

RF EXPOSURE EVALUATION

1. PRODUCT INFORMATION

	Product Description	NINA-B4
	Model Name	NINA-B401, NINA-B411
4	FCC ID	XPYNINAB4

2. EVALUATION METHOD

According to 447498 D01 General RF Exposure Guidance v05

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)] $\cdot [\sqrt{f(GHz)}] \le 3.0$ 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

When the minimum test separation distance is < 5 mm, a distance of 5 mm according to 4.1 f) is applied to determine SAR test exclusion.

The exposure safety distance is less than 5mm.

3. CALCULATION

GFSK-1M

Pt=5.817dBm=3.82mW

The value of the Maximum output power P_t is referred to the test report of the CFR47 §15.247.

The result for RF exposure evaluation SAR=(3.82mW /5mm) .[$\sqrt{2.48}$ (GHz)]= 1.20<3.0 for 1-g SAR and \leq 7.5 for 10-g extremity SAR.

GFSK-2M

Pt=5.864dBm=3.86mW

The value of the Maximum output power P_t is referred to the test report of the CFR47 $\S15.247$.

The result for RF exposure evaluation SAR=(3.86mW /5mm) .[$\sqrt{2.402}$ (GHz)]= 1.20<3.0 for 1-g SAR and \leq 7.5 for 10-g extremity SAR.

O-QPSK

Pt=5.651dBm=3.67 mW

The value of the Maximum output power P_t is referred to the test report of the CFR47 $\S15.247$.

The result for RF exposure evaluation SAR=(3.67mW /5mm) .[$\sqrt{2.440}$ (GHz)]= 1.15<3.0 for 1-g SAR and \leq 7.5 for 10-g extremity SAR.

4. CONCLUSION

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the Bedicated Pestho/Inspection Stamp" is deemed to The SAR revaluation is not of equired the content of the report is not permitted without the written authorization of AGE. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15day after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com.