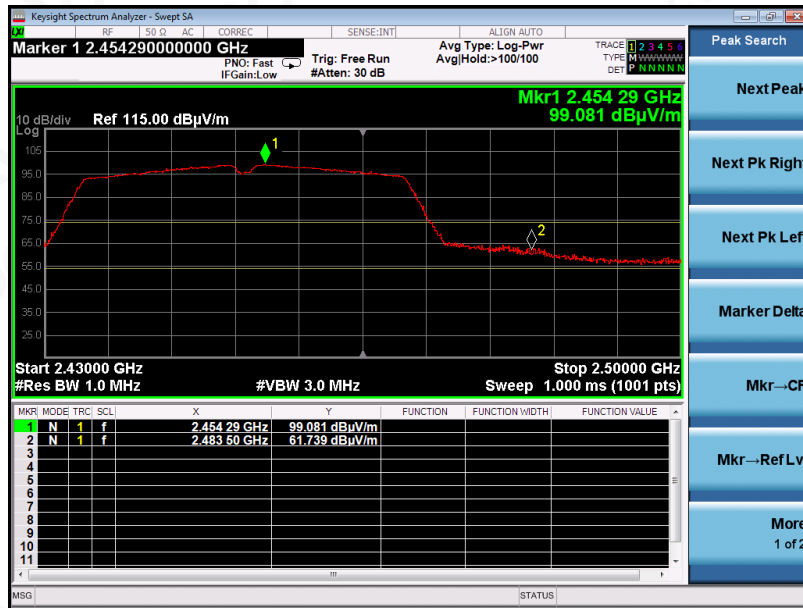
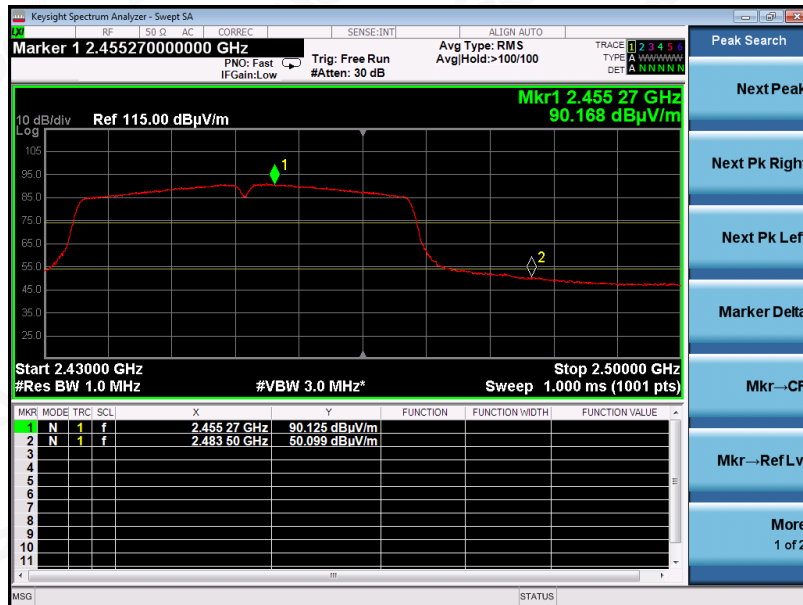


EUT	Teton Router 750	Model Name	TR750
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n 40 with data rate 13.5 2452MHZ	Antenna	Vertical

PK



AV



RESULT: PASS



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### 13. FCC LINE CONDUCTED EMISSION TEST

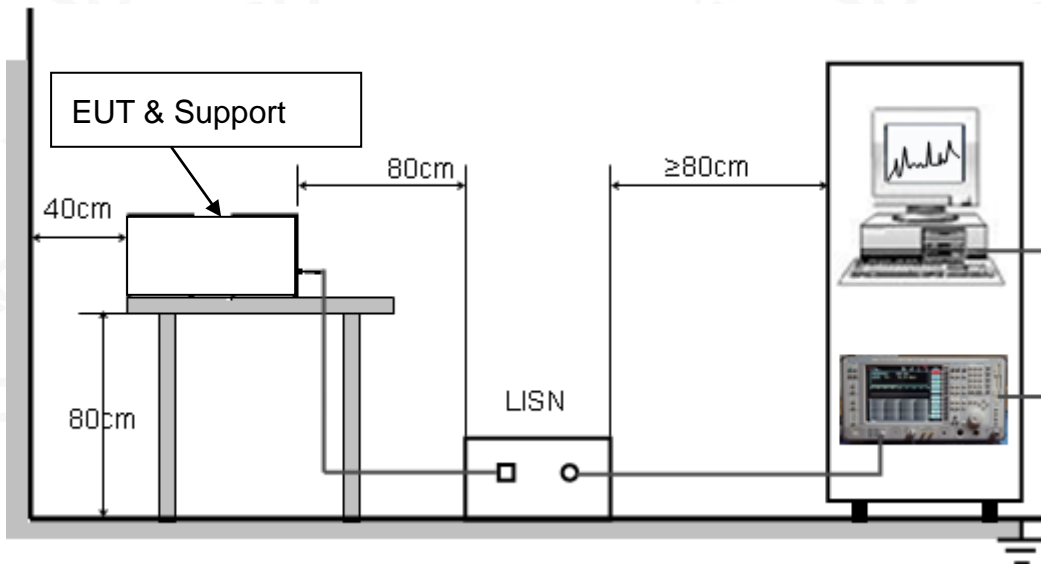
#### 13.1. LIMITS OF LINE CONDUCTED EMISSION TEST

Frequency	Maximum RF Line Voltage	
	Q.P.( dBuV)	Average( dBuV)
150kHz~500kHz	66-56	56-46
500kHz~5MHz	56	46
5MHz~30MHz	60	50

Note:

1. The lower limit shall apply at the transition frequency.
2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

#### 13.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST



### 13.3. PRELIMINARY 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. All support equipments received AC120V/60Hz power from a LISN, if any.
5. The EUT received charging voltage by adapter which received 120V/60Hz power by a LISN..
6. The 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.
8. During the above scans, the emissions were maximized by cable manipulation.
9. The test mode(s) were scanned during the preliminary test.

Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

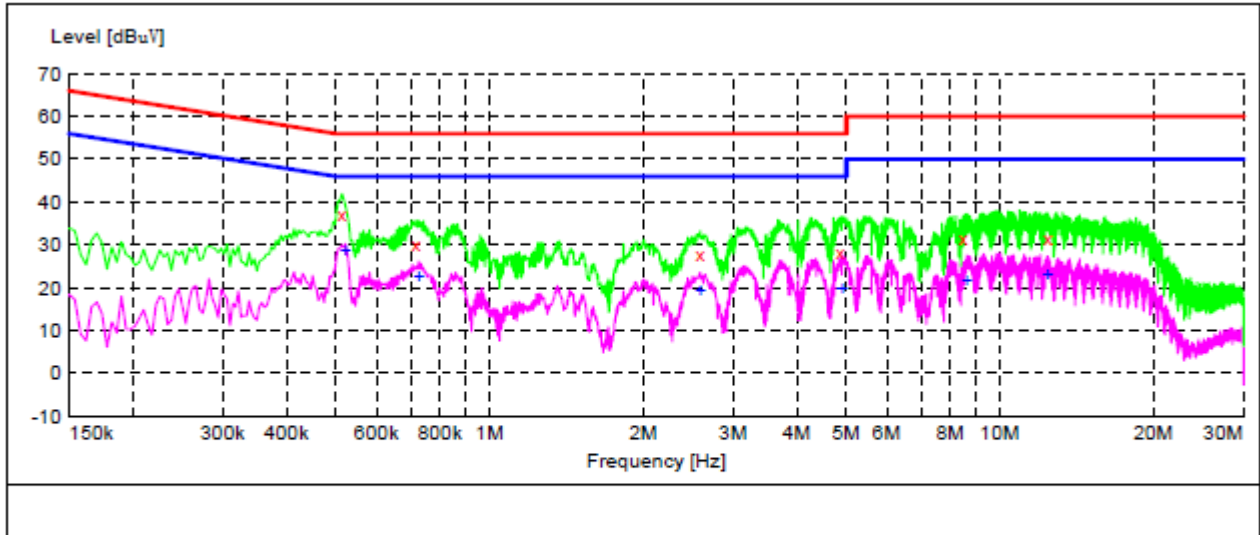
### 13.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST

1. EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
2. A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. 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  $-2\text{dB}$  to the A.V. limit in Peak mode, then the emission signal was re-checked using Q.P and Average detector.
3. The test data of the worst case condition(s) was reported on the Summary Data page.



### 13.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

#### LINE CONDUCTED EMISSION TEST LINE 1-L



**MEASUREMENT RESULT: "TESTL1\_fin"**

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.514000	37.30	10.3	56	18.7	QP	L1	FLO
0.718000	30.20	10.3	56	25.8	QP	L1	FLO
2.586000	27.60	10.4	56	28.4	QP	L1	FLO
4.862000	28.30	10.4	56	27.7	QP	L1	FLO
8.474000	31.50	10.7	60	28.5	QP	L1	FLO
12.402000	31.50	10.8	60	28.5	QP	L1	FLO

**MEASUREMENT RESULT: "TESTL1\_fin2"**

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.522000	28.50	10.3	46	17.5	AV	L1	FLO
0.726000	22.50	10.3	46	23.5	AV	L1	FLO
2.586000	19.50	10.4	46	26.5	AV	L1	FLO
4.922000	19.90	10.4	46	26.1	AV	L1	FLO
8.618000	21.60	10.7	50	28.4	AV	L1	FLO
12.402000	23.10	10.8	50	26.9	AV	L1	FLO

**RESULT: PASS**

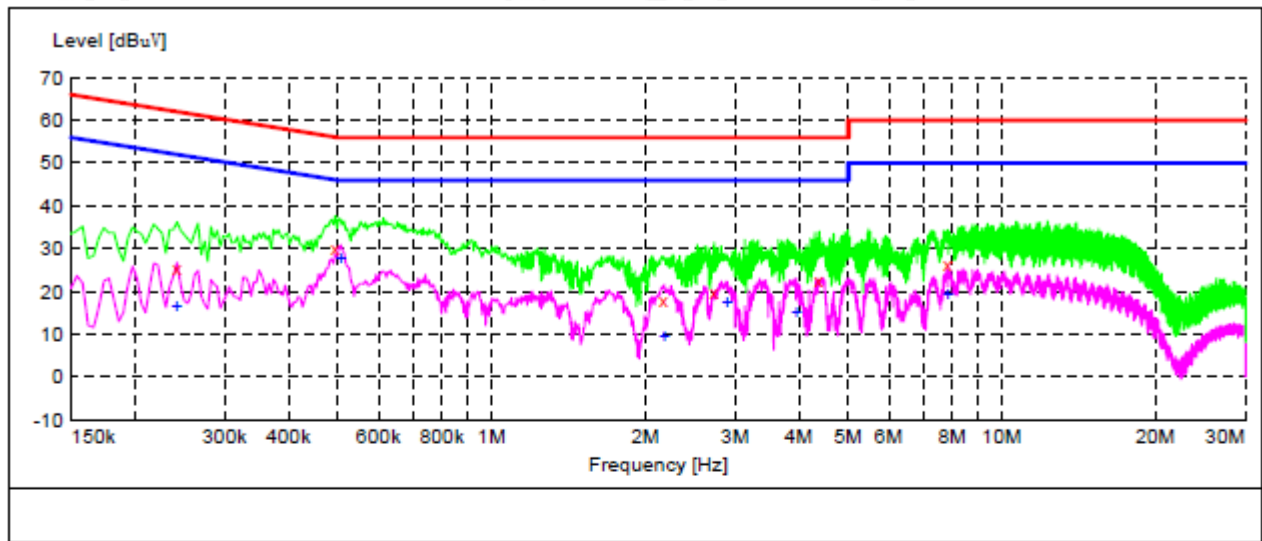


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Line Conducted Emission Test Line 2-N



**MEASUREMENT RESULT: "TESTL1\_fin"**

Frequency MHz	Level dBUV	Transd dB	Limit dBUV	Margin dB	Detector	Line	PE
0.242000	25.60	10.3	62	36.4	QP	N	FLO
0.494000	30.20	10.3	56	25.9	QP	N	FLO
2.170000	18.00	10.4	56	38.0	QP	N	FLO
2.730000	19.70	10.4	56	36.3	QP	N	FLO
4.382000	22.60	10.4	56	33.4	QP	N	FLO
7.822000	26.30	10.7	60	33.7	QP	N	FLO

**MEASUREMENT RESULT: "TESTL1\_fin2"**

Frequency MHz	Level dBUV	Transd dB	Limit dBUV	Margin dB	Detector	Line	PE
0.242000	16.50	10.3	52	35.5	AV	N	FLO
0.506000	27.80	10.3	46	18.2	AV	N	FLO
2.178000	9.50	10.4	46	36.5	AV	N	FLO
2.898000	17.50	10.4	46	28.5	AV	N	FLO
3.954000	15.00	10.4	46	31.0	AV	N	FLO
7.834000	19.40	10.7	50	30.6	AV	N	FLO

**RESULT: PASS**



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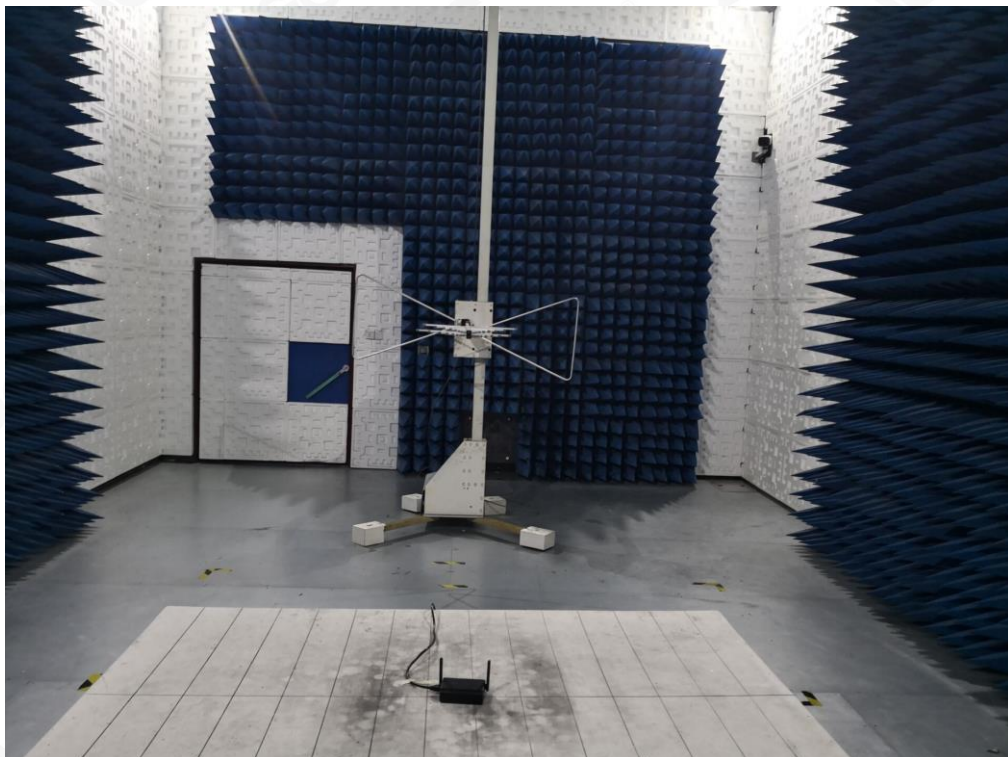
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### APPENDIX A: PHOTOGRAPHS OF TEST SETUP

#### FCC LINE CONDUCTED EMISSION TEST SETUP



#### FCC RADIATED EMISSION TEST SETUP BELOW 1GHZ



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FCC RADIATED EMISSION TEST SETUP ABOVE 1GHZ



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### APPENDIX B: PHOTOGRAPHS OF EUT

TOP VIEW OF EUT



BOTTOM VIEW OF EUT



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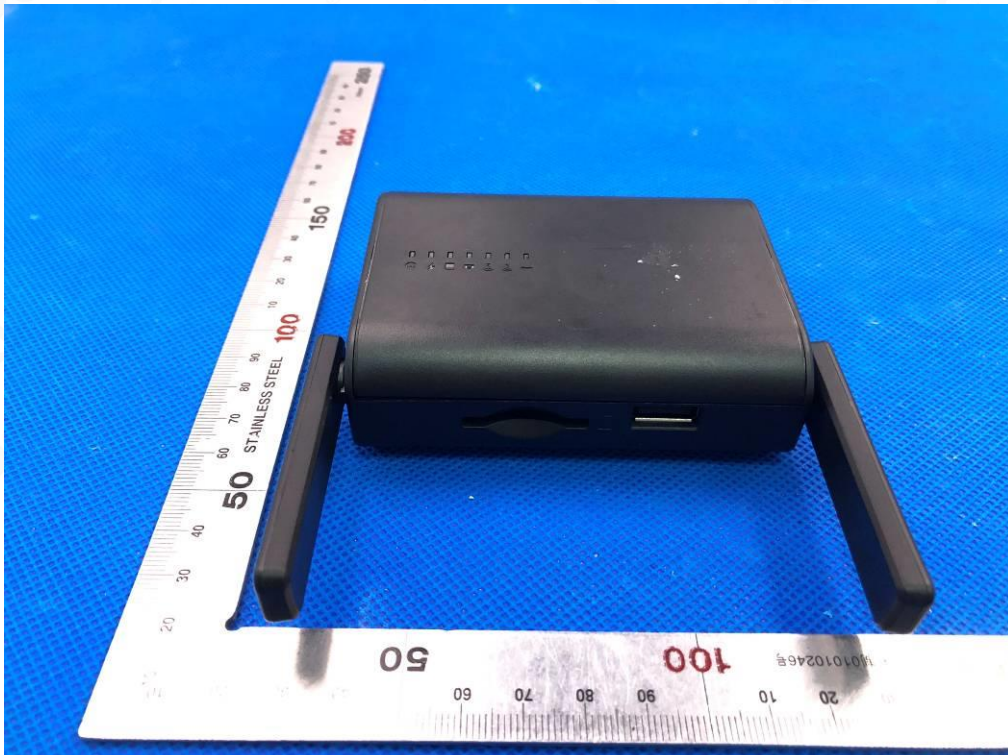
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FRONT VIEW OF EUT



BACK VIEW OF EUT



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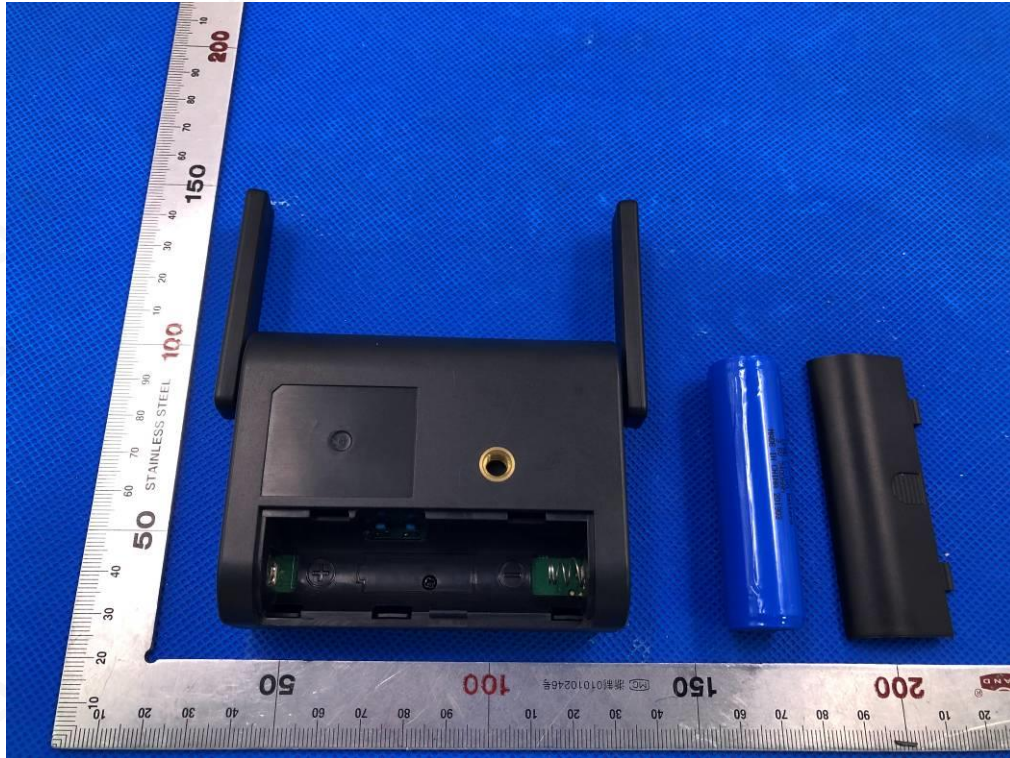
LEFT VIEW OF EUT



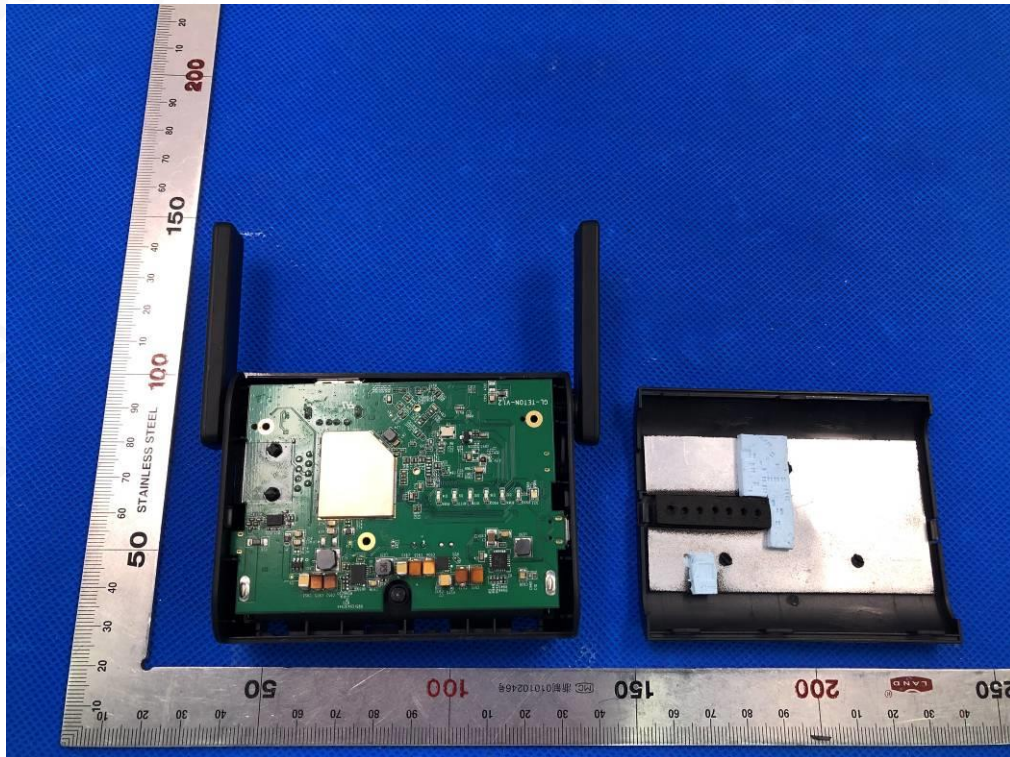
RIGHT VIEW OF EUT



OPEN VIEW OF EUT-1



OPEN VIEW OF EUT-2



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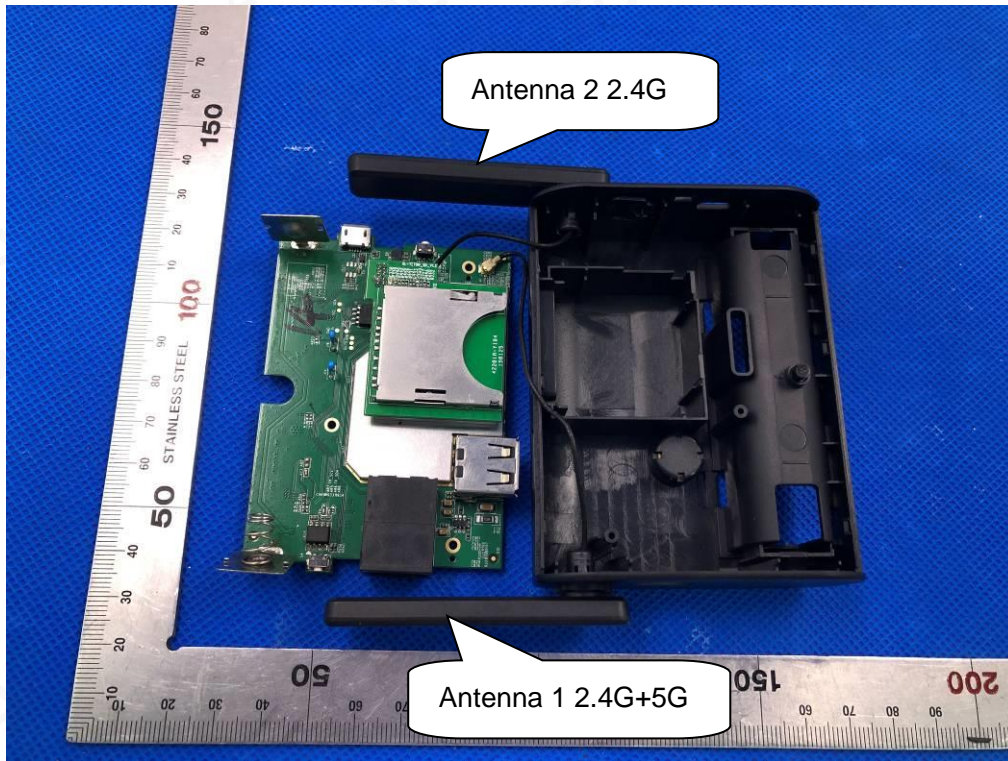
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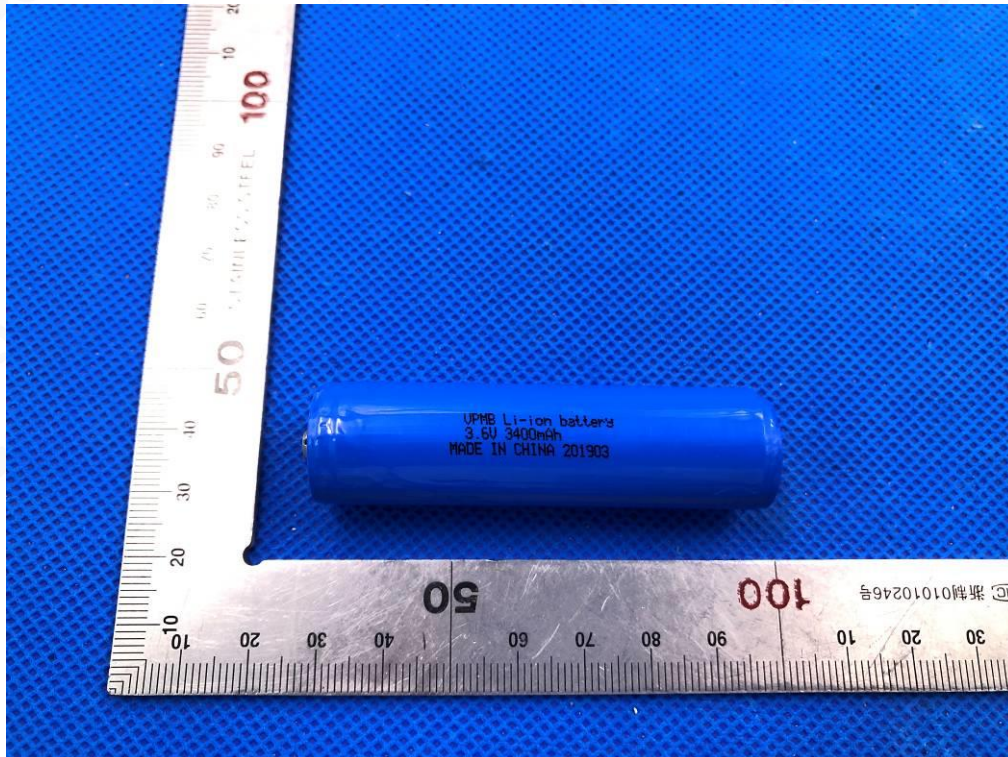
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OPEN VIEW OF EUT-3



VIEW OF BATTERY



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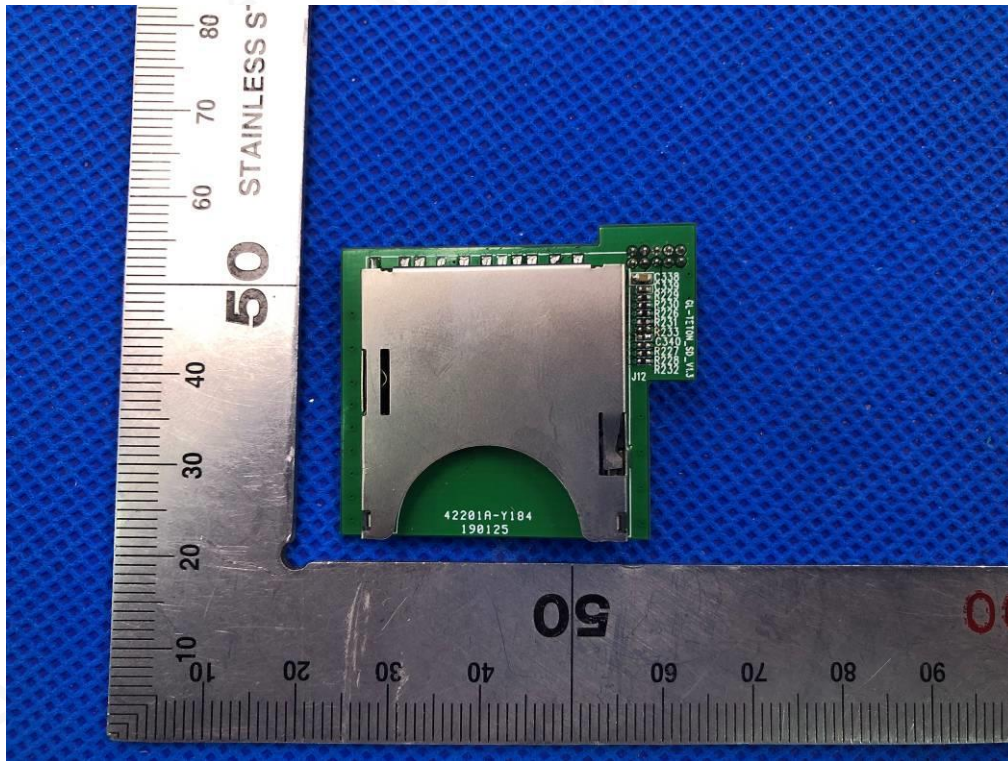
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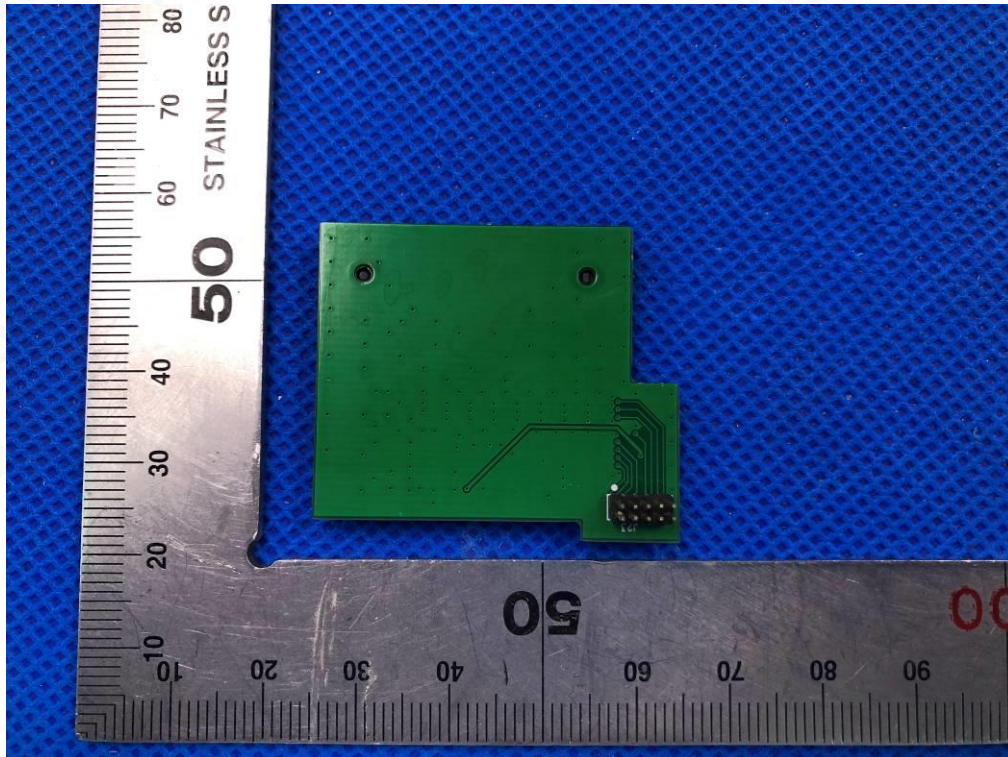
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INTERNAL VIEW OF EUT-1



INTERNAL VIEW OF EUT-2



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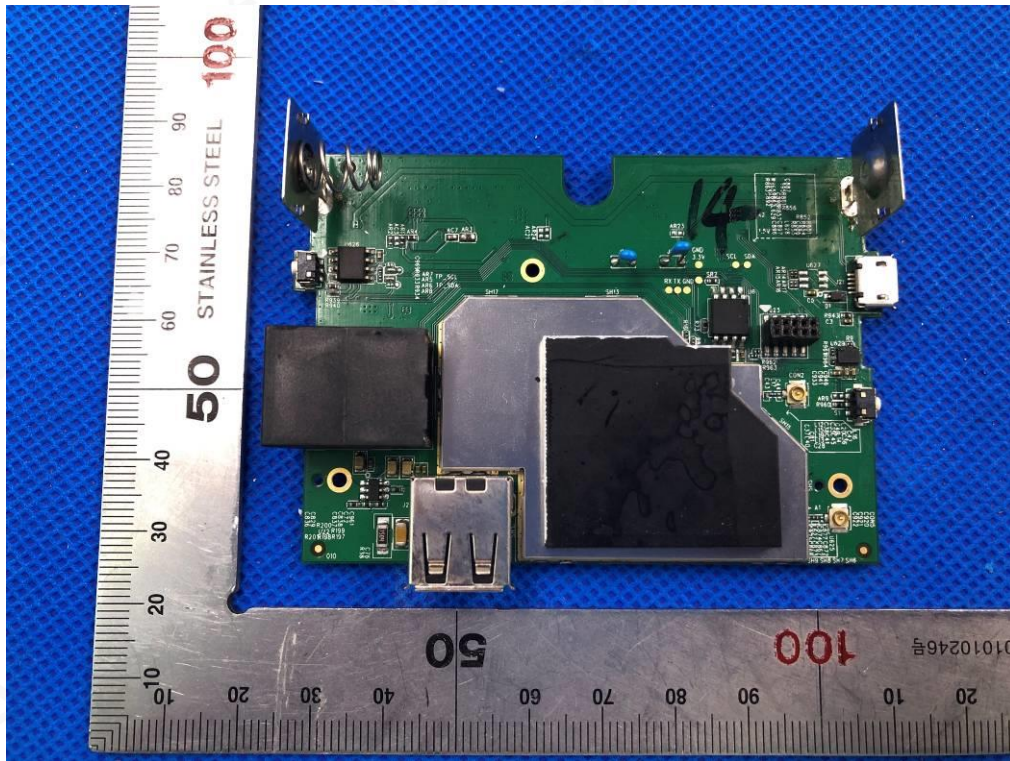
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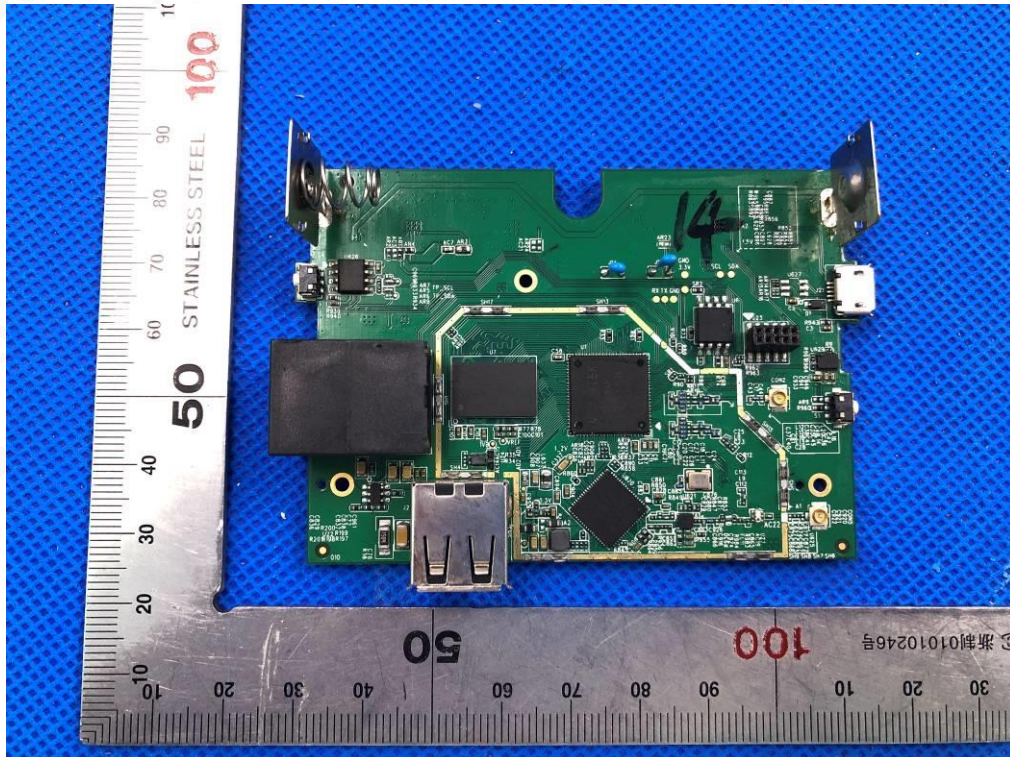
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INTERNAL VIEW OF EUT-3



INTERNAL VIEW OF EUT-4



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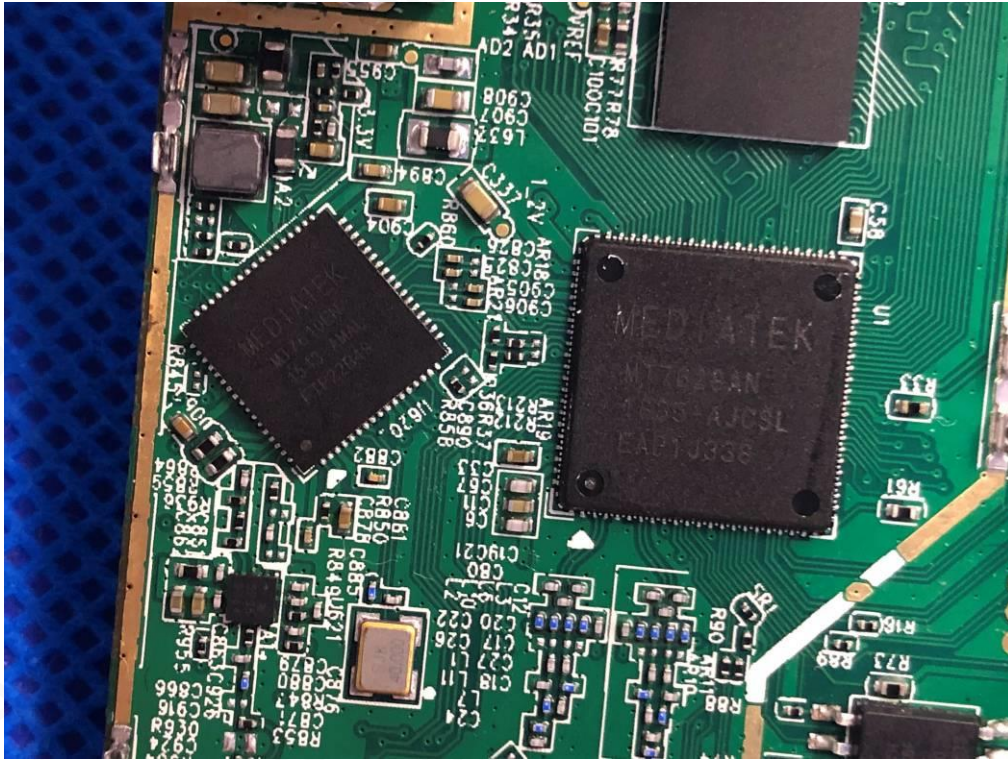
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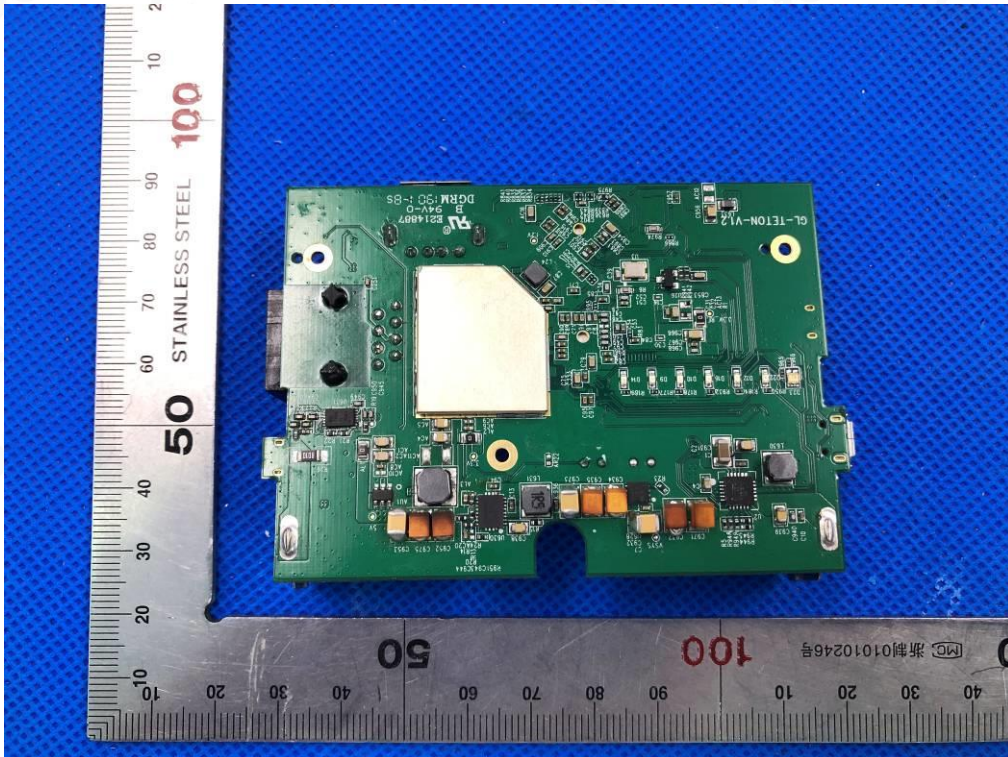
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INTERNAL VIEW OF EUT-5



INTERNAL VIEW OF EUT-6



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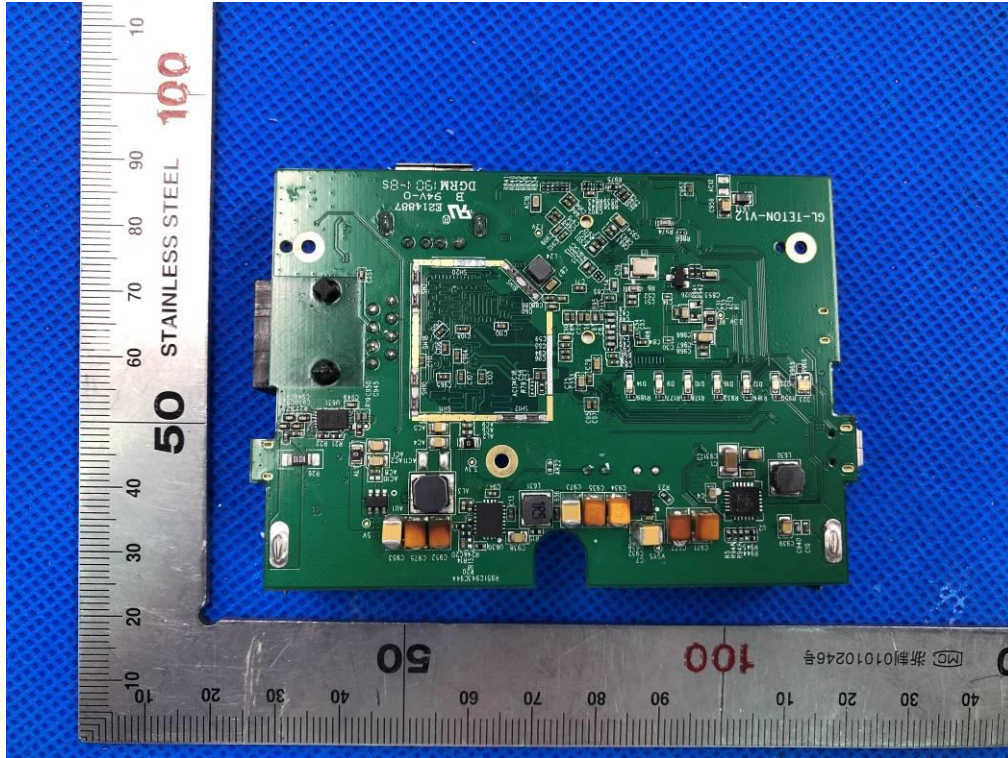
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INTERNAL VIEW OF EUT-7



-----END OF REPORT-----



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