

RF Exposure Requirements

Product Description: AirVisual Node

Model No.: AV-5PCA-4A

FCC ID: 2AHVMAV-5PCA-4A

According to the KDB 447498 D01 v06, for 100 MHz to 6 GHz and test separation distances ≤ 50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f_{\text{(GHz)}}}] \leq 3.0$ 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
- The result is rounded to one decimal place for comparison

The following RF exposure evaluation shall to demonstrate RF exposure compliance.

Max. output power (dBm)	Tune-Up Power (dBm)	Max. Power (mW)	Distance (mm)	Frequency (GHz)	Result	Limit
9.28	9.50	8.91	5	2.462	2.80	3

The exclusion threshold is $2.80 < 3$, therefore, the RF exposure evaluation is not required.