

Manufacturer: SHENZHEN HAOHUALIANHE TECHNOLOGY CO., LTD  
Address: 701、801, Building 4, No. A3, 4th Industrail Park, Heshuikou  
Community, Gongming Street, Guangming District, Shenzhen

**Model Number: A31ANT**



Bluetooth Antenna  
specification&Test report

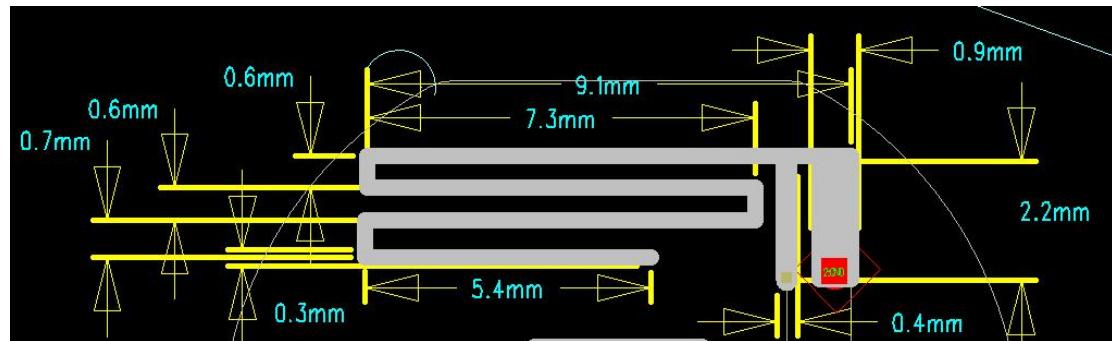
Yichip Microelectronics

©2014

Test Company	TA Technology (Shanghai) Co., Ltd.
Test Address	Building 1, No. 400, Fangchun Road, China (Shanghai) Pilot Free Trade Zone
Test Date	2020/7/24
Test Instrument	Keysight E5071B

## antenna design specification

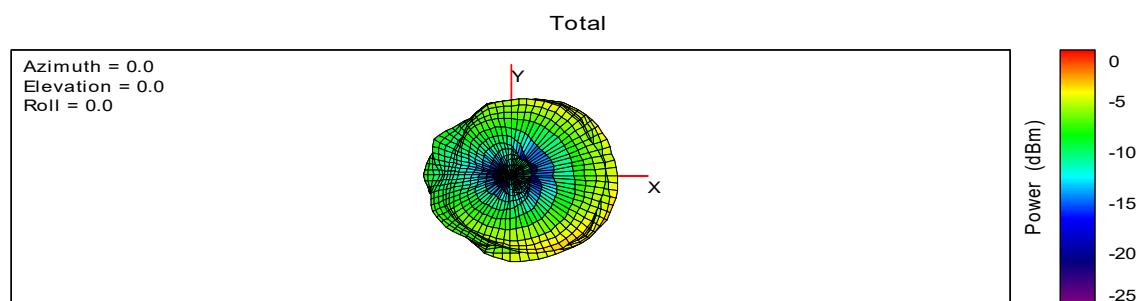
Antenna dimensions as blow picture show: the material is FR4 and the thickness is 1.6mm of PCB.



## Gain and Efficiency

Frequency (MHz)	Efficiency(%)	Gain(dBi)
2402	<b>14.86</b>	<b>-0.93</b>
2420	<b>12.54</b>	<b>-1.17</b>
2440	<b>9.92</b>	<b>-2.03</b>
2460	<b>7.46</b>	<b>-2.47</b>
2480	<b>6.11</b>	<b>-2.98</b>

## 3D and 1D Radiation Patterns



2440M TRP 1