Page 56 of 90

RADIATED EMISSION ABOVE 1GHZ

EUT	2.4G Camera	Model Name	WJ11
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2412MHZ	Antenna	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type		
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type		
4824.064	44.68	3.72	48.4	74	-25.6	peak		
4824.093	39.08	3.72	42.8	54	-11.2	AVG		
7236.102	42.28	8.15	50.43	74	-23.57	peak		
7236.106	36.51	8.15	44.66	54	-9.34	AVG		
Remark:								
actor = Ante	enna Factor + C	able Loss – P	re-amplifier.					

EUT	2.4G Camera	Model Name	WJ11
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1	Antenna	Vertical

2412MHZ

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type		
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type		
4824.073	44.23	3.72	47.95	74	-26.05	peak		
4824.11	39.68	3.72	43.4	54	-10.6	AVG		
7236.071	42.55	8.15	50.7	74	-23.3	peak		
7236.055	37.94	8.15	46.09	54	-7.91	AVG		
Remark:	<u>l</u>		•			1		
Factor = Ante	enna Factor + Ca	able Loss – F	Pre-amplifier.					

Page 57 of 90

EUT	2.4G Camera	Model Name	WJ11
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2437MHZ	Antenna	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type		
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type		
4874.063	47.17	3.75	50.92	74	-23.08	peak		
4874.045	42.28	3.75	46.03	54	-7.97	AVG		
7311.096	41.46	8.16	49.62	74	-24.38	peak		
7311.109	37.87	8.16	46.03	54	-7.97	AVG		
Remark:	Remark:							
Factor = Ante	actor = Antenna Factor + Cable Loss – Pre-amplifier.							

EUT	2.4G Camera	Model Name	WJ11
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2437MHZ	Antenna	Vertical

Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
46.52	3.75	50.27	74	-23.73	peak
40.33	3.75	44.08	54	-9.92	AVG
43.22	8.16	51.38	74	-22.62	peak
39.18	8.16	47.34	54	-6.66	AVG
	46.52 40.33 43.22 39.18	46.52 3.75 40.33 3.75 43.22 8.16 39.18 8.16	46.52 3.75 50.27 40.33 3.75 44.08 43.22 8.16 51.38	46.52 3.75 50.27 74 40.33 3.75 44.08 54 43.22 8.16 51.38 74 39.18 8.16 47.34 54	46.52 3.75 50.27 74 -23.73 40.33 3.75 44.08 54 -9.92 43.22 8.16 51.38 74 -22.62 39.18 8.16 47.34 54 -6.66

Page 58 of 90

EUT	2.4G Camera	Model Name	WJ11
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2462MHZ	Antenna	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type		
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type		
4924.063	43.24	3.81	47.05	74	-26.95	peak		
4924.04	40.52	3.81	44.33	54	-9.67	AVG		
7386.119	40.77	8.19	48.96	74	-25.04	peak		
7386.061	36.62	8.19	44.81	54	-9.19	AVG		
Remark:								
Factor = Ante	Factor = Antenna Factor + Cable Loss – Pre-amplifier.							

EUT	2.4G Camera	Model Name	WJ11
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2462MHZ	Antenna	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type		
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type		
4924.023	44.25	3.81	48.06	74	-25.94	peak		
4924.051	39.43	3.81	43.24	54	-10.76	AVG		
7386.062	38.52	8.19	46.71	74	-27.29	peak		
7386.093	37.63	8.19	45.82	54	-8.18	AVG		
Remark:								
Factor = Ante	enna Factor + Ca	able Loss – I	Pre-amplifier.					

RESULT: PASS

Note:

Other emissions from 1G to 25 GHz are considered as ambient noise. No recording in the test report. Factor = Antenna Factor + Cable loss - Amplifier gain, Over=Measure-Limit.

The "Factor" value can be calculated automatically by software of measurement system.

All test modes had been pre-tested. The 802.11b mode is the worst case and recorded in the report.

Page 59 of 90

12. BAND EDGE EMISSION

12.1. MEASUREMENT PROCEDURE

Radiated restricted band edge measurements

The radiated restricted band edge measurements are measured with an EMI test receiver connected to the receive antenna while the EUT is transmitting

12.2. TEST SET-UP

same as 11.2

Note:

- 1. Factor=Antenna Factor + Cable loss Amplifier gain. Field Strength=Factor + Reading level
- 2. 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(μ V) to represent the Amplitude. Use the F dB(μ V/m) to represent the Field Strength. So A=F.

12.3. TEST RESULT

EUT	2.4G Camera	Model Name	WJ11
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with data rate 1 2412MHZ	Antenna	Horizontal

PΚ



AV



EUT	2.4G Camera	Model Name	WJ11
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with data rate 1 2412MHZ	Antenna	Vertical



ΑV



EUT	2.4G Camera	Model Name	WJ11
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with data rate 1 2462MHZ	Antenna	Horizontal



ΑV



EUT	2.4G Camera	Model Name	WJ11
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with data rate 1 2462MHZ	Antenna	Vertical



ΑV



EUT	2.4G Camera	Model Name	WJ11
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11g with data rate 6 2412MHZ	Antenna	Horizontal



ΑV



EUT	2.4G Camera	Model Name	WJ11
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11g with data rate 6 2412MHZ	Antenna	Vertical



ΑV



EUT	2.4G Camera	Model Name	WJ11
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11g with data rate 6 2462MHZ	Antenna	Horizontal



ΑV



EUT	2.4G Camera	Model Name	WJ11
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11g with data rate 6 2462MHZ	Antenna	Vertical



ΑV



EUT	2.4G Camera	Model Name	WJ11
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n 20 with data rate 6.5 2412MHZ	Antenna	Horizontal



ΑV



EUT	2.4G Camera	Model Name	WJ11
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n 20 with data rate 6.5 2412MHZ	Antenna	Vertical



ΑV



EUT	2.4G Camera	Model Name	WJ11
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n 20 with data rate 6.5 2462MHZ	Antenna	Horizontal



ΑV



EUT	2.4G Camera	Model Name	WJ11
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n 20 with data rate 6.5 2462MHZ	Antenna	Vertical



ΑV



EUT	2.4G Camera	Model Name	WJ11
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n 40 with data rate 13.5 2422MHZ	Antenna	Horizontal



ΑV



EUT	2.4G Camera	Model Name	WJ11
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n 40 with data rate 13.5 2422MHZ	Antenna	Vertical



ΑV



EUT	2.4G Camera	Model Name	WJ11
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n 40with data rate 13.5 2452MHZ	Antenna	Horizontal



ΑV



EUT	2.4G Camera	Model Name	WJ11
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



ΑV



Page 76 of 90

13. FCC LINE CONDUCTED EMISSION TEST

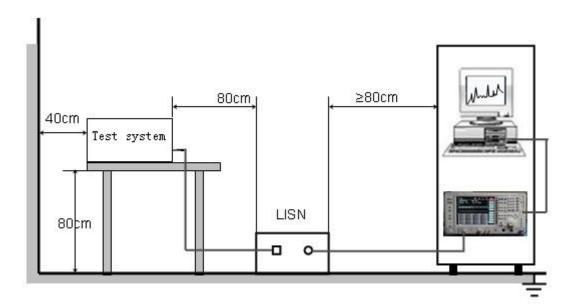
13.1. LIMITS OF LINE CONDUCTED EMISSION TEST

Eroguenou	Maximum R	F Line Voltage
Frequency	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 0.50MHz.

13.2. BLOCK DIAGRAM OF TEST SETUP



Page 77 of 90

13.3. PROCEDURE OF LINE CONDUCTED EMISSION TEST

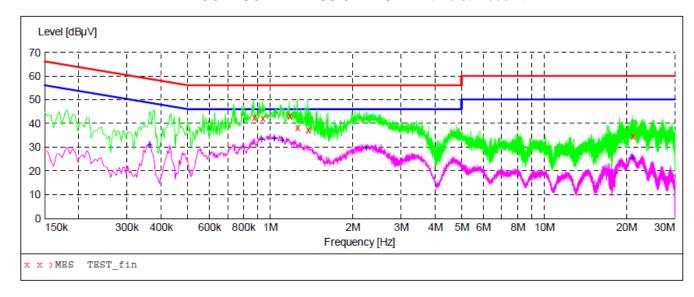
(1) The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10 (see Test Facility for the dimensions of the ground 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.

Page 78 of 90

13.4. TEST RESULT OF LINE CONDUCTED EMISSION TEST

LINE CONDUCTED EMISSION TEST-L1 (Worst Mode 4)



MEASUREMENT RESULT: "TEST fin"

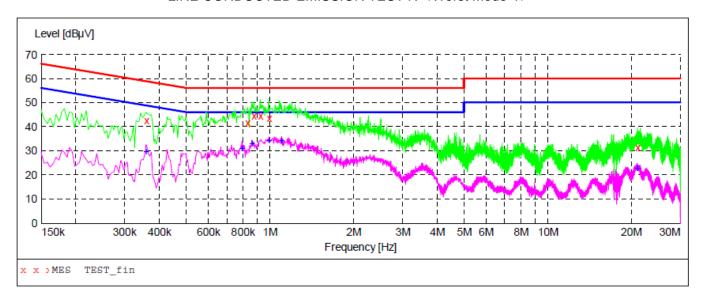
6/27/2019 8:	08PM						
Frequency	Level			_	Detector	Line	PE
MHz	dΒμV	dB	dΒμV	dB			
0.870000	42.40	11.0	56	13.6	OP	L1	FLO
0.938000	42.30	11.2	56	13.7	QP	L1	FLO
1.174000	43.20	11.5	56	12.8	QP	L1	FLO
1.254000	38.30	11.5	56	17.7	QP	L1	FLO
1.374000	37.40	11.5	56	18.6	QP	L1	FLO
21.006000	34.80	12.5	60	25.2	QP	L1	FLO

MEASUREMENT RESULT: "TEST fin2"

6/27/2019 8	:08PM						
Frequency	Level	Transd	Limit	Margin	Detector	Line	PE
MHz	dΒμV	dB	dΒμV	dB			
0.362000	31.00	10.5	49	17.7	AV	L1	FLO
0.930000	33.40	11.2	46	12.6	AV	L1	FLO
1.038000	33.80	11.4	46	12.2	AV	L1	FLO
1.106000	33.10	11.5	46	12.9	AV	L1	FLO
2.238000	29.60	11.5	46	16.4	AV	L1	FLO
20.946000	25.60	12.5	50	24.4	AV	L1	FLO

Page 79 of 90

LINE CONDUCTED EMISSION TEST-N (Worst Mode 4)



MEASUREMENT RESULT: "TEST fin"

6/27/2019 8:0 Frequency MHz	3PM Level dBμV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.358000 0.830000 0.874000 0.922000 0.990000 21.026000	42.50 41.60 44.50 44.40 43.50 31.40	10.5 10.9 11.0 11.2 11.4 12.5	59 56 56 56 56	16.3 14.4 11.5 11.6 12.5 28.6	QP QP QP QP QP OP	N N N N N	FLO FLO FLO FLO FLO

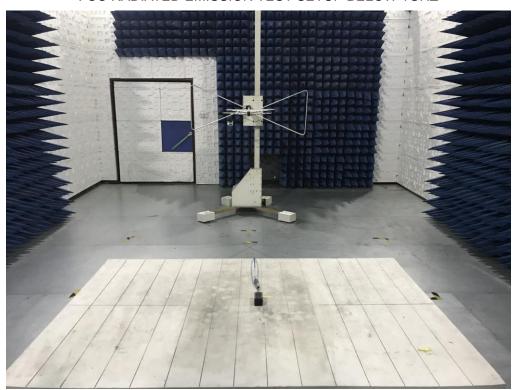
MEASUREMENT RESULT: "TEST_fin2"

6,	/27/2019 8:	03PM						
	Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
	0.358000	29.70	10.5	49	19.1	AV	N	FLO
	0.794000	31.10	10.7	46	14.9	AV	N	FLO
	0.862000	33.00	11.0	46	13.0	AV	N	FLO
	0.994000	34.30	11.4	46	11.7	AV	N	FLO
	1.102000	34.20	11.5	46	11.8	AV	N	FLO
	21.026000	23.00	12.5	5.0	27.0	AV	N	FLO

Page 80 of 90

APPENDIX A: PHOTOGRAPHS OF TEST SETUP

FCC RADIATED EMISSION TEST SETUP BELOW 1GHZ



FCC RADIATED EMISSION TEST SETUP ABOVE 1GHZ



Report No.: AGC00703190601FE05 Page 81 of 90

FCC CONDUCTED EMISSION TEST SETUP



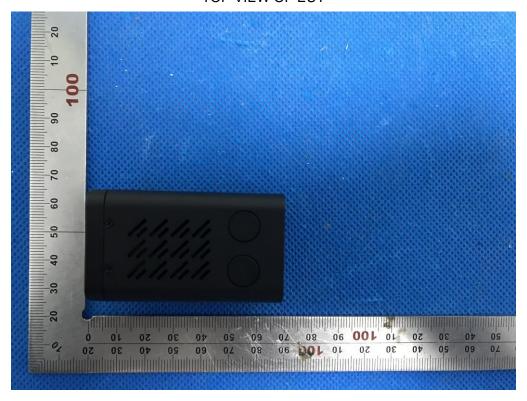
Page 82 of 90

APPENDIX B: PHOTOGRAPHS OF EUT

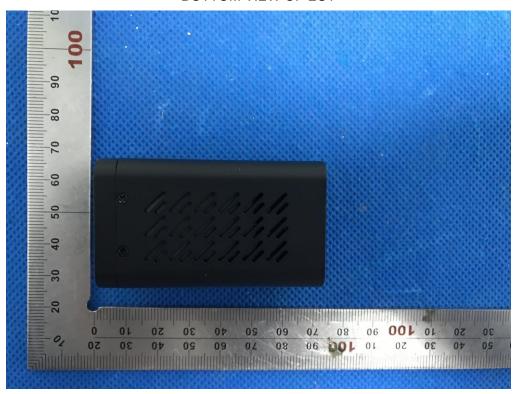
ALL VIEW OF EUT



TOP VIEW OF EUT



BOTTOM VIEW OF EUT



FRONT VIEW OF EUT

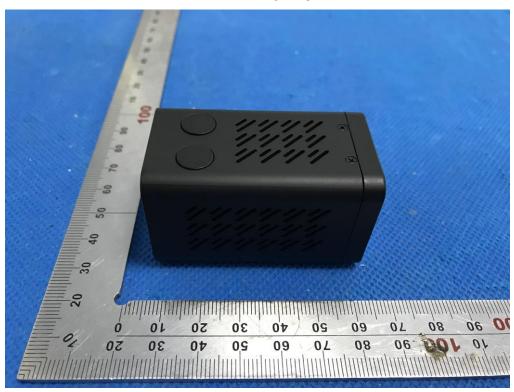


Page 84 of 90

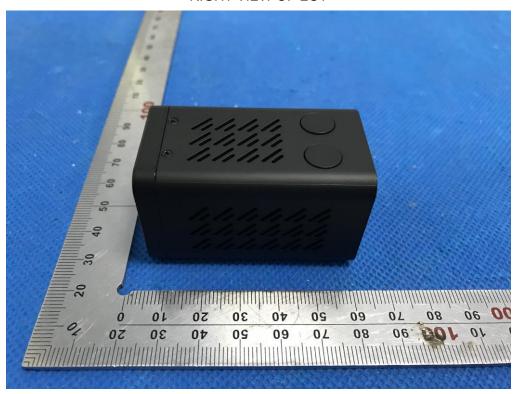
BACK VIEW OF EUT



LEFT VIEW OF EUT



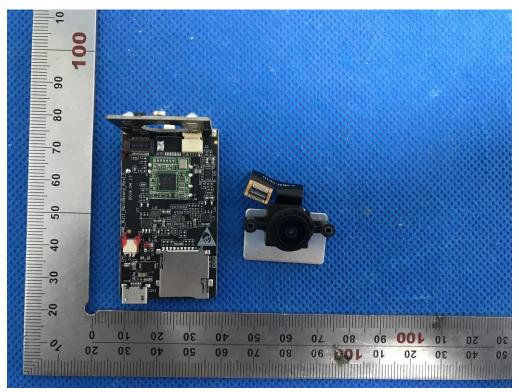
RIGHT VIEW OF EUT



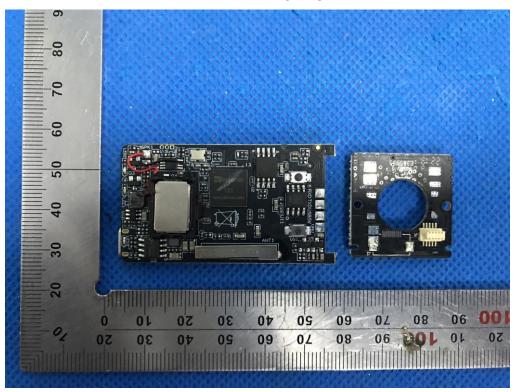
OPEN VIEW OF EUT



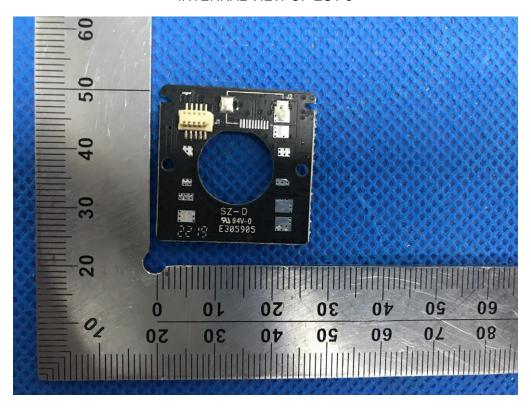
INTERNAL VIEW OF EUT-1



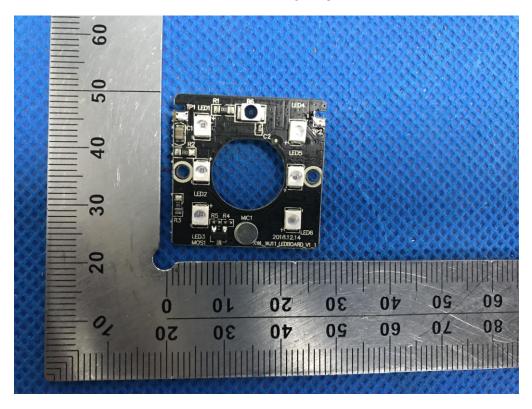
INTERNAL VIEW OF EUT-2



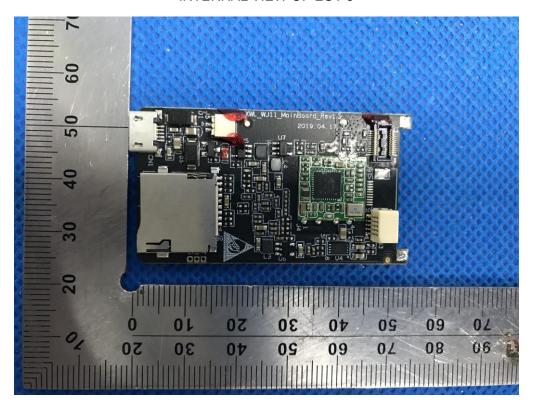
INTERNAL VIEW OF EUT-3



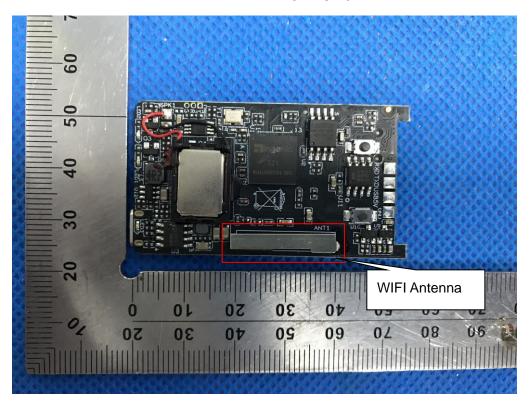
INTERNAL VIEW OF EUT-4



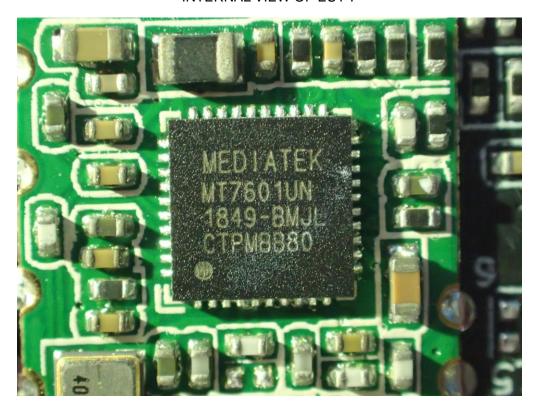
INTERNAL VIEW OF EUT-5



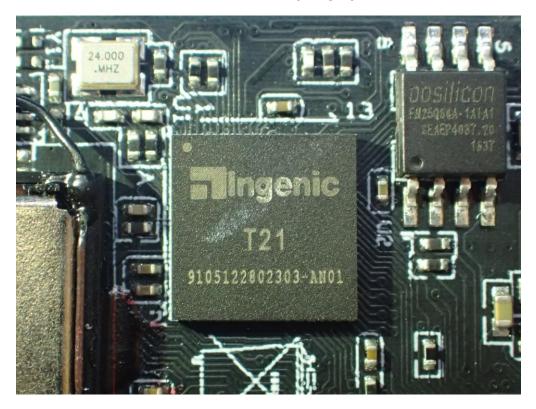
INTERNAL VIEW OF EUT-6



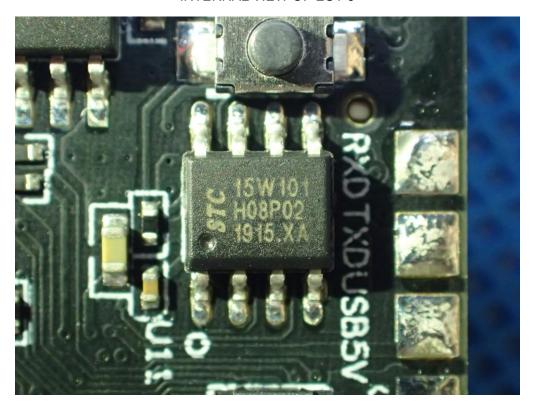
INTERNAL VIEW OF EUT-7



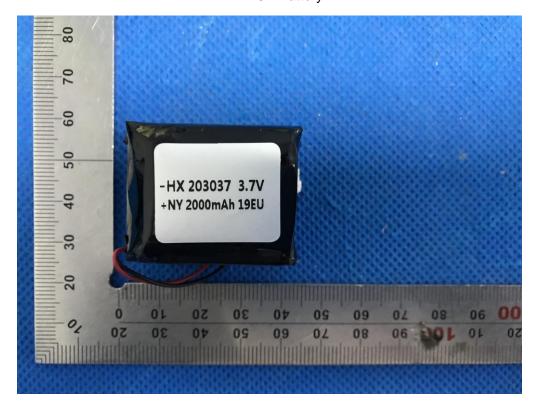
INTERNAL VIEW OF EUT-8



INTERNAL VIEW OF EUT-9



VIEW OF Battery



----END OF REPORT----