RF Exposure evaluation

Product Description: fin-smart cycling mate

Model Number: S5

FCC ID: 2AJH7S5

According to *447498 D01 General RF Exposure Guidance v06* for 100 MHz to 6 GHz and test separation distances $\leqslant$ 50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by: the following:
[(max. power of channel, including tune-up tolerance, mW) / (min. test separation distance, mm)]
 • [$\sqrt{f_{(GHz)}}$] $\leqslant$ 3.0 for 1-g SAR and $\leqslant$ 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)

According to the follow transmitter output power（Pt）formula：

Pt=（E x d）2/（30 x gt）

Pt=transmitter output power in watts
gt=numeric gain of the transmitting antenna (unitess)
E=electric field strength in V/m
d=measurement distance in meters (m)

According to the formula described above:

Pt= -0.68 dBm = 0.8553 mW

The result is rounded to one decimal place for comparison
Worse case is as below: [2475 MHz - 0.8553 mW output power]

(0.8553 mW / 5 mm)*[$\sqrt{2.475}$ (GHz)] = 0.27 < 3.0 for 1 - g SAR

Then SAR evaluation is not required

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