FCC ID: YVV-AEEMD10

RF EXPOSURE EVALUATION METHOD

FCC ID: YVV-AEEMD10

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 Conducted Output Power(PK)	Maximum Conducted Output Power(AV)	Maximum Peak Conducted Output Power (AV)				
	(MHz)	(dBm)	(dBm)	mW				
CH01	2412	14.35	9.71	9.354				
CH06	2437	14.12	9.78	9.506				
CH11	2462	14.06	9.64	9.204				
TX 802.11g Mode								
CH01	2412	12.37	8.21	6.622				
CH06	2437	12.14	8.02	6.339				
CH11	2462	12.28	8.08	6.427				
TX 802.11n20 Mode								
CH01	2412	13.35	8.41	6.934				
CH06	2437	13.12	8.24	6.668				
CH11	2462	13.23	8.38	6.887				

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

FCC ID: YVV-AEEMD10

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 \leq 50 mm are determined by: [(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance,mm)] • [$\sqrt{f(GHz)}$]

WIFI:

Mode	[(max. power of channel, including tune-up tolerance, mW)	(min. test separation distance,mm)]	[√f(GHz)]	Result	Limit			
802.11b								
CH01	9.354	5	2.412	2.91	3			
CH06	9.506	5	2.437	2.97	3			
CH11	9.204	5	2.462	2.89	3			
802.11g								
CH01	6.622	5	2.412	2.06	3			
CH06	6.339	5	2.437	1.98	3			
CH11	6.427	5	2.462	2.02	3			
802.11n(20)								
CH01	6.934	5	2.412	2.15	3			
CH06	6.668	5	2.437	2.08	3			
CH11	6.887	5	2.462	2.16	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.d