



Radio Frequency Exposure

EUT INFORMATION

EUT	Wireless Mouse
FCC ID	2A9L8-AXWL
Frequency band (Operating)	2.402~2.480 GHz
Antenna diversity	<input checked="" type="checkbox"/> Single antenna <input type="checkbox"/> Multiple antennas <input type="checkbox"/> Tx diversity <input type="checkbox"/> Rx diversity <input checked="" type="checkbox"/> Tx/Rx diversity
Field strength	90.18 dBuV/m @3m
Antenna gain (Max)	1.3 dBi

TEST RESULT

According to KDB 447498 D01 v06 section 4.3.1, the 1-g SAR test exclusion thresholds at test separation distance ≤ 50 mm are determined by:

The min. test separation distance (mm) is 5 mm,

$$eirp = pt * gt = (E * d)^2 / 30$$

where:

pt = transmitter output power in watts,

gt = numeric gain of the transmitting antenna (unitless),

E = electric field strength in V/m, --- $10^{((dBuV/m)/20)}/10^6$

d = measurement distance in meters (m) --- 3m

$$\text{So } pt = (E * d)^2 / (30 * gt)$$

Ant. numeric gain, Ant. = 1.3 dBi = 1.35

$$\text{So } pt = \{ [10^{(90.18/20)} / 10^6 * 3]^2 / (30 * 1.35) \} * 1000 = 0.232 \text{ mW}$$

$$\text{So } (0.232 \text{ mW} / 5 \text{ mm}) * \sqrt{2.440 \text{ GHz}} = \mathbf{0.072} < 3.0 \text{ for 1-g SAR}$$

Therefore, standalone SAR measurements are not required for both head and body.

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