

APPENDIX A: FCC PART 1.1307, 1.1310, 2.1091, 2.1093 RF EXPOSURE

From FCC 1.1310 Table 1B, the maximum permissible RF exposure for an uncontrolled environment for a device operating in the frequency band 902 – 928 MHz is 0.61 mW/cm² (calculation based on 915 MHz). The actual power density for the EUT and two antenna options is calculated as shown below. As shown by the calculation and table below, the EUT meets this requirement.

$$S = (P \times G) / (4 \times \pi \times d^2)$$

where:

S = power density

P = transmitter conducted power in (W)

G = antenna numeric gain

d = distance to radiation center (m)

Antenna Manufacturer	Antenna Type	Antenna Model	Gain (dBi)	Numeric Gain	Power (W)	Separation Distance (m)	Power Density (W/m ²)	Power Density (mW/cm ²)
Nearson	Whip	S467AH-915S	2.0	1.585	0.059	0.2	0.18	0.018
Bluewave	Yagi	EDY9432	8.65	7.328	0.022	0.2	0.32	0.032