

### Feature

- Base station antennay
- N-Type Plug
- Plastic Case of GRAY
- RoHS compliance

### Application

- 5.8G Wireless Communication
- WLAN device, WLAN Router, e.g., AP, PIC Wireless Card

### Description

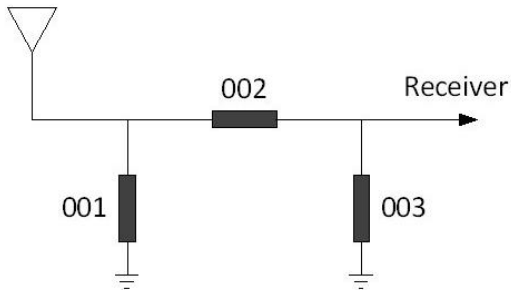
The antenna for 5.8G Directional Antenna applications .  
It has excellent stability and sensitivity to consistently provide high signal reception efficiency.

### General Data

<b>Product Name</b>	DR5G17-90D
<b>Frequency Range</b>	5.15~5.85GHz
<b>V.S.W.R</b>	≤2.0
<b>Gain (dBi)</b>	≤ 17dBi
<b>Polarization</b>	Horizontal,Vertical
<b>BW_3dB (deg)</b>	50,8
<b>Term of validity</b>	One year
<b>Storage Temp</b>	-10℃~+70℃
<b>Operating Temperature</b>	-10℃~+60℃
<b>Connector</b>	N-TYPE
<b>Impedance with Matching</b>	50 Ω
<b>Weight</b>	1200g
<b>Dimension</b>	L239*H132.5*B62.34(mm)

### Typical Electrical Characteristics

- Recommend Matching Circuit



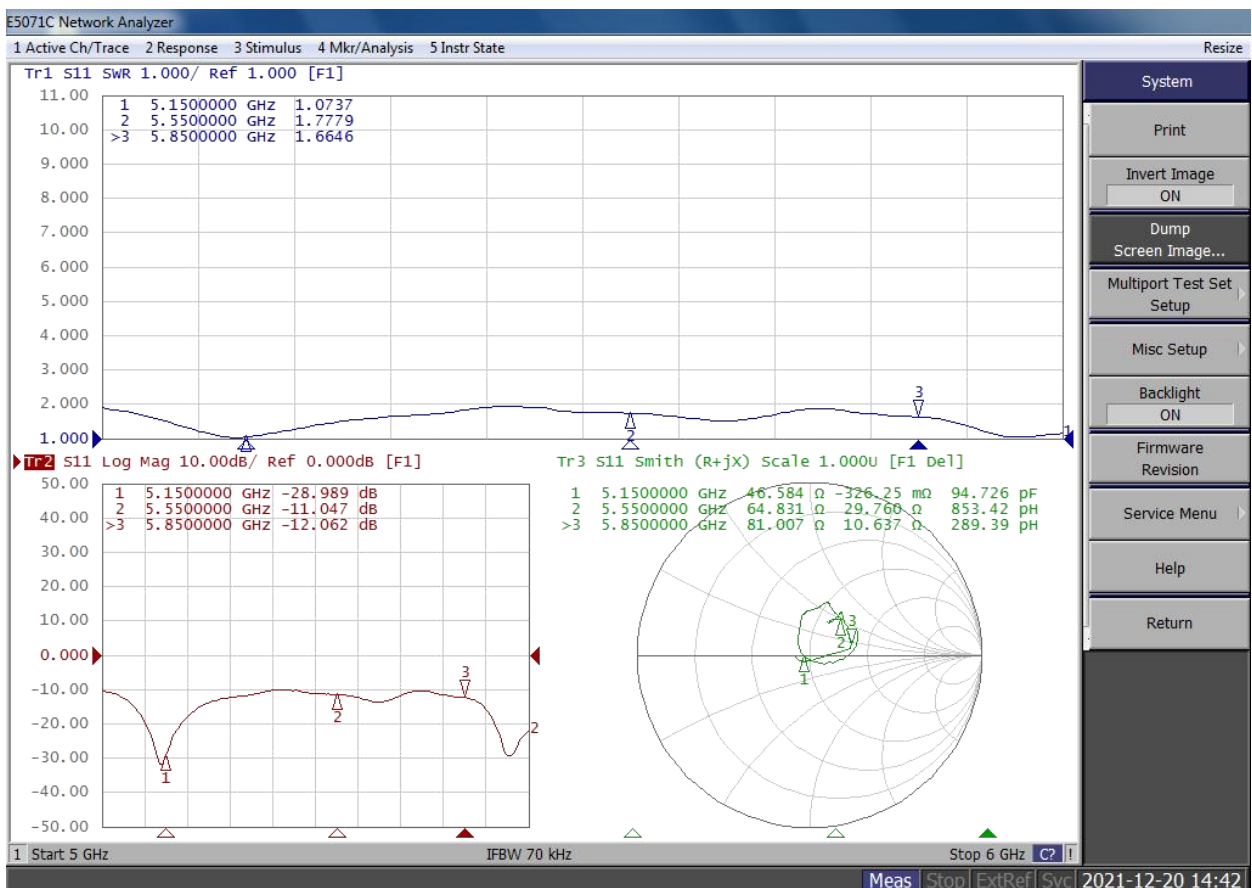
Reference:

001=(N/A)

002=0Ω

003=(N/A)

- Return loss、VSWR& Smith chart



### 5G1 Frequency Total Data

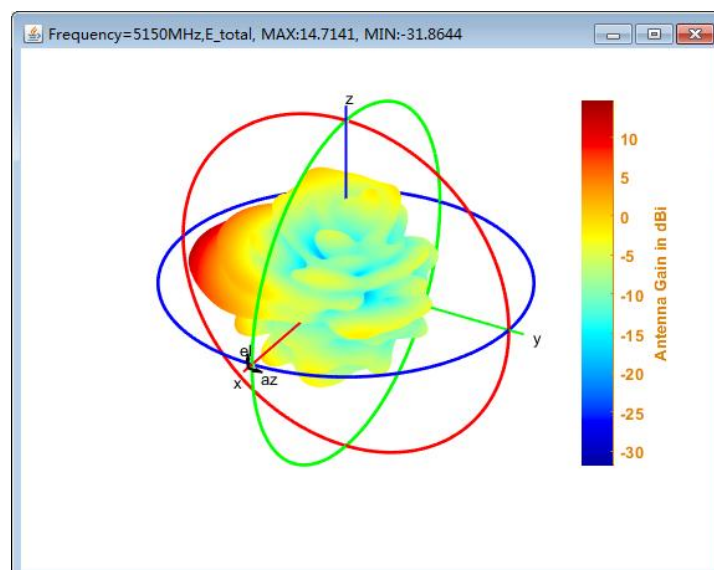
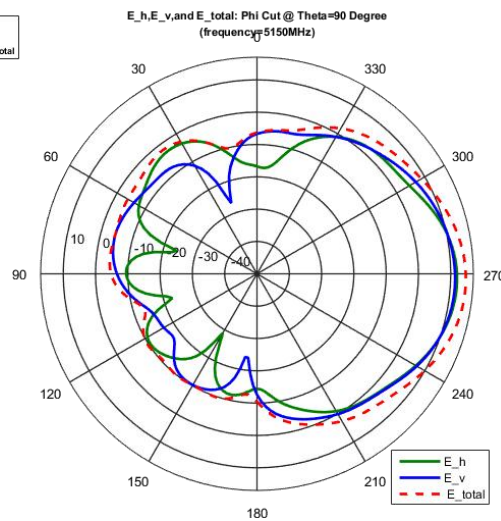
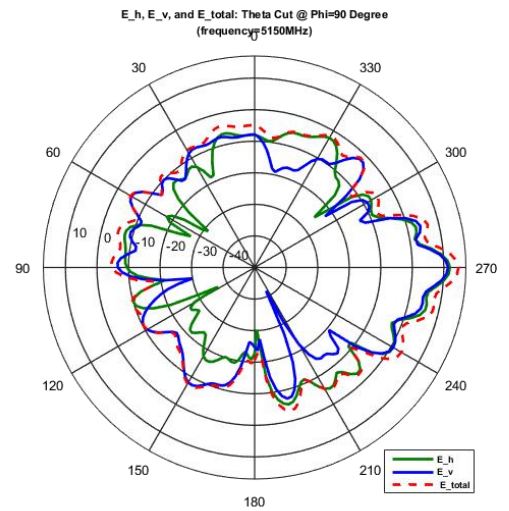
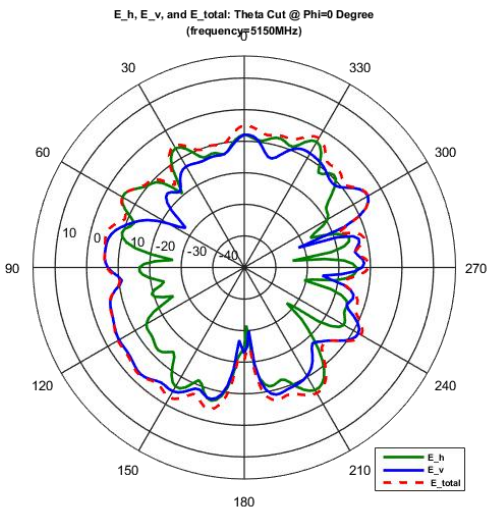
Frequency (MHz)	Directivity (dB)	Gain (dB)	Efficiency (dB)	Efficiency (%)	phi90° BW_3dB (deg)	theta90° BW_3dB (deg)
5150	16.4996	14.7141	-1.7855	66.2904	9.4286	42.7555
5200	16.6995	14.7413	-1.9582	63.7058	9.3588	42.2399
5250	16.8472	15.1874	-1.6599	68.2355	9.3032	41.343
5300	16.8623	15.3538	-1.5085	70.656	9.264	40.8393
5350	16.8904	15.7335	-1.1569	76.6149	9.202	40.8133
5400	16.9349	15.7689	-1.166	76.4543	9.122	40.7041
5450	16.9822	15.909	-1.0731	78.1062	9.0693	40.5605
5500	17.0826	15.9466	-1.136	76.9832	8.8992	40.5706
5550	17.1011	15.9562	-1.1449	76.8264	8.865	40.9321
5600	17.1413	16.1749	-0.9664	80.0498	8.8366	41.6678
5650	17.2348	16.2149	-1.0198	79.0706	8.825	41.7744
5700	17.3494	16.1672	-1.1823	76.1683	8.8185	41.2799
5750	17.4503	16.2927	-1.1576	76.6016	8.8278	40.6847
5800	17.5477	16.3283	-1.2194	75.5205	8.8094	40.3274
5850	17.6409	16.2636	-1.3773	72.8235	8.7627	40.2014

### 5G2 Frequency Total Data

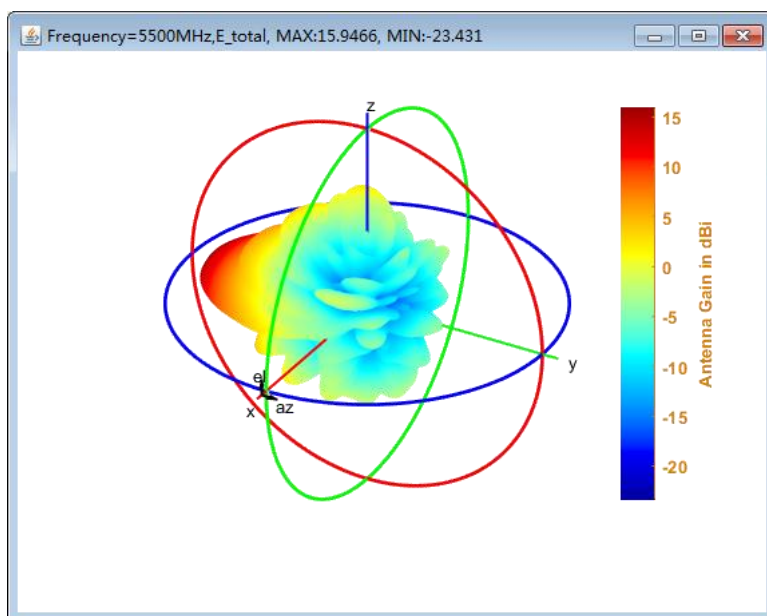
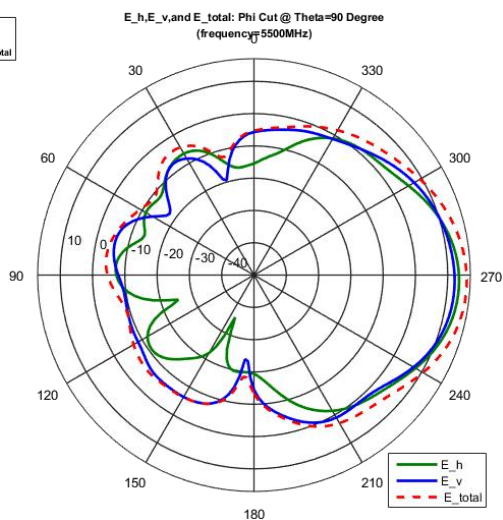
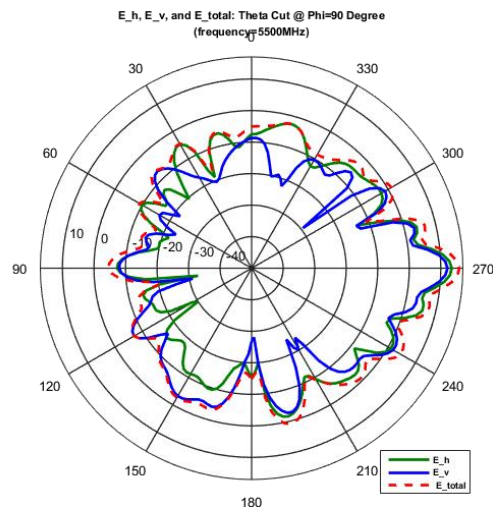
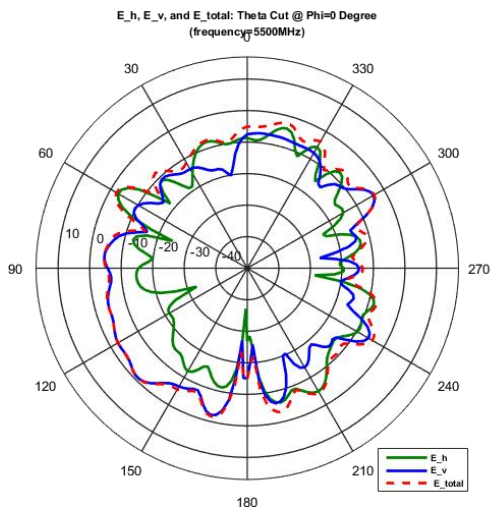
Frequency (MHz)	Directivity (dB)	Gain (dB)	Efficiency (dB)	Efficiency (%)	phi90° BW_3dB (deg)	theta90° BW_3dB (deg)
5150	16.2766	14.5484	-1.7282	67.1711	8.9768	46.3379
5200	16.5125	14.6206	-1.892	64.6848	8.954	45.0074
5250	16.6891	14.9652	-1.7239	67.2376	8.9289	44.3381
5300	16.7801	15.1109	-1.6692	68.0895	8.8902	44.4863
5350	16.8743	15.5788	-1.2954	74.2089	8.8244	44.4598
5400	16.9427	15.6827	-1.26	74.8167	8.7719	44.4586
5450	16.9787	15.8836	-1.0951	77.7118	8.713	44.3418
5500	17.0163	15.9	-1.1163	77.3344	8.5961	43.7357
5550	17.0202	15.9412	-1.079	78.0005	8.5912	43.3215
5600	17.0338	16.1571	-0.8767	81.72	8.5962	43.4913
5650	16.95	15.9254	-1.0246	78.9844	8.6161	44.4346
5700	16.8484	15.6195	-1.2289	75.3551	8.6149	44.4974
5750	16.7967	15.6293	-1.1674	76.4293	8.6143	43.6442
5800	16.7322	15.5079	-1.2243	75.4342	8.5938	43.1401
5850	16.6612	15.1921	-1.4691	71.3001	8.5614	43.0642

### 5G1 2D&3D test pattern

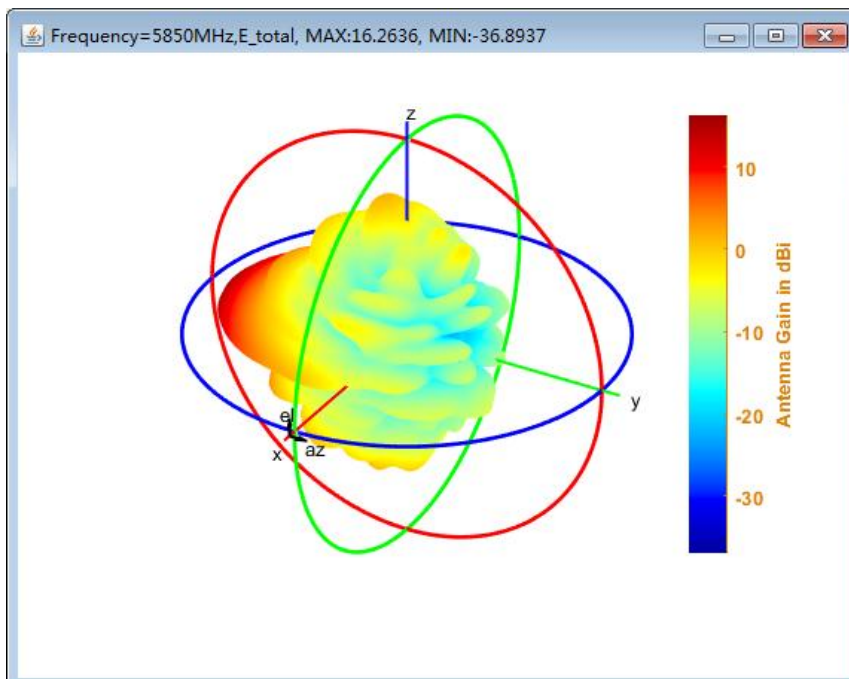
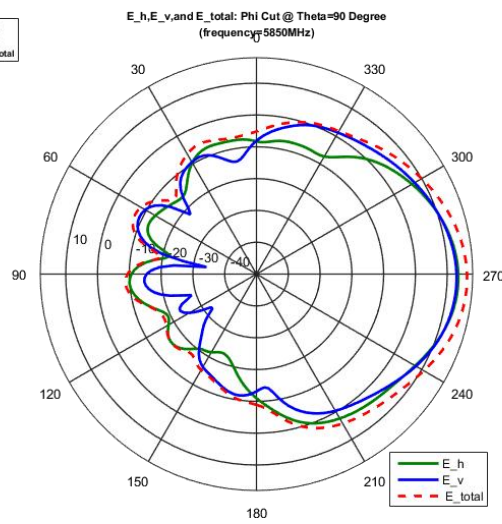
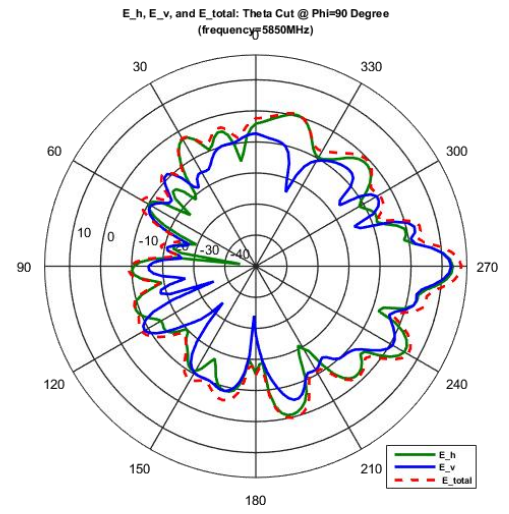
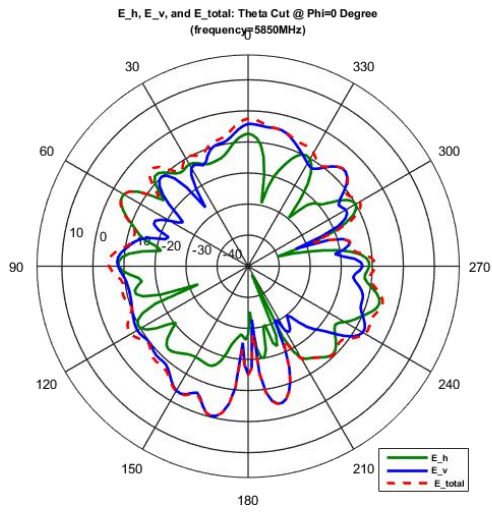
### 5150MHz



### 5500MHz

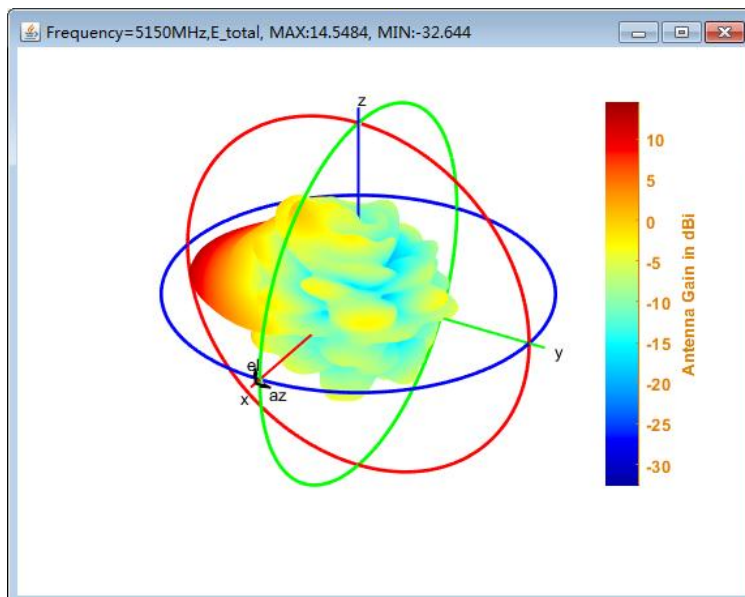
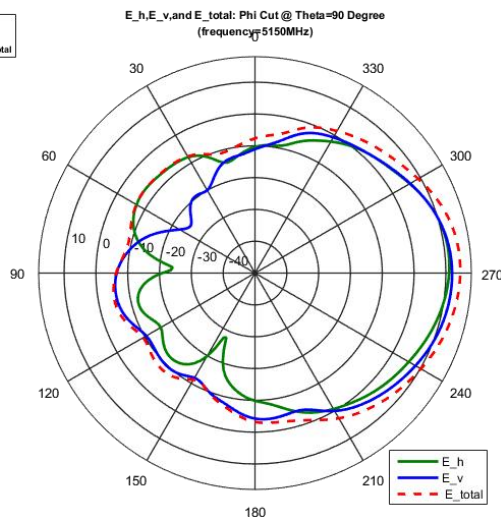
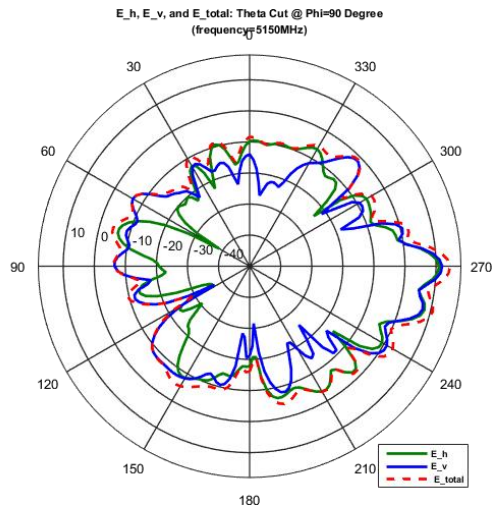
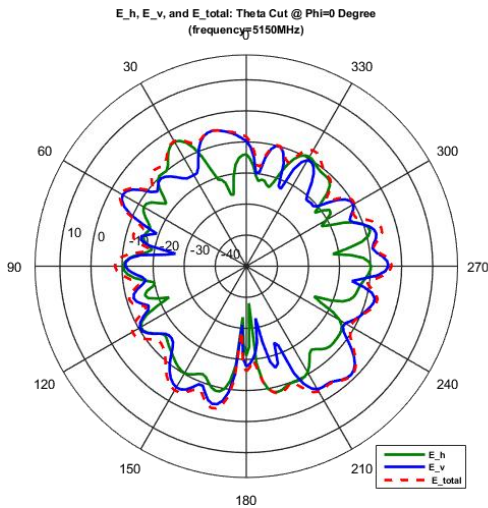


### 5850MHz

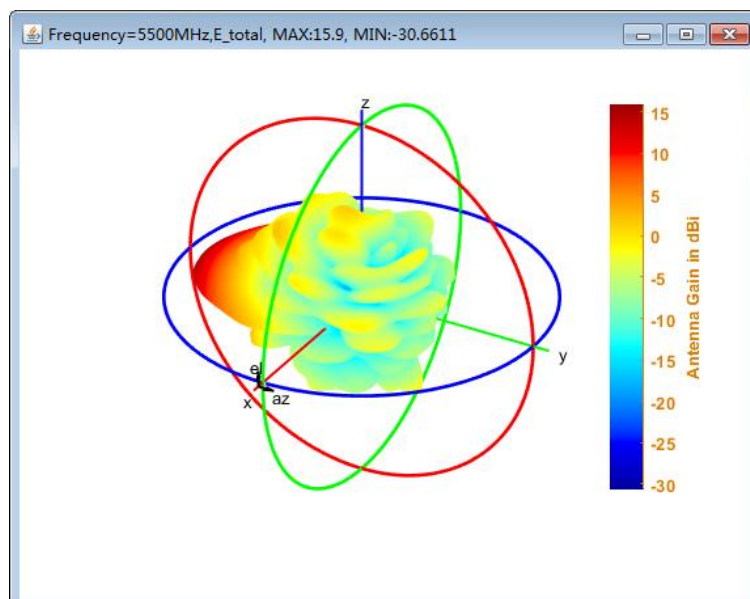
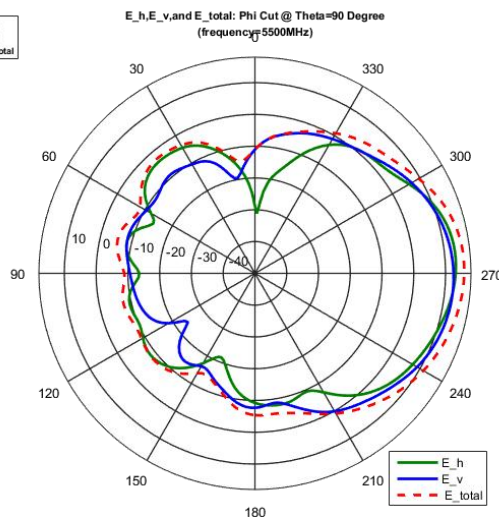
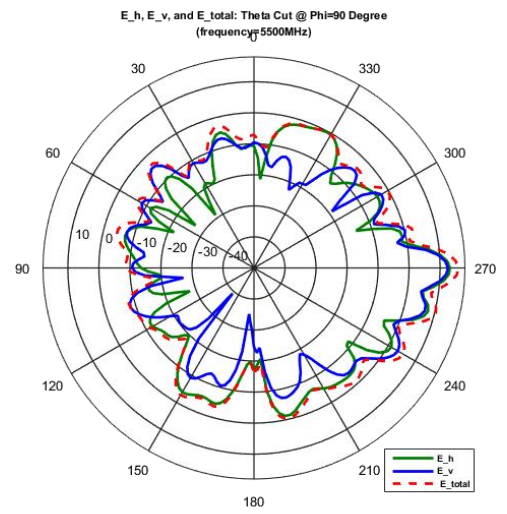
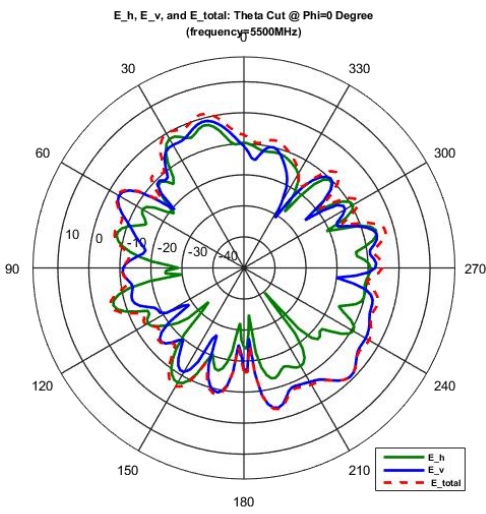


### 5G2 2D&3D test pattern

### 5150MHz



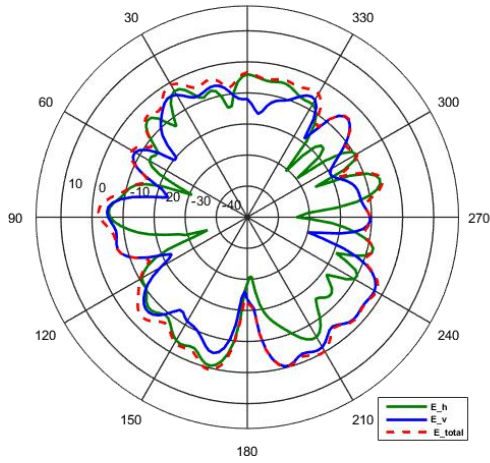
### 5500MHz



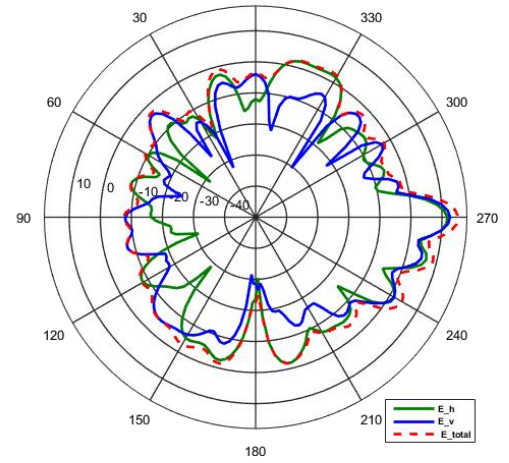


### 5850MHz

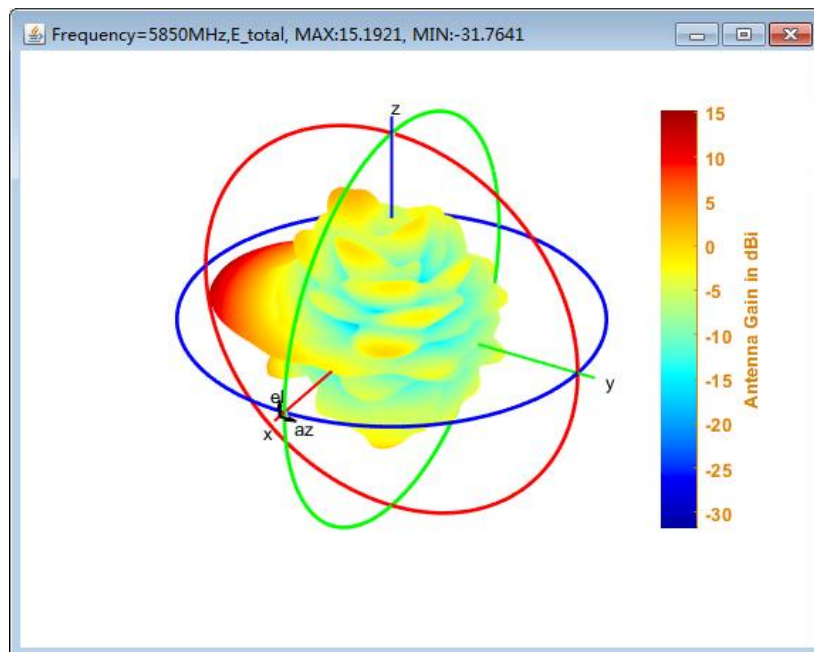
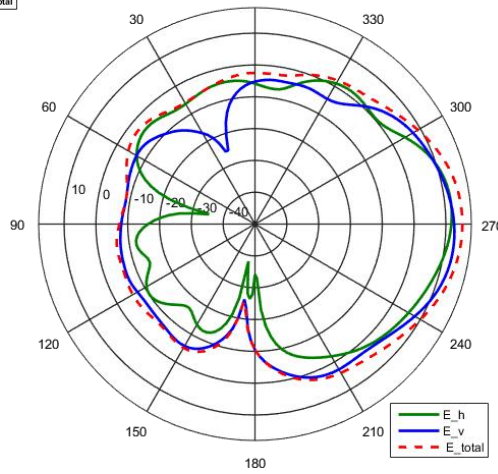
E\_h, E\_v, and E\_total: Theta Cut @ Phi=0 Degree  
(frequency=5850MHz)



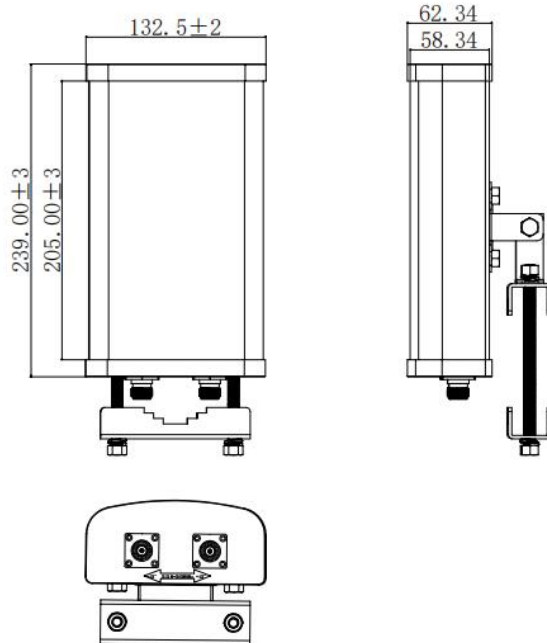
E\_h, E\_v, and E\_total: Theta Cut @ Phi=90 Degree  
(frequency=5850MHz)



E\_h, E\_v, and E\_total: Phi Cut @ Theta=90 Degree  
(frequency=5850MHz)



### Dimension



REV	DATE	DESCRIPTION
A0	12/20-2021	New Issue

#### SPECIFICATION

1. Frequency Range: 5.15-5.85GHz
2. Impedance: 50  $\Omega$
3. VSWR:  $\leq 2.0$
4. Radiation: Omni
5. Gain: 15dBi