December 3, 2015

Equipment Authorization Division
Federal Communications Commission
7435 Oakland Mills Road
Columbia, MD 21046

FCC ID: 2AD7T11115110402

Product Name: Sonitor Sense Tag-H100, Tag-H112, Tag-H120, Tag-H121, Tag-H122, Tag-H130, Tag-H135, Tag-H140, Tag-H150.

Model difference letter

All models utilize **the same radio module and the same antenna**. All models send data to the infrastructure by using 802.11 broadcast messages, as described in the RF duty cycle analysis.

Tag-H100 and Tag-H112 have identical hardware. They are the simplest tags in the family, only able to receive ultrasound ID information. These models have their own main PCB design.

Models Tag-H120…H150 share the same main PCB. The model differences are small, different models come with different sensor assembled (see Table 1.).

The different PCB designs are similar and the radio module is used in the same way in all models. The distance between the antenna and human body is the same for all models because they all share one enclosure design.

The RF duty cycle calculations are based on worst-case sending pattern and hence cover the different models.

Model	Ultrasound receiver	125kHz low frequency receiver	WiFi	Accelerometer	Tamper detection	Internal temperature sensor	Special function
Tag-H100	x		x				
Tag-H112	x		x				
Tag-H120	x	x	x				
Tag-H121	x	x	x				
Tag-H122	x	x	x	x			
Tag-H130	x	x	x		x		
Tag-H135[1]		x	x				External cable input, binary data.
Tag-H140	x	x	x			x	
Tag-H150[1]		X	X				External humidity and temperature sensor
[1]Models come with an externa cable input that utilizes the connector that in other models is used to connect the ultrasound receiver module to the main board. For this reason the models are not able to detect ultrasound. They are not intended to be used as person tags, but persons must be allowed to be as close of them as they need to.							

Figure 1 Tag-H family model differences

Sincerely,

Hanna Luukkonen

December 3, 2015

Hanna Luukkonen
Senior QA and Test Engineer

Date

On behalf of Sonitor Technologies AS