

#### RF EXPOSURE EVALUATION METHOD

## FCC ID: 2AB6DAAI9002QMI

### 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  $\leq 50$  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:

TV 000 44h Mada										
TX 802.11b Mode										
Test	Frequency	Maximum Conducted	Maximum Conducted							
Channe		Output Power(PK)	Output Power(AV)	Output Power(AV)						
Channe	(MHz)	(dBm)	(dBm)	(mW)						
CH01	2412	14.79	9.54	8.995						
CH06	2437	14.72	9.56	9.036						
CH11	2462	14.57	9.50	8.913						
	TX 802.11g Mode									
CH01	2412	12.97	8.92	7.798						
CH06	2437	12.94	8.89	7.745						
CH11	2462	12.87	8.82	7.621						
	TX 802.11n-HT20 Mode									
CH01 2412 11.03 8.76 7.516										
CH06	2437	10.91	8.63	7.295						
CH11	2462	10.87	8.59	7.228						
TX 802.11n-HT40 Mode										
CH03	2422	9.84	7.47	5.585						
CH06	2437	9.79	7.42	5.521						
CH09	2452	9.73	7.36	5.445						



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1Mbps							
Test Channel	Frequency	Peak Output Power	Peak Output Power				
Test Chamilei	(MHz)	(dBm)	(mW)				
CH00	2402	3.81	2.404				
CH39	2441	4.16	2.606				
CH78	2480	4.28	2.679				
2Mbps							
CH00	2402	3.18	2.080				
CH39	2441	4.07	2.553				
CH78	2480	4.45	2.786				
3Mbps							
CH00	2402	3.56	2.270				
CH39	2441	4.42	2.767				
CH78	2480	4.73	2.972				

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Test Channe	Frequency	Maximum Conducted Output Power(PK)	Maximum Conducted Output Power(PK)	
	(MHz)	(dBm)	mW	
CH00	2402	-7.95	0.160	
CH19	2440	-6.51	0.223	
CH39	2480	-5.11	0.308	

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  $\leq$  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 (AV power)	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 802.11	n-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	
TX 802.11n-HT40 Mode								
CH03	6.0~8.0	8.0	6.310	5	2.422	1.96	3	
CH06	6.0~8.0	8.0	6.310	5	2.437	1.97	3	
CH09	6.0~8.0	8.0	6.310	5	2.452	1.98	3	

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Test Channel	Range (PK Power)	tune up max power (dBm)	[(max. power of channel, including tune-up tolerance, mW)	(min. test separation distance,mm)]	[f(GHz)]	Result	Limit	
			1	Mbps				
CH00	2.5~4.5	4.5	2.818	5	2.402	0.874	3	
CH39	2.5~4.5	4.5	2.818	5	2.441	0.881	3	
CH78	2.5~4.5	4.5	2.818	5	2.48	0.888	3	
			2	Mbps				
CH00	3.0~5.0	5.0	3.162	5	2.402	0.980	3	
CH39	3.0~5.0	5.0	3.162	5	2.441	0.988	3	
CH78	3.0~5.0	5.0	3.162	5	2.48	0.996	3	
3Mbps								
CH00	3.0~5.0	5.0	3.162	5	2.402	0.980	3	
CH39	3.0~5.0	5.0	3.162	5	2.441	0.988	3	
CH78	3.0~5.0	5.0	3.162	5	2.48	0.996	3	





BT 4.0

Test Channel	Range (PK Power)	tune up max power (dBm)	[(max. power of channel, including tune-up tolerance, mW)	(min. test separation distance,mm)]	[f(GHz)]	Result	Limit
CH00	-8~-5	-5	0.316	5	2.402	0.098	3
CH39	-8~-5	-5	0.316	5	2.441	0.099	3
CH78	-8~-5	-5	0.316	5	2.48	0.100	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.