MPE CALCULATION (FCC ID: 2AJLWGBX2)

RF Exposure Requirements: 47 CFR §1.1307(b)

RF Radiation Exposure Limits: 47 CFR §1.1310

RF Radiation Exposure Guidelines: FCC OST/OET Bulletin Number 65

EUT Frequency Band: 801.11b/g/n: 2402-2480MHz
802.11a/n/ac: 5150-5825MHz

Limits for General Population/Uncontrolled Exposure in the band of: 1500 - 100,000 MHz

Power Density Limit: 1 mW / cm^2

Equation: $S = PG / 4\pi R^2$ or $R = \sqrt{PG / 4\pi S}$

Where, S = Power Density

P = Power Input to Antenna

G = Antenna Gain

R = distance to the center of radiated antenna

Prediction distance 20 cm

EUT: GNARBOX 2.0 SSD

Radio	Frequency (MHz)	Conducted Output Power (dBm)	Directional Antenna Gain (dBi)	Separation distance (cm)	Power Density (mW/ cm^2)	MPE Limit (mW/ cm^2)
802.11b	2412-2462	16.75	-10	20	0.0009	1
802.11g	2412-2462	12.28	-10	20	0.0003	1
802.11n-20M	2412-2462	19.36	-7	20	0.003	1
802.11n-40M	2422-2452	18.36	-7	20	0.003	1
802.11a	5150-5825	15.49	-5	20	0.002	1
802.11n	5150-5825	18.03	-2	20	0.008	1
802.11n-40M	5190-5795	17.96	-2	20	0.008	1
802.11ac-80M	5210-5775	13.03	-2	20	0.003	1

The above results show that the device complies with the MPE requirement.

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