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RF EXPOSURE REPORT

REPORT NO.: SA120103E05

MODEL NO.: Z-RS-DC001

FCC ID: ZKP-RDC001

RECEIVED: Jan. 03, 2012

TESTED: Feb. 20, 2012

ISSUED: Mar. 20, 2012

APPLICANT: ZOLL Medical Corporation.

ADDRESS: 269 Mill Road. Chelmsford, MA 01824.

ISSUED BY: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch Hsin Chu Laboratory

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TABLE OF CONTENTS

| | |
|--|---|
| RELEASE CONTROL RECORD | 3 |
| 1. CERTIFICATION | 4 |
| 2. RF EXPOSURE LIMIT | 5 |
| 3. MPE CALCULATION FORMULA | 5 |
| 4. CLASSIFICATION | 5 |
| 5. ANTENNA GAIN | 5 |
| 7. CALCULATION RESULT OF MAXIMUM CONDUCTED POWER | 6 |



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RELEASE CONTROL RECORD

| ISSUE NO. | REASON FOR CHANGE | DATE ISSUED |
|-------------|-------------------|---------------|
| SA120103E05 | Original release | Mar. 20, 2012 |



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1. CERTIFICATION

PRODUCT: 802.11 a/b/g/n embedded TCP/IP stack Wifi CF card with DFS

BRAND NAME: ZOLL

MODEL NO.: Z-RS-DC001

TEST SAMPLE: ENGINEERING SAMPLE

APPLICANT: ZOLL Medical Corporation.

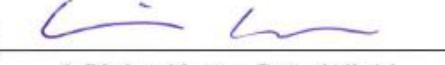
TESTED DATE: Feb. 20, 2012

STANDARDS: FCC Part 2 (Section 2.1091)

FCC OET Bulletin 65, Supplement C (01-01)

IEEE C95.1

The above equipment (Model: Z-RS-DC001) has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

PREPARED BY :  , **DATE:** Mar. 20, 2012
(Claire Kuan, Specialist)

APPROVED BY :  , **DATE:** Mar. 20, 2012
(May Chen, Deputy Manager)



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2. RF EXPOSURE LIMIT

LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

| FREQUENCY RANGE (MHz) | ELECTRIC FIELD STRENGTH (V/m) | MAGNETIC FIELD STRENGTH (A/m) | POWER DENSITY (mW/cm ²) | AVERAGE TIME (minutes) |
|---|-------------------------------|-------------------------------|-------------------------------------|------------------------|
| LIMITS FOR GENERAL POPULATION / UNCONTROLLED EXPOSURE | | | | |
| 300-1500 | ... | ... | F/1500 | 30 |
| 1500-100,000 | ... | ... | 1.0 | 30 |

F = Frequency in MHz

3. MPE CALCULATION FORMULA

$$P_d = (P_{out} \cdot G) / (4 \cdot \pi \cdot r^2)$$

where

P_d = power density in mW/cm²

P_{out} = output power to antenna in mW

G = gain of antenna in linear scale

Pi = 3.1416

R = distance between observation point and center of the radiator in cm

4. CLASSIFICATION

The antenna of this product, under normal use condition, is at least 20cm away from the body of the user. So, this device is classified as **Mobile Device**.

5. ANTENNA GAIN

The antenna provided to the EUT, please refer to the following table:

| Antenna Type | Gain (dBi) | Connector Type | Frequency range |
|--------------|------------|----------------|-----------------|
| PCB printed | 1.30 | NA | 2.4GHz |
| | 1.97 | | 5GHz |



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6. CALCULATION RESULT OF MAXIMUM CONDUCTED POWER

For 15.247(2.4GHz):

| FREQUENCY BAND (MHz) | MAX POWER (mW) | ANTENNA GAIN (dBi) | DISTANCE (cm) | POWER DENSITY (mW/ cm ²) | LIMIT (mW/cm ²) |
|----------------------|----------------|--------------------|---------------|--------------------------------------|-----------------------------|
| 2412-2462 | 69.2 | 1.30 | 20 | 0.019 | 1.00 |

For 15.247(5GHz):

| FREQUENCY BAND (MHz) | MAX POWER (mW) | ANTENNA GAIN (dBi) | DISTANCE (cm) | POWER DENSITY (mW/ cm ²) | LIMIT (mW/cm ²) |
|----------------------|----------------|--------------------|---------------|--------------------------------------|-----------------------------|
| 5745 ~ 5825 | 27.5 | 1.97 | 20 | 0.009 | 1.00 |

For 15.407(5GHz):

| FREQUENCY BAND (MHz) | MAX POWER (mW) | ANTENNA GAIN (dBi) | DISTANCE (cm) | POWER DENSITY (mW/ cm ²) | LIMIT (mW/cm ²) |
|----------------------|----------------|--------------------|---------------|--------------------------------------|-----------------------------|
| 5180 ~ 5700 | 43.7 | 1.97 | 20 | 0.014 | 1.00 |

--- END ---