Product Name：2.4GHz Wireless Gaming Mouse

Model Number: X100

FCCID: OO9X100

RADIO FRREQUENCY EXPOSURE COMPLIANCE   RESULT   :

PASS   Test standard   :   According to 447498   D01 General RF Exposure Guidance v05

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

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

$eirp = pt \times gt = (EXd)2/30$

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

So $pt = (EXd)^2/30 \times gt$

Field strength =89.21dBuV/m @3m

Ant gain =0dBi

So $pt = \{ [10^{(89.21/20)}/10^6 \quad \times 3]^2/30 \times 1 \} \times 1000$ mW =0.2501 mW

So (0.2501 mW/5mm)x $\sqrt{2.402}$ = 0.050<3

Then SAR evaluation is not required