

**RF EXPOSURE EVALUATION METHOD****FCC ID: BOOKP-MCS808-XX****SAR Test Exclusion Thresholds for 100 MHz - 6 GHz and ≤ 50 mm**

Approximate SAR Test Exclusion Power Thresholds at Selected Frequencies and Test Separation Distances are illustrated in the following Table.

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:

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

The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.

Maximum measured transmitter power.

WIFI:

TX 802.11b Mode				
Test Channel	Frequency	Maximum Peak Conducted Output Power (PK)	Maximum Peak Conducted Output Power (AV)	Maximum Peak Conducted Output Power (AV)
	(MHz)	(dBm)	(dBm)	mW
CH01	2412	15.66	9.64	9.204
CH06	2437	15.59	9.57	9.057
CH11	2462	15.54	9.52	8.954
TX 802.11g Mode				
CH01	2412	13.64	8.51	7.096
CH06	2437	13.61	8.48	7.047
CH11	2462	13.54	8.41	6.934
TX 802.11n(20) Mode				
CH01	2412	11.72	8.49	7.063
CH06	2437	11.58	8.35	6.839
CH11	2462	11.52	8.29	6.745
TX 802.11n(40) Mode				
CH03	2422	11.81	8.39	6.902
CH06	2437	11.76	8.34	6.823
CH09	2452	11.74	8.32	6.792

Remark: The best case gain of the antenna is 1.0dBi.

1.0 dBi logarithmic terms convert to numeric result is nearly 1.26

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:

$$\frac{[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})]}{[\sqrt{f(\text{GHz})}]}$$

WIFI:

Mode	[(max. power of channel, including tune-up tolerance, mW)]	(min. test separation distance, mm)]	$[\sqrt{f(\text{GHz})}]$	Result	Limit
802.11b					
CH01	9.204	5	2.412	2.86	3
CH06	9.057	5	2.437	2.83	3
CH11	8.954	5	2.462	2.81	3
802.11g					
CH01	7.096	5	2.412	2.20	3
CH06	7.047	5	2.437	2.20	3
CH11	6.934	5	2.462	2.18	3
802.11n(20)					
CH01	7.063	5	2.412	2.19	3
CH06	6.839	5	2.437	2.14	3
CH11	6.745	5	2.462	2.12	3
802.11n(40)					
CH03	6.902	5	2.422	2.15	3
CH06	6.823	5	2.437	2.13	3
CH09	6.792	5	2.452	2.13	3

The test Result is less than 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR.

Conclusion: No SAR is required.