## **MPE Calculation / RF Exposure**

Product: DOG TRAINING DEVICE

Applicant: Dogtra Co., Ltd. Model: ARC Handsfree

Address: #715-2(146BL-3L) Gojan-dong, Namdong-gu, Incheon, Korea

FCC ID: SWN-ARCHANDSFREE

Antenna Type: Screwed helical antenna

Antenna Gain: 0.5 dBi

Nominal rated field strength: 43.40dBµV/m at 3m

Maximum allowed field strength of production tolerance: +/- 3dB

According to the 4.3.1 of 447498 D01 General RF Exposure Guidance v06:

Based on the Maximum allowed field strength of production tolerance was 46.40 dB $\mu$ V/m at 3m in frequency 27.195 MHz, thus;

The EIRP =  $[(FS*D)^2*1000 / 30] = 0.000013 \text{ mW}$ 

Conducted power = Radiated Power (EIRP) – Antenna Gain So;

Conducted Power = 0.000012 mW.

The SAR Exclusion Threshold Level for 27.195MHz when the minimum test separation distance is < 50mm:

= [474 \* (1 + log(100/f(MHz))]/2

= 371.0 mW

Since the above conducted output power is well below the SAR Exclusion threshold level, so the EUT is considered to comply with SAR requirement without testing.