

RF Exposure evaluation

Product Description: PSL Activity Tracker

Model Number: QWAA0189

FCC ID: 2AD55QWAA0189

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

$$P_t = -3.04\text{dBm} = \mathbf{0.50\text{mW}}$$

The result is rounded to one decimal place for comparison

Worse case is as below: [2402MHz -**0.50mW** output power]

$$(\mathbf{0.50\text{mW}} / 5\text{mm}) \cdot [\sqrt{2.402(\text{GHz})}] = \mathbf{0.15} < 3.0 \text{ for 1 - g SAR}$$

Then SAR evaluation is not required

NOTE: For the maximum power, you can refer FCC test report.