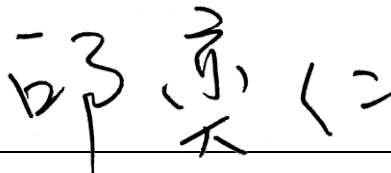


MPE REPORT

案 號： 1902C106
產 品 名 稱： WIFI+BT Module
型 號： WT22M2600N
申請廠商（名稱）： 惠州高盛達科技有限公司
申請廠商（地址）： 惠州仲愷高新區華星路2號

According to : LP0002 第 5.20.2 節

報告簽署人：



發行日期： 108 年 05 月 06 日

東研信超股份有限公司

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TAF實驗室認可編號： 0659

MPE CALCULATION METHOD:

Calculation Method of RF Safety Distance:

$$S = \frac{PG}{4\pi R^2} = \frac{EIRP}{4\pi R^2}$$

where:

S = power density

P = power input to the antenna

G = power gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the center of radiation of the antenna

Table for Filed Antenna:

Ant.	Brand	Model Name	Antenna Type	Connector	Gain(dBi)
1	N/A	N/A	PCB	N/A	3.10
2	N/A	N/A	PCB	N/A	3.10

Note: This EUT supports MIMO 2X2, any transmit signals are correlated with each other, so Directional gain = $10\log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / N]$ dBi, that is Directional gain = $10\log[(10^{3.10/20} + 10^{3.10/20})^2 / 2]$ dBi = 6.11. So, the output power limit is $30 - 6.11 + 6 = 29.89$, the power spectral density limit is $8 - 6.11 + 6 = 7.89$.

Table for Antenna Configuration:

Operating Mode TX Mode	1TX	2TX
802.11b	V (Ant. 2)	-
802.11g	V (Ant. 2)	-
802.11n(20 MHz)	-	V (Ant. 1 + Ant. 2)
802.11n(40 MHz)	-	V (Ant. 1 + Ant. 2)

TEST RESULTS:

測試頻道: IEEE 802.11n(20 MHz)

測試模式: 發射

檢測器: Peak

測試日期: 108/04/25

環境溫度: 25°C

環境濕度: 64%

Directional Gain (dBi)	Directional Gain (numeric)	Max. Output Power (dBm)	Max. Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
6.11	4.0832	24.91	309.7419	0.25174	1	Complies

Note: The evaluated distance is 20cm.

結束