	FCC TEST REPORT
	For
	FUI
	GSM/WCDMA MOBILE PHONE
	Medel Number M4 CC40C0
	Model Number: M4 SS1060
	FCC ID: CLNSS1060
	Report Number : WT138002574
Test Laboratory	
Test Laboratory	Inspection
Test Laboratory Site Location	Inspection National Digital Electronic Product Testing Center : No.4 Tongfa Road, Xili Town, Nanshan District,
	Inspection National Digital Electronic Product Testing Center
Site Location	 Inspection National Digital Electronic Product Testing Center No.4 Tongfa Road, Xili Town, Nanshan District, Shenzhen, Guangdong, China

TEST REPORT DECLARATION				
Applicant	HFOURTEL MEXICO S.A. DE C.V.			
Address	Montecito 38, Piso 23, Oficina 15. Colonia Nápoles. C.P. : 03810 Mexico 3/F, Skyworth Building C Gaoxin S. Ave. 1st, High-Tech industrial Park NanShan, ShenZhen			
Manufacturer	: CK Telecom Limited			
Address	. Technology Road.High-Tech Development Zone. Heyuan, Guangdong,P.R.China.			
EUT Description	GSM/WCDMA MOBILE PHONE			
Model No	M4 SS1060			
Trade mark	. M4			
Serial Number	. 357428021365392 . 357428021365418			
FCC ID	- CLNSS1060			

Test Standards:

FCC Part 15 Subpart B 15.107, 15.109 (2012)

The EUT described above is tested by Shenzhen Academy of Metrology and Quality Inspection EMC Laboratory to determine the maximum emissions from the EUT. Shenzhen Academy of Metrology and Quality Inspection EMC Laboratory is assumed full responsibility for the accuracy of the test results.

The test report is valid for above tested sample only and shall not be reproduced in part without written approval of the laboratory.

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1. TEST RESULTS SUMMARY

Table 1	Test Results Summary

Test Items	FCC Rules	Test Results
Conducted Disturbance	15.107	Pass
Radiation Emission	15.109	Pass

Remark: "N/A" means "Not applicable."

2. GENERAL INFORMATION

2.1. Report information

- 2.1.1.This report is not a certificate of quality; it only applies to the sample of the specific product/equipment given at the time of its testing. The results are not used to indicate or imply that they are application to the similar items. In addition, such results must not be used to indicate or imply that SMQ approves recommends or endorses the manufacture, supplier or use of such product/equipment, or that SMQ in any way guarantees the later performance of the product/equipment.
- 2.1.2. The sample/s mentioned in this report is/are supplied by Applicant, SMQ therefore assumes no responsibility for the accuracy of information on the brand name, model number, origin of manufacture or any information supplied.
- 2.1.3.Additional copies of the report are available to the Applicant at an additional fee. No third part can obtain a copy of this report through SMQ, unless the applicant has authorized SMQ in writing to do so.

2.2. Laboratory Accreditation and Relationship to Customer

The testing report were performed by the Shenzhen Academy of Metrology and quality Inspection EMC Laboratory (Guangdong EMC compliance testing center), in their facilities located at Bldg. of Metrology & Quality Inspection, Longzhu Road, Nanshan District, Shenzhen, Guangdong, China. At the time of testing, Laboratory is accredited by the following organizations:

China National Accreditation Committee for Laboratories (CNAS) accredits the Laboratory for conformance to FCC standards, EMC international standards and EN standards. The Registration Number is L0579.

The Laboratory is listed in the United States of American Federal Communications Commission (FCC), and the registration number are 446246 806614 994606(semi anechoic chamber).

The Laboratory is registered to perform emission tests with Industry Canada (IC), and the registration number is IC4174.

TUV Rhineland accredits the Laboratory for conformance to IEC and EN standards, the registration number is E2024086Z02. Measurement Uncertainty

2.3. Measurement Uncertainty

Conducted Emission

9kHz~30MHz 3.5dB

Radiated Emission 30MHz~1000MHz 4.5dB 1GHz~18GHz 4.6dB

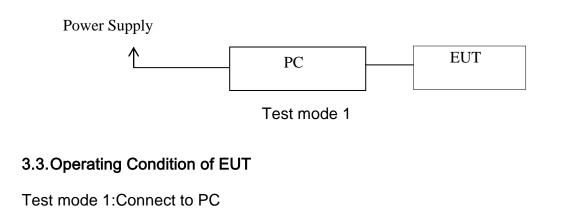
3. PRODUCT DESCRIPTION

3.1.EUT Description

Table 2 Specification of the Equipment under Test

Product Type:	GSM/WCDMA MOBILE PHONE		
Hardware Revision :			
Software Revision :	M4_SS1060_S01_Ver200		
FCC-ID:	CLNSS1060		
Frequency:	GSM 850: 824.2-848.8MHz;		
	PCS 1900: 1850.2-1909.8MHz		
	FDD V: 826.4-846.6MHz;		
	FDD II: 1852.4-1907.6MHz		
	Bluetooth: 2402-2480MHz		
	WIFI: 2412-2462MHz		
Type(s) of	GMSK; QPSK		
Modulation:	GFSK, π/4-DQPSK, 8-DPSK		
	CCK OFDM		
Antenna Type:	Internal		
Operating voltage:	Internal battery, 110V AC Adapter;		
	3.4V (Low)/ 4.2V (Nominal)/ 4.2V (Max)		

3.2. Block Diagram of EUT Configuration



3.4. Support Equipment List

Name	Model No	S/N	Manufacturer
Notebook	R51		IBM
Adaptor for Notebook	02K6654		IBM
Computer	9439	L3BDF2K	Lenovo
Keyboard (USB)	SK-8825 (L)	02553778	Lenovo
Mouse (USB)	MO28UOL	4418011108	Lenovo
Monitor	9227-AE1	V1TDB38	Lenovo
Printer	BJC-265SP	EVX81604	CANON
Adaptor for Printer	AD-300		CANON
MODEM TM-EC5656V		03402406009	TP-Link
Adaptor for modem EI-41-AD9010			

3.5. Test Conditions

Date of test : Aug 29-Sept 6, 2013 Date of EUT Receive : Aug 28, 2013 Temperature: 23-24 °C Relative Humidity: 53-56%

3.6. Modifications

No modification was made.

4. TEST EQUIPMENT USED

4.1. Test Equipment Used to Measure Conducted Disturbance

No.	Equipment	Manufacturer	Model No.	LAST CALIB	Period
SB3319	EMI Test Receiver	R&S	ESCS30	Jan.21,2013	1 Year
SB4357	AMN	R&S	ENV216	Jan.21,2013	1 Year

4.2. Test Equipment Used to Measure Radiated Disturbance

Table 3 Radiated Disturbance Test Equipment

No.	Equipment	Manufacturer	Model No.	LAST CALIB	Period
SB3436	EMI Test Receiver	Rohde & Schwarz	ESI26	Jan.21,2013	1 Year
SB5472/02	Bilog Antenna	SCHWARZBECK	VULB9163	Jan.21,2013	1 Year

5. CONDUCTED DISTURBANCE TEST

5.1.Test Standard and Limit

5.1.1.Test Standard

FCC Part 15: Section 15.107

5.1.2.Test Limit

Table 4 Conducted Disturbance Test Limit (Class B)

Frequency		N/	Power Port limits (dBµV)	
Trequency		,y	Quasi-peak	Average
0.15MHz	~	0.5MHz	66~56*	56~46*
0.5MHz	~	5 MHz	56	46
5 MHz	~	30MHz	60	50

* Decreasing linearly with logarithm of the frequency

5.2. Test Procedure

The EUT is put on a table of non-conducting material that is 80cm high. The vertical conducting wall of shielding is located 40cm to the rear of the EUT. The power line of the EUT is connected to the AC mains through a Artificial Mains Network (A.M.N.). A EMI test receiver (R&S Test Receiver ESCS30) is used to test the emissions form both sides of AC line. The bandwidth of EMI test receiver is set at 9kHz.

5.3. Test Arrangement

The arrangement of the equipment is installed to meet the standards and operating in a manner, which tends to maximize its emission characteristics in a normal application. The detailed information refers to test picture.

5.4. Test Data

The emissions don't show in below are too low against the limits, the test curves are shown in the next page.

Table 5 Conducted Disturbance Test Data at mains Port

Model No.: M4 SS1060

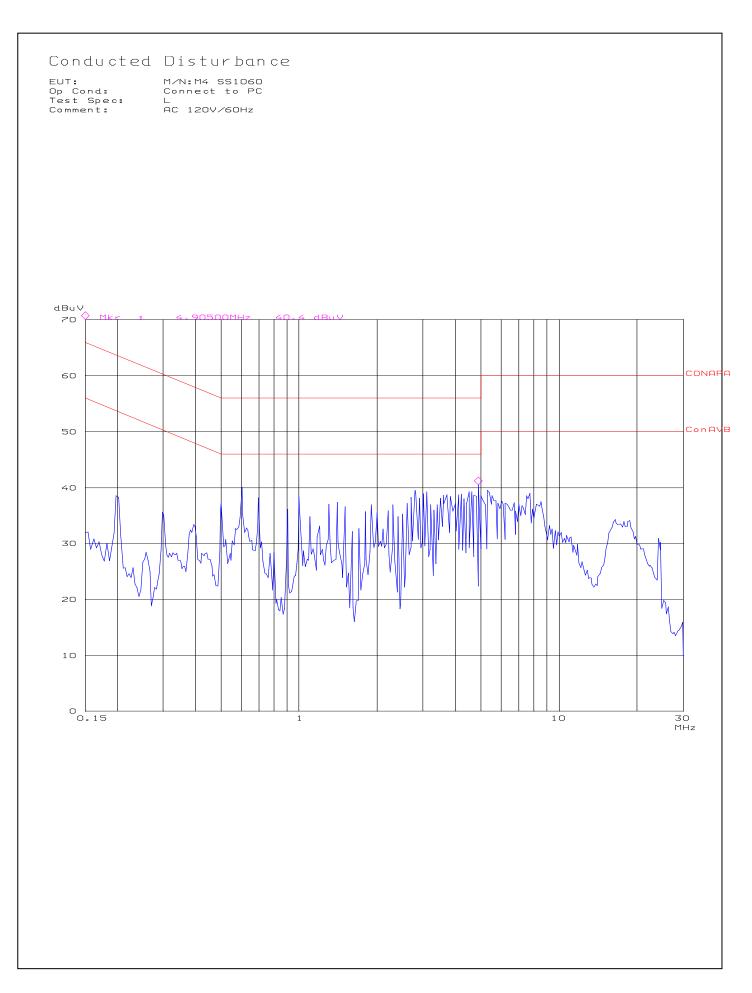
Test mode: Connect to PC

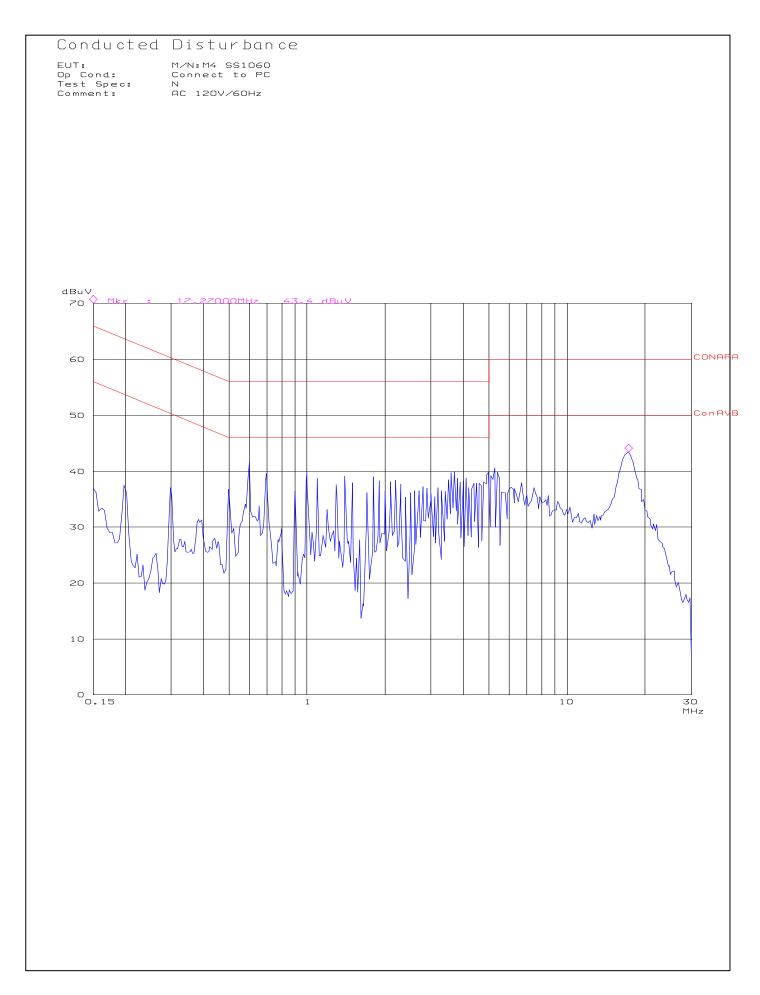
	Frequency	Correction		Quasi-Peak		Average			
	(MHz)	Factor (dB)	Reading (dBµV)	Emission Level (dBµV)	Limits (dBµV)	Reading (dBµV)	Emission Level (dBµV)	Limits (dBµV)	
Line	4.905	9.9	27.9	37.8	56	25.4	35.3	46	
	0.602	9.8	29.0	38.8	56	26.9	36.7	46	
	0.698	9.8	24.0	33.8	56	20.8	30.6	46	
	1.000	9.8	27.1	36.9	56	26.0	35.8	46	
	2.800	9.9	21.3	31.2	56	15.8	25.7	46	
	3.105	9.9	27.9	37.8	56	24.9	34.8	46	
Neutral	17.270	9.9	24.2	34.1	60	16.3	26.2	50	
	0.598	9.8	30.6	40.4	56	29.0	38.8	46	
	0.698	9.8	28.7	38.5	56	27.1	36.9	46	
	0.998	9.8	28.8	38.6	56	27.9	37.7	46	
	1.095	9.8	21.8	31.6	56	18.8	28.6	46	
	3.690	9.9	18.7	28.6	56	12.6	22.5	46	

REMARKS: 1. Emission level(dBuV)=Read Value(dBuV) + Correction Factor(dB)

2. Correction Factor(dB) =LISN Factor (dB) + Cable Factor (dB)+Limiter Factor(dB)

3. The other emission levels were very low against the limit.





6. RADIATION DISTURBANCE TEST

6.1.Test Standard and Limit

6.1.1.Test Standard

FCC Part 15: Section 15.109

6.1.2.Test Limit

Table 6 Radiation Disturbance Test Limit for FCC	(Class B)

Frequency	Limit (dBµV/m)				
	Quasi-peak Level				
30MHz~88MHz	40.0				
88MHz~216MHz	43.5				
216MHz~960MHz	46.0				
>960MHz	54.0				
· · · · · · · · · · · · ·					

* The lower limit shall apply at the transition frequency.

* The test distance is 3m.

6.2. Test Procedure

The EUT is placed on a turntable, which is 0.8 meter above ground. The turntable can rotate 360 degrees to determine the position of the maximum emission level. EUT is set **3 meters** away from the receiving antenna, which is mounted on an antenna tower. The antenna can move up and down between 1 to 4 meters to find out the maximum emission level. Broadband antenna is used as a receiving antenna. Both horizontal and vertical polarization of the antenna is set on test.

6.3. Test Arrangement

The arrangement of the equipment is installed to meet the standards and operating in a manner, which tends to maximize its emission characteristics in a normal application. The detailed information refers to test picture.

6.4. Test Data

The emissions don't show in below are too low against the limits, the test curves are shown in the next page.

			Table 7 Ra	diated Dis	turbance Te	est Data			
Frequency MHz	Cable Loss(dB)	Antenna Factor(d B)	Readings(d BµV/m)	Level(dBµ V/m)		Turntable Angle(de g)	l laight/m	Limits(dBµV/m)	Margin(d B)
72.611	1.0	8.7	15.6	25.3	Н	30.0	1.2	40.0	14.7
85.445	1.0	10.3	12.4	23.7	Н	65.9	1.2	40.0	16.3
126.352	1.2	10.5	16.6	28.3	Н	97.5	1.1	43.5	15.2
150.6	1.4	8.3	11.5	21.2	Н	281.1	1.1	43.5	22.3
180.968	1.6	9.7	11.5	22.8	Н	229.2	1.2	43.5	20.7
366.992	2.2	14.3	15.0	31.5	Н	251.1	1.2	46.0	14.5
45.851	0.8	13.6	17.7	32.1	V	170.9	1.2	40	7.9
50.4	0.8	13.3	17.8	31.9	V	358.0	1.0	40	8.1
75.852	1.0	8.7	21.1	30.8	V	263.1	1.1	40	9.2
85.011	1.0	10.3	15.9	27.2	V	94.3	1.1	40	12.8
126.312	1.2	10.5	16.9	28.6	V	352.7	1.0	43.5	14.9
150.6	1.4	8.3	21.8	31.5	V	66.5	1.1	43.5	12.0

Remark: No significant emission found for above 1GHz

Radiated Disturbance

EUT: M/N:M4 SS1060 Manufacturer: Operating Condition: Connect to PC Test Site: SMQ EMC Lab. SAC Operator: Test Specification: Horizontal & Vertical Comment: AC 120V/60Hz

