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test report

TEST REPORT

PCB Antenna

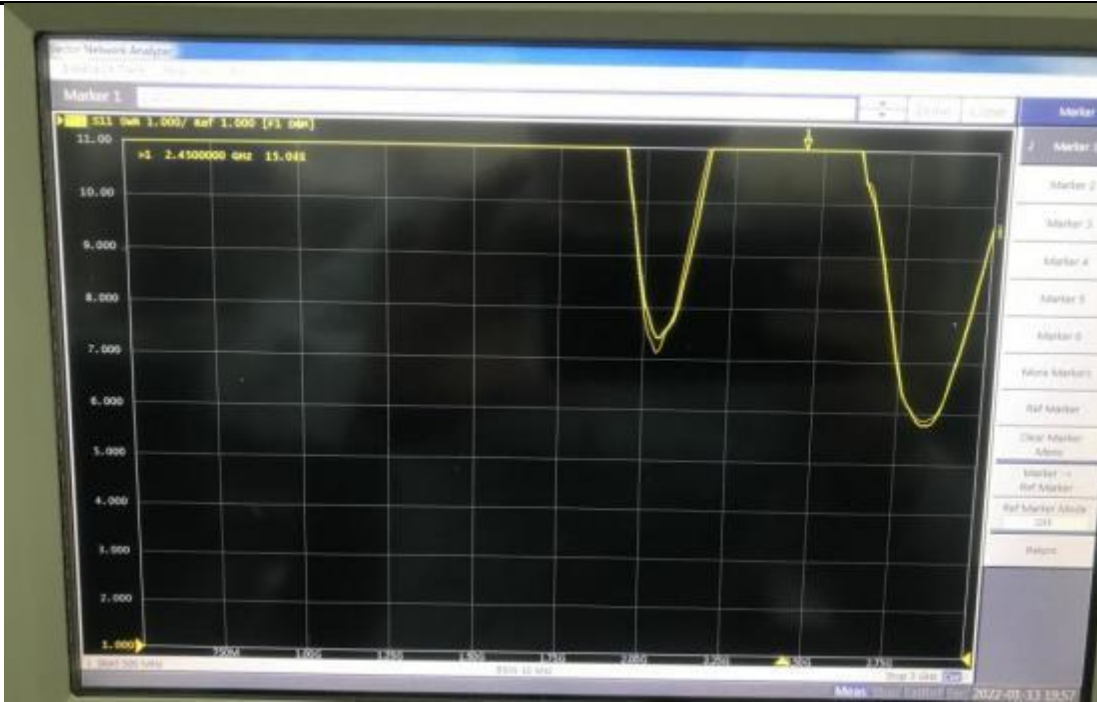
catalogue

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1. Project profile

product name	Ontology board antenna		
Frequency and Antenna material	service frequency		material quality
	Single frequency point	2450 MHz	PCB on board
Test requirements	Single-frequency point body antenna passive test		
measuring and test instruments	brand	Agilent Network analyzer	
	model	E5071C	
	brand	Dark Room SATIMO-24 (3D)	

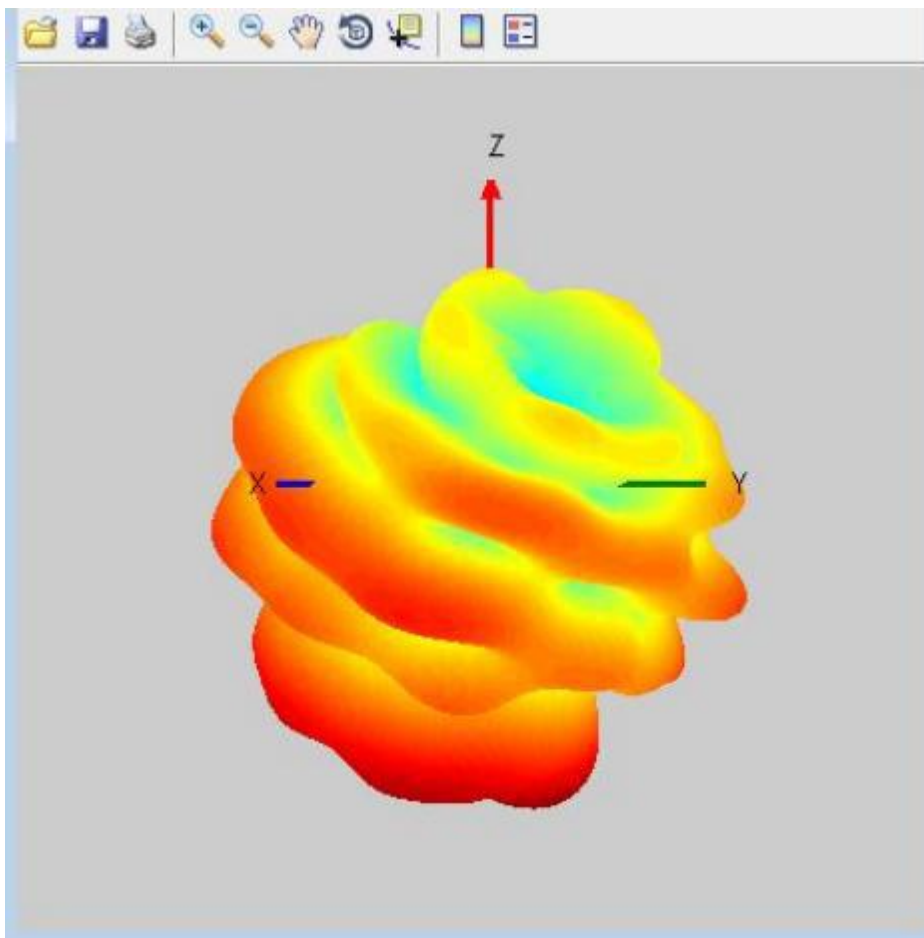
2. VSWR



3. Dark Room Test Results (Passive Result)

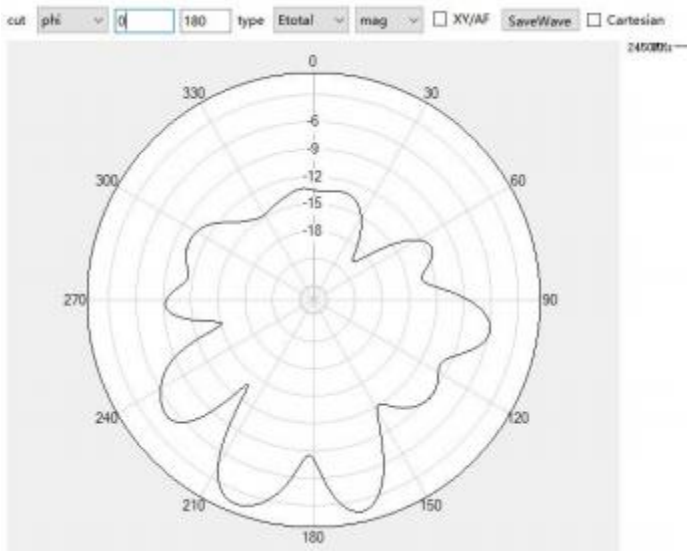
Model	Frequency(MHz)	Efficiency(%)	Gain(dbi)	VSWR
/	2450	11.98	-3.89	15

1.13D Apple Figure Pattern Plots of Passive

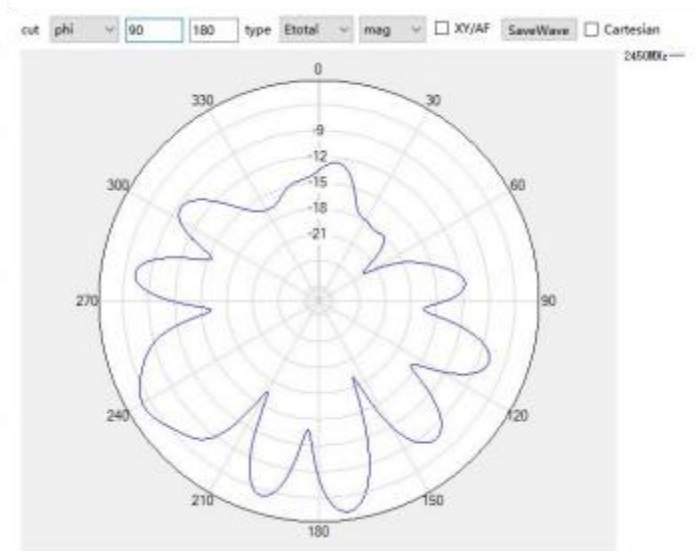


3D -2450MHz

1.2 Direction Figure 2D Pattern Plots of Passive



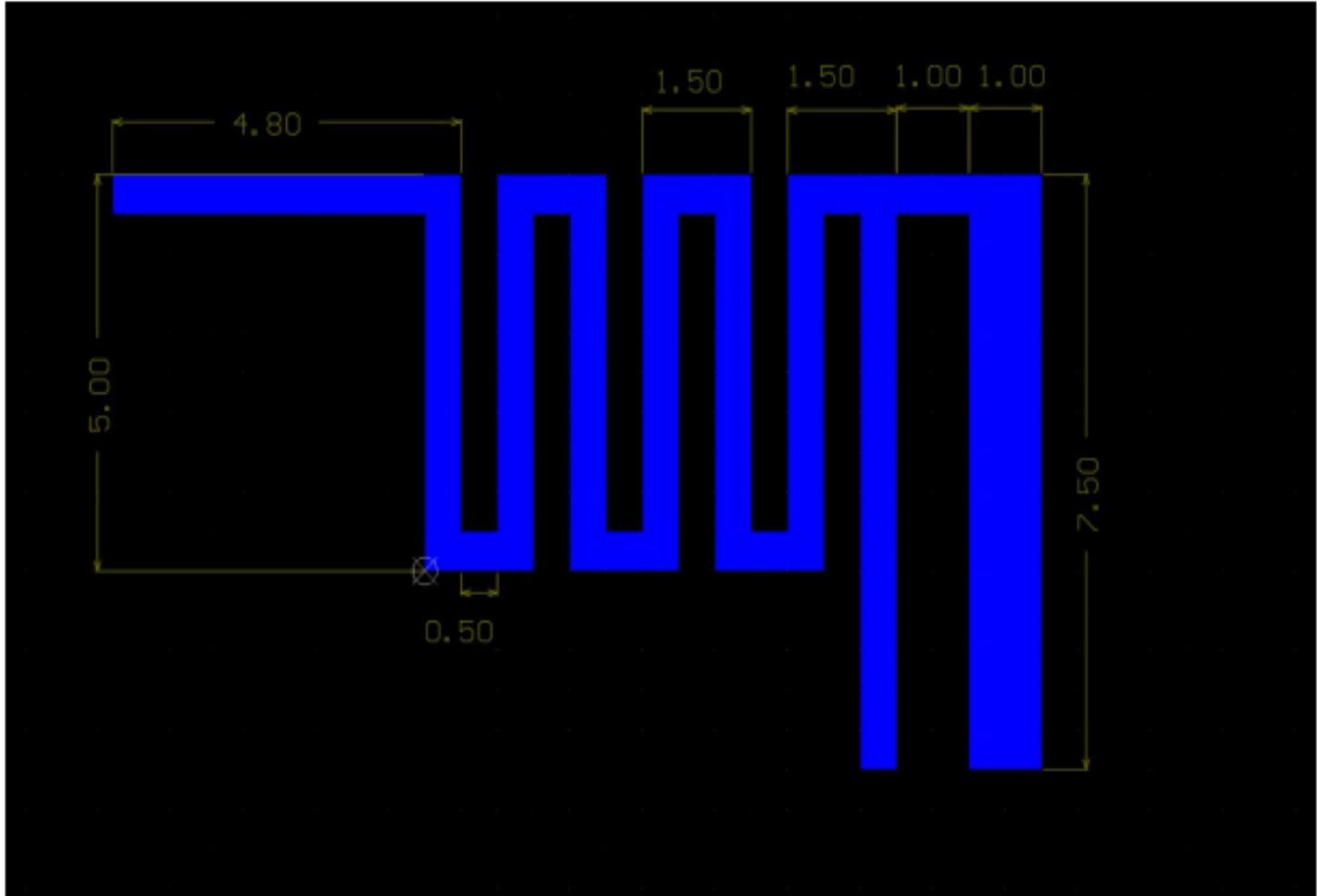
2450MHz -E1



2450MHz -E2

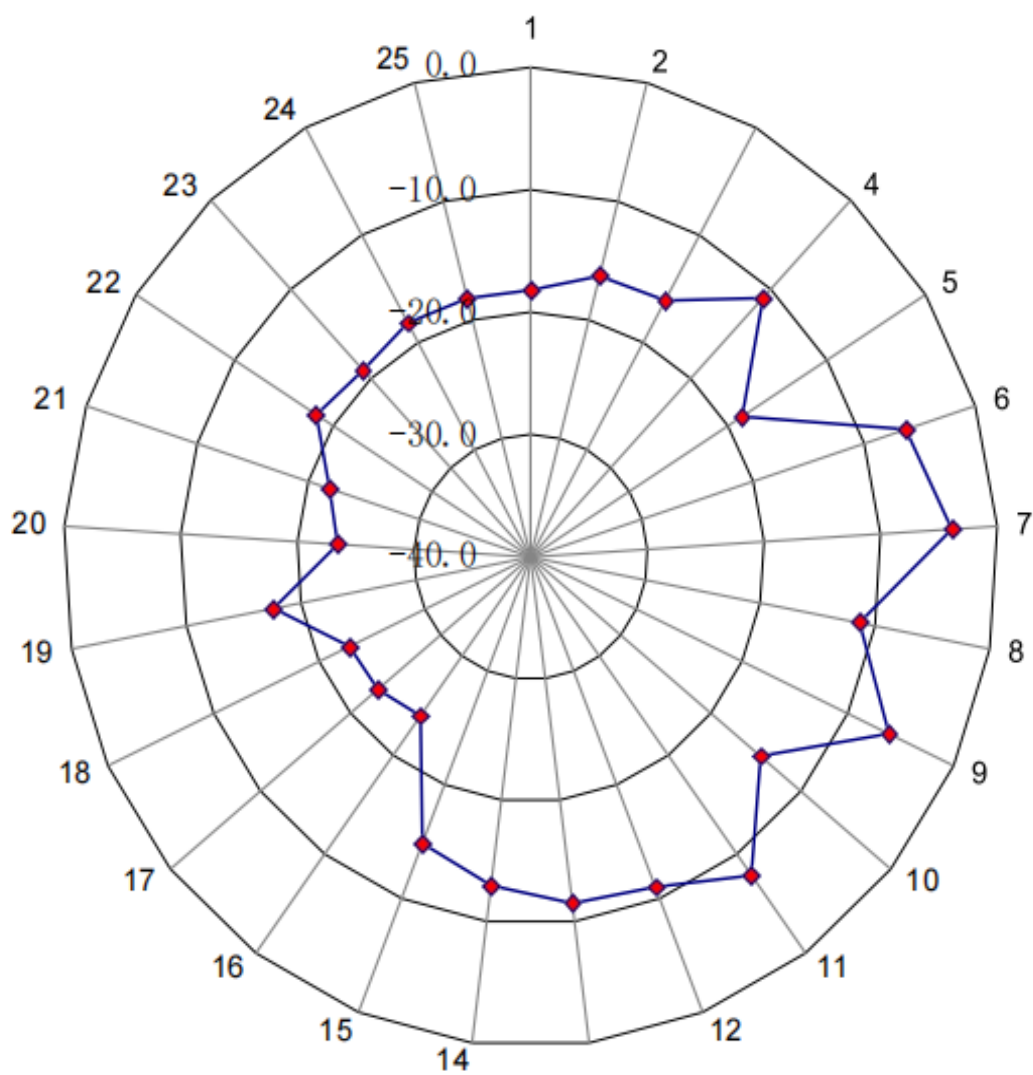
4. conclusion

This report is based on the antenna performance measured in the final version of the antenna.



Test Mode:	Mode 1	Polarization:	Horizontal	MAX Gain:	-3.89
Angle of Turn Table (°)	SG Output Level (dBm)	2450MHz Reading Level (dBm)	2450MHz Substitution Level (dBm)	2450MHz Cable Loss (dBi)	2450MHz Antenna Gain (dBi)
0	-20	-47.20	8.00	1.00	-18.20
15	-20	-45.30	8.00	1.00	-16.30
30	-20	-45.10	8.00	1.00	-16.10
45	-20	-39.96	8.00	1.00	-10.96
60	-20	-47.58	8.00	1.00	-18.58
75	-20	-35.25	8.00	1.00	-6.25
90	-20	-32.90	8.00	1.00	-3.89
105	-20	-40.37	8.00	1.00	-11.37
120	-20	-35.11	8.00	1.00	-6.11
135	-20	-43.48	8.00	1.00	-14.48
150	-20	-36.87	8.00	1.00	-7.87
165	-20	-40.01	8.00	1.00	-11.01
180	-20	-40.49	8.00	1.00	-11.49
195	-20	-41.97	8.00	1.00	-12.97
210	-20	-43.84	8.00	1.00	-14.84
225	-20	-52.96	8.00	1.00	-23.96
240	-20	-52.05	8.00	1.00	-23.05
255	-20	-51.85	8.00	1.00	-22.85
270	-20	-46.59	8.00	1.00	-17.59
285	-20	-52.44	8.00	1.00	-23.44
300	-20	-50.87	8.00	1.00	-21.87
315	-20	-47.28	8.00	1.00	-18.28
330	-20	-48.06	8.00	1.00	-19.06
345	-20	-47.17	8.00	1.00	-18.17
360	-20	-47.20	8.00	1.00	-18.20

Horizontal at 2450MHz



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