RF Exposure Compliance (Prediction of MPE limit at a given distance)

Reference Standard:	☒ IEEE Std 1528a ☒ RSS 102, Issue 4 ☒ KDB 447498 ☒ OET 65	☒ MPE ☐ SAR Evaluation
Frequency Range:	☒ 902-928MHz	
Part 15.247		
Antenna Separation Distance	>100cm	
Antenna Gain (maximum)	15dBi (31.6 numeric gain)	
Maximum Output Power at antenna terminal	21dBm (126mW)	
Power Density	0.032 mW/cm^2	
Part 90M		
Antenna Separation Distance	>120cm	
Antenna Gain (maximum)	15DBI (31.6 (numeric)	
Maximum Output Power at antenna terminal	35dBm (3162mW)	
Power Density	0.552 mW/cm^2	
GENERAL POPULATION/UNCONTROLLED LIMIT		
FCC/RSS102	0.610 mW/cm^2	

Note:	**The device doesn't transmitting simultaneously in multiple frequency bands or different FCC Parts. Frequency management is configured by the factory to comply with applicable radio regulations.** The highest RF output power of the unit was measured and recorded. According to §1.1310 of the FCC rules. The MPE was calculated at 120cm to show compliance with the power density limit. The following formula was used to calculate the Power Density: $S=PG/4\pi R^2$