

RF Exposure Requirements

Product Description: Tablet PC

Model No.: TA10, T10, T8, TA08, A10S, P80 Pro, M89, TLC011, T8Pro, T20, X3Pro, A10H, M10, P80h, TLG0012, TLC005, TLA001, P20 4G, 98 4G, P10 Octa Core, M8, TC01, P80 S, TLB010, TD16, A10H, TLH001, TD10, M20, TLD001, TC10, TLH008, M10, T10 Pro, TLG007, TLG018

FCC ID: 2ACGT-TA10

According to the KDB 447498 D01 v06 section 4.3.1, for 100 MHz to 6 GHz and test separation distances ≤ 50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:

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

- $f(\text{GHz})$ is the RF channel transmit frequency in GHz

- Power and distance are rounded to the nearest mW and mm before calculation¹⁷

- The result is rounded to one decimal place for comparison

Calculation Result:

BT

Tx frequency range: 2402-2480MHz

Min. test separation distance: 5mm

Maximum Conducted Output Power: 9.152dBm

Tune-Up output power: 9.5dBm

RF channel transmit frequency: 2402MHz

Result: 2.8 ($9/5 \cdot 1.55$)

Limit: 3.0

Wi-Fi 2.4G

Tx frequency range: 2412-2462MHz

Min. test separation distance: 5mm

Maximum Conducted Output Power: 7.41dBm

Tune-Up output power: 8.0dBm

RF channel transmit frequency: 2412MHz

Result: 2.0 ($6.3/5 \cdot 1.55$)

Limit: 3.0

Wi-Fi 5.8G

Tx frequency range: 5745-5825MHz

Min. test separation distance: 5mm

Maximum Conducted Output Power: 5.56dBm

Tune-Up output power: 6.0dBm

RF channel transmit frequency: 5745MHz

Result: 1.9 ($4.0/5 \times 2.40$)

Limit: 3.0

BT and WiFi can't transmit at the same time. So the transmitter complies with the RF exposure requirements and the SAR is not required.