



## OTA Test Report

### 1. Test Laboratory

#### 1.1 Test facility

GTS1800 Microwave Anechoic Chamber: testing frequency ranges from 600MHz to 5.8GHz.

#### 1.2 Testing Location

Company: Welletronics technology Co.,Ltd.

Adress: BeijingYizhuang economic and Technological Development Zone Six Jing Neng Meng Valley A502

Contact: Lixiong.Ding

Telephone: 15910383532

E-mail: [bjrf1@wtt-china.com](mailto:bjrf1@wtt-china.com)

#### 1.3 Laboratory enviroment

Temperature	Min=19° C, Max=25°
Relative humidity	Min=40%, Max=72%
Ground resistance	<0.5 Ω

### 2. General Description of Equipment under Test

#### 2.1 Manufacturer

Manufacturer Name	ONTIM Technologies Ltd.
Manufacturer address	Floor 3, gate 2, zone A, Zhaowei Industrial Park, Jiuxianqiao street, Chaoyang District, Beijing

#### 2.2 General information

Product Name	Shadow(TA-1573)
HW Version	V1.0
Antenna Type	FPC
Antenna Manufacturer	Welletronics technology Co.,Ltd.
Test Frequency	600MHz-2700MHz



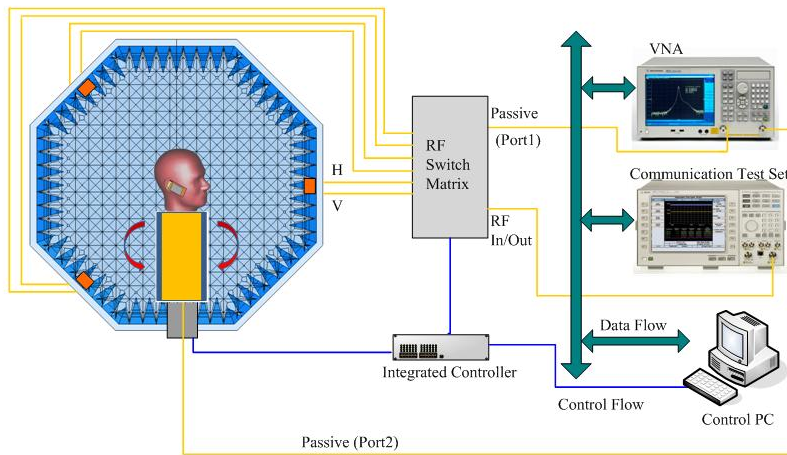
# OTA Test Report

## 3. Test Conditions

### 3.1 Test Configuration

The method is used to measure the antenna 3D GAIN of EUT in OTA qualified anechoic chamber. Equipment Under Test(EUT) geometry vertical projection at the center of platform, the distance from EUT to measurement antenna is 1m.

### 3.2 Test Measurement



## 4. Test Results

### 4.1 Antenna Max. Peak Gain

ANT1: -1.24dBi

ANT2: -3.69 dBi

ANT3: -0.91dBi

ANT4: -1.78dBi

ANT5: -0.86dBi

ANT6: -0.15dBi

ANT7: -2.1dBi (2.4G) -0.5dBi (5G)



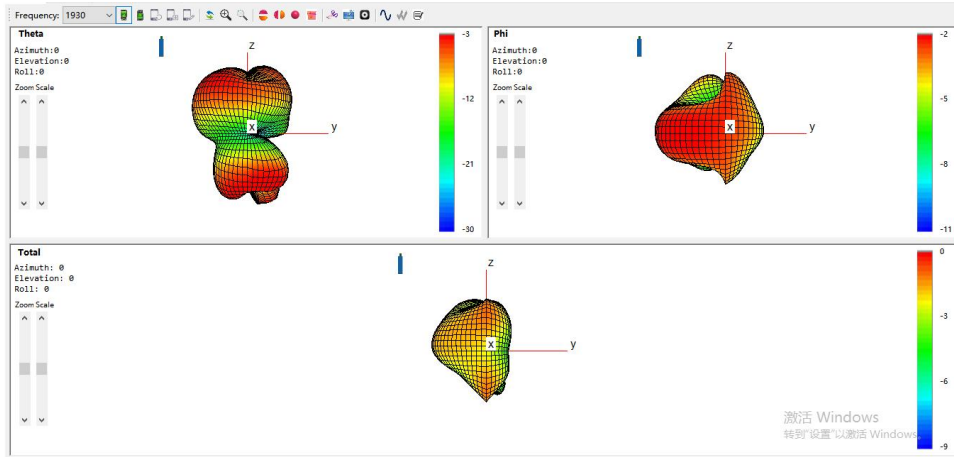
# OTA Test Report

ANT8: 1.02dBi

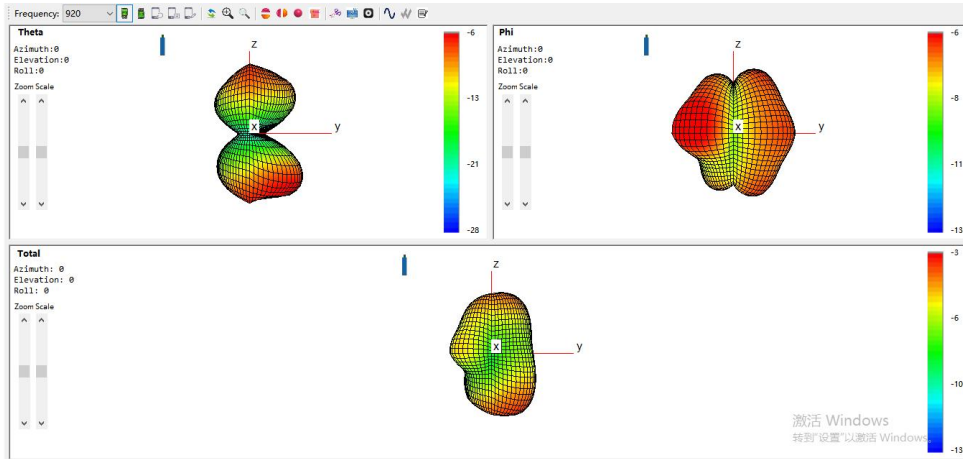
ANT9: -1.91dBi

## 4.2 Simple Antenna Pattern Plot

1). ANT1



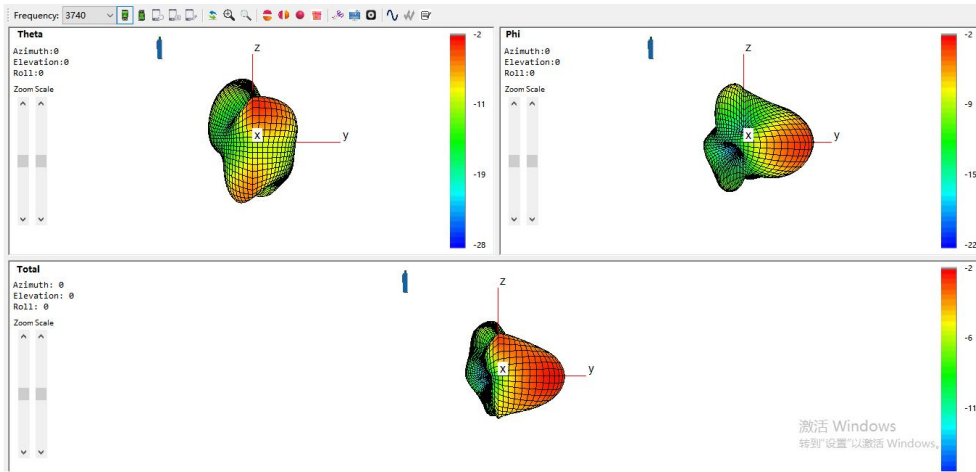
2). ANT2



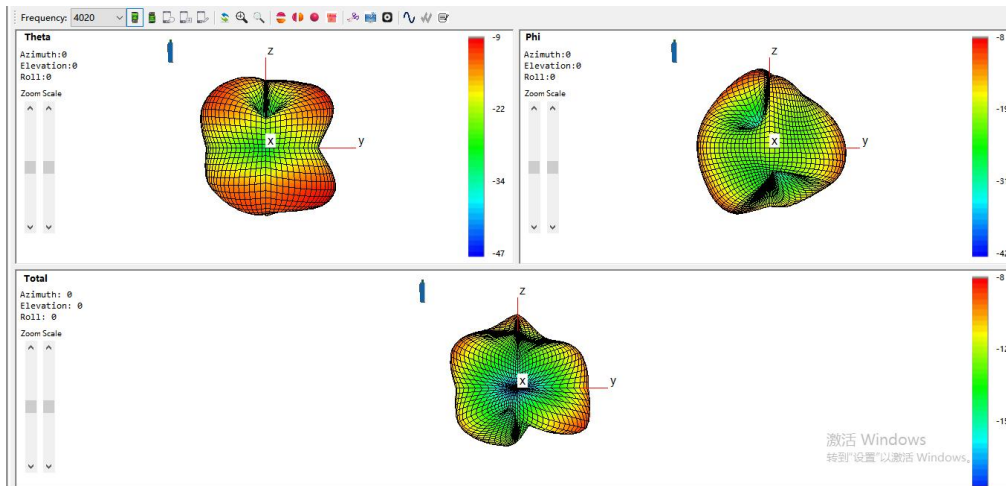
3). ANT3



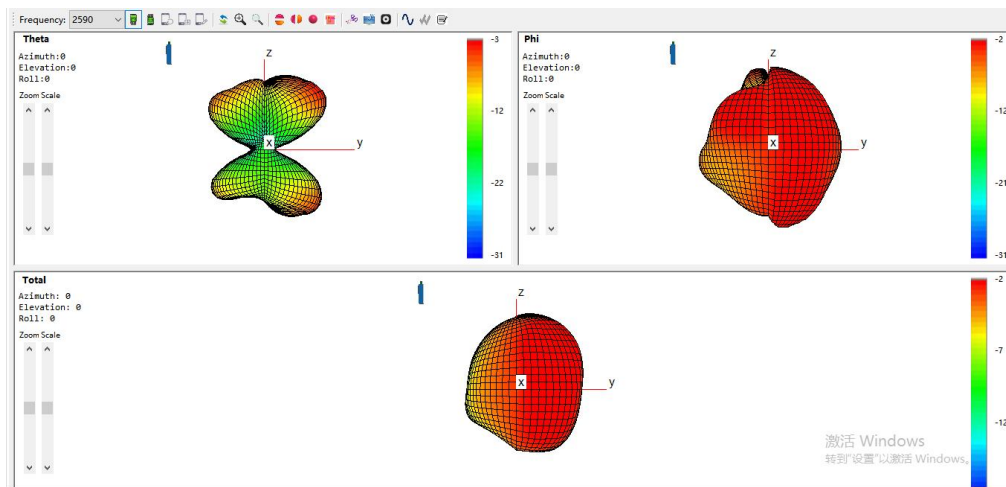
# OTA Test Report



## 4). ANT4



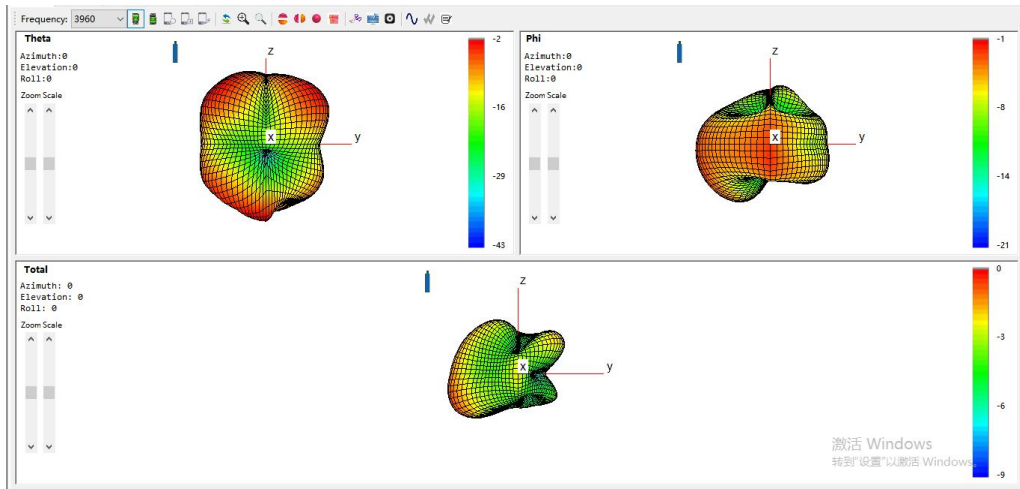
## 5). ANT5



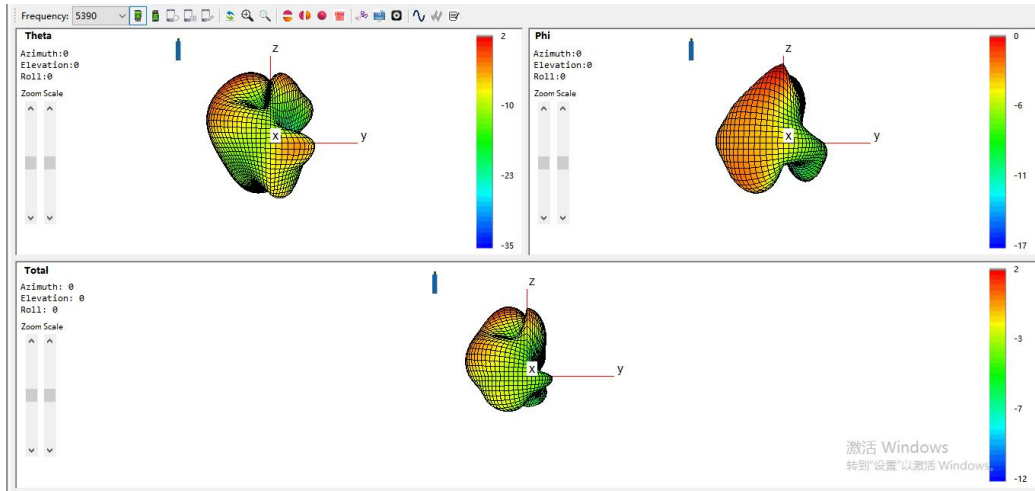
## 6). ANT6



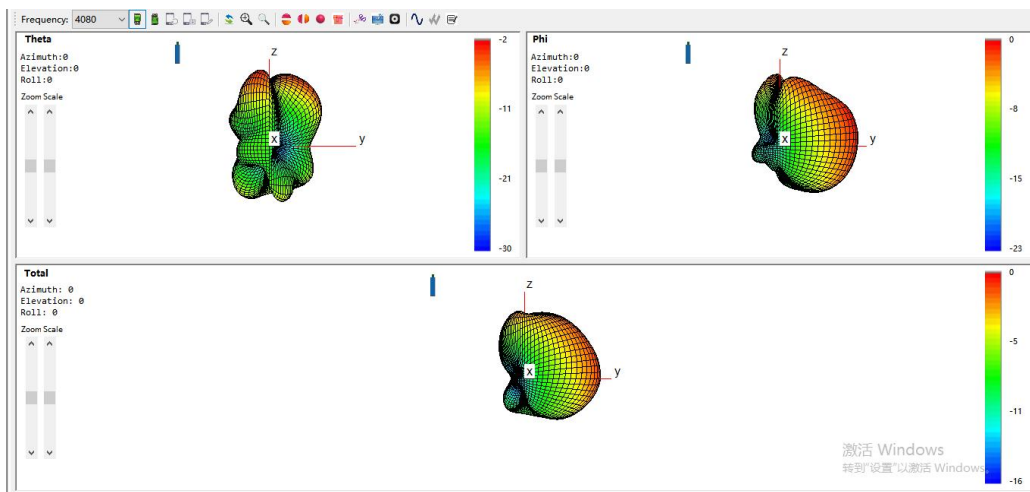
# OTA Test Report



## 7). ANT7



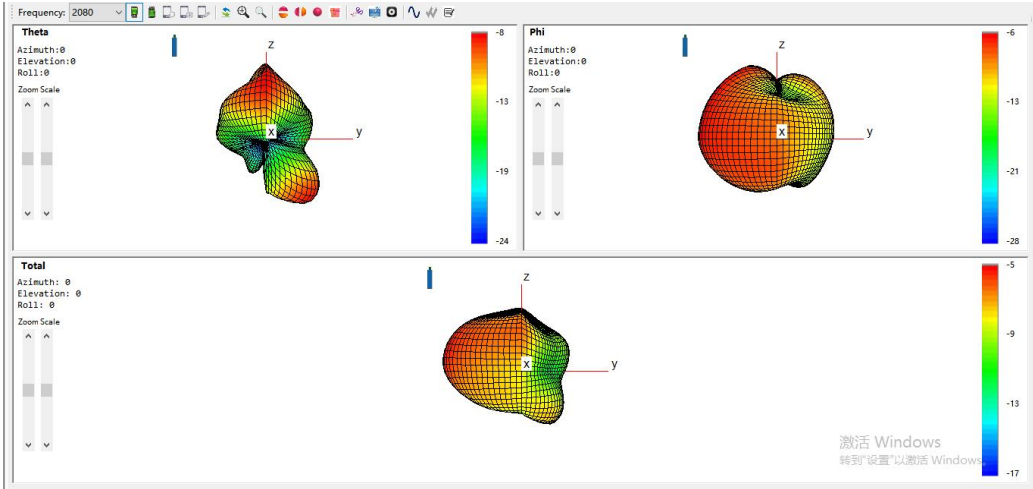
## 8). ANT8



## 9). ANT9



# OTA Test Report



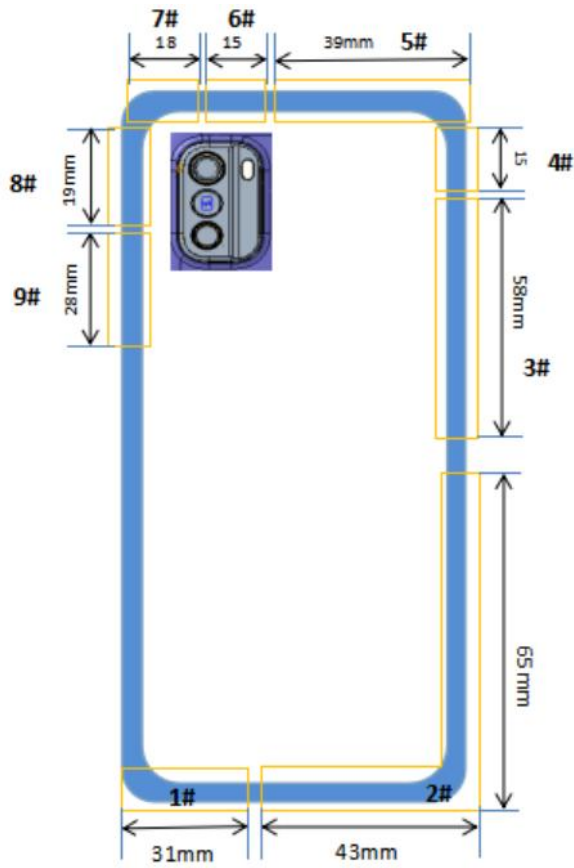
## 5. Equipment List

Type of Equipment	Manufacture
Network Analyzer	Agilent
Switch control System	GTS
Software	GTS

EUT Apperance(Antenna location)



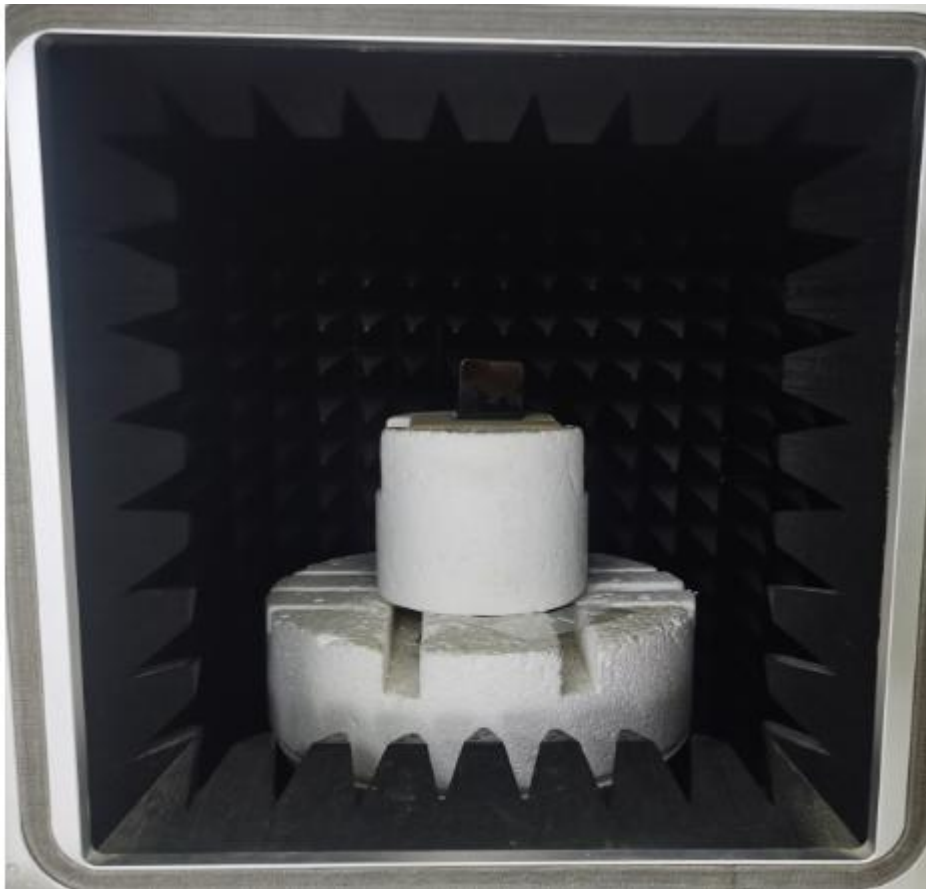
# OTA Test Report



Test Configuration



# OTA Test Report



## 6. Antenna location and Band information

ANT7  
WIFI 2.4G/5G

ANT6  
N 77\_TRX  
GPS L1

ANT5  
GSM850 900 1800 1900 DRX  
W1/2/4/5 DRX  
LTE 1/2/3/4/5/7/8/12/13/17/20 DRX  
25/26/38/39/40/41/66/71 DRX  
N 25/41/66/71 DRX

ANT4  
LTE 7/38/40/41 DRX\_MIMO  
N 77 PRX\_MIMO  
N 41 DRX\_MIMO

ANT3  
LTE B1/2/3/4/25/66 PRXMIMO  
N 25/66 PRX\_MIMO  
N 77 DRXMIMO

ANT1  
GSM1800/1900 TRX  
W1/2/4 TRX  
LTE1/2/3/4/25/39/66 TRX  
LTE 7/38/40/41 PRX MIMO  
NR 25/66 TRX  
NR 41 PRX MIMO

ANT2  
GSM 850/900 TRX  
W 5 TRX  
LTE 5/8 /12/13/17 /20/26/71 TRX  
NR 71 TRX

ANT8  
LTE 7/38/40/41 TRX  
NR 41 TRX  
N 77 DRX

ANT9  
LTE1/2/3/4/25/66 DRX MIMO  
N 25/26 DRX MIMO