

**MPE CALCULATION**  
**FCC ID: DBZIFBT4VHFA**

**RF Exposure Requirements:** 47 CFR §1.1307(b)  
**RF Radiation Exposure Limits:** 47 CFR §1.1310  
**RF Radiation Exposure Guidelines:** FCC OST/OET Bulletin Number 65  
**EUT Frequency:** 174.100-215.775 MHz  
**Limits for General Population/Uncontrolled Exposure in the band of:** 30 - 300 MHz  
**Power Density Limit:** 0.2 mW / cm<sup>2</sup>

**Equation:**  $S = PG / 4\pi R^2$  or  $R = \sqrt{PG / 4\pi S}$   
 Where, S = Power Density  
 P = Power Input to Antenna  
 G = Antenna Gain  
 R = distance to the center of radiated antenna

**EUT: Synthesized VHF IFB Transmitter, Model No. : IFBT4/E01-VHF**

Power = 16.99 dBm, Array Gain + Antenna Gain = 3 dBi, Power density = 0.0198 mW/ cm<sup>2</sup>

Type	CH Freq (MHz)	Conducted Power (dBm)	Antenna Gain (dBi)	Directional Gain (dBi)	Measurement Distance (cm)	Calculated MPE (mW/cm <sup>2</sup> )	MPE Limit (mW/cm <sup>2</sup> )	Pass/Fail
UHF	195.1	14.57	2.15	2.15	20	0.093	0.2	Pass

The Above Result had shown that the Device complied with MPE requirement.

Completed By: Rachana Khanduri



SIEMIC, Inc

775 Montague Expressway, Milpitas, CA 95035

Phone: (408) 526-1188

Date: 09/25/2018