US Tech Test Report: FCC ID: Test Report Number: Issue Date: Customer:

Model:

FCC Part 15 Certification/ RSS 247
2AODE-RFUGSB
17-0455
March 7, 2018
Asymmetric Technologies
RFUGS Model B

Maximum Public Exposure to RF (MPE) CFR 15.247 (i), CFR 1.1310 (e)

The maximum exposure level to the public from the RF power of the EUT shall not exceed a power density, **S** as per the respective limits in Table 1 below, at a distance, d, of 20 cm (Mobile condition) from the EUT.

Table 1—Limits for Maximum Permissible Exposure (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm²)	Averaging time (minutes)
Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*100	30
1.34-30	824/f	2.19/f	*180/f ²	30
30-300	27.5	0.073	0.2	30
300-1,500			f/1500	30
1,500-100,000			1.0	30

f = frequency in MHz * = Plane-wave equivalent power density

Therefore, for:

MPE for 902 MHz - 928 MHz

Limit: (f/1500) mW/cm² = 915/1500 = 0.61mW/cm² Peak Power (dBm) = 13.20 dBm Peak Power (Watts) = 0.021 W Gain of Transmit Antenna = 1.2 dB_i = 1.32, numeric d = Distance = 20 cm = 0.2 m

S = (PG/ $4\pi d^2$) = EIRP/4A = 0.021(1.32)/4* π *0.2*0.2 =0.0277/0.5030 = 0.0551 W/m² = (0.0551 W/m²) (1m²/W) (0.1 mW/cm²) = 0.00551 mW/cm²

which is << less than $S = 0.61 \text{mW/cm}^2$