

## RF Exposure Requirements

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Product Description: wireless mouse

Model No.: G12, M1L, M1LBS, Q5, G16, G18, M2, K6, T12, M101, V7, T18, N01, X96, T85, U03, C10, C12, C24, Q18, Q16, G5, G9, G10, G15, T8, T5, M303, T56, T302, T16, T9, U9  
FCC ID: 2A49E-G12

According to the KDB 447498 D01 v06 section 4.3.1, for 100 MHz to 6 GHz and test separation distances  $\leq 50$  mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:

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

-  $f(\text{GHz})$  is the RF channel transmit frequency in GHz

- Power and distance are rounded to the nearest mW and mm before calculation<sup>17</sup>

- The result is rounded to one decimal place for comparison

### Calculation Result:

#### For SRD:

Tx frequency range: 2408MHz-2474MHz

Min. test separation distance: 5mm

Max. Field Strength: 83.32dBuV/m @3m

$EIRP = E - 104.8 + 20 \log D = 83.32 - 104.8 + 20 \log 3 = -11.94 \text{ dBm}$

Maximum Conducted Output Power: -11.94dBm

Tune-Up output power: -11dBm

RF channel transmit frequency: 2474MHz

Result: 0.1

Limit: 3.0

The exclusion thresholds is  $0.1 < 3$

So the transmitter complies with the RF exposure requirements and the SAR is not required.