RF EXPOSURE EVALUATION METHOD
FCC ID: 2ACH9HM-7201F
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:
[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] • [$\sqrt{f(\text{GHz})}$] ≤ 3.0 for 1-g SAR and ≤ 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:

Test Channe	Frequency	Maximum Peak Conducted Output Power（PK）	Maximum Peak Conducted Output Power（AV）	Maximum Peak Conducted Output Power（AV）
TX 802.11b Mode				
	(MHz)	(dBm)	(dBm)	mW
CH01	2412	14.65	9.52	8.954
CH06	2437	14.38	9.47	8.851
CH11	2462	14.05	9.33	8.570
TX 802.11g Mode				
CH01	2412	12.64	8.55	7.161
CH06	2437	12.52	8.41	6.934
CH11	2462	12.41	8.28	6.730
TX 802.11n(20) Mode				
CH01	2412	12.31	8.42	6.950
CH06	2437	12.25	8.36	6.855
CH11	2462	12.47	8.24	6.668
TX 802.11n(40) Mode				
CH03	2422	10.89	7.71	5.902
CH06	2437	10.81	7.52	5.649
CH09	2452	10.78	7.42	5.521

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:

Mode	[(max. power of channel, including tune-up tolerance, mW)	(min. test separation distance,mm)]	[$\sqrt{}$ f(GHz)]	Result	Limit
802.11b					
CH01	8.954	5	2.412	2.78	3
CH06	8.851	5	2.437	2.76	3
CH11	8.570	5	2.462	2.69	3
802.11g					
CH01	7.161	5	2.412	2.22	3
CH06	6.934	5	2.437	2.16	3
CH11	6.730	5	2.462	2.11	3
802.11n(20)					
CH01	6.950	5	2.412	2.16	3
CH06	6.855	5	2.437	2.14	3
CH11	6.668	5	2.462	2.09	3
802.11n(40)					
CH03	5.902	5	2.422	1.84	3
CH06	5.649	5	2.437	1.76	3
CH09	5.521	5	2.452	1.73	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.