

Radio frequency radiation exposure evaluation: portable devices

RESULT :
Test Specification

Pass

FCC ID : 2A2TU-PFS1ES201
Test standard : CFR47 FCC Part 2: Section 2.1093
FCC KDB Publication 447498 D04

Calculation Method according to KDB 447498 D04

$$P_{th} \text{ (mW)} = \begin{cases} ERP_{20 \text{ cm}} (d/20 \text{ cm})^x & d \leq 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \leq 40 \text{ cm} \end{cases} \quad (\text{B. 2})$$

where

$$x = -\log_{10} \left(\frac{60}{ERP_{20 \text{ cm}} \sqrt{f}} \right)$$

and f is in GHz, d is the separation distance (cm), and ERP20cm is per Formula (B.1). The example values shown in Table B.2 are for illustration only.

FCC Measurement Record:

Test Mode	Conducted Power (dBm)	Tune up (dBm)	Max Tune up (dBm)	Max Tune up (mW)	Minimum Separation Distances (mm)	Limit (mW)
2.4GHz SRD	0.15	0±1	1	1.26	5	2.72

Hence the EUT is excluded from SAR evaluation if the distance between the antenna and the human body is equal or above one of the minimum distances depicted in the tables above, depending on the wireless protocol in use, in accordance with FCC KDB Publication 447498 D04.