### RF EXPOSURE EVALUATION

### 1. PRODUCT INFORMATION

Product Description	Module
Model Name	MDL NRF24L01+ 01
FCC ID	YZHMDLNRF24L0101

### 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 (Pt) 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)

#### 2401MHz:

Pt=0.0014mW

The result for RF exposure evaluation SAR=(0.0014mW/5mm).[ $\sqrt{2.401}(\text{GHz})$ ]= 0.0004<3.0 for 1-g SAR

# 4. CONCLUSION

The SAR evaluation is not required.