FCC TEST REPORT Report No.: FR552534

4.9. RF Exposure

FCC Rules and Regulations Part 1.1307, 1.1310, 2.1091, 2.1093:

RF Exposure Compliance

4.9.1. Limits of Maximum Permissible Exposure (MPE)

(A) Limits for Occupational / Controlled Exposure

Frequency Range	Electric Field	Magnetic Field	Power Density (S)	Averaging Time
(MHz)	Strength (E) (V/m)	Strength (H) (A/m)	(mW/cm²)	$ E ^2$, $ H ^2$ or S
				(minutes)
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842/f	4.89/f	(900/f)*	6
30-300	61.4	0.163	1.0	6
300-1500			F/300	6
1500-100,000			5	6

(B) Limits for General Population / Uncontrolled Exposure

Frequency Range	Electric Field	Magnetic Field	Power Density (S)	Averaging Time	
(MHz)	Strength (E) (V/m)	Strength (H) (A/m)	(mW/cm²)	E ² , H ² or S	
				(minutes)	
0.3-1.34	614	1.63	(100)*	30	
1.34-30	824/f	2.19/f	(180/f)*	30	
30-300	27.5	0.073	0.2	30	
300-1500			F/1500	30	
1500-100,000			1.0	30	

F=frequency in MHz

SPORTON International Inc.

FCC ID : RSE-ST585V6 TEL: 886-2-2696-2468 Page No. : 51 of 56 FAX: 886-2-2696-2255 Issued Date : June 24, 2005

^{*}Plane-wave equivalent power density

FCC TEST REPORT Report No.: FR552534

4.9.2. MPE Calculations

E (V/m) =
$$\frac{\sqrt{30 \times P \times G}}{d}$$
 Power Density: Pd (mW/cm²) = $\frac{E^2}{377}$

E=Electric field (V/m)

P=Peak output power (mW)

G=Antenna numeric gain (numeric)

d=Separation distance (m)

Because the EUT is belong to General Population/ Uncontrolled Exposure. So the Limit of Power Density is 1.0 mW/cm². We can change the formula to:

$$d = \sqrt{\frac{30 \times P \times G}{377}}$$

CCK

Channel NO.	Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm²)	Limit of Power Density (S) (mW/cm²)
CH 01	3.80	2.40	17.97	62.66	0.0299	1
CH 06	3.80	2.40	17.72	59.16	0.0283	1
CH 11	3.80	2.40	18.16	65.46	0.0313	1

SPORTON International Inc. FCC ID

TEL: 886-2-2696-2468 Page No. : 52 of 56 FAX: 886-2-2696-2255 Issued Date : June 24, 2005

: RSE-ST585V6

FCC TEST REPORT Report No.: FR552534

OFDM

Channel NO.	Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Calculated RF Exposure Separation Distance (m)	Minimum RF Exposure Separation Distance (m)
CH 01	3.80	2.40	19.81	95.72	0.0457	1
CH 06	3.80	2.40	19.54	89.95	0.0430	1
CH 11	3.80	2.40	20.04	100.93	0.0482	1

4.9.3. FCC Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. In order to avoid the possibility of exceeding the FCC radio frequency exposure limits, human proximity to the antenna shall not be less than 20 cm (8 inches) during normal operation. It is proposed to include the RF exposure safety information in user manual.

SPORTON International Inc.

FCC ID : RSE-ST585V6 TEL: 886-2-2696-2468 Page No. : 53 of 56 FAX: 886-2-2696-2255 Issued Date : June 24, 2005