

SPECIFICATION FOR APPROVAL

PRODUCT NAME: 2.4G/5.8G Antenna

Electronic Material Number

UB P/N: UB01C500P3D2715A REV: A

Version Revision Record:

releases	proposer	dates	revised record
V-A		March 27, 2023	first draft (of writing)
	MANUFACTURER SIGNATURE		CUSTOMER SIGNATURE
CHECKED BY:			
APPROVED BY:			
DATE:			

Address: Building 79, New Sun Industrial City, Lincun Community, Tangxia Town, Dongguan City (Dongguan Company)

Room 106, Building 3, LETONG Technology Park, No. 500 Qiuyi

Road, Binjiang District, Hangzhou (Hangzhou Company) Room

106, Building A, Xinzheng Industrial Park, No. 57 Liuxian Second

Road, Bao'an District, Shenzhen (Shenzhen Company)

Tel: 0769-81777126

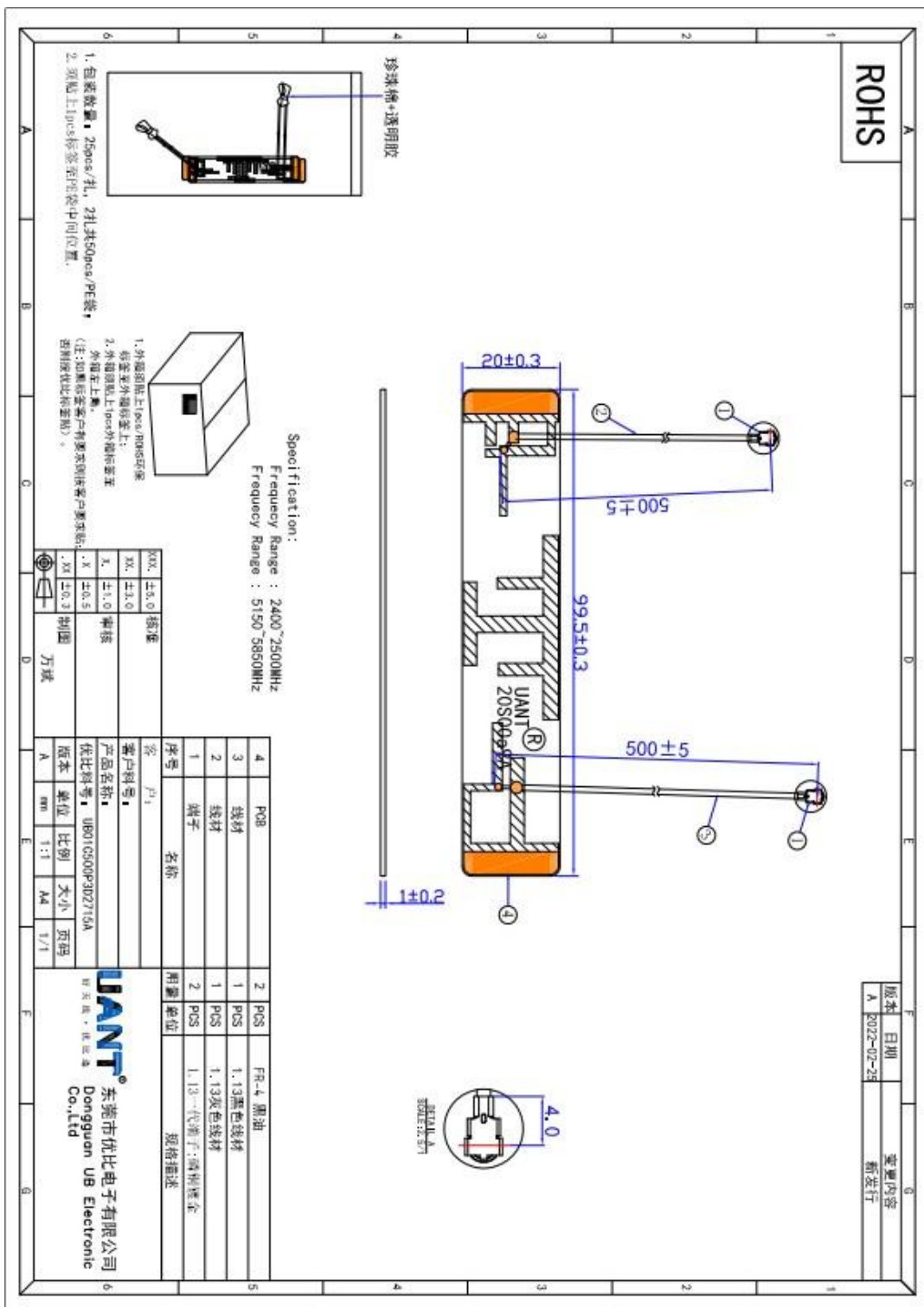
Fax: 0769-81777125

Website: www.ubuant.com

1 specification sheet

Band	2400~2500MHz&5150-5850Mhz
Typology	PIFA
Arts and crafts	PCB
Sizes	99.5*20*1mm
Characteristic impedance	50Ω
Polarize	linear polarization
VSWR	< 3
Average Efficiency	22.36%
Orientation	omnidirectional antenna
Active input	passive

2 size

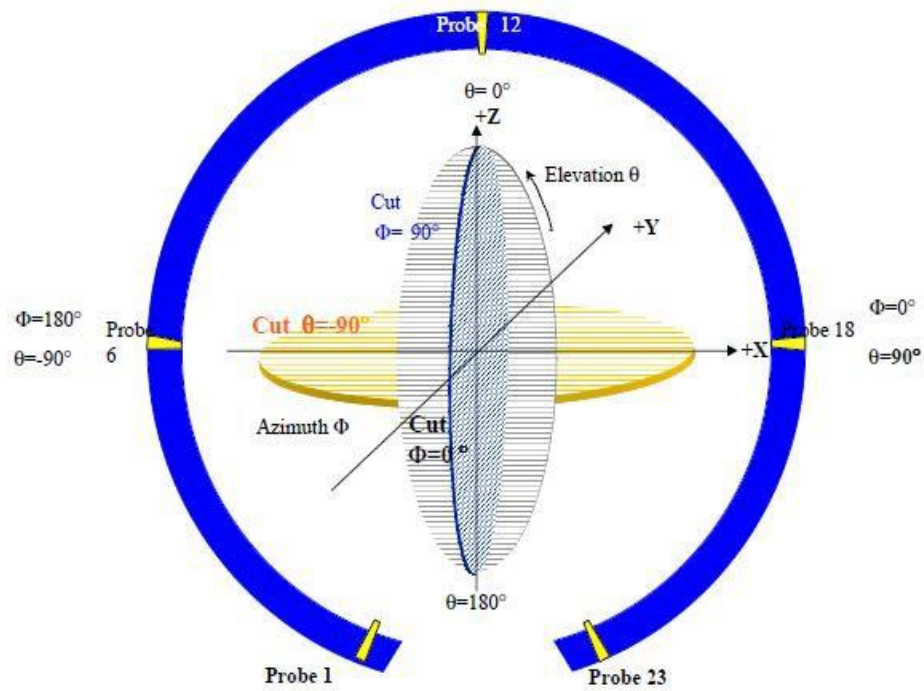


3.1 Product Picture

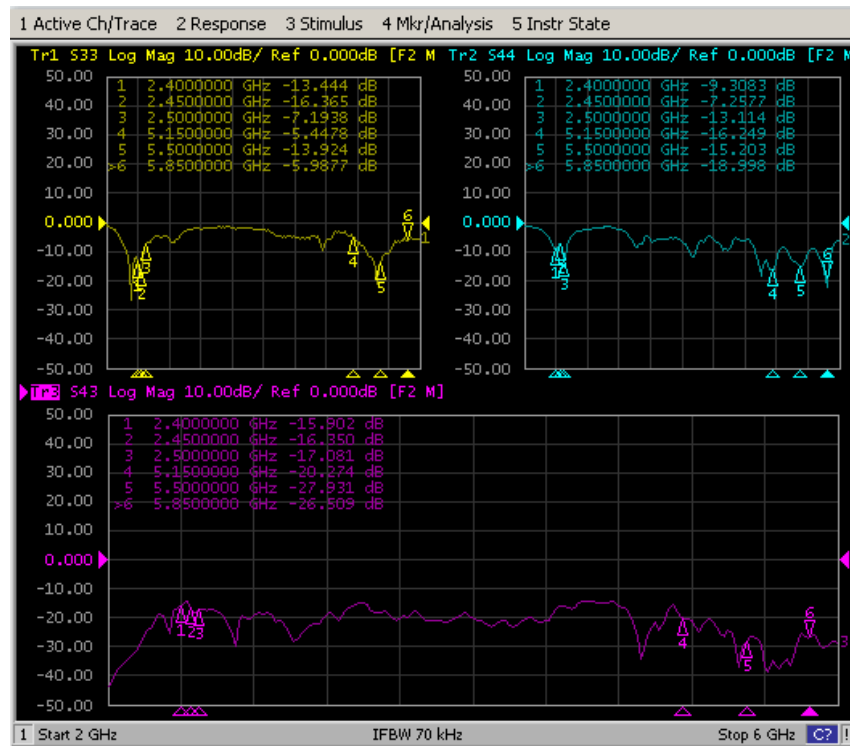


4.1 Passive test

4.1.1 Set up



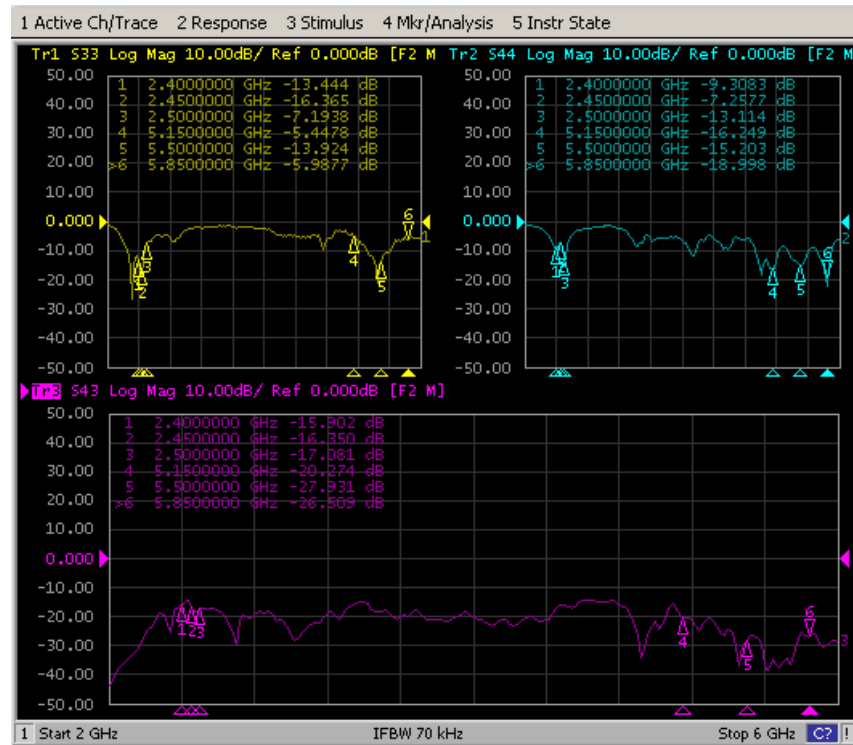
4.1.2 Return Loss



Frequency (MHz)	2400	2450	2500	5150	5500	5850
Return Loss (dB)	-13.44	-16.36	-7.19	-5.44	-11.67	-5.98

4.1.3 Test Data

For Ant 1



Frequency / MHz	Efficiency / dB	Efficiency / %	Gain/ dB	Frequency / MHz	Efficiency / dB	Efficiency / %	Gain/ dB
2400	-6.1	24.53	-0.02	5250	-6.93	20.28	1.03
2410	-6.64	21.68	-0.32	5300	-6.58	21.98	0.51
2420	-6.88	20.52	-0.34	5350	-7.08	19.59	1.19
2430	-6.59	21.94	0.26	5400	-7.11	19.45	-0.08
2440	-6.78	20.99	0.61	5450	-6.49	22.44	0.48
2450	-6.41	22.84	1.04	5500	-6.08	24.66	0.86
2460	-6.22	23.88	1.52	5550	-6.87	20.55	-1.07
2470	-6.06	24.77	1.82	5600	-7.23	19.95	-0.95
2480	-5.92	25.59	1.82	5650	-6.98	20.04	-1.47
2490	-5.58	27.67	1.75	5700	-7.37	18.31	-1.04
2500	-5.84	26.06	1.06	5750	-7.18	19.14	-0.98
5150	-7.21	19.01	0.03	5800	-7.35	18.42	-0.07
5200	-6.87	20.57	-1.17	5850	-7.39	18.25	-0.31

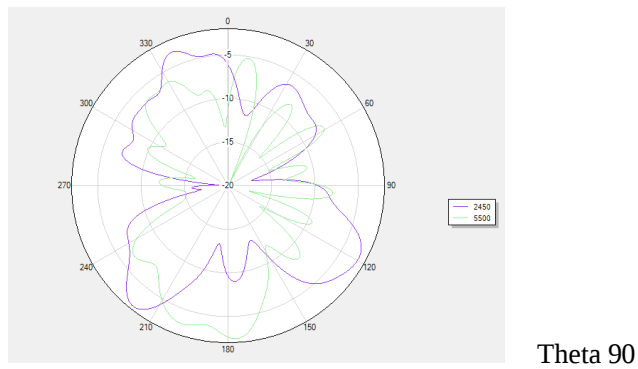
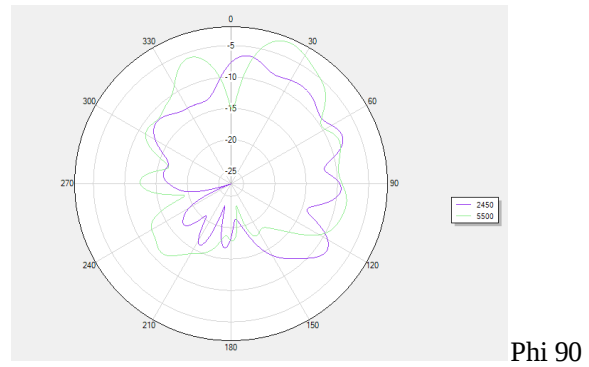
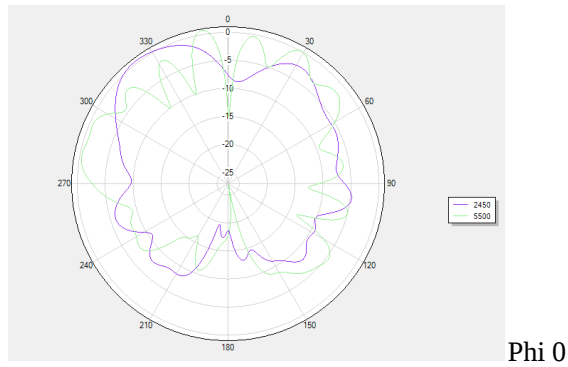
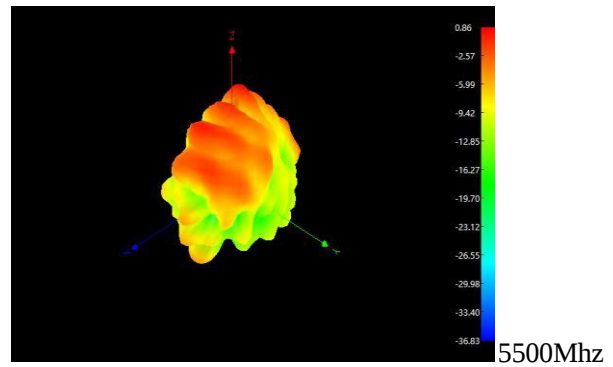
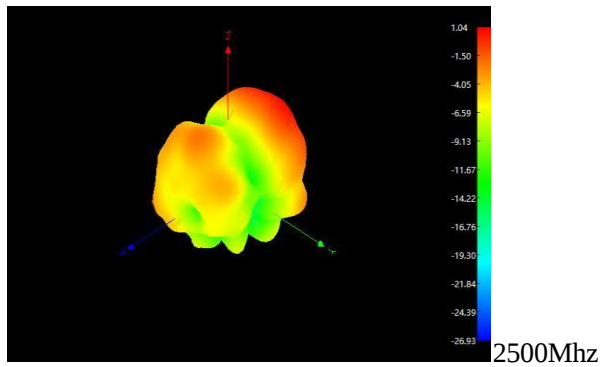
For Ant 2



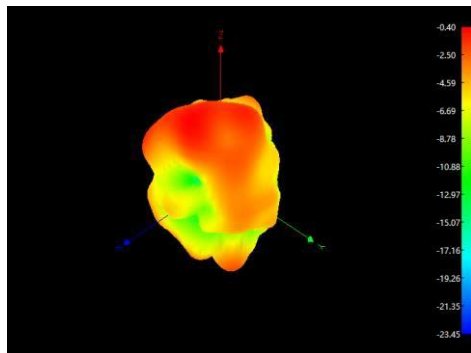
Frequency / MHz	Efficiency / dB	Efficiency / %	Gain/ dB
2400	-7.47	17.91	-1.78
2410	-7.08	19.59	-1.52
2420	-6.67	21.53	-1.2
2430	-6.62	21.78	-1.11
2440	-6.67	21.53	-1.07
2450	-6.17	24.15	-0.4
2460	-5.91	25.64	0.12
2470	-5.73	26.92	0.48
2480	-5.69	26.98	0.27
2490	-5.49	28.25	0.32
2500	-5.13	30.69	0.5
5150	-6.38	23.04	1.37
5200	-5.98	25.26	1.39

Frequency / MHz	Efficiency / dB	Efficiency / %	Gain/ dB
5250	-5.69	26.95	1.75
5300	-5.67	27.13	2.2
5350	-6.32	23.31	1.16
5400	-6.96	20.15	0.24
5450	-5.54	27.95	2.19
5500	-5.26	29.8	2.9
5550	-6.35	23.46	1.53
5600	-6.61	21.85	0.73
5650	-6.37	23.09	0.95
5700	-6.27	23.63	0.61
5750	-6.12	24.57	0.61
5800	-6.37	23.09	1.09
5850	-7.08	19.58	2.44

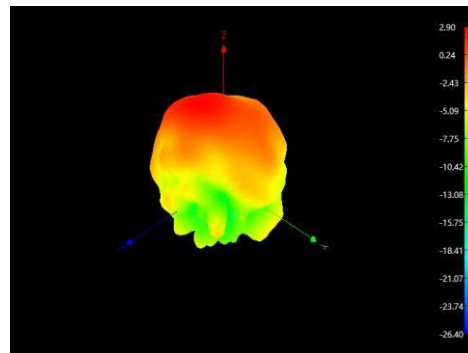
3D for ANT-1



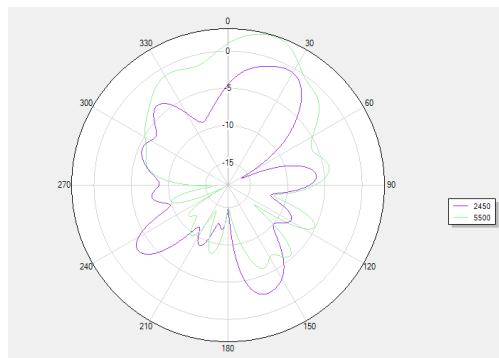
3D for ANT-2



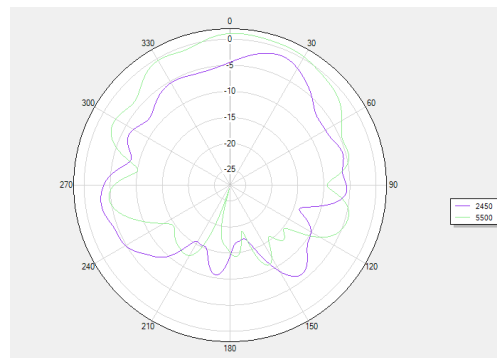
2500Mhz



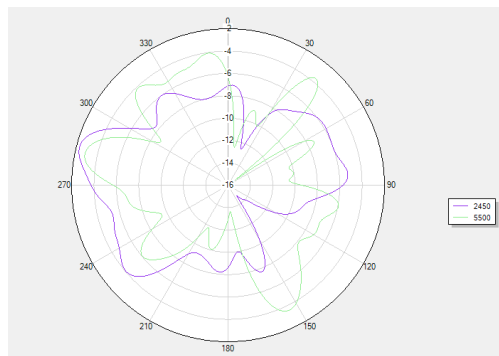
5500Mhz



Phi 0



Phi 90



Theta 90

