

FCC TEST REPORT

Reference No. : G-45-2010-00657

Applicant : ModeLabs Manufacture SAS

Equipment Under Test (EUT) :

Product Name : Cellular/PCS GSM/EDGE Phone with BT & WLAN

Model Name : VER-01

Applied Standards : FCC Part 15 : 2009, Subpart B, Class B

ANSI C63.4 : 2003

CISPR 22 : 2006

Date of Receipt : March 11, 2010

Date of Test : March 22, 2010 ~ March 26, 2010

Date of Issue : April 06, 2010

Test Results : Complied

Tested by :



Elf Yoon

Reviewed by :



Forest Lee

Remarks :

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. 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. Any mention of SGS International Electrical Approvals or Testing done by SGS International Electrical Approvals in connection with distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.

Contents

1. General Information.....	3
1.1 Client Information.....	3
1.2 Test Laboratory.....	3
1.3 General Information of E.U.T.	3
1.4 Operating Modes and Conditions.....	3
1.5 Peripheral Equipments.....	3
1.6 Cable List.....	4
1.7 System Configurations.....	4
1.8 Test System Layout	4
1.9 Applicable Standards for Testing	5
1.10 Summary of Test Results.....	5
2. Emission Test.....	6
2.1 Test Results.....	6
2.2 Test Equipments	6
2.3 Test Site.....	6
2.4 Conducted Emission Test Data.....	6
2.5 Radiated Emission Test Data.....	8
2.6 Modifications	8
2.7 Photograph of Conducted Emission.....	9
2.8 Photographs of Radiated Emission (Below 1GHz).....	10
2.9 Photographs of Radiated Emission (Above 1GHz)	11
3. Photographs of EUT	12
Appendix A : Conducted Emission	18

1. General Information

1.1 Client Information

Applicant : ModeLabs Manufacture SAS
Address of Applicant : 11 bis rue Roquepine, 75008 Paris, France
Manufacturer : ModeLabs Manufacture SAS
Address of Manufacturer : 11 bis rue Roquepine, 75008 Paris, France

1.2 Test Laboratory

Name and Address : SGS Testing Korea Co., Ltd.
18-34, Sanbon-dong, Gunpo, Gyeonggi-do, Korea
435-041

1.3 General Information of E.U.T.

Product Name : Cellular/PCS GSM/EDGE Phone with BT & WLAN
Model Name : VER-01
Serial No. : 001KPQJ685036
Highest Internal Frequency : Max.312 MHz

1.4 Operating Modes and Conditions

Operating mode	Operating condition
USB Mode	USB Data Communication

1.5 Peripheral Equipments

Description	Model	Serial No.	Manufacturer
Notebook Computer	PCG-3AHP	28272287 7000053	Sony Corporation
LCD Monitor	CR22KS	N843H1KP902165L	Samsung Electronics
USB Keyboard	KU-0459	7691402003981	Microsoft
USB MOUSE	Wheel mouse optical	0447	Microsoft Corporation
Micro SD Card	Mobile Ultra 2GB	N/A	SanDisk

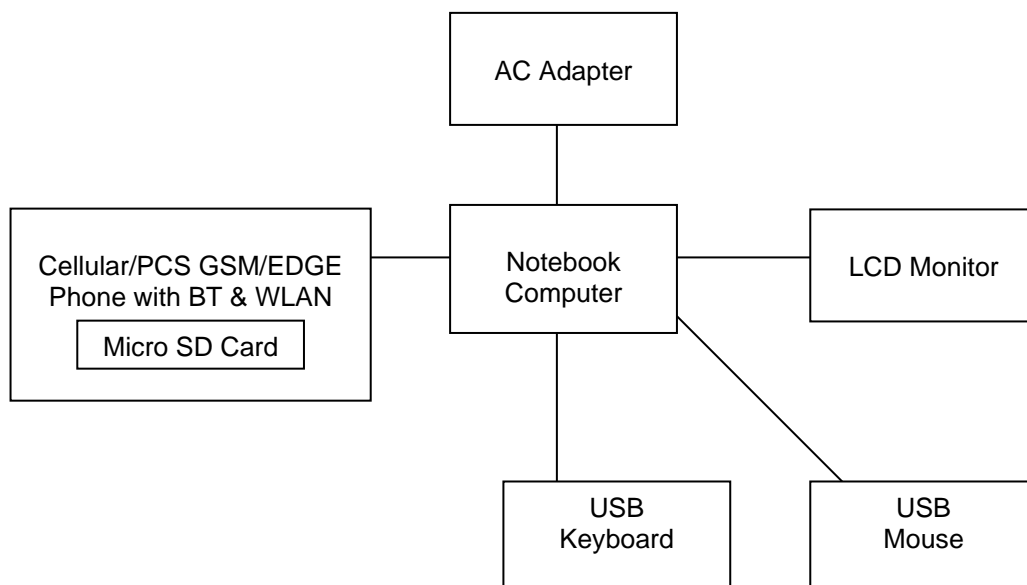
1.6 Cable List

Start		END		Cable Spec.	
Name	I/O Port	Name	I/O Port	Length	Shield
Cellular/PCS GSM/EDGE Phone with BT & WLAN	USB	Notebook Computer	USB	1.2	Shielded
	MicroSD	Micro SD Card	-	-	-
Notebook Computer	DC IN	AC Adapter	DC OUT	1.8	Unshielded
	RGB	LCD Monitor	RGB	1.8	Shielded
	USB	USB Keyboard	-	1.7	Shielded
	USB	USB Mouse	-	1.8	Shielded
AC Adapter	AC IN	AC Source	-	1.0	Unshielded

1.7 System Configurations

Description	Model	Serial No.	Manufacturer
Antenna	N/A	N/A	N/A
Battery	LGIP-580A	DC091230	LG
LCD&Camera Module	N/A	N/A	N/A
Main Board	N/A	N/A	N/A
Speaker Module	SPCY0158601_1.1	N/A	N/A
Sub Board	N/A	N/A	N/A

1.8 Test System Layout



1.9 Applicable Standards for Testing

Standards	Status	Deviation
FCC Part 15, Subpart B ANSI C63.4 : 2003 CISPR 22 : 2006	Applicable	No Deviation

1.10 Summary of Test Results

Test Item	Standards	Results
Conducted Emission	FCC Part 15, Subpart B ANSI C63.4 : 2003 CISPR 22 : 2006	Complied
Radiated Emission	FCC Part 15, Subpart B ANSI C63.4 : 2003 CISPR 22 : 2006	Complied

EMISSION

2.1 Test Results

Test Items	Standards	Test Results
Conducted Emission	FCC Part 15, Subpart B ANSI C63.4 : 2003 CISPR 22 : 2006	Complied
Radiated Emission	FCC Part 15, Subpart B ANSI C63.4 : 2003 CISPR 22 : 2006	Complied

2.2 Test Equipments

Equipment	Model	Manufacturer	Last Cal. Date
Two-Line V-Network	ENV216	R&S	2010.01.06
Test Receiver	ESHS10	R&S	2009.07.13
LISN	L3-25	PMM	2009.07.02
Test Receiver	ESU26	R&S	2009.04.21
Amplifier	8447F	HP	2009.07.02
Bi-Log Antenna	VULB9163	SCHWARZBECK MESS-ELEKTRONIK	2009.07.22
Preamplifier	8449B	Agilent	2010.03.31
Horn Antenna	HF906	R&S	2009.10.08

Note : Only the calibration period of Antennas is 2 years but the period of every equipment is 1 year.

2.3 Test Site

Conducted Emission: Shield Room in Gunpo Laboratory

Radiated Emission: 3m Semi-Anechoic chamber in Gunpo Laboratory

2.4 Conducted Emission Test Data

The initial preliminary exploratory scans were performed using a max hold mode incorporating a Peak detector. The final test data was measured using a Quasi-Peak detector and Average detector.

Temperature : 22.3 °C

Humidity : 41.0 % RH

Atmospheric Pressure : 101.3 kPa

FREQ. (MHz)	LINE	LEVEL(dB μ V)		LIMIT(dB μ V)		MARGIN(dB)	
		Q-Peak	Average	Q-Peak	Average	Q-Peak	Average
0.33	N	38.30	30.50	59.45	49.45	21.15	18.95
0.48	H	37.40	31.30	56.34	46.34	18.94	15.04
0.97	N	39.00	29.10	56.00	46.00	17.00	16.90
2.13	N	40.30	30.20	56.00	46.00	15.70	15.80
2.61	H	36.60	26.50	56.00	46.00	19.40	19.50
16.81	H	31.80	24.40	60.00	50.00	28.20	25.60

Note : • Line (H) : Hot
• Line (N) : Neutral
• Margin = Limit - Level

See Appendix A (Conducted Emission)

2.5 Radiated Emission Test Data

The initial preliminary exploratory scans were performed using a max hold mode incorporating a Peak detector. The final test data was measured using a Quasi-Peak detector below 1GHz and a Average detector above 1GHz.

Below 1GHz

Temperature : 23.3 °C

Humidity : 31 % RH

Atmospheric Pressure : 101.8 kPa

FREQ. (MHz)	LEVEL (dB μ V)	POL (H/V)	AF (dB)	CL (dB)	Amp (dB)	F/S (dB μ V/m)	LIMIT (dB μ V/m)	MARGIN (dB)
56.79	47.50	V	11.65	0.76	28.21	31.70	40.00	8.30
144.00	54.60	V	7.58	1.18	27.89	35.47	43.50	8.03
240.00	49.20	H	12.10	1.53	27.42	35.41	46.00	10.59
266.70	48.30	H	12.35	1.62	27.37	34.90	46.00	11.10
336.00	41.90	H	14.37	1.80	27.59	30.48	46.00	15.52
719.91	43.20	H	20.20	2.63	28.76	37.27	46.00	8.73

Note: • AF = Antenna Factor • CL = Cable Loss • F/S = Field Strength
• POL H = Horizontal • POL V = Vertical • Amp = Amplifier Gain
• Margin = Limit – F/S • F/S = Level + AF + CL – Amp

Above 1GHz

Temperature : 23.1 °C

Humidity : 31.0 % RH

Atmospheric Pressure : 101.8 kPa

FREQ. (MHz)	LEVEL (dB μ V)	POL (H/V)	AF (dB)	CL (dB)	Amp (dB)	F/S (dB μ V/m)	LIMIT (dB μ V/m)	MARGIN (dB)
Average Detector								
1200.00	36.90	V	25.03	3.45	34.50	30.88	54.00	23.12
1294.16	37.40	H	24.91	3.51	34.82	31.00	54.00	23.00
1466.64	53.00	H	25.29	3.71	35.72	46.29	54.00	7.71
1664.37	35.30	H	25.99	3.91	35.01	30.19	54.00	23.81
1995.33	34.30	H	27.50	4.48	34.73	31.55	54.00	22.45

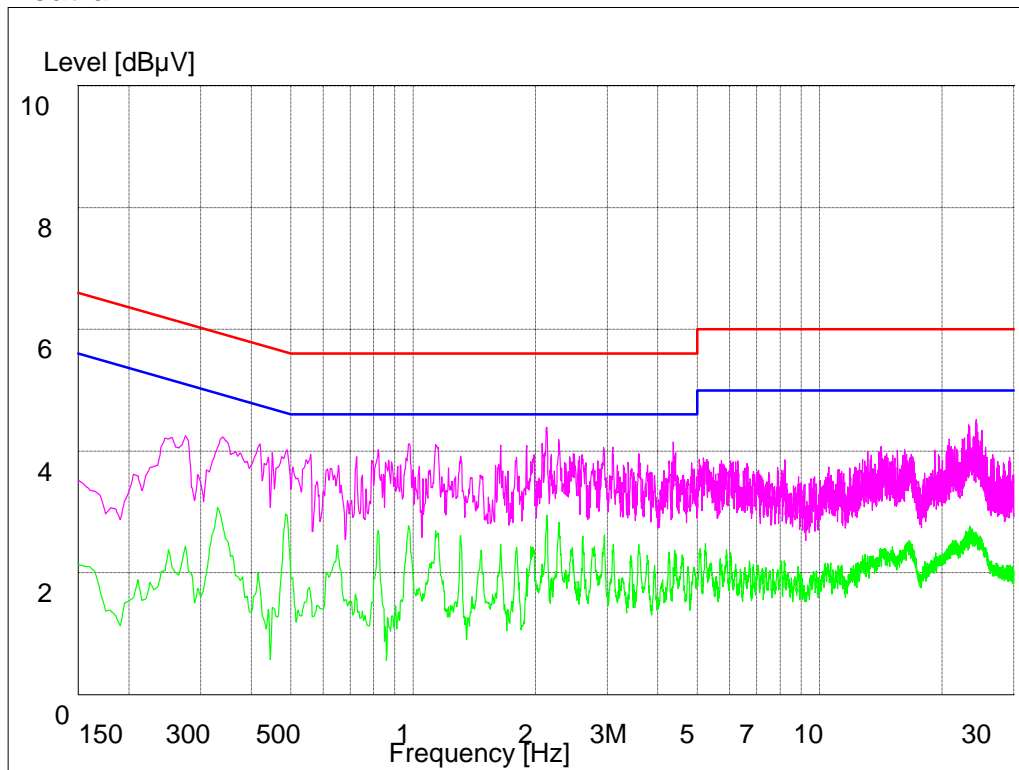
Note: • AF = Antenna Factor • CL = Cable Loss • F/S = Field Strength
• POL H = Horizontal • POL V = Vertical • Amp = Amplifier Gain
• Margin = Limit – F/S • F/S = Level + AF + CL - Amp

2.6 Modifications

There was no modified item during the test.

Appendix A : Conducted Emission

Neutral



Hot

