1.1 Test Procedure

An MPE evaluation for was performed in order to show that the device was compliant with §2.1091. The maximum power density was calculated for each transmitter at a separation distance of 20cm.

$$S = \frac{PG}{4\pi R^2} \qquad 3)$$

where: S = power density (in appropriate units, e.g. mW/cm^2)
P = power input to the antenna (in appropriate units, e.g., mW)
G = power gain of the antenna in the direction of interest relative to an isotropic radiator
R = distance to the center of radiation of the antenna (appropriate units, e.g., cm)

or:

$$S = \frac{EIRP}{4\pi R^2} \qquad (4)$$

where: EIRP = equivalent (or effective) isotropically radiated power

Client specified safe distance of 3 m or 300 cm.

1.2 Results:

- EIRP = 37.51 dBm or 5.636W=5626mW

Power Density = 5626 / 1130500

Power Density = 0.004977 mW/cm^2

Limit at 80.6496GHz = 1mW/cm^2

The calculated maximum power density at 3m distance is less than the limit for general population / uncontrolled exposure.

Test Personnel:	Vathana Ven VSV	Test Date:	09/17/2020
Supervising/Reviewing Engineer: (Where Applicable)	N/A		
Product Standard:	CFR47 FCC Part 95, Subpart M	Limit Applied:	See report section 6.3
Input Voltage:	120VAC 60Hz		
Pretest Verification w/ Ambient Signals or BB Source:	**N/A**	Ambient Temperature:	21 ºC
		Relative Humidity:	46 %
		Atmospheric Pressure:	1007 mbars

Deviations, Additions, or Exclusions: None