

FCC REPORT

Applicant:	MOVILTELCO TRADE, S.L		
Address of Applicant:	Street: ABTAO, 25-1 Floor A-office MADRID -SPAIN		
Equipment Under Test (E	UT)		
Product Name:	GSM mobile phone		
Model No.:	M03		
Trade mark:	mtt		
FCC ID:	2ACQKTELCO002		
Applicable standards:	FCC CFR Title 47 Part 15 Subpart B		
Date of sample receipt:	03 Jul., 2014		
Date of Test:	04 Jul., to 21 Jul., 2014		
Date of report issued:	21 Jul., 2014		
Test Result:	Pass *		

* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:



Bruce Zhang Laboratory Manager

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the CCIS product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

This report may only be reproduced and distributed in full. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards.

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2 Version

Version No.	Date	Description
00	21 Jul., 2014	Original

Prepared by:

Sera Ximy Report Clerk

Date:

21 Jul., 2014

Reviewed by:

Abomb Yang

Date:

21 Jul., 2014

Project Engineer

Project No.: CCIS140700527RF



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4 Test Summary

Test Item Section in CFR 47		Result
Conducted Emission	Part15.107	Pass
Radiated Emission	Part15.109	Pass

Pass: The EUT complies with the essential requirements in the standard.



5 General Information

5.1 Client Information

Applicant:	MOVILTELCO TRADE, S.L
Address of Applicant: Street: ABTAO, 25-1 Floor A-office MADRID - SPAIN	
Manufacturer : REACH CHANCE INTERNATIONAL LIMITED	
Address of Manufacturer:	7/F KIN ON COMMERCIAL BUILDING 49-51 JERVOIS STREET SHEUNG WAN, HK

5.2 General Description of E.U.T.

Product Name:	GSM mobile phone		
Model No.:	M03		
Power supply:	Rechargeable Li-ion Battery DC3.7V-1000mAh		
AC adapter :	MODEL:M03 Input: AC 100-240V 50/60Hz 0.20A Output: DC 5V, 500mA		

5.3 Test Mode

Operating mode Detail description				
PC mode Keep the EUT in Downloading mode(Worst case)				
Charing & recording mode Keep the EUT in Charing & recording mode				
FM mode Keep the EUT in FM receiver mode				
The sample was placed 0.8m above the ground plane of 3m chamber. Measurements in both horizontal and vertical				

polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.



Manufacturer	Description	Model	Serial Number	FCC ID/DoC
DELL	PC	OPTIPLEX745	N/A	DoC
DELL	MONITOR	E178FPC	N/A	DoC
DELL	KEYBOARD	SK-8115	N/A	DoC
DELL	MOUSE	MOC5UO	N/A	DoC
HP	Printer	CB495A	05257893	DoC

5.4 Description of Support Units

5.5 Laboratory Facility

The test facility is recognized, certified, or accredited by the following organizations:

• FCC - Registration No.: 817957

Shenzhen Zhongjian Nanfang Testing Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in out files. Registration 817957, February 27, 2012.

IC - Registration No.: 10106A-1

The 3m Semi-anechoic chamber of Shenzhen Zhongjian Nanfang Testing Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.

• CNAS - Registration No.: CNAS L6048

Shenzhen Zhongjian Nanfang Testing Co., Ltd. is accredited to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L6048.

5.6 Laboratory Location

Shenzhen Zhongjian Nanfang Testing Co., Ltd. Address: No.B-C, 1/F., Building 2, Laodong No.2 Industrial Park, Xixiang Road, Bao'an District,Shenzhen, Guangdong,China Tel: 0755-23118282 Fax: 0755-23116366



5.7 Test Instruments list

Radiated	Emission:
naulatea	LIIII331011.

Radia	Radiated Emission:						
ltem	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)	
1	3m Semi- Anechoic Chamber	SAEMC	9(L)*6(W)* 6(H)	CCIS0001	July 09 2014	Jul 08 2015	
2	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	CCIS0005	June 25 2014	June 24 2015	
3	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	BBHA9120D	CCIS0006	June 25 2014	June 24 2015	
4	EMI Test Software	AUDIX	E3	N/A	N/A	N/A	
5	Coaxial Cable	CCIS	N/A	CCIS0016	Apr. 01 2014	Mar. 31 2015	
6	Coaxial Cable	CCIS	N/A	CCIS0017	Apr. 01 2014	Mar. 31 2015	
7	Coaxial cable	CCIS	N/A	CCIS0018	Apr. 01 2014	Mar. 31 2015	
8	Coaxial Cable	CCIS	N/A	CCIS0019	Apr. 01 2014	Mar. 31 2015	
9	Coaxial Cable	CCIS	N/A	CCIS0087	Apr. 01 2014	Mar. 31 2015	
10	Amplifier(10kHz- 1.3GHz)	HP	8447D	CCIS0003	Apr. 01 2014	Mar. 31 2015	
11	Amplifier(1GHz- 18GHz)	Compliance Direction Systems Inc.	PAP-1G18	CCIS0011	July 09 2014	July 08 2015	
12	Pre-amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	Apr. 01 2014	Mar. 31 2015	
13	Horn Antenna	ETS-LINDGREN	3160	GTS217	Mar. 30 2014	Mar. 29 2015	
14	Printer	HP	HP LaserJet P1007	N/A	N/A	N/A	
15	Positioning Controller	UC	UC3000	CCIS0015	N/A	N/A	
16	Spectrum analyzer 9k-30GHz	Rohde & Schwarz	FSP	CCIS0023	June. 25 2014	June. 24 2015	
17	EMI Test Receiver	Rohde & Schwarz	ESPI	CCIS0022	Apr 01 2014	Mar. 31 2015	
18	Loop antenna	Laplace instrument	RF300	EMC0701	Aug. 12 2013	Aug. 11 2014	
19	Universal radio communication tester	Rhode & Schwarz	CMU200	CCIS0069	June. 25 2014	June. 24 2015	
20	Signal Analyzer	Rohde & Schwarz	FSIQ3	CCIS0088	June. 25 2014	June. 24 2015	

Cond	Conducted Emission:						
ltem	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)	
1	Shielding Room	ZhongShuo Electron	11.0(L)x4.0(W)x3.0(H)	CCIS0061	July 09 2014	July 08 2015	
2	EMI Test Receiver	Rohde & Schwarz	ESCI	CCIS0002	June 25 2014	June. 24 2015	
3	LISN	CHASE	MN2050D	CCIS0074	Apr. 01 2014	Mar. 31 2015	
4	Coaxial Cable	CCIS	N/A	CCIS0086	Apr. 01 2014	Mar. 31 2015	



6 Test results and Measurement Data

6.1 Conducted Emission

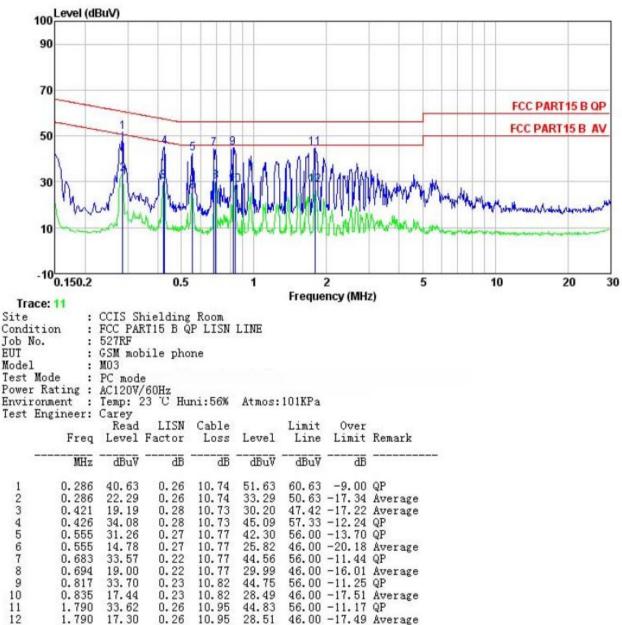
FCC Part15 B Section 15.107	FCC Part15 B Section 15.107				
ANSI C63.4:2003					
e: 150kHz to 30MHz	150kHz to 30MHz				
Class B	Class B				
RBW=9kHz, VBW=30kHz	RBW=9kHz, VBW=30kHz				
	Limit (dBµV)				
Frequency range (MHz)					
0.15-0.5	66 to 56*	56 to 46*			
0.5-5	56	46			
0.5-30	60	50			
Reference Plan	Reference Plane				
AUX E.U.T Equipment E.U.T Test table/Insulation plane Remarkc E.U.T. Equipment Under Test LISN Line Impedence Stabilization Network Test table height=0.8m	AUX Filter AC power Equipment E.U.T EMI Test table/Insulation plane Receiver				
 impedance stabilization network coupling impedance for the metal 2. The peripheral devices are also that provides a 500hm/50uH of (Please refers to the block diation) 3. Both sides of A.C. line are chorder to find the maximum emotal 	 impedance stabilization network(L.I.S.N.). The provide a 50ohm/50uH coupling impedance for the measuring equipment. 2. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refers to the block diagram of the test setup and photographs). 3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4: 2003 on 				
Temp.: 23 °C Hum	d.: 56% Pr	ess.: 1 01kPa			
	Uncertainty: 3.28dB				
Refer to section 5.7 for details					
Refer to section 5.3 for details	Refer to section 5.3 for details				
	ANSI C63.4:2003 e: 150kHz to 30MHz Class B RBW=9kHz, VBW=30kHz Frequency range (MHz) 0.15-0.5 0.5-5 0.5-30 Reference Plan 40cm 80cm Equipment E.U.T Test table/Insulation plane Remark E.U.T Equipment Under Test LISN time Impedence Stabilization Network Test table height=0.8m 1. The E.U.T and simulators are impedance stabilization network coupling impedance for the m 2. The peripheral devices are also that provides a 500hm/50uH do (Please refers to the block dia 3. Both sides of A.C. line are chorder to find the maximum err of the interface cables must b conducted measurement. Temp.: 23 °C Humi	ANSI C63.4:2003 a: 150kHz to 30MHz Class B RBW=9kHz, VBW=30kHz Image: Class B Reference Plane Image: Class B Refer to section 5.7 for details			



Measurement data:

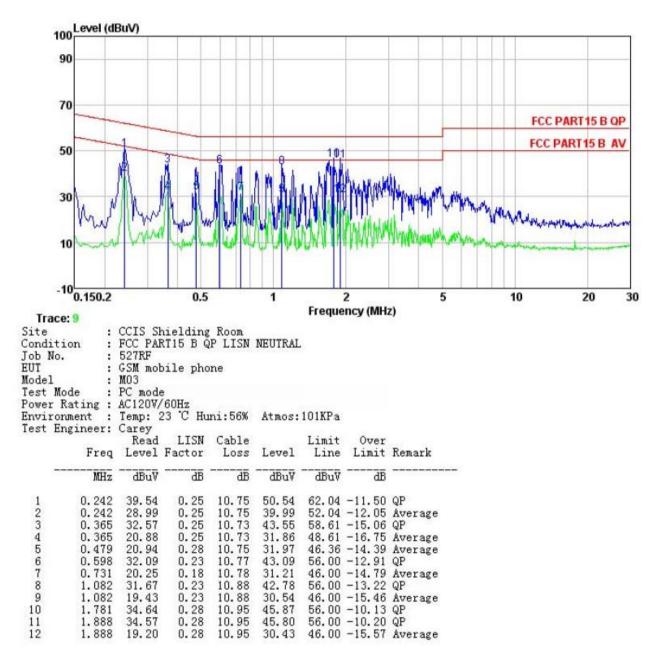
PC mode :

Line:





Neutral:



Notes:

1. The following Quasi-Peak and Average measurements were performed on the EUT

2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.



6.2 Radiated Emission

Test Requirement:	FCC Part15 B Section 15.109				
Test Method:	ANSI C63.4:2003	3			
Test Frequency Range:	30MHz to 6000M	Hz			
Test site:	Measurement Distance: 3m (Semi-Anechoic Chamber)				
Receiver setup:	Frequency Detector RBW VBW Remark				
	30MHz-1GHz Quasi-peak Above 1GHz Peak		120 kHz	300KHz	Quasi-peak Value
			1MHz	3MHz	Peak Value
	Above TGHZ	Peak	1MHz	10Hz	Average Value
Limit:	Freque	ency	Limit (dBuV/m @3m)		Remark
	30MHz-8	8MHz	40.0		Quasi-peak Value
	88MHz-2	16MHz	43.5		Quasi-peak Value
	216MHz-9	60MHz	46.0		Quasi-peak Value
	960MHz-	·1GHz	54.0)	Quasi-peak Value
	Above 1	GH7	54.0		Average Value
	///////)	Peak Value
Test setup:	Below 1GHz				

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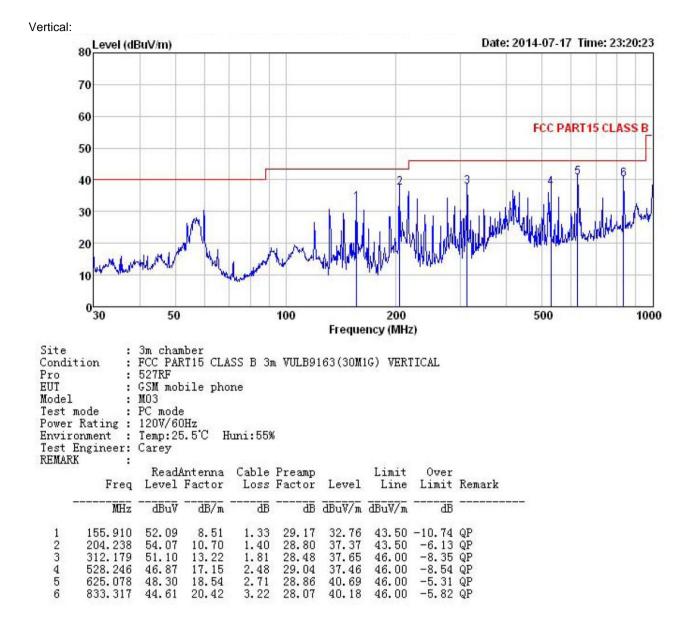
Test Procedure:	1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.			
	2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.			
	3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.			
	 For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet. 			
Test environment:	Temp.: 25 °C Humid.: 55% Press.: 1 01kPa			
Measurement Record:	Uncertainty: 4.88dB			
Test Instruments:	Refer to section 5.7 for details			
Test mode:	Refer to section 5.3 for details			
Test results:	Passed			



Measurement Data

Below 1GHz Horizontal: 80 Level (dBuV/m) Date: 2014-07-17 Time: 23:20:42 70 60 FCC PART15 CLASS B 50 40 30 20 10 0 30 50 100 200 500 1000 Frequency (MHz) : 3m chamber : FCC PART15 CLASS B 3m VULB9163(30M1G) HORIZONTAL Site Condition : 527RF Pro EUT : GSM mobile phone Model : MO3 Test mode : PC mode Power Rating : 120V/60Hz Environment : Temp: 25.5°C Huni: 55% Test Engineer: Carey REMARK : Over ReadAntenna Cable Preamp Limit Freq Level Factor Loss Factor Level Line Limit Remark MHz dB/m dB dBuV/m dBuV/m dBuV dB dB 48.54 47.91 131.758 8.82 1.21 29.32 29.25 43.50 -14.25 QP 1234 1.46 215.268 11.03 28.73 31.67 43.50 -11.83 QP 13.22 37.36 312.179 50.81 28.48 -8.64 QP 1.81 46.00 2.21 2.71 432.546 52.76 15.53 28.84 41.66 46.00 -4.34 QP 5 625.078 50.37 18.54 28.86 42.76 46.00 -3.24 QP 6 3.23 28.06 -2.33 QP 836.244 48.04 20.46 43.67 46.00

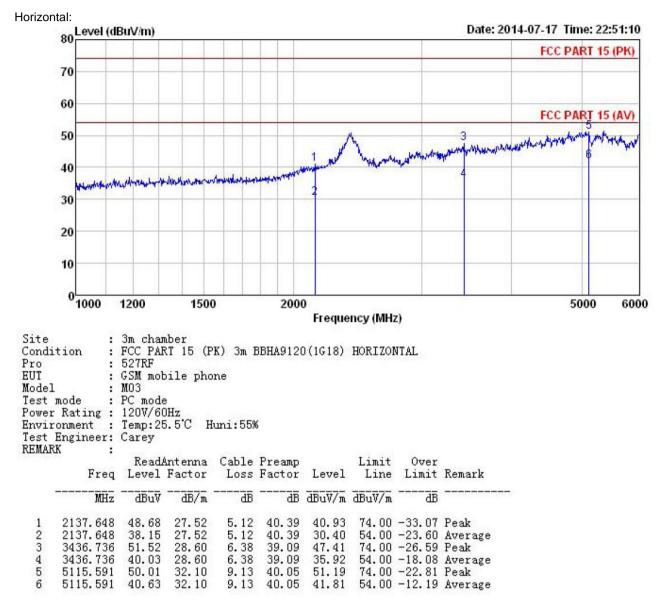






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Above 1GHz





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