



**ONE PLUS ONE**  
Wireless Communication

深圳市一加一无线通讯技术有限公司

# 承认书

## APPROVAL SHEET

客户 Customer	<b>益沃</b>
项目名 Project	<b>W03</b>
料号 Part NO.	
规格 Specification	<b>BT Antennas</b>

APPROVAL			
OnePlusOne:			
RF Check	ME Check	QC Check	Confirm By
Customer:			
EE Check	PM Check	QC Check	Confirm By

承认签章后请寄回承认书一份

Please return to us one copy of "APPROVAL SHEET" with your approved signatures

Project: W03	Author: Haiou.Zhu	File Name: W03_APP_A.doc
Date: 2024-07-10		
Revision:	A	
<b>CONFIDENTIAL</b>		
Shenzhen OnePlusOne Wireless Communication Technology Co.,Ltd.		

Date:	Revision:	Updates and changes:	Issued by:
2024.07.10	A	Initial sheet	Haiou.Zhu

# 1 Antenna description

It summarize BT antennas for project W03. BT antenna's frequency band is 2400-2500MHz. BT antenna's type is IFA

## 1.1 Part number

Part number of antenna: W03-BT

Antennapictures



# 2 Electrical Performance

## 2.1 Specification

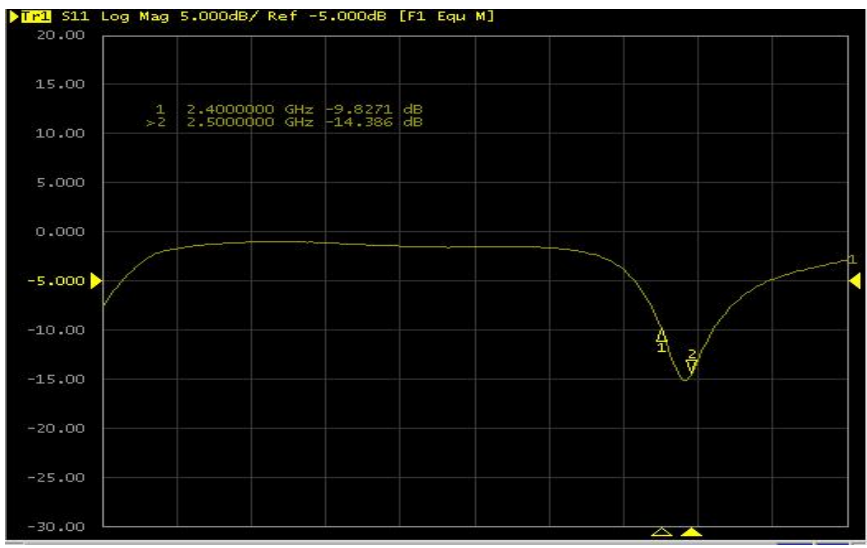
BT	
Frequency Range	2400MHz~2500MHz
Return Loss	<-5 >25%
Efficiency	

## 2.2 Measurement Set-up

### VSWR and Return Loss

VSWR measurements ( $S_{11}$ ) were performed using an Agilent ENA series Network Analyzer and the previously described test fixture. Coaxial chokes were used to mitigate surface currents on the outside of the cabling. The testing was performed in free space.

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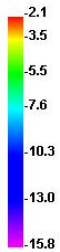
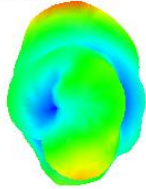


### 3 Reference measurement data

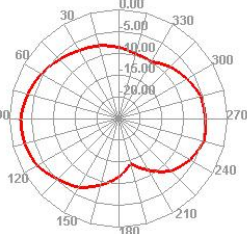
#### Active

Passive Test For BT3.0			
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	22.96	-6.39	-2.12
2410	21.2	-6.74	-2.7
2420	22.61	-6.46	-2.48
2430	20.74	-6.83	-2.73
2440	23.18	-6.35	-2.45
2450	20.81	-6.82	-2.67
2460	24.63	-6.08	-1.87
2470	20.37	-6.91	-3.12
2480	24.28	-6.15	-2.01
2490	20.2	-6.95	-2.78
2500	22.22	-6.53	-2.57

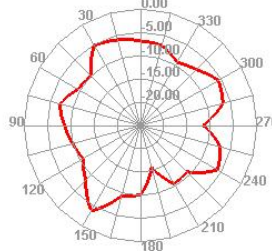
2400.000MHz



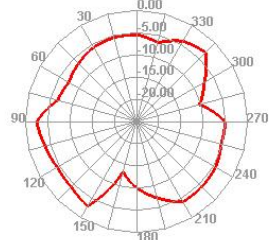
2400.000MHz H



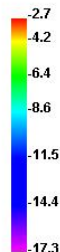
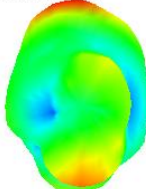
2400.000MHz E1



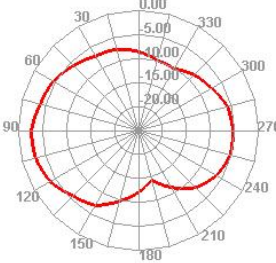
2400.000MHz E2



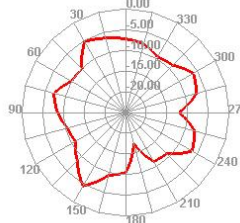
2410.000MHz



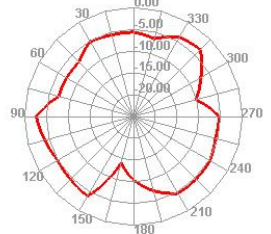
2410.000MHz H



2410.000MHz E1



2410.000MHz E2



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