

EUT	BLUETOOTH WIRELESS GAMEPAD	Model Name	STK-7007F
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Horizontal

PK



AV



RESULT: PASS



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Note: The factor had been edited in the “Input Correction” of the Spectrum Analyzer. So the Amplitude of test plots is equal to Reading level plus the Factor in dB. Use the A dB(μV) to represent the Amplitude. Use the F dB(μV/m) to represent the Field Strength. So A=F.



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12. FCC LINE CONDUCTED EMISSION TEST

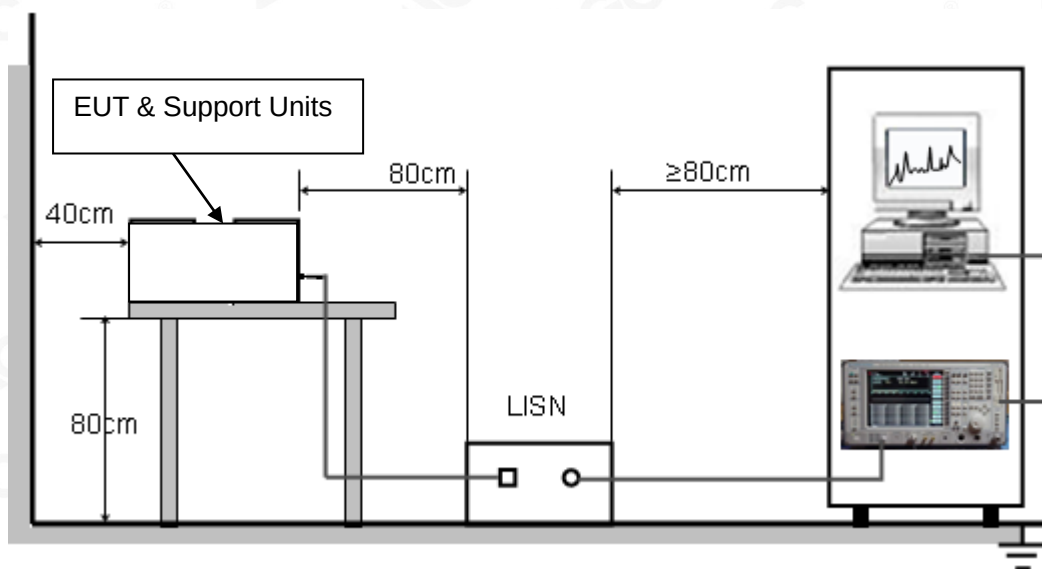
12.1. LIMITS OF LINE CONDUCTED EMISSION TEST

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.

12.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST



12.3. 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 DC charging voltage by PC which received AC120V/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.

12.4. 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 -2dB 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.



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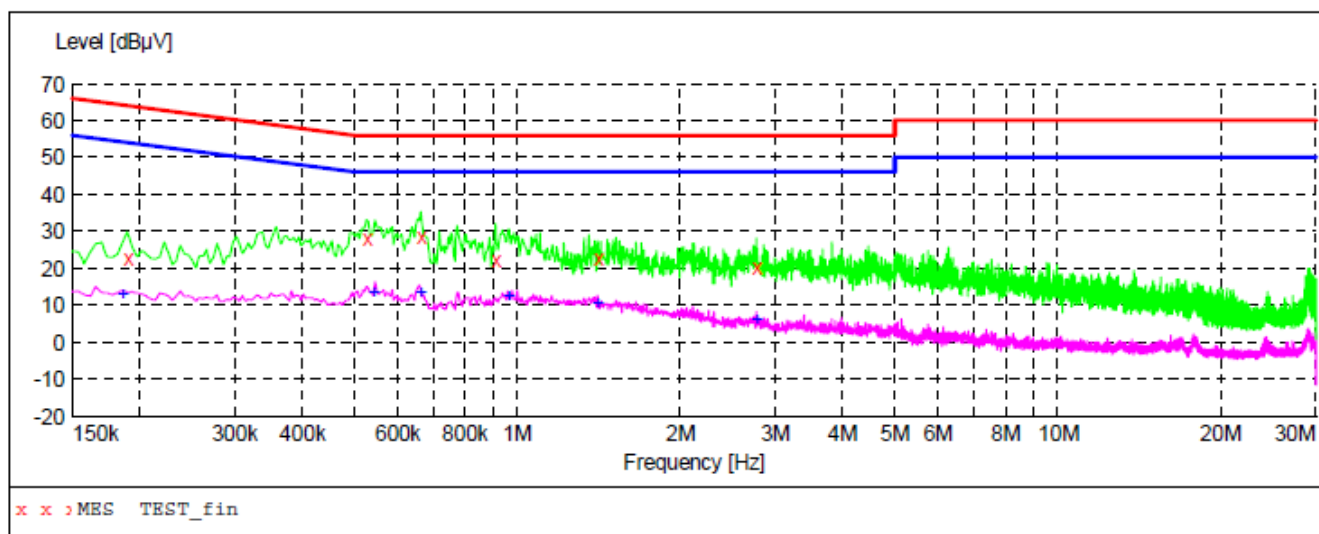
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12.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

Line Conducted Emission Test Line 1-L



MEASUREMENT RESULT: "TEST_fin"

5/23/2019 10:21AM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.190000	22.70	10.9	64	41.3	QP	L1	FLO
0.526000	28.40	11.1	56	27.6	QP	L1	FLO
0.662000	28.80	10.5	56	27.2	QP	L1	FLO
0.910000	22.00	11.1	56	34.0	QP	L1	FLO
1.406000	22.60	11.5	56	33.4	QP	L1	FLO
2.762000	20.40	11.5	56	35.6	QP	L1	FLO

MEASUREMENT RESULT: "TEST_fin2"

5/23/2019 10:21AM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.186000	12.90	10.9	54	41.3	AV	L1	FLO
0.542000	13.30	11.0	46	32.7	AV	L1	FLO
0.662000	13.60	10.5	46	32.4	AV	L1	FLO
0.962000	12.50	11.3	46	33.5	AV	L1	FLO
1.406000	10.30	11.5	46	35.7	AV	L1	FLO
2.762000	6.00	11.5	46	40.0	AV	L1	FLO



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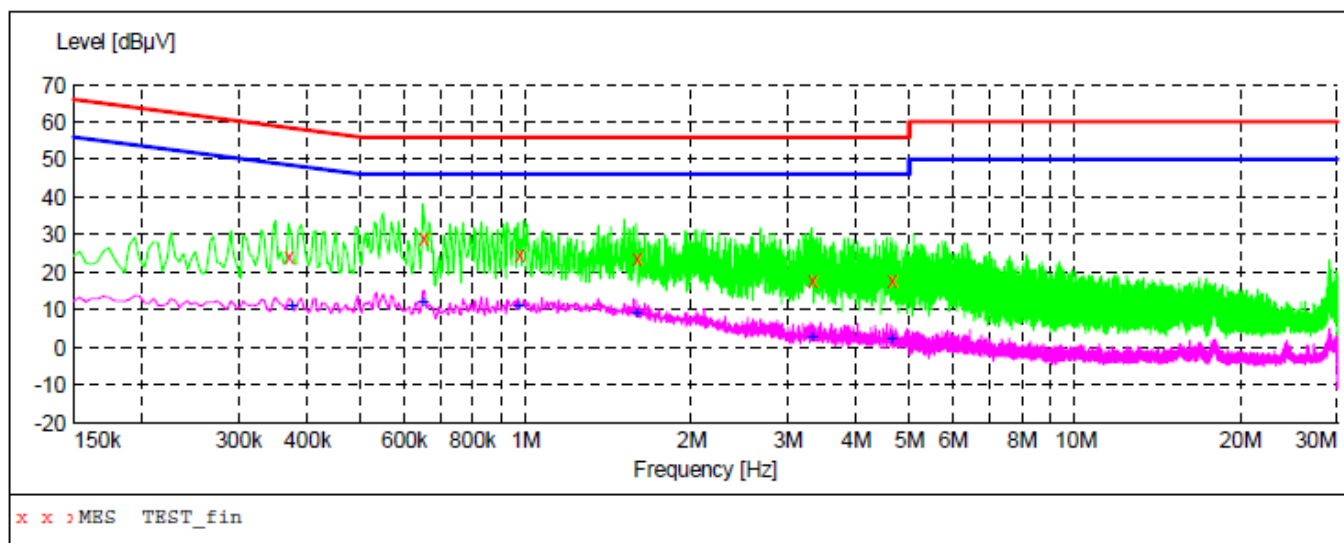
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Line Conducted Emission Test Line 2-N



MEASUREMENT RESULT: "TEST_fin"

5/23/2019 10:25AM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.370000	24.30	10.5	59	34.2	QP	N	FLO
0.650000	29.00	10.5	56	27.0	QP	N	FLO
0.970000	24.90	11.3	56	31.1	QP	N	FLO
1.590000	23.90	11.5	56	32.1	QP	N	FLO
3.318000	17.70	11.6	56	38.3	QP	N	FLO
4.626000	17.80	11.6	56	38.2	QP	N	FLO

MEASUREMENT RESULT: "TEST_fin2"

5/23/2019 10:25AM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.374000	11.00	10.4	48	37.4	AV	N	FLO
0.650000	12.10	10.5	46	33.9	AV	N	FLO
0.970000	11.10	11.3	46	34.9	AV	N	FLO
1.590000	9.30	11.5	46	36.7	AV	N	FLO
3.318000	2.50	11.6	46	43.5	AV	N	FLO
4.626000	2.10	11.6	46	43.9	AV	N	FLO

RESULT: PASS

Note: All the test modes had been tested, the mode 2 was the worst case. Only the data of the worst case would be record in this test report.



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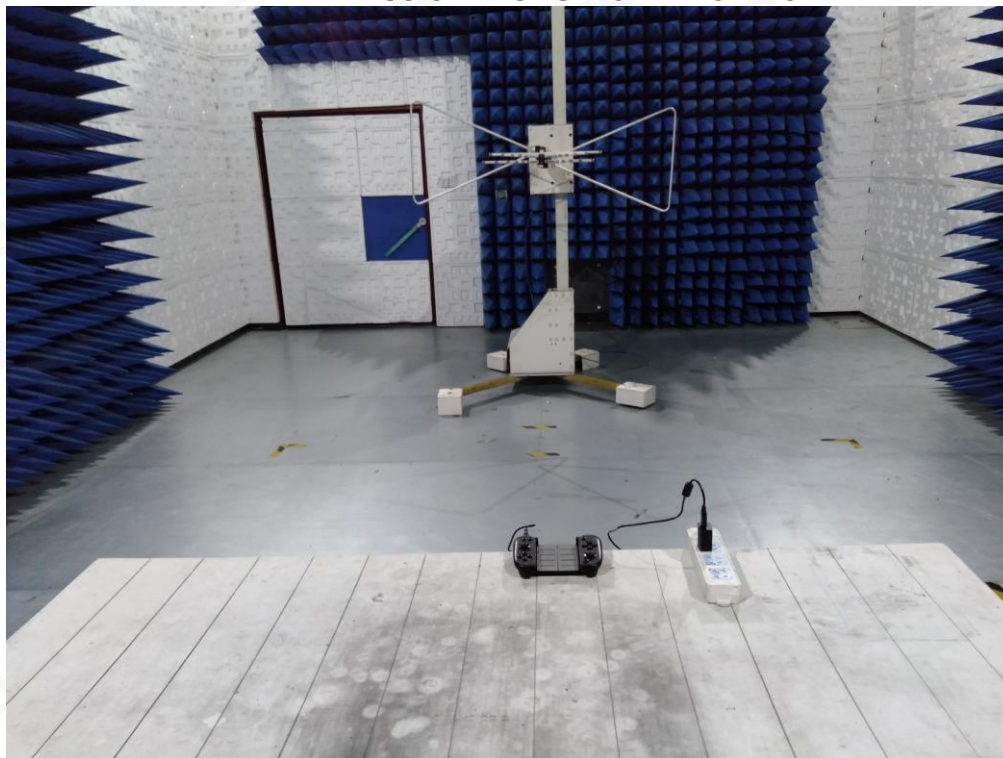
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APPENDIX A: PHOTOGRAPHS OF TEST SETUP
RADIATED EMISSION TEST SETUP BELOW 1GHZ



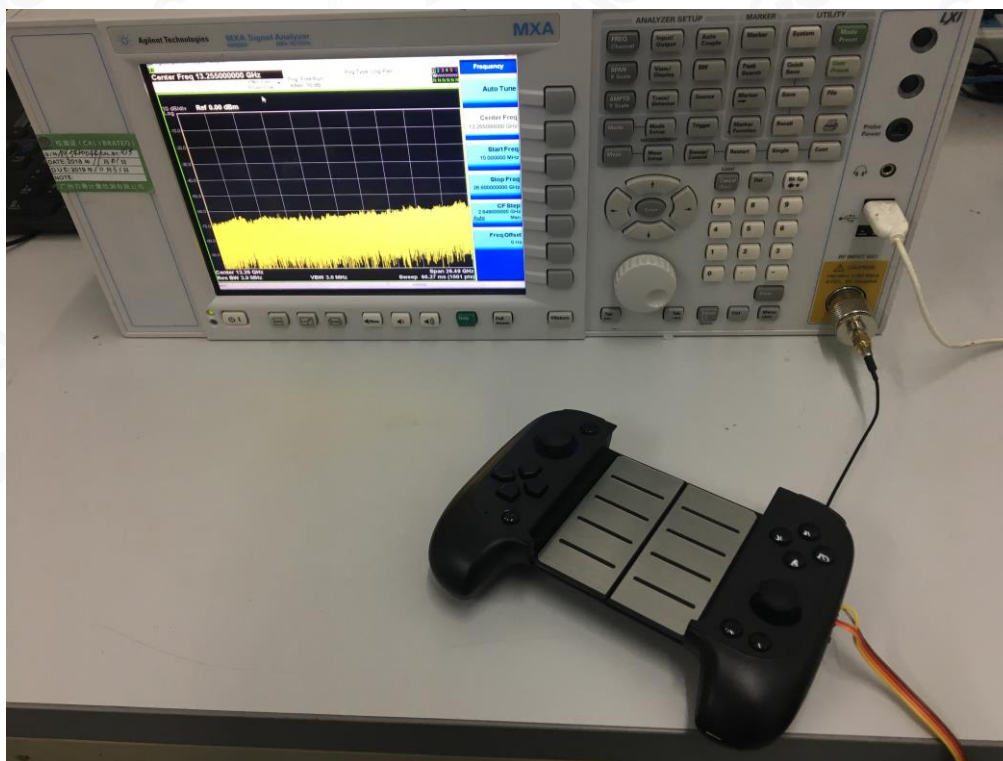
RADIATED EMISSION TEST SETUP ABOVE 1GHZ



CONDUCTED EMISSION TEST SETUP



CONDUCTED TEST SETUP



APPENDIX B: 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



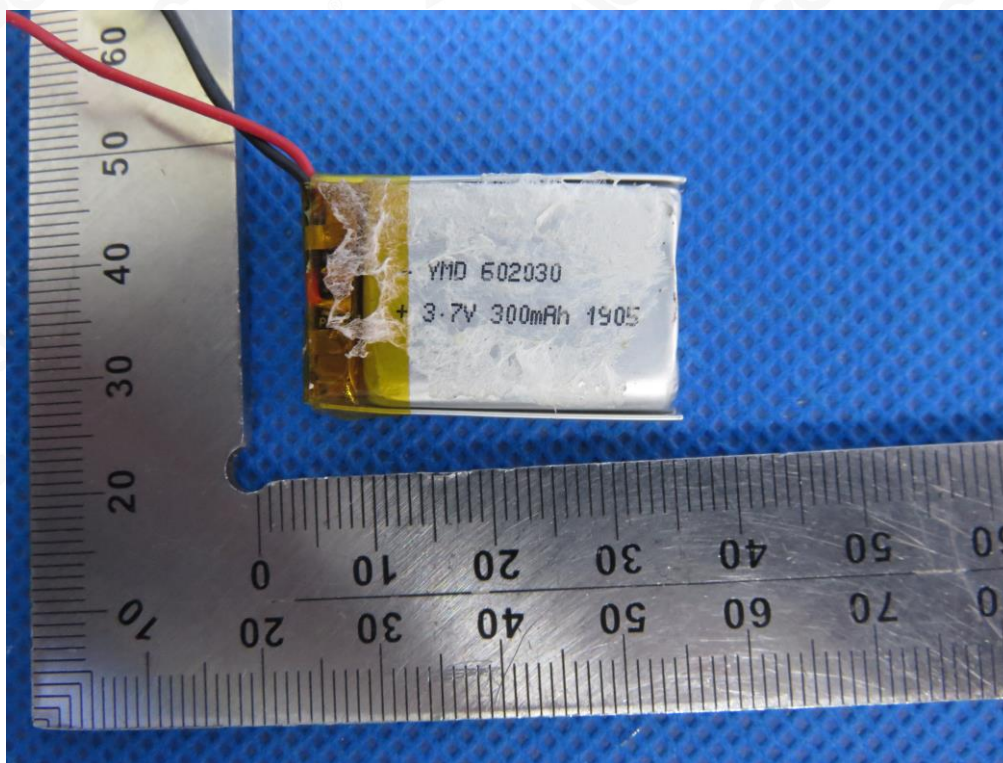
VIEW OF EUT (PORT)



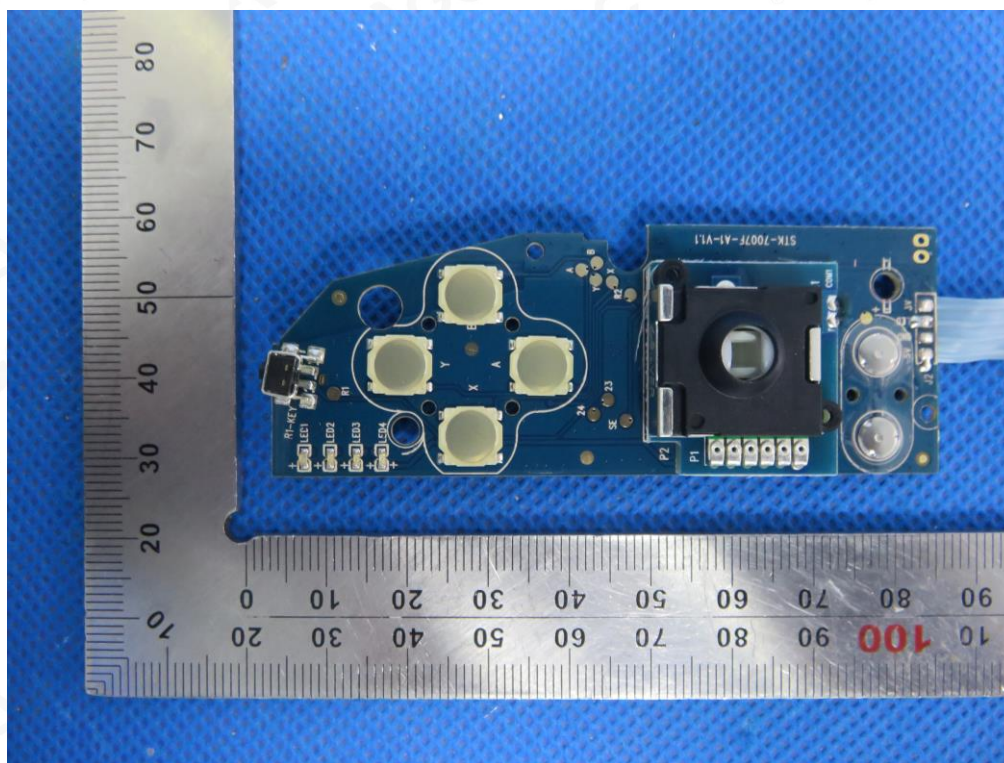
OPEN VIEW OF EUT



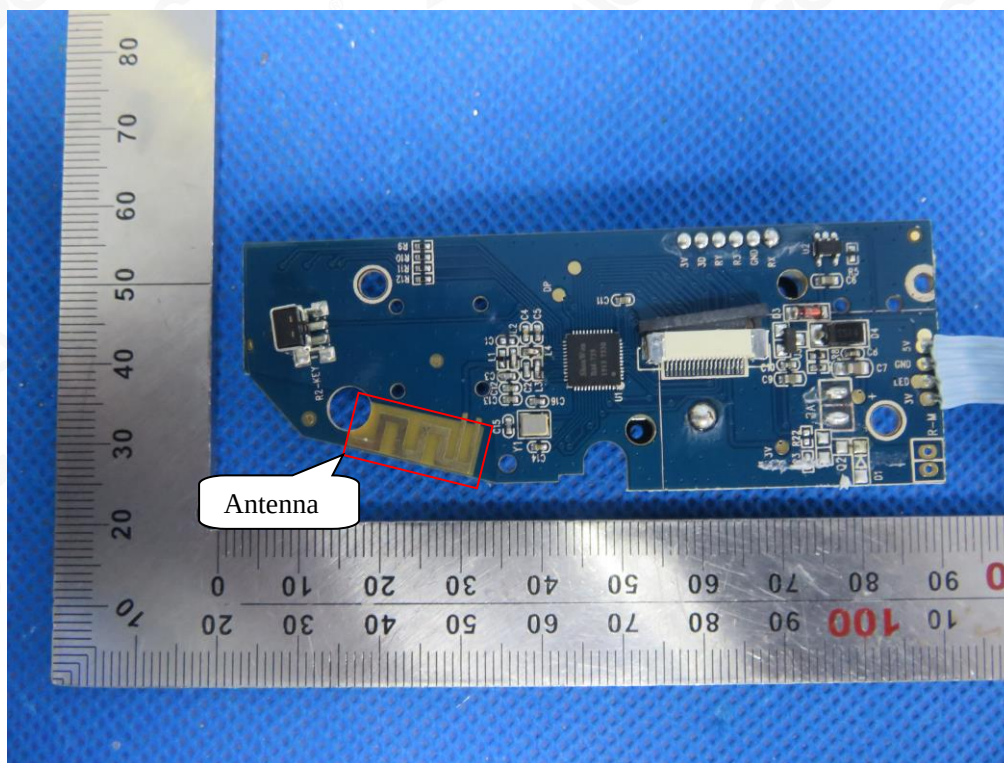
VIEW OF BATTERY



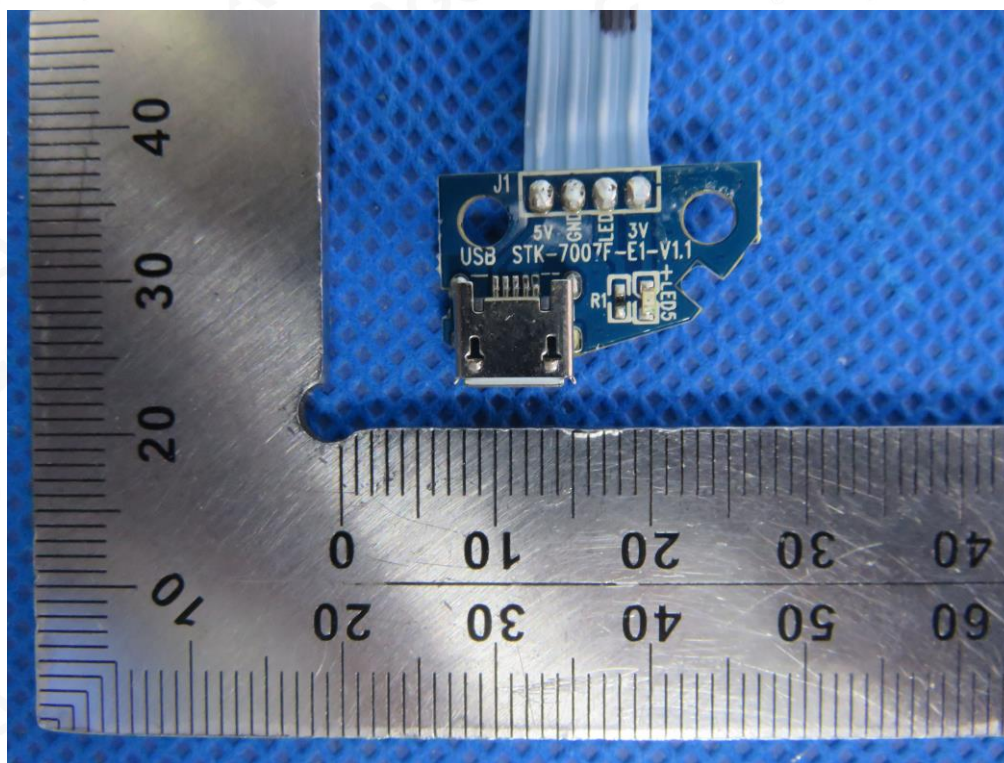
INTERNAL VIEW OF EUT-1



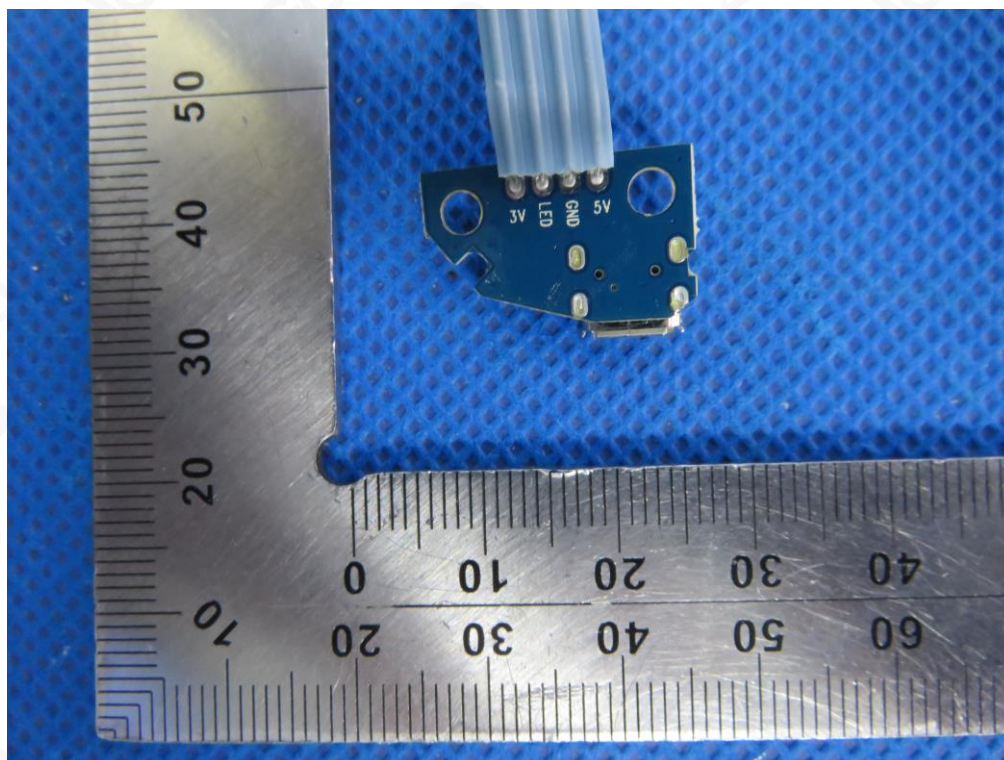
INTERNAL VIEW OF EUT-2



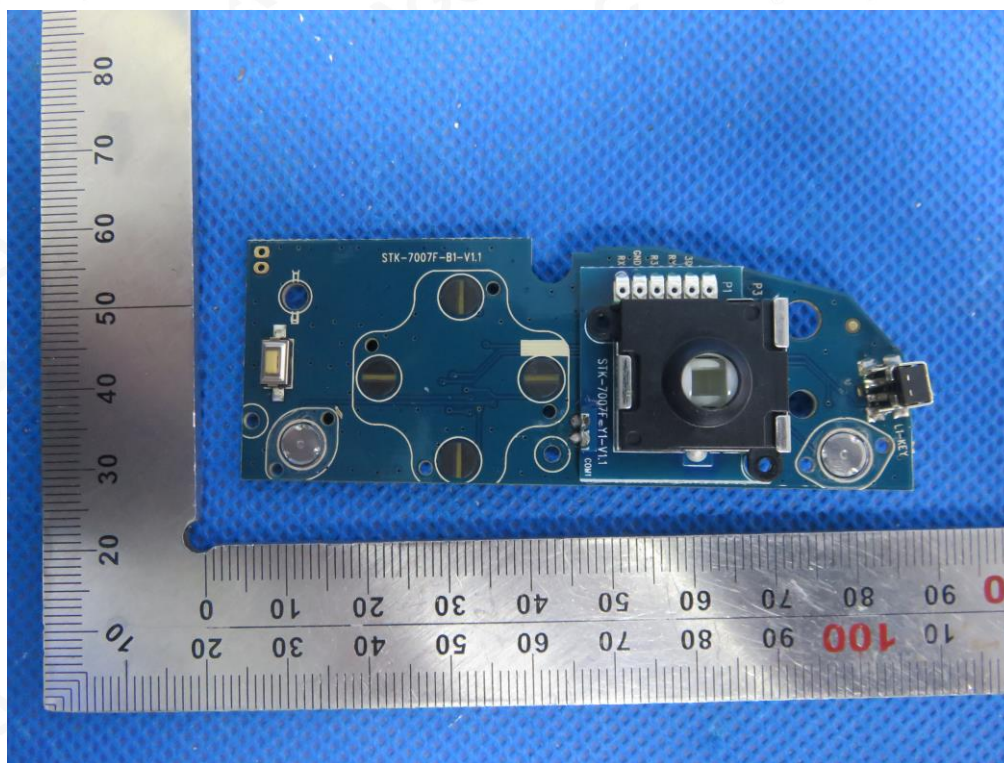
INTERNAL VIEW OF EUT-3



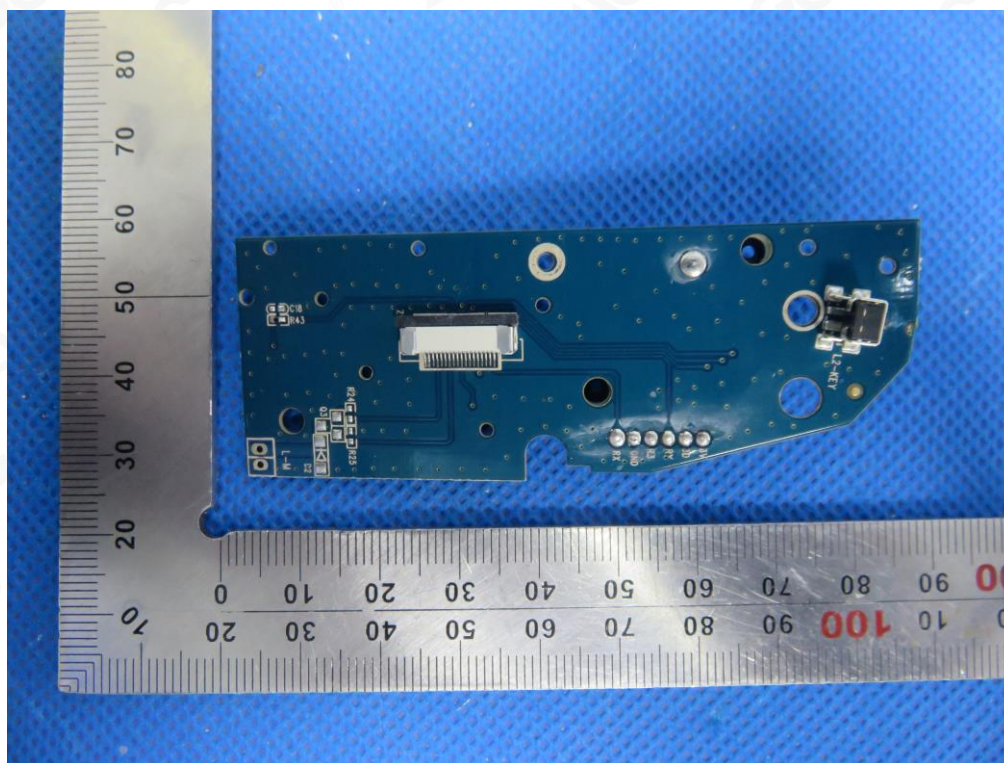
INTERNAL VIEW OF EUT-4



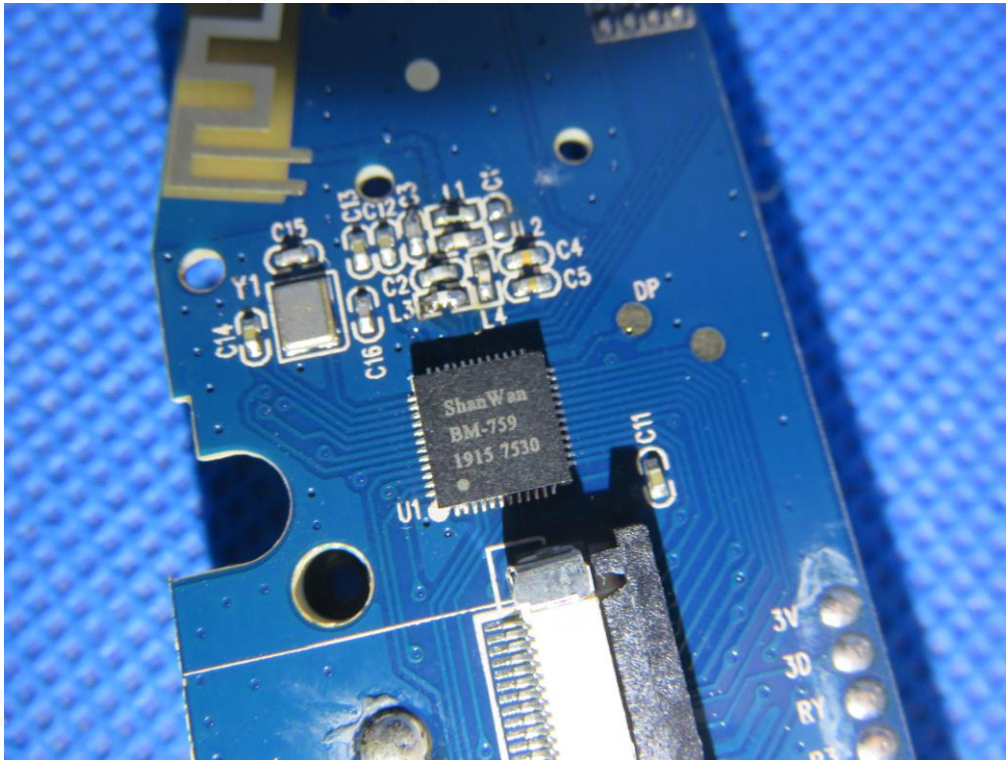
INTERNAL VIEW OF EUT-5



INTERNAL VIEW OF EUT-6



INTERNAL VIEW OF EUT-7



----END OF REPORT----