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Maximum Permissible Exposure Evaluation

FCC ID: 2AYMH-P230F

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)

EUT Specification

Product Name:	electronic shelf label
Trade Mark:	Hanshow
Model/Type reference:	Polaris Pro-230F-N
Listed Model(s):	Polaris-230F-N
Frequency band (Operating)	2.4G: 2402MHz ~ 2480MHz
Device category	<input checked="" type="checkbox"/> Portable (<5mm separation) <input type="checkbox"/> Mobile (>20cm separation) <input type="checkbox"/> Fixed (>20cm separation) <input type="checkbox"/> Others ____
Antenna Diversity	<input checked="" type="checkbox"/> Single antenna <input type="checkbox"/> Multiple antennas <input type="checkbox"/> Tx diversity <input type="checkbox"/> Rx diversity <input type="checkbox"/> Tx/Rx diversity
Antenna Gain (Max)	-1.4dBi

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**Measurement Result**

$$\text{eirp} = \text{pt} \times \text{gt} = (\text{E} \times \text{d})^2 / 30$$

where:

pt = transmitter output power in watts,

gt = numeric gain of the transmitting antenna (unitless),

E = electric field strength in V/m, --- $10^{((\text{dBuV/m})/20)/10^6}$

d = measurement distance in meters (m), --- 3m

$$\text{So pt} = (\text{E} \times \text{d})^2 / (30 \times \text{gt})$$

2480MHz Field strength = 83.92 dBuV/m @3m

Ant gain = -1.4dBi, Ant numeric gain = 0.72

$$\text{So pt} = \{[10^{(83.92/20)/10^6} \times 3]^2 / (30 \times 0.72)\} \times 1000 \text{ mW} = 0.1 \text{ mW}$$

Per § 1.1307(b)(3)(i)(A), a single RF source is exempt RF device if the available maximum time-averaged power is no more than 1 mW, regardless of separation distance.

*****THE END*****