
FCC Test Report

Report No.: AGC00146150701FE07

FCC ID : 2AE45NOIT18
APPLICATION PURPOSE : Original Equipment
PRODUCT DESIGNATION : 2G GSM Mobile Phone
BRAND NAME : Budget
MODEL NAME : Noit 18
CLIENT : NOITAVONNE INSTRUMENTS INC.
DATE OF ISSUE : July 16, 2015
STANDARD(S) : FCC Part 15 Rules
REPORT VERSION : V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd



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Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	July 16, 2015	Valid	Original Report

TABLE OF CONTENTS

1. VERIFICATION OF CONFORMITY	4
2. SYSTEM DESCRIPTION	5
3. MEASUREMENT UNCERTAINTY.....	5
4. PRODUCT INFORMATION	6
5. SUPPORT EQUIPMENT.....	7
6. TEST FACILITY	8
7. FCCLINE CONDUCTED EMISSION TEST	10
7.1. LIMITS OF LINE CONDUCTED EMISSION TEST	10
7.2. BLOCK DIAGRAM OF TEST SETUP	10
7.3. PROCEDURE OF LINE CONDUCTED EMISSION TEST	11
7.4. TEST RESULT OF LINE CONDUCTED EMISSION TEST	12
8. FCC RADIATED EMISSION TEST.....	14
8.1. LIMITS OF RADIATED EMISSION TEST	14
8.2. BLOCK DIAGRAM OF TEST SETUP	14
8.3. PROCEDURE OF RADIATED EMISSION TEST	15
8.4. TEST RESULT OF RADIATED EMISSION TEST	16
APPENDIX A: PHOTOGRAPHS OF TEST SETUP	18
APPENDIX B: PHOTOGRAPHS OF EUT	19

1. VERIFICATION OF CONFORMITY

Applicant	NOITAVONNE INSTRUMENTS INC.
Address	11104 W. Airport Blvd. #225 Stafford, TX 77477, USA
Manufacturer	SHENZHEN YOUSHI TECHNOLOGY CO., LTD.
Address	No19, Baofa Street, Jewel Science Park, Building Qiaojiao West Road, Jiaoyitang Village, Tangxia Town, Dongguan City
Product Designation	2G GSM Mobile Phone
Brand Name	Budget
Test Model	Noit 18
Measurement Procedure	ANSI C63.4: 2009
Date of test	July 06,2015 to July 13,2015
Deviation	None
Condition of Test Sample	Normal
Report Template	AGCRT-US-IT/AC

The above equipment was tested by Dongguan Precise Testing Service Co., Ltd. for compliance with the requirements set forth in the FCC Rules and Regulations Part 15, the measurement procedure according to ANSI C63.4:2009. This said equipment in the configuration described in this report shows the maximum emission levels emanating from equipment are within the compliance requirements.

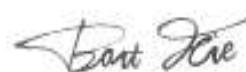
The test results of this report relate only to the tested sample identified in this report.

Prepared By



Matt Zhang July 16, 2015

Checked By



Bart Xie July 16, 2015

Authorized By



Solger Zhang July 16, 2015

2. SYSTEM DESCRIPTION

EUT test procedure:

1. Connect EUT and peripheral devices (PC) through USB port.
2. Power on the EUT, use the software to transfer data between EUT and PC.
3. Make sure the EUT operates normally during the test.

Test Mode

TEST MODE DESCRIPTION		
NO.	TEST MODE DESCRIPTION	WORST
1	USB (connection for data transferring)	V

Note:

- 1.V means EMI worst mode
- 2 .Other modes have been verified through VOC mode.
- 3. USB cable is provided by AGC-Lab.

3. MEASUREMENT UNCERTAINTY

The uncertainty is calculated using the methods suggested in the "Guide to the Expression of Uncertainty in Measurement" (GUM) published by ISO.

Conducted measurement: +/- 2.75dB

Radiated measurement: +/- 3.2Db

Summary Of Test Results

FCC Rules	Description Of Test	Result
§15.107	Conduction Emission	Compliant
§15.109	Radiated Emission	Compliant

4. PRODUCT INFORMATION

Housing Type	plastics
Adapter Input	AC100-240V, 50-60Hz, 0.1A
Adapter Output	DC5V, 500mA

I/O Port Information (Applicable Not Applicable)

I/O Port of EUT			
I/O Port Type	Q'TY	Cable	Tested with
USB Port	1	N/A	N/A
Earphone Port	1	1.0 m, unshielded	1

5. SUPPORT EQUIPMENT

Device Type	Manufacturer	Model Name	Serial No.	Data Cable	Power Cable
Notebook	Lenovo	B460	WB03928113	1	1.5m unshielded

Note: All the above equipment/cables were placed in worse case positions to maximize emission signals during emission test.

6. TEST FACILITY

Site	Dongguan Precise Testing Service Co., Ltd.
Location	Building D, Baoding Technology Park, Guangming Road2,Dongcheng District, Dongguan, Guangdong, China,
FCC Registration No.	371540
Description	The test site is constructed and calibrated to meet the FCC requirements in documents ANSI C63.4:2009.

ALL TEST EQUIPMENT LIST

FOR RADIATED EMISSION TEST (BELOW 1GHZ)

Radiated Emission Test Site					
Name of Equipment	Manufacturer	Model Number	Serial Number	Last Calibration	Due Calibration
EMI Test Receiver	Rohde & Schwarz	ESCI	101417	July 4, 2015	July 3, 2016
Trilog Broadband Antenna (25M-1GHz)	SCHWARZBECK	VULB9160	9160-3355	July 4, 2015	July 3, 2016
Signal Amplifier	SCHWARZBECK	BBV 9475	9745-0013	July 4, 2015	July 3, 2016
RF Cable	SCHWARZBECK	AK9515E	96221	July 4, 2015	July 3, 2016
3m Anechoic Chamber	CHENGYU	966	PTS-001	June 6, 2015	June 5, 2016
MULTI-DEVICE Positioning Controller	Max-Full	MF-7802	MF780208339	N/A	N/A
Active loop antenna (9K-30MHz)	Schwarzbeck	FMZB1519	1519-038	June 6, 2015	June 5, 2016
Spectrum analyzer	Agilent	E4407B	MY46185649	June 6, 2015	June 5, 2016

FOR RADIATED EMISSION TEST (1GHZ ABOVE)

Radiated Emission Test Site					
Name of Equipment	Manufacturer	Model Number	Serial Number	Last Calibration	Due Calibration
EMI Test Receiver	Rohde & Schwarz	ESCI	101417	July 4, 2015	July 3, 2016
Horn Antenna (1G-18GHz)	SCHWARZBECK	BBHA9120D	9120D-1246	July 12, 2014	July 11, 2015
Horn Antenna (1G-18GHz)	SCHWARZBECK	BBHA9120D	9120D-1246	July 11, 2015	July 10, 2016
Spectrum Analyzer	Agilent	E4411B	MY4511453	July 4, 2015	July 3, 2016
Signal Amplifier	SCHWARZBECK	BBV 9718	9718-269	July 8, 2014	July 7, 2015
Signal Amplifier	SCHWARZBECK	BBV 9718	9718-269	July 7, 2015	July 6, 2016

RF Cable	SCHWARZBECK	AK9515H	96220	July 9, 2014	July 8, 2015
RF Cable	SCHWARZBECK	AK9515H	96220	July 8, 2015	July 7, 2016
3m Anechoic Chamber	CHENGYU	966	PTS-001	June 6, 2015	June 5, 2016
MULTI-DEVICE Positioning Controller	Max-Full	MF-7802	MF780208339	N/A	N/A
Horn Ant (18G-40GHz)	Schwarzbeck	BBHA 9170	9170-181	June 6, 2015	June 5, 2016

Conducted Emission Test Site					
Name of Equipment	Manufacturer	Model Number	Serial Number	Last Calibration	Due Calibration
EMI Test Receiver	Rohde & Schwarz	ESCI	101417	July 4, 2015	July 3, 2016
Artificial Mains Network	Narda	L2-16B	000WX31025	July 9, 2014	July 8, 2015
Artificial Mains Network	Narda	L2-16B	000WX31025	July 8, 2015	July 7, 2016
Artificial Mains Network (AUX)	Narda	L2-16B	000WX31026	July 9, 2014	July 8, 2015
Artificial Mains Network (AUX)	Narda	L2-16B	000WX31026	July 8, 2015	July 7, 2016
RF Cable	SCHWARZBECK	AK9515E	96222	July 4, 2015	July 3, 2016
Shielded Room	CHENGYU	843	PTS-002	June 6,2015	June 5,2016

7. FCC LINE CONDUCTED EMISSION TEST

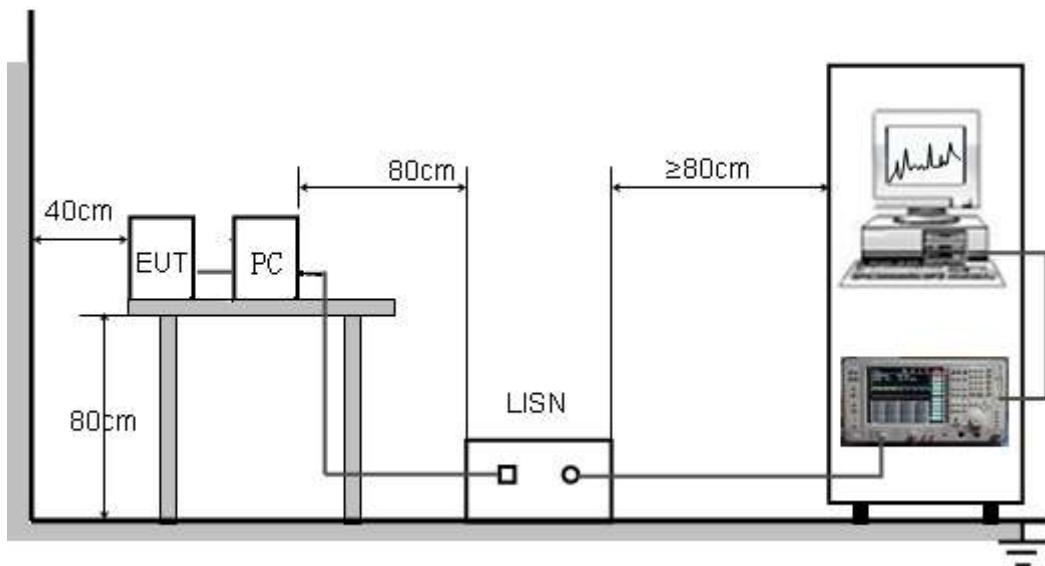
7.1. LIMITS OF LINE CONDUCTED EMISSION TEST

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 0.50MHz.

7.2. BLOCK DIAGRAM OF TEST SETUP

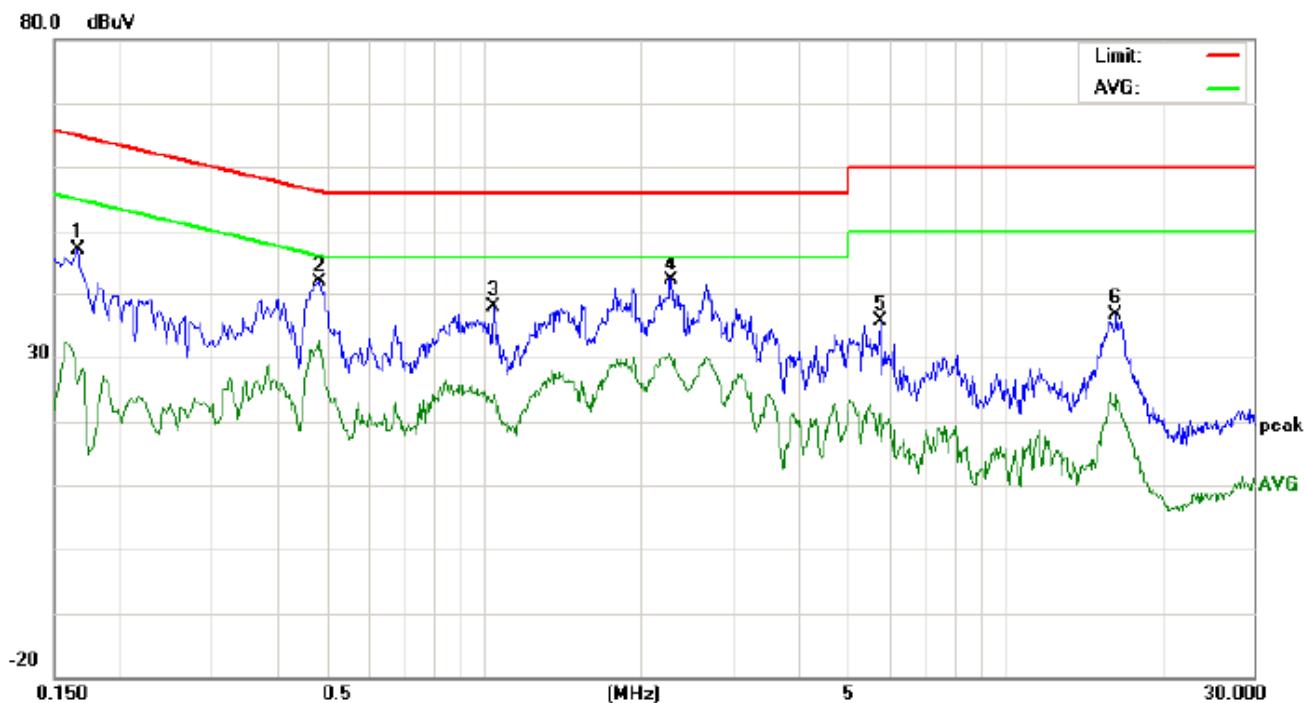


7.3. PROCEDURE OF LINE CONDUCTED EMISSION TEST

- (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 C63.4 (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 C63.4.
- (3) All I/O cables were positioned to simulate typical actual usage as per ANSI C63.4.
- (4) The EUT received DC5V power from PC with receive 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.

The test data of the worst case condition (mode 1) was reported on the Summary Data page.

7.4. TEST RESULT OF LINE CONDUCTED EMISSION TEST
LINE CONDUCTED EMISSION TEST-L

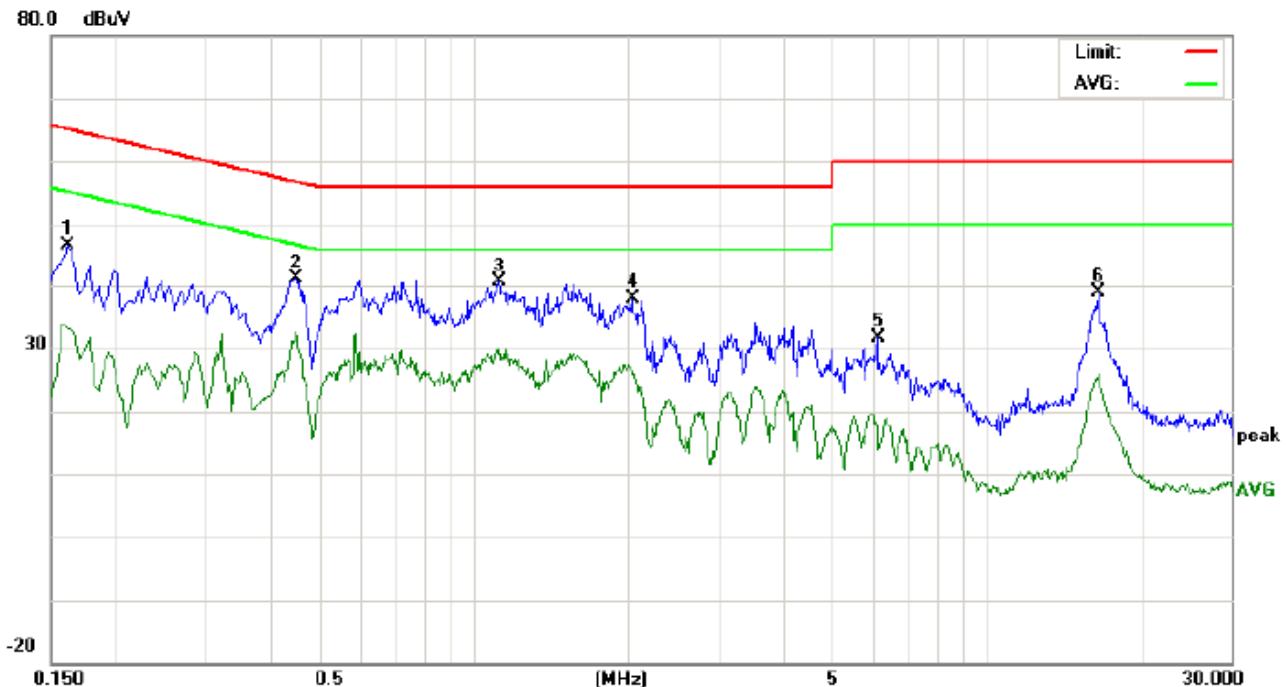


Site: Conduction Phase: **L1** Temperature: 24.5
 Limit: FCC Class B Conduction(QP) Power: AC 120V/60Hz Humidity: 51.7 %
 EUT: 2G GSM Mobile Phone
 M/N: Noit 18
 Mode: USB
 Note:

No.	Freq. (MHz)	Reading_Level (dBuV)			Correct Factor	Measurement (dBuV)			Limit (dBuV)		Margin (dB)		P/F	Comment
		Peak	QP	AVG		dB	Peak	QP	AVG	QP	AVG	QP	AVG	
1	0.1660	37.07		15.68	10.18	47.25		25.86	65.15	55.15	-17.90	-29.29	P	
2	0.4860	31.48		20.78	10.39	41.87		31.17	56.24	46.24	-14.37	-15.07	P	
3	1.0460	27.60		13.88	10.37	37.97		24.25	56.00	46.00	-18.03	-21.75	P	
4	2.2940	31.86		19.89	10.34	42.20		30.23	56.00	46.00	-13.80	-15.77	P	
5	5.7538	25.28		11.10	10.27	35.55		21.37	60.00	50.00	-24.45	-28.63	P	
6	16.3498	26.43		14.06	10.12	36.55		24.18	60.00	50.00	-23.45	-25.82	P	

RESULT: PASS

LINE CONDUCTED EMISSION TEST-N



Site: Conduction Phase: **N** Temperature: 24.5
 Limit: FCC Class B Conduction(QP) Power: AC 120V/60Hz Humidity: 51.7 %
 EUT: 2G GSM Mobile Phone
 M/N: Noit 18
 Mode: USB
 Note:

No.	Freq. (MHz)	Reading_Level (dBuV)			Correct Factor	Measurement (dBuV)			Limit (dBuV)		Margin (dB)		P/F	Comment
		Peak	QP	AVG		Peak	QP	AVG	QP	AVG	QP	AVG		
1	0.1620	36.49		22.95	10.17	46.66		33.12	65.36	55.36	-18.70	-22.24	P	
2	0.4500	30.68		22.26	10.37	41.05		32.63	56.87	46.87	-15.82	-14.24	P	
3	1.1180	30.25		19.46	10.37	40.62		29.83	56.00	46.00	-15.38	-16.17	P	
4	2.0380	27.65		15.90	10.24	37.89		26.14	56.00	46.00	-18.11	-19.86	P	
5	6.1259	21.25		7.53	10.28	31.53		17.81	60.00	50.00	-28.47	-32.19	P	
6	16.5459	28.67		15.68	10.12	38.79		25.80	60.00	50.00	-21.21	-24.20	P	

RESULT: PASS

8. FCC RADIATED EMISSION TEST

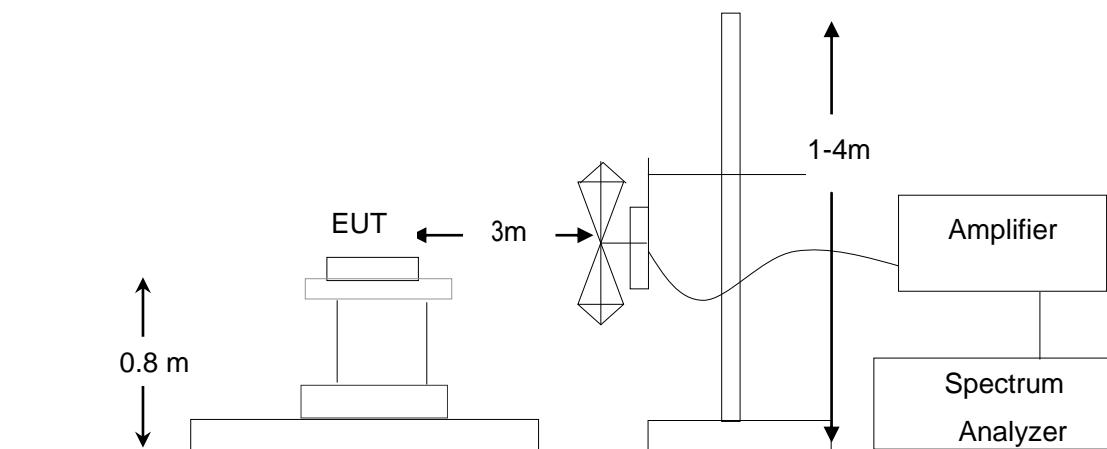
8.1. LIMITS OF RADIATED EMISSION TEST

Frequency (MHz)	Distance (m)	Maximum Field Strength Limit (dBuV/m/ Q.P.)
30~88	3	40.0
88~216	3	43.5
216~960	3	46.0
Above 960	3	54.0

Note: The lower limit shall apply at the transition frequency.

8.2. BLOCK DIAGRAM OF TEST SETUP

System Diagram of Connections between EUT and Simulators



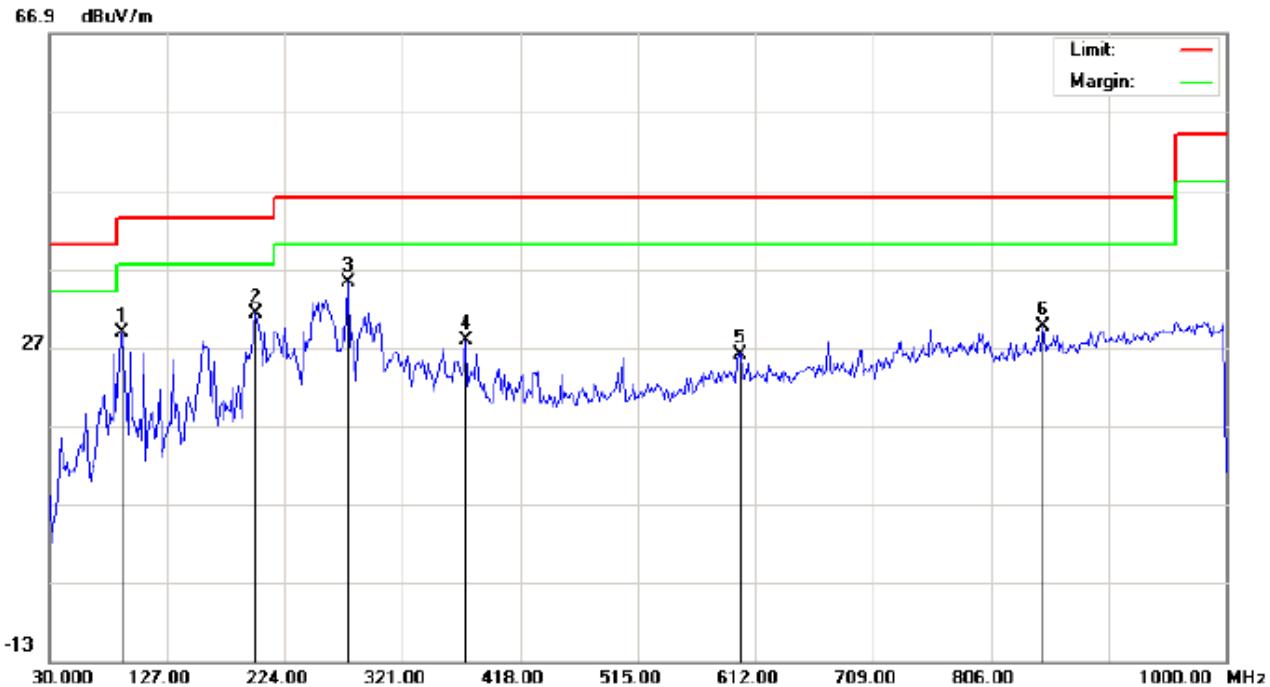
8.3. PROCEDURE OF RADIATED EMISSION TEST

- (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 turntable with a height of 0.8 meters is used which is placed on the ground plane as per ANSI C63.4 (see Test Facility for the dimensions of the ground plane used). When the EUT is 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 C63.4.
- (3) All I/O cables were positioned to simulate typical actual usage as per ANSI C63.4.
- (4) The EUT received DC 5V power from PC with receive AC120V/60Hz power from socket under the turntable through a LISN.
- (5) The antenna was placed at 3 meter away from the EUT as stated in FCC Part 15. The antenna connected to the Analyzer via a cable and at times a pre-amplifier would be used.
- (6) The Analyzer / Receiver quickly scanned from 30MHz to 1000MHz. The EUT test program was started. Emissions were scanned and measured rotating the EUT to 360 degrees and positioning the antenna 1 to 4 meters above the ground plane, in both the vertical and the horizontal polarization, to maximize the emission reading level.
- (7) The test mode(s) were scanned during the test:
- (8) Recorded at least the six highest emissions. Emission frequency, amplitude, antenna position, polarization and turntable position were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit and Q.P./Peak reading is presented.

The test data of the worst case condition (mode 1) was reported on the Summary Data page.

8.4. TEST RESULT OF RADIATED EMISSION TEST

Radiated Emission Test at 3m Distance-Horizontal



Site: site #1
Limit: FCC Class B 3M Radiation
EUT: 2G GSM Mobile Phone
M/N: Noit 18
Mode: USB
Note:

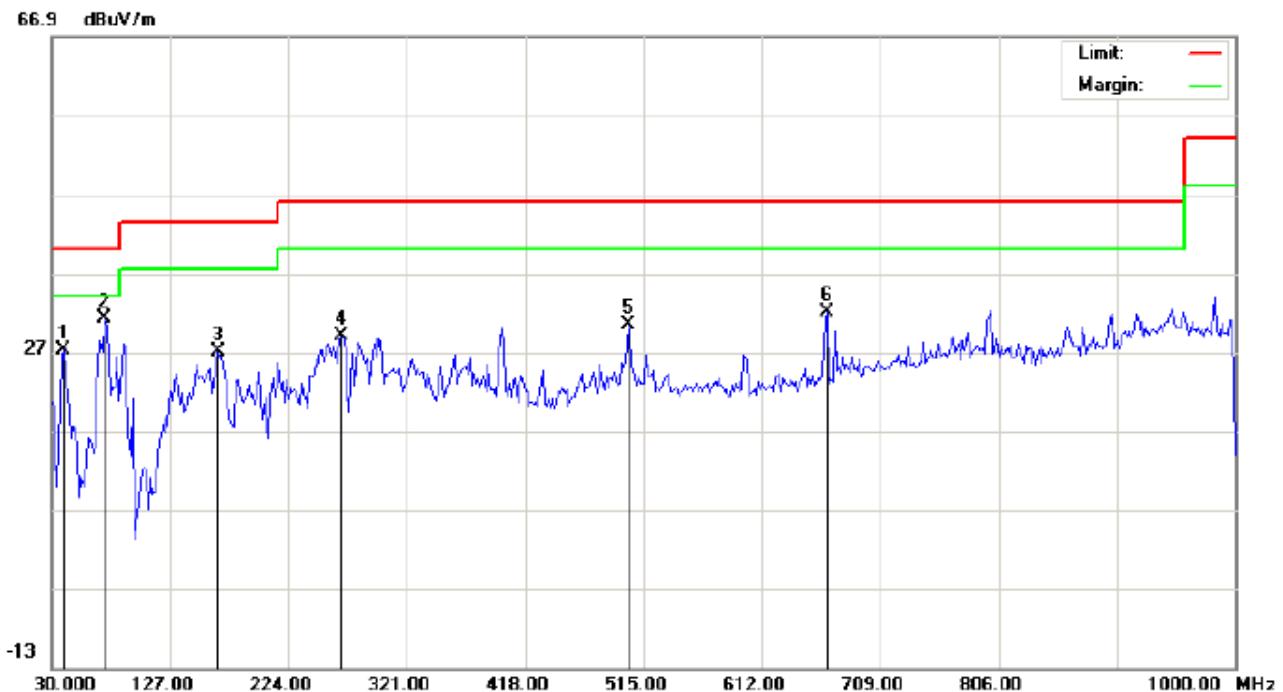
Polarization: **Horizontal**
Power: AC 120V/60Hz
Distance: 3m

Temperature: 24.3
Humidity: 52.6 %

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		89.8167	19.32	9.39	28.71	43.50	-14.79	peak			
2		199.7500	19.13	11.99	31.12	43.50	-12.38	peak			
3	*	275.7333	20.61	14.68	35.29	46.00	-10.71	peak			
4		372.7333	8.84	18.89	27.73	46.00	-18.27	peak			
5		599.0667	2.39	23.71	26.10	46.00	-19.90	peak			
6		849.6500	2.25	27.31	29.56	46.00	-16.44	peak			

RESULT: PASS

Radiated Emission Test at 3m Distance-Vertical



Site: site #1 Polarization: **Vertical** Temperature: 24.3
Limit: FCC Class B 3M Radiation Power: AC 120V/60Hz Humidity: 52.6 %
EUT: 2G GSM Mobile Phone Distance: 3m
M/N: Noit 18
Mode: USB
Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		39.7000	18.72	8.51	27.23	40.00	-12.77	peak			
2	*	73.6500	27.87	3.36	31.23	40.00	-8.77	peak			
3		165.8000	12.13	14.96	27.09	43.50	-16.41	peak			
4		267.6500	14.62	14.43	29.05	46.00	-16.95	peak			
5		502.0667	9.19	21.19	30.38	46.00	-15.62	peak			
6		665.3500	7.75	24.26	32.01	46.00	-13.99	peak			

RESULT: PASS

Note: All Other modes above 1GHz have more than 20db margin, no recording in the report

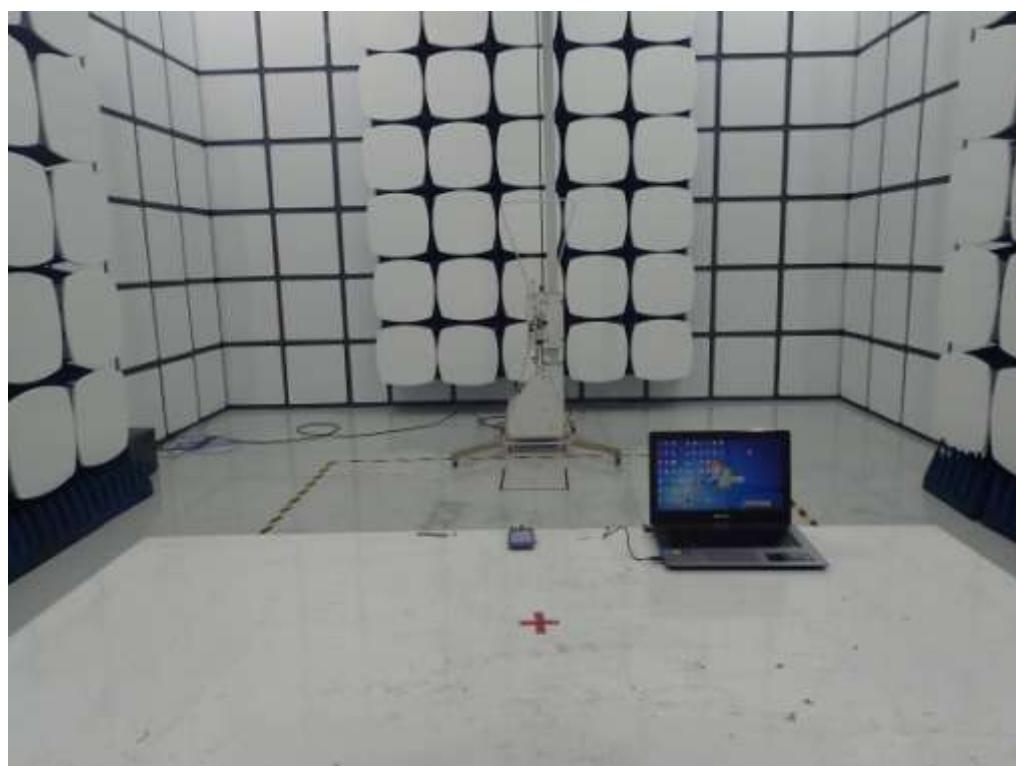
Measurement = Reading + Factor, Over = Measurement – Limit.

APPENDIX A: PHOTOGRAPHS OF TEST SETUP

FCC LINE CONDUCTED EMISSION TEST SETUP



FCC RADIATED EMISSION TEST SETUP



APPENDIX B: PHOTOGRAPHS OF EUT
TOTAL VIEW OF EUT



TOP VIEW OF EUT



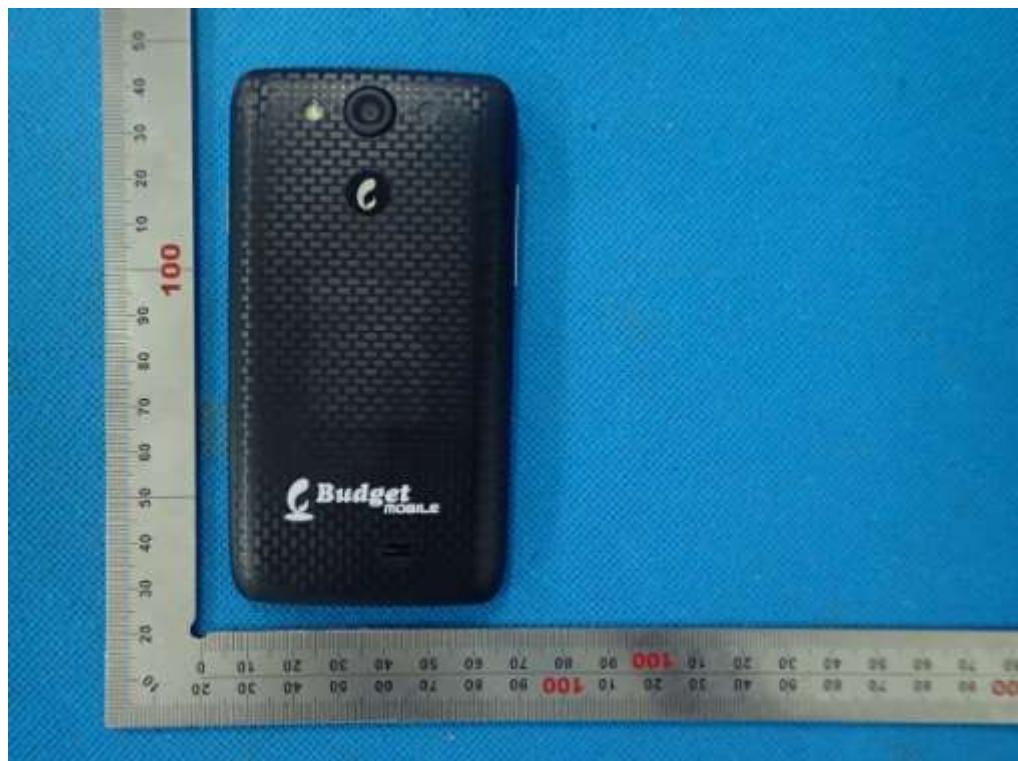
BOTTOM VIEW OF EUT



FRONT VIEW OF EUT



BACK VIEW OF EUT



LEFT VIEW OF EUT



RIGHT VIEW OF EUT



BT&WIFI
Antenna

OPEN VIEW OF EUT-1



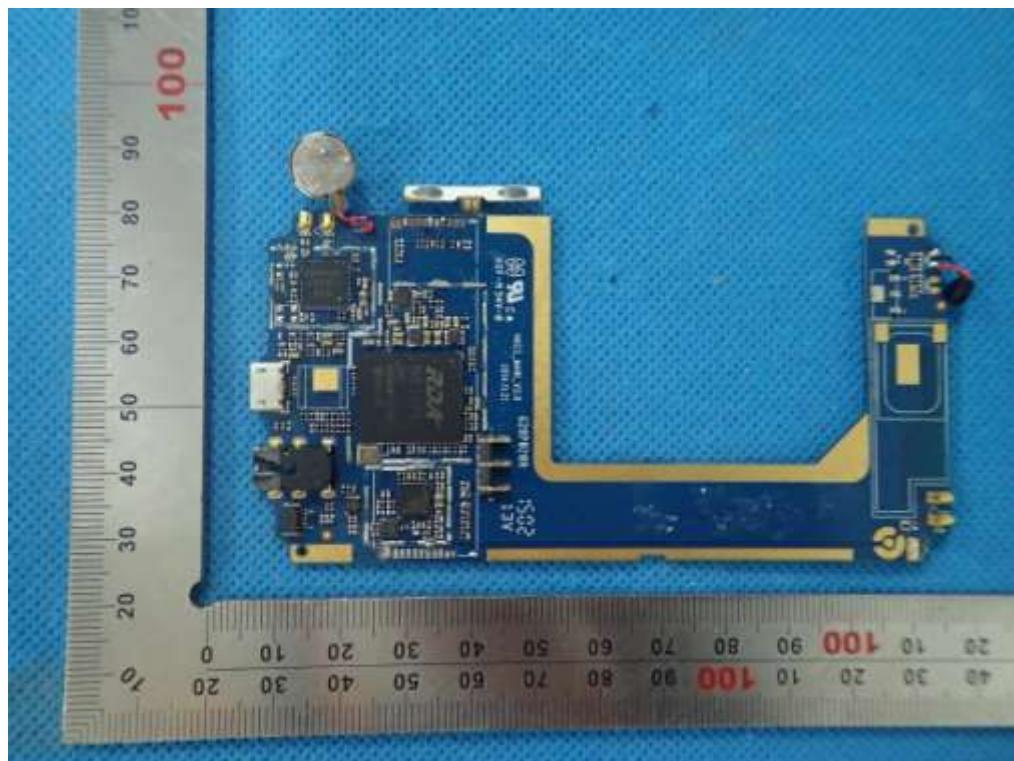
OPEN VIEW OF EUT-2



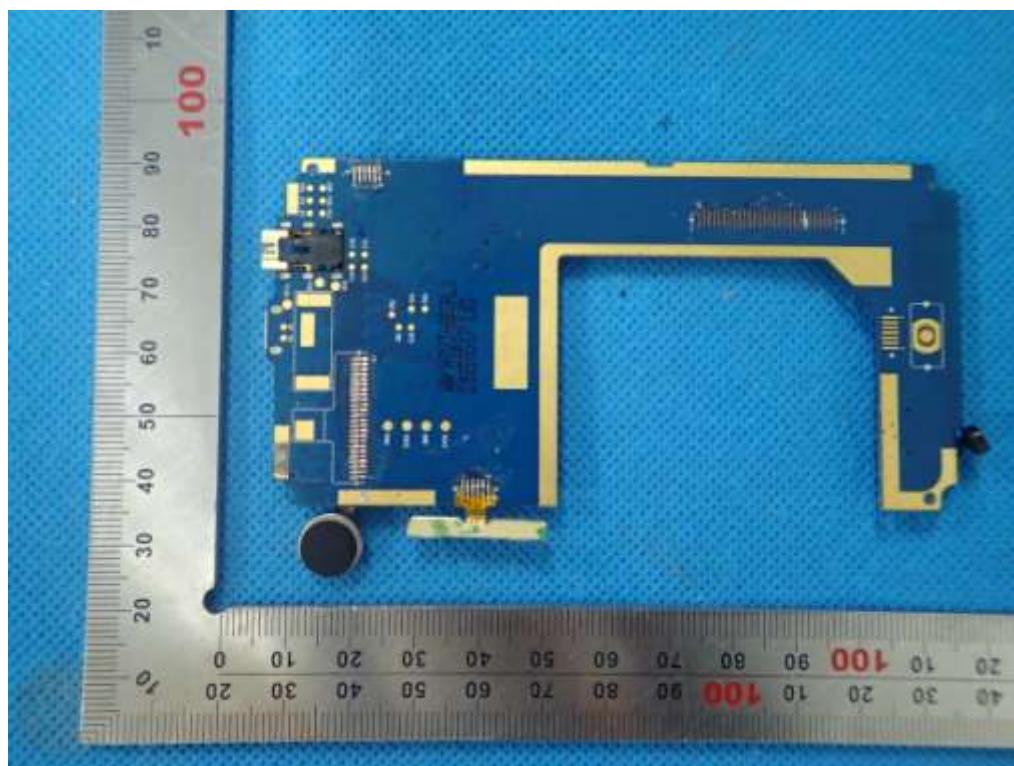
OPEN VIEW OF EUT-3



INTERNAL VIEW OF EUT-1



INTERNAL VIEW OF EUT-2



----END OF REPORT----