

# MPE Evaluation

**Applicant:** Lautsprecher Teufel GmbH

**FCC ID:** 2ADQS-107001336

**Model:** ROCKSTER AIR 2, FENDER x TEUFEL ROCKSTER AIR 2

## MPE Evaluation

### RF Exposure Compliance Requirement

#### Standard Requirement

According to KDB447498D01 General RF Exposure Guidance v06 and FCC 1.1310 Radiofrequency radiation exposure limits for General Population/Uncontrolled Exposure

#### EUT RF Exposure

$$P_d = \frac{P \cdot G}{4 \pi R^2}$$

$P_d$  = power density in mW/cm<sup>2</sup>

$P$  = output power to antenna in mW

$G$  = gain of antenna in linear scale

$$\pi = 3.14$$

$R$  = distance between observation point and center of the radiator in cm

#### Bluetooth (BLE mode):

The Max Output Power is 1.865 dBm in 2.402GHz;

Antenna gain: 2.44dBi, gain of antenna in linear scale: 1.75

$R=20\text{cm}$

$$P_d = \frac{P \cdot G}{4 \pi R^2} = 0.00054 \text{ mW/cm}^2 < 1 \text{ (limits) mW/cm}^2$$

#### Bluetooth (Classic mode):

The Max Output Power is 3.063 dBm Normal mode 2.441GHz;

Antenna gain: 2.44dBi, gain of antenna in linear scale: 1.75

$R=20\text{cm}$

$$P_d = \frac{P \cdot G}{4 \pi R^2} = 0.00071 \text{ mW/cm}^2 < 1 \text{ (limits) mW/cm}^2$$

--END--