

FCC Report

Application Purpose : Original grant
Applicant Name: : Shenzhen TYX Technology Co., Ltd.
FCC ID : 2ANNT-T6
Equipment Type : Air Mouse
Model Name : T6
Report Number : FCC17060799A
Standard(S) : FCC Part 15 Subpart C Section 15.249
Date Of Receipt : June 11, 2017
Date Of Issue : June 29, 2017

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District, Shenzhen, 518000
Registration Number: 588523

REPORT REVISE RECORD

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	June 29,2017	Valid	Original Report

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1. GENERAL INFORMATION

GENERAL DESCRIPTION OF EUT

Equipment Type	Air Mouse
Test Model	T6
Brand Name	N/A
Applicant	Shenzhen TYX Technology Co., Ltd.
Address	601, Building-A1, TONG FU YU Park, Lezhujiao, Xixiang Street, Bao'an, Shenzhen 518102 China
Manufacturer	Shenzhen TYX Technology Co., Ltd.
Address	601, Building-A1, TONG FU YU Park, Lezhujiao, Xixiang Street, Bao'an, Shenzhen 518102 China
Hardware version:	TYX-T6-01
Software version:	TYX-T6-V1.2
Operating Voltage	Li-Polymer Battery : BL-5B Voltage: 3.7V Capacity: 300mAh Limited Charge Voltage: 4.2V
Operating Frequency	2404-2480MHz
Channels	65
Modulation Type	GFSK
Antenna Type:	PCB Antenna
Antenna gain:	-3.0dBi
Date of receipt	June 11, 2017
Date of test	June 29, 2017
Deviation	None
Condition of Test Sample	Normal

We hereby certify that:

The above equipment was tested by QTC Certification & Testing Co., Ltd.

2nd Floor, B1 Building, Fengyeyuan Industrial Plant, Liuxian 2st. Road, Xin'an Street, Bao'an District, Shenzhen, 518000

Registration Number: 588523

The data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C 63.10:2013. The sample tested as described in this report is in compliance with the FCC Rules Part 15 Subpart C.

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

2. TEST DESCRIPTION

2.1 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately **95** %.

No.	Item	Uncertainty
1	Conducted Emission Test	$\pm 3.2\text{dB}$
2	RF power, conducted	$\pm 0.16\text{dB}$
3	Spurious emissions, conducted	$\pm 0.21\text{dB}$
4	All emissions, radiated(<1G)	$\pm 4.7\text{dB}$
5	All emissions, radiated(>1G)	$\pm 4.7\text{dB}$
6	Temperature	$\pm 0.5^\circ\text{C}$
7	Humidity	$\pm 2\%$

2.2 DESCRIPTION OF TEST MODES

The system was configured for testing in engineering mode, which was provided by the manufacturer. The engineering mode was configured under maximum power output and switched the channels by keys.

8 channels were provided by the manufacturer.

Channel List					
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	2404	23	2429	45	2457
02	2405	24	2430	46	2458
03	2406	25	2434	47	2459
04	2407	26	2435	48	2460
05	2408	27	2436	49	2461
06	2409	28	2437	50	2462
07	2410	29	2438	51	2466
08	2411	30	2439	52	2467
09	2412	31	2440	53	2468
10	2413	32	2441	54	2469
11	2414	33	2442	55	2470
12	2418	34	2443	56	2471
13	2419	35	2444	57	2472
14	2420	36	2445	58	2473
15	2421	37	2446	59	2474
16	2422	38	2450	60	2475
17	2423	39	2451	61	2476
18	2424	40	2452	62	2477
19	2425	41	2453	63	2478
20	2426	42	2454	64	2479
21	2427	43	2455	65	2480
22	2428	44	2456		

Test Mode List		
Test Mode	Description	Remark
TM1	Low Channel	2404MHz
TM2	Middle Channel	2440MHz
TM3	High Channel	2480MHz

Note:

- (1) *The measurements are performed at the highest, middle, lowest available channels.*
- (2) *Record the worst case of each test item in this report.*

2.3 CONFIGURATION OF SYSTEM UNDER TEST

EUT

(EUT: Air Mouse)

2.4 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Model No.	ID or Specification	Remark
1	/	/	/	/

Note:

- (1) *All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.*
- (2) *Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.*

3. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part15 (15.247) , Subpart C			
Standard Section	Test Item	Judgment	Remark
§15.203	Antenna Requirement	PASS	
§15.207	Conducted Emission	PASS	
§15.249 (a)	Field Strength of Fundamental	PASS	
§15.249 (a) (d)/ §15.209	Spurious Emissions	PASS	
§15.249 (d)/ §15.205	Band Edge	PASS	
§15.215 (c)	20dB Occupied Bandwidth	PASS	

Note:

1. *Pass: Test item meets the requirement.*
2. *Fail: Test item does not meet the requirement.*
3. *N/A: Test case does not apply to the test object.*
4. *The test result judgment is decided by the limit of test standard.*

4. MEASUREMENT INSTRUMENTS

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibrated	Calibrated until
EMI Test Receiver	R&S	ESCI	100005	2016-08-19	2017-08-18
LISN	Mestec	AN3016	04/10040	2016-08-19	2017-08-18
Coaxial cable	Megalon	LMR400	C001	2016-08-19	2017-08-18
System Controller	CT	SC100	011208	2016-08-19	2017-08-18
Bi-log Antenna	SUNOL Sciences	JB3	A021907	2016-09-13	2017-09-12
Spectrum Analyzer	R&S	FSU	100114	2016-08-19	2017-08-18
Horn Antenna	SCHWARZBECK	9120D	1141	2016-08-19	2017-08-18
Loop Antenna	EMCO	6502	00042960	2016-08-19	2017-08-18
Pre Amplifier	H.P.	HP8447E	2945A02715	2016-10-13	2017-10-12
Pre-Amplifier	CDSI	PAP-1G18-38	7621	2016-10-13	2017-10-12
9*6*6 Anechoic	SAEMC	L×W×H 9×6×6	A002	2016-08-21	2017-08-20
RF cable	H+S	SUCOFLEX 102	R002	2016-08-19	2017-08-18
Horn Antenna	SCHWARZBECK	BBHA 9170	1123	2016-08-19	2017-08-18

5. ANTENNA REQUIREMENTS

5.1

According to FCC Part 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

5.2 TEST RESULT

This product has an PCB antenna, fulfill the requirement of this section.

6. CONDUCTED EMISSIONS MEASUREMENT

6.1 POWER LINE CONDUCTED EMISSION LIMITS (Frequency Range 150KHz-30MHz)

Frequency of emission (MHz)	Conducted limit (dB μ V)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

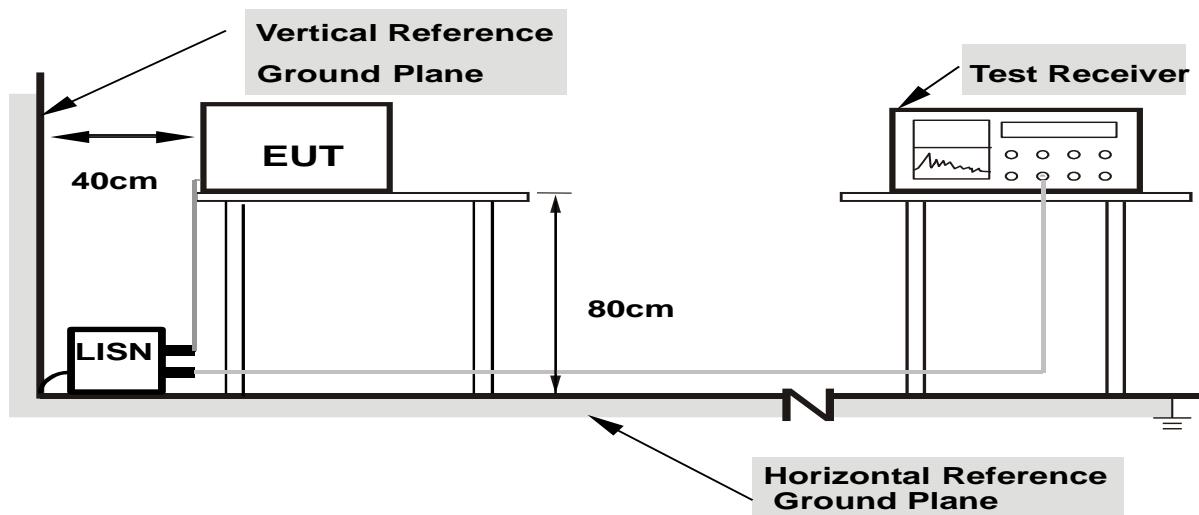
The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

6.2 TEST PROCEDURE

- a. The EUT was placed 0.4 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

6.3 TEST SETUP



Note:

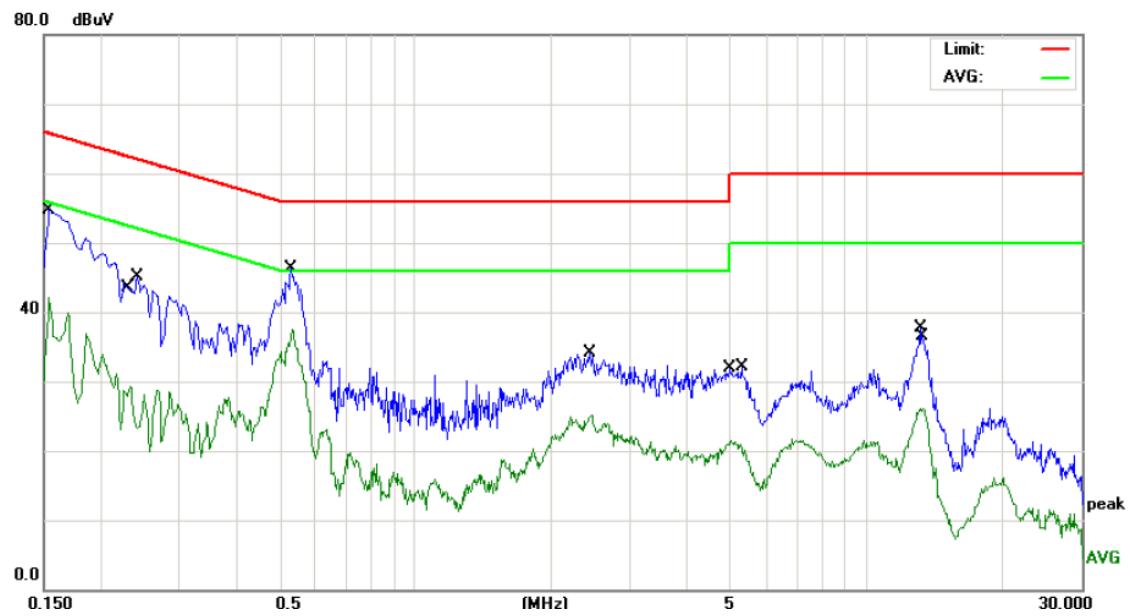
1. Support units were connected to second LISN.
2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes

6.4 ENVIRONMENTAL CONDITIONS

Temperature:	24 °C
Relative Humidity:	60 %
ATM Pressure:	1012 mbar

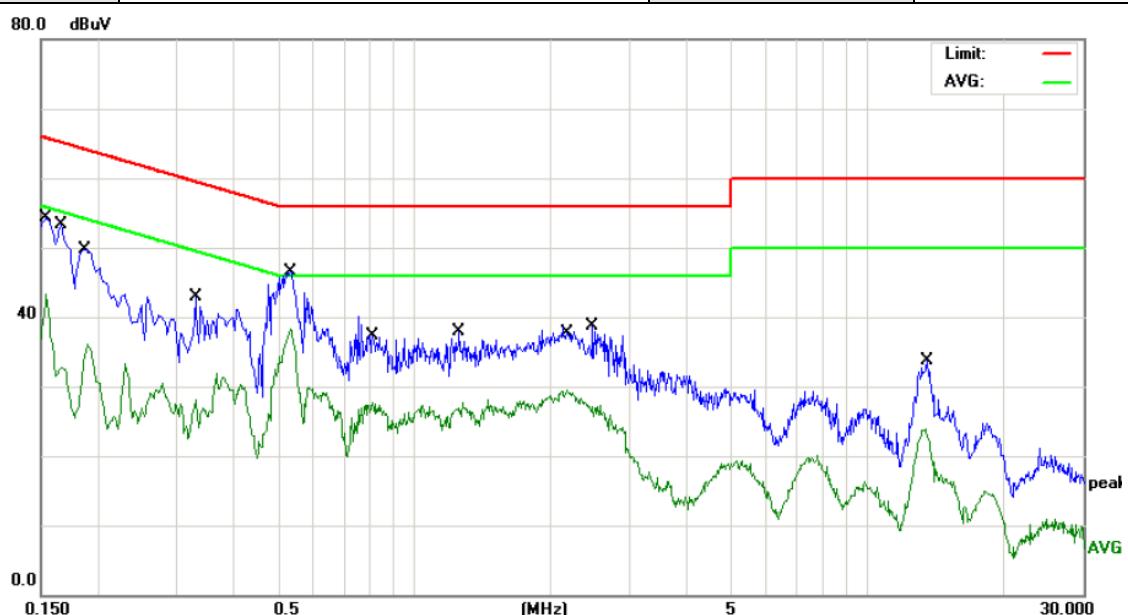
6.5 TEST RESULTS

EUT	Air Mouse	Model Name	T6
Temperature	26 °C	Relative Humidity	54%
Pressure	1010hPa	Phase	L
Test Date	June 15, 2017	Voltage	120V/60Hz



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector
			Level	Factor	ment			
		MHz	dBuV	dB	dBuV	dBuV	dB	
1		0.1539	44.33	10.44	54.77	65.78	-11.01	QP
2		0.1539	31.57	10.44	42.01	55.78	-13.77	AVG
3		0.2340	18.84	10.43	29.27	52.30	-23.03	AVG
4		0.2420	34.66	10.43	45.09	62.02	-16.93	QP
5		0.5299	35.82	10.40	46.22	56.00	-9.78	QP
6	*	0.5340	27.03	10.40	37.43	46.00	-8.57	AVG
7		2.4420	23.81	10.28	34.09	56.00	-21.91	QP
8		2.4660	14.87	10.28	25.15	46.00	-20.85	AVG
9		5.0180	11.26	10.23	21.49	50.00	-28.51	AVG
10		5.2780	21.80	10.23	32.03	60.00	-27.97	QP
11		13.1940	27.51	10.16	37.67	60.00	-22.33	QP
12		13.3420	15.93	10.16	26.09	50.00	-23.91	AVG

Remark: All the modes have been investigated, and only worst mode is presented in this report.

EUT	Air Mouse	Model Name	T6					
Temperature	26 °C	Relative Humidity	54%					
Pressure	1010hPa	Phase	N					
Test Date	June 15, 2017	Voltage	120V/60Hz					
								
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1		0.1539	32.76	10.44	43.20	55.78	-12.58	AVG
2		0.1660	42.91	10.44	53.35	65.15	-11.80	QP
3		0.1900	25.61	10.44	36.05	54.03	-17.98	AVG
4		0.3300	32.38	10.42	42.80	59.45	-16.65	QP
5		0.5340	36.09	10.40	46.49	56.00	-9.51	QP
6	*	0.5340	27.92	10.40	38.32	46.00	-7.68	AVG
7		0.8100	17.39	10.36	27.75	46.00	-18.25	AVG
8		1.2620	27.61	10.33	37.94	56.00	-18.06	QP
9		2.1820	19.25	10.29	29.54	46.00	-16.46	AVG
10		2.4780	28.38	10.28	38.66	56.00	-17.34	QP
11		13.4340	13.71	10.16	23.87	50.00	-26.13	AVG
12		13.5940	23.51	10.16	33.67	60.00	-26.33	QP

Remark: All the modes have been investigated, and only worst mode is presented in this report.

7. RADIATED EMISSION MEASUREMENT

7.1 RADIATED EMISSION LIMITS

According to §15.249(a), the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

Fundamental Frequency	Field strength of fundamental (millivolts/meter)	Field strength of Harmonics (micro-volts/meter)
902-928 MHz	50	500
2400-2483.5 MHz	50	500
5725-5875 MHz	50	500
24.0-24.25 GHz	250	2500

As per FCC§15.249 (c), Field strength limits are specified at a distance of 3 meters.

(d) Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

Frequencies (MHz)	Field Strength (microvolt/meter)	Measurement Distance (meters)
0.009~0.490	$2400/F(\text{KHz})$	300
0.490~1.705	$24000/F(\text{KHz})$	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

The emission limit in this paragraph is based on measurement instrumentation employing an average detector. The provisions in §15.35 for limiting peak emissions apply. Spurious Radiated Emissions measurements starting below or at the lowest crystal frequency.

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.

7.2 TEST EQUIPMENT SETUP

During the radiated emission test, the EMI test receiver & Spectrum Analyzer Setup were set with the following configurations:

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (emission in restricted band)	1 MHz / 1 MHz for Peak, 1 MHz / 10Hz for Average

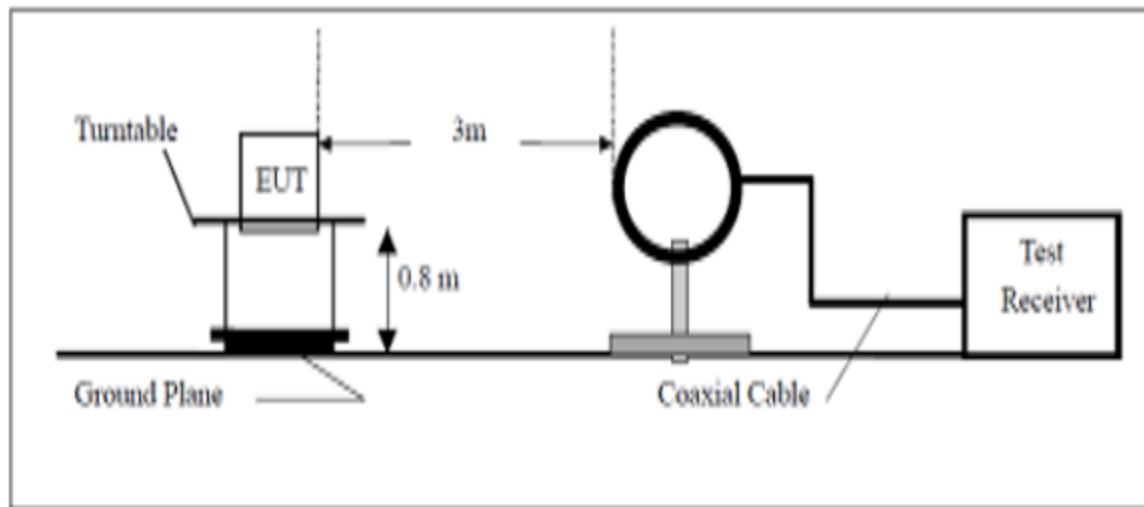
Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

7.3 TEST PROCEDURE

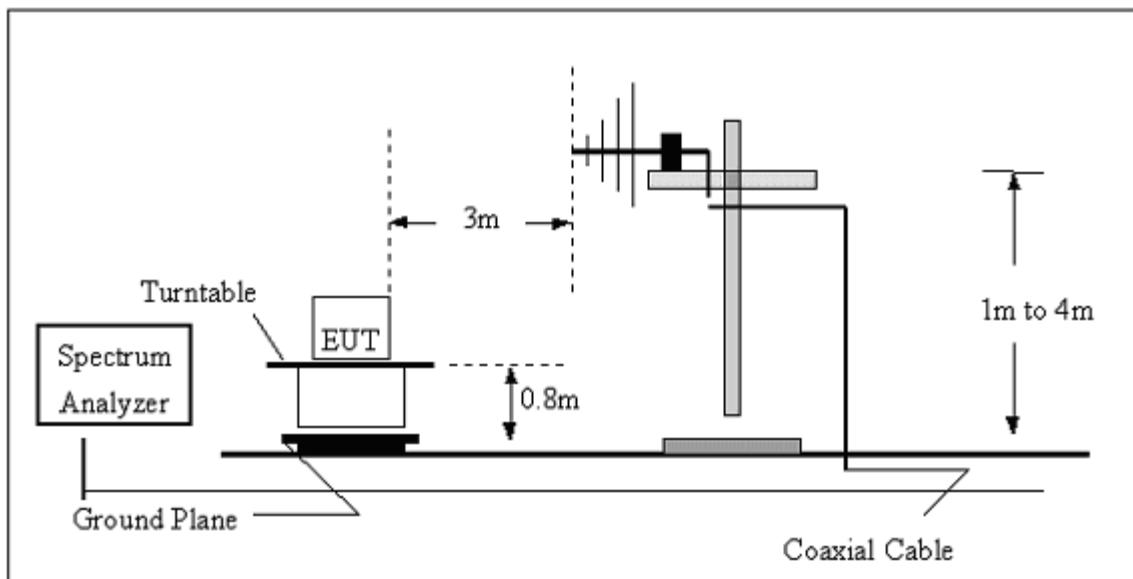
- a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos.

7.4 TEST SETUP

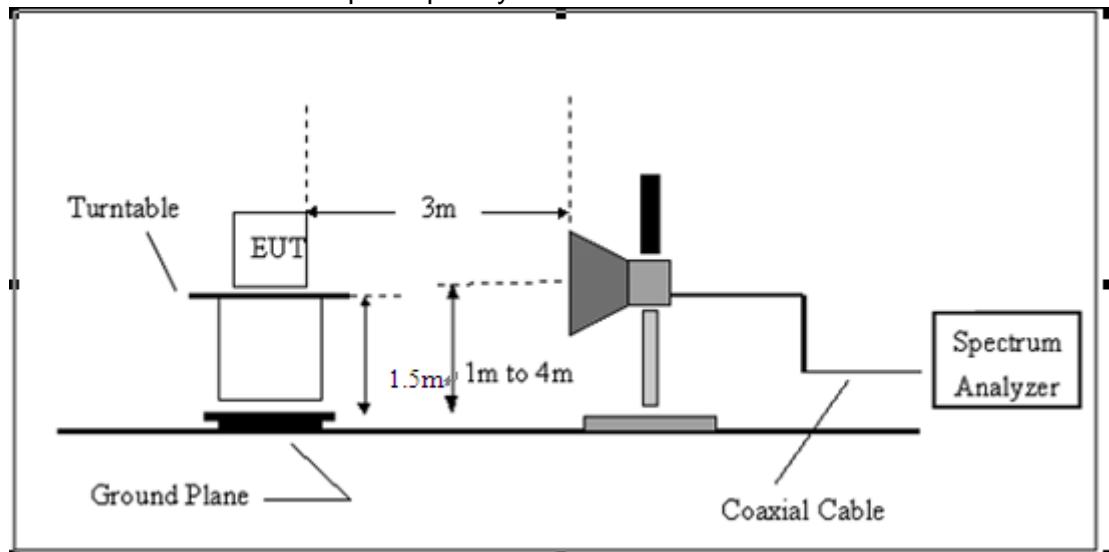
(A) Radiated Emission Test-Up Frequency Below 30MHz



(B) Radiated Emission Test-Up Frequency 30MHz~1GHz



(C) Radiated Emission Test-Up Frequency Above 1GHz

**7.5 ENVIRONMENTAL CONDITIONS**

Temperature:	25 °C
Relative Humidity:	57 %
ATM Pressure:	1012 mbar

7.6 TEST RESULTS

Field Strength of Fundamental

Frequency (MHz)	Reading (dBuV/m)	Correct Factor dB/m	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Polar	Detector
2404	93.12	-8.63	84.49	114	-29.51	H	PK
2404	92.06	-8.63	83.43	94	-10.57	H	AV
2440	93.44	-8.3	85.14	114	-28.86	H	PK
2440	91.25	-8.3	82.95	94	-11.05	H	AV
2480	94.44	-8.45	85.99	114	-28.01	H	PK
2480	91.24	-8.45	82.79	94	-11.21	H	AV
2404	93.37	-8.63	84.74	114	-29.26	V	PK
2404	89.22	-8.63	80.59	94	-13.41	V	AV
2440	94.32	-8.3	86.02	114	-27.98	V	PK
2440	91.56	-8.3	83.26	94	-10.74	V	AV
2480	92.58	-8.45	84.13	114	-29.87	V	PK
2480	90.68	-8.45	82.23	94	-11.77	V	AV

Note:

1. Correction Factor= Antenna Factor + Cable loss - Pre-amplifier; Emission Level=Peak Reading + Correction Factor; Margin=Emission Level - Limit.

Spurious Emissions

Frequency Range (9 kHz-30MHz)

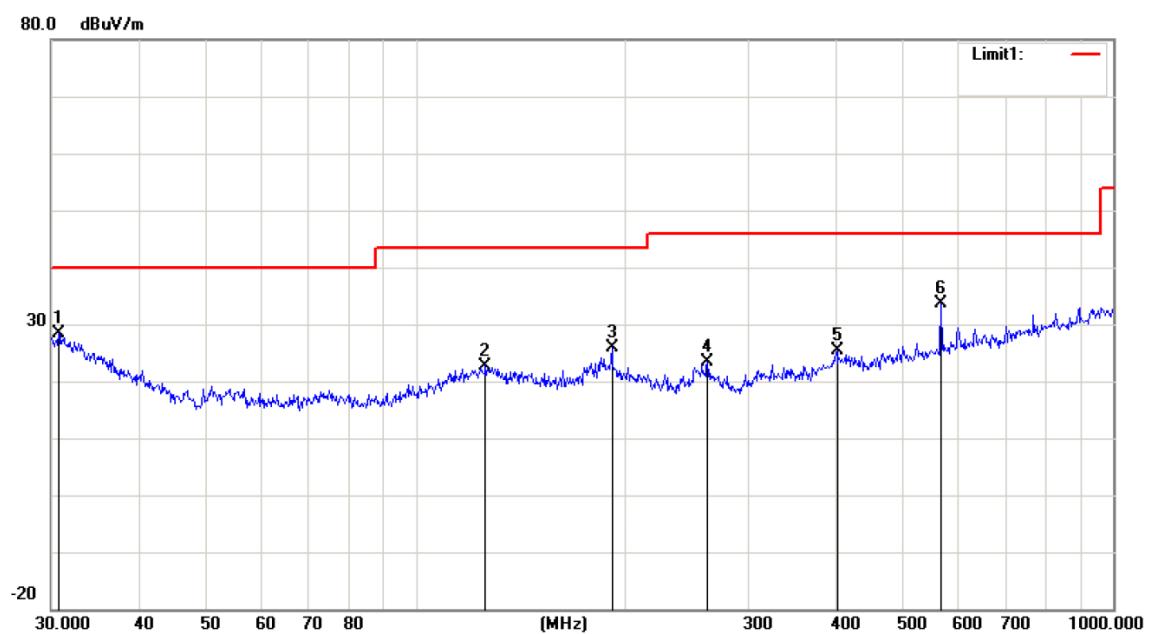
Freq.	Emission Level	Limit	Margin	State
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F
--	--	--	--	P
--	--	--	--	P

Note:

1. Emission Level=Reading+ Cable loss-Antenna factor-Amp factor
2. The emission levels are 20 dB below the limit value, which are not reported. It is deemed to comply with the requirement.

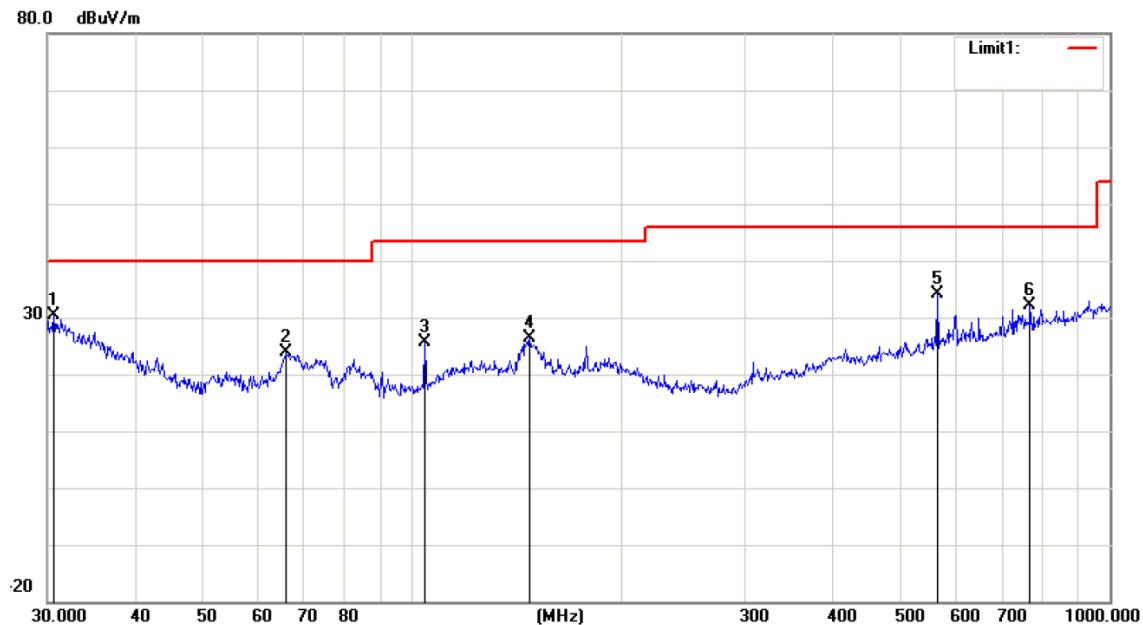
Frequency Range (30MHz-1000MHz)

Horizontal:



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	Detector
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
1	*	30.7455	25.32	2.99	28.31	40.00	-11.69	QP
2		125.8864	24.89	-2.14	22.75	43.50	-20.75	QP
3		191.0738	31.15	-5.29	25.86	43.50	-17.64	QP
4		261.9753	29.87	-6.39	23.48	46.00	-22.52	QP
5		401.8385	27.69	-2.30	25.39	46.00	-20.61	QP
6		566.6223	33.32	0.43	33.75	46.00	-12.25	QP

Vertical:



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1	*	30.6379	27.27	3.07	30.34	40.00	-9.66	QP
2		66.0342	32.39	-8.59	23.80	40.00	-16.20	QP
3		104.1701	30.71	-5.18	25.53	43.50	-17.97	QP
4		147.4036	29.89	-3.61	26.28	43.50	-17.22	QP
5		566.6223	33.61	0.43	34.04	46.00	-11.96	QP
6		768.7481	28.41	3.67	32.08	46.00	-13.92	QP

Note:

Measurements were conducted in all channels (high, middle, low), and the worst case (low channel) was submitted only.

Frequency Range (Above 1G)

Frequency (MHz)	Reading (dBuV/m)	Correct Factor dB/m	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Polar	Detector
Low Channel-2404MHz							
4808	59.76	-1.29	58.47	74	-15.53	H	PK
4808	41.35	-1.29	40.06	54	-13.94	H	AV
7212	50.79	6.51	57.30	74	-16.70	H	PK
7212	30.67	6.51	37.18	54	-16.82	H	AV
Middle Channel-2440MHz							
4880	58.35	-1.29	57.06	74	-16.94	H	PK
4880	42.75	-1.29	41.46	54	-12.54	H	AV
7320	43.29	6.51	49.8	74	-24.2	H	PK
7320	32.24	6.51	38.75	54	-15.25	H	AV
High Channel-2480MHz							
4960	56.71	-1.29	55.42	74	-18.58	H	PK
4960	43.53	-1.29	42.24	54	-11.76	H	AV
7440	42.27	6.51	48.78	74	-25.22	H	PK
7440	32.29	6.51	38.8	54	-15.2	H	AV
4960	58.70	-0.8	57.90	74	-16.10	V	PK
4960	41.81	-0.8	41.01	54	-12.99	V	AV
7440	44.7	6.94	51.64	74	-22.36	V	PK
7440	32.54	6.94	39.48	54	-14.52	V	AV

Note:

1. Correction Factor= Antenna Factor + Cable loss - Pre-amplifier; Emission Level=Peak Reading + Correction Factor; Margin=Emission Level - Limit.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.
3. Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency.

OUT OF BAND EMISSION

Frequenc y (MHz)	Reading (dBuV/m)	Correct Factor dB/m	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Polar	Detector
Low Channel-2404MHz							
2390	69.25	-0.8	68.45	74	-5.55	H	PK
2390	48.83	-0.8	48.03	54	-5.97	H	AV
2390	67.55	6.94	74.49	74	0.49	V	PK
2390	51.23	6.94	58.17	54	4.17	V	AV
High Channel-2480MHz							
2483.5	68.36	-8.17	60.19	74	-13.81	H	PK
2483.5	49.9	-8.17	41.73	54	-12.27	H	AV
2483.5	65.76	-8.17	57.59	74	-16.41	V	PK
2483.5	44.52	-8.17	36.35	54	-17.65	V	AV

Note:

1. Correction Factor= Antenna Factor + Cable loss - Pre-amplifier; Emission Level=Peak Reading + Correction Factor; Margin=Emission Level - Limit.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.
3. Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency.

8. 20DB OCCUPIED BANDWIDTH

8.1 STANDARD APPLICABLE

According to 15.215 (c), intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§15.217 through 15.257 and in Subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated. The requirement to contain the designated bandwidth of the emission within the specified frequency band includes the effects from frequency sweeping, frequency hopping and other modulation techniques that may be employed as well as the frequency stability of the transmitter over expected variations in temperature and supply voltage. If a frequency stability is not specified in the regulations, it is recommended that the fundamental emission be kept within at least the central 80% of the permitted band in order to minimize the possibility of out-of-band operation.

8.2 TEST PROCEDURE

1. According to the follow Test-setup, keep the relative position between the artificial antenna and the EUT.
2. Set to the maximum power setting and enable the EUT transmit continuously.
3. Use the following spectrum analyzer settings for 20dB Bandwidth measurement.
Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a hopping channel;
RBW \geq 1% of the 20 dB bandwidth; VBW \geq RBW; Sweep = auto; Detector function =peak; Trace = max hold.
4. Measure and record the results in the test report.

8.3 TEST SETUP

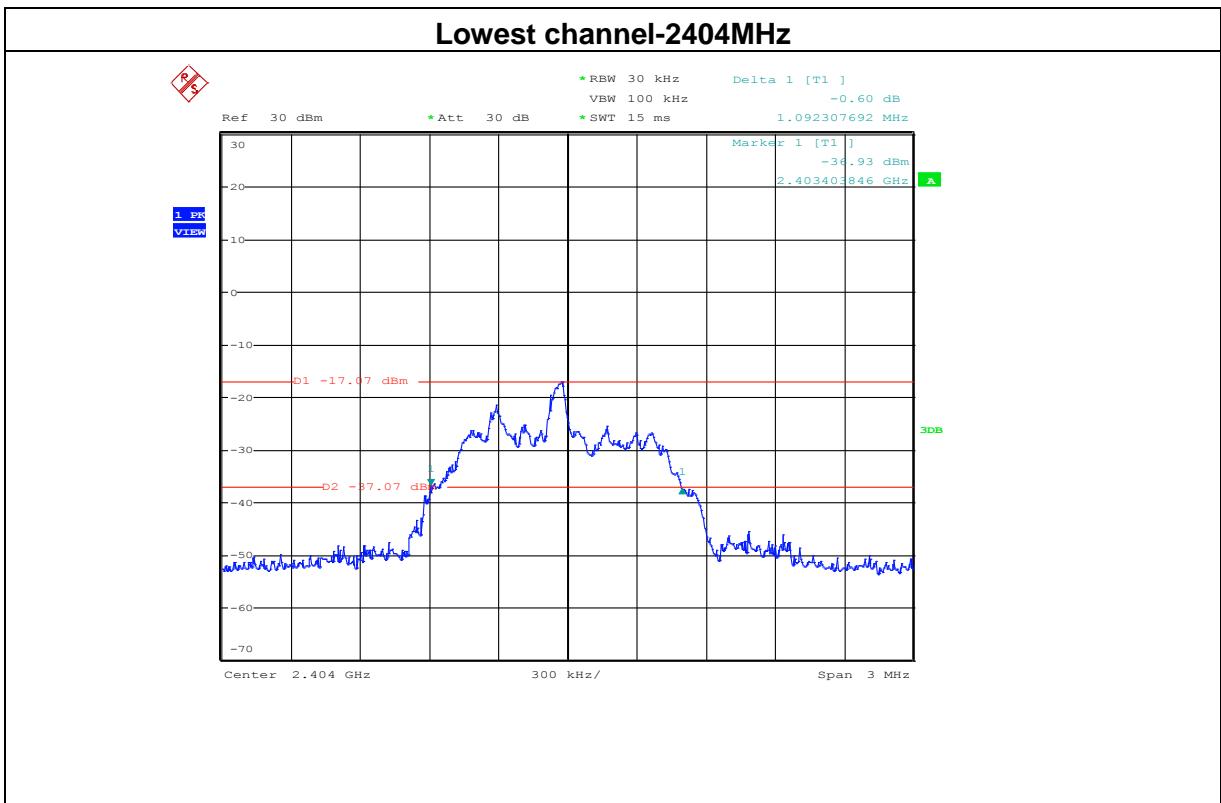


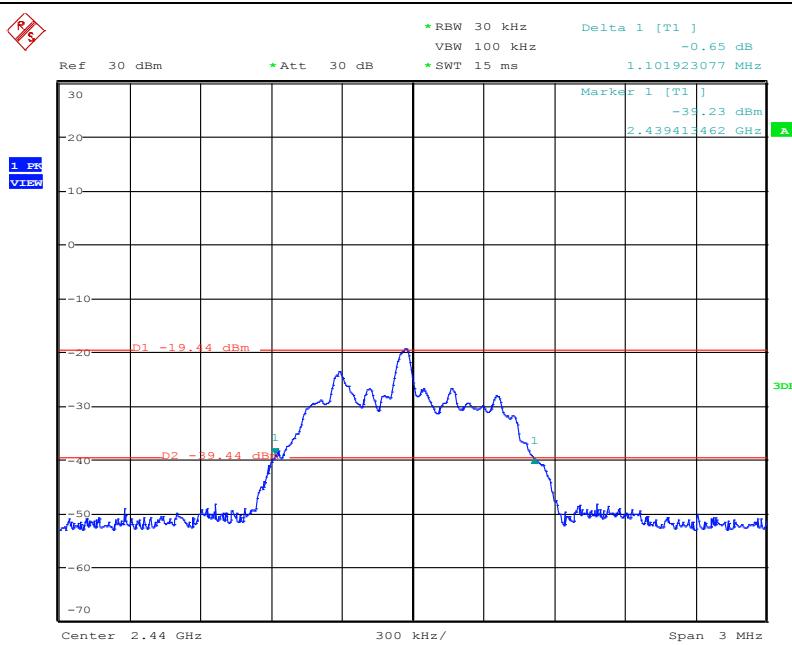
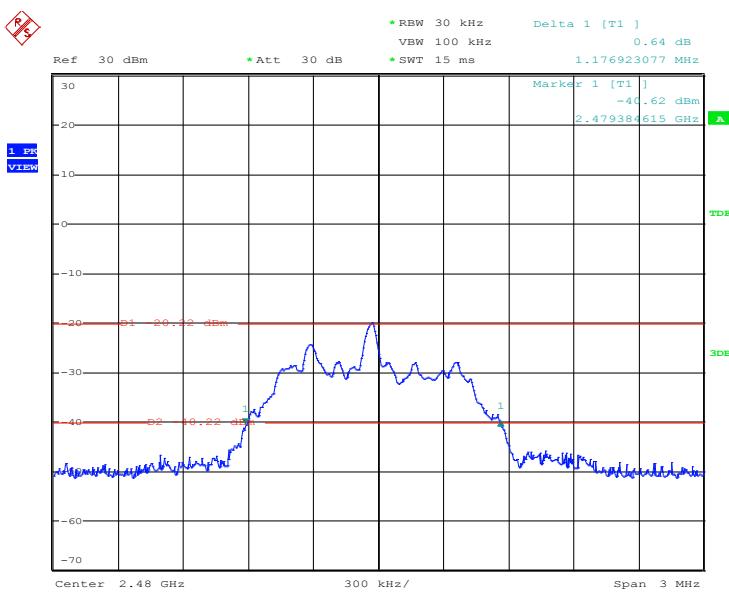
8.4 ENVIRONMENTAL CONDITIONS

Temperature:	22 °C
Relative Humidity:	58 %
ATM Pressure:	1012 mbar

8.5 TEST RESULTS

Frequency	20dB Bandwidth (kHz)	Result
2404 MHz	1092.31	PASS
2440MHz	1101.92	PASS
2480 MHz	1176.92	PASS



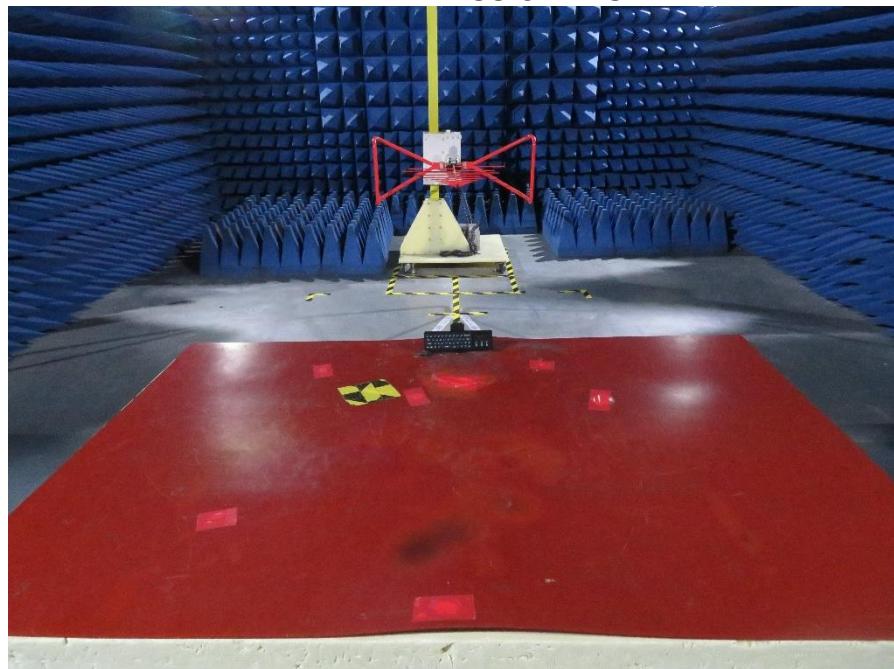
Middle channel-2440MHz**Highest channel-2480 MHz**

9. PHOTOGRAPHS OF TEST SETUP

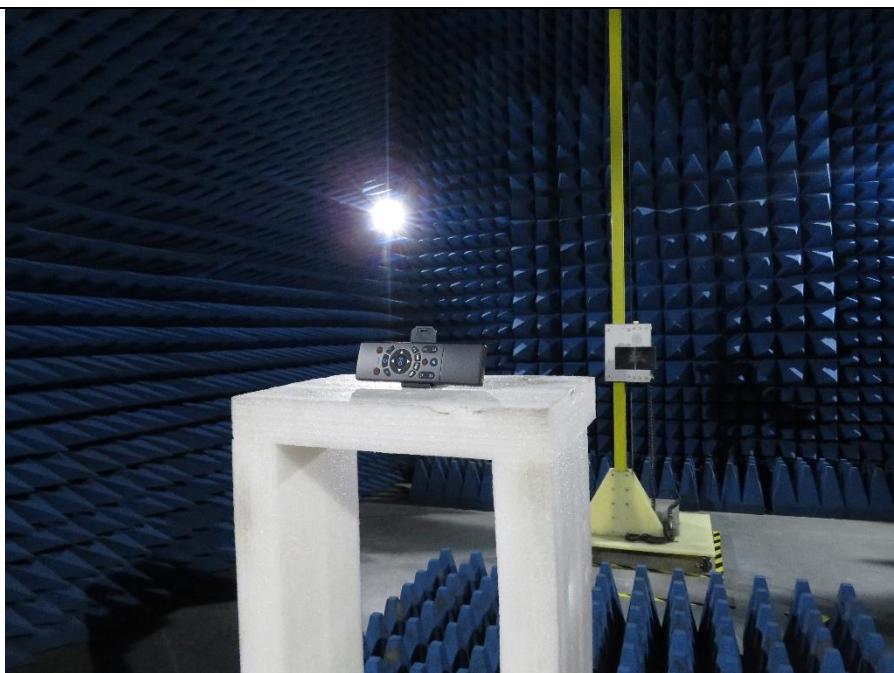
CONDUCTED EMISSION TEST



RADIATED EMISSION TEST



RADIATED EMISSION TEST



RF TEST



10. PHOTOGRAPHS OF EUT

Appearance photograph of EUT



Appearance photograph of EUT



Appearance photograph of EUT



Appearance photograph of EUT



Appearance photograph of EUT



Appearance photograph of EUT



Appearance photograph of EUT



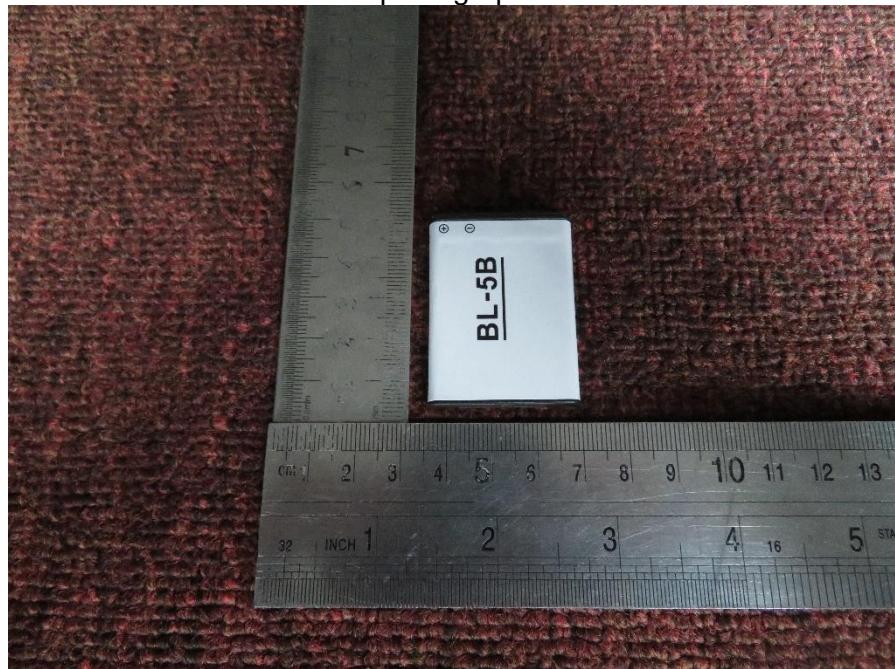
Internal photograph of EUT



Internal photograph of EUT



Internal photograph of EUT



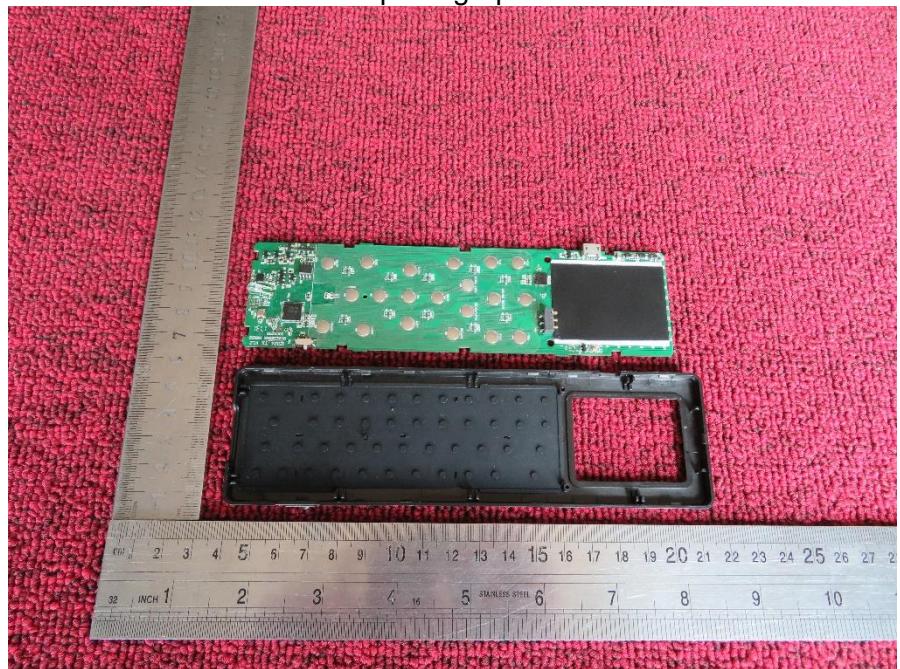
Internal photograph of EUT



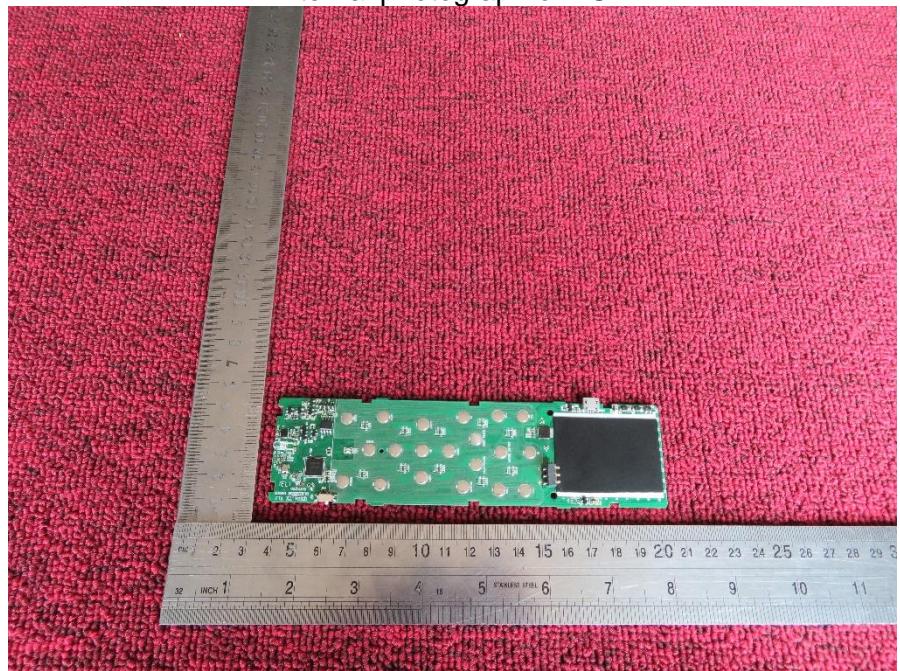
Internal photograph of EUT



Internal photograph of EUT



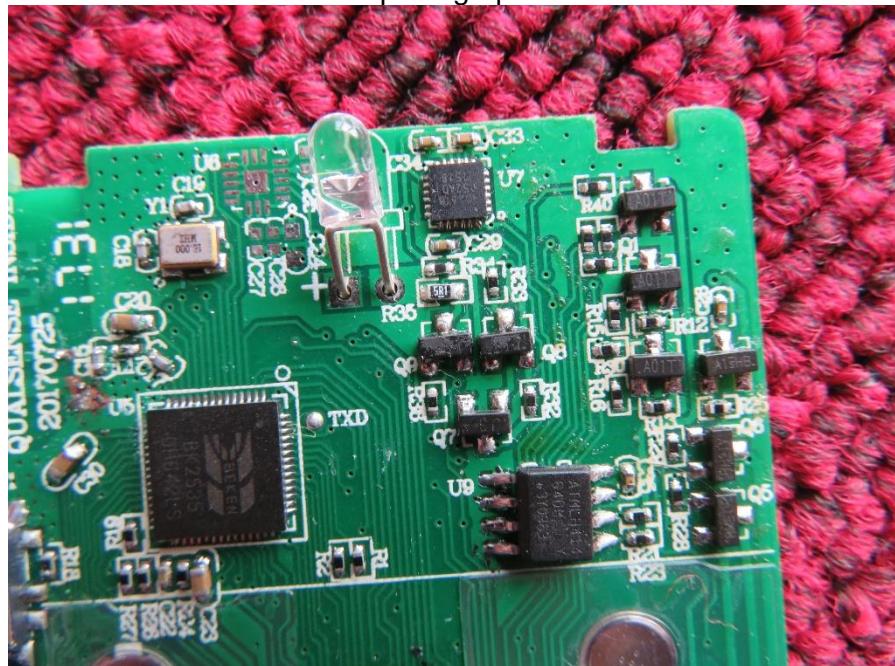
Internal photograph of EUT



Internal photograph of EUT



Internal photograph of EUT



—END OF REPORT—