

# Pulse Chip Antenna Measurement for QSI\_BT5XLCANI01 Project DVT

Wireless Components  
LTCC R&D

September 20, 2023



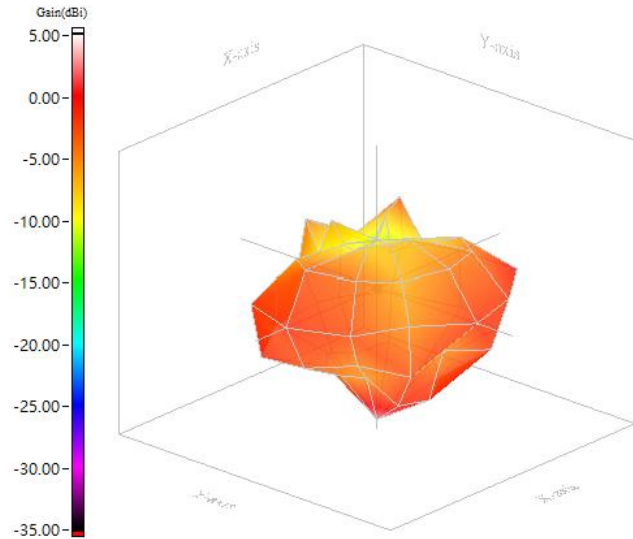
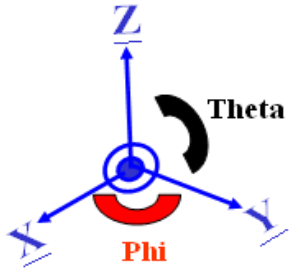
Pulse (Suzhou) Wireless Product Co., Ltd.  
No.99 Huoju Road, New District, Suzhou, China  
[www.yageo.com](http://www.yageo.com)

- **Customer : QSI**
- **Project Name : BT5XLCANI01 (DVT)**
- **Application : BT module**
- **Antenna size :**  
**5.0x1.0x1.0(mm) 2.4GHz chip antenna(ANT5010LL04R2400A)**
- **Peak Gain : 2.5 dBi**
- **Avg. Gain : -3.9 dB**
- **Report date : 2023/09/20**
- **Version : 1**

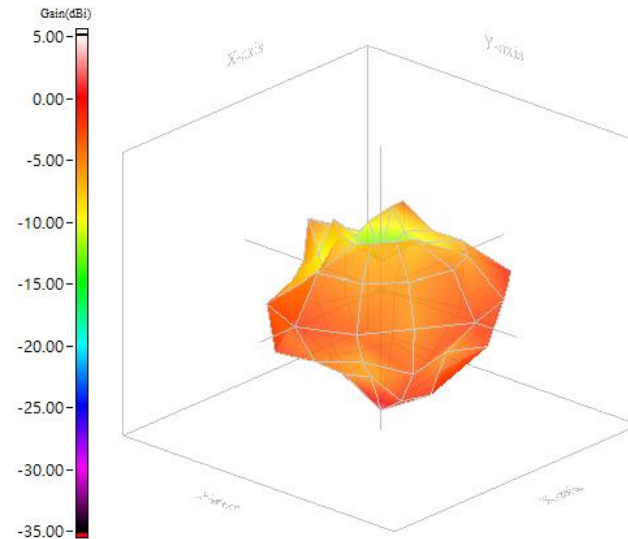
| Condition       | BT5XLCANI01_DVT                                     |       |      |
|-----------------|-----------------------------------------------------|-------|------|
| Antenna         | PULSE 5010 2.4 GHz Chip antenna (ANT5010LL04R2400A) |       |      |
| Frequency (MHz) | 2400                                                | 2442  | 2484 |
| R.L. (dB)       | -16.1                                               | -12.8 | -8.4 |
| Max. Gain (dBi) | 2.5                                                 | 2.3   | 2.1  |
| Avg. Gain (dB)  | -3.9                                                | -4.3  | -4.7 |
| Efficiency (%)  | 40.7                                                | 37.2  | 33.5 |



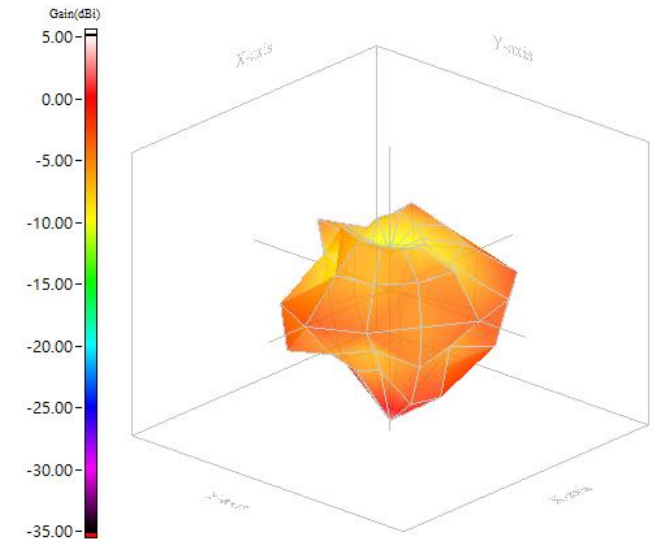
# Radiation Pattern (3D)



**2400MHz**



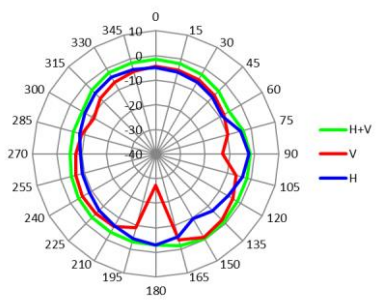
**2442MHz**



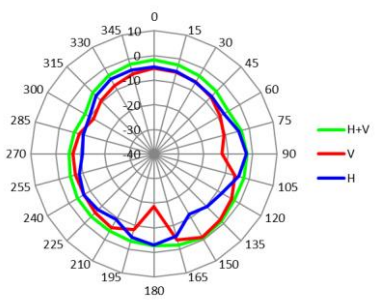
**2484MHz**

# Radiation Pattern (2D)

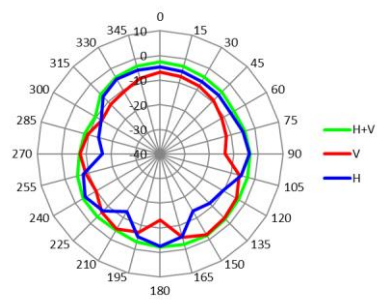
XY-Plane



2400MHz

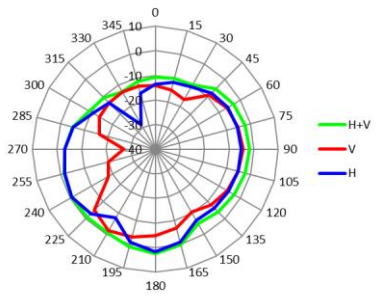


2442MHz

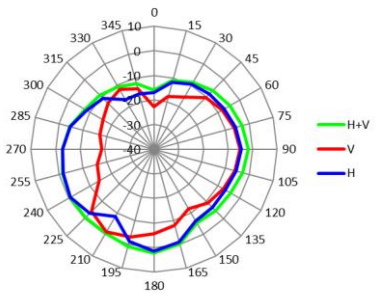


2484MHz

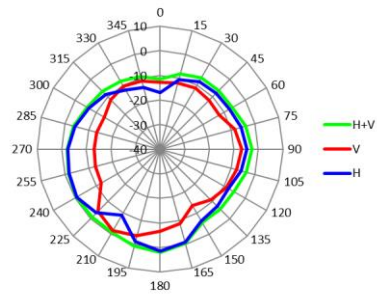
XZ-Plane



2400MHz

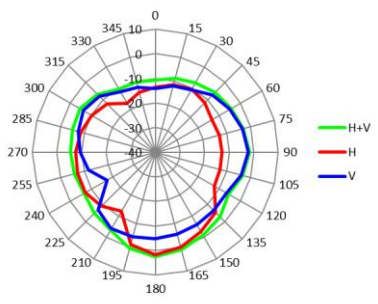


2442MHz

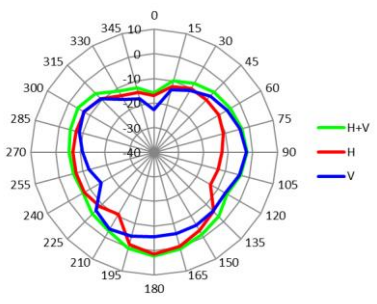


2484MHz

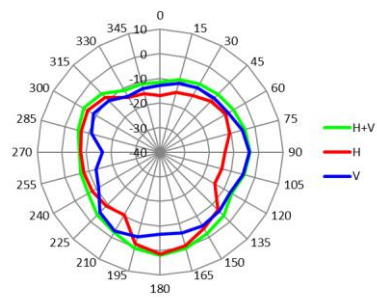
YZ-Plane



2400MHz



2442MHz



2484MHz

# Thank You

