




## **Exhibit: RF Exposure – FCC**

Report File #: 7169004825R-000

Client	Comfable Inc	
Product	QSun UV Tracker	
Standard(s)	FCC Part 15 Subpart 15.247:2016 FCC KDB 447498:2015	

## ***RF Exposure – FCC***

The device is intended for use on shoulders and on hats. The minimum separation distance from the radiating structure to any part of the body of a user is 6 mm as stated by the manufacturer during normal operation.

The EUT contains a 2400 – 2483.5 MHz DTS transmitter.

### **General SAR test exclusion guidance:**

As per FCC KDB 447498 Section 4.3.1 a), the 1-g SAR Test Exclusion Threshold for 100 MHz to 6 GHz at test separation distances  $\leq 50$  mm is determined by:

$$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] [\sqrt{f_{\text{(GHz)}}}] \leq 3.0$$

Where:

$f_{\text{(GHz)}}$  is the RF channel transmit frequency in GHz

### **SAR Calculations: 2402 – 2480 MHz DTS transmitter**

Peak conducted power was measured to be 0.36 mW. At a separation distance of 6mm, this results to:

$$[0.36 \text{ mW} / 6 \text{ mm}] * [\sqrt{2.480 \text{ GHz}}] = 0.1 \leq 30$$

SAR Exclusion Threshold condition is met with peak conducted power.