

**FCC IC SAR Eclusion**

4.3.1. Standalone SAR test exclusion considerations

**100 MHz to 6 GHz at separation distance less than or equal to 50 mm**

**SAR Test Exclusion Calculator**

**Insert values in yellow highlighted boxes to determine SAR Exclusion**

Max Power **4** mW  
 Min Separation **5** mm  
 Frequency **2.4** GHz

**When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.**

**Answer 1.2 Must be less than or equal to 3.0 for SAR Exclusion**

**KDB 628591 D01 TCB Exclusion List v14**

**TCBs are excluded from granting if:**

**General Population:** The Answer is equal to or greater than 24 (8x threshold)

**Controlled Use:** The Answer is equal to or greater than 60 (20x threshold)

**and**, when published RF exposure KDB procedures are not established for SAR testing or when SAR data is not provided to support compliance.

**Please also note the following:** [FCC KDB quote] These test exclusion conditions are based on source-based time-averaged maximum conducted output power of the RF channel requiring evaluation, adjusted for tune-up tolerance, and the minimum test separation distance required for the exposure conditions. The minimum test separation distance is determined by the smallest distance from the antenna and radiating structures or outer surface. [End quote]

**RSS-102**

**Table 1: SAR evaluation – Exemption limits for routine evaluation based on frequency and separation distance**

The device operating with 4mW output power and maintaining a  $\leq 5$  mm distance complies with the requirements of RSS-102 Table 1 exclusion for SAR evaluation

Frequency (MHz)	Exemption Limits (mW)				
	At separation distance of $\leq 5$ mm	At separation distance of 10 mm	At separation distance of 15 mm	At separation distance of 20 mm	At separation distance of 25 mm
$\leq 300$	71 mW	101 mW	132 mW	162 mW	193 mW
450	52 mW	70 mW	88 mW	106 mW	123 mW
835	17 mW	30 mW	42 mW	55 mW	67 mW
1900	7 mW	10 mW	18 mW	34 mW	60 mW
2450	4 mW	7 mW	15 mW	30 mW	52 mW
3500	2 mW	6 mW	16 mW	32 mW	55 mW
5800	1 mW	6 mW	15 mW	27 mW	41 mW

Frequency (MHz)	Exemption Limits (mW)				
	At separation distance of 30 mm	At separation distance of 35 mm	At separation distance of 40 mm	At separation distance of 45 mm	At separation distance of $\geq 50$ mm
$\leq 300$	223 mW	254 mW	284 mW	315 mW	345 mW
450	141 mW	159 mW	177 mW	195 mW	213 mW
835	80 mW	92 mW	105 mW	117 mW	130 mW
1900	99 mW	153 mW	225 mW	316 mW	431 mW
2450	83 mW	123 mW	173 mW	235 mW	309 mW
3500	86 mW	124 mW	170 mW	225 mW	290 mW
5800	56 mW	71 mW	85 mW	97 mW	106 mW

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 Revision 1

Garmin International, Inc.  
 Model: CC3110  
 Test #: 190114  
 Test to: 47 CFR 15C, RSS-Gen RSS-247  
 File: CC3110 RF Exemption

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 Page 1 of 1