

# Antenna specifications

## 1. General Information

### 1.1 General Information of testing institutions Multi-probe OTA Measurement System

## 2. Test System

Sequence Number	Test Item	equipment
S parameter	VSWR	Agilent 5071C & Agilent 5062A
OTA Test	TRP&TIS	CMW500 & CMW270 ETS&SATIMO
Gain & Efficiency	Gain & Efficiency	ETS&SATIMO Agilent 5071C



## 1.2 Test equipment

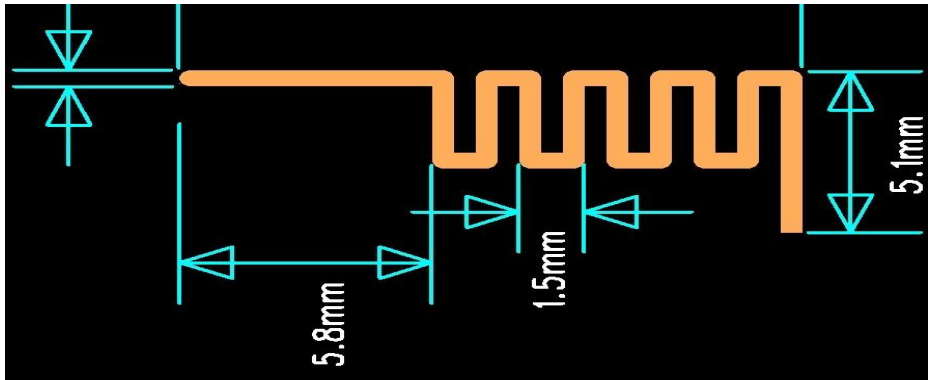
Equipment	Model No.	Serial No.	Manufacturer	Calibration date	Next calibration date
24 probe microwave chamber	4*3*3	NA	FEITU	2023.10.29	2024.1.31
Network Analyzer	5071C	NA	Agilent	2023.10.29	2024.1.31

## 1.3 Test environment

Temperature	24°C ± 1.5C
Humidity	45%RH
Pressure	101kPa

## 1.4

### Antenna Photo & Lenght(mm)

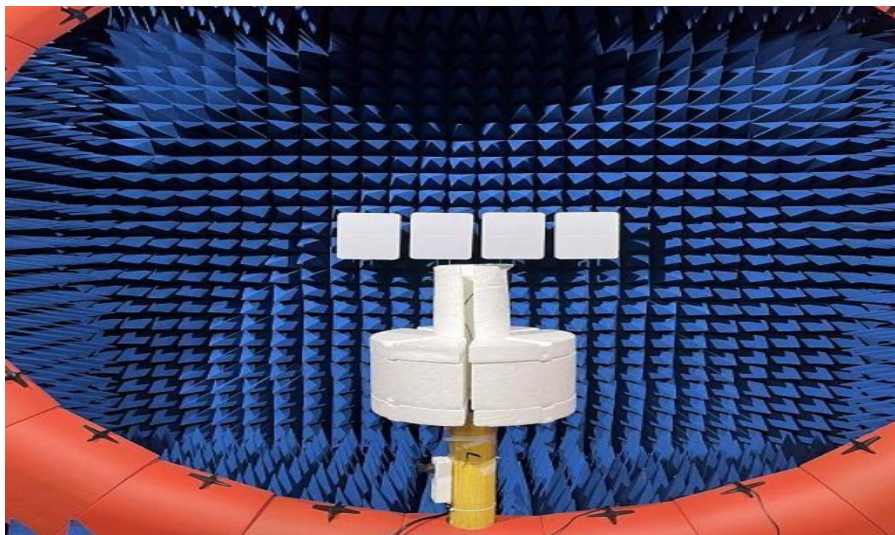


## 2. Sample Information

### 2.1 Client information

<b>Product Name</b>	PCB BT Antenna
<b>Sample Model</b>	ANT_2G4_1
<b>Antenna Size</b>	5.1*14.3mm
<b>Antenna Type</b>	PCB antenna
<b>Test Item</b>	Antenna Gain, Radiation pattern
<b>Frequency Range</b>	2400-2500MHz
<b>Received Date</b>	2023.12.1
<b>Test Date</b>	2023.12.1
<b>Remark</b>	The length of the RF cable is 50mm

### 2.2The test potos



TesData

Frequency ID	1	2	3	4	5	6	7	8	9	10	11
Frequency (MHz)	2400.0	2410.0	2420.0	2430.0	2440.0	2450.0	2460.0	2470.0	2480.0	2490.0	2500.0
Efficiency (dB)	-3.70	-3.54	-3.47	-3.32	-3.27	-3.24	-3.33	-3.40	-3.59	-3.76	-3.90
Gain (dBi)	0.86	0.36	0.68	0.85	0.87	0.88	0.77	0.48	0.28	0.25	0.37
Efficiency (%)	<b>42.62</b>	<b>44.27</b>	<b>44.99</b>	<b>46.55</b>	<b>47.13</b>	<b>47.40</b>	<b>46.47</b>	<b>45.73</b>	<b>43.79</b>	<b>42.05</b>	<b>40.78</b>
Directivity (dB)	3.76	3.90	4.05	4.17	4.14	4.13	4.09	3.88	3.87	4.01	4.26
Peak Gain Position (Theta)	120.00	120.00	120.00	120.00	120.00	105.00	105.00	105.00	135.00	135.00	0.00
Peak Gain Position (Phi)	285.00	285.00	285.00	285.00	285.00	285.00	285.00	285.00	270.00	270.00	90.00
Efficiency ThetaPol (%)	11.37	11.71	11.53	11.53	11.59	11.52	11.56	11.83	11.80	11.70	11.60
Efficiency PhiPol (%)	31.24	32.56	33.45	35.01	35.54	35.89	34.91	33.90	31.99	30.35	29.18
Upper Hem. Efficiency (%)	22.82	23.44	23.72	24.38	24.66	24.69	24.26	23.98	23.57	22.84	22.39
Lower Hem. Efficiency (%)	19.80	20.82	21.27	22.17	22.47	22.71	22.21	21.75	20.23	19.21	18.40
T90 (H)角度	16.45	15.21	13.15	11.50	10.10	9.70	9.25	8.79	8.65	11.29	14.35
Gain 1 Sidey (dBi)											
EI (XZ)波瓣角度	185.00	181.00	164.00	161.00	163.00	164.00	157.00	104.00	91.00	87.00	79.00
EI (XZ)前瓣比	2.45	2.22	1.93	1.68	1.48	1.46	2.11	2.25	2.63	3.19	3.79
EI (YZ)波瓣角度	154.00	145.00	140.00	141.00	150.00	152.00	156.00	156.00	158.00	158.00	157.00
EI (YZ)前瓣比	3.84	4.00	4.38	4.50	4.70	4.68	4.30	4.49	4.61	4.83	5.18
垂直面半功率轴比(P)	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
面角10度增益(大瓣轴比(P))	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
Hc(XY)波瓣角度	77.00	78.00	79.00	79.00	80.00	81.00	85.00	87.00	87.00	78.00	72.00
Hc(XY)前瓣比	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Empty

