Radio frequency radiation exposure evaluation: portable devices

RESULT :   **Pass**
Test Specification

Test item	:	smART Pixelator 2.0
Identification / Type No.	:	FCSPX002, SPX389-DTC, SPX389
FCC ID	:	2AMQX20226653543
Test standard	:	CFR47 FCC Part 2: Section 2.1093
		FCC KDB Publication 447498 D04

Calculation Method according to KDB 447498 D04

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

where

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

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)	ERP (dBm)	Conducted Power (mW)	Minimum Separation Distances (mm)	Limit (mW)
BLE	1.34	4.49	2.81	5	3