## **RF Exposure**

FCC ID: NVR230021014U

## 1.0 INTRODUCTION

These calculations are based on the highest EIRP possible from the EUT considering maximum power and antenna gain. The highest output power of the EUT is 30.5 dBm and the gain of the max antenna is 3 dBi indoor and a 11 dBi outdoor antenna. The antennas will always be separated in actual use.

## 2.0 MINIMUM SEPARATION DISTANCE PER OET 65

The following information provides the minimum separation distance for the EUT, as calculated from **FCC OET 65 Appendix A, Table B** "Guidelines for General Population/Uncontrolled Exposure"

		Max Power + 1 for				(S) GP		
		tune up tolerance	Max Ant	Duty		Limit	MSD	
Transmitter	MHz	dBm	Gain dBi	Cycle %	EIRP W	mW/cm^2	Meters	
Uplink	450	37.5	3	100.0	11.2202	0.300	0.5455	Indoor
Dowlink	450	28.4	11	100.0	8.7096	0.300	0.4807	Outdoor

The data above is the highest power levels for part 90

Notes on the above table:

- a. S is the power density General Population Limit from OET 65 table 1B
- EIRP Power is the Peak Effective Radiated Power.
  EIRP = (Conducted Power + Antenna gain) \* Duty Cycle.
- c. MSD (Minimum Separation Distance) = ((EIRP\*30)/3770\*S))^0.5

## Conclusion:

Since the specified minimum distance between the external antenna and personnel is 0.8 meters indoor and 1.2 meters outdoors, it meets the requirements.