

RF Exposure Report

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FCC ID: RYYEYSGCN

Test Model: EYSGCN

Received Date: Jul. 07, 2015

Test Date: Jul. 13 ~ Jul. 14, 2015

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Report No.: SA150707C17 Page No. 1 / 6 Report Format Version: 6.1.1



Table of Contents

Relea	Release Control Record			
1	Certificate of Conformity	4		
2	Evaluation Result	5		
3	SAR Test Exclusion Thresholds	6		
4	Conclusion	6		



Release Control Record

Issue No.	Description	Date Issued
SA150707C17	Original release	Jul. 22, 2015



1 Certificate of Conformity

Product: Wireless Module

Brand: TAIYO YUDEN

Test Model: EYSGCN

Sample Status: Engineering sample

Applicant: TAIYO YUDEN CO., LTD.

Test Date: Jul. 13 ~ Jul. 14, 2015

Standards: FCC Part 2 (Section 2.1091)

KDB 447498 D03

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 EMC characteristics under the conditions specified in this report.

Suntee Liu / Specialist

Approved by: Jul. 22, 2015

Ken Liu / Senior Manager



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:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] $\cdot [\sqrt{f(GHz)}] \le 3.0$ for 1-q SAR and ≤ 7.5 for 10-g extremity SAR,16 where

- > f(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) [Threshold at 50 mm in step 1) + (test separation distance 50mm)·(f(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 ≤ 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(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.



SAR Test Exclusion Thresholds

Maximum measured transmitter power:

Max. Power (mW)	Min. test separation distance (mm)	SAR test exclusion calculation value (NOTE 2)	1-g baby SAR test exclusion thresholds	Result
2.239	5	0.694	3	Pass

NOTE: 1. The antenna type is Chip antenna with 0.9dBi gain.
2. Calculate SAR test exclusion thresholds from condition "1" formulas.

Conclusion

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

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