

RF Exposure Evaluation Declaration

Product Name : SkyCaddie

Model No. : Touch

FCC ID. : X8F-SCTOUCH

Applicant: SkyHawke Technologies, LLC

Address: 274 Commerce Park Drive, Ridgeland, Mississippi 39157 USA

Date of Receipt : 2014/02/17

Date of Declaration: 2014/12/31

Report No. : 1490372R-RF-US-Exp

Report Version : V1.0



The declaration results relate only to the samples calculated.

The declaration shall not be reproduced except in full without the written approval of QuieTek Corporation.



1. RF Exposure Evaluation

1.1. Limits

According to FCC 1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in 1.1307(b)

LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency Range	Electric Field	Magnetic Field	Power Density	Average Time		
(MHz)	Strength (V/m)	Strength (A/m)	(mW/cm ²)	(Minutes)		
(A) Limits for Occupational/ Control Exposures						
300-1500	1		F/300 6			
1500-100,000	1		5	6		
(B) Limits for General Population/ Uncontrolled Exposures						
300-1500			F/1500 6			
1500-100,000			1	30		

F= Frequency in MHz

Friis Formula

Friis transmission formula: $Pd = (Pout*G)/(4*pi*r^2)$

Where

Pd = power density in mW/cm²

Pout = output power to antenna in mW

G = gain of antenna in linear scale

Pi = 3.1416

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

Pd id the limit of MPE, 1 mW/cm². If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance r where the MPE limit is reached.

1.2. Test Procedure

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

The temperature and related humidity: 18°C and 78% RH.



1.3. Test Result of RF Exposure Evaluation

Product	SkyCaddie
Test Mode	Transmit
Test Condition	RF Exposure Evaluation

Antenna Gain

Antenna Gain: The maximum Gain measured in fully anechoic chamber is 0.2dBi or 1.05 in linear scale.

Output Power into Antenna & RF Exposure Evaluation Distance:

GFSK						
Bluetooth Function						
Channel	Channel Frequency (MHz)	Output Power to Antenna (mW)	Power Density at R = 20 cm (mW/cm ²)			
00	2402	2.6363	0.00055			
19	2440	3.7154	0.00078			
39	2480	5.1880	0.00108			

The power density Pd (4th column) at a distance of 20 cm calculated from the Friis transmission formula is far below the limit of 1 mW/cm².