RF EXPOSURE EVALUATION METHOD
FCC ID: 2AP8SK16R

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.

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BLE 1M			
Test Channel	Frequency (MHz)	Peak Output Power (dBm)	Peak Output Power (mW)
CH00	2402	3.687	2.337
CH39	2440	3.969	2.494
CH78	2480	3.786	2.391
BLE 2M			
Test Channel	Frequency (MHz)	Peak Output Power (dBm)	Peak Output Power (mW)
CH00	2402	3.791	2.394
CH39	2440	4.062	2.548
CH78	2480	3.841	2.422

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

0 dBi logarithmic terms convert to numeric result is nearly 1.00

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)]

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Test Channel	max power (dBm)	[(max. power of channel, including tune-up tolerance, mW)	(min. test separation distance,mm)]	[f(GHz)]	Result	Limit
BLE 1M						
CH00	3.687	2.337	5	2.402	0.724	3
CH19	3.969	2.494	5	2.440	0.779	3
CH39	3.786	2.391	5	2.480	0.753	3
BLE 2M						
CH00	3.791	2.394	5	2.402	0.742	3
CH19	4.062	2.548	5	2.440	0.796	3
CH39	3.841	2.422	5	2.480	0.763	3

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

Conclusion: No SAR is required.