

Exhibit: RF Exposure – FCC

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Client	Ecobee Inc.	
Product	EBERS42 Remote Sensor	
Standard(s)	FCC Part 15 Subpart 15.247 FCC KDB 447498 v06	Canada

RF Exposure – FCC

The device is a mobile device intended to generally be used in such a way that a separation distance of at least 20 centimeters is normally maintained between the transmitter's radiating structure and the body of the user or nearby persons.

Radiofrequency Radiation Exposure Evaluation: Mobile Devices

Mobile devices shall be evaluated for RF radiation exposure according to the provisions of FCC §2.1091 and the MPE guidelines identified in FCC §1.1310.

As per FCC §1.1310 Table 1(B), the limit for Maximum Permissible Exposure (MPE) to radiofrequency electromagnetic fields for General Population/Uncontrolled Exposure in the frequency range of 300 MHz to 1.5 GHz is f/1500 mW/cm² and in the frequency range of 1.5GHz to 100GHz is 1.0 mW/cm². Where f = frequency in MHz.

The power density formula is given by:

 $P_d = (P_{out}*G) / (4*pi*R^2)$

Where,

 P_d = Power density in mW/cm² P_{out} = Conducted output power to antenna in mW G = Numeric Antenna Gain Pi = 3.1416 R = Separation distance in cm

MPE Calculation: 920.0 – 927.35 MHz FHSS transmitter

The FHSS transmitter has a maximum conducted (Average) output power of 10.75dBm or 11.89mW and an antenna gain of 1.5dBi or 1.41 numerically. For a distance of 20cm, the power density is:

$$\begin{split} P_d = (11.89mW * 1.41) \ / \ (4 * 3.1416 * (20cm)^2) \\ P_d = 0.0047 \ mW/cm^2 \end{split}$$

The device passes the requirement. The calculated power density of 0.0047 mW/cm² is below the (920.0/1500) = 0.613 mW/cm² limit.

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