

13.3. PROCEDURE OF LINE CONDUCTED 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 table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10 (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 C63.10.
- (3) All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
- (4) The EUT received DC 5V power from adapter which received AC120V/60Hz power from a LISN.
- (5) 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.
- (6) Analyzer / Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.
- (7) During the above scans, the emissions were maximized by cable manipulation.
- (8) A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions.
- (9) Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. If EUT emission level was less -2dB to the A.V. limit in Peak mode, then the emission signal was re-checked using Q.P and Average detector.



Attestation of Global Compliance(Shenzhen)Co.,Ltd.

Add: 2/F., Building 2, No.1-4, Chaxi Sanwei Technial Industrial Park, Gushu,
Xixiang, Bao'an District, Shenzhen, Guangdong, China

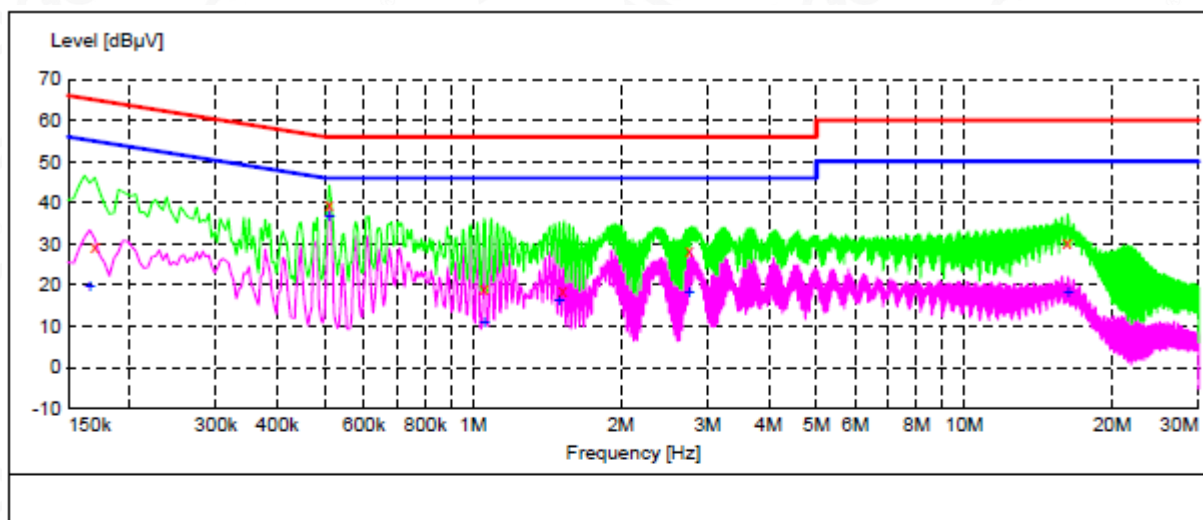
Tel: +86-755 2523 4088

E-mail: agc@agc-cert.com

Service Hotline:400 089 2118

13.4. TEST RESULT OF LINE CONDUCTED EMISSION TEST

LINE CONDUCTED EMISSION TEST-L1



MEASUREMENT RESULT: "TEST_fin"

| Frequency MHz | Level dBμV | Transd dB | Limit dBμV | Margin dB | Detector | Line | PE |
|------------------|---------------|--------------|---------------|--------------|----------|------|-----|
| 0.170000 | 29.10 | 10.3 | 65 | 35.9 | QP | L1 | FLO |
| 0.510000 | 39.50 | 10.3 | 56 | 16.5 | QP | L1 | FLO |
| 1.054000 | 19.10 | 10.4 | 56 | 36.9 | QP | L1 | FLO |
| 1.530000 | 18.60 | 10.4 | 56 | 37.4 | QP | L1 | FLO |
| 2.754000 | 28.40 | 10.4 | 56 | 27.6 | QP | L1 | FLO |
| 16.190000 | 30.20 | 10.9 | 60 | 29.8 | QP | L1 | FLO |

MEASUREMENT RESULT: "TEST_fin2"

| Frequency MHz | Level dBμV | Transd dB | Limit dBμV | Margin dB | Detector | Line | PE |
|------------------|---------------|--------------|---------------|--------------|----------|------|-----|
| 0.166000 | 19.40 | 10.3 | 55 | 35.8 | AV | L1 | FLO |
| 0.510000 | 36.80 | 10.3 | 46 | 9.2 | AV | L1 | FLO |
| 1.054000 | 10.90 | 10.4 | 46 | 35.1 | AV | L1 | FLO |
| 1.498000 | 16.30 | 10.4 | 46 | 29.7 | AV | L1 | FLO |
| 2.754000 | 18.30 | 10.4 | 46 | 27.7 | AV | L1 | FLO |
| 16.262000 | 18.20 | 10.9 | 50 | 31.8 | AV | L1 | FLO |

RESULT: PASS



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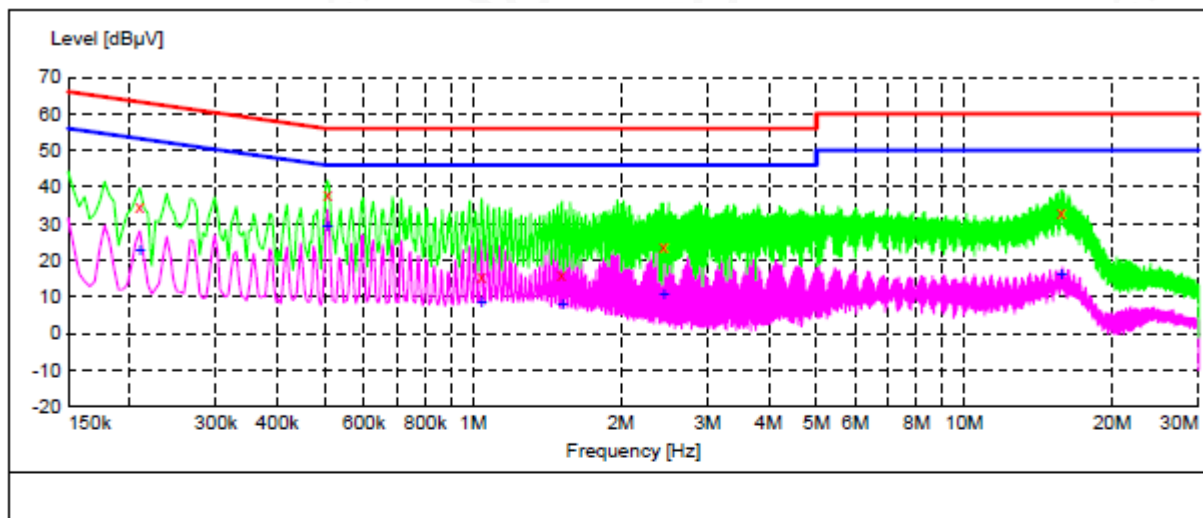
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Xixiang, Bao'an District, Shenzhen, Guangdong, China

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LINE CONDUCTED EMISSION TEST-N



MEASUREMENT RESULT: "TEST_fin"

| Frequency MHz | Level dBμV | Transd dB | Limit dBμV | Margin dB | Detector | Line | PE |
|------------------|---------------|--------------|---------------|--------------|----------|------|-----|
| 0.210000 | 34.60 | 10.3 | 63 | 28.6 | QP | N | FLO |
| 0.506000 | 38.00 | 10.3 | 56 | 18.0 | QP | N | FLO |
| 1.042000 | 15.60 | 10.4 | 56 | 40.4 | QP | N | FLO |
| 1.518000 | 16.00 | 10.4 | 56 | 40.0 | QP | N | FLO |
| 2.442000 | 23.80 | 10.4 | 56 | 32.2 | QP | N | FLO |
| 15.750000 | 32.80 | 10.9 | 60 | 27.2 | QP | N | FLO |

MEASUREMENT RESULT: "TEST_fin2"

| Frequency MHz | Level dBμV | Transd dB | Limit dBμV | Margin dB | Detector | Line | PE |
|------------------|---------------|--------------|---------------|--------------|----------|------|-----|
| 0.210000 | 22.70 | 10.3 | 53 | 30.5 | AV | N | FLO |
| 0.506000 | 29.20 | 10.3 | 46 | 16.8 | AV | N | FLO |
| 1.042000 | 8.40 | 10.4 | 46 | 37.6 | AV | N | FLO |
| 1.518000 | 8.10 | 10.4 | 46 | 37.9 | AV | N | FLO |
| 2.442000 | 10.40 | 10.4 | 46 | 35.6 | AV | N | FLO |
| 15.750000 | 15.90 | 10.9 | 50 | 34.1 | AV | N | FLO |



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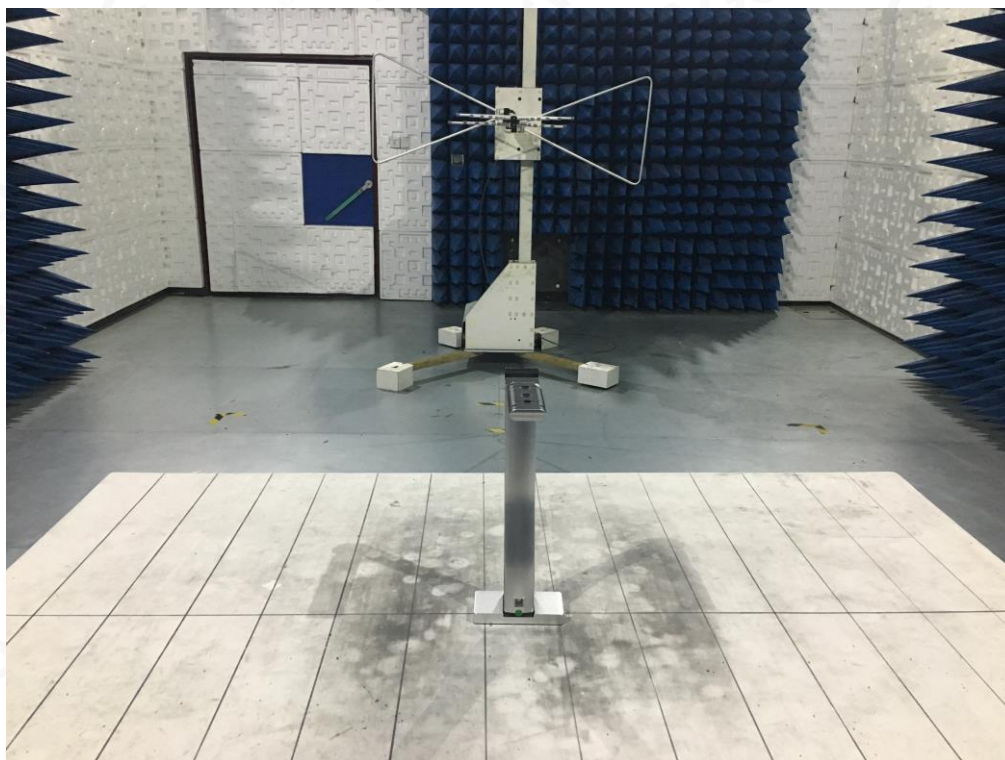
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E-mail: agc@agc-cert.com

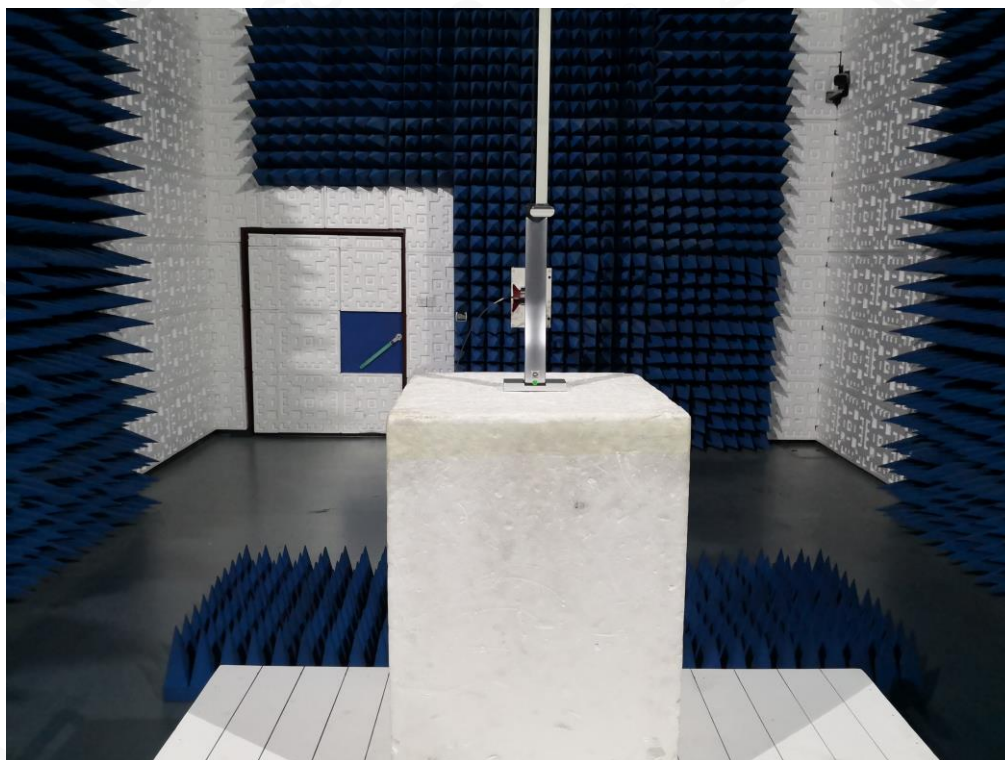
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APPENDIX A: PHOTOGRAPHS OF TEST SETUP

FCC RADIATED EMISSION TEST SETUP BELOW 1GHZ



FCC RADIATED EMISSION TEST SETUP ABOVE 1GHZ



FCC CONDUCTED EMISSION TEST SETUP



APPENDIX B: PHOTOGRAPHS OF EUT

ALL VIEW OF EUT



TOP VIEW OF EUT



BOTTOM VIEW OF EUT



FRONT VIEW OF EUT



BACK VIEW OF EUT



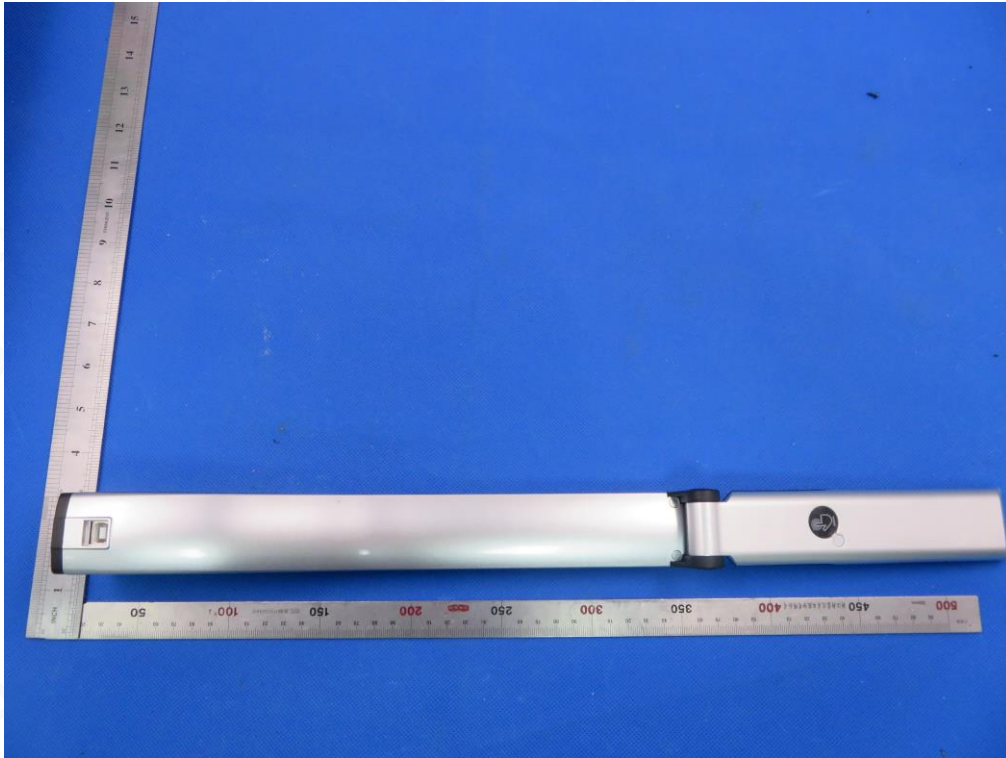
LEFT VIEW OF EUT



RIGHT VIEW OF EUT



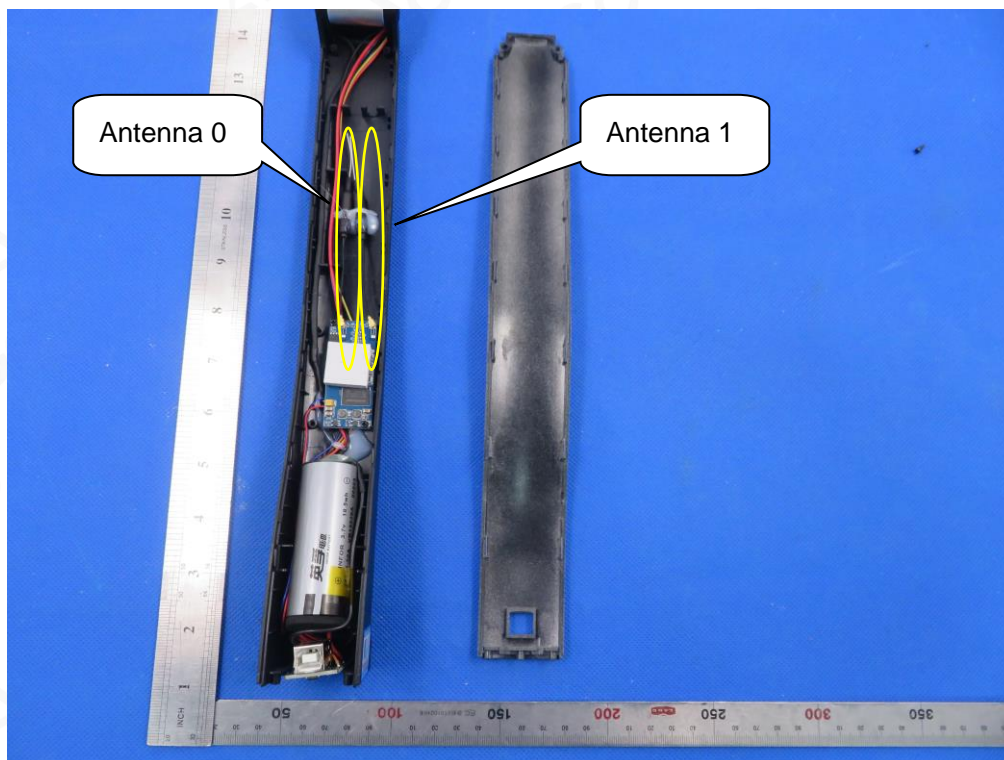
VIEW OF EUT(PORT)



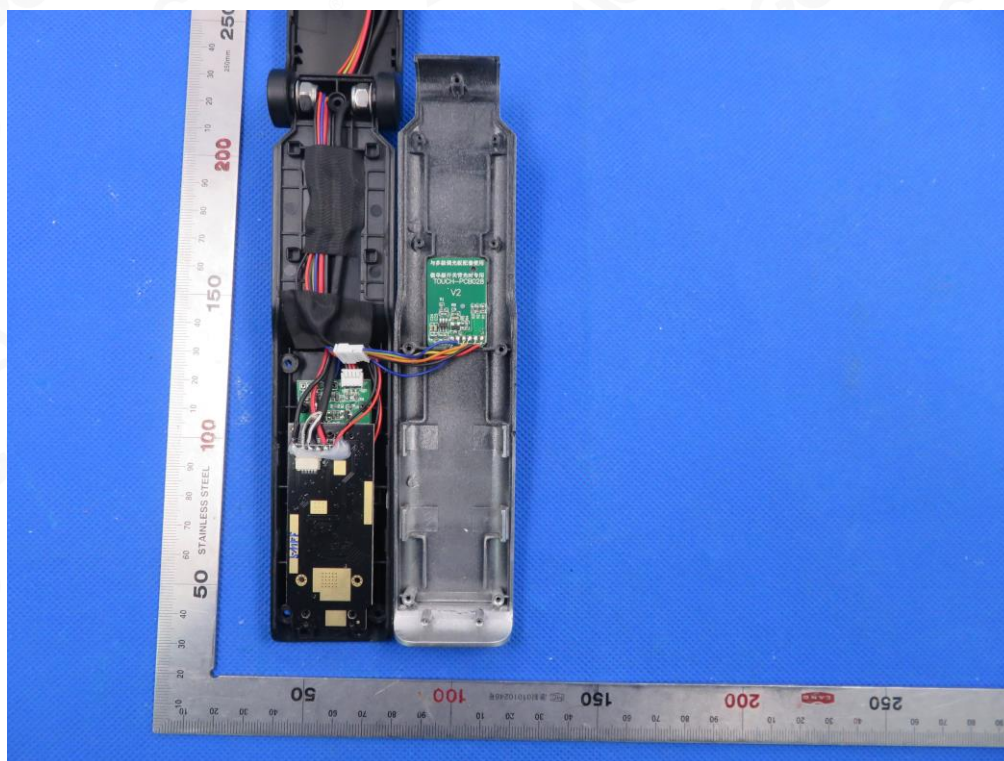
OPEN VIEW OF EUT-1



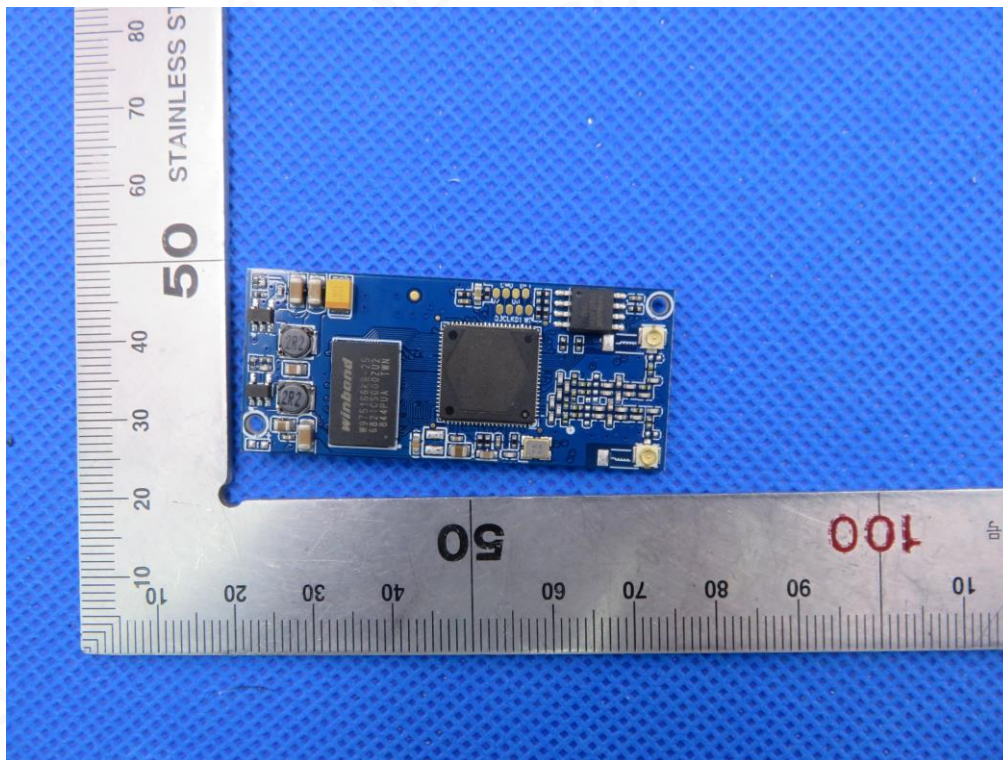
OPEN VIEW OF EUT-2



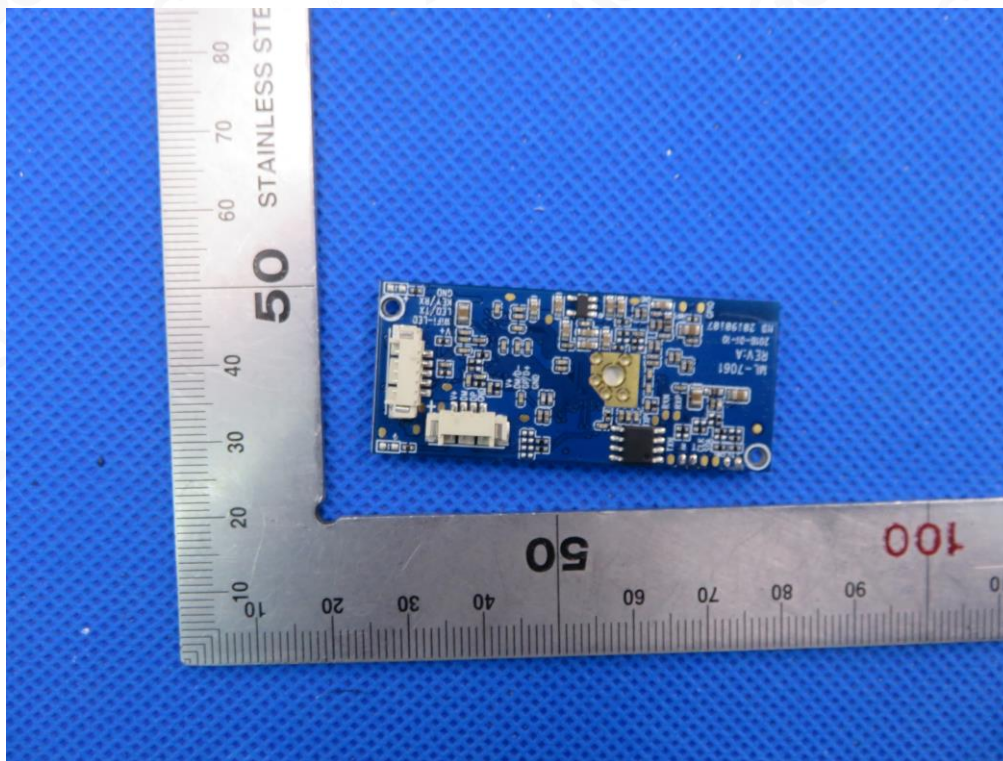
OPEN VIEW OF EUT-3



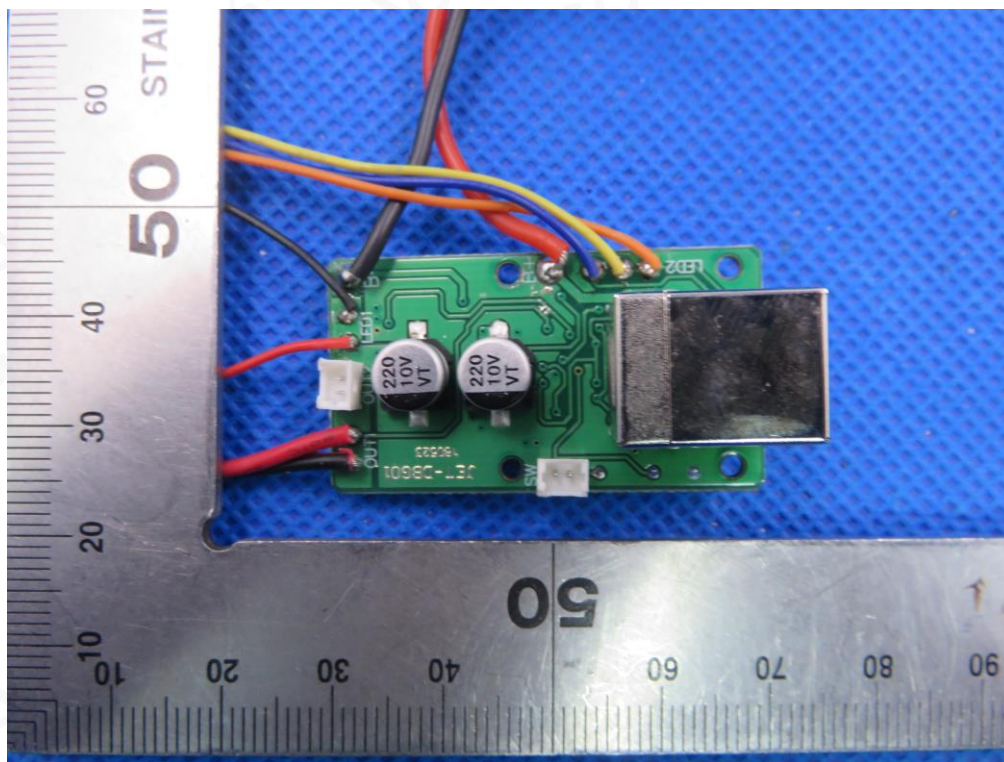
INTERNAL VIEW OF EUT-1



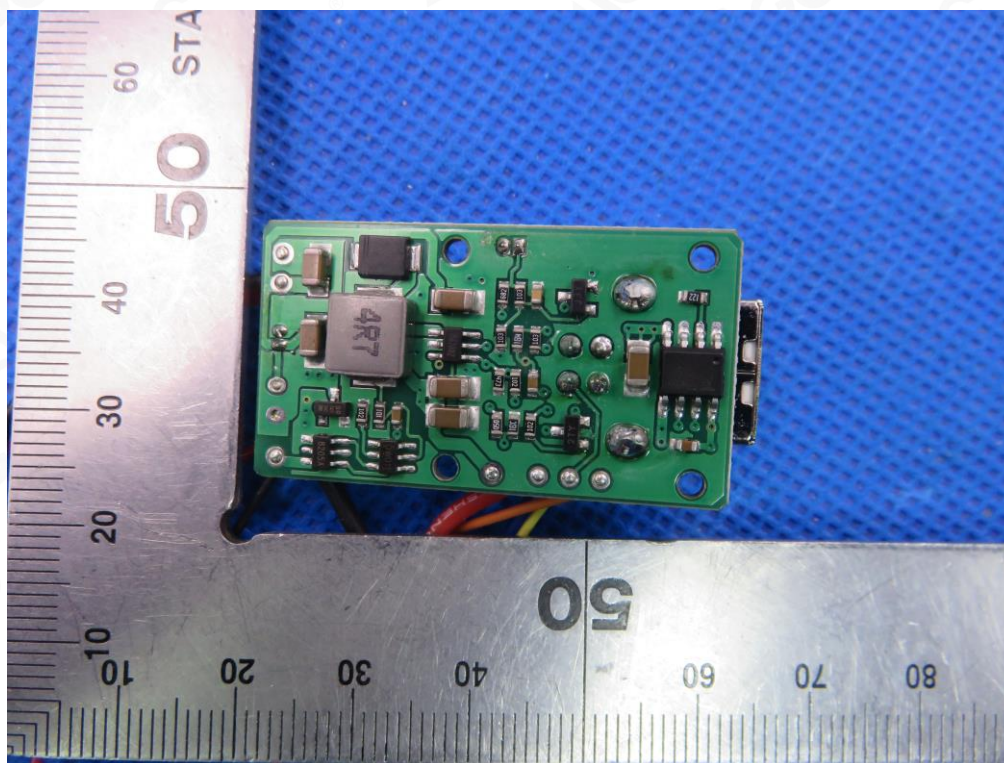
INTERNAL VIEW OF EUT-2



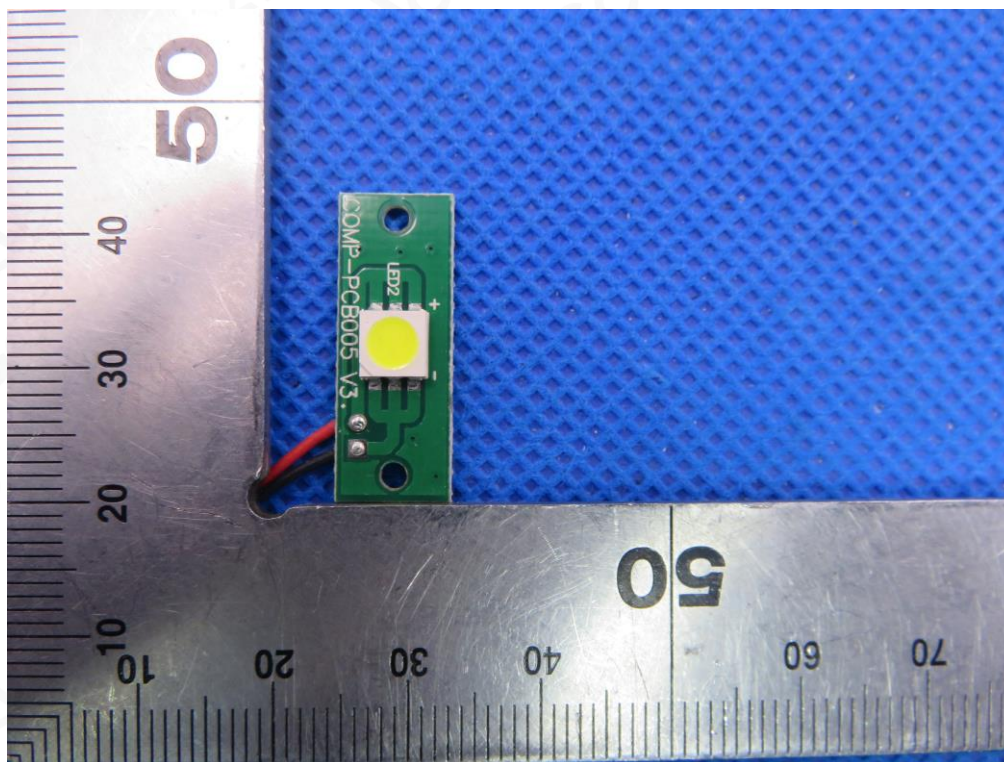
INTERNAL VIEW OF EUT-3



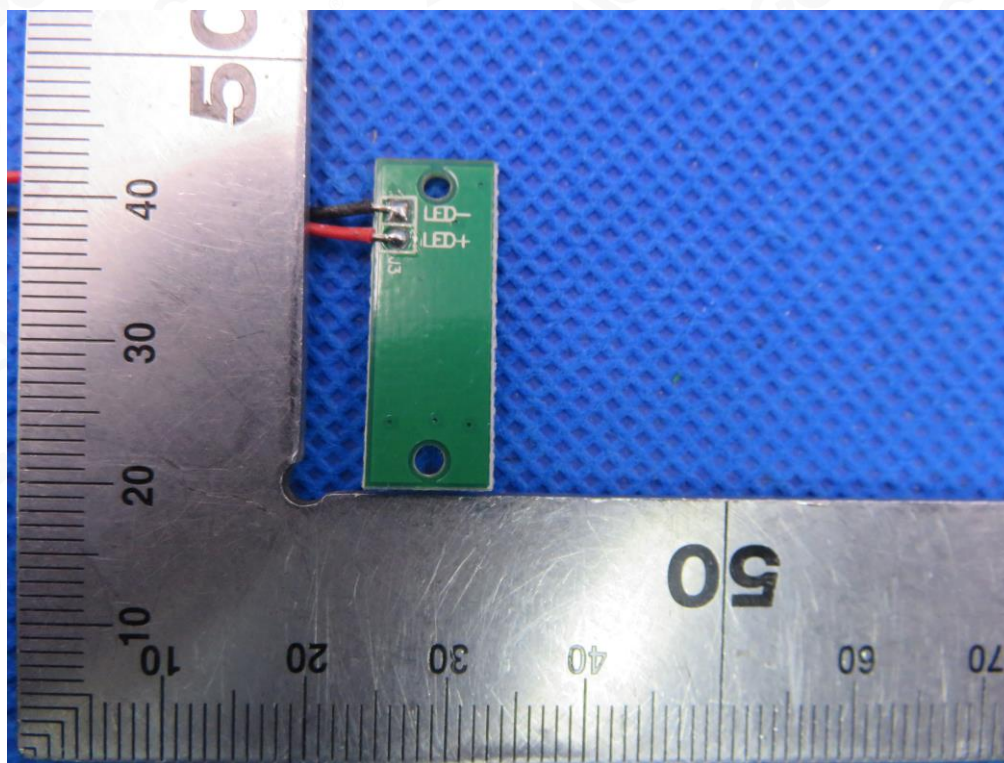
INTERNAL VIEW OF EUT-4



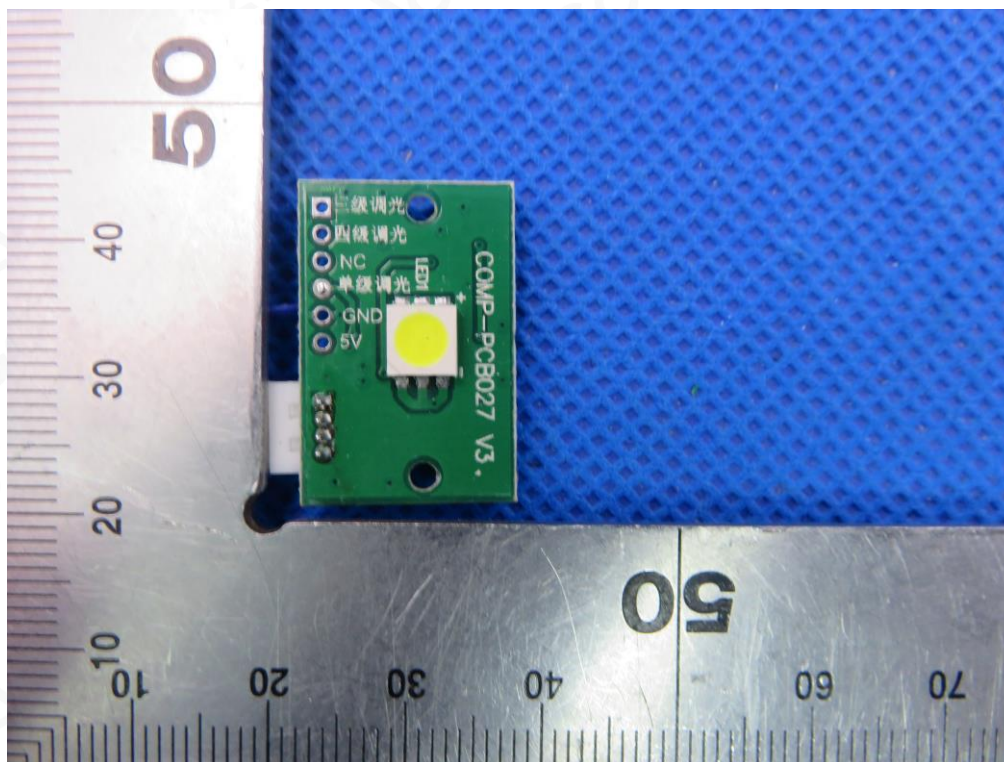
INTERNAL VIEW OF EUT-5



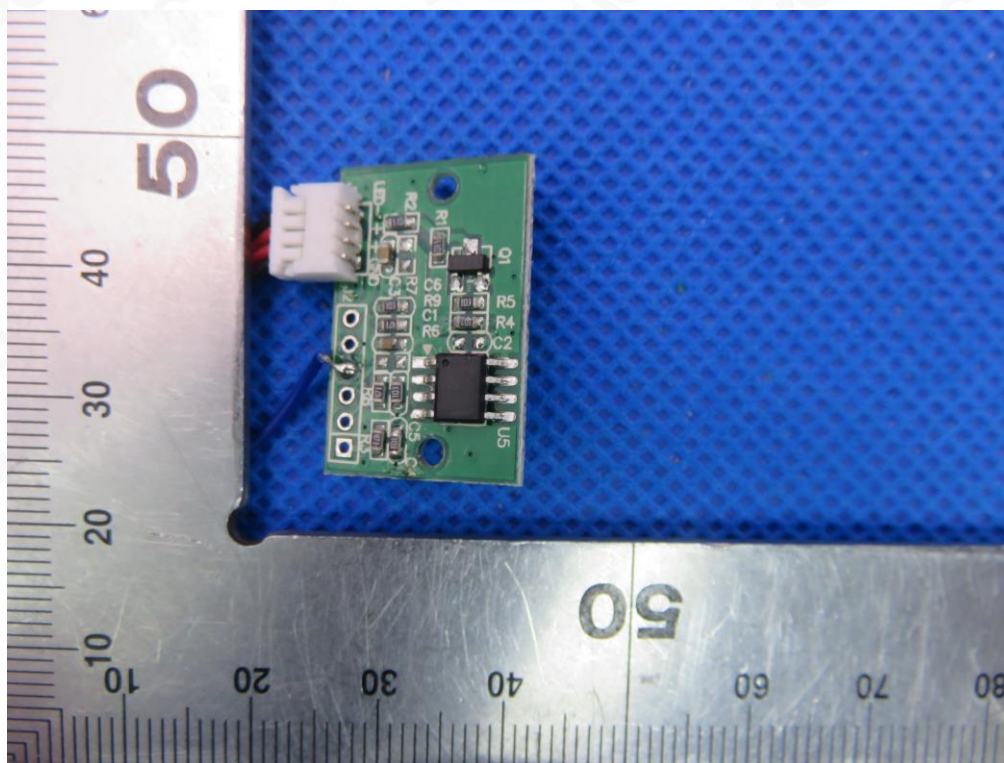
INTERNAL VIEW OF EUT-6



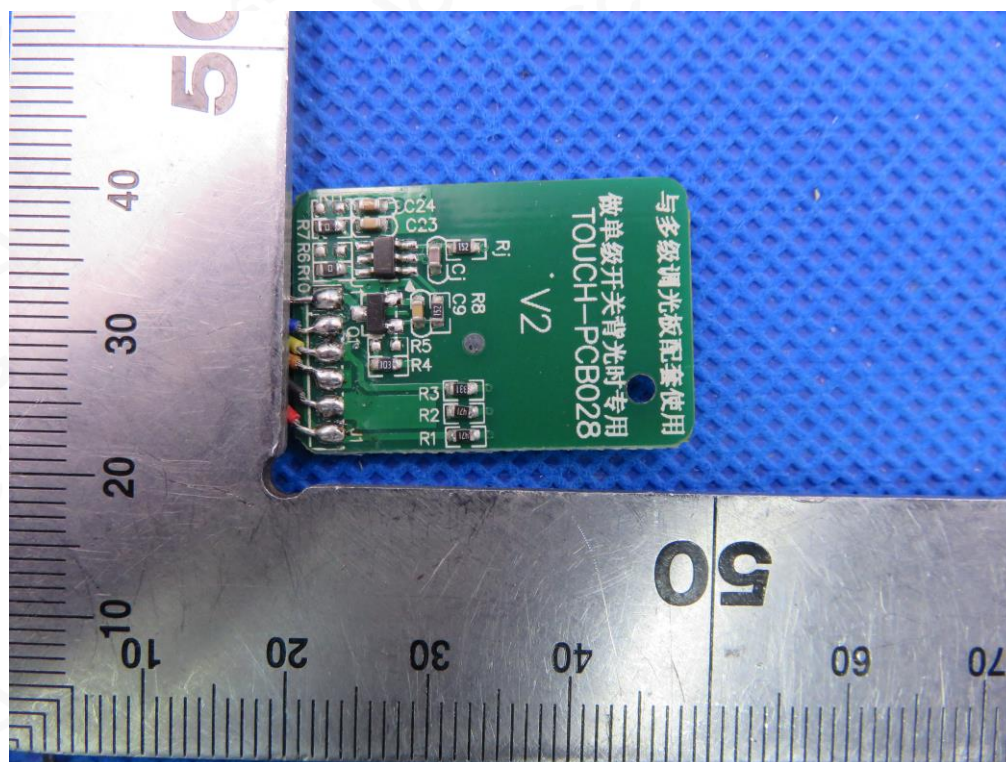
INTERNAL VIEW OF EUT-7



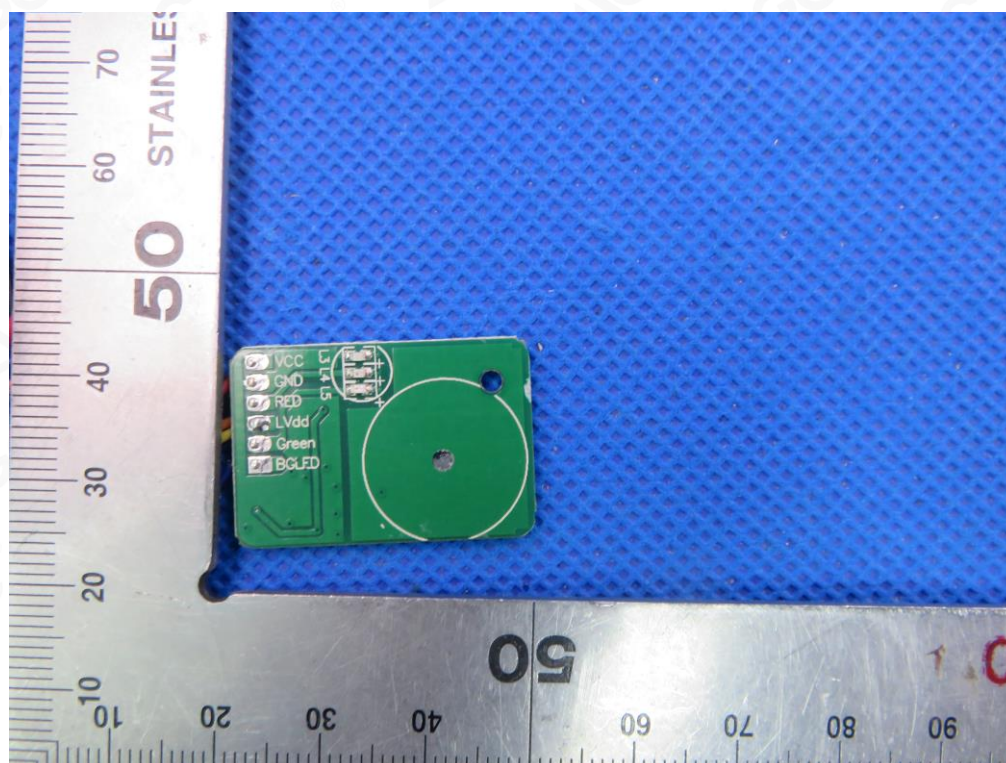
INTERNAL VIEW OF EUT-8



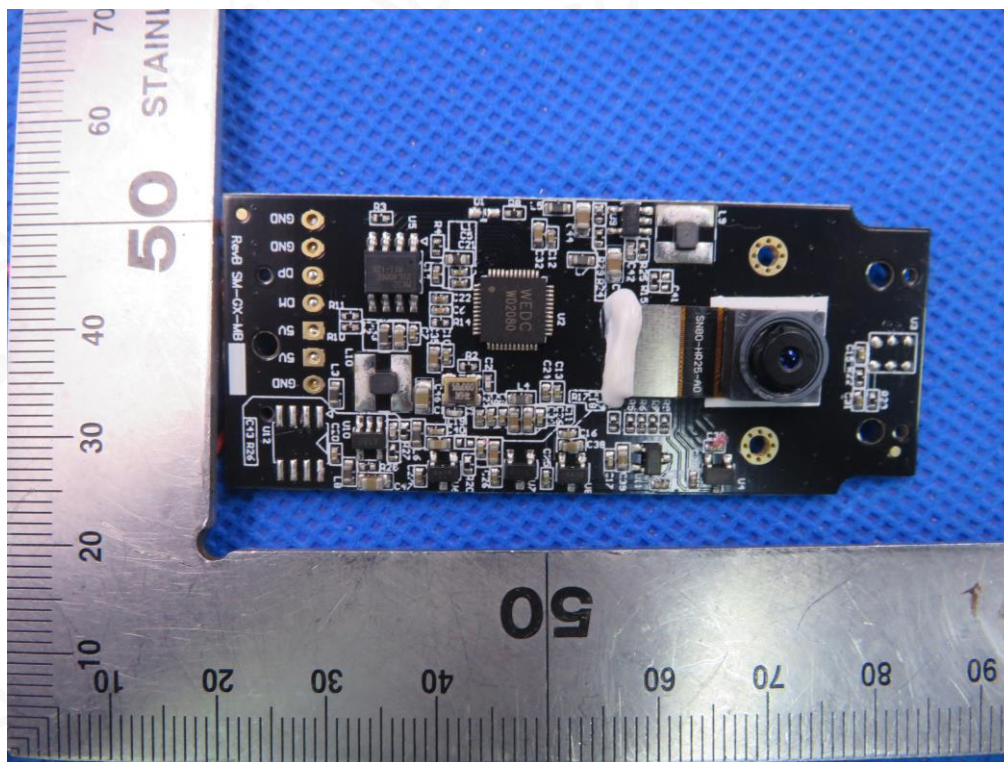
INTERNAL VIEW OF EUT-9



INTERNAL VIEW OF EUT-10



INTERNAL VIEW OF EUT-11



INTERNAL VIEW OF EUT-12

