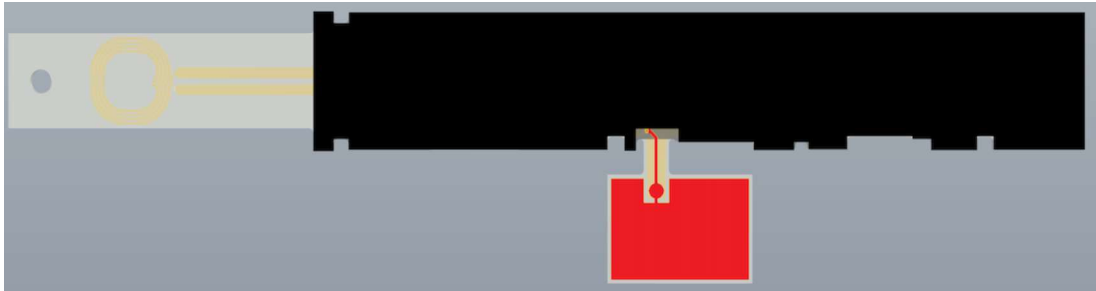


Antenna data information OA11 HWID 02

The product under certification's board has an integrated antenna marked as red



BLE antenna position in the product marked as red rectangle. The antenna is bent towards the outer cover.

There are a total of 12 different product sizes with different antenna gain as below table:

Ring size	Antenna gain
4	-13,1 dBi
5	-11,2 dBi
6	-10,5 dBi
7	-10,5 dBi
8	-11,3 dBi
9	-11,1 dBi
10	-11,1 dBi
11	-10,9 dBi
12	-10,5 dBi
13	-10,6 dBi
14	-10,8 dBi
15	-10,5 dBi



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RESULTS:
BLE Total Radiated Power size 15
Free Space

Band info	Bandwidth (MHz)	Uplink Channel	Frequency (MHz)	TRP (dBm)
BLE	CW	37	2402	-13,4
	CW	38	2426	-13,3
	CW	39	2480	-13,3

Band info	Bandwidth (MHz)	Uplink Channel	Frequency (MHz)	EIRP (dBm)
BLE	CW	37	2402	-11,0
	CW	38	2426	-13,4
	CW	39	2480	-13,4

Antenna patterns:

Antenna Pattern – Total Radiated Power

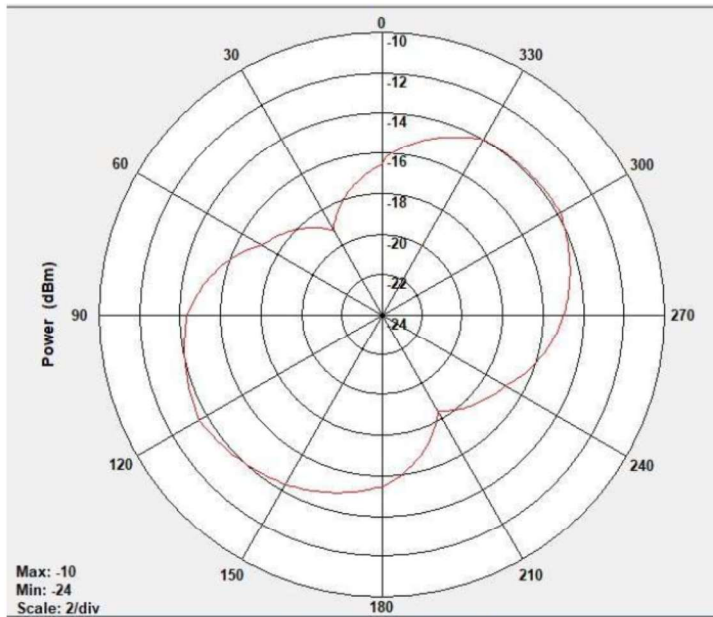


Figure 1. Antenna Pattern BLE Channel 37.

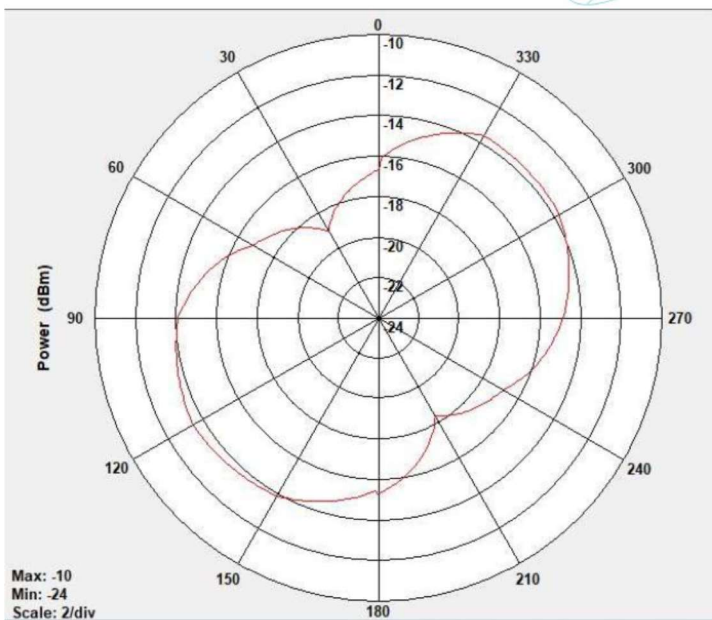


Figure 2. Antenna Pattern BLE Channel 38.

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