Transcore Model: 051116

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 Min Separation 13.0000 mW 5 mm 0.917 GHz

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

Answer

Frequency

2.5 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

Frequency		nW)			
(MHz)	At separation				
	distance of				
_	≤5 mm	10 mm	15 mm	20 mm	25 mm
≤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	Exemption Limits (mW)					
(MHz)	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 ≥50 mm	
≤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	

The device operating with 13mW output power and maintaining a 10 cm distance complies with the requirements of RSS-102 Table 1 exclusion for SAR evaluation

Rogers Labs, Inc. Transcore SN: EUT1

 4405 West 259th Terrace
 HVIN: 051116
 FCC ID: FIH051116

 Louisburg, KS 66053
 Test: 211028
 IC: 1584A-051116

Phone/Fax: (913) 837-3214 Test to: 47CFR Parts 2, 90 and RSS-137 Date: December 14, 2021

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