

RF Exposure Report

Report No.: SA180426C23

FCC ID: VIYHRM1085

Test Model: HRM1085

Received Date: Apr. 26, 2018

Test Date: May 03 ~ May 09, 2018

Issued Date: May 15, 2018

Applicant: Hosiden Corporation

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Release Control Record

| Issue No. | Description | Date Issued |
|-------------|------------------|--------------|
| SA180426C23 | Original release | May 15, 2018 |

1 Certificate of Conformity

Product: Bluetooth Module

Test Model: Hosiden

Sample Status: Engineering sample

Applicant: Hosiden Corporation

Test Date: May 03 ~ May 09, 2018

Standards: FCC Part 2 (Section 2.1091)

KDB 447498 D01 General RF Exposure Guidance v06

IEEE C95.1

The above equipment 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 RF characteristics under the conditions specified in this report.

Prepared by : Suntee Liu, **Date:** May 15, 2018

Suntee Liu / Specialist

Approved by : Bruce Chen, **Date:** May 15, 2018

Bruce Chen / Project Engineer

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 ≤ 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 ≤ 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) $[\text{Threshold at } 50 \text{ mm in step 1)} + (\text{test separation distance} - 50\text{mm}) \cdot (f(\text{MHz})/150)] \text{ mW}$, at 100MHz to 1500 MHz
 - b) $[\text{Threshold at } 50 \text{ mm in step 1)} + (\text{test separation distance} - 50 \text{ mm}) \cdot 10] \text{ mW}$ at $> 1500 \text{ MHz and } \leq 6 \text{ GHz}$
- 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 ≤ 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.

3 SAR Test Exclusion Thresholds

Maximum measured transmitter power:

| Max. Power (mW) | Min. test separation distance (mm) | SAR test exclusion calculation value ^(NOTE 2) | 10-g extremity SAR test exclusion thresholds | Result |
|-----------------|------------------------------------|--|--|--------|
| 1.413 | 5 | 0.438 | 7.5 | Pass |

Note: 1. The antenna type is PCB antenna with 1.6dBi 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.

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