RF Exposure Compliance

Evaluation for Portable conditions

Model: NINA-B506 and NINA-B501

FCC ID XPYNINAB5

The SAR test exclusion thresholds are described in Appendix A as per FCC KDB 447498 D01 General RF Exposure Guidance v06.

Appendix A

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 equation and threshold in 4.3.1 must be applied to determine SAR test exclusion.

MHz	5	10	15	20	25	mm
150	39	77	116	155	194	*SAR Test Exclusion Threshold* (mW)
300	27	55	82	110	137	
450	22	45	67	89	112	
835	16	33	49	66	82	
900	16	32	47	63	79	
1500	12	24	37	49	61	
1900	11	22	33	44	54	
2450	10	19	29	38	48	
3600	8	16	24	32	40	
5200	7	13	20	26	33	
5400	6	13	19	26	32	
5800	6	12	19	25	31	

Note: 10-g Extremity SAR Test Exclusion Power Thresholds are 2.5 times higher than the 1-g *SAR Test Exclusion Thresholds* indicated above. These thresholds do not apply, by extrapolation or other means, to occupational exposure limits.

NINA-B5 max measured output power = 9.1 dBm = 8.1 mW (rounded up to 9 mW)
Separation distance = 5 mm
2.402 GHz < f < 2.480 GHz (where f is the frequency)

General SAR test exclusion is determined as follow (Chapter 4.3.1 (a)):

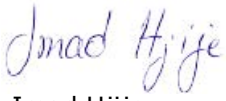
a) For 100 MHz to 6 GHz and *test separation distances* ≤ 50 mm, the 1-g and 10-g *SAR test exclusion thresholds* are determined by the following:

[(*max. power of channel, including tune-up tolerance, mW*) / (*min. test separation distance, mm*)] · [$\sqrt{f_{(GHz)}}$] ≤ 3.0 for 1-g SAR, and ≤ 7.5 for 10-g extremity SAR,[30] where

- $f_{(GHz)}$ is the RF channel transmit frequency in GHz

Applying the formula, we get:
(9 / 5) x sqrt(2.48) = 2.8 < 3.0 for 1-g SAR

Regards,



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