

APPLICANT : Doro AB

EQUIPMENT: GSM Tri-band Digital Mobile Telephone

BRAND NAME : Doro

MODEL NAME : Doro PhoneEasy 410gsm

FCC ID : WS5DORO410G

STANDARD : FCC 47 CFR Part 2, 22(H), 24(E)

CLASSIFICATION : PCS Licensed Transmitter Held to Ear (PCE)

This is a variant report which is only valid together with the original test report. The product was received on Oct. 22, 2012 and completely tested on Oct. 31, 2012. We, SPORTON INTERNATIONAL (KUNSHAN) INC., would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI / TIA / EIA-603-C-2004 and shown compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL (KUNSHAN) INC., the test report shall not be reproduced except in full.

Reviewed by:

Jones Tsai / Manager





Report No.: FG951903-04

SPORTON INTERNATIONAL (KUNSHAN) INC. No. 3-2, PingXiang Road, Kunshan, Jiangsu Province, P.R.C.

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: WS5DORO410G Page Number : 1 of 23
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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG951903-04	Rev. 01	This is a variant report for Doro PhoneEasy 410gsm. The product equality declaration could be referred to Appendix C. All test cases were performed on original test report which can be referred to SPORTON Report Number FG952506. Based on the original test report, only the Conducted Power, ERP/ERIP and Radiated Spurious Emission were verified for the differences.	Nov. 02, 2012

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SUMMARY OF TEST RESULT

Report Section	FCC Rule	IC Rule	Description	Limit	Result	Remark
3.1	§2.1046	N/A	Conducted Output Power	N/A	PASS	-
3.2	§22.913(a)(2)	RSS-132(4.4) SRSP-503(5.1.3)	Effective Radiated Power	< 7 Watts	PASS	-
3.2	§24.232(c)	RSS-133 (6.4) SRSP-510(5.1.2)	Equivalent Isotropic Radiated Power	< 2 Watts	PASS	-
3.3	§2.1053 §22.917(a) §24.238(a)	RSS-132 (4.5.1) RSS-133 (6.5.1)	Field Strength of Spurious Radiation	< 43+10log ₁₀ (P[Watts])	PASS	Under limit 23.82 dB at 1672.000 MHz

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1 General Description

1.1 Applicant

Doro AB

Magistratsvägen 10 SE-226 43 Lund Sweden

1.2 Manufacturer

CK TELECOM LTD.

Technology Road, High-Tech Development Zone, Heyuan, Guangdong, P.R.China.

1.3 Feature of Equipment Under Test

	Product Feature
Equipment	GSM Tri-band Digital Mobile Telephone
Brand Name	Doro
Model Name	Doro PhoneEasy 410gsm
FCC ID	WS5DORO410G
EUT supports Radios application	GSM / Bluetooth
HW Version	SHELL-V1.0
SW Version	SHELL_S02_2V8_DORO410_L14EN_215_091201_MCP12 8+32_BT_FM_TB
EUT Stage	Identical Prototype

Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

Product Specification subjective to this standard					
Tx Frequency	GSM850: 824.2 MHz ~ 848.8 MHz GSM1900: 1850.2 MHz ~ 1909.8MHz				
Rx Frequency	GSM850: 869.2 MHz ~ 893.8 MHz GSM1900: 1930.2 MHz ~ 1989.8 MHz				
Maximum Output Power to Antenna	GSM850 : 32.22 dBm GSM1900 : 30.32 dBm				
Antenna Type	Fixed Internal Antenna				
Type of Modulation	GMSK				

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1.4 Maximum ERP/EIRP Power

FCC Rule	System	Type of Modulation	Maximum ERP/EIRP (W)
Part 22	GSM850 GSM	GMSK	0.2612
Part 24	GSM1900 GSM	GMSK	0.4406

1.5 Testing Site

Test Site	SPORTON INTERNATIONAL (KUNSHAN) INC.				
	No. 3-2, PingXiang Road, Kunshan, Jiangsu Province, P.R.C.				
Test Site Location	TEL: +86-0512-5790-0158				
	FAX: +86-0512-5790-0958				
Took Site No	Sporton Site No.		FCC/IC Registration No.		
Test Site No.	TH01-KS	03CH01-KS	149928/4086E-1		

1.6 Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- FCC 47 CFR Part 2, 22(H), 24(E)
- ANSI / TIA / EIA-603-C-2004
- FCC KDB 971168 D01 Power Meas. License Digital Systems v01
- IC RSS-132 Issue 2
- IC RSS-133 Issue 5

Remark:

- All test items were verified and recorded according to the standards and without any deviation during the test.
- 2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

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1.7 Ancillary Equipment List

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	System Simulator	R&S	CMU200	N/A	N/A	Unshielded, 1.8 m
2.	DC Power Supply	GWINSTEK	GPS-3030D	N/A	N/A	Unshielded, 1.8 m

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Test Configuration of Equipment Under Test 2

2.1 **Test Mode**

During all testing, EUT is in link mode with base station emulator at maximum power level. The spurious emission measurements were carried out in semi-anechoic chamber with 3-meter test range, and EUT is rotated on three test planes to find out the worst emission.

Frequency range investigated for radiated emission is as follows:

- 30 MHz to 9000 MHz for GSM850.
- 2. 30 MHz to 19000 MHz for GSM1900.

Test Modes							
Band	Conducted TCs						
GSM 850	■ GSM Link	■ GSM Link					
GSM 1900	■ GSM Link	■ GSM Link					

Note:

- 1. The maximum power levels are GSM modes for GMSK link, only these modes were used for all tests.
- 2. Because there are individual antennas for each WWAN, and Bluetooth, the co-location test modes are not required.

The conducted power tables are as follows:

Conducted Power (*Unit: dBm)						
Band GSM850 GSM1900						
Channel 128 189 251				512	661	810
Frequency	824.2	836.4	848.8	1850.2	1880.0	1909.8
GSM	<mark>32.22</mark>	32.03	31.89	29.94	30.09	<mark>30.32</mark>

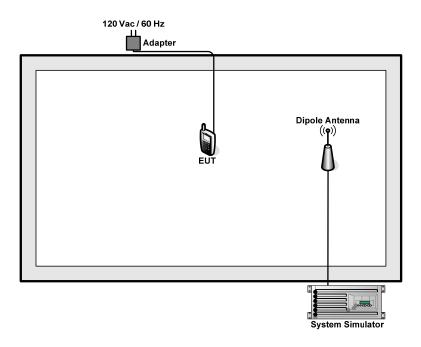
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2.2 Connection Diagram of Test System



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3 Test Result

3.1 Conducted Output Power Measurement

3.1.1 Description of the Conducted Output Power Measurement

A base station simulator was used to establish communication with the EUT. Its parameters were set to transmit the maximum power on the EUT. The measured power in the radio frequency on the transmitter output terminals shall be reported.

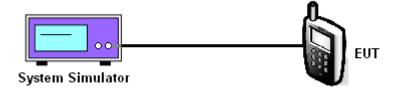
3.1.2 Measuring Instruments

See list of measuring instruments of this test report.

3.1.3 Test Procedures

- 1. The transmitter output port was connected to base station.
- 2. Set EUT at maximum power through base station.
- 3. Select lowest, middle, and highest channels for each band and different modulation.
- 4. Measure the maximum burst average power for GSM and maximum average power for other modulation signal.

3.1.4 Test Setup



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3.1.5 Test Result of Conducted Output Power

Cellular Band						
Modes		GSM850 (GSM)				
Channel	128 (Low) 189 (Mid) 251 (High)					
Frequency (MHz)	824.2 836.4 848.8					
Conducted Power (dBm)	32.22 32.03 31.89					
Conducted Power (Watts)	1.67	1.60	1.55			

PCS Band							
Modes	GSM1900 (GSM)						
Channel	512 (Low) 661 (Mid) 810 (High)						
Frequency (MHz)	1850.2 1880 1909.8						
Conducted Power (dBm)	29.94	30.09	30.32				
Conducted Power (Watts)	0.99	1.02	1.08				

Note: maximum burst average power for GSM.

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Effective Radiated Power and Effective Isotropic Radiated Power 3.2 Measurement

3.2.1 Description of the ERP/EIRP Measurement

The substitution method, in ANSI / TIA / EIA-603-C-2004, was used for ERP/EIRP measurement, and the spectrum analyzer configuration follows KDB 971168 D01 Power Meas. License Digital Systems v01. The ERP of mobile transmitters must not exceed 7 Watts and the EIRP of mobile transmitters are limited to 2 Watts.

3.2.2 Measuring Instruments

See list of measuring instruments of this test report.

3.2.3 Test Procedures

- 1. The EUT was placed on a turntable with 1.5 meter height in a fully anechoic chamber.
- 2. The EUT was set at 3 meter from the receiving antenna, which was mounted on the antenna tower.
- GSM operating modes: Set RBW= 1MHz, VBW= 3MHz, RMS detector over burst; 3. UMTS operating modes: Set RBW= 100 KHz, VBW= 300 KHz, RMS detector over frame, and use channel power option with bandwidth=5MHz, per section 4.0 of KDB 971168 D01.
- 4. The table was rotated 360 degrees to determine the position of the highest radiated power.
- 5. The height of the receiving antenna is adjusted to look for the maximum ERP/EIRP.
- Taking the record of maximum ERP/EIRP. 6.
- 7. A dipole antenna was substituted in place of the EUT and was driven by a signal generator.
- 8. The conducted power at the terminal of the dipole antenna is measured.
- 9. Repeat step 3 to step 5 to get the maximum ERP/EIRP of the substitution antenna.
- 10. ERP/EIRP = Ps + Et Es + Gs = Ps + Rt Rs + Gs

Ps (dBm): Input power to substitution antenna.

Gs (dBi or dBd): Substitution antenna Gain.

Et = Rt + AF

Es = Rs + AF

AF (dB/m): Receive antenna factor

Rt: The highest received signal in spectrum analyzer for EUT.

Rs: The highest received signal in spectrum analyzer for substitution antenna.

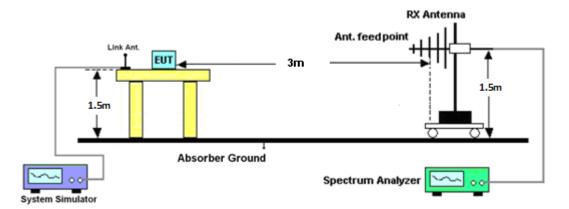
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3.2.4 Test Setup



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3.2.5 Test Result of ERP

	GSM850 (GSM) Radiated Power ERP								
	Horizontal Polarization								
Frequency	Rt	Rs	Ps	Gs	ERP	ERP			
(MHz)	(dBm)	(dBm)	(dBm)	(dBd)	(dBm)	(W)			
824.20	-23.90	-48.12	0.00	-1.08	23.14	0.2061			
836.40	-24.28	-48.28	0.00	-0.93	23.07	0.2028			
848.80	-23.42	-48.35	0.00	-0.76	24.17	0.2612			
		Ve	ertical Polarizati	on					
Frequency	Rt	Rs	Ps	Gs	ERP	ERP			
(MHz)	(dBm)	(dBm)	(dBm)	(dBd)	(dBm)	(W)			
824.20	-28.69	-47.97	0.00	-1.08	18.20	0.0661			
836.40	-29.76	-48.01	0.00	-0.93	17.32	0.0540			
848.80	-29.68	-48.05	0.00	-0.76	17.61	0.0577			

3.2.6 Test Result of EIRP

	GSM1900 (GSM) Radiated Power EIRP									
		Hoi	rizontal Polariza	tion						
Frequency (MHz)	Rt Rs Ps Gs EIRP EIRP (dBm) (dBm) (dBi) (dBm) (W)									
1850.20	-28.18	-51.88	0.00	1.96	25.66	0.3681				
1880.00	-29.45	-52.99	0.00	2.00	25.54	0.3581				
1909.80	-30.30	-54.28	0.00	1.98	25.96	0.3945				
		Ve	ertical Polarizati	on	•					
Frequency (MHz)										
1850.20	-27.65	-52.13	0.00	1.96	26.44	0.4406				
1880.00	-28.95	-53.17	0.00	2.00	26.22	0.4188				
1909.80	-29.81	-54.13	0.00	1.98	26.30	0.4266				

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3.3 Field Strength of Spurious Radiation Measurement

3.3.1 Description of Field Strength of Spurious Radiated Measurement

The radiated spurious emission was measured by substitution method according to ANSI / TIA / EIA-603-C-2004. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least 43 + 10 log (P) dB. The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

3.3.2 Measuring Instruments

See list of measuring instruments of this test report.

3.3.3 Test Procedures

- 1. The EUT was placed on a rotatable wooden table with 0.8 meter above ground.
- 2. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
- 3. The table was rotated 360 degrees to determine the position of the highest spurious emission.
- 4. The height of the receiving antenna is varied between one meter and four meters to search the maximum spurious emission for both horizontal and vertical polarizations.
- 5. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
- 6. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
- 7. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
- 8. Taking the record of output power at antenna port.
- 9. Repeat step 7 to step 8 for another polarization.
- 10. EIRP (dBm) = S.G. Power Tx Cable Loss + Tx Antenna Gain
- 11. ERP (dBm) = EIRP 2.15

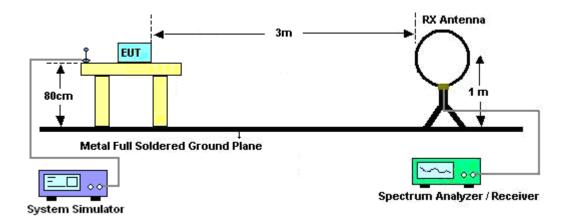
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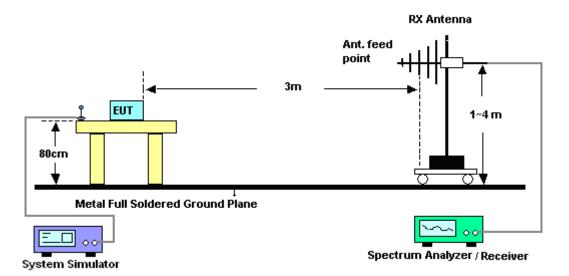
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3.3.4 Test Setup

For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



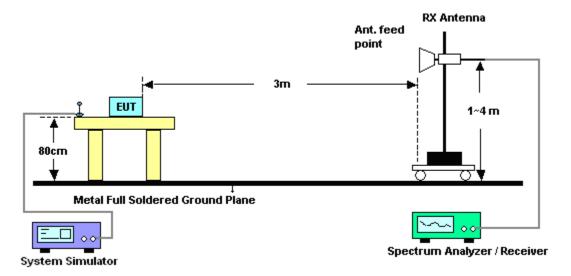
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For radiated emissions above 1GHz



3.3.5 Test Results of Radiated Emissions (9 KHz ~ 30 MHz)

The low frequency, which started from 9 KHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line per 15.31(o) was not reported.

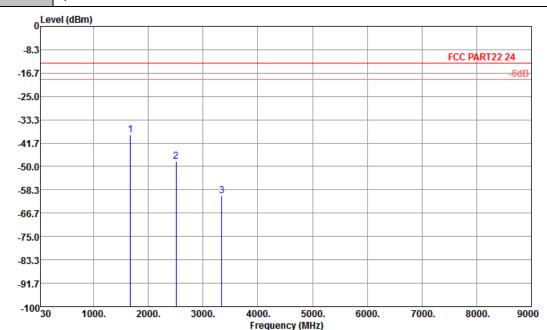
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3.3.6 Test Result of Field Strength of Spurious Radiated

Band :	GSM850	Temperature :	21~22°C				
Test Mode :	GSM Link	Relative Humidity :	46~47%				
Test Engineer :	henmy Cheng Polarization : Horizontal						
Damaris .	Courier a prejection of within 20 4000MHz upon found more than 20 dD below limit line						

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



Site : 03CH01-KS

Condition : FCC PART22 24 HF EIRP FACTOR-09020 HORIZONTAL

Project : (FG) 951903-04

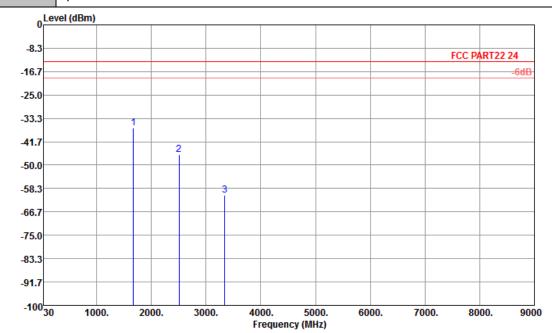
Plan : E1

Frequency	ERP	Limit	Over	SPA	S.G.	TX Cable	TX Antenna	Polarization	Result
			Limit	Reading	Power	loss	Gain		
(MHz)	(dBm)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dBi)	(H/V)	
1672	-38.85	-13	-25.85	-39.25	-39.58	1.2	4.08	Н	Pass
2508	-48.23	-13	-35.23	-53.64	-50.76	1.55	6.23	Н	Pass
3345	-60.50	-13	-47.50	-65.68	-63.68	2.1	7.43	Н	Pass

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Band :	GSM850	Temperature :	21~22°C
Test Mode :	GSM Link	Relative Humidity :	46~47%
Test Engineer :	Chenmy Cheng	Polarization :	Vertical

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



Site : 03CH01-KS

Condition : FCC PART22 24 HF EIRP FACTOR-09020 VERTICAL

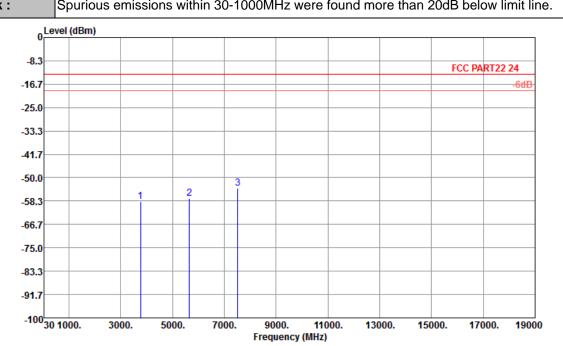
Project : (FG) 951903-04

Plan : E1

Frequency	ERP	Limit	Over	SPA	S.G.	TX Cable	TX Antenna	Polarization	Result
			Limit	Reading	Power	loss	Gain		
(MHz)	(dBm)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dBi)	(H/V)	
1672	-36.82	-13	-23.82	-38.53	-37.55	1.20	4.08	V	Pass
2509	-46.19	-13	-33.19	-52.13	-48.72	1.55	6.23	V	Pass
3345	-60.73	-13	-47.73	-65.63	-63.91	2.10	7.43	V	Pass

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Band :	GSM1900	Temperature :	21~22°C			
Test Mode :	GSM Link	Relative Humidity :	46~47%			
Test Engineer :	Chenmy Cheng Polarization : Horizontal					
Domark .	Spurious emissions within 20 1000MHz were found more than 20dB helpy limit line					



Site : 03CH01-KS

Condition : FCC PART22 24 HF EIRP FACTOR-09020 HORIZONTAL

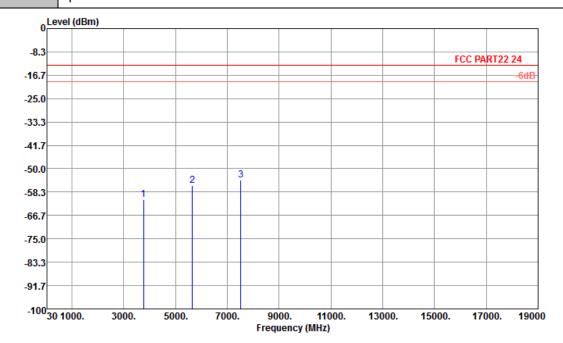
Project : (FG) 951903-04

Plan : E1

Frequency	EIRP	Limit	Over	SPA	S.G.	TX Cable	TX Antenna	Polarization	Result
			Limit	Reading	Power	loss	Gain		
(MHz)	(dBm)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dBi)	(H/V)	
3760	-58.57	-13	-45.57	-65.68	-63.97	2.51	7.91	Н	Pass
5640	-57.25	-13	-44.25	-69.07	-64.29	3.09	10.13	Н	Pass
7520	-53.69	-13	-40.69	-69.57	-62.16	3.11	11.58	Н	Pass

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Band :	GSM1900	Temperature : 21~22°C					
Test Mode :	GSM Link	Relative Humidity :	46~47%				
Test Engineer :	Chenmy Cheng Polarization : Vertical						
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.						



Site : 03CH01-KS

Condition : FCC PART22 24 HF EIRP FACTOR-09020 VERTICAL

Project : (FG) 951903-04

Plan : E1

Frequency	EIRP	Limit	Over	SPA	S.G.	TX Cable	TX Antenna	Polarization	Result
			Limit	Reading	Power	loss	Gain		
(MHz)	(dBm)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dBi)	(H/V)	
3760	-61.10	-13	-48.10	-66.73	-68.14	3.09	10.13	V	Pass
5640	-56.08	-13	-43.08	-67.01	-64.62	1.04	9.58	V	Pass
7520	-54.04	-13	-41.04	-69.35	-62.51	3.11	11.58	V	Pass

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4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristic s	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSP40	100319	9kHz~40GHz	Dec. 30, 2011	Oct. 31, 2012	Dec. 29, 2012	Conducted (TH01-KS)
System Simulator	R&S	CMU200	837587/066	2G Full-Band	Dec. 30, 2011	Oct. 31, 2012	Dec. 29, 2012	Conducted (TH01-KS)
DC Power Supply	GWINSTEK	GPS-3030D	E1884515	N/A	Aug. 22, 2012	Oct. 31, 2012	Aug. 21, 2013	Conducted (TH01-KS)
Thermal Chamber	Ten Billion	TTC-B3S	TBN-960502	N/A	Dec. 30, 2011	Oct. 31, 2012	Dec. 29, 2012	Conducted (TH01-KS)
EMI Test Receiver	R&S	ESCI	100534	9kHz~3GHz	Nov. 09, 2011	Oct. 31, 2012	Nov. 08, 2012	Radiation (03CH01-KS)
Spectrum Analyzer	R&S	FSP40	100319	9kHz~40GHz	Dec. 30, 2011	Oct. 31, 2012	Dec. 29, 2012	Radiation (03CH01-KS)
Bilog Antenna	SCHAFFNER	CBL6112D	23182	25MHz~2GHz	Dec. 08, 2011	Oct. 31, 2012	Dec. 07, 2012	Radiation (03CH01-KS)
Double Ridge Horn Antenna	EMCO	3117	00075959	1GHz~18GHz	Jan. 06, 2012	Oct. 31, 2012	Jan. 05, 2013	Radiation (03CH01-KS)
Amplifier	Wireless	FPA-6592G	060007	30MHz~2GHz	Dec. 30, 2011	Oct. 31, 2012	Dec. 29, 2012	Radiation (03CH01-KS)
Amplifier	Agilent	8449B	3008A02370	1GHz~26.5GH z	Dec. 30, 2011	Oct. 31, 2012	Dec. 29, 2012	Radiation (03CH01-KS)
SHF-EHF Horn	Schwarzbeck	BBHA 9170	9170249	15GHz-40GHz	Oct. 10, 2012	Oct. 31, 2012	Oct. 09, 2013	Radiation (03CH01-KS)
Loop Antenna	R&S	HFH2-Z2	860004/001	9KHz ~ 30MHz	Jul. 03, 2012	Oct. 31, 2012	Jul. 02, 2014	Radiation (03CH01-KS)
Signal Generator	R&S	SMR40	100455	10MHz-40GHz	Dec. 30, 2011	Oct. 31, 2012	Dec. 29, 2012	Radiation (03CH01-KS)
System Simulator	R&S	CMU200	116456	Full-Band	Sep. 19, 2012	Oct. 31, 2012	Sep. 18, 2013	Radiation (03CH01-KS)

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5 Uncertainty of Evaluation

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of	2.54
Confidence of 95% (U = 2Uc(y))	2.54

Uncertainty of Radiated Emission Measurement (1 GHz ~ 40 GHz)

	
Measuring Uncertainty for a Level of	
Confidence of 95%	4.72
(U = 2Uc(y))	

SPORTON INTERNATIONAL (KUNSHAN) INC.

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Appendix C. Product Equality Declaration

SPORTON INTERNATIONAL (KUNSHAN) INC.

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CK TELECOM LTD.

Technology Road.High-Tech Development Zone. Heyuan, Guangdong,P.R.China. TEL:0755-26739633/FAX:0755-26739500

Date: November 5, 2012

Product Equality Declaration

We, CK TELECOM LTD., declare on our sole responsibility for the product of Doro PhoneEasy 410gsm below:

The differences between previous model Doro PhoneEasy 410gsm and current of Doro PhoneEasy 410gsm are as below:

1.Model name of LCD from TFT1P4448-E to TFT3P4064-E

2.Software changed from SHELL_S02_DORO410_L14EN_200_090525_MCP128+32_BT_FM to SHELL_S02_2V8_DORO410_L14EN_215_091201_MCP128+32_BT_FM_TB

Except listings above, the others are all the same as previous version.

Should you have any questions or comments regarding this matter, please have my best attention.

Sincerely yours,

lixin

Contact Person: Xin Li

Company: CK TELECOM LTD.

Tel: 0755-26739633 Fax: 0755-26739500

E-Mail: xin.li@ck-telecom.com