

Antenna measurement

Test Report

Customer: Amdox

RF: ZQX

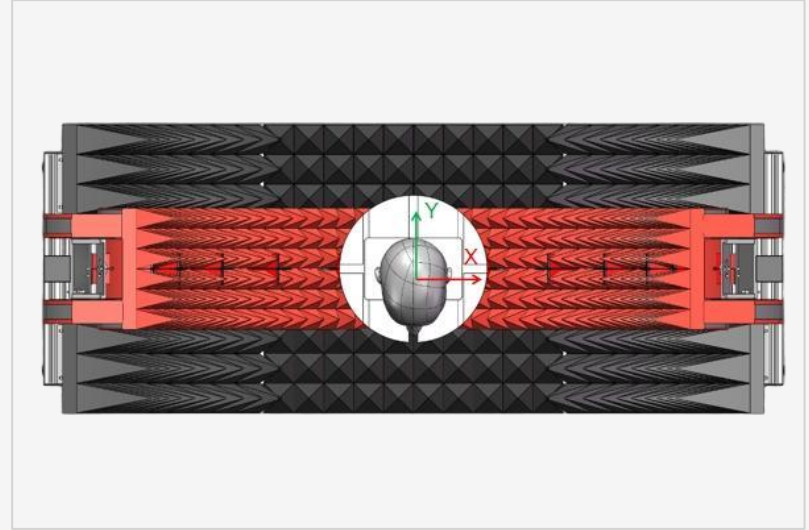
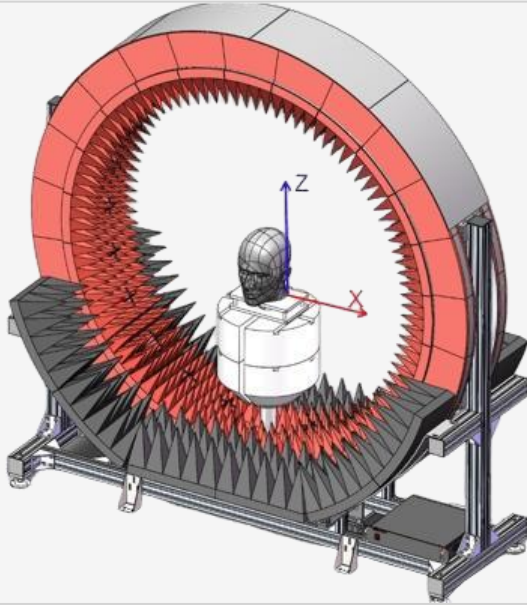
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Antenna test laboratory environment



Laboratory test environment and equipment

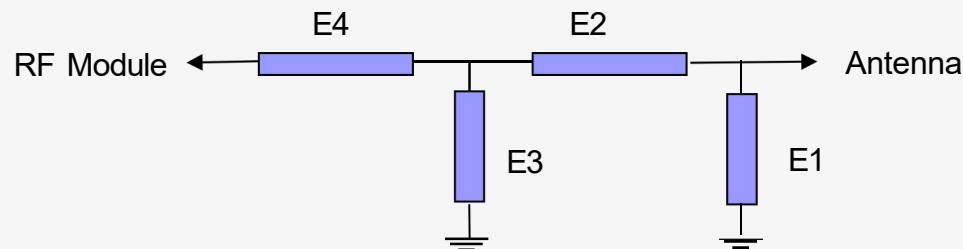


Test item	Testing equipment
S11、 S12 、 VSWR 、 LOSS	Network analyzer E5071C、 ZVB8
Efficiency、 Gain 3D Radiation Pattern	SG24 Dark room、 E5071C
TRP、 TIS	SG24 Dark room、 CMW500

Antenna test laboratory environment



Main antenna matching circuit



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

Antenna Test Data Specifications

Frequency(MHz)	Frequency (MHz)
Gain(dBi)	Gain(dBi)
Efficiency(dB)	功Power ratio(dB)
Efficiency(%)	Radiation power(%)

VSWR/LOSS/Voltage standing wave/loss



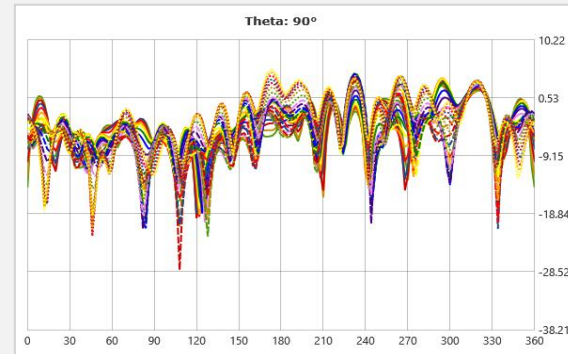
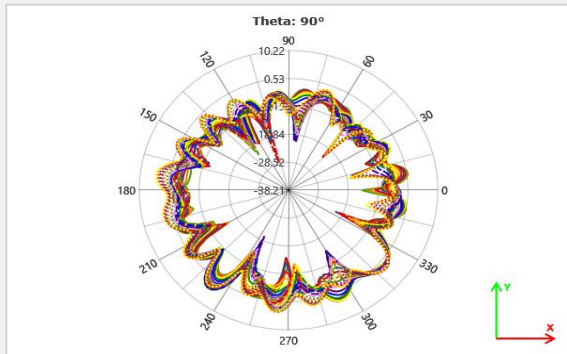
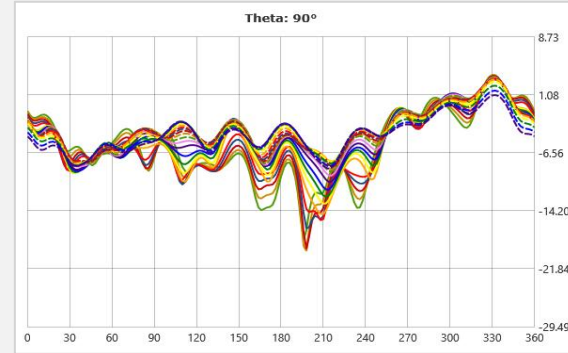
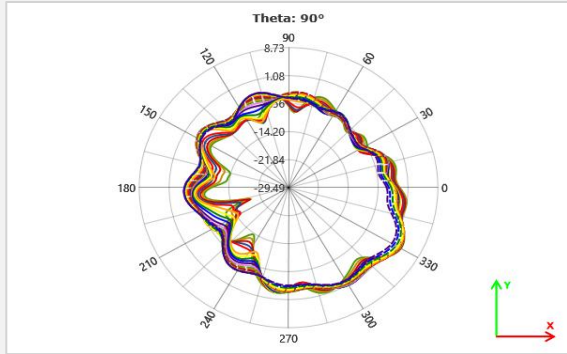
Antenna passive test data

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

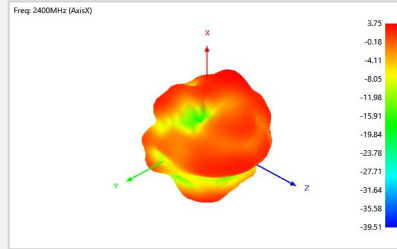
Frequency(MHz)	Gain(dBi)	Efficiency(dB)	Efficiency(%)
5475	3.55	-4.7	33.91
5500	4.03	-4.51	35.4
5525	4.12	-4.59	34.79
5550	4.6	-4.1	38.89
5575	4.78	-4.03	39.5
5600	4.82	-4.04	39.43
5625	4.81	-4.07	39.16
5650	4.63	-4.05	39.39
5675	4.38	-4.16	38.41
5700	4.41	-4	39.85
5725	4.56	-3.74	42.24
5750	4.61	-3.63	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

2D radiation direction diagram

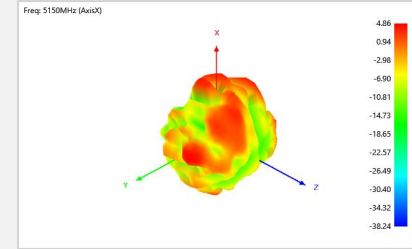


3D direction diagram

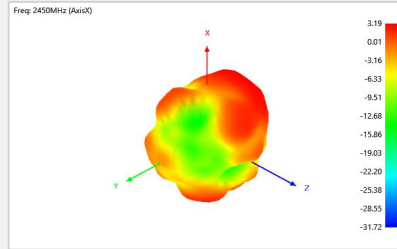
2400MHZ



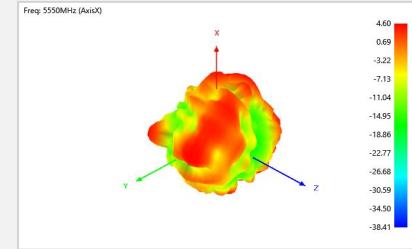
5150MHZ



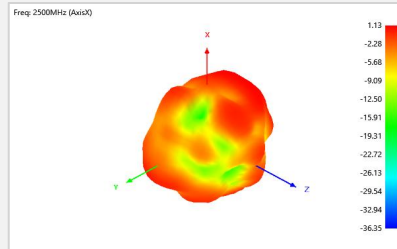
2450MHZ



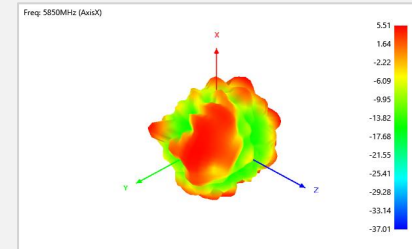
5550MHZ



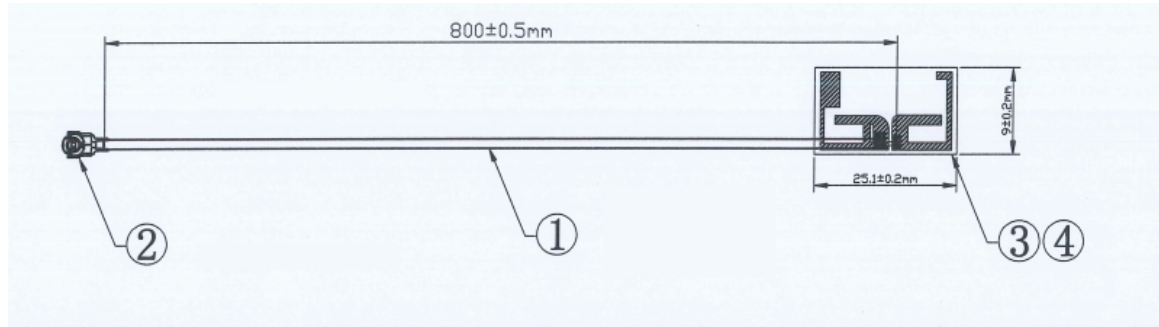
2500MHZ



5850MHZ



Processing size drawing



THE END