

BT0044-8 Antenna Test Report

Customer	今尚
Project	BT0044-8
Antenna BAND	BT
Product Description	HT-1608-V1
Product No	V1.0

This report is to measure the performance of BT antenna for **BT0044-8**. The antenna operating frequency at (2400-2500MHZ) , All test data are showed as below.

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2. Test System

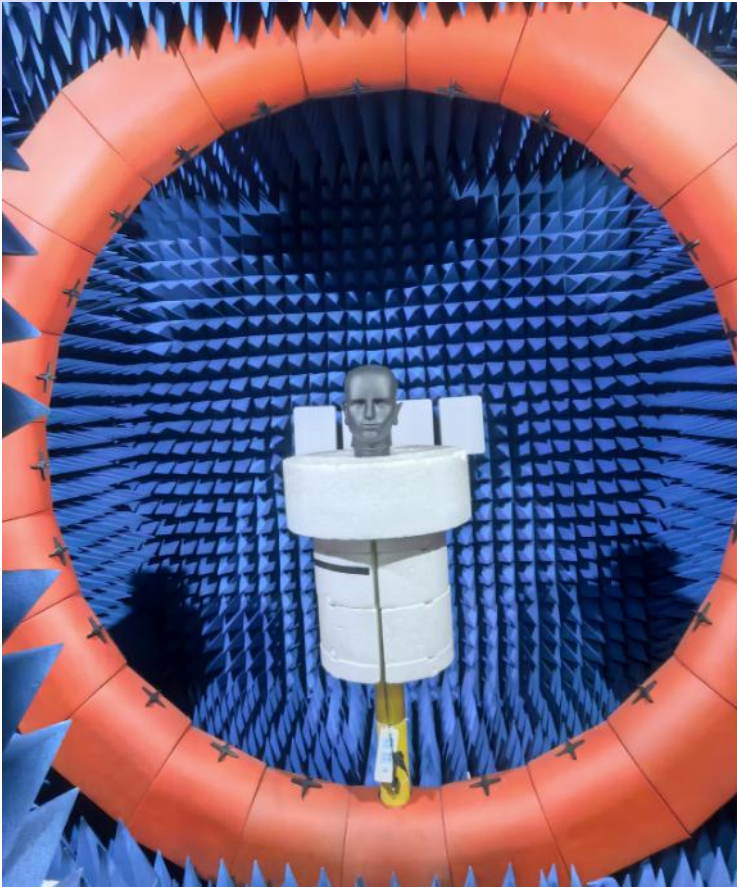
Sequence Number	Test Item	equipment
S parameter	VSWR	Agilent 5071C & HP 8753
OTA Test	TRP&TIS	CMW500 & CMW270 ETS& FT SG24
Gain & Efficiency	Gain & Efficiency	ETS&FT SG24 Agilent 5071C



Test Result

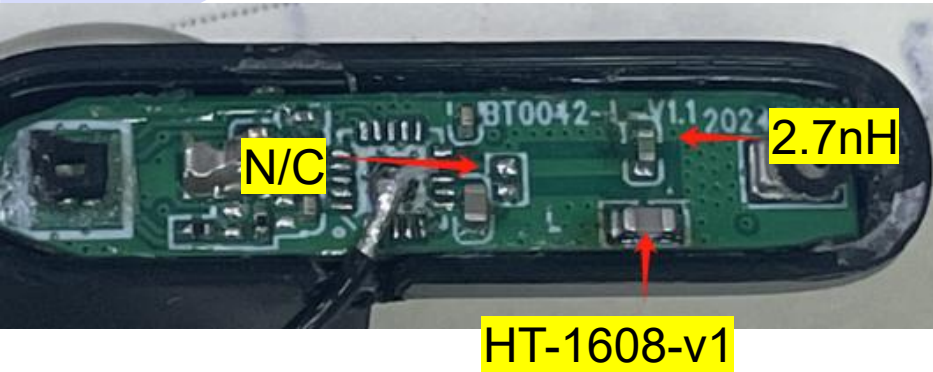
OTA-BH

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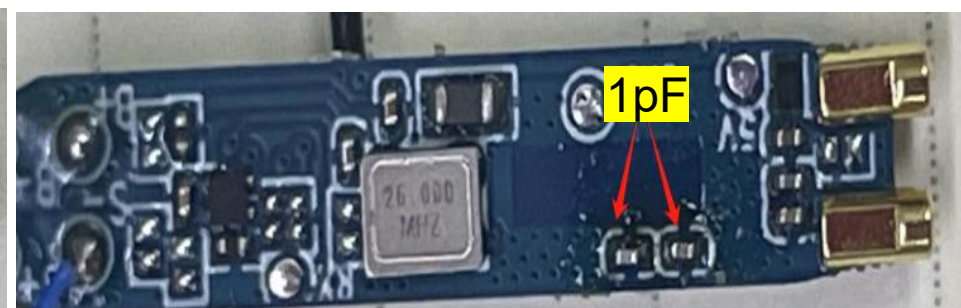
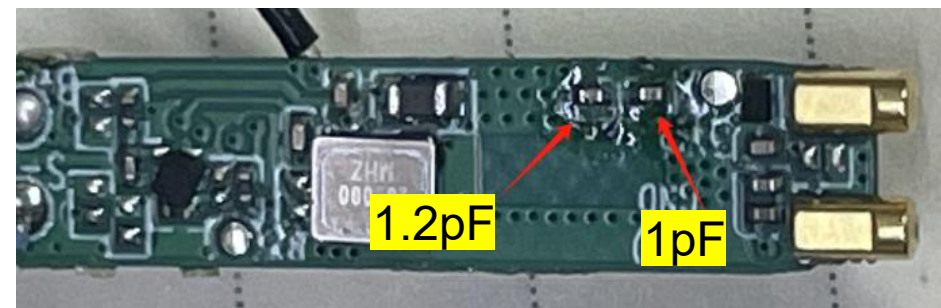
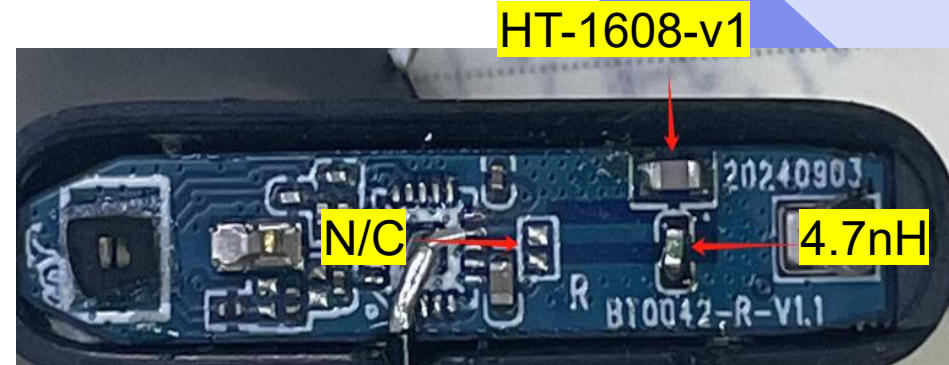


匹配电路

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R



BT ANT-FS-L/R

1#

Test Equipment:	R&S CMW500					
Test Condition:	3D chamber					
Band	Wireless Protocol	Channel	FS-L		FS-R	
			TRP(dbm)	TIS(dbm)	TRP(dbm)	TIS(dbm)
BT	CLASS 1	0	0.76	-81.12	0.42	-79.83
		39	0.85	-79.83	0.92	-80.12
		78	1.23	-80.03	0.81	-80.55

BT ANT-BH-L/R

1#

Test Equipment:	R&S CMW500					
Test Condition:	3D chamber					
Band	Wireless Protocol	Channel	BH-L		BH-R	
			TRP(dbm)	TIS(dbm)	TRP(dbm)	TIS(dbm)
BT	CLASS 1	0	-1.26	-79.85	-1.62	-78.41
		39	-1.11	-78.31	-0.82	-78.39
		78	-0.81	-78.42	-0.67	-78.28

BT ANT-FS-L/R

2#

Test Equipment:	R&S CMW500					
Test Condition:	3D chamber					
Band	Wireless Protocol	Channel	FS-L		FS-R	
			TRP(dbm)	TIS(dbm)	TRP(dbm)	TIS(dbm)
BT	CLASS 1	0	0.93	-81.21	0.29	-80.66
		39	1.26	-80.16	1.31	-79.13
		78	0.77	-79.69	1.53	-79.25

BT ANT-BH-L/R

2#

Test Equipment:	R&S CMW500					
Test Condition:	3D chamber					
Band	Wireless Protocol	Channel	BH-L		BH-R	
			TRP(dbm)	TIS(dbm)	TRP(dbm)	TIS(dbm)
BT	CLASS 1	0	-1.83	-80.16	-2.22	-78.79
		39	-0.92	-79.16	-0.87	-78.22
		78	-1.45	-78.24	-0.43	-78.03

BT ANT-FS-L/R

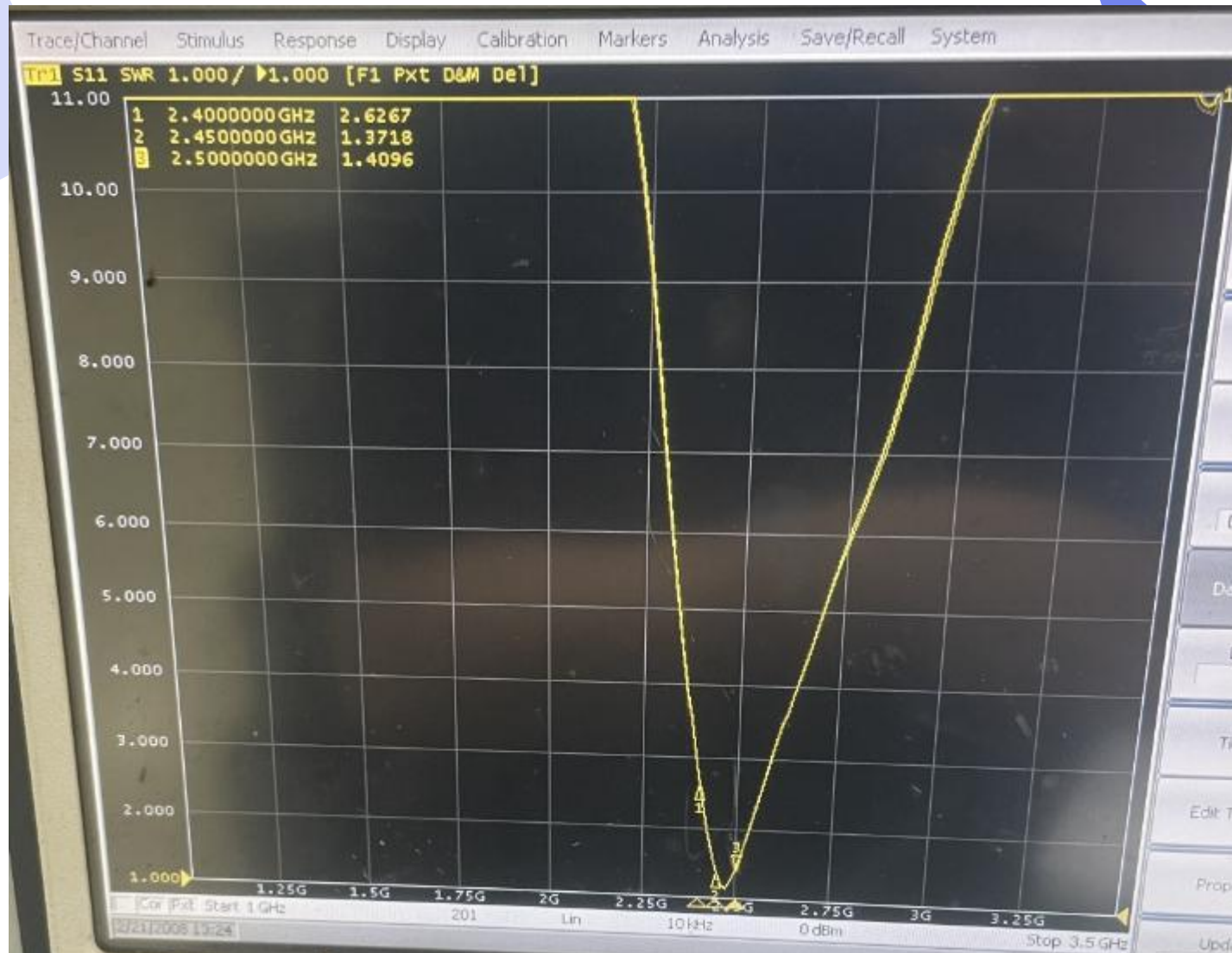
3#

Test Equipment:	R&S CMW500					
Test Condition:	3D chamber					
Band	Wireless Protocol	Channel	FS-L		FS-R	
			TRP(dbm)	TIS(dbm)	TRP(dbm)	TIS(dbm)
BT	CLASS 1	0	1.22	-80.52	0.12	-80.82
		39	0.81	-79.36	1.64	-79.13
		78	0.27	-79.21	1.16	-79.43

BT ANT-BH-L/R

3#

Test Equipment:	R&S CMW500					
Test Condition:	3D chamber					
Band	Wireless Protocol	Channel	BH-L		BH-R	
			TRP(dbm)	TIS(dbm)	TRP(dbm)	TIS(dbm)
BT	CLASS 1	0	-1.45	-79.47	-2.41	-78.43
		39	-1.62	-78.29	-0.75	-78.26
		78	-1.83	-77.46	-1.12	-77.68

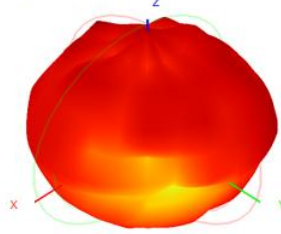


VSWR

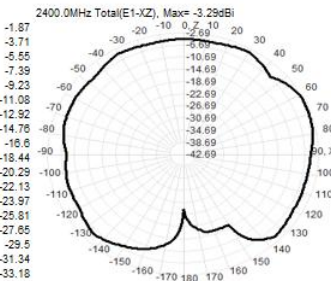
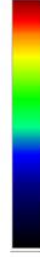
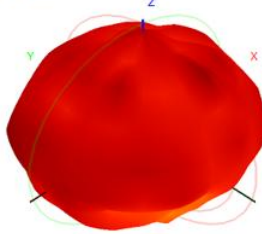
Frequency (MHz)	Efficiency (%)	Gain (dBi)
2400	23.55	-1.87
2410	24.46	-2.36
2420	24.91	-2.03
2430	25.47	-0.52
2440	25.81	-0.08
2450	26.23	0.34
2460	26.94	0.20
2470	27.63	-0.07
2480	28.81	0.02
2490	29.50	0.08
2500	28.00	-0.37

3D Pattern

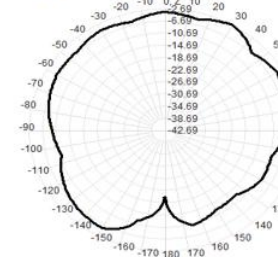
2400.0MHz Total, Eff: 23.5%



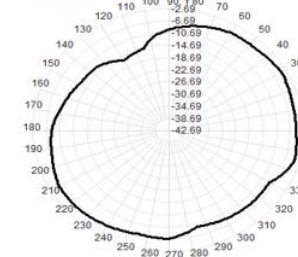
Back View



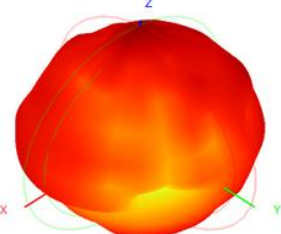
2400.0MHz Total(E2-YZ), Max=-2.89dBi



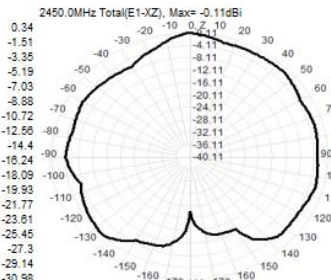
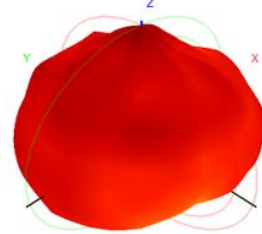
Total(H-XY), Max=-4.37dBi, CirD=11.50



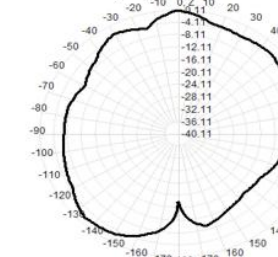
2450.0MHz Total, Eff: 32.2%



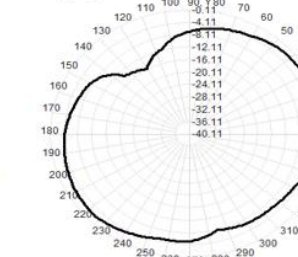
Back View



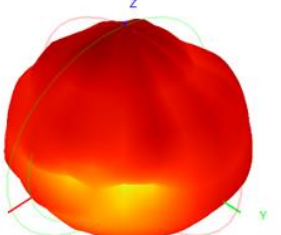
2450.0MHz Total(E2-YZ), Max=-0.33dBi



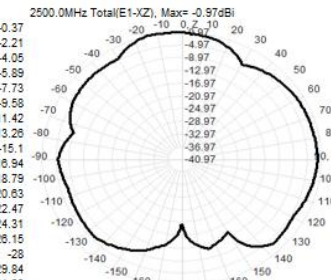
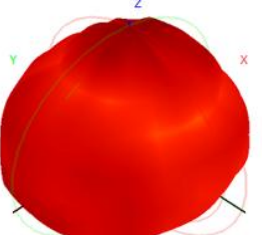
Total(H-XY), Max=-1.93dBi, CirD=14.03



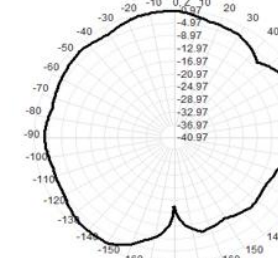
2500.0MHz Total, Eff: 32.0%



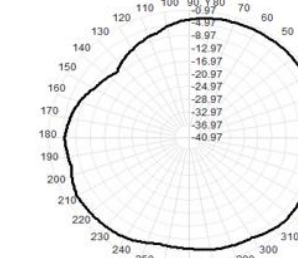
Back View



2500.0MHz Total(E2-YZ), Max=-1.16dBi



Total(H-XY), Max=-1.54dBi, CirD=10.60



Thanks for your comment!

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