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Dongguan Ante Communication Co., LTD

Rtant Communications Co., Ltd

Antenna debugging & test report

Antenna Commissioning & Test Report

Client: Three Craftsmen

Project: N4P

Antenna engineer: Li Hunan

Date: 2024-3-26

Version: V1.0

Project leader: Jiang Lei

15899911229



eye
record



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一. Project Adjust Profile

二. Laboraty Enviroment and Equiment

三. Antenna matching circuit

四. Darkroom coordinate marking

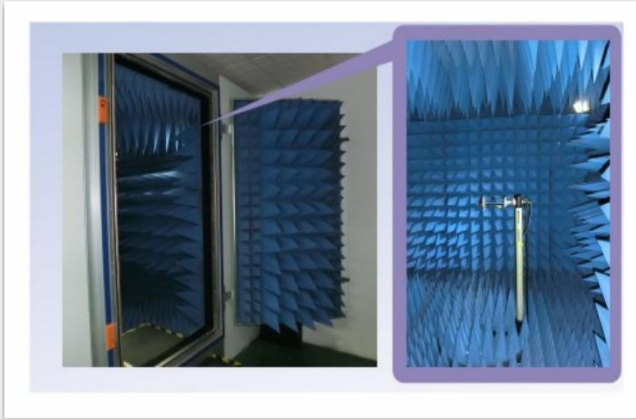
五. Antenna Location

六. Passive Data

七. Contact Info



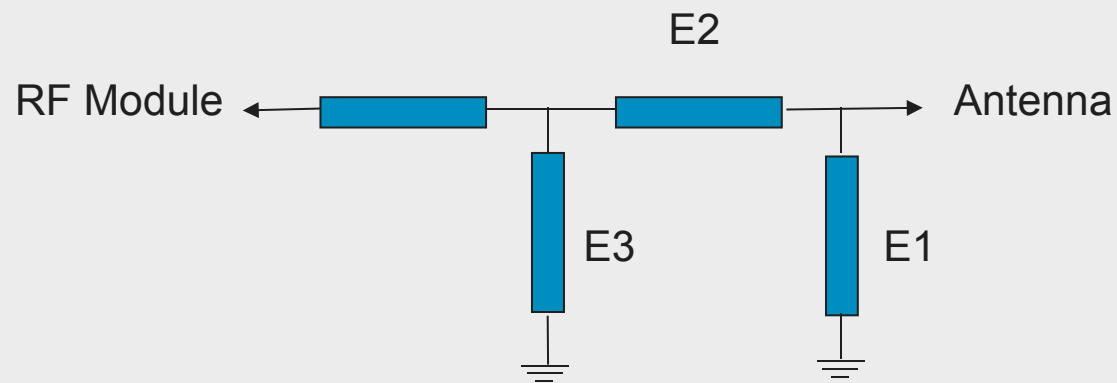
Mach ine type				
Antenna system And frequency band informa- tion	Antenna sy- stem	Band information	Antenna type	Make ch- anges to the match
	WIFI	2400-2500MHz/5150-5850MHz	FPC	Deny
Antenna desc- ription	WI FI antenna ϕ0.81 black L = 50mm four-generation terminals & terminals facing up			
Antenna mate- rial				



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Test item	Testing facility
S11、 S12 、 VSWR 、 LOSS	Network analyzers E5071B, E8753D
Efficiency、 Gain、 3D Radiation Pattern	Satimo SG16 Darkroom, Taiwan's top ten 7*4*3 darkroom, E5071B, second generation head
TRP、 TIS	Satimo SG16 Darkroom, Taiwan's top ten darkrooms, CMW500, second generation head

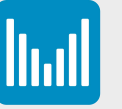
Note: The equipment used for commissioning and testing of this project is marked in blue



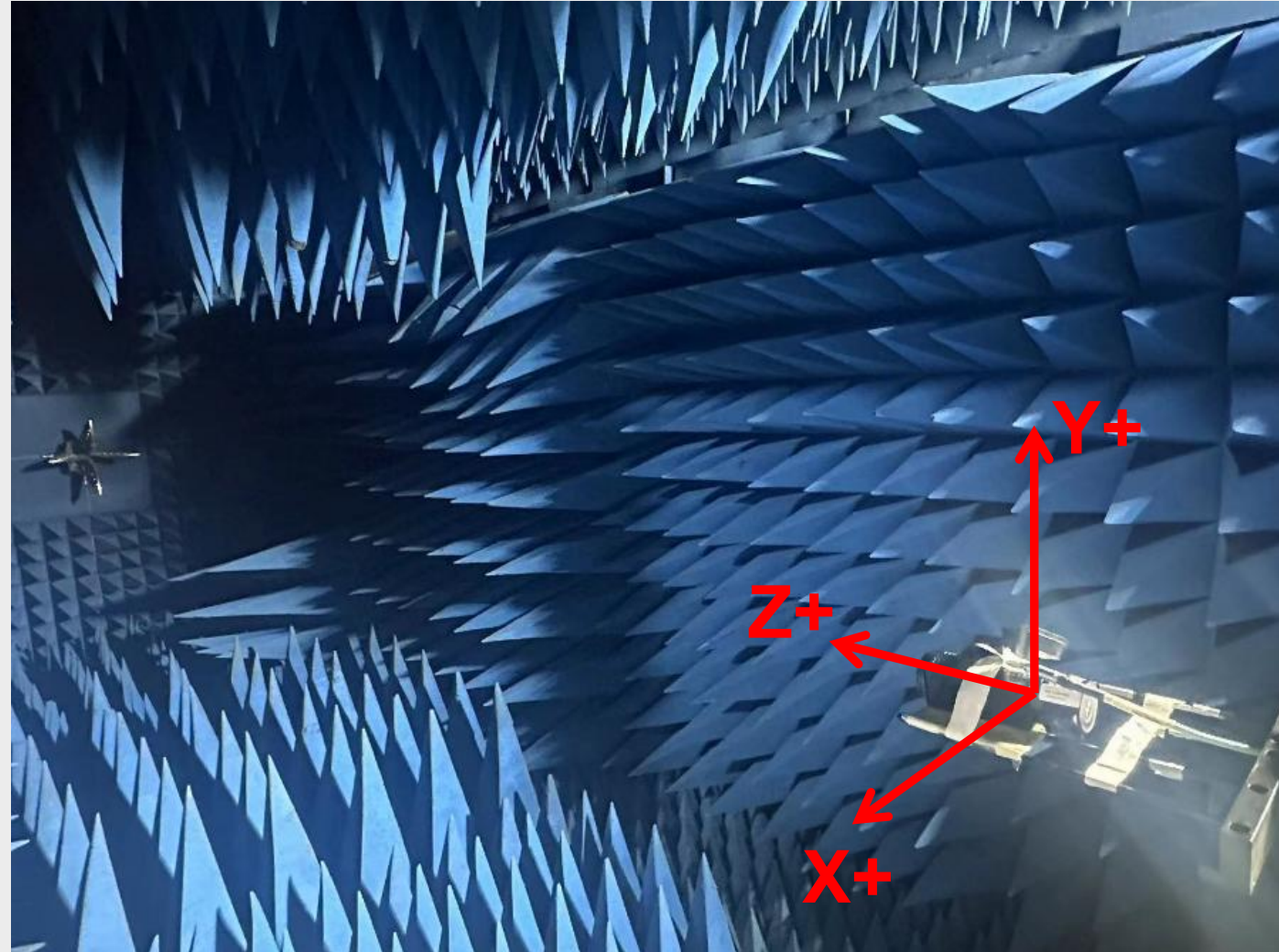
	Element	Value
	E1	No change
	E2	No change
	E3	No changes



IV. Dark room coordinates



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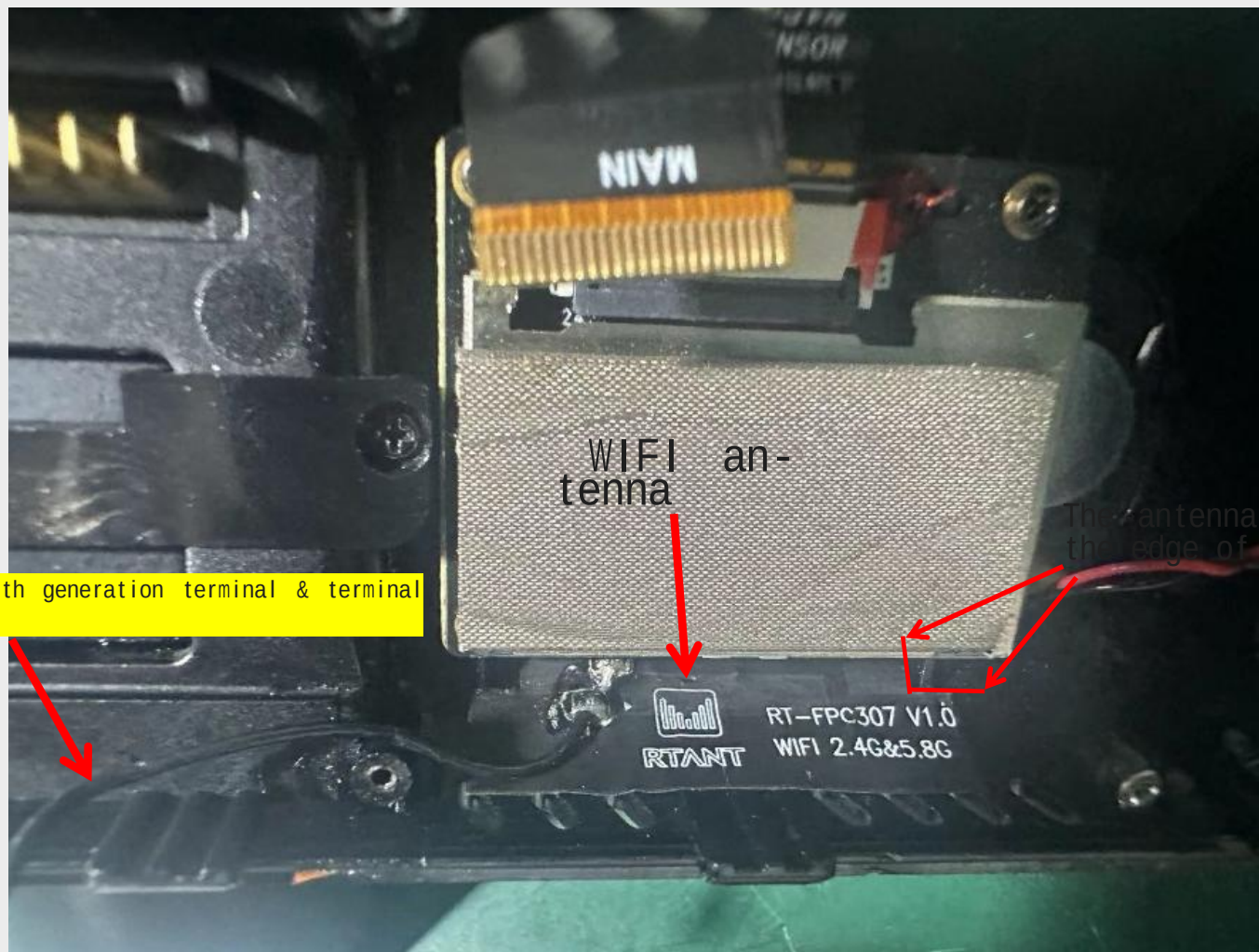


Place the antenna in position

V. Antenna location



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φ0.81 Black L = 50mm fourth generation terminal & terminal port up

WIFI antenna

The antenna is close to the edge of the bone



RT-FPC307 V1.0
WIFI 2.4G&5.8G

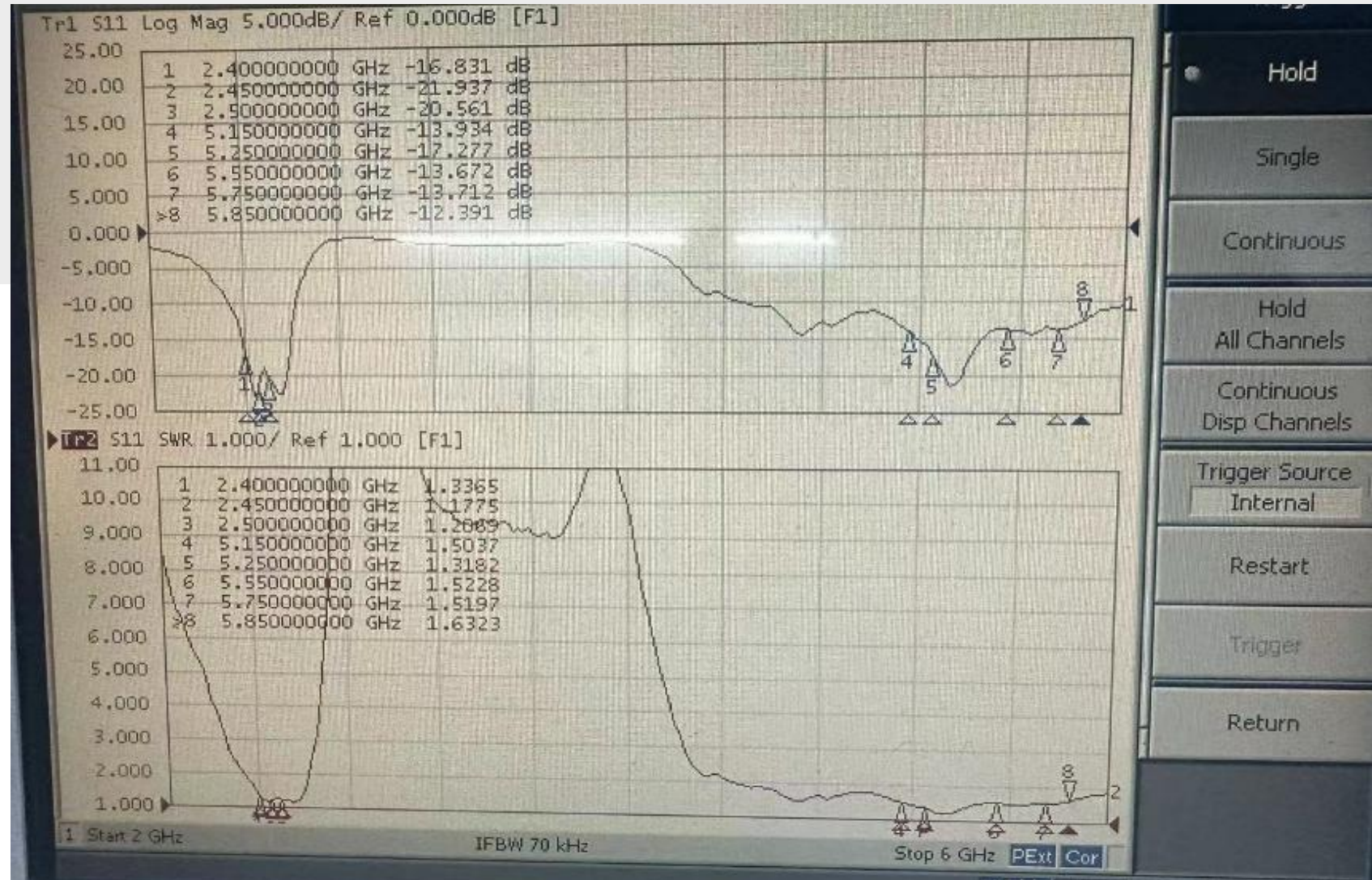
VI. Passive data

R-LOSS&VSWR(WIFI)



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No source data



Effi / Gain(WIFI)



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Frequency	Efficiency (%)	Gain (dBi)	Frequency	Efficiency (%)	Gain (dBi)
2.4GHz	43.27	1.47	5.15GHz	48.81	1.4
2.41GHz	44.63	1.78	5.2GHz	47.35	0.8
2.42GHz	45.84	1.88	5.25GHz	49.52	0.76
2.43GHz	47.35	1.72	5.3GHz	45.88	0.91
2.44GHz	47.67	2.09	5.35GHz	44.67	1.23
2.45GHz	47	2.08	5.4GHz	43.87	0.84
2.46GHz	48.62	2.4	5.45GHz	46.04	1.12
2.47GHz	46.57	2.63	5.5GHz	45.42	0.63
2.48GHz	46.8	2.32	5.55GHz	44.93	1.24
2.49GHz	45.49	1.97	5.6GHz	44.42	1.52
2.5GHz	44.22	1.86	5.65GHz	45.76	0.82
			5.7GHz	48.44	0.72
			5.75GHz	50.7	1.75
			5.8GHz	48.31	0.94
			5.85GHz	48.42	0.7



No source data

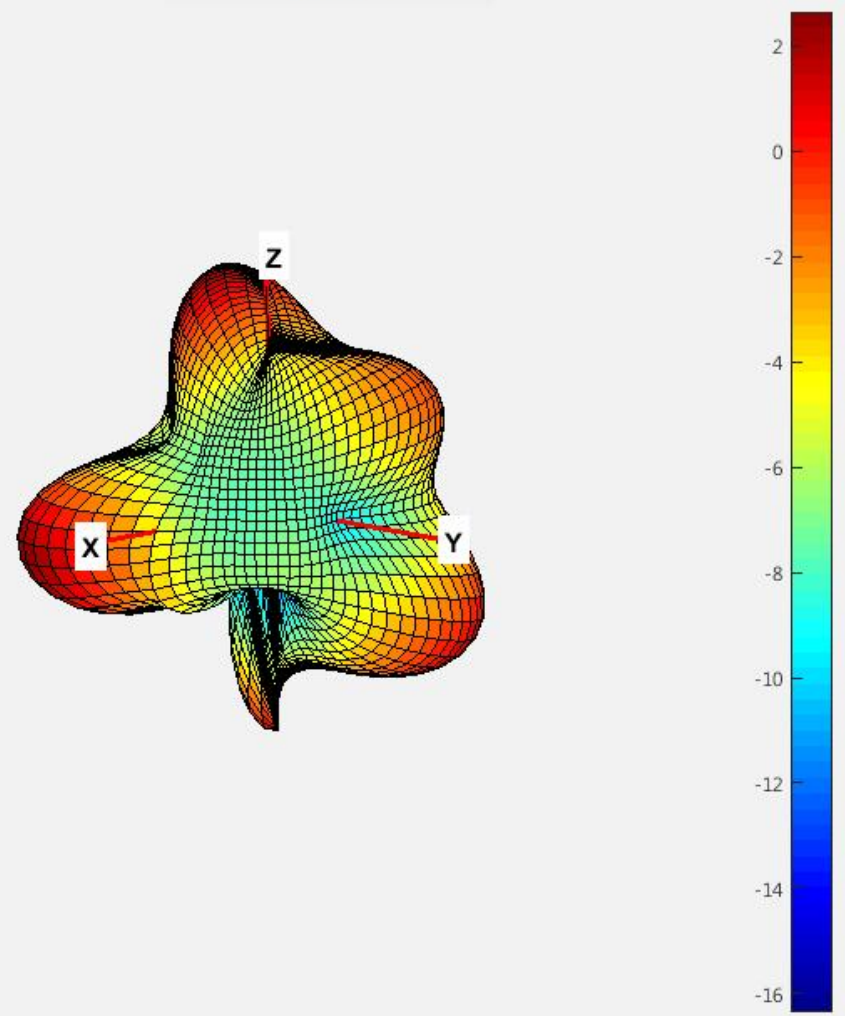
directional
ram WIFI diag-

2450MHz

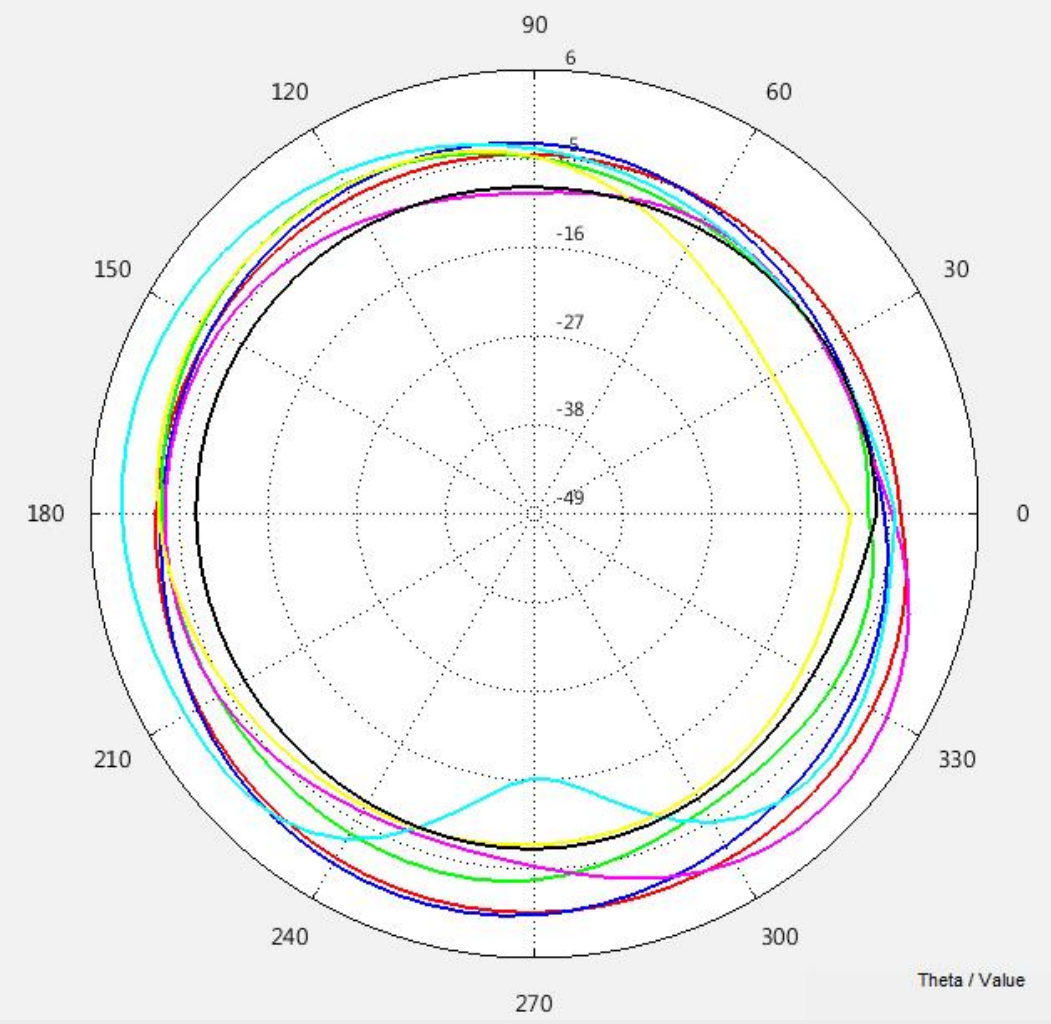


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Total



Total



directional
ram WIFI

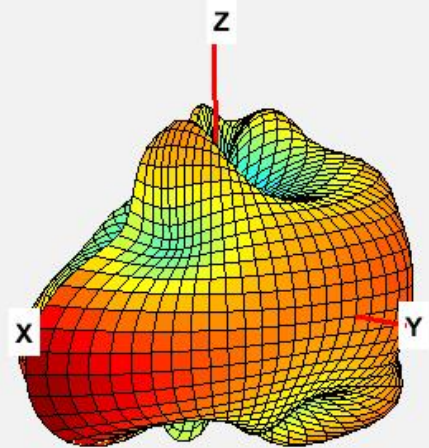
diag-

5500MHz

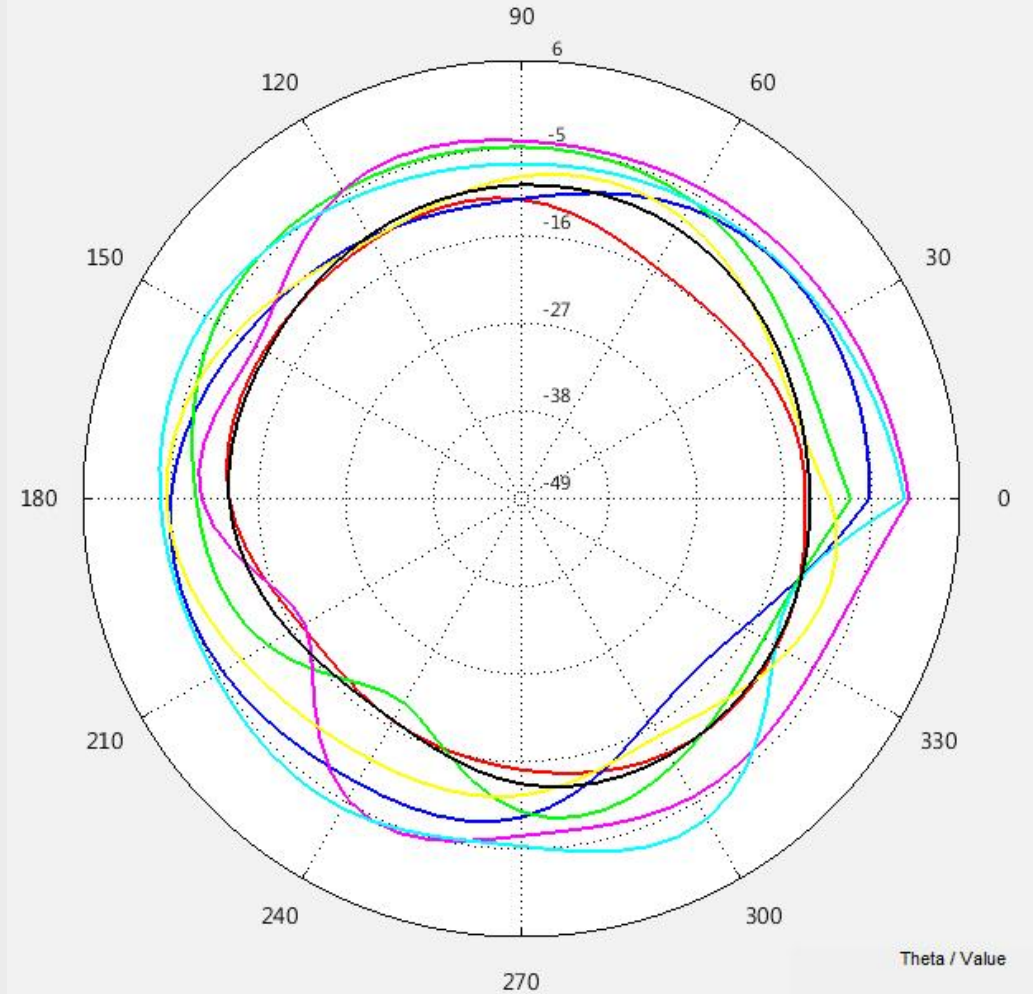


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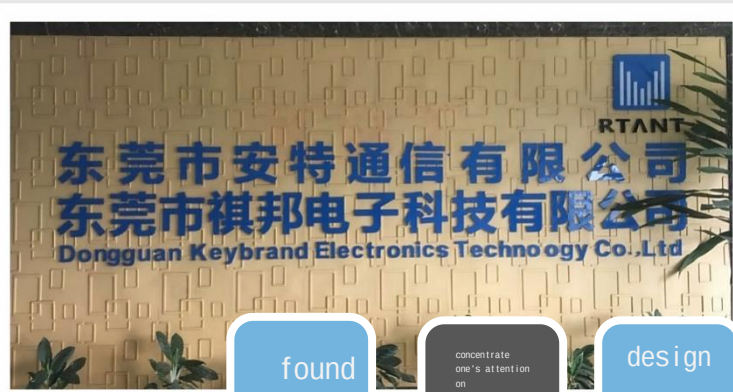
Total



Total



contact way

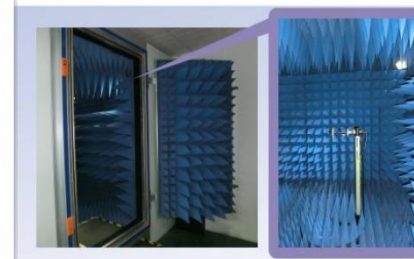
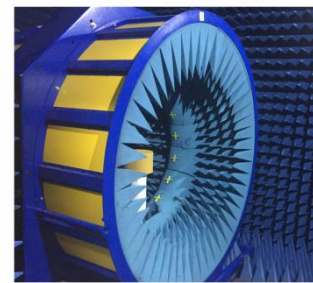


found
11 ye-
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concentrate
one's attention
on
wireless

design
research and
development

make



Learn more about <http://www.rtant.com>

Contact information-Jiang Lei

Mob: 15899911229 Email: jl@rtant.com

Dongguan (Houjie) -Shanghai (Pudong New Area)



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Thank you for your trust in Rtant