

## RF Exposure evaluation

FCC ID:2A3EJDEPERWIFI-01A

According to 447498 D01 General RF Exposure Guidance v06

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances  $\leq 50$  mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR, where:}$

$f(\text{GHz})$  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

Because the EUT can not work in 3 frequency same time, just can work in 1 frequency anytime, so:

2.4G wifi :

It is as below: [2437MHz, 8.42dBm (6.9502mW) output power]

$(6.9502/5) \cdot [\sqrt{2.437(\text{GHz})}] = 2.17 < 3.0 \text{ for 1-g SAR}$

5.2G wifi:

It is as below: [5180MHz, 6.72dBm (4.6989mW) output power]

$(4.6989/5) \cdot [\sqrt{5.18(\text{GHz})}] = 2.14 < 3.0 \text{ for 1-g SAR}$

5.8G wifi:

It is as below: [5775MHz, 6.45dBm (4.4157mW) output power]

$(4.4157/5) \cdot [\sqrt{5.775(\text{GHz})}] = 2.12 < 3.0 \text{ for 1-g SAR}$

Then SAR evaluation is not required.