

RF Exposure Requirements

Product Description: wireless trackball mouse

Model No.: EM01, DM095, EM02, SM60, VKM42, EM03, MT50, MT50M, MT50T, MS057, GM01, DM071, DM039D, DM068, DM073, DM078, DM067, DM097D, DM050, DM100, DM099, DM101, DM102, DM103, DM112, DM115, DM116, DM118, HO08A, HO05A, DM097, DM053, DM069, DM043, 00186056, 00186052, WM90, DM430

FCC ID: 2A5DL-EM01

According to the KDB 447498 D01 v06 section 4.3.1, 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:

$$\left[\frac{\text{max. power of channel, including tune-up tolerance, mW}}{(\text{min. test separation distance, mm})^2} \cdot \sqrt{f(\text{GHz})} \right] \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR, where}$$

- $f(\text{GHz})$ 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

Calculation Result:

Tx frequency range: 2402-2480MHz

Min. test separation distance: 5mm

Maximum Conducted Output Power: -4.68dBm

Tune-Up output power: -4.0 dBm

RF channel transmit frequency: 2402MHz

Result: 0.1

Limit: 3.0

The exclusion thresholds is $0.1 < 3$

BT and 2.4GHz is the use the same antenna cannot simultaneous transmission; so the transmitter complies with the RF exposure requirements and the SAR is not required.