## RF EXPOSURE EVALUATION

## 1. PRODUCT INFORMATION

Product Description	2.4G Mouse
Model Number	MW156
FCC ID	2AC9LMW156

## 2. EVALUATION METHOD

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)]  $\cdot [\sqrt{f(GHz)}] \le 3.0$  for 1-g SAR and  $\le 7.5$  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

## 3. CALCULATION

According to the follow transmitter output power (  $P_t$  ) formula :

 $P_t = (E \times d)^2 / (30 \times g_t)$ 

P<sub>t</sub>=transmitter output power in watts

g<sub>t</sub>=numeric gain of the transmitting antenna (unitess)

E=electric field strength in V/m

d=measurement distance in meters (m)

According to the report AGC01680161003FE05,  $E_{max}$ =85.35dBuV/m=0.019V/m, d=3m,g<sub>t</sub>=1 P<sub>t</sub>= ( E x d ) <sup>2</sup>/ ( 30 x g<sub>t</sub> ) =0.32mW

The result for RF exposure evaluation SAR= $(0.32 \text{mW} /5 \text{mm}) \cdot [\sqrt{2.47}(\text{GHz})] = 0.10 < 3.0 \text{ for } 1-\text{g SAR}$ 

# 4. CONCLUSION

The SAR evaluation is not required.