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Release Control Record				
Issue No.	Description	Date Issued		
SA150707C22	Original release	Jul. 31, 2015		



1 Certificate of Conformity

Product:	Wireless Module	
Brand:	TAIYO YUDEN	
Test Model:	EYAGJN	
Sample Status:	Engineering sample	
Applicant:	TAIYO YUDEN CO., LTD.	
Test Date:	Jul. 13 ~ Jul. 30, 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.

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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 ≤ 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] $\cdot [\sqrt{f(GHz)}]$

- \leq 3.0 for 1-g SAR and \leq 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.
- 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 ½ 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:

EUT function	Max. Power (mW)	Min. test separation distance (mm)	SAR test exclusion calculation value ^(NOTE 2)	1-g baby SAR test exclusion thresholds	Result
Bluetooth LE	3.350	5	1.038	3	Pass
ANT ⁺	3.690	5	1.143	3	Pass

NOTE: 1. The antenna type is PCB antenna with -1.5dBi gain.

2. Calculate SAR test exclusion thresholds from condition "1" formulas.

Fragueney Band	Max Power (dBm)		Total Power	Power Limit
Frequency Band	BT LE	ANT ⁺	(dBm)	(dBm)
2.4GHz	5.25	5.67	8.48	30

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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