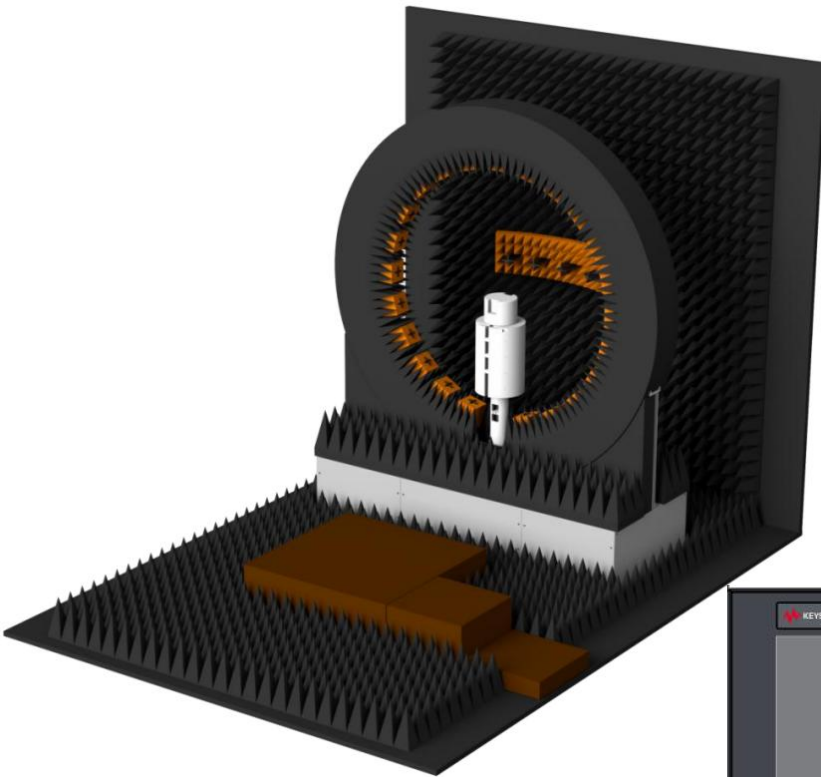


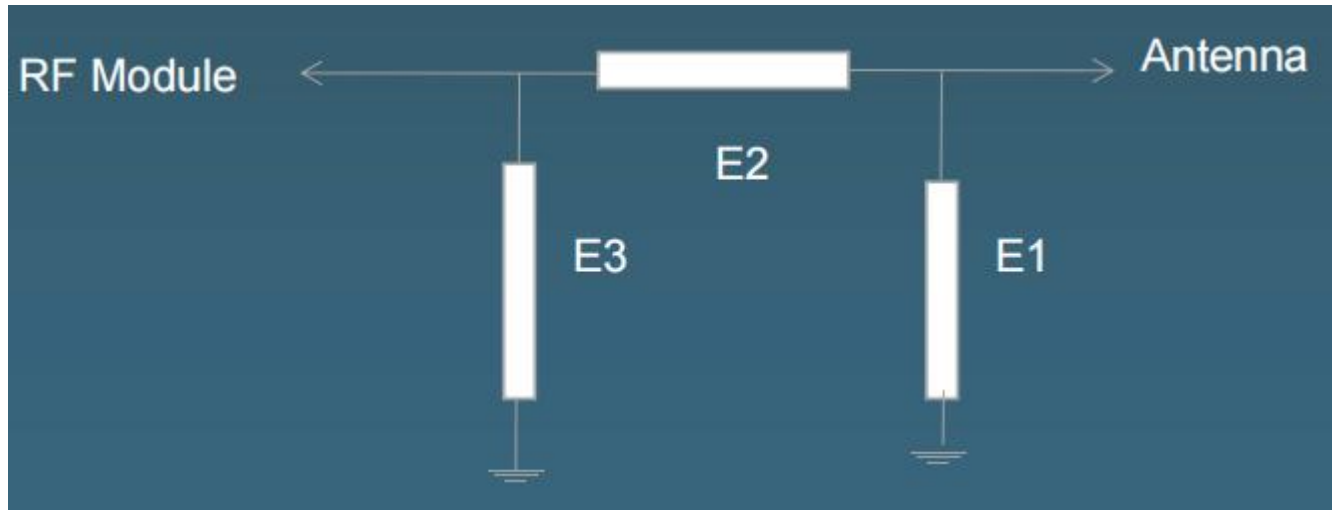
Test Setup for Radiation Pattern Measurement



QUIPMENT	BRAND	MODULE TYPE
Network Analyzer	KEYSIGHT	E5071C 9k~8.5G
Signal Generator	R&S	CMW 500
Microwave anechoic chamber	XH-IOE	ATS-300



antenna matching circuit



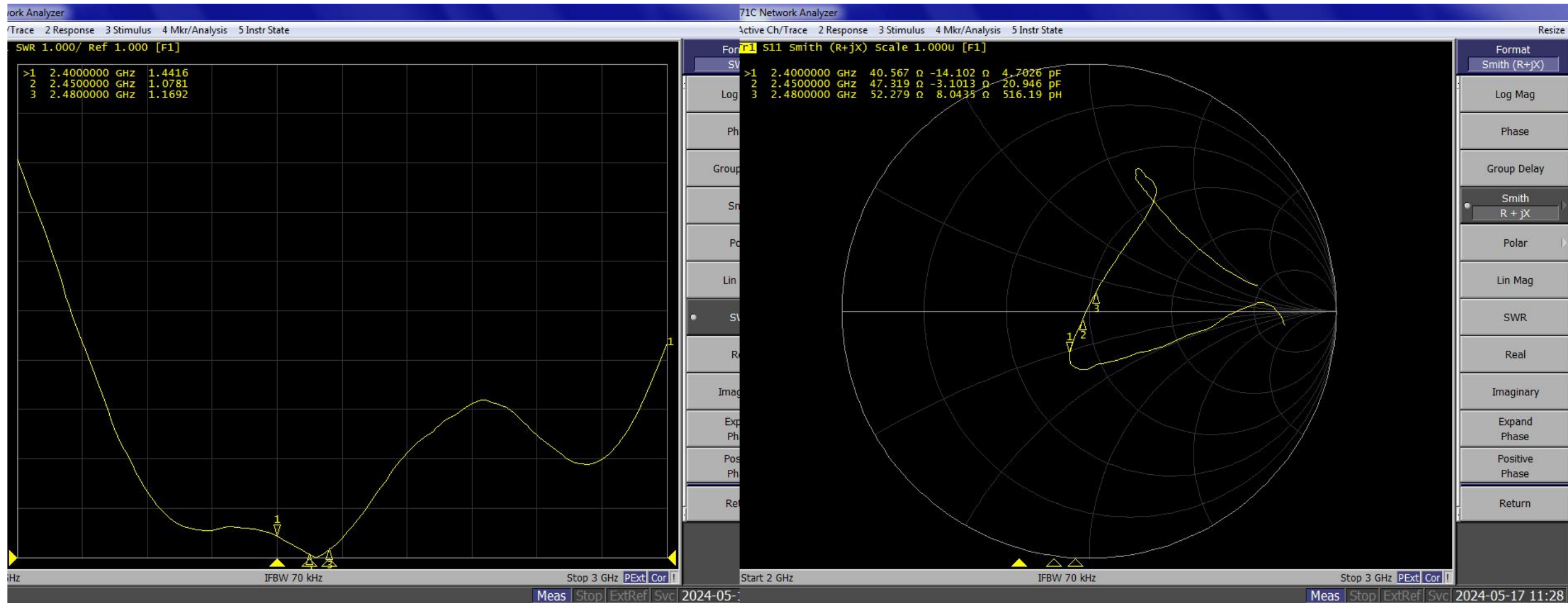
Any changes:

No change
Modified

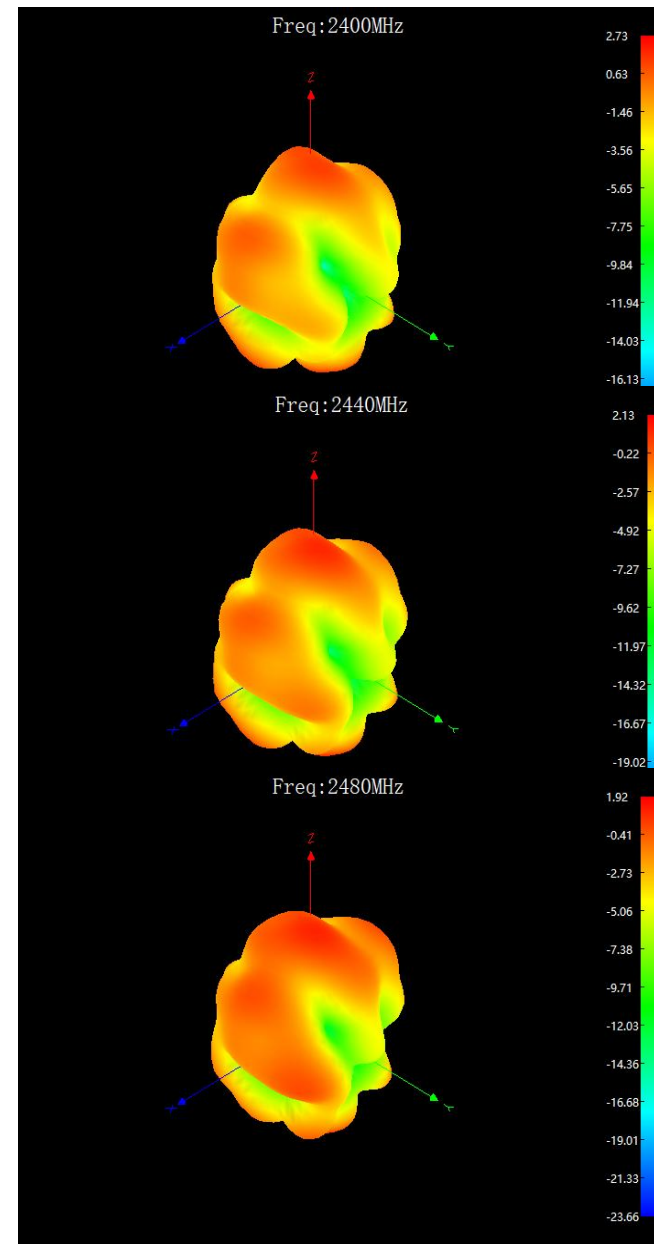
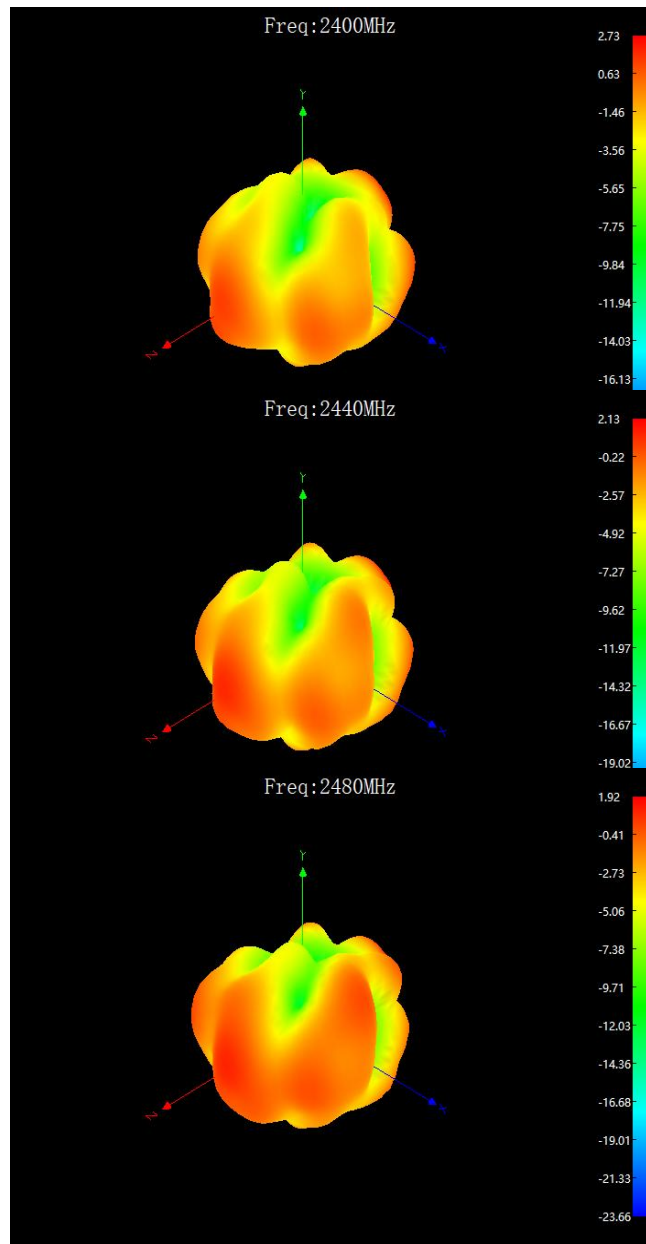
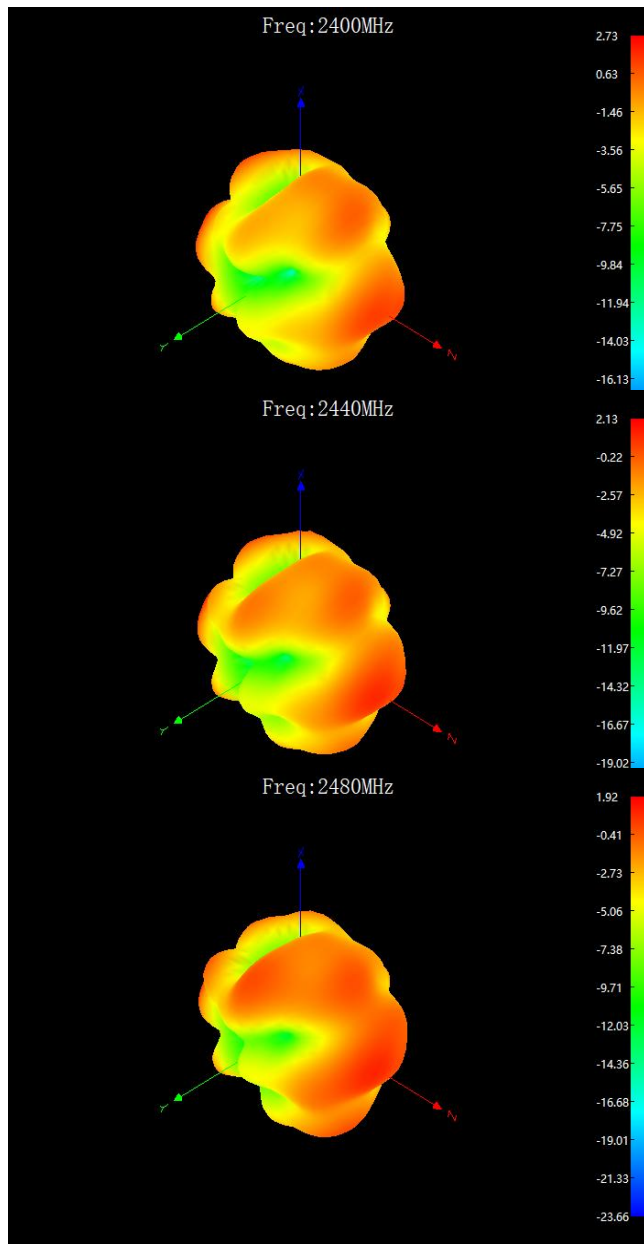
✓

Element	Value
E1(0402)	NC
E2(0402)	0R
E3(0402)	NC

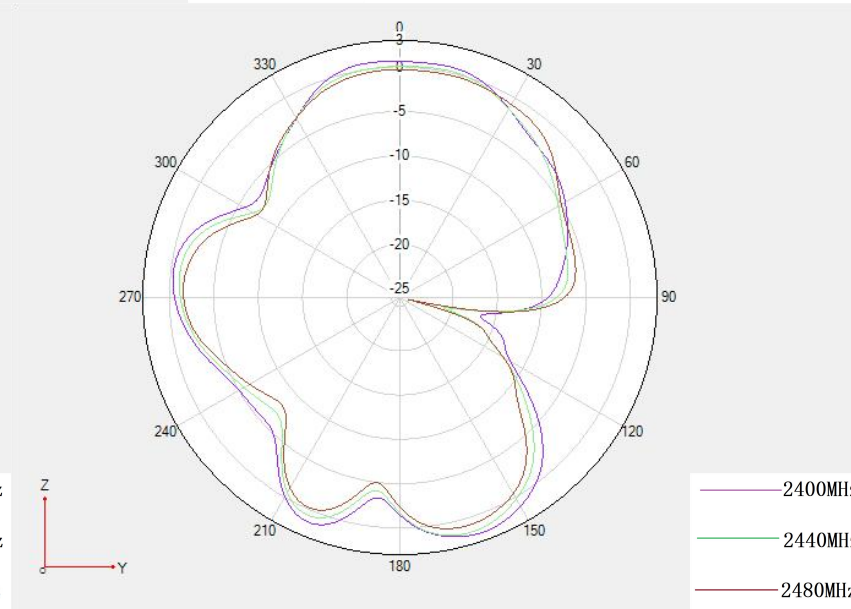
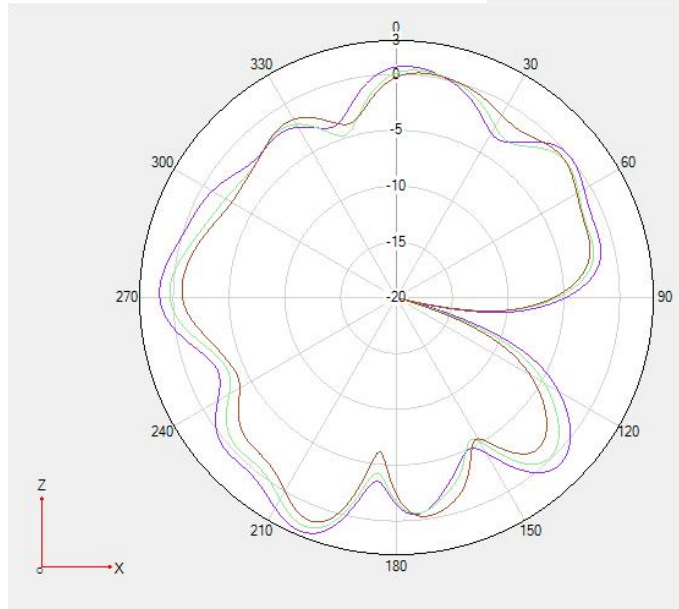
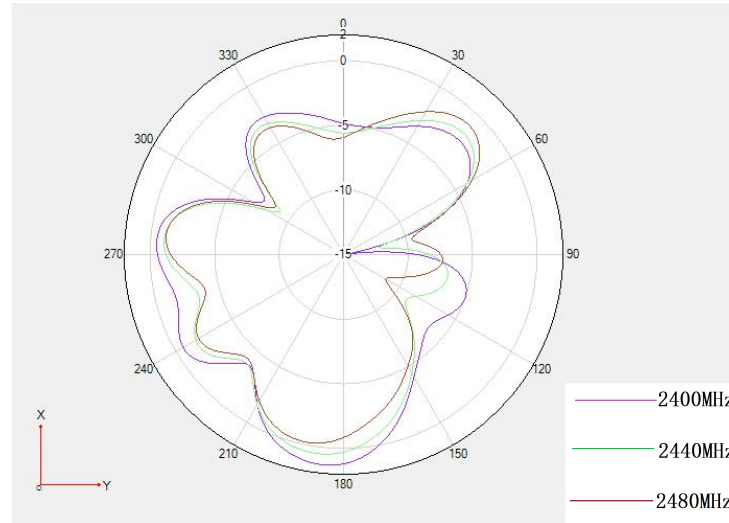
VSWR Results/Smith chart



3D Radiation Pattern Results (unit: dBi)



2D Radiation Pattern Results (unit: dBi)



Results Summary-Peak Gain & Efficiency

Frequency/Mhz	Efficiency / dB	Efficiency / %	MaxGain/dBi
2400	-2.5	56.23	2.73
2405	-2.34	58.34	2.8
2410	-2.44	57.02	2.61
2415	-2.4	57.54	2.55
2420	-2.17	60.67	2.66
2425	-2.12	61.38	2.65
2430	-2.21	60.12	2.5
2435	-2.32	58.61	2.26
2440	-2.37	57.94	2.13
2445	-2.28	59.16	2.35
2450	-2.27	59.29	2.44
2455	-2.26	59.43	2.4
2460	-2.32	58.61	2.35
2465	-2.4	57.54	2.33
2470	-2.43	57.15	2.27
2475	-2.51	56.1	2.08
2480	-2.51	56.1	1.92
2485	-2.42	57.28	1.99

TRP&TIS (OTA Test Data) :

DUT NO.	Channel	Frequency	Test data(dBm)	
			TRP	TIS
1#	0	2402	NA	NA
	39	2441	NA	NA
	78	2480	NA	NA

Conclusion (结论)

- Average efficiency 58%, Meet preset standards.

ANT Specification:

Item		
Max gain	2.8dBi	
Polarization	Linear—Polarized Antenna	
Impedance	50 Ω	
Antenna Size	21.02mm*9.5mm	
Antenna Type	PCB Antenna	

重要说明 NOTICE



1

请贵司注意报告中的匹配是否更改、环境处理是否可行；这直接影响天线性能，若有异议请及时与本司联系；

Please pay attention to whether the matching in the report has changed and whether the environmental treatment is feasible; This will directly affect the antenna performance, if you have any objections, please contact us in time;

2

若贵司机器有更换物料、更新软件、环处理变更等，须及时提供最新状态机器来我司验证；

If your driver has replacement materials, updated software, environmental processing changes, etc., you must provide the latest status machine to our company for verification in time

3

若贵公司机器需送第三方验证或送检，请最好提供送测机器来我司测试验证OK后方可送测（因为主板、环境处理、天线组装等一致性会影响天线性偏差）

If your company's machine needs to be sent to a third party for verification or inspection, it is best to provide the test machine to our company to test and verify OK before sending it for testing (because the consistency of the motherboard, environmental treatment, antenna assembly and so on will affect the antenna deviation)