# Variant FCC RF Test Report

APPLICANT : Doro AB

**EQUIPMENT**: GSM/GPRS WCDMA Mobile Telephone

BRAND NAME : doro

MODEL NAME : Doro PhoneEasy 626
MARKETING NAME : Doro PhoneEasy 626

FCC ID : WS5DORO626

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 Aug. 10, 2016 and testing was completed on Sep. 16, 2016. We, SPORTON INTERNATIONAL (SHENZHEN) INC., would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI / TIA / EIA-603-D-2010 and has been in 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 (SHENZHEN) INC., the test report shall not be reproduced except in full.

Prepared by: Ken Chen / Manager

Von Cher

Approved by: Jones Tsai / Manager

### SPORTON INTERNATIONAL (SHENZHEN) INC.

1F & 2F, Building A, Morning Business Center, No. 4003 ShiGu Rd., Xili Town, Nanshan District, Shenzhen, Guangdong, P. R. China

SPORTON INTERNATIONAL (SHENZHEN) INC.

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Testing Laboratory

Report No.: FG312203-05

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# **REVISION HISTORY**

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG312203-05	Rev. 01	This is a variant report for Doro PhoneEasy 626. The product equality declaration could be referred to Appendix E. Based on the similarity between two models, only the conducted power, ERP/EIRP, and the worst cases of Spurious Radiation from original test report (Sporton Report Number FG312203-01) were verified for the differences.	Oct. 28, 2016
FG312203-05	Rev. 02	Updated report for revising SW version.	Nov. 03, 2016

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# **SUMMARY OF TEST RESULT**

Report Section	FCC Rule	ıle Description Limit		Result	Remark
3.4	§2.1046	Conducted Output Power	Reporting Only	PASS	-
4.4	§22.913(a)(2)	Effective Radiated Power	< 7 Watts	PASS	-
4.4	§24.232(c)	Equivalent Isotropic Radiated Power	< 2 Watts	PASS	-
4.5	§2.1053 §22.917(a) §24.238(a)	Field Strength of Spurious Radiation	< 43+10log10(P[Watts])	PASS	Under limit 25.74 dB at 3700.400 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 Product Feature of Equipment Under Test

Product Feature				
Equipment	GSM/GPRS WCDMA Mobile Telephone			
Brand Name doro				
Model Name	Doro PhoneEasy 626			
Marketing Name	Doro PhoneEasy 626			
FCC ID	WS5DORO626			
EUT supports Radios application	GSM/GPRS/WCDMA/HSPA/Bluetooth v2.1 + EDR			
IMEI Code	Radiation: 359574055659636/359574055659883 ERP/EIRP: 359574055660741/359574055659883/359574055659636			
HW Version	SHUTTLE-V2.0_1031			
SW Version	SHUTTLE-S13A_DORO626_L3EN_307_160913			
EUT Stage	Production Unit			

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

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# 1.4 Product Specification of Equipment Under Test

Standards-related Product Specification				
	GSM/GPRS:			
	850:	824.2 MHz ~ 848.8 MHz		
Ty Fraguency	1900:	1850.2 MHz ~ 1909.8MHz		
Tx Frequency	WCDMA:			
	Band V:	826.4 MHz ~ 846.6 MHz		
	Band II:	1852.4 MHz ~ 1907.6 MHz		
	GSM/GPR	RS:		
	850:	869.2 MHz ~ 893.8 MHz		
Dy Fraguency	1900:	1930.2 MHz ~ 1989.8 MHz		
Rx Frequency	WCDMA:			
	Band V:	871.4 MHz ~ 891.6 MHz		
	Band II:	1932.4 MHz ~ 1987.6 MHz		
	GSM/GPRS:			
	850:	32.01 dBm		
Maximum Output Power to Antenna	1900:	29.48 dBm		
Maximum Output Fower to Antenna	WCDMA:			
	Band V:	22.36 dBm		
	Band II:	22.56 dBm		
Antenna Type	Fixed Interr	nal Antenna		
	GSM: GMS			
L	GPRS: GMSK			
Type of Modulation	WCDMA: QPSK (Uplink)			
	HSDPA: QPSK (Uplink) HSUPA: QPSK (Uplink)			
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### 1.5 Modification of EUT

No modifications are made to the EUT during all test items.

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# 1.6 Maximum ERP/EIRP Power, Frequency Tolerance, and Emission Designator

FCC Rule	System	Type of Modulation	Maximum ERP/EIRP (W)	Frequency Tolerance (ppm)	Emission Designator
Part 22	GSM850 GSM	GMSK	1.7594	-	-
Part 22	WCDMA Band V RMC 12.2Kbps	BPSK	0.0896	-	-
Part 24	GSM1900 GSM	GMSK	0.8139	-	-
Part 24	WCDMA Band II RMC 12.2Kbps	BPSK	0.2122	-	-

### 1.7 Testing Location

Test Site	SPORTON INTERNATIONAL (SHENZHEN) INC.				
Test Site Location	No. 3 Building, the third floor of south, Shahe River west, Fengzeyuan warehouse, Nanshan District, Shenzhen, Guangdong, P.R.C.				
	TEL: +86-755- 3320-2398				
Test Site No.	Sporton Site No.	FCC/IC Registration No.			
rest site No.	03CH02-SZ	566869/4086F			

Note: The test site complies with ANSI C63.4 2014 requirement.

## 1.8 Applicable Standards

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

- 47 CFR Part 2, 22(H), 24(E)
- ANSI / TIA / EIA-603-D-2010
- FCC KDB 971168 D01 Power Meas. License Digital Systems v02r02

#### Remark:

- 1. 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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## 2 Test Configuration of Equipment Under Test

#### 2.1 Test Mode

Antenna port conducted and radiated test items were performed according to KDB 971168 D01 Power Meas. License Digital Systems v02r02 with maximum output power.

Radiated measurements were performed with rotating EUT in different three orthogonal test planes to find the maximum emission.

Radiated emissions were investigated as following frequency range:

- 1. 30 MHz to 10th harmonic for GSM850 and WCDMA Band V.
- 2. 30 MHz to 10th harmonic for GSM1900 and WCDMA Band II.

All modes and data rates and positions were investigated.

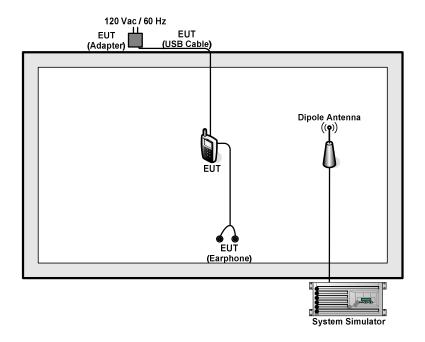
Test modes are chosen to be reported as the worst case configuration below:

Test Modes							
Band	Radiated TCs	Conducted TCs					
GSM 850	■ GSM Link	■ GSM Link					
GSM 1900	■ GSM Link	■ GSM Link					
WCDMA Band V	■ RMC 12.2Kbps Link	■ RMC 12.2Kbps Link					
WCDMA Band II	■ RMC 12.2Kbps Link	■ RMC 12.2Kbps Link					

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# 2.2 Connection Diagram of Test System



# 2.3 Support Unit used in test configuration

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	System Simulator	R&S	CMU 200	N/A	N/A	Unshielded, 1.8 m
2.	DC Power Supply	TOPWORD	3303DR	N/A	N/A	N/A

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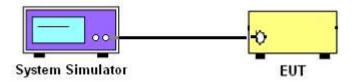
### 3 Conducted Test Result

## 3.1 Measuring Instruments

See list of measuring instruments of this test report.

### 3.2 Test Setup

### 3.2.1 Conducted Output Power



### 3.3 Test Result of Conducted Test

Please refer to Appendix A.

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#### 3.4 Conducted Output Power

#### 3.4.1 Description of the Conducted Output Power

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

#### 3.4.2 Test Procedures

- 1. The transmitter output port was connected to the system simulator.
- 2. Set EUT at maximum power through system simulator.
- 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.

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#### 4 Radiated Test Items

### 4.1 Measuring Instruments

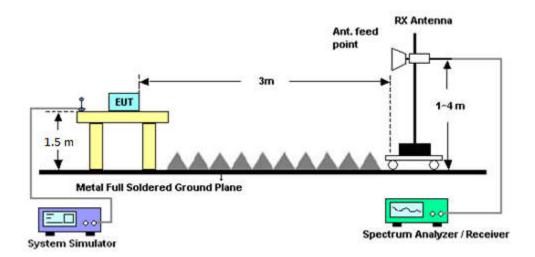
See list of measuring instruments of this test report.

# 4.2 Test Setup

#### 4.2.1 For radiated test from 30MHz to 1GHz



#### 4.2.2 For radiated test above 1GHz



#### 4.3 Test Result of Radiated Test

Please refer to Appendix B.

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# 4.4 Effective Radiated Power and Effective Isotropic Radiated Power Measurement

#### 4.4.1 Description of the ERP/EIRP Measurement

The substitution method, in ANSI / TIA / EIA-603-D-2010, was used for ERP/EIRP measurement, and the spectrum analyzer configuration follows KDB 971168 D01 Power Meas. License Digital Systems v02r02. The ERP of mobile transmitters must not exceed 7 Watts (Cellular Band) and the EIRP of mobile transmitters are limited to 2 Watts (PCS Band).

#### 4.4.2 Test Procedures

- The testing follows FCC KDB 971168 D01 v02r02 Section 5.2.1. (for CDMA/WCDMA), Section 5.2.2.2 (for GSM/GPRS/EDGE) and ANSI / TIA-603-D-2010 Section 2.2.17.
- 2. The EUT was placed on a non-conductive rotating platform (0.8 meters for frequency below 1GHz and 1.5 meter for frequency above 1GHz) in a semi-anechoic chamber. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and a spectrum analyzer with RMS detector per section 5. of KDB 971168 D01.
- 3. During the measurement, the system simulator parameters were set to force the EUT transmitting at maximum output power. The maximum emission was recorded from analyzer power level (LVL) from the 360 degrees rotation of the turntable and the test antenna raised and lowered over a range from 1 to 4 meters in both horizontally and vertically polarized orientations.
- 4. Effective Isotropic Radiated Power (EIRP) was measured by substitution method according to TIA/EIA-603-D. The EUT was replaced by the substitution antenna at same location, and then a known power from S.G. was applied into the dipole antenna through a Tx cable, and then recorded the maximum Analyzer reading through raised and lowered the test antenna. The correction factor (in dB) = S.G. Tx Cable loss + Substitution antenna gain Analyzer reading. Then the EUT's EIRP was calculated with the correction factor, EIRP = LVL + Correction factor and ERP = EIRP 2.15. Take the record of the output power at substitution antenna.

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	GSM/GPRS/EDGE	WCDMA/HSPA
SPAN	500kHz	10MHz
RBW	10kHz	100kHz
VBW	30kHz	300kHz
Detector	RMS	RMS
Trace	Average	Average
Average Type	Power	Power
Sweep Count	100	100

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### 4.5 Field Strength of Spurious Radiation Measurement

#### 4.5.1 Description of Field Strength of Spurious Radiated Measurement

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.

#### 4.5.2 Test Procedures

- The testing follows FCC KDB 971168 D01 v02r02 Section 5.8 and ANSI / TIA-603-D-2010 Section 2.2.12.
- 2. The EUT was placed on a rotatable wooden table 0.8 meters for frequency below 1GHz and 1.5 meter for frequency above 1GHz above the ground.
- 3. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
- 4. The table was rotated 360 degrees to determine the position of the highest spurious emission.
- 5. The height of the receiving antenna is varied between one meter and four meters to search for the maximum spurious emission for both horizontal and vertical polarizations.
- 6. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking record of maximum spurious emission.
- 7. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
- 8. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
- 9. Taking the record of output power at antenna port.
- 10. Repeat step 7 to step 8 for another polarization.
- 11. EIRP (dBm) = S.G. Power Tx Cable Loss + Tx Antenna Gain
- 12. ERP (dBm) = EIRP 2.15
- 13. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
- 14. The limit line is derived from 43 + 10log(P) dB below the transmitter power P(Watts)
  - = P(W) [43 + 10log(P)] (dB)
  - = [30 + 10log(P)] (dBm) [43 + 10log(P)] (dB)
  - = -13dBm.

# 5 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101041	10kHz~40GHz;Ma x 30dBm	Oct. 20, 2015	Sep. 16, 2016	Oct. 19, 2016	Radiation (03CH02-SZ)
Bilog Antenna	TeseQ	CBL6112D	35407	30MHz~2GHz	May 21, 2016	Sep. 16, 2016	May 20, 2017	Radiation (03CH02-SZ)
Double Ridge Horn Antenna	SCHWARZBECK	BBHA 9120D	9120D-1285	1GHz~18GHz	Jan. 11, 2016	Sep. 16, 2016	Jan. 10, 2017	Radiation (03CH02-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18GHz~40GHz	Aug. 10, 2016	Sep. 16, 2016	Aug. 09, 2017	Radiation (03CH02-SZ)
Amplifier	HP	8447F	3113A04622	9kHz~1300MHz / 30 dB	Jul. 16, 2016	Sep. 16, 2016	Jul. 15, 2017	Radiation (03CH02-SZ)
Amplifier	Agilent	8449B	3008A01023	1GHz~26.5GHz	Oct. 20, 2015	Sep. 16, 2016	Oct. 19, 2016	Radiation (03CH02-SZ)
HF Amplifier	MITEQ	TTA1840-35 -HG	1871923	18GHz~40GHz	Jul. 16, 2016	Sep. 16, 2016	Jul. 15, 2017	Radiation (03CH02-SZ
AC Power Source	Chroma	61601	61601000247 0	N/A	NCR	Sep. 16, 2016	NCR	Radiation (03CH02-SZ)
Turn Table	Chaintek	T-200	N/A	0~360 degree	NCR	Sep. 16, 2016	NCR	Radiation (03CH02-SZ)
Antenna Mast	Chaintek	MBS-400	N/A	1 m~4 m	NCR	Sep. 16, 2016	NCR	Radiation (03CH02-SZ)

NCR: No Calibration Required

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# 6 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence	5.0dB
of 95% (U = 2Uc(y))	3.0UB

#### **Uncertainty of Radiated Emission Measurement (1GHz ~ 18GHz)**

Measuring Uncertainty for a Level of Confidence	5.1dB
of 95% (U = 2Uc(y))	3. IUB

#### **Uncertainty of Radiated Emission Measurement (18GHz~40GHz)**

Measuring Uncertainty for a Level of Confidence	5.1dB
of 95% (U = 2Uc(y))	3. IUB

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# **Appendix A. Test Results of Conducted Test**

# Conducted Output Power(Average power)

#### For Sample 1

Conducted Power (*Unit: dBm)								
Band		GSM850		GSM1900				
Channel	128	128 189 251			661	810		
Frequency	824.2	836.4	848.8	1850.2	1880.0	1909.8		
GSM	32.01	31.94	31.95	29.42	<mark>29.48</mark>	29.32		
GPRS class 8	31.98	31.92	31.93	29.40	29.47	29.30		
GPRS class 10	31.46	31.40	31.45	28.71	28.80	28.63		

	Conducted Power (*Unit: dBm)								
Band	W	CDMA Band	٧	W	CDMA Band	II			
Channel	4132	4182	4233	9262	9400	9538			
Frequency	826.4	836.4	846.6	1852.4	1880.0	1907.6			
AMR 12.2K	22.31	22.32	22.30	22.52	22.33	22.20			
RMC 12.2K	22.32	<mark>22.34</mark>	22.30	<b>22.56</b>	22.42	22.30			
HSDPA Subtest-1	22.33	22.34	22.22	21.86	21.60	21.47			
HSDPA Subtest-2	21.30	21.32	21.27	20.85	20.56	20.46			
HSDPA Subtest-3	20.85	20.81	20.82	20.39	20.07	19.93			
HSDPA Subtest-4	20.82	20.85	20.78	20.34	20.04	19.83			
HSUPA Subtest-1	20.31	20.37	20.26	19.96	19.62	19.48			
HSUPA Subtest-2	19.33	19.41	19.35	18.96	18.61	18.47			
HSUPA Subtest-3	19.85	19.83	19.77	19.37	19.18	18.95			
HSUPA Subtest-4	20.41	20.36	20.33	19.96	19.72	19.58			
HSUPA Subtest-5	22.30	22.28	22.29	22.00	21.70	21.50			

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#### For Sample 2

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	32.00	31.92	31.94	29.28	<b>29.30</b>	29.29		
GPRS class 8	31.97	31.90	31.92	29.26	29.28	29.27		
GPRS class 10	31.20	31.42	31.44	28.53	28.57	28.67		

Conducted Power (*Unit: dBm)								
Band	W	CDMA Band	V	WCDMA Band II				
Channel	4132	4182	4233	9262	9400	9538		
Frequency	826.4	836.4	846.6	1852.4	1880.0	1907.6		
AMR 12.2K	22.26	22.30	22.26	22.50	22.39	22.31		
RMC 12.2K	22.28	<mark>22.33</mark>	22.29	<mark>22.54</mark>	22.41	22.30		
HSDPA Subtest-1	22.26	22.28	22.23	21.84	21.62	21.42		
HSDPA Subtest-2	21.33	21.30	21.21	20.83	20.56	20.46		
HSDPA Subtest-3	20.83	20.80	20.71	20.33	20.02	20.02		
HSDPA Subtest-4	20.80	20.78	20.75	20.29	20.05	20.00		
HSUPA Subtest-1	20.33	20.31	20.21	20.03	19.68	19.47		
HSUPA Subtest-2	19.39	19.23	19.22	19.06	18.57	18.47		
HSUPA Subtest-3	19.87	19.84	19.75	19.35	19.12	19.02		
HSUPA Subtest-4	20.30	20.28	20.18	20.02	19.68	19.46		
HSUPA Subtest-5	22.30	22.30	22.30	21.98	21.68	21.47		

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#### For Sample 3

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	31.90	31.86	<mark>31.93</mark>	29.26	29.21	<mark>29.28</mark>		
GPRS class 8	31.88	31.84	31.91	29.24	29.19	29.27		
GPRS class 10	31.39	31.35	31.45	28.51	28.60	28.69		

Conducted Power (*Unit: dBm)								
Band	W	CDMA Band	V	W	CDMA Band	II		
Channel	4132	4182	4233	9262	9400	9538		
Frequency	826.4	836.4	846.6	1852.4	1880.0	1907.6		
AMR 12.2K	<mark>22.36</mark>	22.34	22.31	<mark>22.45</mark>	22.31	22.20		
RMC 12.2K	22.35	22.33	22.30	22.43	22.29	22.19		
HSDPA Subtest-1	21.90	21.93	21.92	21.86	21.60	21.52		
HSDPA Subtest-2	20.90	20.97	20.95	20.82	20.58	20.48		
HSDPA Subtest-3	20.41	20.45	20.39	20.38	20.08	19.99		
HSDPA Subtest-4	20.45	20.41	20.32	20.33	20.12	19.88		
HSUPA Subtest-1	19.88	19.62	19.55	19.99	19.98	20.02		
HSUPA Subtest-2	19.01	18.62	18.65	18.93	19.03	18.91		
HSUPA Subtest-3	19.39	19.16	19.07	19.42	19.50	19.37		
HSUPA Subtest-4	19.91	19.70	19.62	20.01	19.94	19.80		
HSUPA Subtest-5	22.00	21.70	21.60	22.00	22.00	22.00		

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# **Appendix B. Test Results of Radiated Test**



#### For Sample 1

Channel	Channel Mode		ontal	Vertical		
Chamilei	Wode	ERP(dBm)	ERP(W)	ERP(dBm)	ERP(W)	
Lowest	COMOSO	28.96	0.7878	26.96	0.4970	
Middle	GSM850 GSM	28.35	0.6835	28.47	0.7027	
Highest	GSIVI	29.67	0.9276	29.70	0.9340	
Lowest	MCDMA Bond V	19.52	0.0896	14.45	0.0279	
Middle	WCDMA Band V RMC 12.2Kbps	19.33	0.0857	15.93	0.0392	
Highest	RIVIC 12.2NDps	19.51	0.0894	17.14	0.0518	
Limit	ERP < 7W	Result		PASS		

Channel Mode		Horiz	ontal	Vertical		
Channel	Wode	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)	
Lowest	GSM1900	27.70	0.5883	28.35	0.6833	
Middle	GSM T900	28.80	0.7591	28.88	0.7733	
Highest	GSIVI	29.11	0.8139	28.81	0.7595	
Lowest	WCDMA Band II	22.29	0.1693	23.27	0.2122	
Middle	RMC 12.2Kbps	21.77	0.1504	22.93	0.1965	
Highest	RIVIC 12.2NDps	20.86	0.1220	21.84	0.1529	
Limit	EIRP < 2W	Result		PASS		

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#### For Sample 2

Channel Made		Horiz	ontal	Vertical		
Channel Mode	Mode	ERP(dBm)	ERP(W)	ERP(dBm)	ERP(W)	
Lowest	CCMOTO	30.55	1.1360	26.11	0.4087	
Middle	GSM850	31.03	1.2670	28.32	0.6788	
Highest	GSM	32.11	1.6269	29.58	0.9086	
Limit	ERP < 7W	Result		PA	SS	

Channel	Channel Made		ontal	Vertical		
Channel Mode	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)		
Lowest	00144000	26.13	0.4098	23.02	0.2003	
Middle	GSM1900	25.93	0.3920	22.48	0.1771	
Highest	GSM	25.34	0.3416	22.23	0.1669	
Limit	EIRP < 2W	Result		PA	SS	

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#### For Sample 3

Channel	Mode	Horiz	ontal	Vertical		
		ERP(dBm)	ERP(W)	ERP(dBm)	ERP(W)	
Lowest	GSM850	31.31	1.3533	26.08	0.4059	
Middle		31.24	1.3297	25.66	0.3679	
Highest	- GSM	32.45	1.7594	26.20	0.4172	
Limit	ERP < 7W	Re	sult	PASS		

Channel	Mode	Horiz	ontal	Vertical		
		EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)	
Lowest	- GSM1900 - GSM	28.46	0.7008	27.40	0.5491	
Middle		28.81	0.7609	25.68	0.3701	
Highest		28.15	0.6525	23.89	0.2447	
Limit	EIRP < 2W	Re	sult	PASS		

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# **Radiated Spurious Emission**

GSM850 (GSM)									
Channel	Frequency ( MHz )	ERP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1648.4	-56.65	-13	-43.65	-59.48	-63.34	0.56	9.40	Н
	2472.6	-59.07	-13	-46.07	-64.81	-66.78	0.74	10.60	Н
	3296.8	-57.10	-13	-44.10	-65.91	-66.70	0.85	12.60	Н
	1648.4	-59.32	-13	-46.32	-60.98	-66.01	0.56	9.40	V
	2472.6	-56.37	-13	-43.37	-61.95	-64.08	0.74	10.60	V
	3296.8	-58.64	-13	-45.64	-66.78	-68.24	0.85	12.60	V

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

GSM1900 (GSM)									
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
	3700.4	-44.14	-13	-31.14	-57.69	-50.18	6.56	12.60	Н
Lowest	5550.6	-38.81	-13	-25.81	-55.56	-43.91	8	13.10	Н
	7400.8	-47.10	-13	-34.10	-65.84	-48.83	9.57	11.30	Н
	9251	-42.27	-13	-29.27	-66.66	-43.72	10.45	11.90	Н
	11101.2	-39.21	-13	-26.21	-62.86	-40.42	11.99	13.20	Н
	3700.4	-38.74	-13	-25.74	-53.34	-44.78	6.56	12.6	V
	5550.6	-39.33	-13	-26.33	-56.87	-44.43	8	13.1	V
	7400.8	-48.69	-13	-35.69	-67.09	-50.42	9.57	11.3	V
	9251	-43.66	-13	-30.66	-67.43	-45.11	10.45	11.9	V
	11101.2	-41.29	-13	-28.29	-65.23	-42.50	11.99	13.2	V

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

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# Appendix D. Photographs of EUT

Please refer to Sporton report number EP312203-05 which is issued separately.

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# **Appendix E. Product Equality Declaration**

SPORTON INTERNATIONAL (SHENZHEN) INC.

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# CK TELECOM LTD.

Technology Road.High-Tech Development Zone. Heyuan, Guangdong,P.R.China. Tel: +86-755-26739100; Fax: +86-755-26739500

Date: November 3, 2016

# **Product Equality Declaration**

We, CK TELECOM LTD., declare on our sole responsibility for the product of Doro PhoneEasy 626 HC 1031 as below:

- 1. Add two USB cable "HYD-CK-0851" and "HT-SJX-16042501"
- 2. Add adapter"A8-501000"
- 3. Change Speaker, USB connector, Speaker audio PA IC
- 4. Change the MIC to: SOM4013SL-G422-RC-HF
- **5.** Change the SIM connector to: SM012-15112A6C
- **6.** Change the CAMERA to: VFGC0982-A1
- 7. Change the LCD to: QFG12832-111-PFDNN-R/ SBT240-040
- **8.** Change SW from SHUTTLE-S13A\_DORO626\_L3EN\_111\_140224 to SHUTTLE-S13A\_DORO626\_L3EN\_307\_160913

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

**Applicant:** CK TELECOM LTD.

**Tel:** +86-755-26739100 Fax: +86-755-26739500

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