

RF EXPOSURE EVALUATION METHOD**FCC ID: 2ACMB-LEARNIT****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:

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

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 Conducted Output Power(PK)	Maximum Conducted Output Power(AV)	Maximum Conducted Output Power(AV)
	(MHz)	(dBm)	(dBm)	(mW)
CH01	2412	12.45	9.52	8.954
CH06	2437	12.38	9.68	9.290
CH11	2462	12.34	9.34	8.590
TX 802.11g Mode				
CH01	2412	11.37	8.74	7.482
CH06	2437	11.28	8.66	7.345
CH11	2462	11.54	8.53	7.129
TX 802.11n-HT20 Mode				
CH01	2412	10.65	8.68	7.379
CH06	2437	10.56	8.73	7.464
CH11	2462	10.74	8.46	7.015

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:

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

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	8.954	5	2.412	2.78	3
CH06	9.290	5	2.437	2.90	3
CH11	8.590	5	2.462	2.70	3
802.11g					
CH01	7.482	5	2.412	2.32	3
CH06	7.345	5	2.437	2.29	3
CH11	7.129	5	2.462	2.24	3
802.11n(20)					
CH01	7.379	5	2.412	2.29	3
CH06	7.464	5	2.437	2.33	3
CH11	7.015	5	2.462	2.20	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.