RF EXPOSURE EVALUATION

1. PRODUCT INFORMATION

Product Description	TABLET PC
Model Name	HM-PAN-110
FCC ID	2ARU9PAN001

2. EVALUATION METHOD

According to 447498 D01 General RF Exposure Guidance v05

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-g SAR and ≤ 7.5 for 10-g extremity SAR.

Where f(GHz) is the RF channel transmit frequency in GHz

Power and distance are rounded to the nearest mW and mm before calculation

3. CALCULATION

5G WIFI

Pt=7.14dBm=5.18mW

The value of the Maximum output power Pt is referred to the test report of the CFR47 §15.247.

The result for RF exposure evaluation SAR=(5.18mW /5mm) .[$\sqrt{5.200}$ GHz)]= 2.36<3.0 for 1-g SAR and \leq 7.5 for 10-g extremity SAR.

2.4G WIFI

 $P_{t}=9.67dBm=9.27mW$

The value of the Maximum output power P_t is referred to the test report of the CFR47 §15.247.

The result for RF exposure evaluation SAR= $(9.27\text{mW} / 5\text{mm}) . [\sqrt{2.437\text{GHz}}] = 2.89 < 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR.

BR/EDR

Pt=8.620dBm=7.28mW

The value of the Maximum output power Pt is referred to the test report of the CFR47 §15.247.

The result for RF exposure evaluation SAR=(7.28mW /5mm) .[$\sqrt{2.441}$ GHz)]= 2.27<3.0 for 1-g SAR and \leq 7.5 for 10-g extremity SAR.

BLE

Pt=4.221dBm=2.64mW

The value of the Maximum output power P_t is referred to the test report of the CFR47 $\S15.247$.

The result for RF exposure evaluation SAR=(2.64mW /5mm) .[$\sqrt{2.48}$ GHz)]= 0.83<3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR.

Note: The WIFI and BT can not transmit simultaneously.

4. CONCLUSION

The SAR evaluation is not required.