

B606 Antenna Test Report

Customer	优程
Project	B606
Antenna Revision	A1
Product Description	板载天线
Product No	
DATE	2024. 06. 08

Purpose

This report is to measure the performance of BT antenna for B606. The antenna operating frequency at 2.4~2.5GHz, All test data are showed as below.

Content

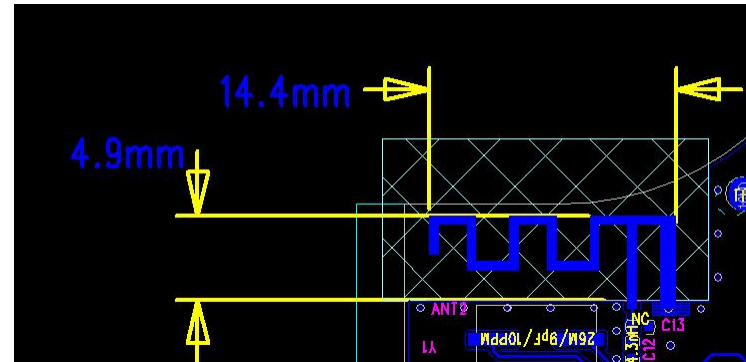
1. Product Overview & Dimension
2. Test system
3. Antenna Matching Network
4. Test Result
 - 4.1 S11 Parameter
 - 4.2 Test coordinate
 - 4.3 2D Pattern
 - 4.4 OTA Data
 - 4.5 BT Boot measured
5. Antenna Assembly & environmental processing

Product Overview & Dimension

FRONT



SIZE



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



Test Result

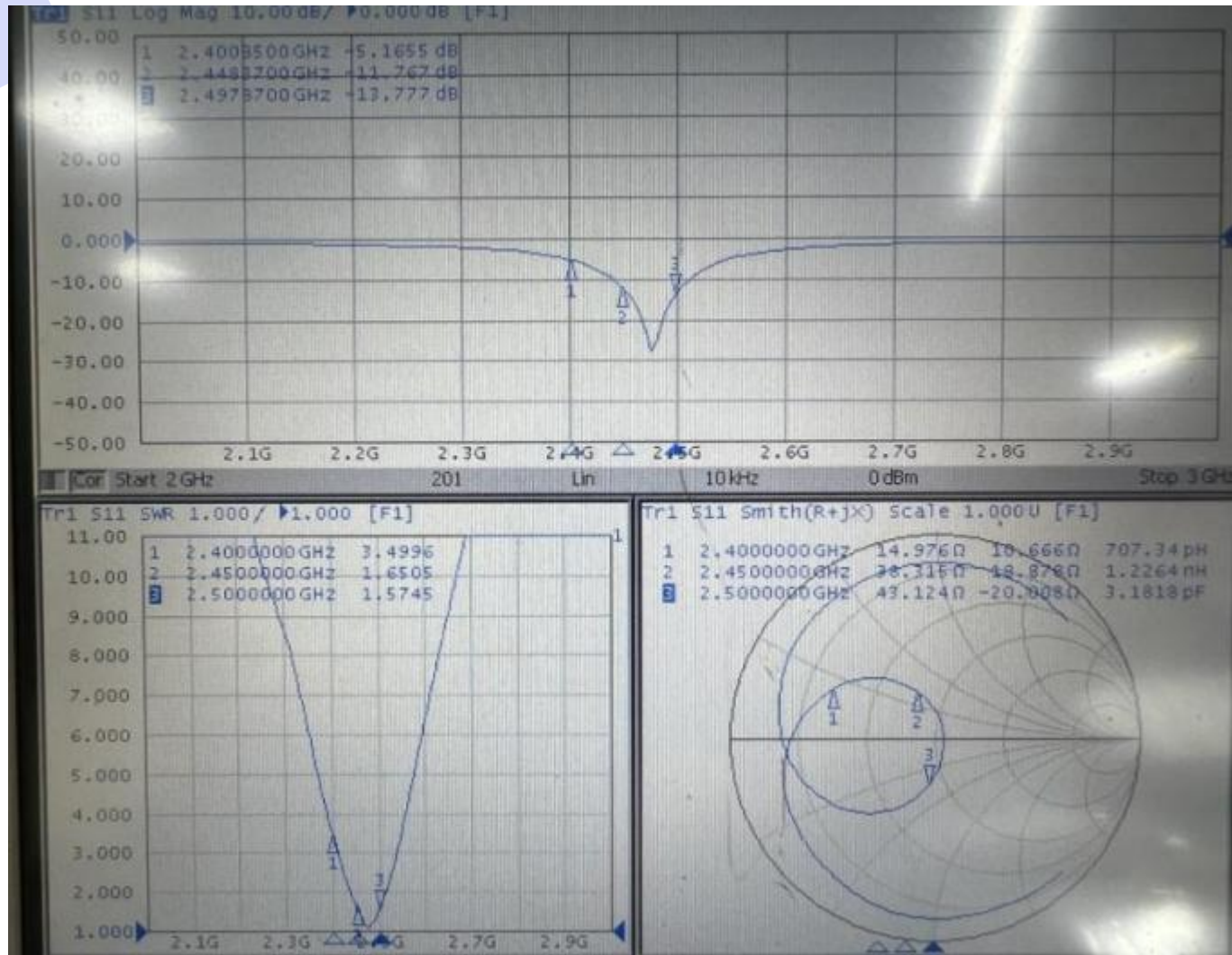
Gain & Efficiency—**BT- ANT**



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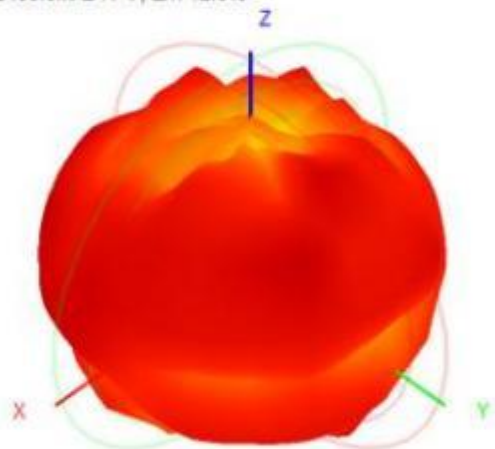
Frequency ID	1	2	3	4	5	6	7	8	9	10	11
Frequency (MHz)	2400.0	2410.0	2420.0	2430.0	2440.0	2450.0	2460.0	2470.0	2480.0	2490.0	2500.0
Efficiency (dBi)	-7.03	-6.96	-6.67	-6.25	-6.29	-6.43	-6.79	-7.39	-8.04	-8.39	-8.78
Gain (dBi)	-2.95	-2.95	-2.78	-1.82	-1.50	-1.35	-1.67	-2.14	-2.27	-3.25	-3.90
Efficiency (%)	19.82	20.12	21.53	23.71	23.51	22.76	20.96	18.24	15.69	14.50	13.24
Directivity (dB)	4.08	4.01	3.89	4.43	4.79	5.08	5.11	5.24	5.78	5.14	4.88
Peak Gain Position (Theta)	30.00	90.00	90.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Peak Gain Position (Phi)	105.00	105.00	105.00	0.00	0.00	15.00	15.00	105.00	90.00	105.00	90.00
Efficiency ThetaPol (%)	7.64	7.66	8.26	9.18	9.75	10.28	9.61	8.34	7.18	6.46	5.43
Efficiency PhiPol (%)	12.18	12.46	13.27	14.52	13.75	12.49	11.35	9.90	8.52	8.04	7.82
Upper Hem. Efficiency (%)	11.66	11.78	13.10	14.97	14.96	14.68	13.18	11.17	9.53	8.58	7.75
Lower Hem. Efficiency (%)	8.16	8.34	8.42	8.73	8.55	8.09	7.77	7.08	6.16	5.91	5.49

无源S11—(BTANT)-耳机

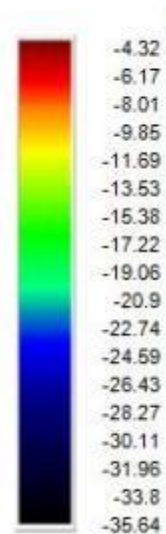
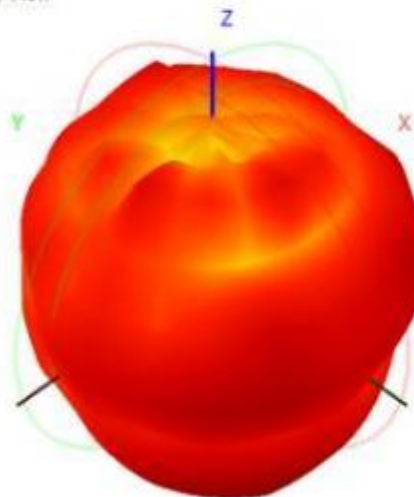


无源场型图

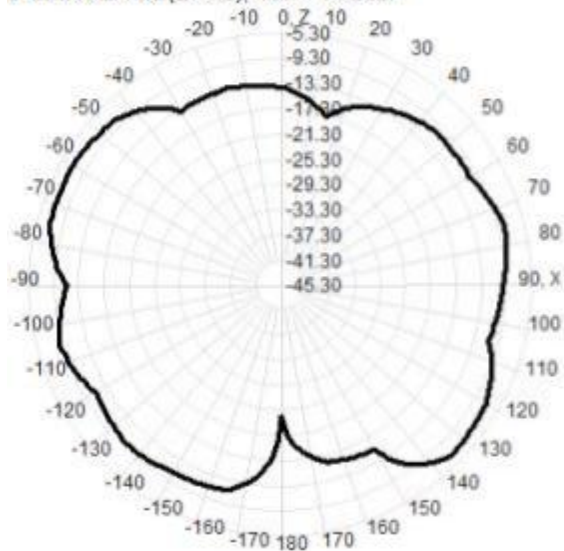
2400.0MHz H+V, Eff: 12.0%



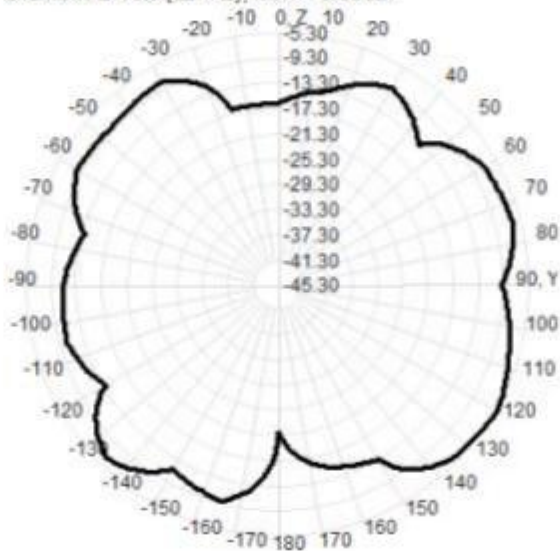
Back View



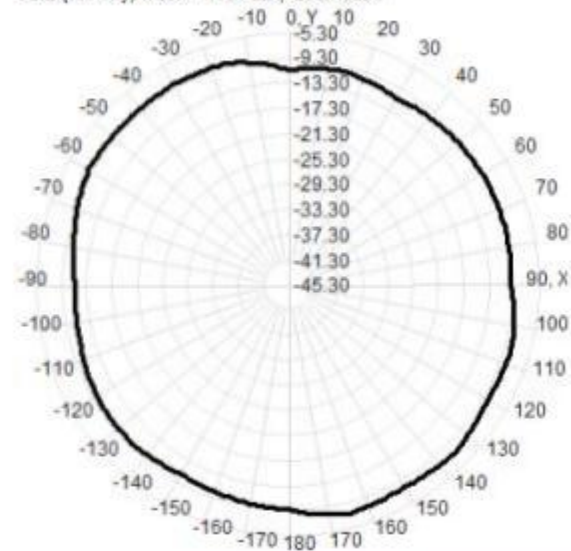
2400.0MHz Total(E1-XZ), Max=-7.16dBi



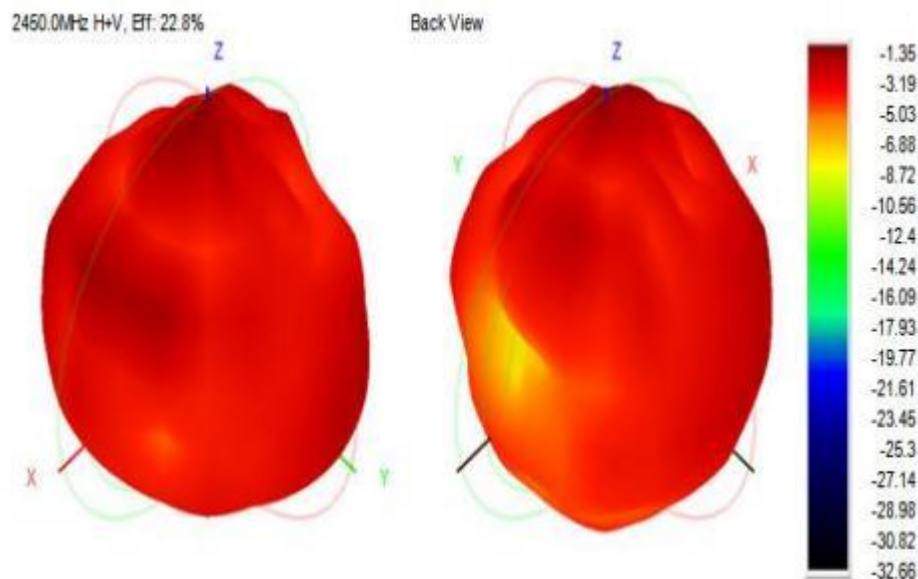
2400.0MHz Total(E2-YZ), Max=-5.30dBi



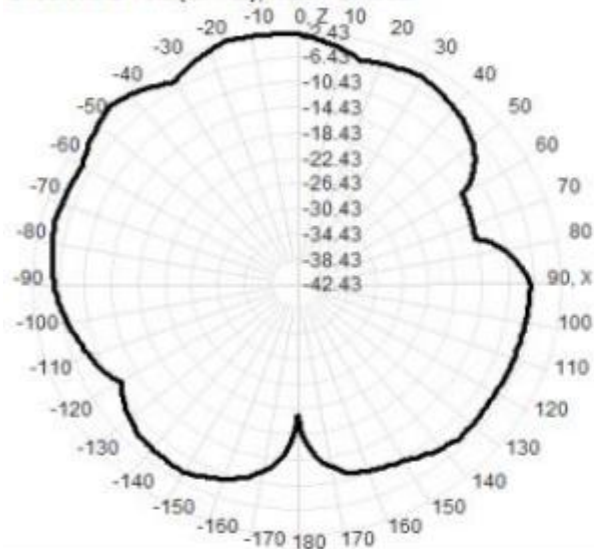
Total(H-XY), Max=-7.94dBi, CirD=3.51



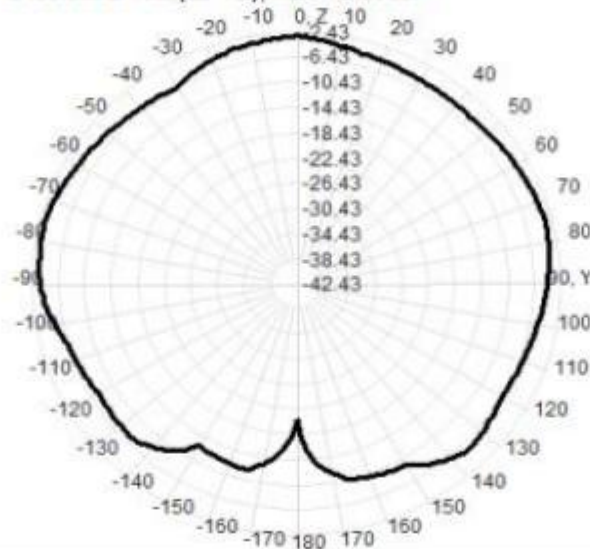
无源场型图



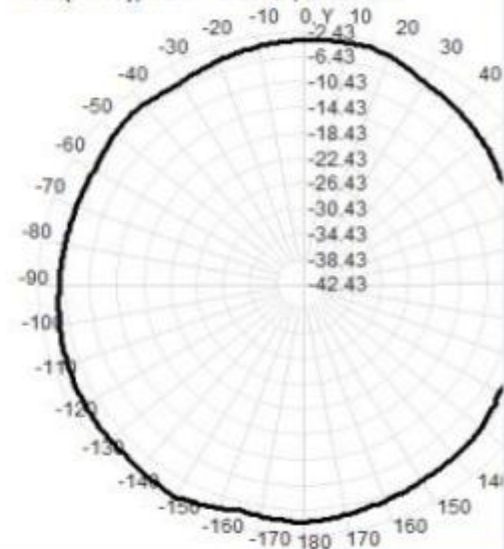
2450.0MHz Total(E1-XZ), Max= -2.43dBi



2450.0MHz Total(E2-YZ), Max= -3.08dBi



Total(H-XY), Max= -3.50dBi, CirD=4.74



DATA- BH 头模

Test Equipment:	R&S CMW500			
Test Condition:	3D chamber			
Band	Wireless Protocol	Channel	TRP(dBm)	TIS(dBm)
BT		0	-3.16	-81.79
		39	-2.77	-80.58
		78	-3.38	-81.36

OTA DATA--自由空间

Test Equipment:	R&S CMW500			
Test Condition:	3D chamber			
Band	Wireless Protocol	Channel	TRP(dBm)	TIS(dBm)
BT		0	-1.19	-84.33
		39	-0.36	-83.12
		78	-1.74	-84.15

Thanks for your comment!

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