain, Margin=Measurement-Limit.
 2. The “Factor” value can be calculated automatically by software of measurement system.
 3. Emissions range from 1GHz to 2GHz have 20dB margin. No recording in the test report.
 4. Only the data of the worst case would be record in this test report.



8. CONDUCTED EMISSION TEST

8.1 PROVISIONS APPLICABLE

For an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequencies within the band 150 KHz to 30 MHz shall not exceed the limits in the following table, as measured using a 50uH/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequencies ranges.

| Frequency of Emission (MHz) | Conducted 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.

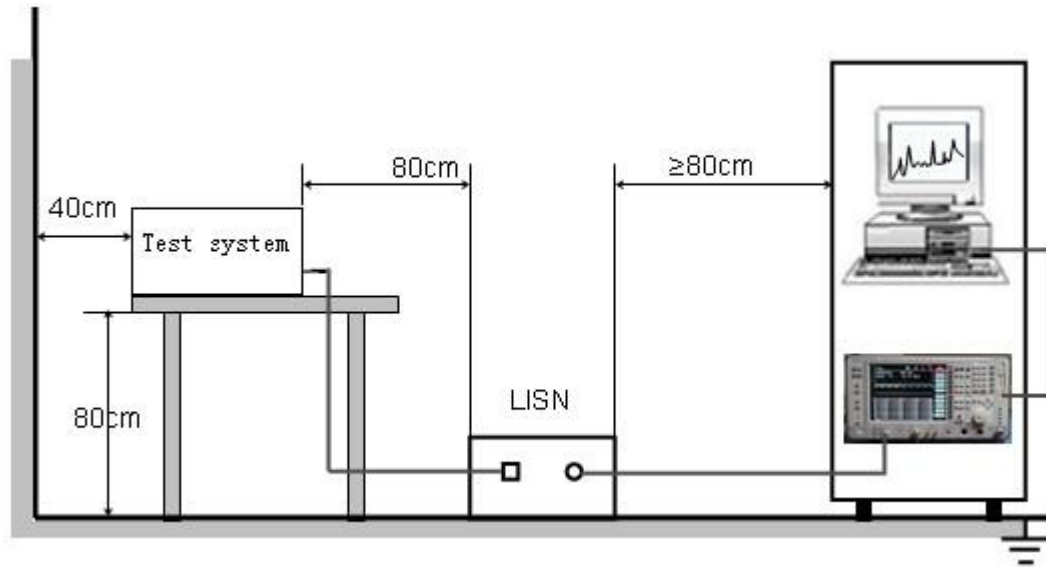
8.2 MEASUREMENT PROCEDURE

- (1) The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.4 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
- (2) Support equipment, if needed, was placed as per ANSI C63.4.
- (3) All I/O cables were positioned to simulate typical actual usage as per ANSI C63.4.
- (4) The EUT received AC 120V/60Hz power through a Line Impedance Stabilization Network (LISN) which supplied power source and was grounded to the ground plane.
- (5) All support equipments received AC power from a second LISN, if any.
- (6) The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- (7) Analyzer / Receiver scanned from 150 KHz to 30MHz for emissions in each of the test modes.

During the above scans, the emissions were maximized by cable manipulation.



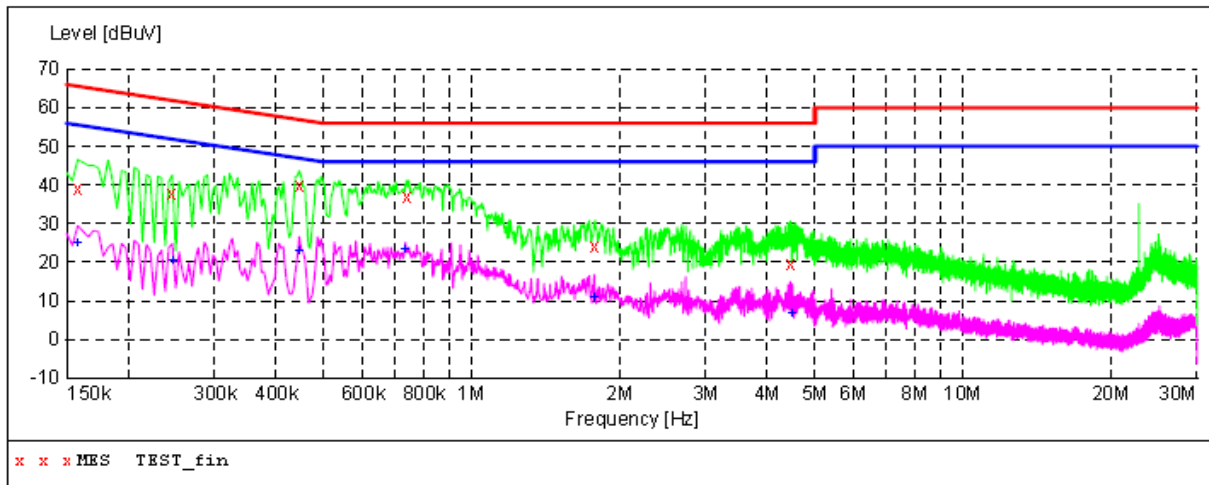
8.3 TEST SETUP BLOCK DIAGRAM





8.4 TEST RESULT

CONDUCTED EMISSION TEST – LINE L



MEASUREMENT RESULT: "TEST_fin"

| Frequency MHz | Level dBuV | Transd dB | Limit dBuV | Margin dB | Detector | Line | PE |
|------------------|---------------|--------------|---------------|--------------|----------|------|-----|
| 0.158000 | 38.90 | 10.3 | 66 | 26.7 | QP | L1 | FLO |
| 0.246000 | 37.60 | 10.3 | 62 | 24.3 | QP | L1 | FLO |
| 0.446000 | 39.80 | 10.3 | 57 | 17.1 | QP | L1 | FLO |
| 0.738000 | 37.00 | 10.3 | 56 | 19.0 | QP | L1 | FLO |
| 1.786000 | 23.90 | 10.4 | 56 | 32.1 | QP | L1 | FLO |
| 4.466000 | 19.40 | 10.4 | 56 | 36.6 | QP | L1 | FLO |

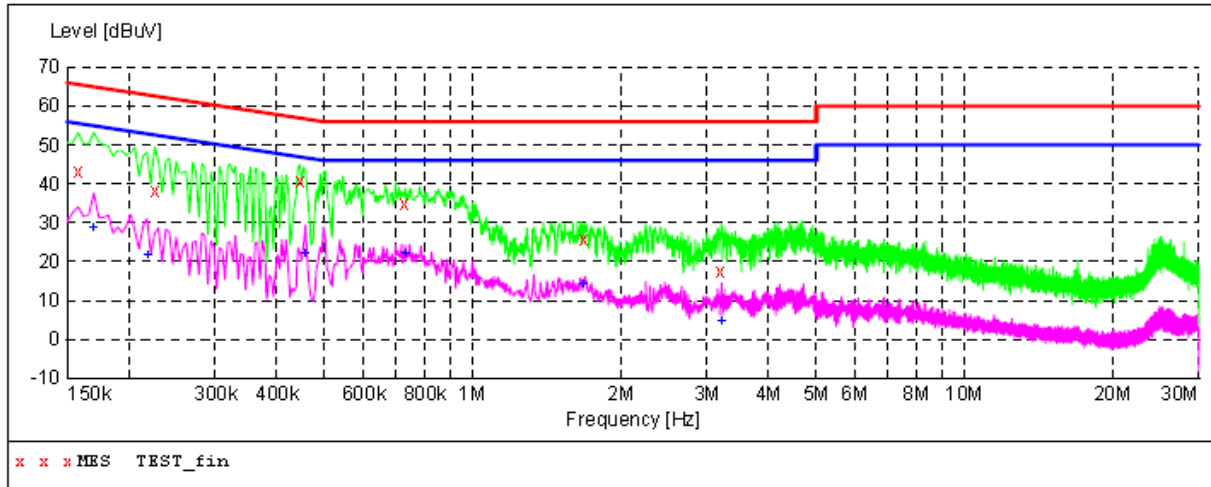
MEASUREMENT RESULT: "TEST_fin2"

| Frequency MHz | Level dBuV | Transd dB | Limit dBuV | Margin dB | Detector | Line | PE |
|------------------|---------------|--------------|---------------|--------------|----------|------|-----|
| 0.158000 | 24.80 | 10.3 | 56 | 30.8 | AV | L1 | FLO |
| 0.246000 | 20.40 | 10.3 | 52 | 31.5 | AV | L1 | FLO |
| 0.446000 | 22.80 | 10.3 | 47 | 24.1 | AV | L1 | FLO |
| 0.734000 | 23.20 | 10.3 | 46 | 22.8 | AV | L1 | FLO |
| 1.778000 | 10.80 | 10.4 | 46 | 35.2 | AV | L1 | FLO |
| 4.506000 | 6.70 | 10.4 | 46 | 39.3 | AV | L1 | FLO |

RESULT: PASS



CONDUCTED EMISSION TEST – LINE N



MEASUREMENT RESULT: "TEST_fin"

| Frequency MHz | Level dBuV | Transd dB | Limit dBuV | Margin dB | Detector | Line | PE |
|------------------|---------------|--------------|---------------|--------------|----------|------|-----|
| 0.158000 | 43.20 | 10.3 | 66 | 22.4 | QP | N | FLO |
| 0.226000 | 38.30 | 10.3 | 63 | 24.3 | QP | N | FLO |
| 0.446000 | 40.60 | 10.3 | 57 | 16.3 | QP | N | FLO |
| 0.730000 | 34.80 | 10.3 | 56 | 21.2 | QP | N | FLO |
| 1.682000 | 25.80 | 10.4 | 56 | 30.2 | QP | N | FLO |
| 3.206000 | 17.40 | 10.4 | 56 | 38.6 | QP | N | FLO |

MEASUREMENT RESULT: "TEST_fin2"

| Frequency MHz | Level dBuV | Transd dB | Limit dBuV | Margin dB | Detector | Line | PE |
|------------------|---------------|--------------|---------------|--------------|----------|------|-----|
| 0.170000 | 28.80 | 10.3 | 55 | 26.2 | AV | N | FLO |
| 0.218000 | 21.50 | 10.3 | 53 | 31.4 | AV | N | FLO |
| 0.458000 | 21.90 | 10.3 | 47 | 24.8 | AV | N | FLO |
| 0.730000 | 22.10 | 10.3 | 46 | 23.9 | AV | N | FLO |
| 1.686000 | 14.30 | 10.4 | 46 | 31.7 | AV | N | FLO |
| 3.198000 | 4.80 | 10.4 | 46 | 41.2 | AV | N | FLO |

RESULT: PASS



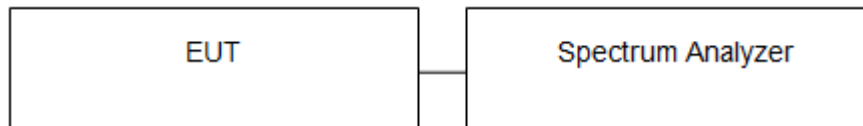
9. ANTENNA CONDUCTED POWER FOR RECEIVERS

LIMIT

The antenna conducted power of the receiver as defined in §15.111 shall not exceed the values given in the following tables

| Frequency Range | 9 KHz to 2GHz |
|-----------------|-------------------|
| Limit | 2.0 nW (-57 dBm) |

TEST CONFIGURATION



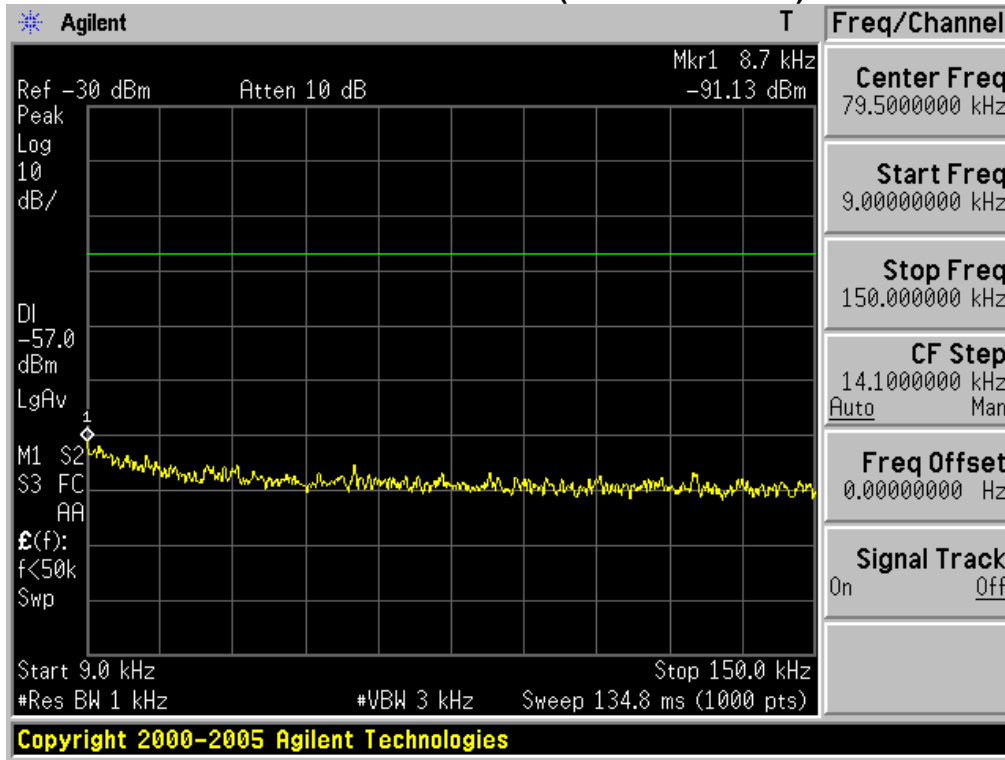
TEST PROCEDURE

1. The receiver antenna terminal connected to a spectrum analyzer.
2. The test data of the worst case condition (mode 1) was reported on the following Data page.

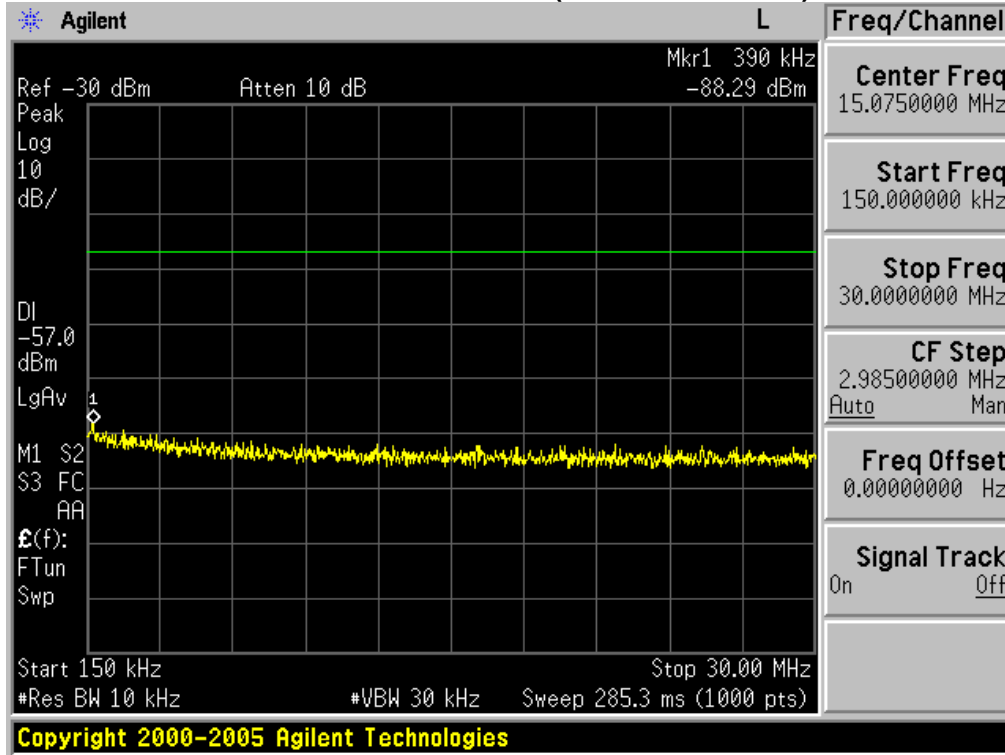


TEST RESULTS

Conducted Measurement (9 KHz to 150 KHz)

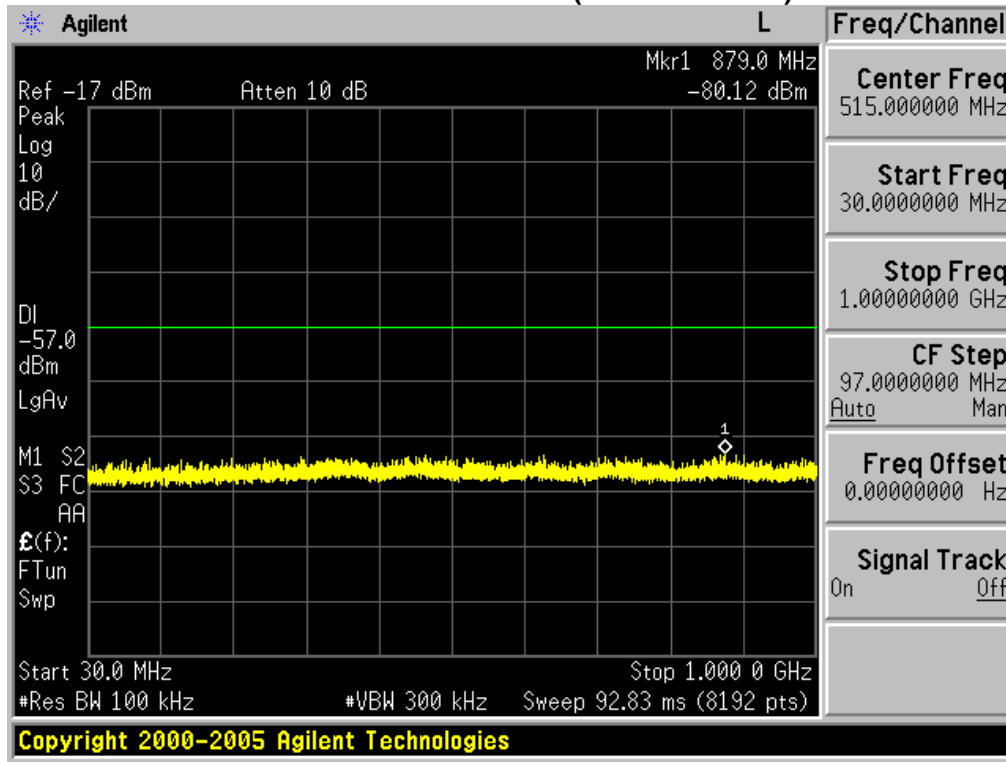


Conducted Measurement (150 KHz to 30MHz)

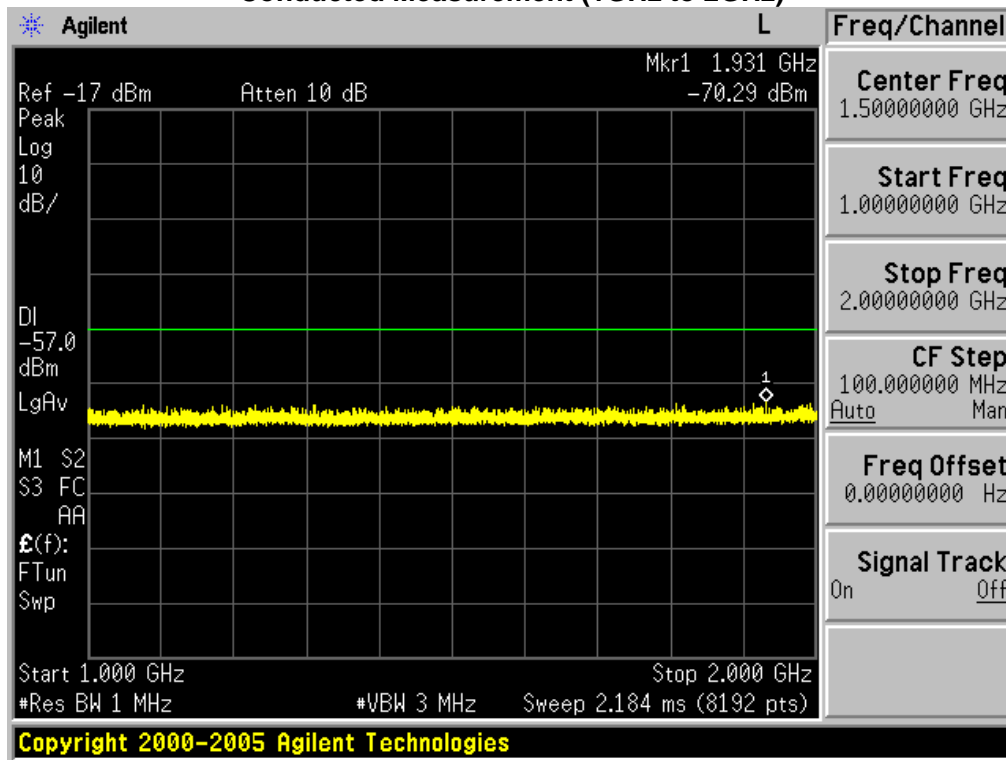




Conducted Measurement (30MHz to 1GHz)



Conducted Measurement (1GHz to 2GHz)



PASS

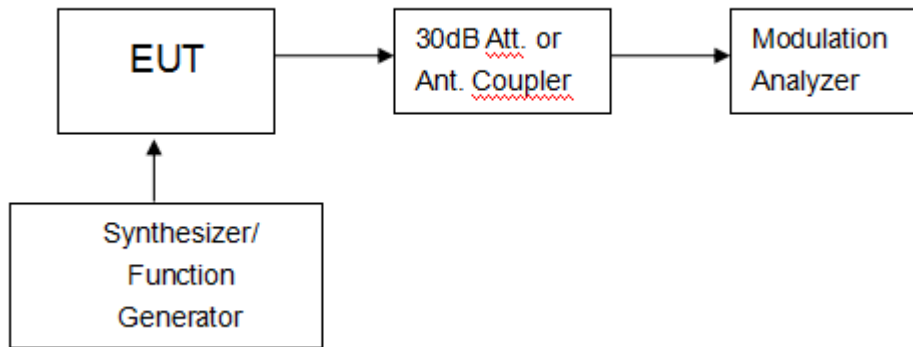


10. SCANNING RECEIVERS AND FREQUENCY CONVERTERS USED WITH SCANNING RECEIVERS.

LIMIT

Except as provided in paragraph (c) of this section, scanning receivers shall reject any signals from the Cellular Radiotelephone Service frequency bands that are 38 dB or lower based upon a 12 dB SINAD measurement, which is considered the threshold where a signal can be clearly discerned from any interference that may be present.

TEST CONFIGURATION



TEST PROCEDURE

Please review the FCC Part 15.121 b section requirements to meet the testing process

TEST RESULTS

VHF:

| Frequency Range(MHz) | Channel | Measurement Result (dB) | Limit(dB) | Result |
|----------------------|---------|-------------------------|-----------|--------|
| 136-174 | Bottom | 46 | > 38 | Pass |
| 136-174 | Middle | 44 | > 38 | Pass |
| 136-174 | Top | 45 | > 38 | Pass |



UHF:

| Frequency Range(MHz) | Channel | Measurement Result (dB) | Limit(dB) | Result |
|-----------------------------|----------------|--------------------------------|------------------|---------------|
| 400-520 | Bottom | 47 | >38 | Pass |
| 400-520 | Middle | 47 | >38 | Pass |
| 400-520 | Top | 44 | >38 | Pass |

Note:1.This device meets the requirements of FCC PART 15.121.b

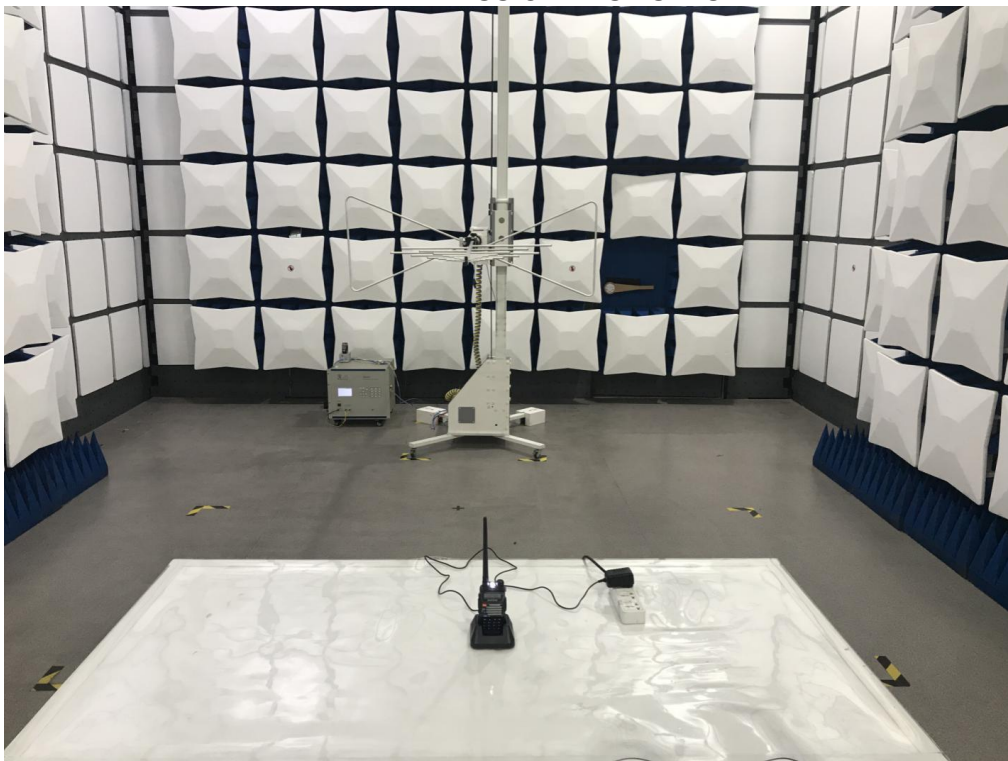
2.The test report only shows the worst test results



APPENDIX 1 PHOTOGRAPHS OF TEST SETUP CONDUCTED EMISSION TEST SETUP

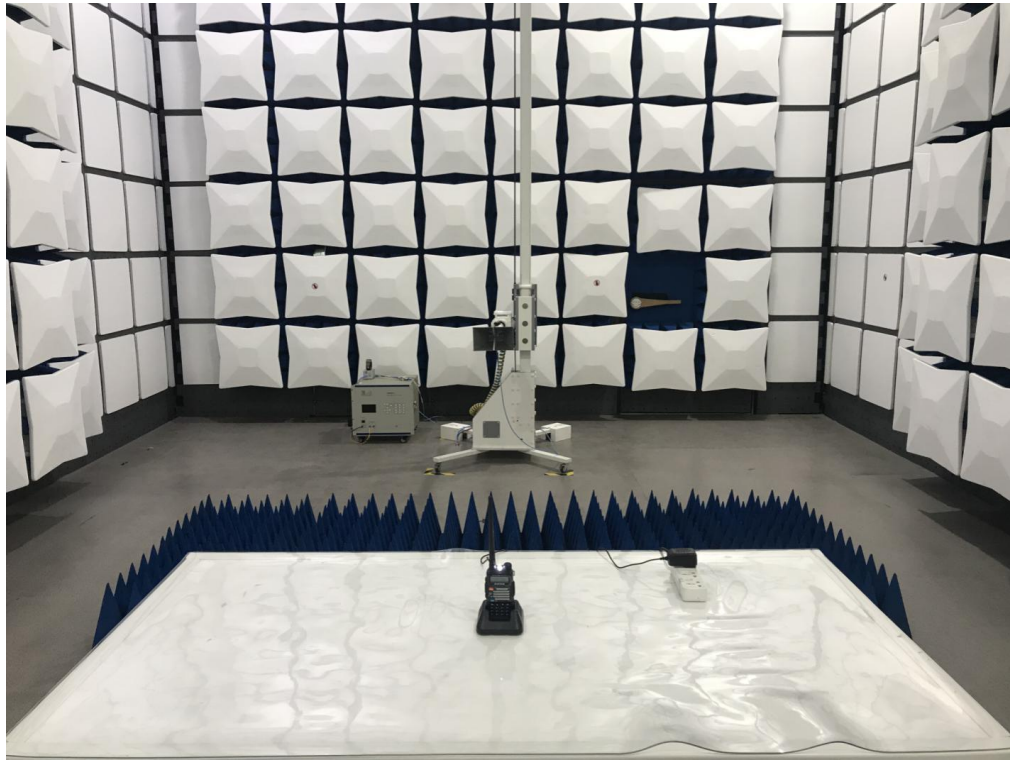


RADIATED EMISSION TEST SETUP





RADIATED EMISSION ABOVE 1G TEST SETUP





APPENDIX 2 PHOTOGRAPHS OF EUT

TOTAL VIEW OF EUT



TOP VIEW OF EUT





BOTTOM VIEW OF EUT



FRONT VIEW OF EUT





BACK VIEW OF EUT



LEFT VIEW OF EUT





RIGHT VIEW OF EUT



OPEN VIEW-1 OF EUT

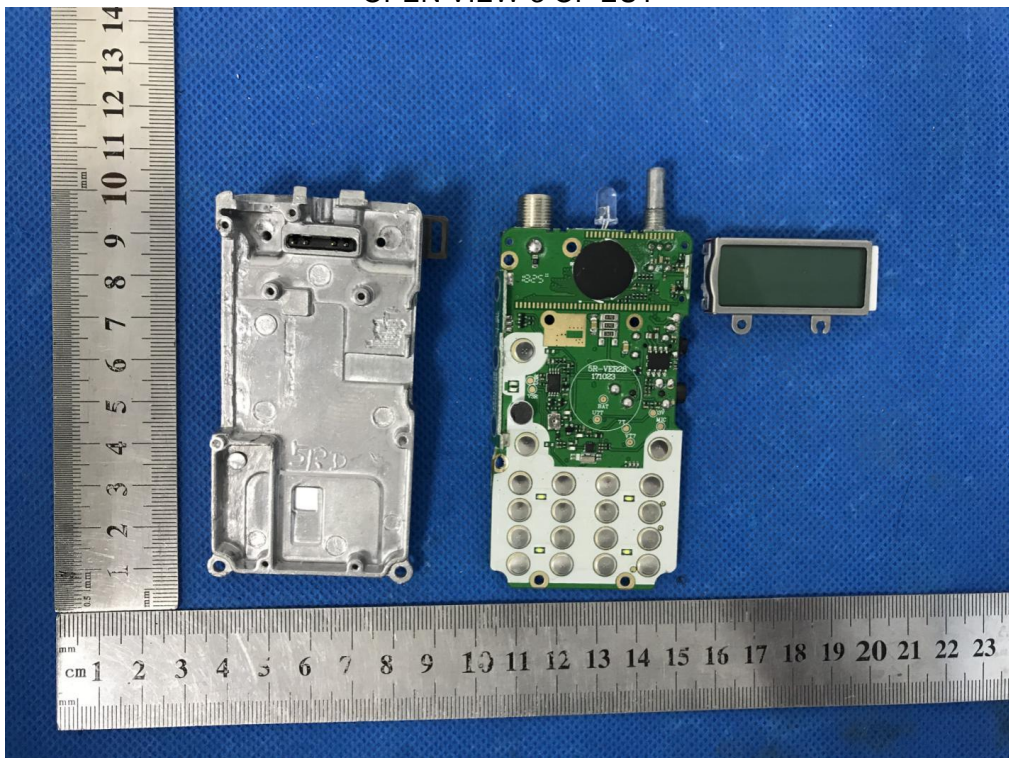




OPEN VIEW-2 OF EUT

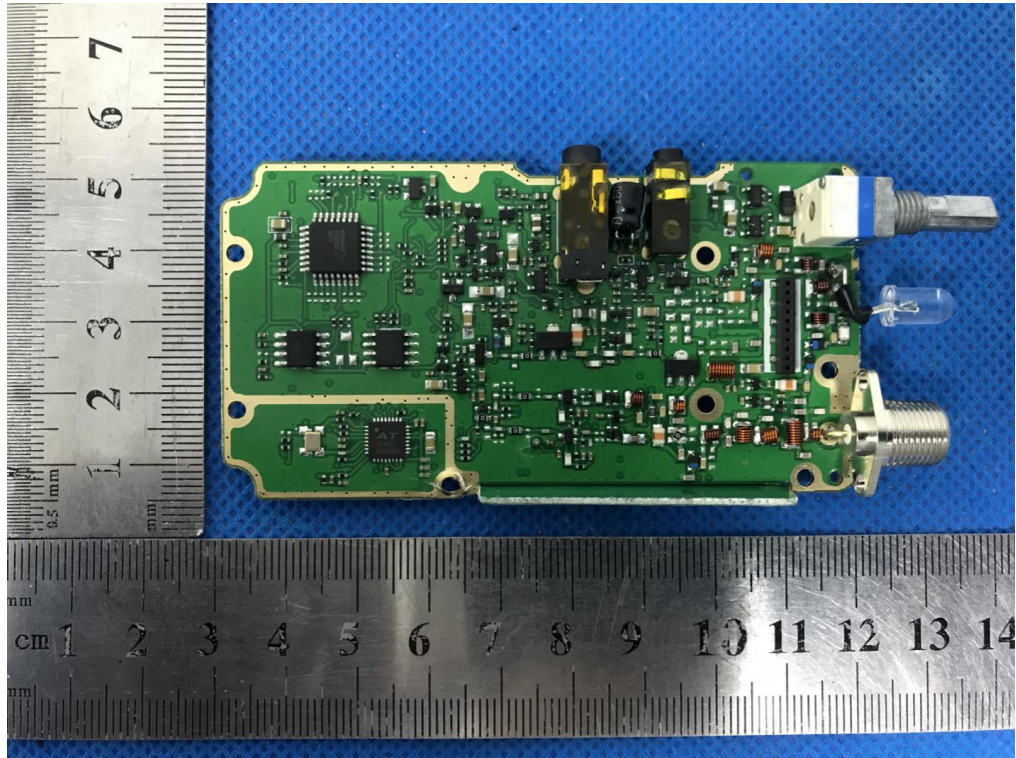


OPEN VIEW-3 OF EUT

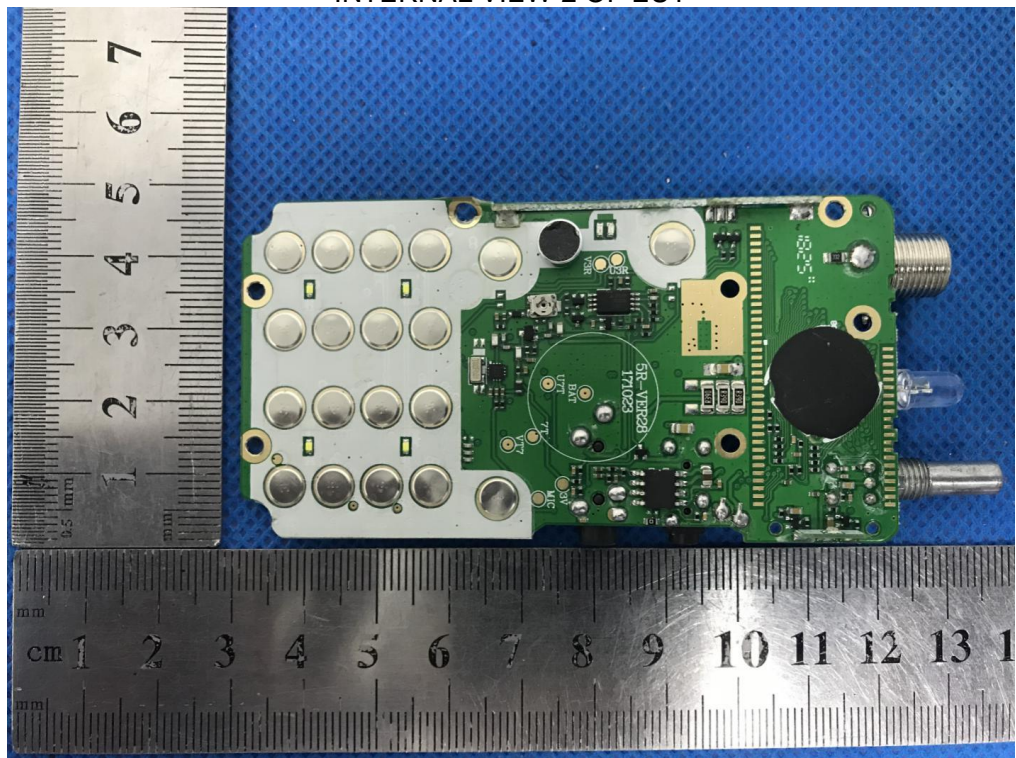




INTERNAL VIEW-1 OF EUT

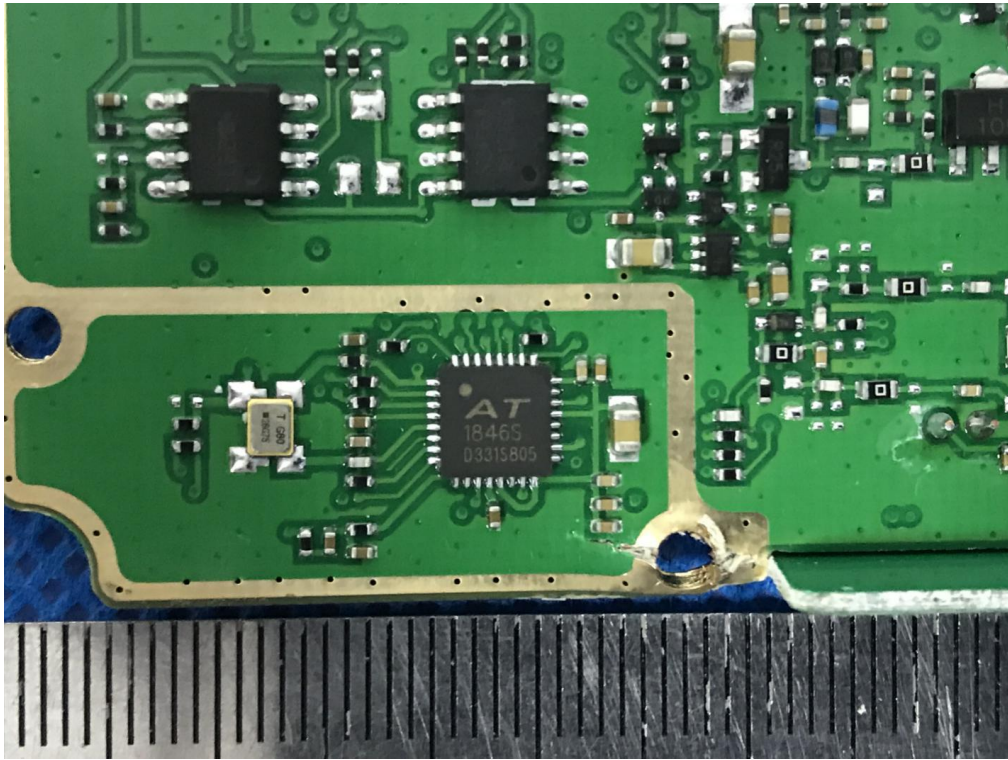


INTERNAL VIEW-2 OF EUT





INTERNAL VIEW-3 OF EUT



----END OF REPORT----