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# RF EXPOSURE REPORT

**REPORT NO.:** SA140401C04A

**MODEL NO.:** DWBT013

**FCC ID:** PZWDWBT013

**RECEIVED:** Apr. 07, 2014

**TESTED:** Apr. 09 ~ Apr. 12, 2014

**ISSUED:** Apr. 18, 2014

**APPLICANT:** DENSO WAVE INCORPORATED

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**ISSUED BY:** Bureau Veritas Consumer Products Services  
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A D T

## Table of Contents

RELEASE CONTROL RECORD.....	3
1. CERTIFICATION.....	4
2. EVALUATION RESULT.....	5
3. SAR TEST EXCLUSION THRESHOLDS.....	6
4. CONCLUSION.....	6



A D T

## RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
SA140401C04A	Original release.	Apr. 18, 2014



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## 1. CERTIFICATION

**PRODUCT:** Bluetooth Adapter

**MODEL NO.:** DWBT013

**BRAND:** DENSO

**APPLICANT:** DENSO WAVE INCORPORATED

**TESTED:** Apr. 09 ~ Apr. 12, 2014

**TEST SAMPLE:** ENGINEERING SAMPLE

**STANDARDS:** FCC Part 2 (Section 2.1093)

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

IEEE C95.1

The above equipment (model: DWBT013) 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 :** Jemma Yang , DATE : Apr. 18, 2014  
Jemma Yang / Specialist

**APPROVED BY :** Ken Liu , DATE : Apr. 18, 2014  
Ken Liu / Senior Manager



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## 2. EVALUATION RESULT

### Following FCC KDB 447498 D01 “General SAR test exclusion guidance”

The corresponding SAR Exclusion Threshold condition, listed below:

- 1) The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances  $\leq$  50 mm are determined by:  
$$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR, 16}$$
 where
  - $f(\text{GHz})$  is the RF channel transmit frequency in GHz.
  - Power and distance are rounded to the nearest mW and mm before calculation.
  - The result is rounded to one decimal place for comparison. The test exclusions are applicable only when the minimum test separation distance is  $\leq$  50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is  $<$  5 mm, a distance of 5 mm is applied to determine SAR test exclusion.
- 2) At 100 MHz to 6 GHz and for test separation distances  $>$  50 mm, the SAR test exclusion threshold is determined according to the following:
  - a) [Threshold at 50 mm in step 1) + (test separation distance - 50mm) · (  $f(\text{MHz})/150$  )] mW, at 100MHz to 1500 MHz
  - b) [Threshold at 50 mm in step 1) + (test separation distance - 50 mm) · 10] mW at  $>$  1500 MHz and  $\leq$  6 GHz
- 3) At frequencies below 100 MHz, the following may be considered for SAR test exclusion.
  - a) The threshold at the corresponding test separation distance at 100 MHz in step 2) is multiplied by  $[1 + \log(100/f(\text{MHz}))]$  for test separation distances  $>$  50 mm and  $<$  200 mm.
  - b) The threshold determined by the equation in a) for 50 mm and 100 MHz is multiplied by  $\frac{1}{2}$  for test separation distances  $\leq$  50 mm.
  - c) SAR measurement procedures are not established below 100 MHz. When SAR test exclusion cannot be applied, a KDB inquiry is required to determine SAR evaluation requirements for any test results to be acceptable.



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### 3. SAR TEST EXCLUSION THRESHOLDS

Maximum measured transmitter power:

Frequency (GHz)	Max. Power (mW)	Min. test separation distance (mm)	SAR test exclusion calculation value <sup>(NOTE 2)</sup>	1-g SAR test exclusion thresholds	Result
2.402 ~ 2.480	1.521	5	0.471	3	Pass

**NOTE:** 1. The antenna type is PCB antenna (PIFA) with 1.7dBi gain.

2. Calculate SAR test exclusion thresholds from condition “1” formulas.

### 4. CONCLUSION

Since Source-base time average power is below SAR test exclusion power thresholds, the SAR evaluation is not required.