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Report No.: SHEM120900140305
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FCC SAR Evaluation Report

Application No. : SHEM1209001403RF
Applicant: MobiWire SAS
FCC ID: QPN-MOBIPRINT2

Equipment Under Test (EUT):

NOTE: The following sample(s) submitted was/were identified on behalf of the client as

Product Name: MobiWire Mobiprinter
Brand Name: MobiWire
Model: MobiPrint²
Standards: FCC CFR Title 47 Part 1.1307
FCC CFR Title 47 Part 2.1093
KDB447498D01
Date of Receipt: Sep. 25, 2012
Date of Test: Sep. 26, 2012 to Oct. 15, 2012
Date of Issue: Oct. 21, 2012

| | |
|----------------------|--------------|
| Test Result : | PASS* |
|----------------------|--------------|

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

E&E Section Head
SGS-CSTC(Shanghai) Co., Ltd.

E&E EMC Engineer
SGS-CSTC(Shanghai) Co., Ltd.

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3 General Information

3.1 Client Information

| | |
|--------------------------|---|
| Applicant: | MobiWire SAS |
| Address of Applicant: | 79 avenue Francois Arago, 92000 NANTERRE France |
| Manufacturer: | MOBIWIRE MOBILES (NINGBO) Co., Ltd |
| Address of Manufacturer: | No.999, Dacheng East Road, Fenghua City, Zhejiang |
| Factory: | MobiWire SAS |

3.2 General Description of EUT (Equipment Under Test)

| | |
|-----------------------------------|--|
| Product Name | MobiWire Mobiprinter |
| Brand Name: | MobiWire |
| Model No: | MobiPrint ² |
| Antenna Type | Interior antenna |
| Supported Frequency Bands: | GSM850: 824.2MHz ~ 848.8MHz GSM1900: 1850.2MHz ~ 1909.8MHz WiFi: 2412MHz ~ 2462MHz Bluetooth: 2402MHz ~ 2480MHz |
| Test Frequency Bands: | 2.402GHz to 2.480GHz |

3.3 Details of E.U.T.

Technical Specifications:

| | |
|--------------------------------|---|
| Hardware Version: | V03 |
| Software Version: | V00-M121106-MP2-MP |
| Bluetooth support: | V 2.1 (EDR) |
| WiFi support: | 802.11 b/g |
| AC Adaptor : | Mode: S024WM1200200 Input: 100~240V~50/60Hz 600Ma Output: 12V DC 2000mA |
| Battery: | 1800mAh 13.2W/h |
| Bluetooth Antenna Gain: | -3.0 dBi |



3.4 Test Location

All tests were performed at SGS E&E EMC lab

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.
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3.5 Test Facility

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

- **CNAS (No. CNAS L0599)**

CNAS has accredited SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing. Date of expiry: 2014-07-26.

- **FCC – Registration No.: 402683**

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered and fully described in a report filed with the Federal Communications Commission (FCC). The acceptance letter from the FCC is maintained in our files. Registration No.: 402683, Expiry Date: 2015-02-22.

- **Industry Canada (IC) – IC Assigned Code: 8617A**

The 3m Semi-anechoic chamber of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 8617A. Expiry Date: 2014-09-20.

- **VCCI (Member No.: 3061)**

The 3m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-3868 and C-4336 respectively. Date of Registration: 2012-05-29. Date of Expiry: 2015-05-28.

4 SAR Evaluation

4.1 RF Exposure Compliance Requirement

4.1.1 Standard Requirement

15.247(b)(4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

4.1.2 Limits

According to KDB447498 D01, SAR evaluation is typically not required when the maximum transmitter and antenna output power are $\leq 60/f(\text{GHz})$ mW.

4.1.3 EUT RF Exposure

| Test Channel | Modulation | Fundamental Frequency (MHz) | Reading Power (dBm) | Cable Loss (dB) | Output Power | |
|--------------|------------|-----------------------------|---------------------|-----------------|--------------|------|
| | | | | | (dBm) | (mW) |
| Lowest | GFSK | 2402 | 6.33 | 0.5 | 6.83 | 4.82 |
| Middle | GFSK | 2441 | 6.47 | 0.5 | 6.97 | 4.98 |
| Highest | GFSK | 2480 | 6.53 | 0.5 | 7.03 | 5.05 |

The Max Conducted Peak Output Power is 7.03dBm(5.05mW) in the highest channel;

The best case gain of the antenna is -3.0dBi.

-3.0dBi logarithmic terms convert to numeric result is nearly 0.501.

According to the formula, calculate the EIRP test result:

$$\text{EIRP} = P \times G = 7.03\text{mW} \times 0.501 = 3.522\text{mW} \text{ ①}$$

SAR requirement:

$$S = 60 / f(\text{GHz}) = 60 / 2.480 = 24.19\text{mW} \text{ ②} ;$$

$$\text{①} < \text{②}.$$

So the SAR report is not required.

THE END OF REPORT