

447498 D01 General RF Exposure Guidance v06

SAR test exclusion calculations

Section 4.3: General SAR test exclusion guidance / Section 4.3.1: Standalone SAR test exclusion considerations

	Input	Select Units
Max Power:	2.4	dBm
Min separation distance:	5	mm
Frequency, f:	2440	MHz

Value reference Number	Values used for Calculation		Reference number definition
v1	2	mW	[max. power of channel, including tune-up tolerance, mW] 'Rounded to nearest mW
v2	5	mm	[min. test separation distance, mm] 'Rounded to nearest mm
v3	1.562		[√f(GHz)]

a) For 100 MHz to 6 GHz and test separation distances ≤ 50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:
[(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,

1g Exclusion Threshold:	9.6	mW	<= 3 * v2 / v3
10g Exlusion Threshold:	24.0	mW	<= 7.5 * v2 / v3

Conclusions:	The EUT max power is BELOW the threshold. SAR Testing is NOT required for Body applications
	The EUT max power is BELOW the threshold. SAR Testing is NOT required for Extremity applications