

RF EXPOSURE EVALUATION METHOD**FCC ID: 2ABH2AC-B01****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.

1Mbps				
Test Channel	Frequency (MHz)	Peak Output Power (dBm)	Maximum Conducted Output Power (mW)	Peak
CH00	2402	1.772	1.504	
CH39	2441	-0.038	0.991	
CH78	2480	-2.984	0.503	
2Mbps				
CH00	2402	0.424	1.103	
CH39	2441	-0.887	0.815	
CH78	2480	-3.981	0.400	
3Mbps				
CH00	2402	0.468	1.114	
CH39	2441	-0.889	0.815	
CH78	2480	-3.920	0.406	

Remark: The best case gain of the antenna is 0dBi.

0 dBi logarithmic terms convert to numeric result is nearly 1

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:

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

BT:

Mode	[(max. power of channel, including tune-up tolerance, mW)]	(min. test separation distance, mm)]	[\sqrt{f(GHz)}]	Result	Limit
1Mbps					
CH00	1.504	5	2.402	0.46	3
CH39	0.991	5	2.441	0.31	3
CH78	0.503	5	2.480	0.16	3
2Mbps					
CH00	1.103	5	2.402	0.34	3
CH39	0.815	5	2.441	0.25	3
CH78	0.400	5	2.480	0.13	3
3Mbps					
CH00	1.114	5	2.402	0.35	3
CH39	0.815	5	2.441	0.25	3
CH78	0.406	5	2.480	0.13	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.