



## RF exposure

According to 447498 D01 General RF Exposure Guidance v06

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

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

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

### Results

- 802.11b

Frequency (GHz)	Distance (mm)	Max tune-up power (dBm)		Calculation value	Exclusion Threshold
		(dBm)	(mW)		
2.412	5	8.0	6.3	2.0	$\leq 3.0$
2.437	5	8.0	6.3	2.0	$\leq 3.0$
2.462	5	8.0	6.3	2.0	$\leq 3.0$

- 802.11g

Frequency (GHz)	Distance (mm)	Max tune-up power (dBm)		Calculation value	Exclusion Threshold
		(dBm)	(mW)		
2.412	5	6.0	4.0	1.2	$\leq 3.0$
2.437	5	6.0	4.0	1.2	$\leq 3.0$
2.462	5	6.0	4.0	1.3	$\leq 3.0$

- 802.11n(HT20)

Frequency (GHz)	Distance (mm)	Max tune-up power (dBm)		Calculation value	Exclusion Threshold
		(dBm)	(mW)		
2.412	5	6.0	4.0	1.2	$\leq 3.0$
2.437	5	6.0	4.0	1.2	$\leq 3.0$
2.462	5	6.0	4.0	1.3	$\leq 3.0$

- 802.11n(HT40)

Frequency (GHz)	Distance (mm)	Max tune-up power (dBm)		Calculation value	Exclusion Threshold
		(dBm)	(mW)		
2.422	5	6.0	4.0	1.2	$\leq 3.0$
2.442	5	6.0	4.0	1.2	$\leq 3.0$
2.452	5	6.0	4.0	1.3	$\leq 3.0$