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

Reference Standard(s)	☒ IEEE Std 1528a ☒ RSS 102, Issue 5 ☒ KDB 447498 ☒ FCC Parts 2.1091 and 2.1093 ☐ OET 65	☒ MPE ☐ SAR Evaluation
Frequency Range:	☒ 902-928MHz	
FCC Part 15.247		
Antenna Separation Distance	>100cm	
Antenna Gain (maximum)	17dBi (50.1 numeric gain)	
Maximum Output Power at antenna terminal	19dBm (79.4mW)	
Power Density	0.32W/m^2 (0.032 mW/cm^2)	
FCC Part 90		
Antenna Separation Distance	>100cm	
Antenna Gain (maximum)	17dBi (50.1 numeric gain)	
Maximum Output Power at antenna terminal	35dBm (3162mW)	
Power Density	12.6 W/m^2	
RF FIELD STRENGTH LIMITS FOR CONTROLLED USE DEVICES @915MHZ		
FCC (OET 65)	30 W/m^2	
RSS 102, Issue 5	19 W/M^2	

Note:	**Professional Antenna Installation on the highway line system.** **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/IC rules. The MPE was calculated at 100cm to show compliance with the power density limit. The following formula was used to calculate the Power Density: S=PG/4πR^2