
FCC Test Report

Report No.: AGC06P120901F1

FCC ID : UOSAM62

PRODUCT DESIGNATION : Mobile Phone

BRAND NAME : AMGOO

MODEL NAME : AM62

CLIENT : Amgoo Telecom Co., Ltd.

DATE OF ISSUE : Sep. 24, 2012

STANDARD(S) : FCC Part 15 Rules

Attestation of Global Compliance Co., Ltd.

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1. VERIFICATION OF COMPLIANCE

Applicant:	Amgoo Telecom Co., Ltd. 6/F,Block 3,Tongjian Building,NO.2013,Middle Shennan Rd., Futian District,Shenzhen,China
Manufacturer:	Topology Communication Technology(Shenzhen)CO.,LTD KaiXinDa Technology Park,No.49 Zhou Shi Road, Shiyan County,Bao'an District,Shenzhen,China
Product Designation:	Mobile Phone
Brand name:	AMGOO
Model Name:	AM62
FCC ID:	UOSAM62
Measurement Procedure:	ANSI C63.4:2003
File Number:	AGC06P120901F1
Date of test:	Sep. 17, 2012 to Sep. 21, 2012
Deviation:	None
Condition of Test Sample:	Normal

The above equipment was tested by Attestation Of Global Compliance Co., Ltd. for compliance with the requirements set forth in the FCC Rules and Regulations Part 15, the measurement procedure according to ANSI C63.4:2003. This said equipment in the configuration described in this report shows the maximum emission levels emanating from equipment are within the compliance requirements.

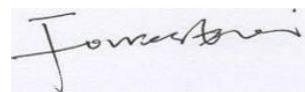
The test results of this report relate only to the tested sample identified in this report.

Tested By :



Bart Xie Sep. 24, 2012

Reviewed By :



Forrest Lei Sep. 24, 2012

Approved By:



Solger Zhang Sep. 24, 2012

2. PRODUCT INFORMATION

Housing Type: Plastic
EUT Rating Voltage: DC 3.7V by battery
Adapter Input AC100~240V,50/60Hz
Adapter output DC 5V, 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	1.2m shielded with 1 cord	1
EARPHONE PORT	1	1.3m unshielded	1

3. TEST FACILITY

Facility	Attestation of Global Compliance Co., Ltd.
Location:	1F, No.2 Building, Huafeng No.1 Technical, Industrial Park, Sanwei, Xixiang, Baoan District, Shenzhen, China
Description:	The test site is constructed and calibrated to meet the FCC requirements in documents ANSI C63.4:2003.
Site Filing:	The FCC Registration Number is 259865
Instrument Tolerance:	All measuring equipment is in accord with ANSI C63.4 requirements that meet industry regulatory agency and accreditation agency requirement.

4. SUPPORT EQUIPMENT LIST

Device Type	Manufacturer	Model Name	Serial No.	Data Cable	Power Cable
PC	Dell	Inpiron N4110	N/A	N/A	1.5m unshielded

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

5. SYSTEM DESCRIPTION

EUT test procedure:

1. Connect EUT and peripheral devices (if need).
2. Power on the EUT, the EUT begins to work.
3. Make sure the EUT operates normally during the test.

Test Mode

1. USB (connection for date transferring)
Other modes have been tested via the procedure of verification of confirm.

6 SUMMARY OF TEST RESULTS

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

Measurement uncertainty:

Conducted measurement: +/- 2.75dB

Radiated measurement: +/- 3.2dB

7. FCC LINE CONDUCTED EMISSION TEST

7.1. TEST EQUIPMENT OF LINE CONDUCTED EMISSION TEST

Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESCI	N/A	2012.7.18	2013.7.17
LISN	R&S	ESH3-Z5	N/A	2012.7.18	2013.7.17
AMN	R&S	ESH2-Z5	862060/020	2012.7.18	2013.7.17

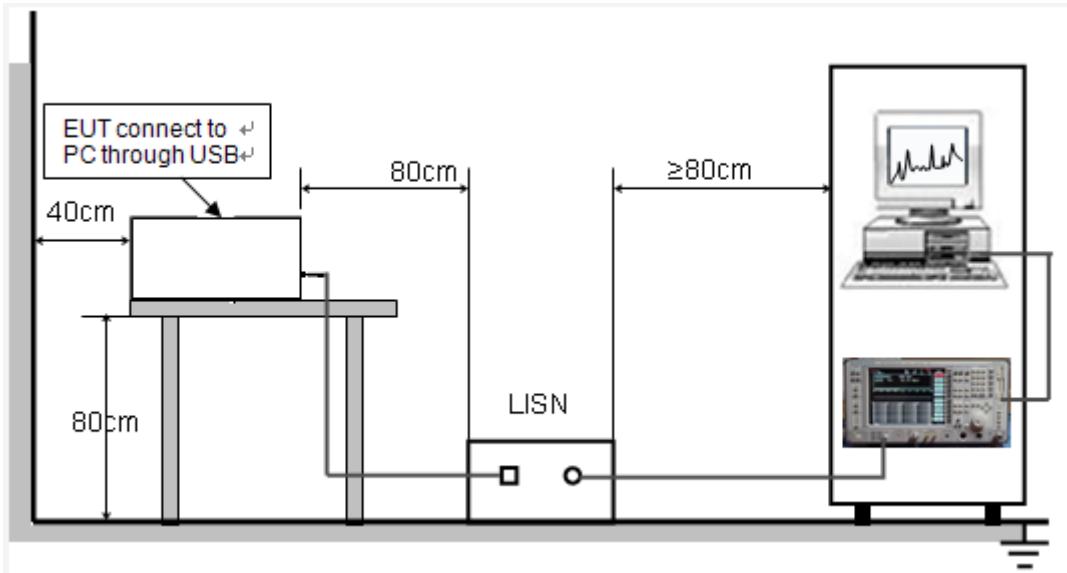
7.2 .LIMITS OF LINE CONDUCTED EMISSION TEST

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

7.3. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST

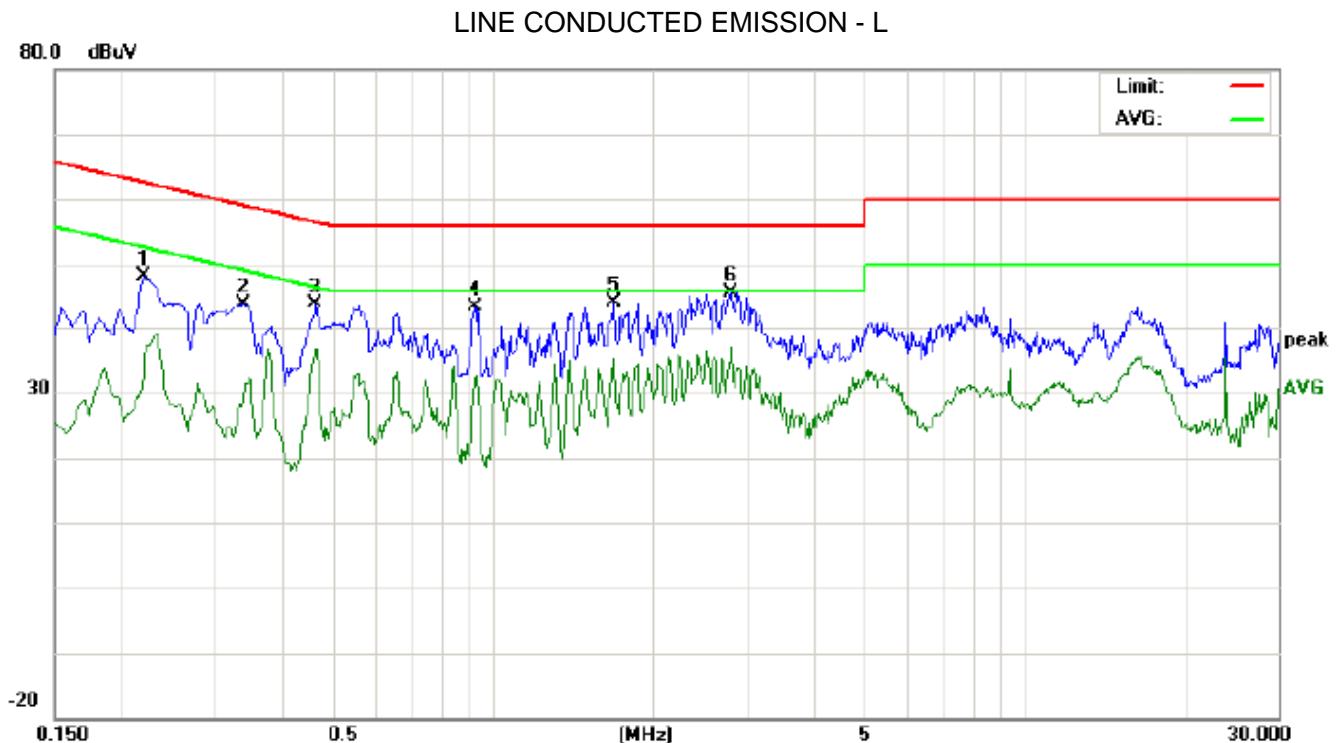


7.4. PROCEDURE OF LINE CONDUCTED EMISSION TEST

- 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 120V/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.

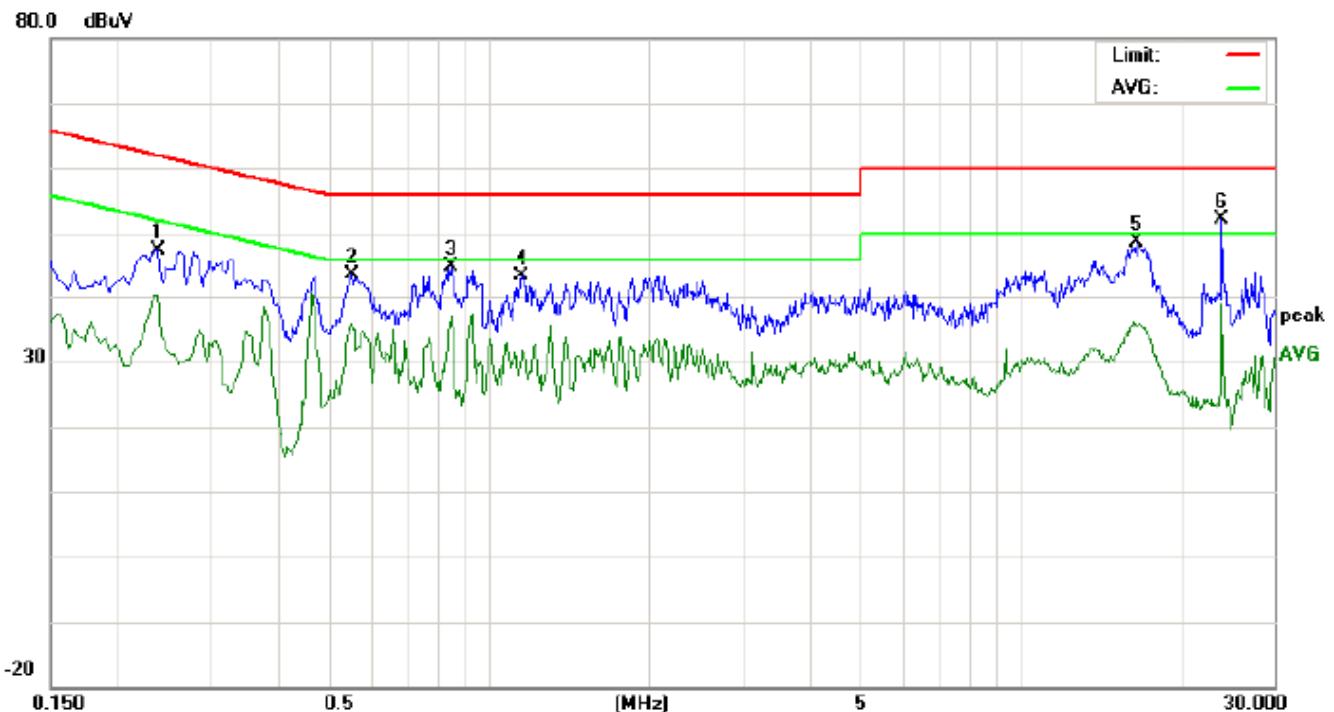
7.5 TEST RESULT OF LINE CONDUCTED EMISSION TEST



Site: Conduction Phase: **L1** Temperature: 26
 Limit: FCC Class B Conduction(QP) Power: AC 120V/60Hz Humidity: 60 %
 EUT: Mobile phone
 M/N: AM62
 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	0.2207	37.88		24.92	10.24	48.12		35.16	62.79	52.79	-14.67	-17.63	P	
2	0.3392	33.60		18.53	10.31	43.91		28.84	59.22	49.22	-15.31	-20.38	P	
3	0.4660	33.59		26.25	10.38	43.97		36.63	56.58	46.58	-12.61	-9.95	P	
4	0.9260	33.08		21.86	10.40	43.48		32.26	56.00	46.00	-12.52	-13.74	P	
5	1.6899	33.74		24.82	10.32	44.06		35.14	56.00	46.00	-11.94	-10.86	P	
6	2.8060	35.18		25.20	10.50	45.68		35.70	56.00	46.00	-10.32	-10.30	P	

LINE CONDUCTED EMISSION – N



Site: Conduction Phase: **N** Temperature: 26
 Limit: FCC Class B Conduction(QP) Power: AC 120V/60Hz Humidity: 60 %
 EUT: Mobile phone
 M/N: AM62
 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	0.2379	37.19		29.83	10.26	47.45		40.09	62.17	52.17	-14.72	-12.08	P	
2	0.5540	33.34		25.41	10.35	43.69		35.76	56.00	46.00	-12.31	-10.24	P	
3	0.8499	34.42		26.59	10.34	44.76		36.93	56.00	46.00	-11.24	-9.07	P	
4	1.1499	32.90		20.04	10.37	43.27		30.41	56.00	46.00	-12.73	-15.59	P	
5	16.5018	38.62		25.26	10.12	48.74		35.38	60.00	50.00	-11.26	-14.62	P	
6	23.9939	41.96		28.82	10.11	52.07		38.93	60.00	50.00	-7.93	-11.07	P	

8. FCC RADIATED EMISSION TEST

8.1. TEST EQUIPMENT OF RADIATED EMISSION

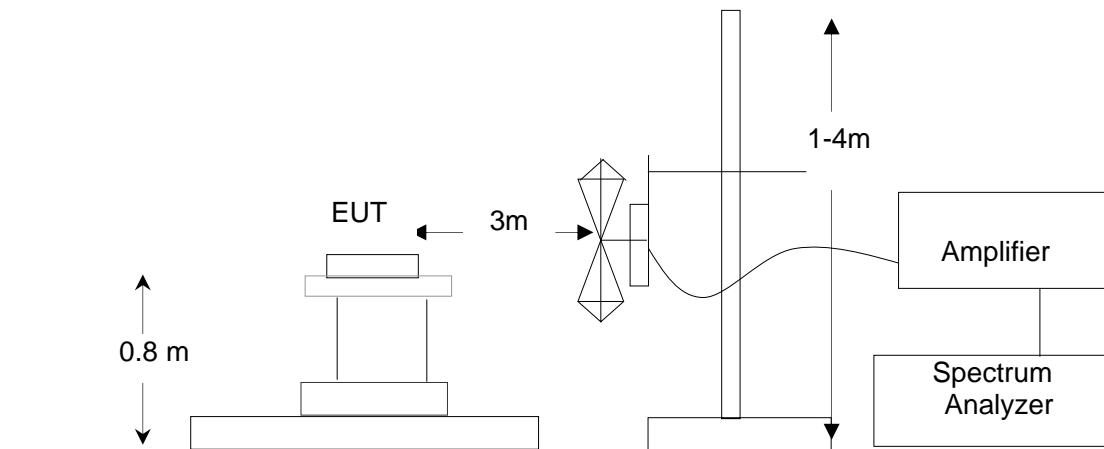
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
PSA SERIES SPECTRUM ANALYZER	AGILENT	E4440A	US41421290	06/27/2012	06/26/2013
ANTENNA	A.H.	SAS-521-4	128	06/27/2012	06/26/2013
HORN ANTENNA	EM	EM-AH-10180	N/A	06/27/2012	06/26/2013
AMPLIFIER	EM	EM30180	0607030	06/27/2012	06/26/2013
POSITIONING CONTROLLER	MF	MF-7802	MF780208147	06/27/2012	06/26/2013

8.2. 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.

8.3 BLOCK DIAGRAM OF RADIATED EMISSION TEST



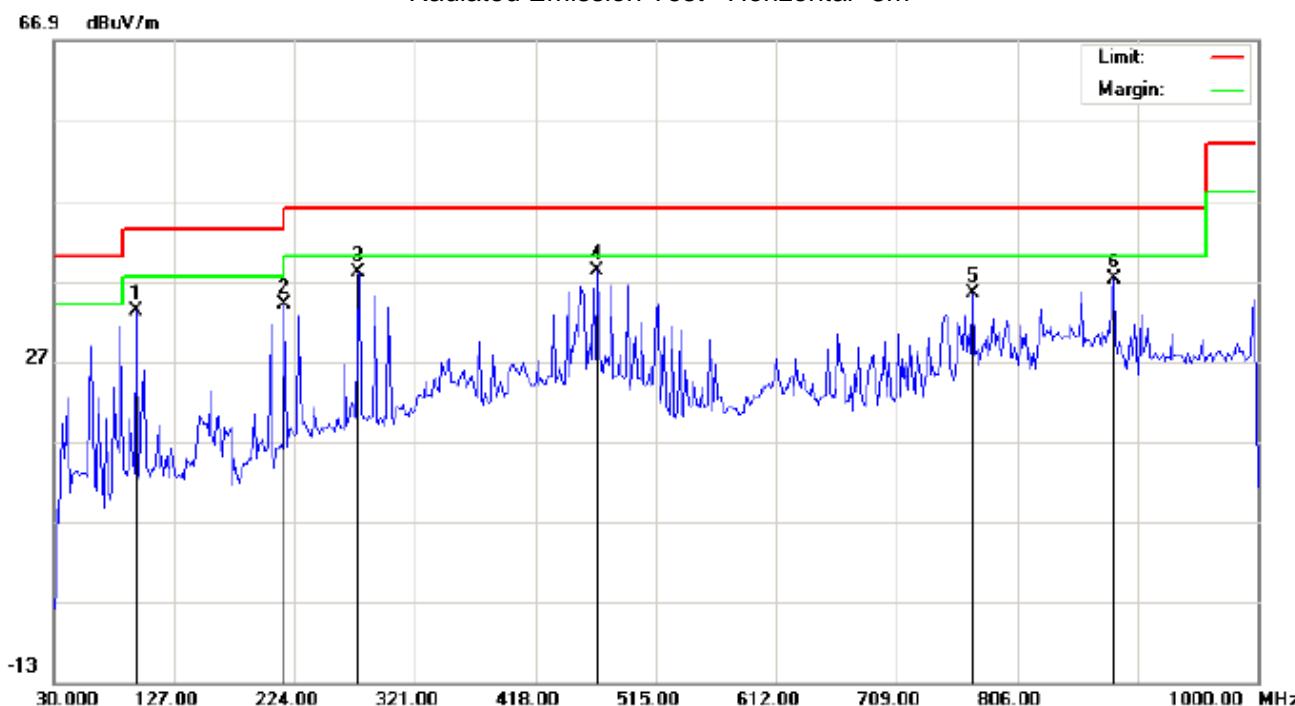
8.4 PROCEDURE OF RADIATED EMISSION TEST

- 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 120V/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.

8.5 TEST RESULT OF RADIATED EMISSION TEST

Radiated Emission Test –Horizontal -3m



Site: site #1
Limit: FCC Class B 3M Radiation
EUT: GSM Mmobile phone
M/N: AM62
Mode: USB
Note:

Polarization: *Horizontal*

Power: AC 120V/60Hz

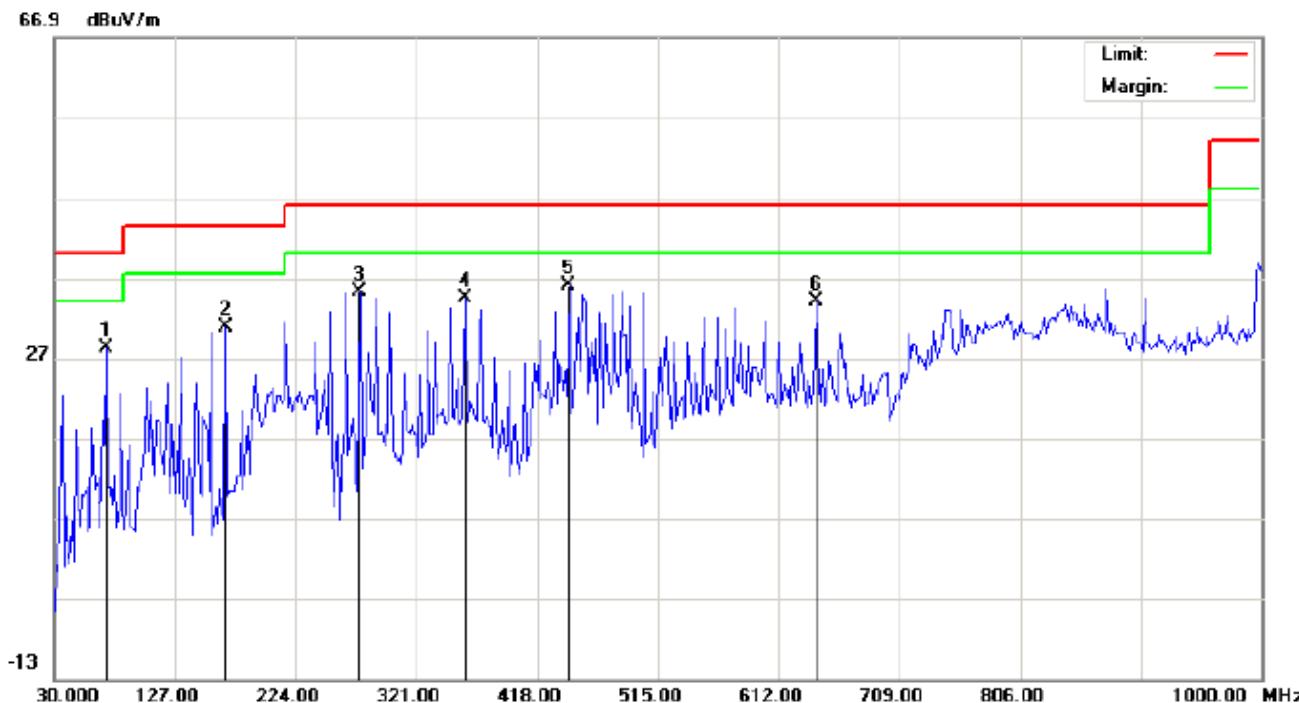
Temperature: 26

Humidity: 60 %

Distance: 3m

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		96.2831	19.11	14.16	33.27	43.50	-10.23	peak			
2		215.9165	23.06	10.93	33.99	43.50	-9.51	peak			
3		275.7332	20.90	17.20	38.10	46.00	-7.90	peak			
4	*	468.1166	16.61	21.58	38.19	46.00	-7.81	peak			
5		770.4333	7.62	27.85	35.47	46.00	-10.53	peak			
6		883.6000	8.36	28.77	37.13	46.00	-8.87	peak			

Radiated Emission Test –Vertical -3m



Site: site #1

Limit: FCC Class B 3M Radiation

EUT: GSM Mmobile phone

M/N: AM62

Mode: USB

Note:-

Polarization: *Vertical*

Power: AC 120V/60Hz

Temperature: 26

Humidity: 60 %

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		72.0331	24.73	3.45	28.18	40.00	-11.82	peak			
2		167.4165	19.07	11.69	30.76	43.50	-12.74	peak			
3		275.7332	18.03	17.20	35.23	46.00	-10.77	peak			
4		359.8000	15.25	19.11	34.36	46.00	-11.64	peak			
5	*	443.8666	14.50	21.49	35.99	46.00	-10.01	peak			
6		642.7164	9.47	24.61	34.08	46.00	-11.92	peak			

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

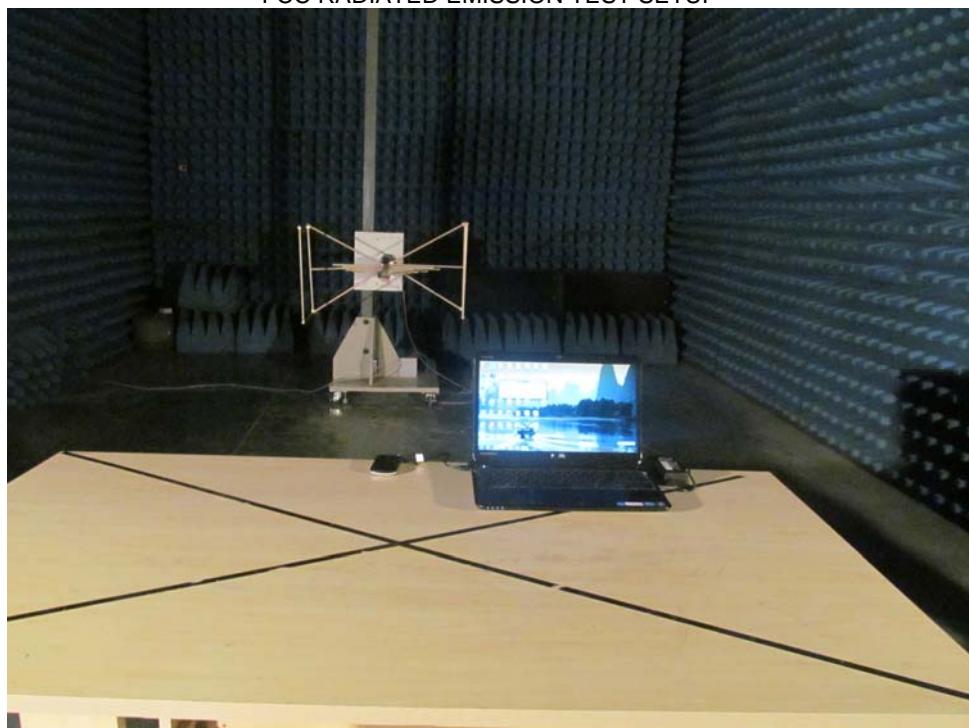
Measurement = Reading + Factor, Over = Measurement – Limit.

APPENDIX 1 PHOTOGRAPHS OF TEST SETUP

FCC LINE CONDUCTED EMISSION TEST SETUP



FCC RADIATED EMISSION TEST SETUP



APPENDIX 2 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



OPEN VIEW OF EUT-1



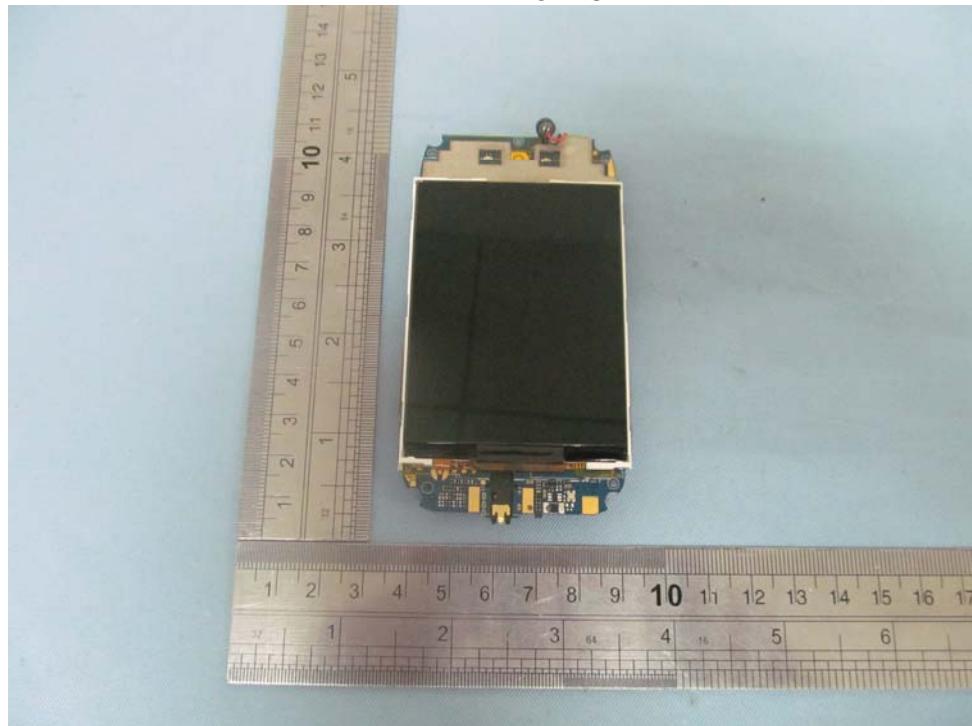
OPEN VIEW OF EUT-2



OPEN VIEW OF EUT-3



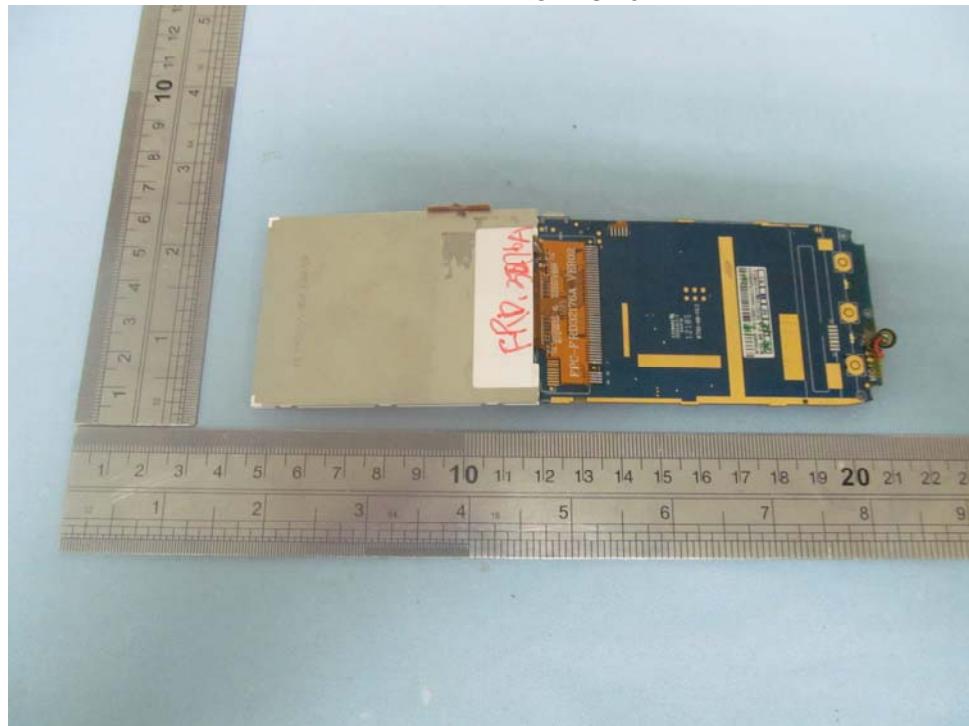
INTERNAL VIEW OF EUT-1



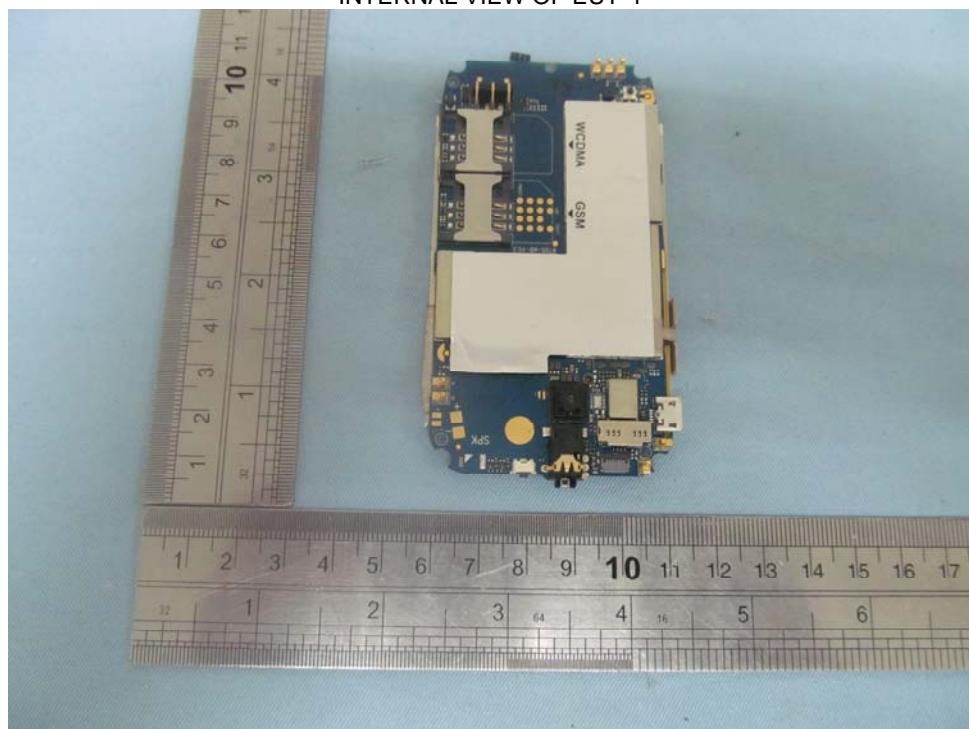
INTERNAL VIEW OF EUT-2



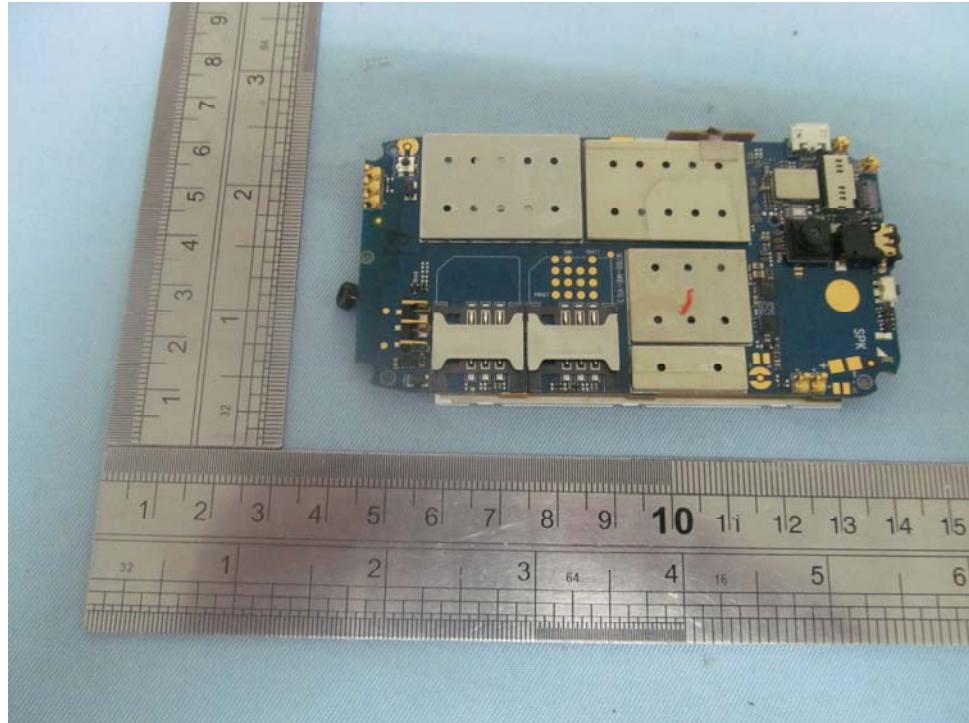
INTERNAL VIEW OF EUT-3



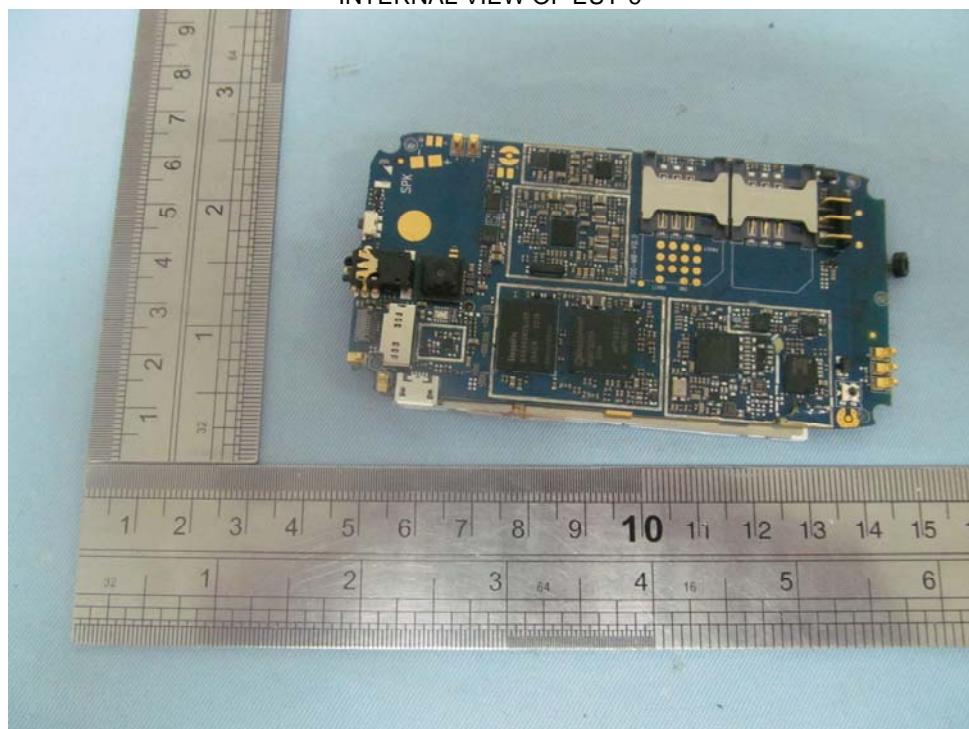
INTERNAL VIEW OF EUT-4



INTERNAL VIEW OF EUT-5



INTERNAL VIEW OF EUT-6



----END OF REPORT----