FCC Report

Application Purpose : Original grant

Applicant Name: : HONG KONG LESIA TECHNOLOGY CO., LIMITED

FCC ID : 2AM6RPRIMEP6

Equipment Type : Mobile phone

Model Name : Prime P6

Report Number: FCC17080754A-15B

Standard(S) : FCC Part 15 Subpart B

Date Of Receipt : June 08, 2017

Date Of Issue : July 10, 2017

Test By :

(Dekun Liu)

Reviewed By

(Sol Oin)

Authorized by :

_(Michal Ling)

Prepared by : QTC Certification & Testing Co., Ltd.

2nd Floor, Bl Building, Fengyeyuan Industrial Plant,

Liuxian 2st. Road, Xin'an Street, Bao'an

District,,Shenzhen,518000

Registration Number: 588523

Page 2 of					
REPORT REVISE RECORD					
port Version	Revise Time	Issued Date	Valid Version	Notes	
V1.0	/	July 10, 2017	Valid	Original Report	
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Table of Contents	Page
1. GENERAL INFORMATION	4
2. TEST DESCRIPTION	6
2.1 MEASUREMENT UNCERTAINTY	6
2.2 DESCRIPTION OF TEST MODES	7
2.3 CONFIGURATION OF SYSTEM UNDER TEST	8
2.4 DESCRIPTION OF SUPPORT UNITS (CONDUCTED MODE)	9
3. SUMMARY OF TEST RESULTS	10
4. MEASUREMENT INSTRUMENTS	11
5. EMC EMISSION TEST	12
5.1 CONDUCTED EMISSION MEASUREMENT	12
5.1.1 POWER LINE CONDUCTED EMISSION LIMITS	12
5.1.2 TEST PROCEDURE	13
5.1.3 DEVIATION FROM TEST STANDARD	13
5.1.4 TEST SETUP 5.1.5 EUT OPERATING CONDITIONS	13 13
5.1.5 EUT OPERATING CONDITIONS 5.1.6 TEST RESULTS	13
5.2 RADIATED EMISSION MEASUREMENT 5.2.1 RADIATED EMISSION LIMITS	16 16
5.2.2 TEST PROCEDURE	16
5.2.3 DEVIATION FROM TEST STANDARD	17
5.2.4 TEST SETUP	18
5.2.5 EUT OPERATING CONDITIONS	18
5.2.5.1 TEST RESULTS (BETWEEN 30M – 1000 MHZ)	19
5.2.5.2 TEST RESULTS (1GHZ TO 25GHZ)	21
6. EUT TEST PHOTO	22
7. PHOTOGRAPHS OF EUT	26

1. GENERAL INFORMATION

Test Model	Prime P6
Applicant	HONG KONG LESIA TECHNOLOGY CO., LIMITED
Address	UNIT 04, 7/F BRIGHT WAY TOWER NO.33 MONG KOK RD KL
Manufacturer	Shenzhen Kleadtone Technology Co.,Ltd
Address	Room 506- 507 F Bldg Dianzi Fuhua Jidi, Taojindi, Longsheng community , Longhua District, Shenzhen, China
Equipment Type	Mobile phone
Brand Name	Lesia
Hardware version:	FF225-04J
Software version:	FF225M04_J10_KLT_KT1706_LESIA_PRIME_P6_V05_128X160_EN_17072 8_0859_3232_UEDP_DSIM_FM_BT_CLASSAB_SC_FL_TORCH_VIB_9089 _notes
Battery information:	Li-Polymer Battery : Prime Series Voltage: 3.7V Capacity: 800mAh Limited Charge Voltage: 4.2V
Adapter Information:	Adapter: Prime Series Input: AC 100-240V 50/60Hz 200mA Output: DC 5V===500mA
Data of receipt	June 08, 2017
Date of test	June 08, 2017 to June 30, 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,Bl 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 63.4:2014. The sample tested as described in this report is in compliance with the FCC Rules Part15 Subpart B. 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 $\mathbf{y} \pm \mathbf{U}$, where expended uncertainty \mathbf{U} is based on a standard uncertainty multiplied by a coverage factor of $\mathbf{k=2}$, providing a level of confidence of approximately 95 % $^{\circ}$

No.	Item	Uncertainty
1	Conducted Emission Test	±3.2dB
2	RF power, conducted	±0.16dB
3	Spurious emissions, conducted	±0.21dB
4	All emissions, radiated(<1G)	±4.7dB
5	All emissions, radiated(>1G)	±4.7dB
6	Temperature	±0.5°C
7	Humidity	±2%

2.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Mode	Description
Mode 1	Video Recording
Mode 2	Video Playing
Mode 3	FM
Mode 4	Exchange data with computer

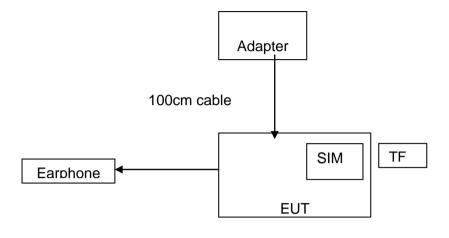
For Conducted Emission			
Final Test Mode	Test with Keyboard and Mouse		
Mode 1	Video Recording		
Mode 2	Video Playing		
Mode 3	FM		
Mode 4	Exchange data with computer		

For Radiated Emission			
Final Test Mode	Test with Keyboard and Mouse		
Mode 1	Video Recording		
Mode 2	Video Playing		
Mode 3	FM		
Mode 4	Exchange data with computer		

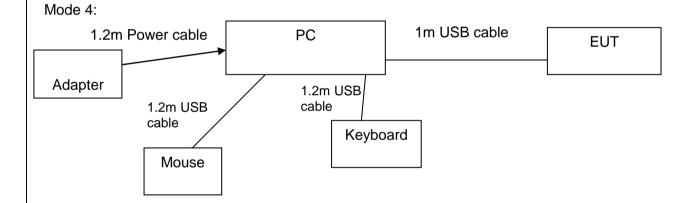
Note: Scan all test modes in advance and mode 4 is recorded for the worst mode

2.3 CONFIGURATION OF SYSTEM UNDER TEST

Mode 1&2&3:



(EUT: Mobile phone



(EUT: Mobile phone)

I/O Port of EUT					
I/O Port Type Q'TY Cable Tested with					
Power	1	1m USB cable, unshielded	1		
Earphone	1	1m USB cable, unshielded	1		

2.4 DESCRIPTION OF SUPPORT UNITS (CONDUCTED MODE)

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	Mfr/Brand	Model/Type No.	Series No.	Note
1	Adapter	1	Prime Series	/	/
2	Keyboard	HP	SK-2880	435302-AA-	/
3	Mouse	DELL	MS111-1	/	/

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in Length column.

3. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part15 , Subpart B					
Standard Section	Test Item	Judgment	Remark		
15.107	CONDUCTED EMISSION	PASS			
15.109	RADIATED EMISSION	PASS			

NOTE:

(1)" N/A" denotes test is not applicable in this test report.

4. MEASUREMENT INSTRUMENTS

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibrated	Calibrated until
ESCI Test Receiver	R&S	ESCI	100005	08/19/2016	08/18/2017
LISN	AFJ	LS16	16010222119	08/19/2016	08/18/2017
LISN(EUT)	Mestec	AN3016	04/10040	08/19/2016	08/18/2017
pre-amplifier	CDSI	PAP-1G18-38		08/19/2016	08/18/2017
System Controller	СТ	SC100	-	08/19/2016	08/18/2017
Bi-log Antenna	Chase	CBL6111C	2576	08/19/2016	08/18/2017
Spectrum analyzer	R&S	FSU26	200409	08/19/2016	08/18/2017
Horn Antenna	SCHWARZBECK	9120D	1141	08/19/2016	08/18/2017
Bi-log Antenna	SCHWAREBECK	VULB9163	9163/340	08/19/2016	08/18/2017
Pre Amplifier	H.P.	HP8447E	2945A02715	10/13/2016	10/12/2017
9*6*6 Anechoic				08/21/2016	08/20/2017

5. EMC EMISSION TEST

5.1 CONDUCTED EMISSION MEASUREMENT

5.1.1 POWER LINE CONDUCTED EMISSION Limits (Frequency Range 150KHz-30MHz)

	Class A (dBuV)		Class B (dBuV)		Standard	
FREQUENCY (MHz)	Quasi-peak	Average	Quasi-peak	Average	Statitualu	
0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *	FCC	
0.50 -5.0	73.00	60.00	56.00	46.00	FCC	
5.0 -30.0	73.00	60.00	60.00	50.00	FCC	

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		

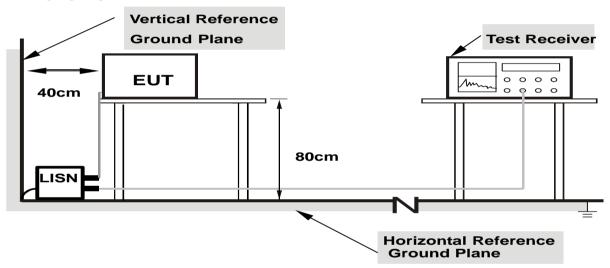
5.1.2 TEST PROCEDURE

- 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.

5.1.3 DEVIATION FROM TEST STANDARD

No deviation

5.1.4 TEST SETUP



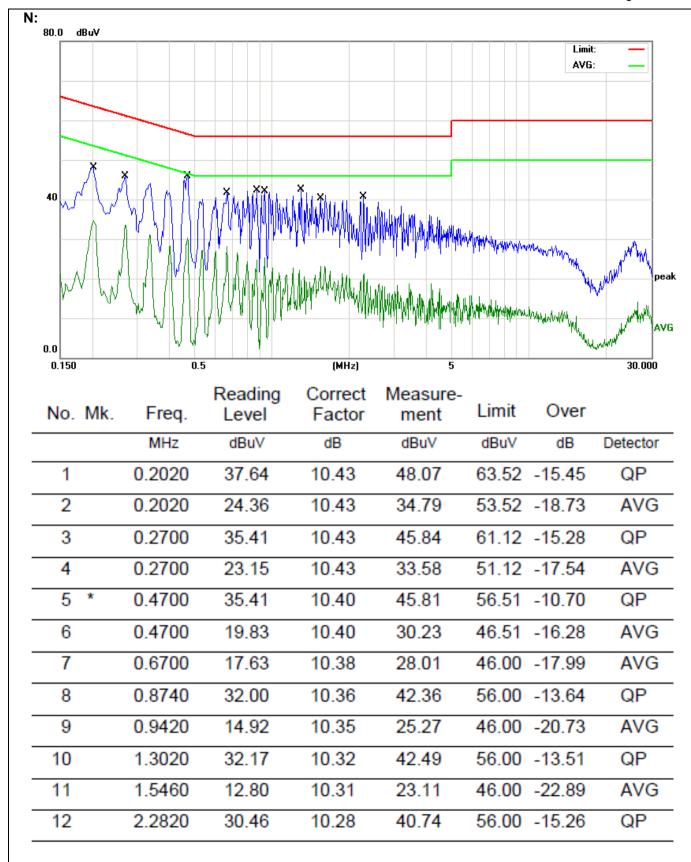
Note: 1.Support units were connected to second LISN.

2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

5.1.5 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

5.1.6 TEST RESULTS This is the worst pattern data **EUT** Model Name Prime P6 Mobile phone 26 ℃ 54% Temperature Relative Humidity 1010hPa Phase L/N Pressure Test Mode Test Date June 10, 2017 Mode 4 L: 80.0 dBuV Limit: AVG: peak MAVG 0.0 0.150 0.5 (MHz) 30.000 Reading Correct Measure-Limit Over No. Mk. Freq. Level Factor ment MHz dBuV dB dBuV dBuV dB Detector 1 0.1980 39.49 10.43 49.92 63.69 -13.77 QP 2 0.2060 25.65 10.43 36.08 53.36 -17.28 AVG 3 0.2700 37.74 10.43 48.17 61.12 -12.95 QΡ 4 0.2700 26.41 10.43 36.84 51.12 -14.28 AVG 5 0.3379 34.08 10.42 44.50 59.25 -14.75 QΡ 43.26 0.4580 32.86 56.73 -13.47 QΡ 6 10.40 22.51 7 0.4700 10.40 32.91 46.51 -13.60 AVG 10.39 27.29 46.00 -18.71 AVG 8 0.6060 16.90 14.24 10.35 24.59 46.00 -21.41 AVG 9 0.8780 10 1.3020 30.08 10.32 40.40 56.00 -15.60 QΡ 11 1.5460 11.30 10.31 21.61 46.00 -24.39 AVG 12 1.8980 28.33 10.30 38.63 56.00 -17.37 QΡ



5.2 RADIATED EMISSION MEASUREMENT

5.2.1 RADIATED EMISSION LIMITS (Frequency Range 9kHz-1000MHz)

The field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

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

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

EDECLIENCY (MLI-)	Limit (dBuV/m) (at 3M)		
FREQUENCY (MHz)	PEAK	AVERAGE	
Above 1000	74	54	

Notes:

- (1) The limit for radiated test was performed according to FCC PART 15B.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

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

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

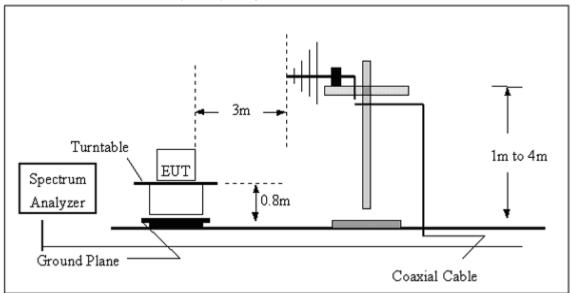
5.2.2 TEST PROCEDURE

- 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
- 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.

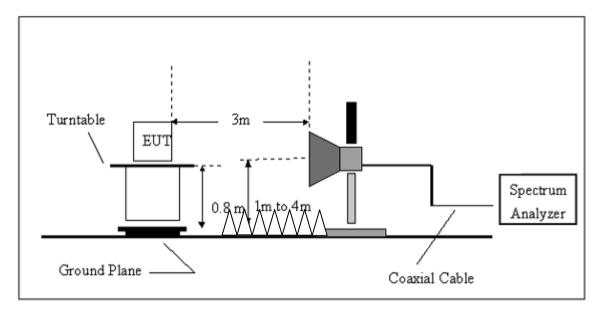
EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
f. For the actual test configuration, please refer to the related Item –EUT Test Photos. Note:
Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported
5.2.3 DEVIATION FROM TEST STANDARD No deviation

5.2.4 TEST SETUP

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



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



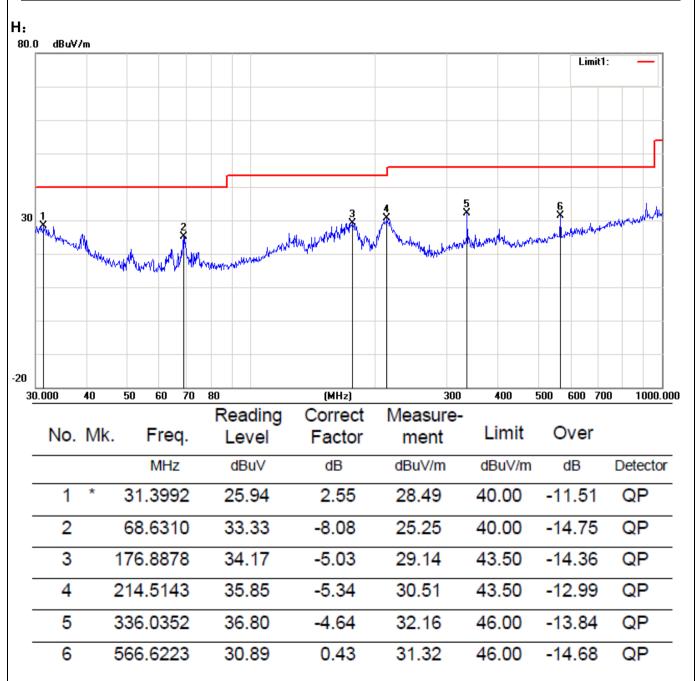
5.2.5 EUT OPERATING CONDITIONS

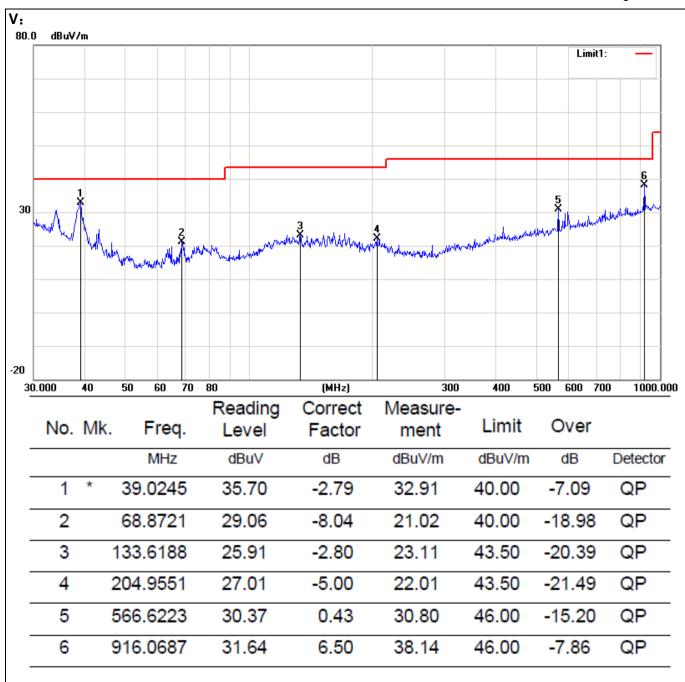
The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

5.2.5.1 TEST RESULTS (BETWEEN 30M - 1000 MHZ)

This is the worst pattern data

EUT	Mobile phone	Model Name	Prime P6
Temperature	20 ℃	Relative Humidity	48%
Pressure	1010 hPa	Polarization:	Horizontal/Vertical
Test Mode	Mode 4	Test Date	June 10, 2017





5.2.5.2 TEST RESULTS (1GHZ TO 25GHZ)

This is the worst pattern data

EUT	Mobile phone	Model Name	Prime P6
Temperature	120 (Relative Humidity	48%
Pressure	1010 hPa	Test Mode	Mode 4
Test Date	June 10, 2017		

Freq.	Ant.	Emission		Limit		Over(dB)	
(MHz)	Pol.	Level(dBuV)	3m(dBuV/m)			
	H/V	PK	AV	PK	AV	PK	AV
2479.6	V	59.14	39.04	74	54	-14.86	-14.96
6462.7	V	58.73	39.28	74	54	-15.27	-14.72
2481.8	Н	59.34	40.51	74	54	-14.66	-13.49
6468.2	Н	59.69	40.69	74	54	-14.31	-13.31

Remark:

All emissions not reported were more than 20dB below the specified limit or in the noise floor. Factor = Antenna Factor + Cable Loss – Pre-amplifier.

All the x/y/z orientation has been investigated, and only worst case is presented in this report.

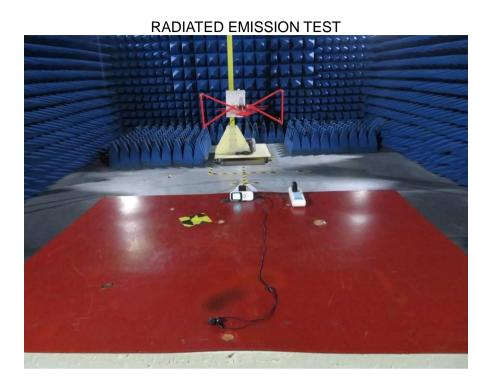
6. EUT TEST PHOTO

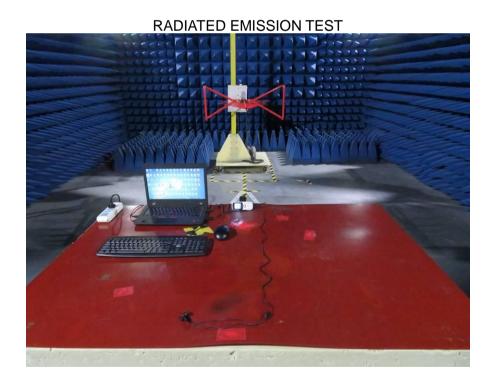


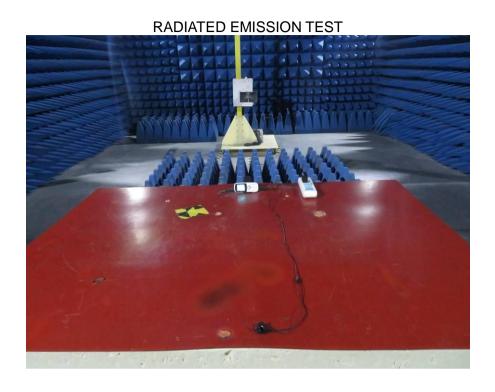


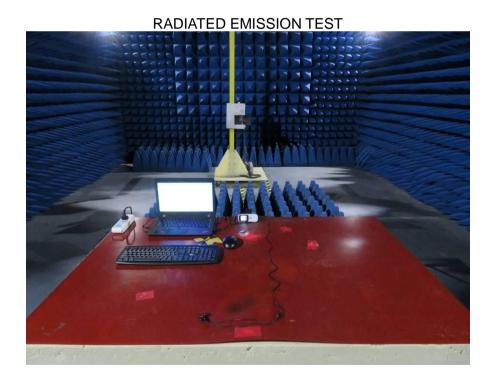
CONDUCTED EMISSION TEST

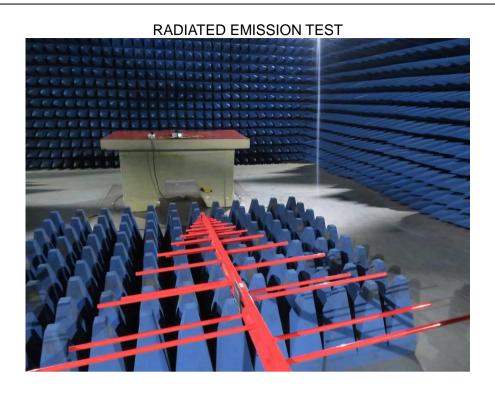


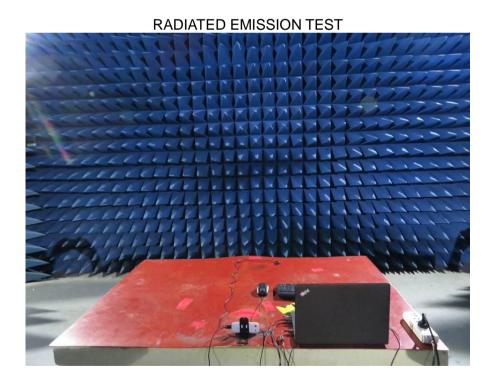










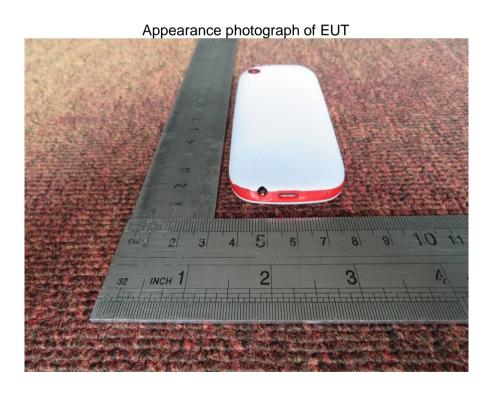


7. PHOTOGRAPHS OF EUT

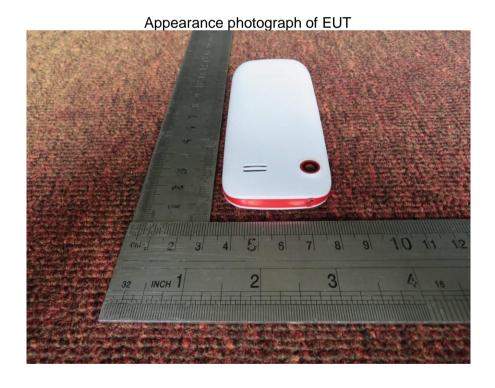


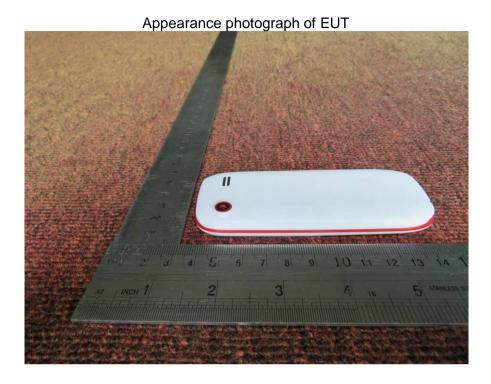










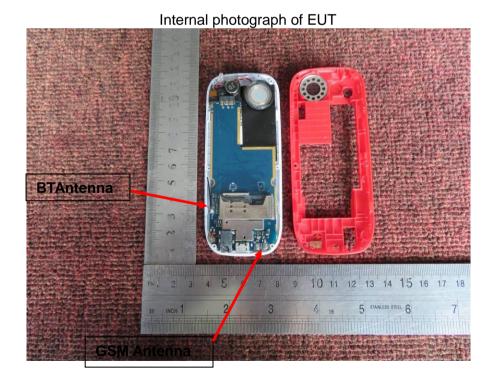




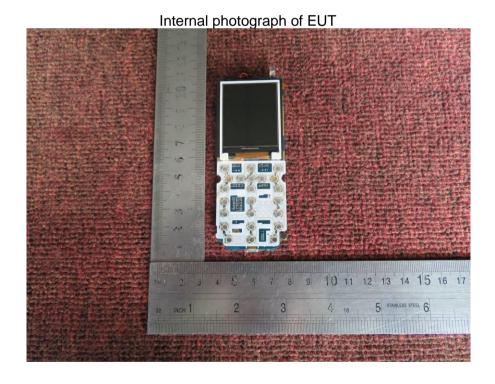


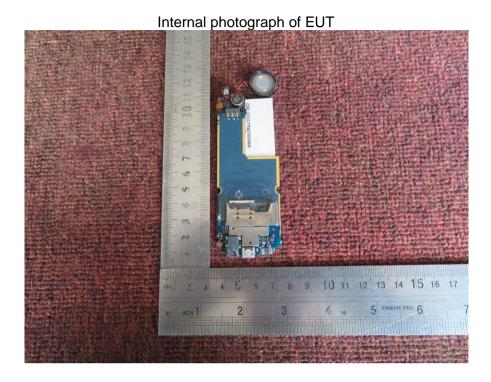


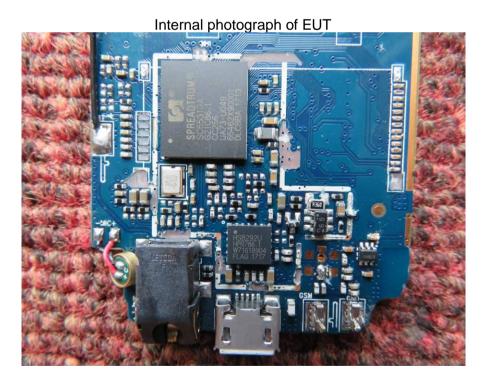












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