

Antenna measurement

Test Report

Customer: Amdox

RF: ZQX

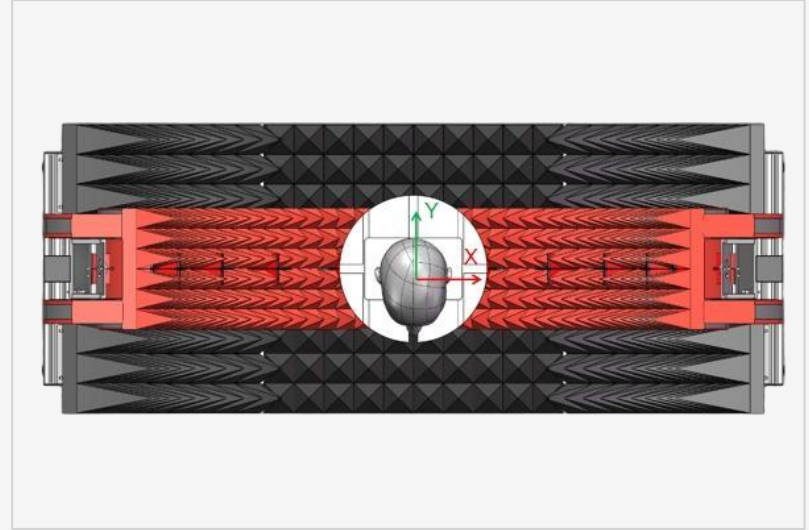
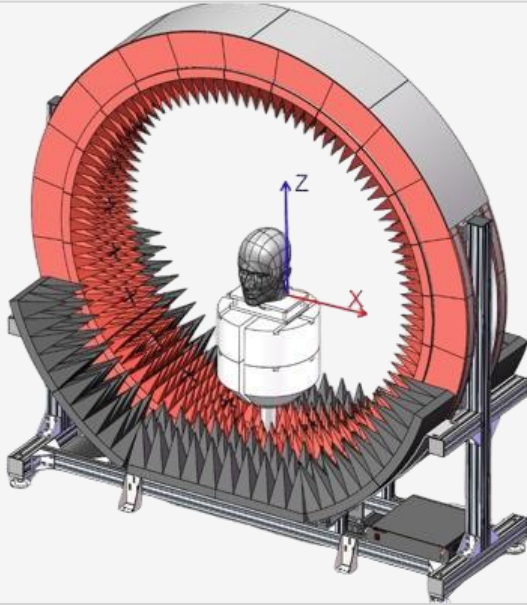
Date: 2026-07-15

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Contents

- 1.Project information
- 2.Test environment of test sample machine
- 3.Laboratory test environment and equipment
- 4.Antenna RF line matching
- 5.Antenna RF line matching
- 6.Antenna product diagram
- 7.Summary

Antenna test laboratory environment



Laboratory test environment and equipment

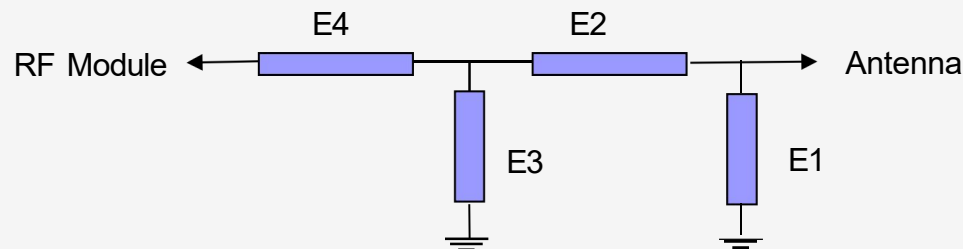


Test item	Testing equipment
S11、 S12 、 VSWR 、 LOSS	Network analyzer E5071C、 ZVB8
Efficiency、 Gain 3D Radiation Pattern	SG24 Dark room、 E5071C
TRP、 TIS	SG24 Dark room、 CMW500

Antenna test laboratory environment



Main antenna matching circuit



Main antenna	Element	Value	Figure caption
	E1(0402)	,	No modifications were made to the original matching circuit.
	E2(0402)	,	
	E3(0402)	,	
	E4(0402)	,	

Antenna Test Data Specifications

Frequency(MHz)	2400-2500MHz 5150-5850MHz
Gain(dBi)	2.4G MAX Gain:3.75dBi 5G MAX Gain:5.51dBi
model	A1
Antenna type	FPC ANT

VSWR/LOSS/Voltage standing wave/loss



Antenna passive test data

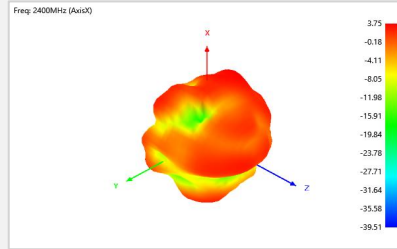
Frequency(MHz)	Gain(dBi)	Efficiency(dB)	Efficiency(%)
2400	3.75	-4.06	39.27
2405	3.72	-4.1	38.86
2410	3.63	-4.12	38.71
2415	3.55	-4.11	38.82
2420	3.47	-4.06	39.26
2425	3.38	-3.98	40.04
2430	3.36	-3.88	40.93
2435	3.27	-3.87	41.07
2440	3.17	-3.87	41.01
2445	3.13	-3.86	41.11
2450	3.19	-3.81	41.56
2455	3.21	-3.8	41.7
2460	3.17	-3.86	41.08
2465	3.19	-3.94	40.38
2470	3.25	-4.01	39.76
2475	3.25	-4.08	39.06
2480	3.17	-4.17	38.28

Frequency(MHz)	Gain(dBi)	Efficiency(dB)	Efficiency(%)
2485	2.88	-4.34	36.77
2490	2.36	-4.58	34.85
2495	1.71	-4.84	32.79
2500	1.13	-5.07	31.09
5150	4.86	-4.76	33.45
5175	4.58	-4.93	32.15
5200	4.61	-4.77	33.31
5225	4.56	-4.68	34.03
5250	4.45	-4.48	35.64
5275	4.34	-4.3	37.17
5300	4.62	-4.09	38.95
5325	4.65	-4.15	38.5
5350	4.65	-4.25	37.56
5375	4.38	-4.33	36.89
5400	4	-4.55	35.08
5425	3.51	-4.79	33.2
5450	3.64	-4.55	35.11

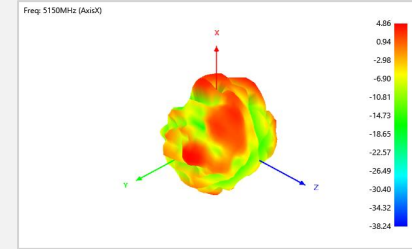
Frequency(MHz)	Gain(dBi)	Efficiency(dB)	Efficiency(%)
5475	3.55	-4.7	33.91
5500	4.03	-4.51	35.4
5525	4.12	-4.59	34.79
5550	4.6	-4.1	38.89
5575	4.78	-4.03	39.5
5600	4.82	-4.04	39.43
5625	4.81	-4.07	39.16
5650	4.63	-4.05	39.39
5675	4.38	-4.16	38.41
5700	4.41	-4	39.85
5725	4.56	-3.74	42.24
5750	4.61	-3.63	43.34
5775	4.79	-3.58	43.85
5800	4.92	-3.57	43.95
5825	5.04	-3.49	44.8
5850	5.51	-3.51	44.53

3D direction diagram

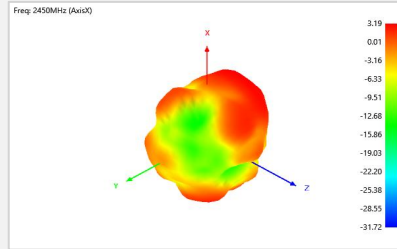
2400MHZ



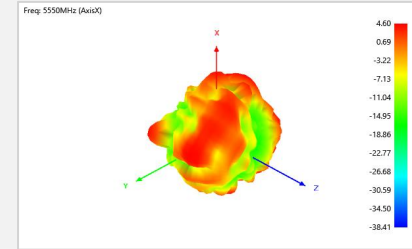
5150MHZ



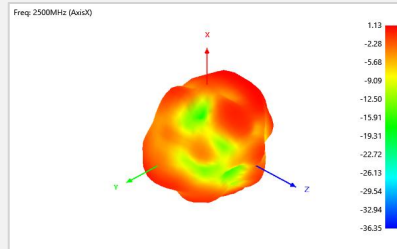
2450MHZ



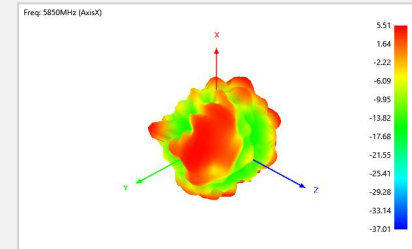
5550MHZ



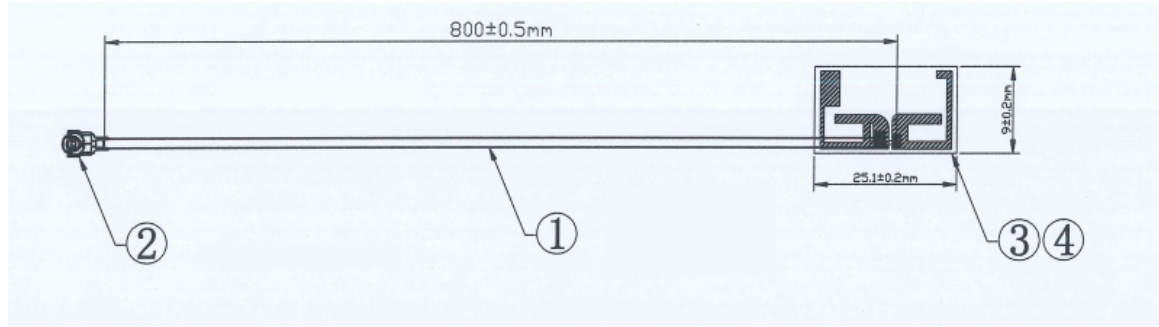
2500MHZ



5850MHZ



Processing size drawing



THE END