FCC Test Report

Report No.: AGC031110501F1

FCC ID	:	ZDJDG119
PRODUCT DESIGNATION	:	Mobile Phone
BRAND NAME	:	VIBE MOBILITY
MODEL NAME	:	DG119
CLIENT	:	Cellbet 7 HK limited
DATE OF ISSUE	:	June 8,2011
STANDARD(S)	:	FCC Part 15 Rules

Attestation of ***G***lobal ***C***ompliance Co., Ltd.

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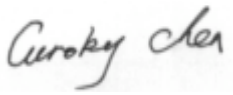
1. VERIFICATION OF COMPLIANCE

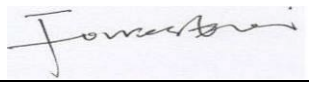
Applicant:	Cellbet 7 HK limited Room 813, 8/F, Hollywood Plaza, 610 Nathan Road, Kowloon, HongKong
Manufacturer:	Shen Zhen Kaliho Technology Development Limited 20F. Golden Tower, Jintian Road, FuTian CBD District, Shenzhen, China
Product Designation:	Mobile Phone
Brand name:	VIBE MOBILITY
Model Name:	DG119, DG109
Difference Description:	All the same except for the appearance, and the main test model is DG119.
FCC ID:	ZDJDG119
Measurement Procedure:	ANSI C63.4: 2003
File Number:	AGC031110501F1
Date of test:	June 4, 2011 to June 7, 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.

Checked By : 

Curoky Chen June 7, 2011

Authorized By : 

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2. PRODUCT INFORMATION

Housing Type: Plastic and metal

EUT Rating Voltage: DC 3.7V by battery(or Charged by adapter)

Adapter Input AC100~240V,50/60Hz

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	1
Earphone port	1	1m unshielded	1
DC input port	1	1.5 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	Lenovo	B450	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 (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

6 SUMMARY OF TEST RESULTS

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

7. FCC LINE CONDUCTED EMISSION TEST

7.1. TEST EQUIPMENT OF LINE CONDUCTED EMISSION TEST

Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Spectrum Analyzer	Agilent	E4440A	N/A	06/29/2010	06/28/2011
EMI Test Receiver	H.P.	8546A	N/A	06/29/2010	06/28/2011
LISN	EMCO	3825/2	N/A	06/29/2010	06/28/2011

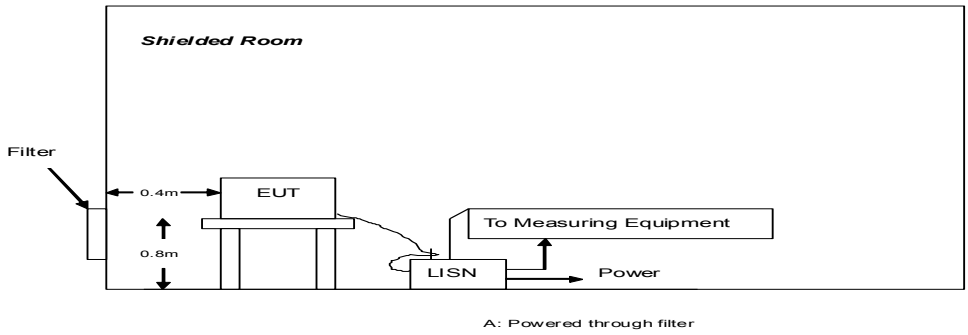
7.2 .LIMITS OF LINE CONDUCTED EMISSION TEST

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



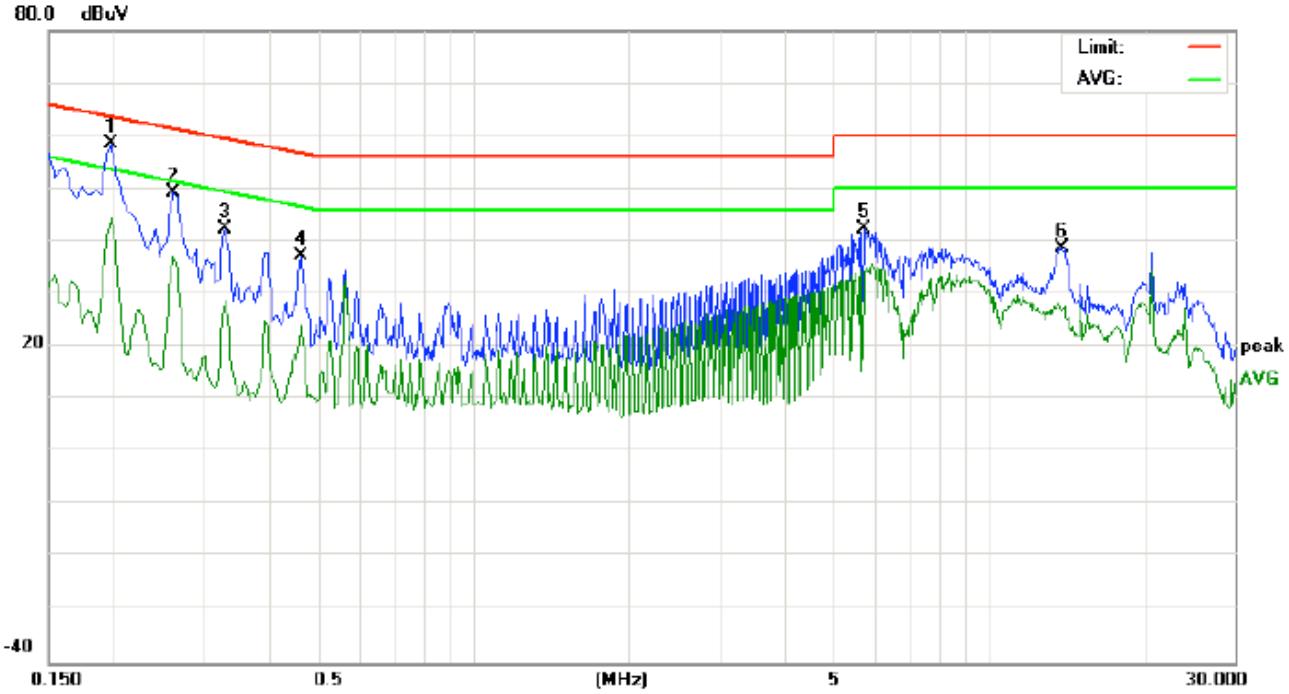
7.4. PROCEDURE OF LINE CONDUCTED EMISSION TEST

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 DC 5V power by PC which received 120V/60Hz power from socket under the turntable through 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

LINE CONDUCTED EMISSION - L



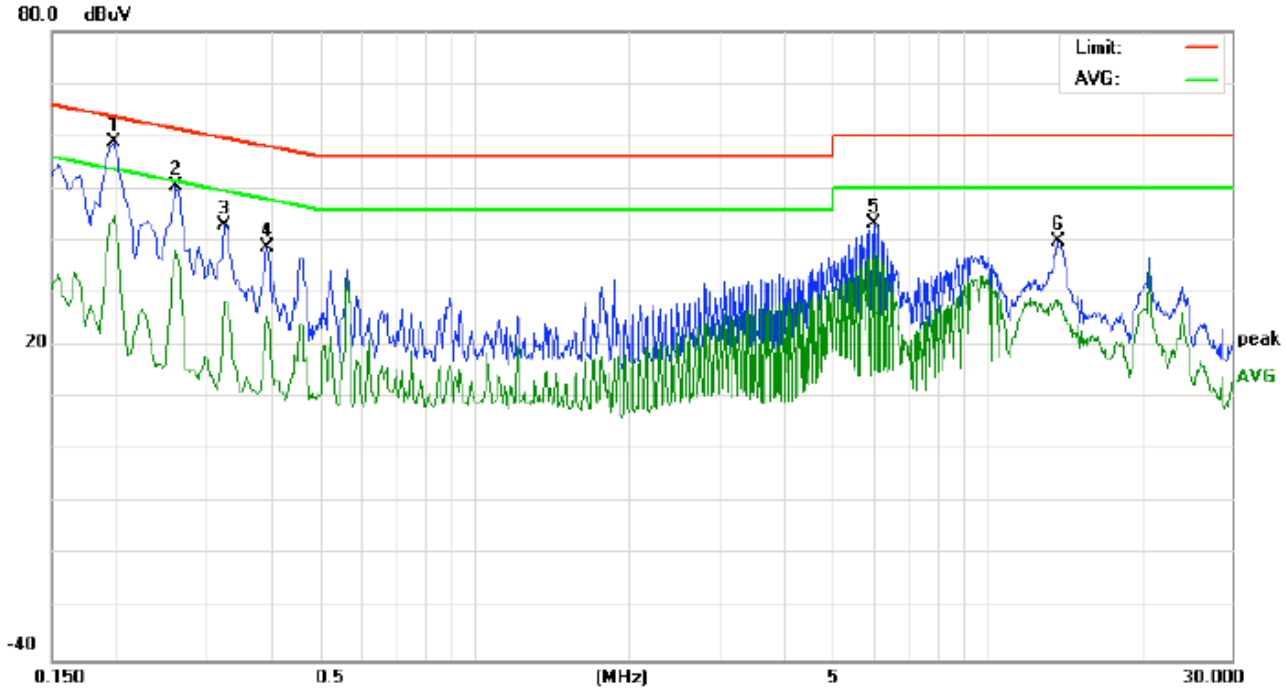
Site: Conduction
Limit: FCC Class B Conduction(QP)
EUT: Mobile Phone
M/N: DG119
Mode: USB
Note:

Phase: L1
Power: AC 120V/60Hz

Temperature: 26
Humidity: 60 %

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	0.1980	48.42		34.26	10.21	58.63		44.47	63.69	53.69	-5.06	-9.22	P	
2	0.2620	38.94		27.03	10.27	49.21		37.30	61.36	51.36	-12.15	-14.06	P	
3	0.3300	32.06		18.54	10.30	42.36		28.84	59.45	49.45	-17.09	-20.61	P	
4	0.4620	26.85		13.56	10.37	37.22		23.93	56.66	46.66	-19.44	-22.73	P	
5	5.7260	31.95		23.92	10.26	42.21		34.18	60.00	50.00	-17.79	-15.82	P	
6	13.8500	28.50		17.07	10.12	38.62		27.19	60.00	50.00	-21.38	-22.81	P	

LINE CONDUCTED EMISSION – N



Site: Conduction
Limit: FCC Class B Conduction(QP)
EUT: Mobile Phone
M/N: DG119
Mode: USB
Note:

Phase: *N*
Power: AC 120V/60Hz

Temperature: 26
Humidity: 60 %

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	0.1980	48.59		34.42	10.21	58.80		44.63	63.69	53.69	-4.89	-9.06	P	
2	0.2620	40.23		27.89	10.27	50.50		38.16	61.36	51.36	-10.86	-13.20	P	
3	0.3260	32.60		18.18	10.30	42.90		28.48	59.55	49.55	-16.65	-21.07	P	
4	0.3940	28.42		15.25	10.33	38.75		25.58	57.98	47.98	-19.23	-22.40	P	
5	6.0380	33.02		27.50	10.28	43.30		37.78	60.00	50.00	-16.70	-12.22	P	
6	13.7220	29.75		17.55	10.13	39.88		27.68	60.00	50.00	-20.12	-22.32	P	

8. FCC RADIATED EMISSION TEST

8.1. TEST EQUIPMENT OF RADIATED EMISSION

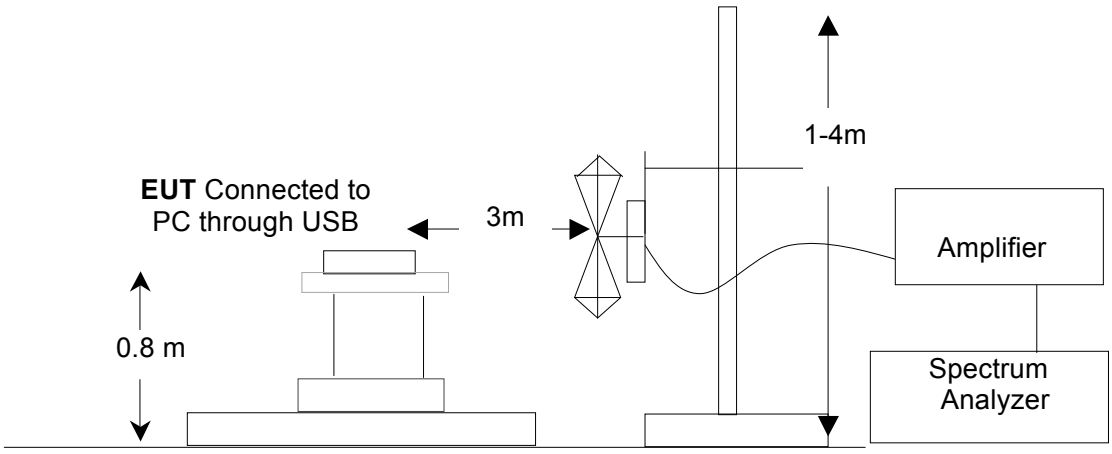
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
PSA SERIES SPECTRUM ANALYZER	AGILENT	E4440A	US41421290	06/29/2010	06/28/2011
ANTENNA	A.H.	SAS-521-4	128	06/29/2010	06/28/2011
HORN ANTENNA	EM	EM-AH-10180	N/A	06/29/2010	06/28/2011
AMPLIFIER	EM	EM30180	0607030	06/29/2010	06/28/2011
POSITIONING CONTROLLER	MF	MF-7802	MF780208147	06/29/2010	06/28/2011

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

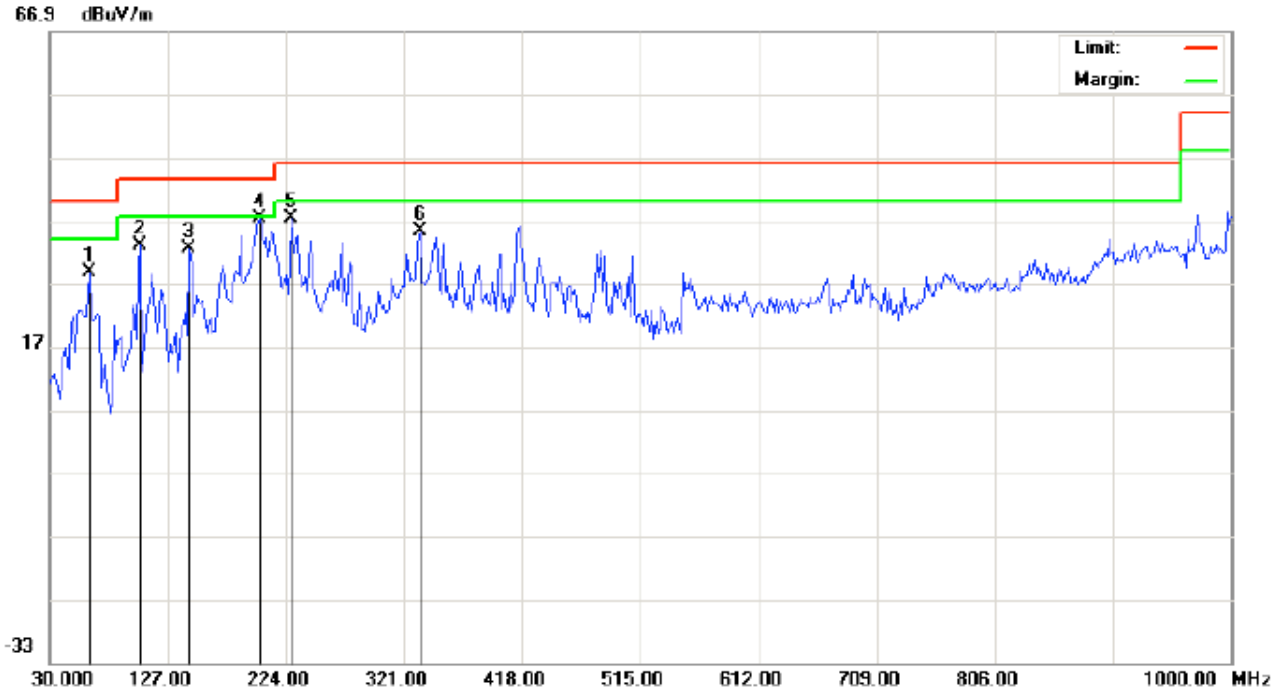


8.4 PROCEDURE OF RADIATED EMISSION TEST

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 by 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

Radiated Emission Test –Horizontal -3m



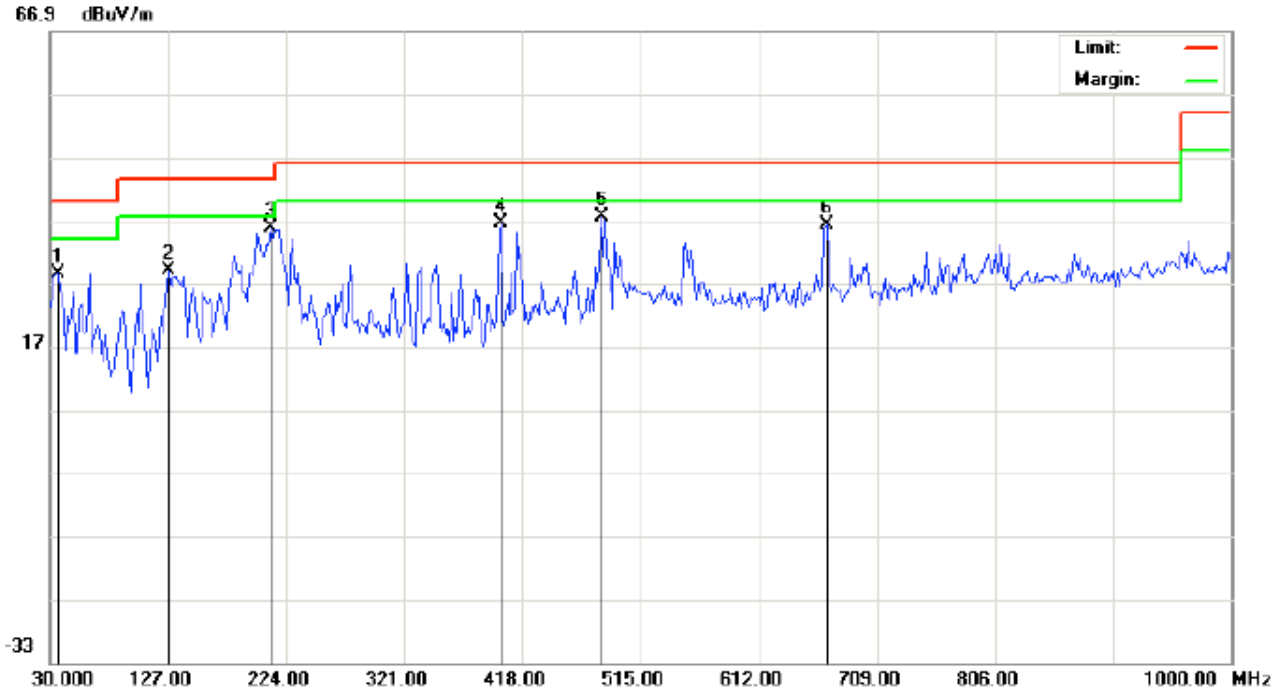
Site: site #1
Limit: FCC Class B 3M Radiation
EUT: Mobile Phone
M/N: DG119
Mode: USB
Note:

Polarization: *Horizontal*
Power:
Distance: 3m

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		62.3333	15.36	13.33	28.69	40.00	-11.31	peak			
2		104.3667	17.11	15.90	33.01	43.50	-10.49	peak			
3		144.7833	19.53	12.90	32.43	43.50	-11.07	peak			
4	*	202.9832	25.50	11.75	37.25	43.50	-6.25	peak			
5		228.8500	21.79	15.38	37.17	46.00	-8.83	peak			
6		333.9333	16.43	18.78	35.21	46.00	-10.79	peak			

Radiated Emission Test –Vertical -3m



Site: site #1
Limit: FCC Class B 3M Radiation
EUT: Mobile Phone
M/N: DG119
Mode: USB
Note:

Polarization: *Vertical*
Power:
Distance: 3m

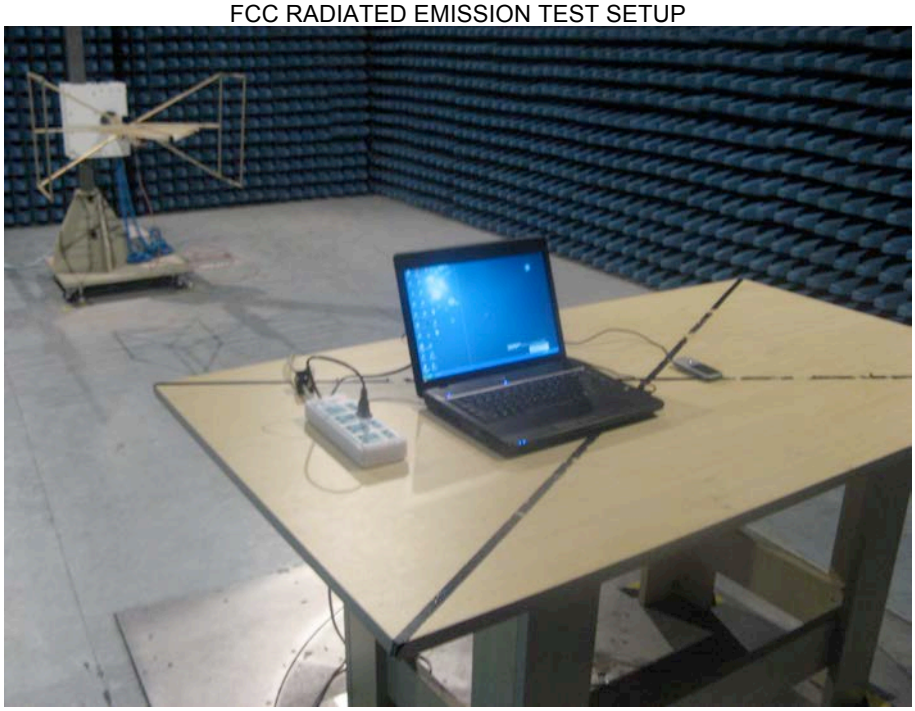
Temperature: 26
Humidity: 60 %

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		36.4667	13.88	14.74	28.62	40.00	-11.38	peak			
2		127.0000	15.44	13.63	29.07	43.50	-14.43	peak			
3	*	211.0667	21.16	14.68	35.84	43.50	-7.66	peak			
4		400.2167	15.76	20.84	36.60	46.00	-9.40	peak			
5		482.6667	15.57	21.84	37.41	46.00	-8.59	peak			
6		668.5833	10.46	25.82	36.28	46.00	-9.72	peak			

APPENDIX 1
PHOTOGRAPHS OF TEST SETUP

FCC LINE CONDUCTED EMISSION TEST SETUP

FCC RADIATED EMISSION TEST SETUP

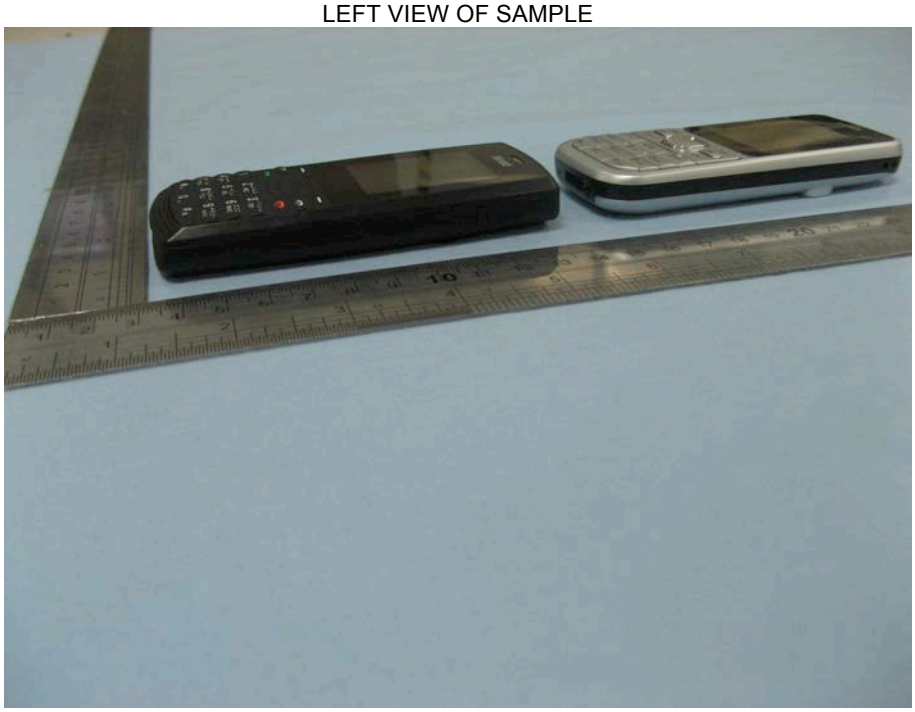


APPENDIX 2
PHOTOGRAPHS OF EUT

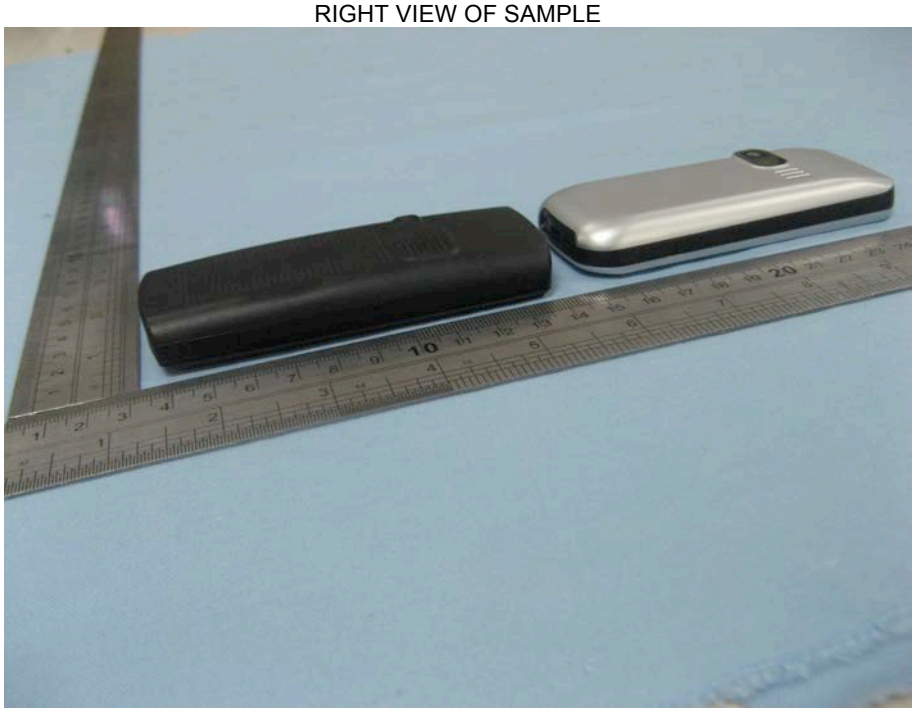
TOP VIEW OF SAMPLE

BOTTOM VIEW OF SAMPLE

LEFT VIEW OF SAMPLE



RIGHT VIEW OF SAMPLE



FRONT VIEW OF SAMPLE

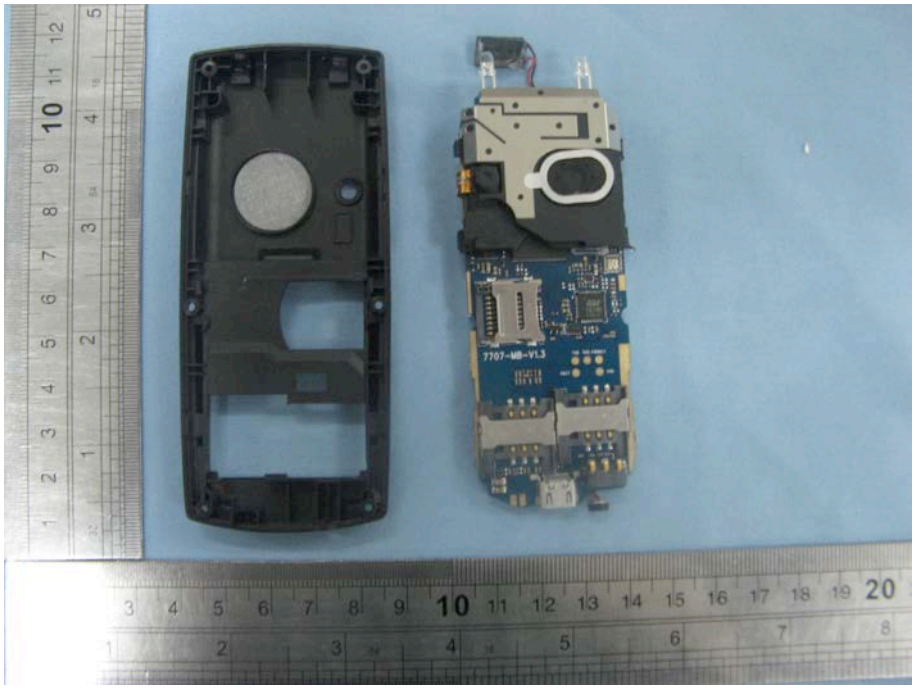
BACK VEIW OF SAMPLE

ALL VIEW OF SAMPLE

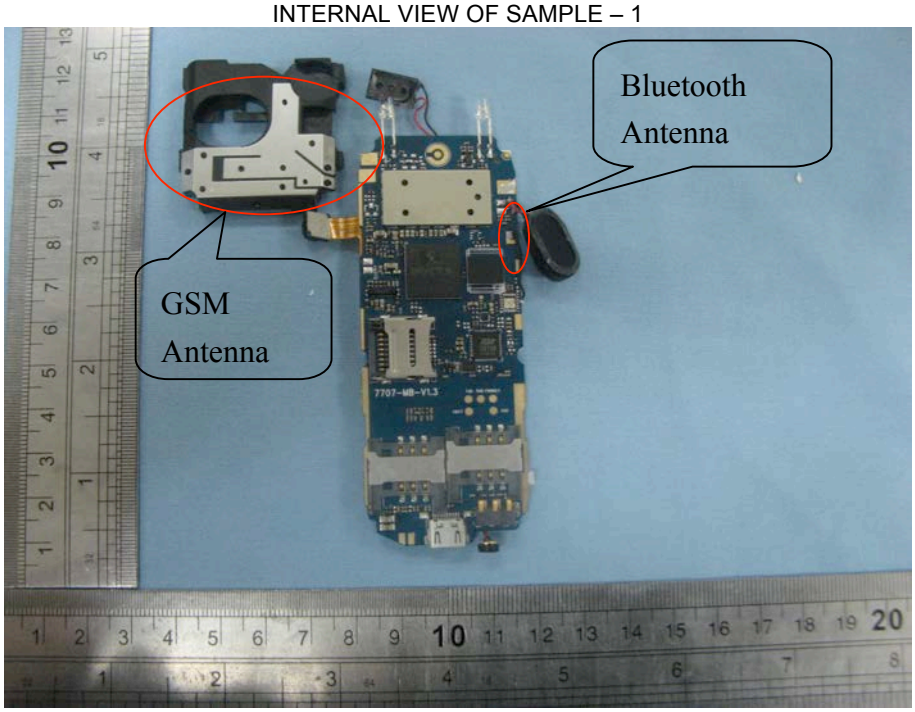
OPEN VIEW OF SAMPLE-1

OPEN VIEW OF SAMPLE-2

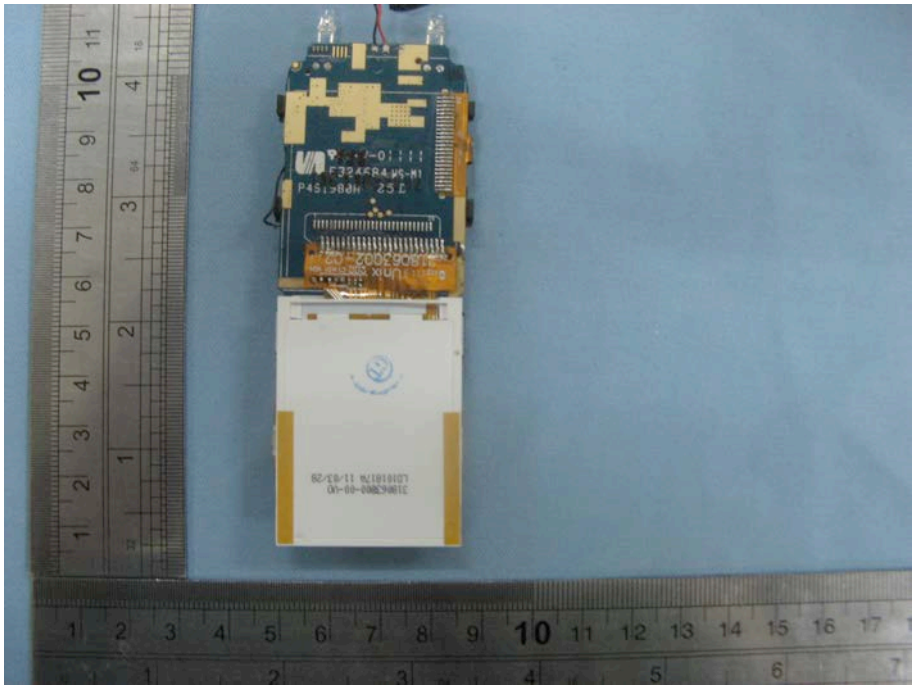
OPEN VIEW OF SAMPLE-3



INTERNAL VIEW OF SAMPLE – 1



INTERNAL VIEW OF SAMPLE – 2



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