



RF EXPOSURE EVALUATION METHOD

FCC ID: 2A255-ATAC

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 \leq 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.

Test Channel	Frequency	Peak Output Power	Peak Output Power		
	(MHz)	(dBm)	(mW)		
2.4G CH01	2405	8.64	7.311		

BT

	3	1Mbps			
Test Channel	Frequency	Peak Output Power	Peak Output Power		
iest Chainlei	(MHz) (dBm)		(mW)		
CH00	2402	3.103	2.043		
CH39	2441	2441 3.217 2.097			
CH78	2480	3.232	2.105		
		2Mbps	150		
CH00	2402	3.055	2.021		
CH39	2441 3.166 2.073		2.073		
CH78	2480	3.237	2.107		
		3Mbps			
CH00 2402		3.161	2.071		
CH39	2441	3.225	2.101		
CH78	3.309 2.142				

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

0 dBi logarithmic terms convert to numeric result is nearly 1

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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)] • [$\sqrt{f(GHz)}$]

Test Channel	Peak Output Power (dBm)	[(max. power of channel, including tune-up tolerance, mW)	(min. test separation distance,mm)]	[f(GHz)]	Result	Limit
2.4G CH01	8.64	7.311	5	2.405	2.268	3

BT

				W 2				
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	
1Mbps								
CH00	3.0~4.0	4.0	2.512	5	2.402	0.779	3	
CH39	3.0~4.0	4.0	2.512	5	2.441	0.785	3	
CH78	3.0~4.0	4.0	2.512	5	2.480	0.791	3	
	2Mbps							
CH00	3.0~4.0	4.0	2.512	5	2.402	0.779	3	
CH39	3.0~4.0	4.0	2.512	5	2.441	0.785	3	
CH78	3.0~4.0	4.0	2.512	5	2.480	0.791	3	
3Mbps								
CH00	3.0~4.0	4.0	2.512	5	2.402	0.779	3	
CH39	3.0~4.0	4.0	2.512	5	2.441	0.785	3	
CH78	3.0~4.0	4.0	2.512	5	2.480	0.791	3	

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

2.4 G and BT can not simultaneously transmission.

Conclusion: No SAR is required.