RF EXPOSURE EVALUATION METHOD

FCC ID: 2ATI7STK-I3

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)] • [√f(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.

BT Right Controller

1Mbps			
Test Channel	Frequency (MHz)	Peak Output Power (dBm)	Peak Output Power (mW)
CH00	2402	0.397	1.096
CH39	2441	-1.478	0.712
CH78	2480	-2.990	0.502
2Mbps			
CH00	2402	2.756	1.886
CH39	2441	0.937	1.241
CH78	2480	-0.642	0.863
3Mbps			
CH00	2402	3.438	2.207
CH39	2441	1.602	1.446
CH78	2480	0.027	1.006

BT Left Controller

1Mbps			
Test Channel	Frequency (MHz)	Peak Output Power (dBm)	Peak Output Power (mW)
CH00	2402	-1.550	0.700
CH39	2441	-3.152	0.484
CH78	2480	-4.503	0.355
2Mbps			
CH00	2402	1.089	1.285
CH39	2441	-0.531	0.885
CH78	2480	-1.945	0.639
3Mbps			
CH00	2402	1.475	1.404
CH39	2441	-0.155	0.965
CH78	2480	-1.565	0.697

Remark: The best case gain of the antenna is -1.42dBi.
-1.42dBi logarithmic terms convert to numeric result is nearly 0.72

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)] • [√f(GHz)]

BT Right Controller

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	1~-1	1	1.259	5	2.402	0.390	3
CH39	-1~-3	-1	0.794	5	2.441	0.248	3
CH78	-1~-3	-1	0.794	5	2.480	0.250	3
2Mbps							
CH00	3~1	3	1.995	5	2.402	0.618	3
CH39	1~-1	1	1.259	5	2.441	0.393	3
CH78	0~-2	0	1.000	5	2.480	0.315	3
3Mbps							
CH00	4~2	4	2.512	5	2.402	0.779	3
CH39	2~0	2	1.585	5	2.441	0.495	3
CH78	1~-1	1	1.259	5	2.480	0.397	3

BT Left Controller

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	-1~-3	-1	0.794	5	2.402	0.246	3
CH39	-3~-5	-3	0.501	5	2.441	0.157	3
CH78	-3~-5	-3	0.501	5	2.480	0.158	3
2Mbps							
CH00	2~0	2	1.585	5	2.402	0.491	3
CH39	0~-2	0	1.000	5	2.441	0.312	3
CH78	-1~-3	-1	0.794	5	2.480	0.250	3
3Mbps							
CH00	2~0	2	1.585	5	2.402	0.491	3
CH39	0~-2	0	1.000	5	2.441	0.312	3
CH78	-1~-3	-1	0.794	5	2.480	0.250	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.