

# BT Antenna Information

## 1.1 Antenna Assembly Specifications

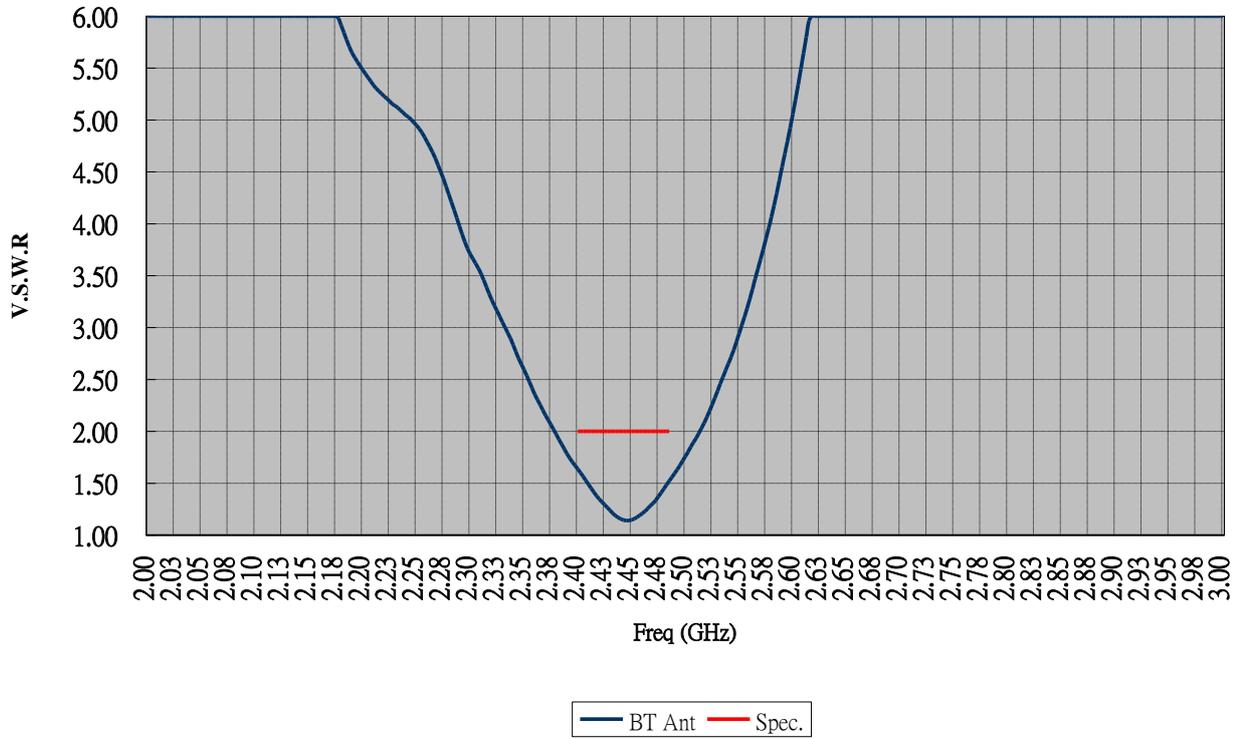
1A Antenna Part Number	1B Manufacture	1C Antenna Type	1D Cable Assembly Part Number and Information	1E Peak Gain W/ Cable Loss (dBi)
<b>(P/N:WDAN-SPM9F005-1F)</b>	<b>HON HAI PRECISION IND CO.,LTD</b>	<b>PIFA</b>	<b>PN: 703-3200-513[32AWG(O.D:1.13)] 50 ohm Coaxial Connector P/N: SGX0001-00</b>	<b>2400-24835MHz 1.10 dBi (peak)</b>

## 1.2 Antenna Peak Gain Table

	XY-Plan		XZ-Plan		YZ-Plan	
Frequency (MHz)	Horizontal (dBi)	Vertical (dBi)	Horizontal (dBi)	Vertical (dBi)	Horizontal (dBi)	Vertical (dBi)
2400	-3.26	-4.16	-2.56	0.40	-0.38	-3.44
2442	-2.51	-2.13	-2.77	0.58	0.44	-3.99
24835	-3.34	-1.40	-3.16	1.10	0.55	-4.03

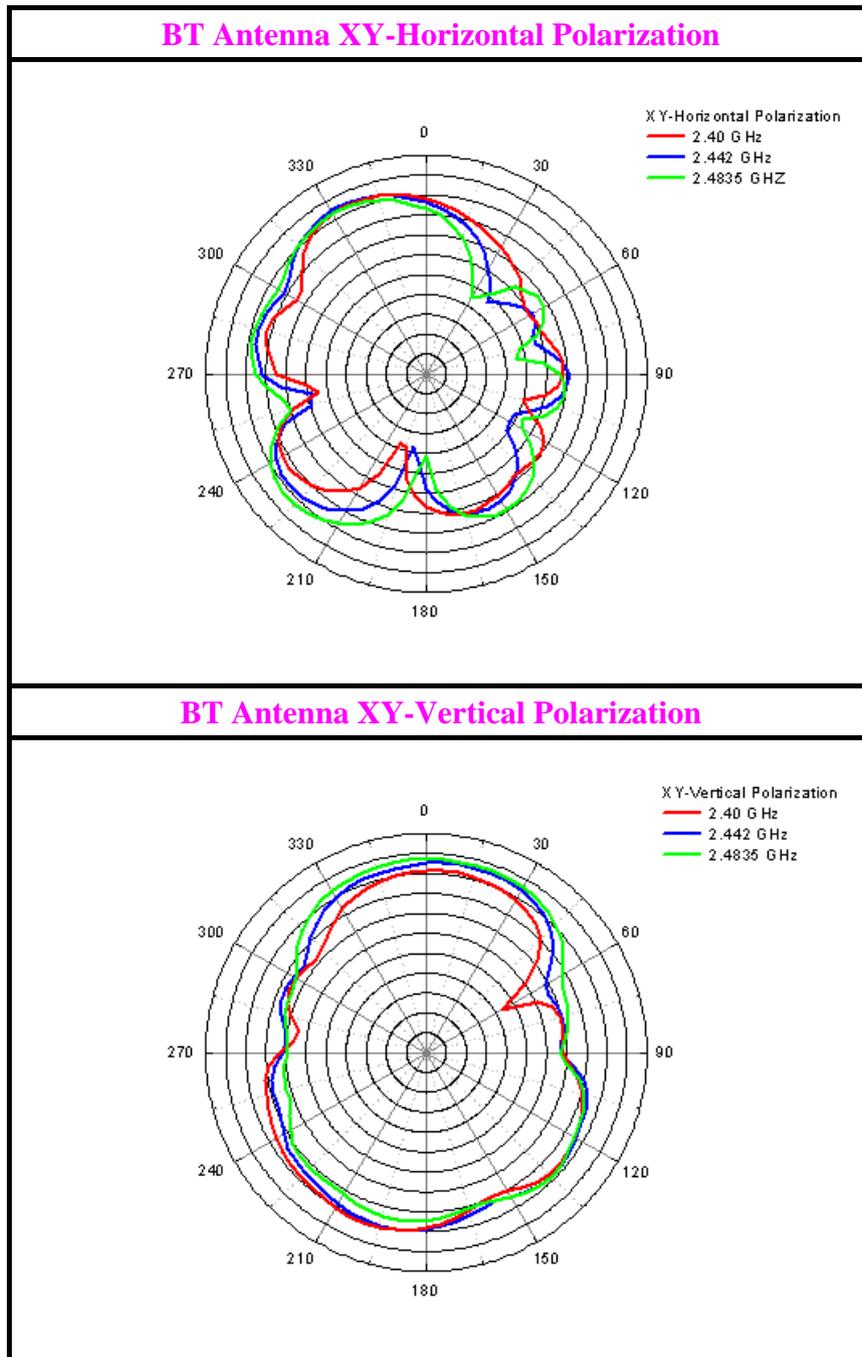
## 2. BT antenna VSWR

### Bluetooth antenna



Marker Point (GHz)	2.400	2.442	2.4835
BT Antenna VSWR Value	1.64	1.15	1.52
Specification	2.0:1	2.0:1	2.0:1

### 3.1 BT Antenna Radiation Pattern Diagram @ 2.4GHz~2.4835GHz



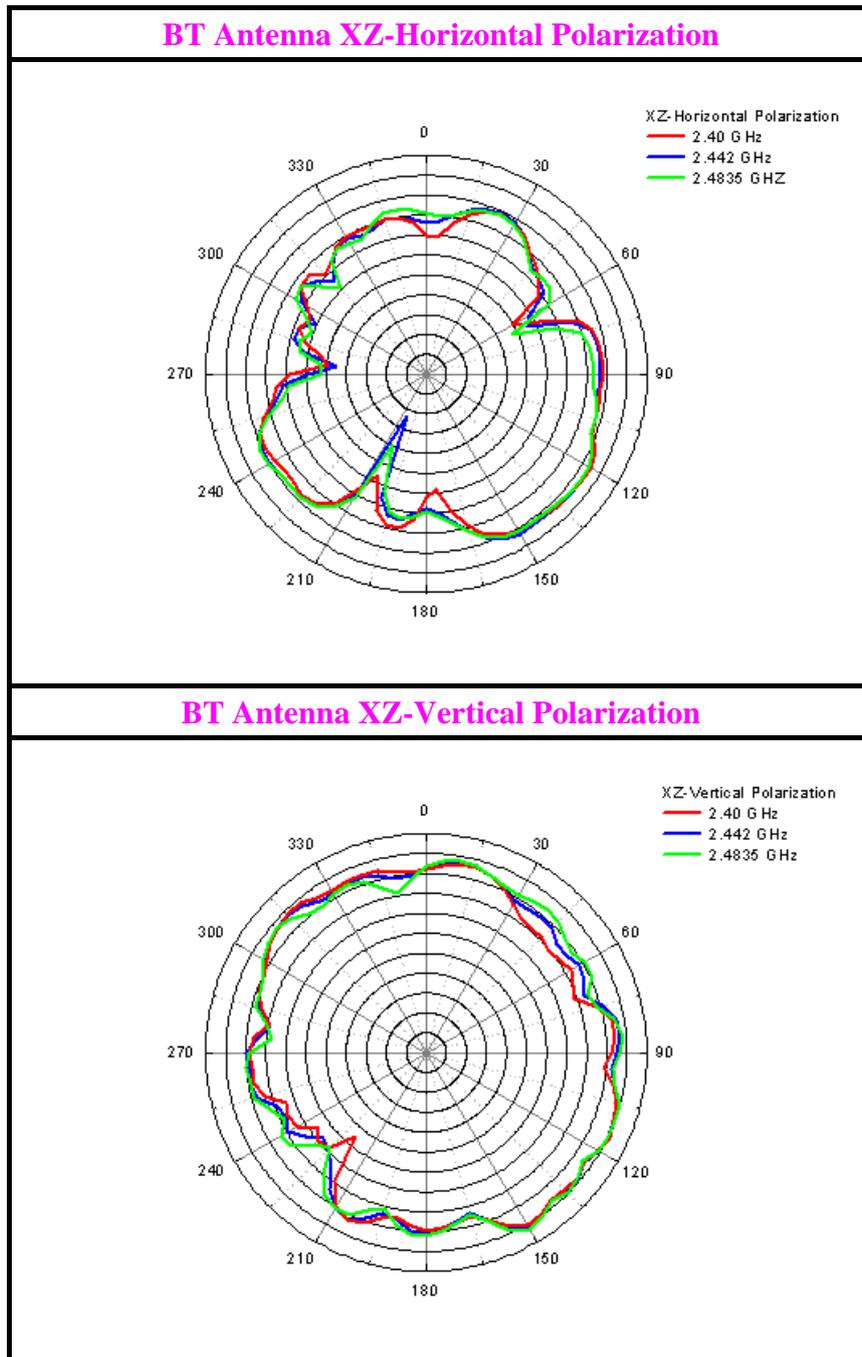
**BT Antenna XY-Plane Average Gain**

Freq (GHz)	2.40	2.442	2.4835
<b>XY-H (dBi)</b>	<b>-7.76</b>	<b>-6.68</b>	<b>-6.31</b>
<b>XY-V (dBi)</b>	<b>-10.33</b>	<b>-9.33</b>	<b>-8.70</b>
<b>Average Gain</b>	<b>-5.85</b>	<b>-4.80</b>	<b>-4.33</b>

**BT Antenna XY-Plane Peak Gain**

Freq (GHz)	2.40	2.442	2.4835
<b>XY-H (dBi)</b>	<b>-3.26</b>	<b>-2.51</b>	<b>-3.34</b>
<b>XY-V (dBi)</b>	<b>-4.16</b>	<b>-2.13</b>	<b>-1.40</b>

### 3.2 BT Antenna Radiation Pattern Diagram @ 2.4GHz~2.4835GHz



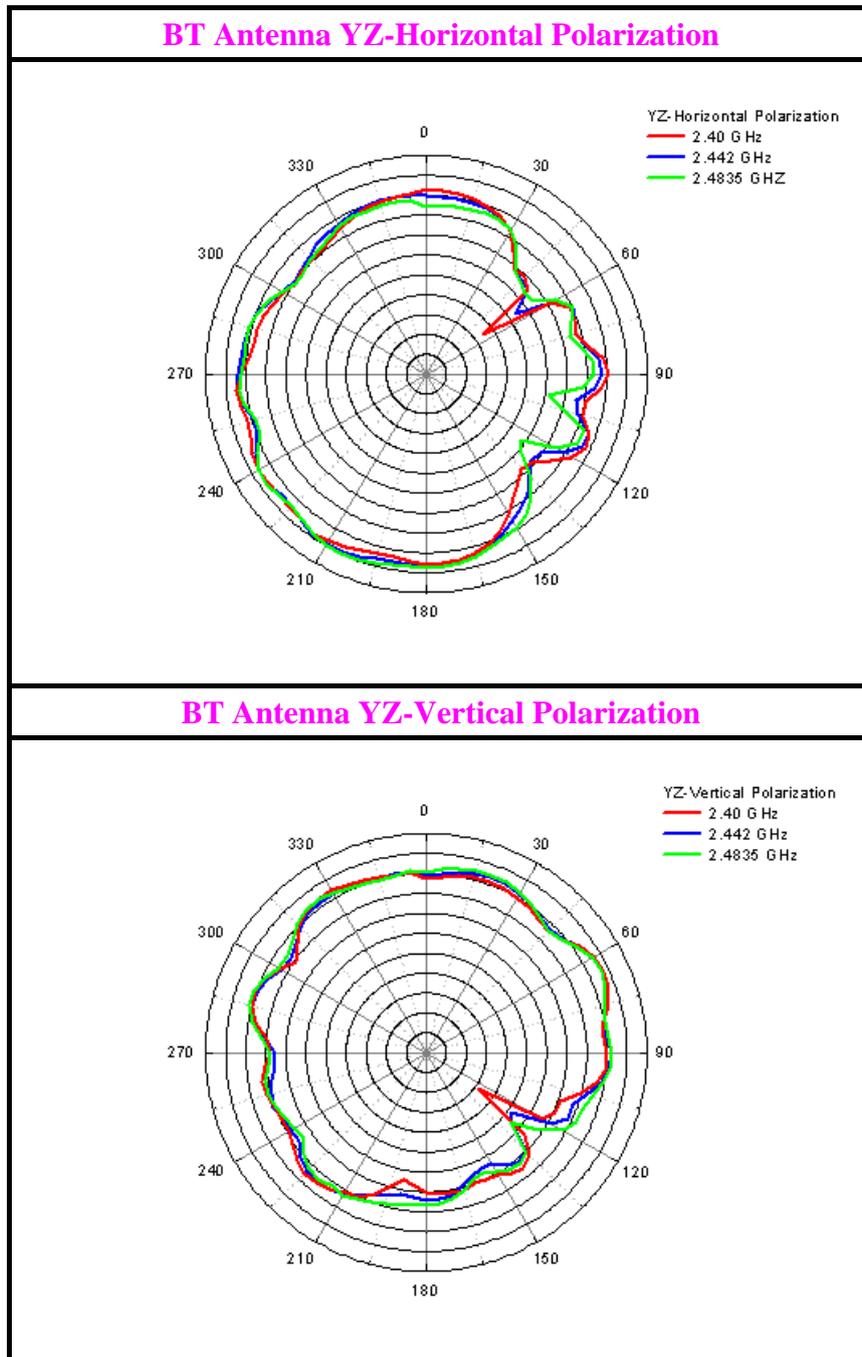
**BT Antenna XZ-Plane Average Gain**

Freq (GHz)	2.40	2.442	2.4835
<b>XZ-H (dBi)</b>	<b>-8.32</b>	<b>-8.06</b>	<b>-8.33</b>
<b>XZ-V (dBi)</b>	<b>-4.19</b>	<b>-3.89</b>	<b>-3.66</b>
<b>Average Gain</b>	<b>-2.77</b>	<b>-2.48</b>	<b>-2.39</b>

**BT Antenna XZ-Plane Peak Gain**

Freq (GHz)	2.40	2.442	2.4835
<b>XZ-H (dBi)</b>	<b>-2.56</b>	<b>-2.77</b>	<b>-3.16</b>
<b>XZ-V (dBi)</b>	<b>0.40</b>	<b>0.58</b>	<b>1.10</b>

### 3.3 BT Antenna Radiation Pattern Diagram @ 2.4GHz~2.4835GHz



**BT Antenna YZ-Plane Average Gain**

Freq (GHz)	2.40	2.442	2.4835
<b>YZ-H (dBi)</b>	<b>-5.36</b>	<b>-4.68</b>	<b>-4.50</b>
<b>YZ-V (dBi)</b>	<b>-8.15</b>	<b>-8.45</b>	<b>-8.59</b>
<b>Average Gain</b>	<b>-3.52</b>	<b>-3.16</b>	<b>-3.07</b>

**BT Antenna YZ-Plane Peak Gain**

Freq (GHz)	2.40	2.442	2.4835
<b>YZ-H (dBi)</b>	<b>-0.38</b>	<b>0.44</b>	<b>0.55</b>
<b>YZ-V (dBi)</b>	<b>-3.44</b>	<b>-3.99</b>	<b>-4.03</b>

#### 4. BT antenna drawing and Photo

