

# Variant FCC RF Test Report

APPLICANT : Doro AB  
EQUIPMENT : GSM/WCDMA/LTE Mobile Telephone  
BRAND NAME : doro  
MODEL NAME : DSB-0020  
FCC ID : WS5DORO824U  
STANDARD : FCC 47 CFR Part 2, 22(H), 24(E), 27(L)  
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 Jan. 29, 2016. We, SPORTON INTERNATIONAL (KUNSHAN) 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 (KUNSHAN) INC., the test report shall not be reproduced except in full.



Prepared by: James Huang / Manager



Approved by: Jones Tsai / Manager



**SPORTON INTERNATIONAL (KUNSHAN) INC.**  
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## REVISION HISTORY

| REPORT NO.   | VERSION | DESCRIPTION                                                                                                                                                                                                                                     | ISSUED DATE   |
|--------------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| FG533002-12A | Rev. 01 | This is a variant report for DSB-0020. The product equality declaration could be referred to Appendix B. Since the test result is not affected, all the test cases were performed on original test report (Sporton Report Number FG533002-11A). | Mar. 15, 2016 |
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|              |         |                                                                                                                                                                                                                                                 |               |



# 1 General Description

## 1.1 Applicant

**Doro AB**

Magistratsvägen 10 SE-226 43 Lund Sweden

## 1.2 Manufacturer

**BYD PRECISION MFR CO., LTD**

No. 3001, Baohe Road, Baolong Industrial, Longgang, Shenzhen, 518116, P. R. China

## 1.3 Product Feature of Equipment Under Test

| Product Feature                        |                                                                                                                                                            |
|----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Equipment</b>                       | GSM/WCDMA/LTE Mobile Telephone                                                                                                                             |
| <b>Brand Name</b>                      | doro                                                                                                                                                       |
| <b>Model Name</b>                      | DSB-0020                                                                                                                                                   |
| <b>FCC ID</b>                          | WS5DORO824U                                                                                                                                                |
| <b>EUT supports Radios application</b> | GSM/GPRS/EGPRS/WCDMA/HSPA/<br>DC-HSDPA/HSPA+16QAM uplink is not supported)/LTE/<br>WLAN 2.4GHz 802.11b/g/n HT20/<br>Bluetooth v3.0 + EDR/Bluetooth v4.1 LE |
| <b>HW Version</b>                      | Doro_DVT2_2121                                                                                                                                             |
| <b>SW Version</b>                      | DSB0020_CA_GRA_01.01.00_USER_20160219                                                                                                                      |
| <b>EUT Stage</b>                       | 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.

## 1.4 Product Specification subjective to this standard

| Product Specification subjective to this standard |                                                                                                                                                                                               |
|---------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Tx Frequency</b>                               | GSM850: 824.2 MHz ~ 848.8 MHz<br>GSM1900: 1850.2 MHz ~ 1909.8MHz<br>WCDMA Band V: 826.4 MHz ~ 846.6 MHz<br>WCDMA Band IV : 1712.4 MHz ~ 1752.6 MHz<br>WCDMA Band II: 1852.4 MHz ~ 1907.6 MHz  |
| <b>Rx Frequency</b>                               | GSM850: 869.2 MHz ~ 893.8 MHz<br>GSM1900: 1930.2 MHz ~ 1989.8 MHz<br>WCDMA Band V: 871.4 MHz ~ 891.6 MHz<br>WCDMA Band IV : 2112.4 MHz ~ 2152.6 MHz<br>WCDMA Band II: 1932.4 MHz ~ 1987.6 MHz |
| <b>Antenna Type</b>                               | PIFA Antenna                                                                                                                                                                                  |
| <b>Type of Modulation</b>                         | GSM: GMSK<br>GPRS: GMSK<br>EDGE: GMSK / 8PSK<br>WCDMA : QPSK (Uplink)<br>HSDPA/DC-HSDPA : QPSK (Uplink)<br>HSUPA : QPSK (Uplink)<br>HSPA+ : 16QAM uplink is not supported<br>DC-HSDPA : 64QAM |

## 1.5 Modification of EUT

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



## **Appendix A. Photographs of EUT**

Please refer to Sporton report number EP533002-12 which is issued separately.



## **Appendix B. Product Equality Declaration**

**BYD PRECISION MFR CO.,LTD**

No.3001, Baohe Road, Baolong Industrial, Longgang, Shenzhen, 518116, P. R. China  
Tel: 86 010 58018888; Fax: 86 010 58018888 73000

**Date: March 15, 2016**

## **Product Equality Declaration**

(Declaration of equality of a product variant with a previously assessed original product. To be signed in the name of the company that is responsible for the product variant)

We, BYD, declare on our sole responsibility for that the product -- *Model Name: DSB-0020 (FCC ID: WS5DORO824U)* is in all relevant parts identical to the product-- *Model Name: Doro 824 (FCC ID: WS5DORO824U)*, except for the differences listed below:

1. SW Version differences:

Doro824: 824A\_US\_CC\_00.50.00\_USER\_160113

DSB-0020: DSB0020\_CA\_GRA\_01.01.00\_USER\_20160219

2. IMEI label differences:

- 1) Different model name
- 2) Different IMEI TAC code
- 3) DSB-0020 add cUL logo and number
- 4) DSB-0020 add Wi-Fi MAC address
- 5) DSB-0020 add Bluetooth MAC.

3. Battery Cover differences:

Doro 824 has "Consumer Cellular" on the battery cover, DSB-0020 removed it.

Sincerely yours,



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