

SPECIFICATION

SHEET FOR APPROVAL

(Revision: R: A0)

	CUSTOMER	Hesung Innovation Limited	
	CS P/N		
	TEST MODEL	HHM006S Humidifier	
	PART NAME	WIFI antenna components	
	FREQUENCY	2400~2500MHz	
	ZTX NO.	2.00001319	
	DATE	2024-07-03	

CUSTOMER			
QA CHECKED	ME CHECKED	RF CHECKED	MANAGER CHECKED

Remark:

Sign:

Shenzhen ZTX Communication Technology Co., Ltd				
MANAGER CHECKED	MANAGER CHECKED	ME CHECKED	RF CHECKED	LISTER
		Le.Qin	Bohou.Jiang	



Shenzhen ZTX Communication Technology Co., Ltd

Address: No.34, Shilong Avenue, Shiyan Town, Baoan District, Shenzhen, (Tengda Industrial Park) 518000

Tel.: 0755-27588320 Fax: 0755-27588045 <http://www.chinaztx.com>

ANTENNA SPECIFICATION

CUS P/N:HHM006S Humidifier_WIFI antenna components Application Date:Jul,03,2024
ZTX P/N :HHM006S Humidifier_WIFI antenna components Editor:

Rev: R:A0
Page 1 of 9

Revision history

Edition	Date	state
A0	2024-07-03	First edition

ANTENNA SPECIFICATION

CUS P/N:HHM006S Humidifier_WIFI antenna components Application Date:Jul,03,2024

Rev: R:A0

ZTX P/N :HHM006S Humidifier_WIFI antenna components Editor:

Page 2 of 9

Index

		Revision history	1
		Index	2
1		Mechanical Specification	3
	1-1	Mechanical Specification(WIFI antenna components)	3
2		Test equipment	4
3		Test Results Summary	5
	3-1	Active Test	5
	3-2	VSWR	5
	3-3	No-source test data	6
	3-4	2D/3D Radiation Pattern Results	7~9
	3-5	Environmental treatment	9

ANTENNA SPECIFICATION

CUS P/N:HHM006S Humidifier_WIFI antenna components Application Date:Jul,03,2024

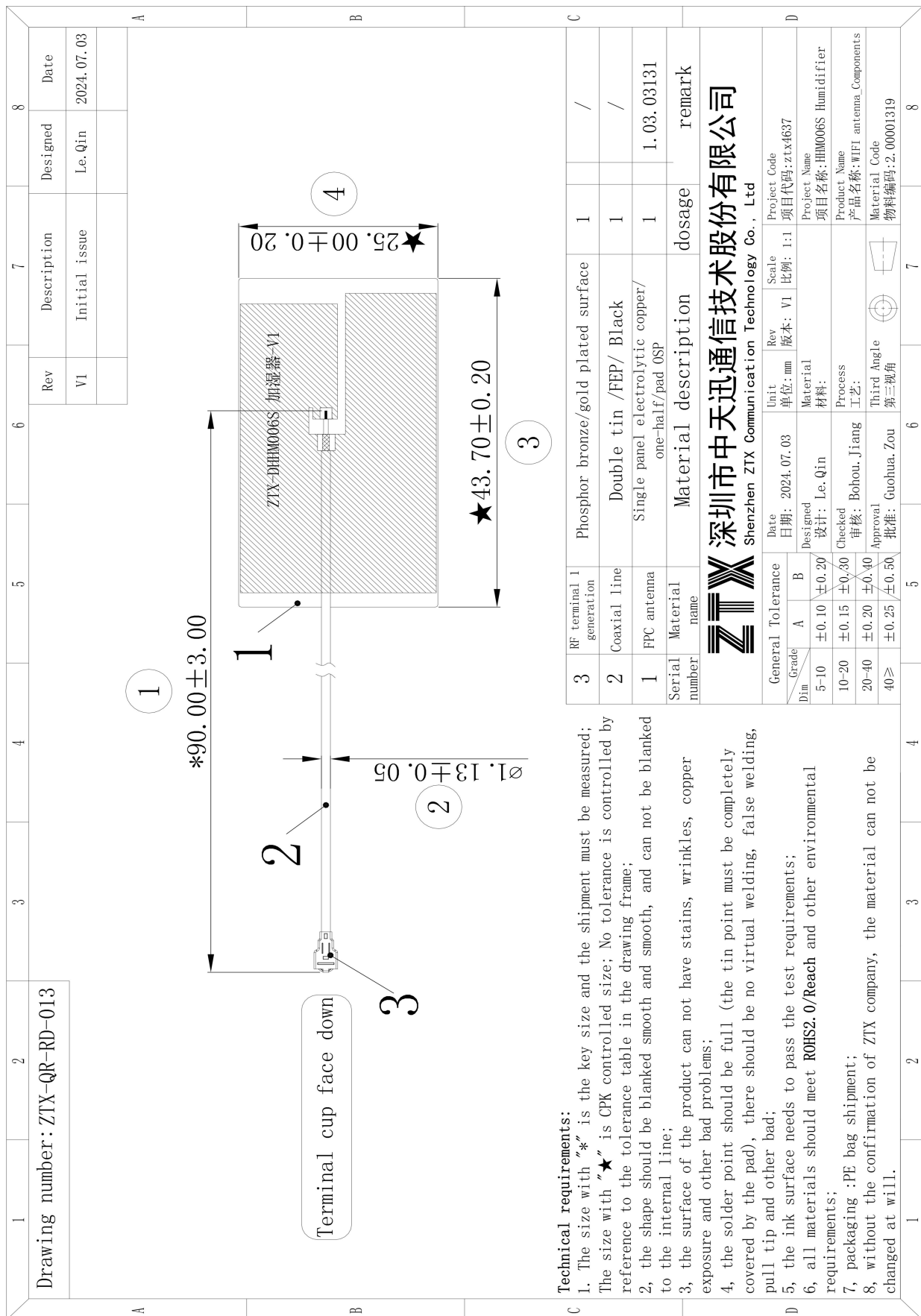
Rev: R:A0

ZTX P/N :HHM006S Humidifier_WIFI antenna components Editor:

Page 3 of 9

1. Mechanical Specification

1-1 Mechanical Configuration (WIFI antenna components)



ANTENNA SPECIFICATION

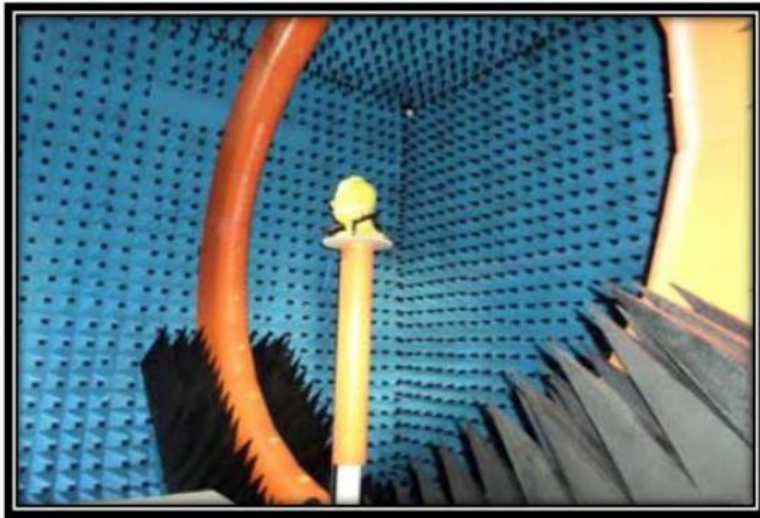
CUS P/N:HHM006S Humidifier_WIFI antenna components Application Date:Jul,03,2024

Rev: R:A0

ZTX P/N :HHM006S Humidifier_WIFI antenna components Editor:

Page 4 of 9

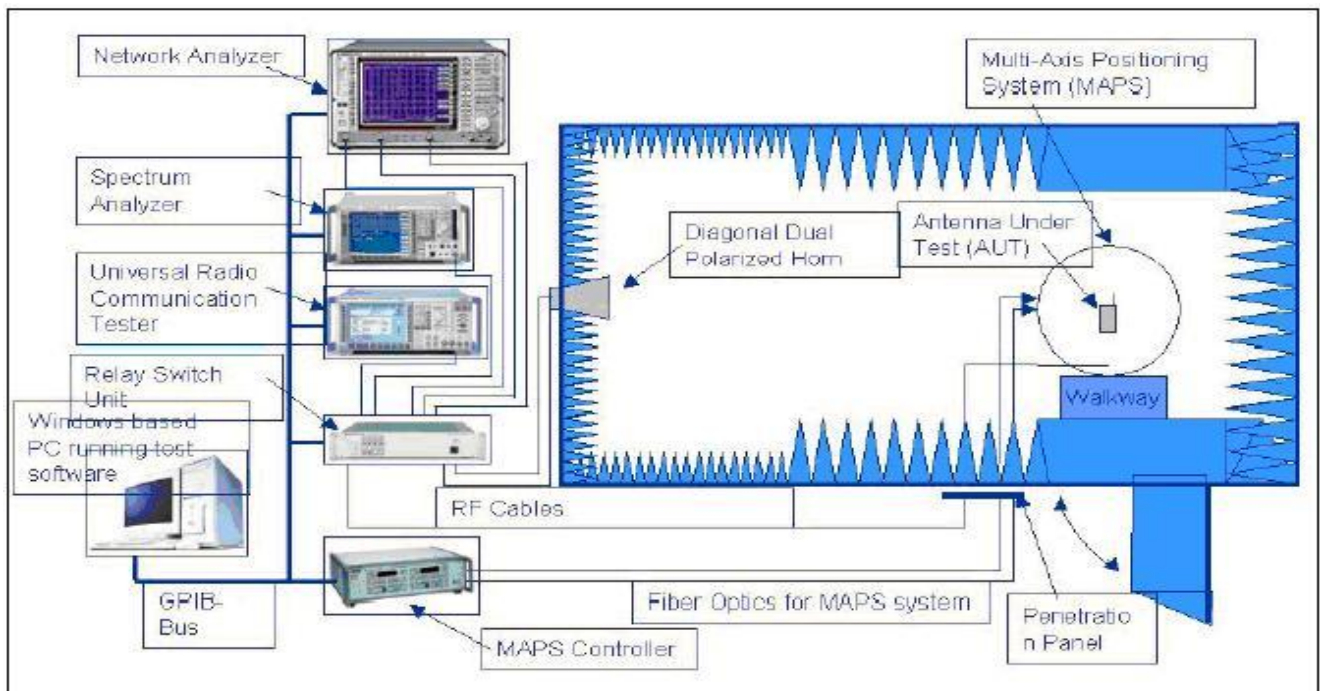
2. Test equipment



Owned 6 microwave dark room, equipped 2 sets world leading France Satimo SG24 OTA certification test systems (one in SHENZHEN, another one in Shanghai), ETS OTA Standard test system, Blue test reverberation test system which is High repeatability, high accuracy and high resolution. It can quickly provide accurate test reports, fully meet the CTIA standards.

Testing range:

Support active, passive testing of GSM/CDMA/WCDMA/TD-SCDMA/LTE/WIFI/WLAN/WiMax/BT/GPS/MIMO/UWB within 0.4-6G.



ANTENNA SPECIFICATION

CUS P/N:HHM006S Humidifier_WIFI antenna components Application Date:Jul,03,2024

Rev: R:A0

ZTX P/N :HHM006S Humidifier_WIFI antenna components Editor:

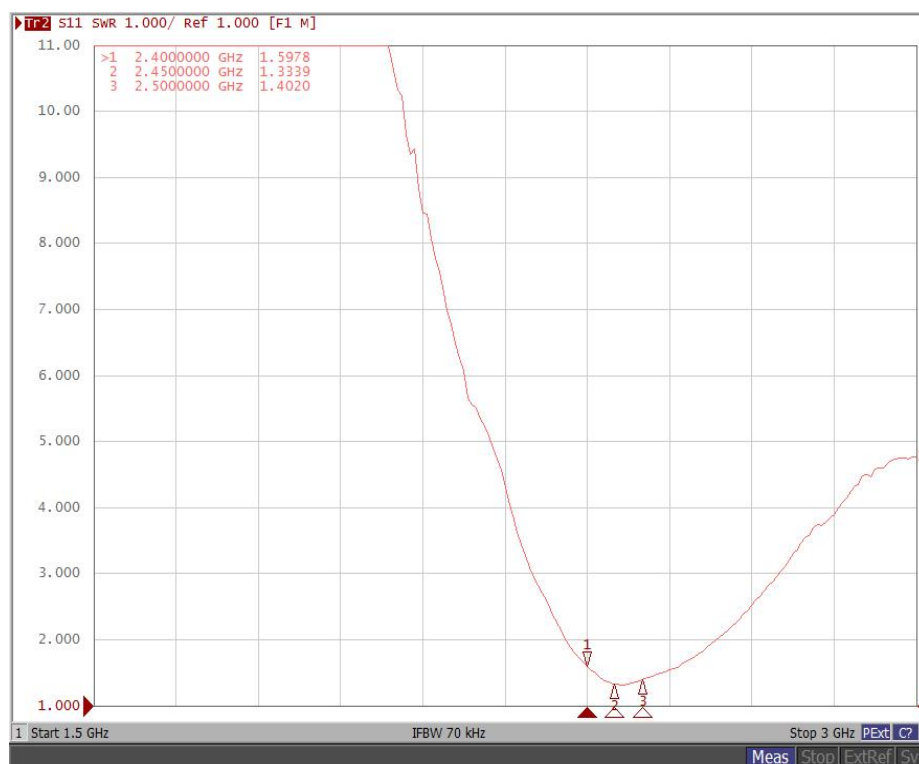
Page 5 of 9

3.Test Results Summary

3-1 Active Test

50% of the water is turned on a gear humidification function				90% of the water is turned on a gear humidification function			
Mode	Channels	TRP	TIS	Mode	Channels	TRP	TIS
B (11M/11M)	1	14.07	-84.42	B (11M/11M)	1	14.11	-83.22
	6	14.23	-83.61		6	14.27	-83.18
	11	14.36	-83.47		11	14.36	-82.96
G (6M/54M)	1	11.31	-70.74	G (6M/54M)	1	12.22	-68.78
	6	11.07	-69.63		6	11.66	-69.37
	11	11.1	-68.96		11	12.21	-68.57
N (MCS0/MCS7)	1	11.27	-65.52	N (MCS0/MCS7)	1	12.14	-64.97
	6	11.05	-64.38		6	11.73	-64.81
	11	11.13	-63.92		11	11.93	-64.06

3-2 VSWR



ANTENNA SPECIFICATION

CUS P/N:HHM006S Humidifier_WIFI antenna components Application Date:Jul,03,2024

Rev: R:A0

ZTX P/N :HHM006S Humidifier_WIFI antenna components Editor:

Page 6 of 9

3-3 No-source test data

Frequency	Efficiency	Gain . dB
2400MHz	61%	-2.10
2410MHz	61%	-2.04
2420MHz	63%	-1.86
2430MHz	65%	-1.71
2440MHz	66%	-1.69
2450MHz	65%	-1.73
2460MHz	64%	-1.79
2470MHz	65%	-1.71
2480MHz	66%	-1.67
2490MHz	66%	-1.62
2500MHz	66%	-1.61

ANTENNA SPECIFICATION

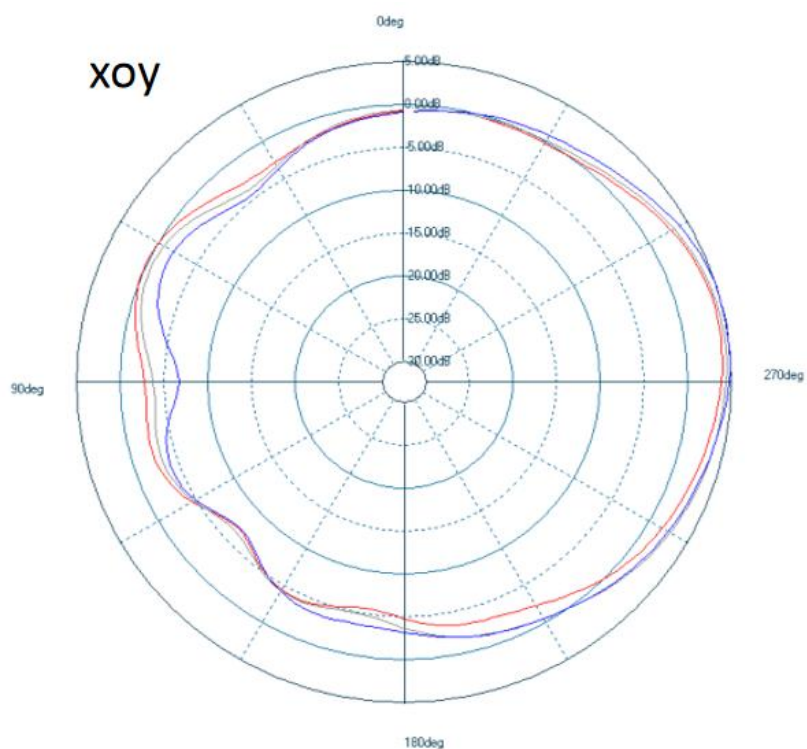
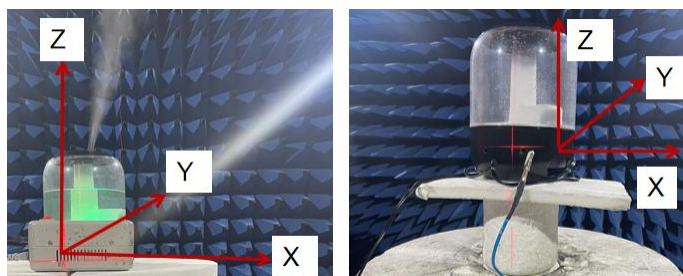
CUS P/N:HHM006S Humidifier_WIFI antenna components Application Date:Jul,03,2024

Rev: R:A0

ZTX P/N :HHM006S Humidifier_WIFI antenna components Editor:

Page 7 of 9

3-4 2D/3D Radiation Pattern Results



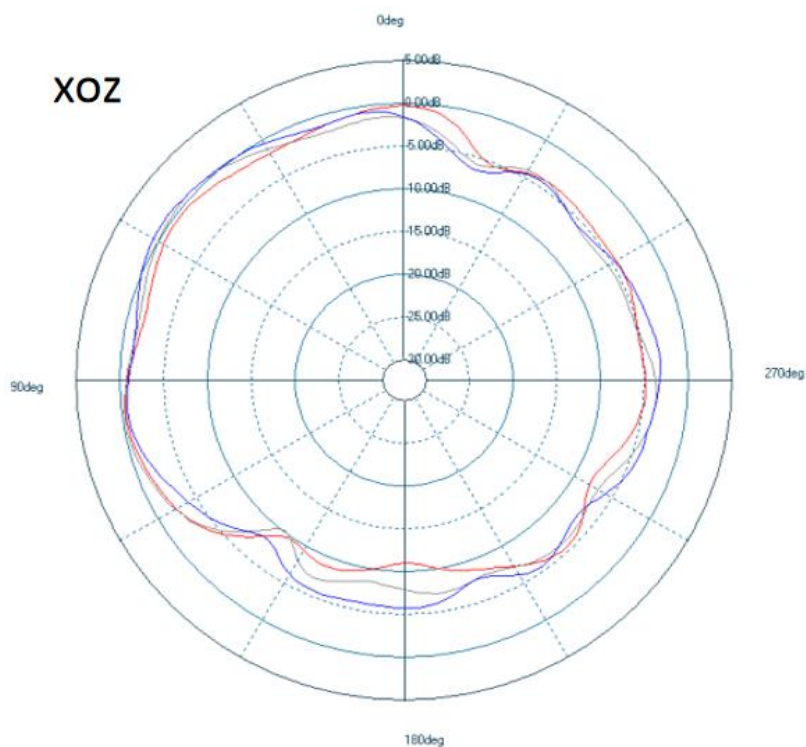
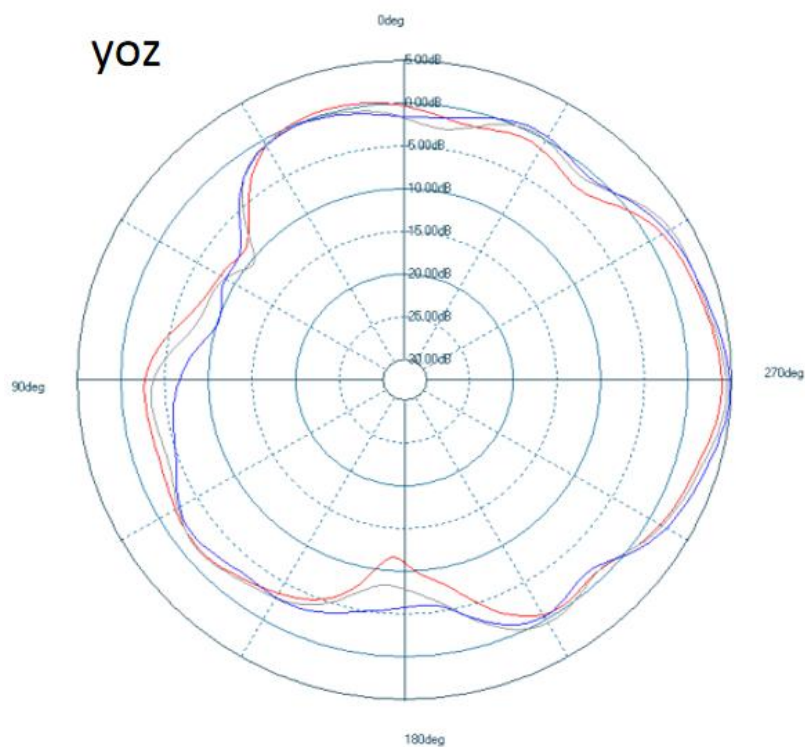
ANTENNA SPECIFICATION

CUS P/N:HHM006S Humidifier_WIFI antenna components Application Date:Jul,03,2024

Rev: R:A0

ZTX P/N :HHM006S Humidifier_WIFI antenna components Editor:

Page 8 of 9



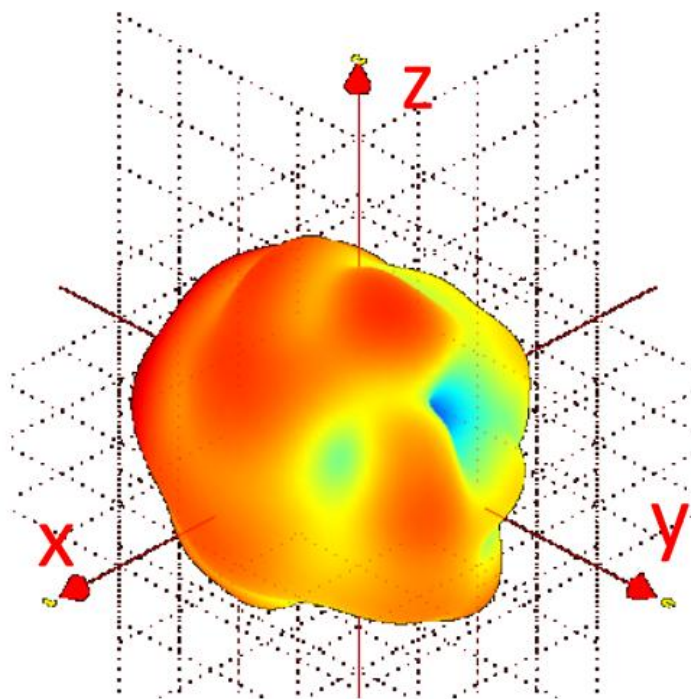
ANTENNA SPECIFICATION

CUS P/N:HHM006S Humidifier_WIFI antenna components Application Date:Jul,03,2024

Rev: R:A0

ZTX P/N :HHM006S Humidifier_WIFI antenna components Editor:

Page 9 of 9



3-5 Environmental treatment

2400-2500MHz
antenna position

