

RF EXPOSURE EVALUATION METHOD

FCC ID: YVV-AEECAMERA01

SAR Test Exclusion Thresholds for 100 MHz - 6 GHz and \leq 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:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] • [$\sqrt{f(GHz)}$] \leq 3.0 for 1-g SAR and \leq 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. 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 Channe	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	12.27	9.52	8.954						
CH06	2437	12.66	9.45	8.810						
CH11	2462	12.35	9.54	8.995						
TX 802.11g Mode										
CH01	2412	11.56	8.44	6.982						
CH06	2437	11.96	8.56	7.178						
CH11	2462	11.77	8.73	7.464						
TX 802.11n(20) Mode										
CH01	2412	11.56	8.64	7.311						
CH06	2437	11.85	8.65	7.328						
CH11	2462	11.53	8.45	6.998						

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:

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

WIFI:

Test Channel	Range	tune up max power (dBm)	[(max. power of channel, including tune-up tolerance, mW)	(min. test separation distance,mm)]	[f(GHz)]	Result	Limit			
TX 802.11b Mode										
CH01	7.6~9.6	9.6	9.120	5	2.412	2.83	3			
CH06	7.6~9.6	9.6	9.120	5	2.437	2.85	3			
CH11	7.6~9.6	9.6	9.120	5	2.462	2.86	3			
TX 802.11g Mode										
CH01	7.0~9.0	9.0	7.943	5	2.412	2.47	3			
CH06	7.0~9.0	9.0	7.943	5	2.437	2.48	3			
CH11	7.0~9.0	9.0	7.943	5	2.462	2.49	3			
TX 802.11n-HT20 Mode										
CH01	7.0~9.0	9.0	7.943	5	2.412	2.47	3			
CH06	7.0~9.0	9.0	7.943	5	2.437	2.48	3			
CH11	7.0~9.0	9.0	7.943	5	2.462	2.49	3			

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

Conclusion: No SAR is required.