FCC Test Report

Report No.: AGC06P111201F1

FCC ID	: UOSAM89
PRODUCT DESIGNATION	: GSM Mobile Phone
BRAND NAME	: AMGOO
MODEL NAME	: AM89
CLIENT	: Amgoo Telecom Co., Ltd.
DATE OF ISSUE	: Dec.30, 2011
STANDARD(S)	: FCC Part 15 Rules

Attestation of Global Compliance Co., Ltd.

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1. VERIFICATION OF COMPLIANCE

	Amgoo Telecom Co., Ltd.						
Applicant:	6/F, Block 3, Tongjian Building, Middle Shennan Rd, Futian District,						
	Shenzhen, China						
	Amgoo Telecom Co., Ltd.						
Manufacturer:	6/F, Block 3, Tongjian Building, Middle Shennan Rd, Futian District,						
	Shenzhen, China						
Product Designation:	GSM Mobile Phone						
Brand name:	AMGOO						
Model Name:	AM89						
FCC ID:	UOSAM89						
Measurement Procedure:	ANSI C63.4: 2003						
File Number:	AGC06P111201F1						
Date of test:	Dec.27, 2011 to Dec.30, 2011						
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 :

Curoky chen

Curoky Chen Dec

Dec.30, 2011

Reviewed By :

overla

Dec.30, 2011

Approved By:

her Frong Go

Solger Zhang

Forrest Lei

Dec.30, 2011

2. PRODUCT INFORMATION

Housing Type:	Plastic
EUT Rating Voltage:	DC 3.7V by battery
Adapter Input	AC100~240V,50/60Hz,0.3A
Adapter Output	DC5.0V,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	1.0 m, unshielded	1						
Earphone	1	1.2m, 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 Ty	ре	Manufacturer Model Name		Serial No.	Data Cable	Power Cable	
PC		ASUS	A83S		N/A	1.8m 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 (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

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

Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due						
EMI Test Receiver	H.P.	8546A	N/A	06/27/2011	06/26/2012						
LISN	EMCO	3825/2	N/A	06/27/2011	06/26/2012						

7.1. TEST EQUIPMENT OF LINE CONDUCTED EMISSION TEST

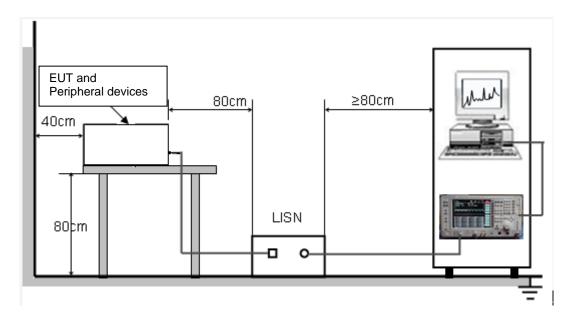
7.2 .LIMITS OF LINE CONDUCTED EMISSION TEST

_	Maximum RF 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 0.50 MHz

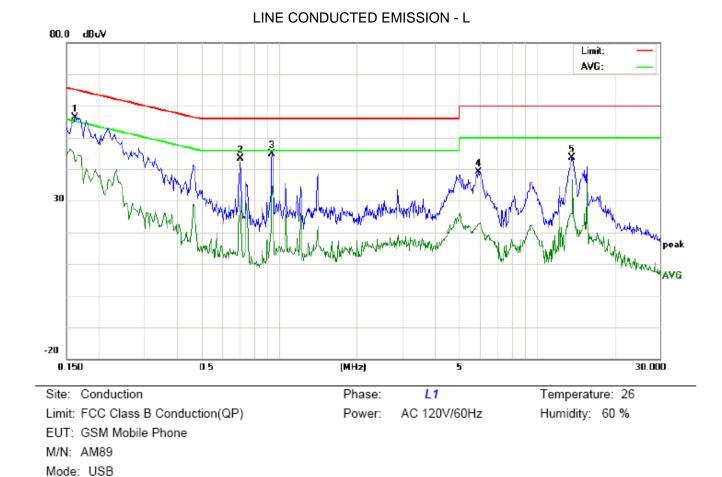
7.3. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST



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 connect to PC which received 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.

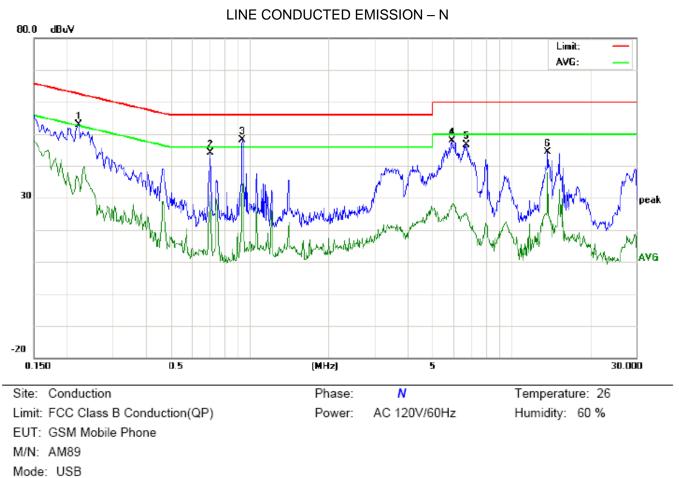
The test data of the worst case condition(s) was reported on the Summary Data page.



7.5 TEST RESULT OF LINE CONDUCTED EMISSION TEST

Note:

No.			ading_L (dBuV)		Correct Factor		easuren (dBuV)		1	nit uV)	Mai (c	rgin IB)	P/F	Comment
	(MHz)	Peak	QP	AVG	dB	Peak	QP	AVG	QP	AVG	QP	AVG		
1	0.1620	46.24		32.37	10.17	56.41		42.54	65.36	55.36	-8.95	-12.82	Р	
2	0.7100	33.09		20.09	10.34	43.43		30.43	56.00	46.00	-12.57	-15.57	Р	
3	0.9420	34.60		24.19	10.39	44.99		34.58	56.00	46.00	-11.01	-11.42	Р	
4	5.9419	28.74		12.70	10.28	39.02		22.98	60.00	50.00	-20.98	-27.02	Р	
5	13.6739	33.47		15.83	10.13	43.60		25.96	60.00	50.00	-16.40	-24.04	Р	



Note:

No.	Ja Freq. (ading_L (dBuV)		Correct Factor		asuren (dBuV)			nit uV)	Mai (c	rgin IB)	P/F	Comment
	(MHz)	Peak	QP	AVG	dB	Peak	QP	AVG	QP	AVG	QP	AVG		
1	0.2220	42.60		24.94	10.24	52.84		35.18	62.74	52.74	-9.90	-17.56	Ρ	
2	0.7059	33.82		20.42	10.35	44.17		30.77	56.00	46.00	-11.83	-15.23	Р	
3	0.9419	37.74		23.96	10.39	48.13		34.35	56.00	46.00	-7.87	-11.65	Ρ	
4	5.9298	37.57		17.17	10.28	47.85		27.45	60.00	50.00	-12.15	-22.55	Р	
5	6.7499	36.23		15.01	10.33	46.56		25.34	60.00	50.00	-13.44	-24.66	Р	
6	13.7858	34.19		27.83	10.12	44.31		37.95	60.00	50.00	-15.69	-12.05	Р	

8. FCC RADIATED EMISSION TEST

8.1. TEST EQUIPMENT OF RADIATED EMISSION

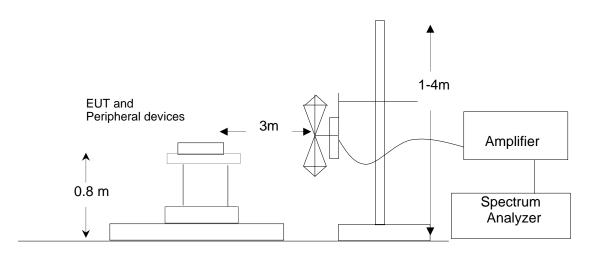
Description	Manufacturer	Model Identifier		Cal. Date	Cal. Due	
PSA SERIES		E 4 4 4 0 A	110 44 40 4000	00/07/0044	00/00/0040	
SPECTRUM ANALYZER	AGILENT	E4440A	US41421290	06/27/2011	06/26/2012	
ANTENNA	A.H.	SAS-521-4	128	06/27/2011	06/26/2012 06/26/2012	
HORN ANTENNA	EM	EM-AH-10180	N/A	06/27/2011		
AMPLIFIER	EM	EM30180	0607030	06/27/2011	06/26/2012	
POSITIONING						
CONTROLLER	MF	MF-7802	MF780208147	06/27/2011	06/26/2012	

8.2. LIMITS OF RADIATED EMISSION TEST

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

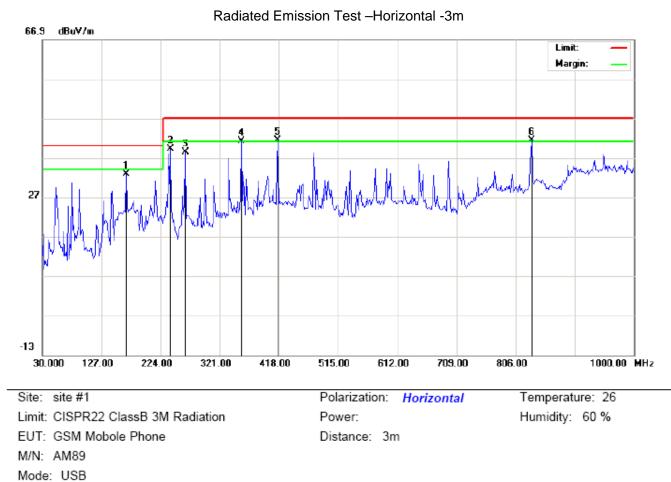
**Note: The lower limit shall apply at the transition frequency.

8.3 BLOCK DIAGRAM OF RADIATED EMISSION TEST



8.4 PROCEDURE OF RADIATED EMISSION TEST

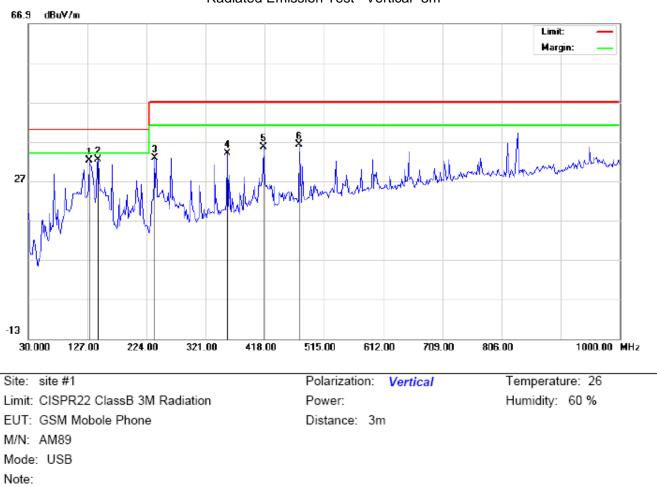
- 1) The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden turntable with a height of 0.8 meters is used which is placed on the ground plane as per ANSI C63.4 (see Test Facility for the dimensions of 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 connect to PC which received 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.



8.5 TEST RESULT OF RADIATED EMISSION TEST

Note:

Antenna Table Reading Factor Measurement Limit Over Freq. Mk Height Degree No. Detector Comment MHz dBuV dBuV/m dBuV/m dB/m dB cm degree 1 167.4166 17.48 15.39 32.87 40.00 -7.13 peak 2 17.13 -7.75 240.1666 22.12 39.25 47.00 peak 3 264.4166 21.51 16.94 38.45 47.00 -8.55 peak 4 356.5667 22.09 19.09 41.18 47.00 -5.82 peak İ 416.3833 5 * 20.03 21.33 41.36 47.00 -5.64 peak 6 831.8667 11.31 30.02 41.33 47.00 İ -5.67 peak



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	•	MHz	dBuV	dB/m	dBu\//m	dBuV/m	dB		cm	degree	
1		130.2332	15.65	16.47	32.12	40.00	-7.88	peak			
2	*	144.7831	16.65	15.77	32.42	40.00	-7.58	peak			
3		236.9333	17.27	15.51	32.78	47.00	-14.22	peak			
4		356.5667	14.83	19.09	33.92	47.00	-13.08	peak			
5		416.3833	14.26	21.33	35.59	47.00	-11.41	peak			
6		474.5833	14.60	21.63	36.23	47.00	-10.77	peak			

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APPENDIX 1 PHOTOGRAPHS OF TEST SETUP

FCC LINE CONDUCTED EMISSION TEST SETUP



FCC RADIATED EMISSION TEST SETUP



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APPENDIX 2 PHOTOGRAPHS OF EUT

TOP VIEW OF SAMPLE



BOTTOM VIEW OF SAMPLE





RIGHT VIEW OF SAMPLE





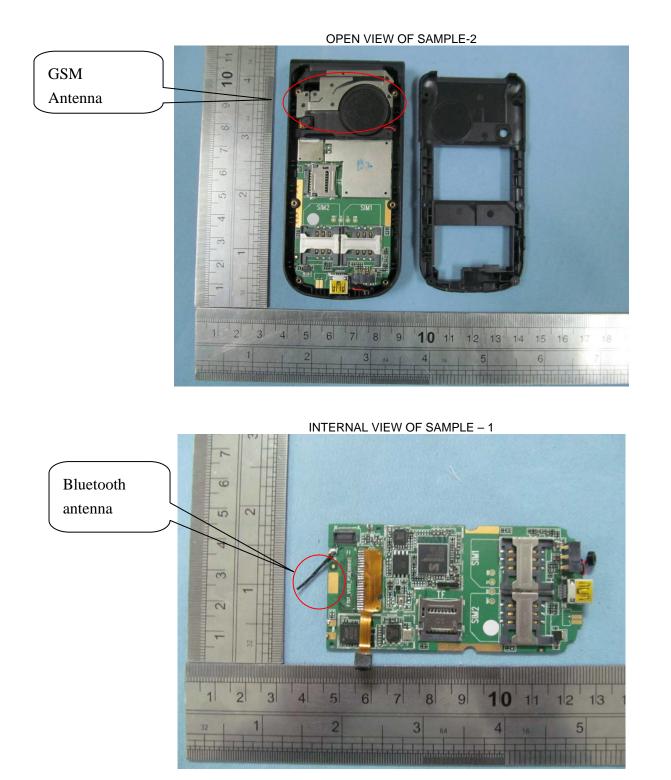
BACK VEIW OF SAMPLE

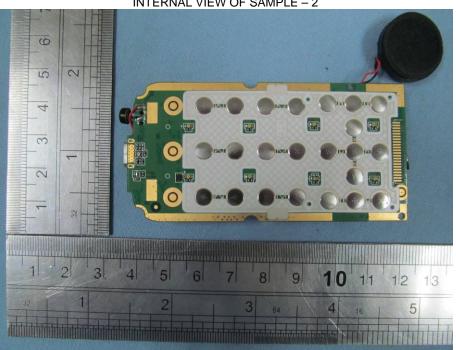




OPEN VIEW OF SAMPLE-1

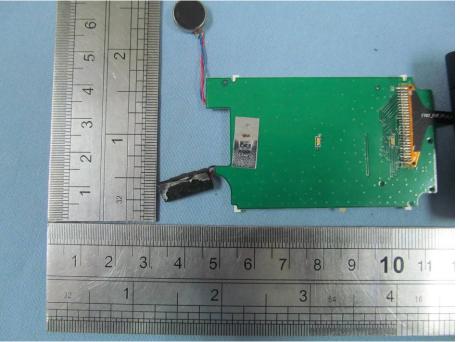


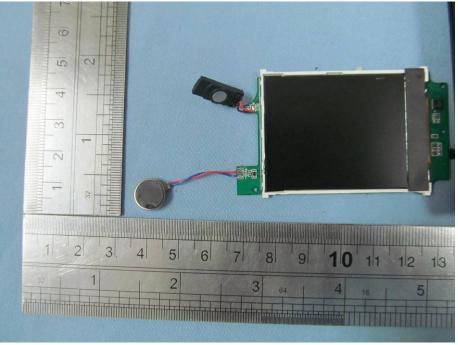




INTERNAL VIEW OF SAMPLE - 2

INTERNAL VIEW OF SAMPLE - 3





INTERNAL VIEW OF SAMPLE - 4

----END OF REPORT----