RF Exposure Evaluation

FCC ID: 2ABU84300

The device is excluded from SAR evaluation and therefore deemed compliant with FCC RF exposure requirements as described below:

FCC KDB 447498 D01 v05r02

Section 4.3.1

"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:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] · [$\sqrt{f(GHz)}$] ≤ 3.0 for 1-g SAR and ≤ 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
- The result is rounded to one decimal place for comparison
- 3.0 and 7.5 are referred to as the numeric thresholds in the step 2 below

The test exclusions are applicable only when the minimum test separation distance is \leq 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is \leq 5 mm, a distance of 5 mm according to 5) in section 4.1 is applied to determine SAR test exclusion."

The device has a maximum conducted output power of 0.0234 mW at 403.65 MHz. The EUT has a maximum EIRP of 0.00021 mW. The closest spacing of the antenna to the user's extremity is less than 5mm per the description above as the product can be body-worn while transmitting.

The table below shows the results of the calculation. The value of 0.003 is well below the exclusion threshold of 3.0, therefore the unit is excluded from SAR evaluation and deemed compliant with FCC RF exposure requirements.

Output Power	Test Separation	Transmit Frequency	Exclusion Threshold	Specification
(mW)	(mm)	(GHz)		
0.0234	5	0.40365	0.003	<=3.0