

		document number :	
Specification For Approval			
customer name : Customer:			
Supplier Name: Customer:	Dongguan Zhongyida Electronic Technology Co., LTD		
Customer part number:		Supplier part number:	
product description :	F107-1.13 black L=300 mm-generation 1 terminal	Supported models:	
Supplier Acknowledgment (Seal):		Customer Acknowledgment (Seal):	
Production: Zhou Jingfeng	Structure: Zhou Jingfeng		
examine and verify :	Date: 2024.03.20		

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1.Product Pictures



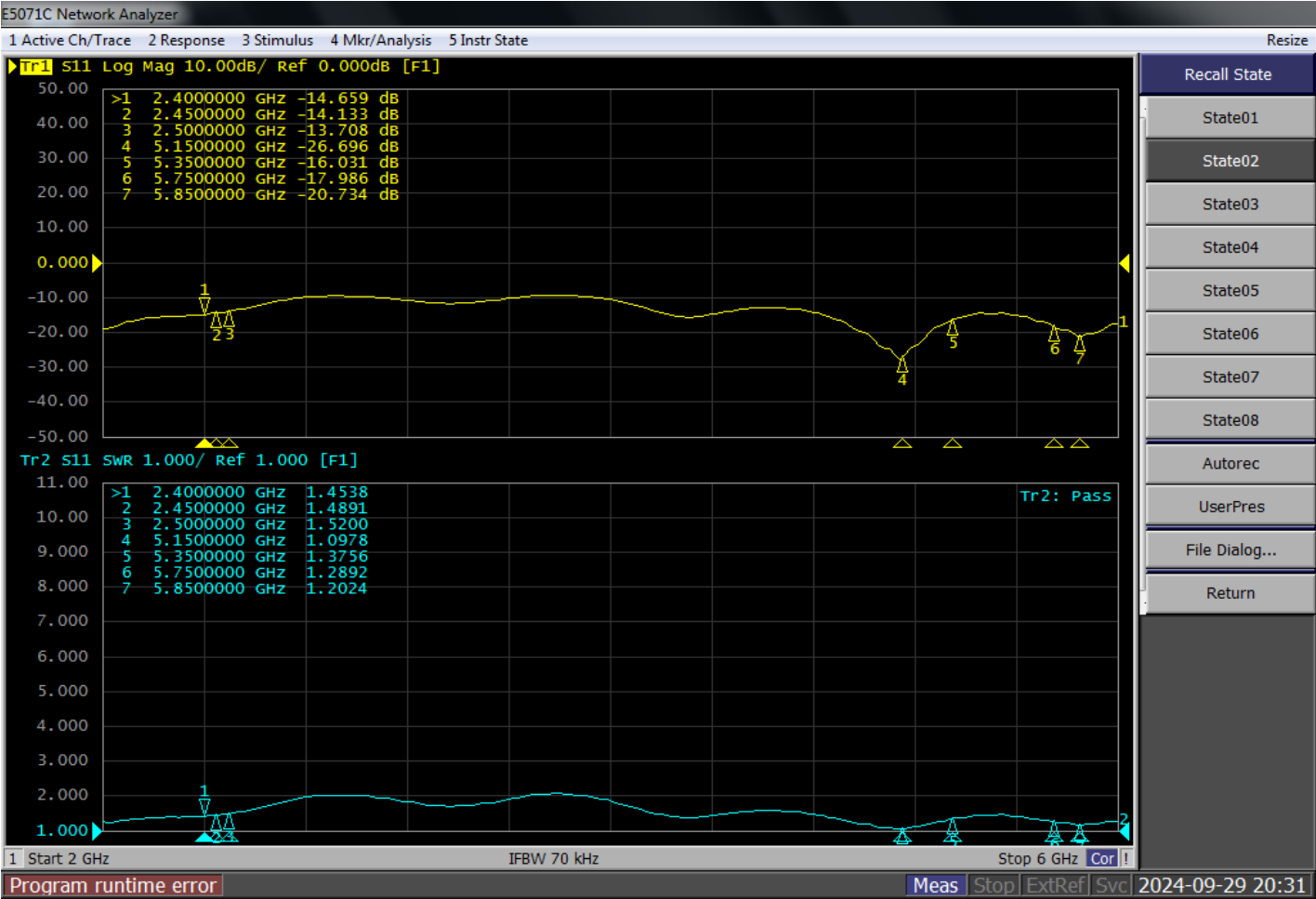
II. Product Parameters

Product test parameters			
Product Name (Name)	Built-in soft board antenna	Product model (Model Type)	F107-1.13 black L=300mm- Generation 1 terminal-acceptance certificate
Electrical performance indicators (electrical specifications)			
Frequency range	2400-5800MHZ	Polarization mode (PM)	perpendicular
Input impedance (Impedance)	50 Ω	radiation direction	omnidirectional
Voltage to wave ratio (VSWR)	≤2	Power capacity (power)	50W
gain (Gain)	3dBi	Bandwidth (Bandwidth	100MHz

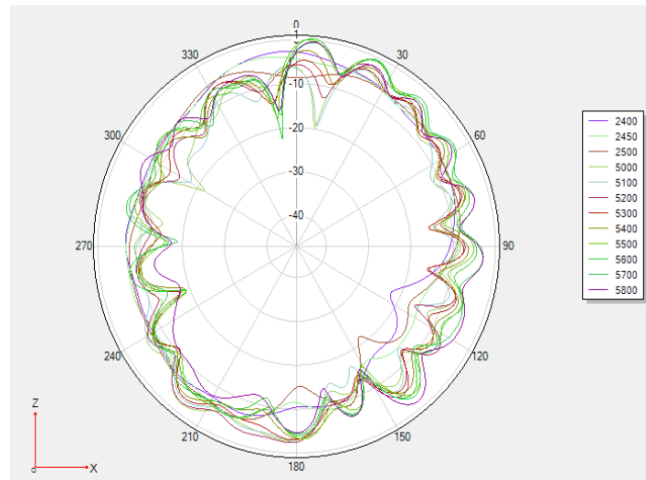
Mechanical specifications			
Dimensions	45mm*7mm	Antenna color (Chassis Color)	black
Connector model (Connector)	Generation 1 terminals	Cable length	300mm±5
Laminated material (Chassis Material)	FPC		
working temperature (Working Temperature)	-40℃±85℃	Storage temperature (Limit Temperature)	-40℃±85℃

III. S11 (VSWR, Return Loss, Smith) Data

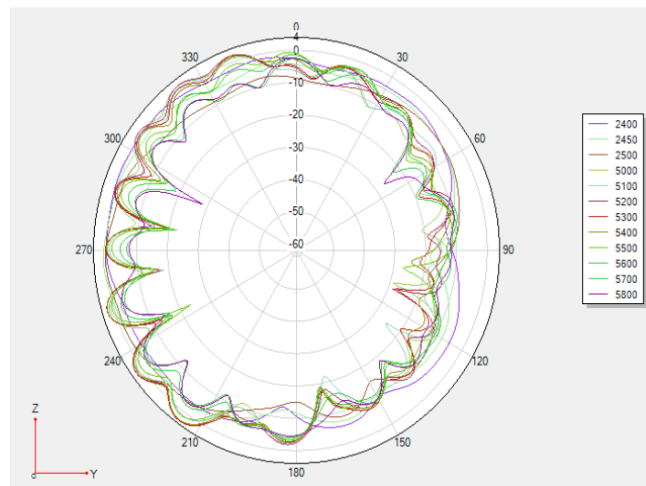
3.1 Network Analyzer Report



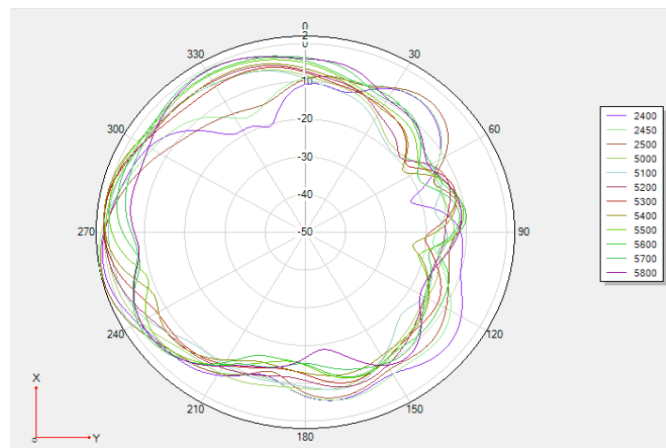
3.2 2D directional diagram



2400HMZ

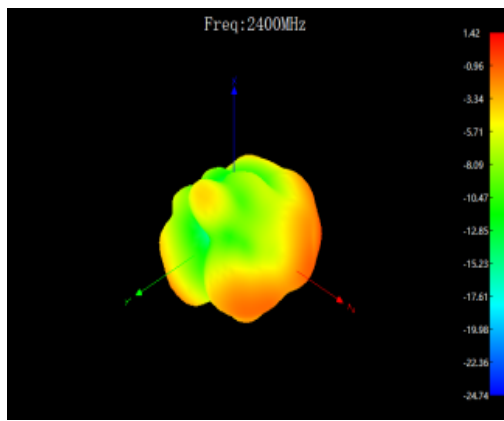


2450HMZ

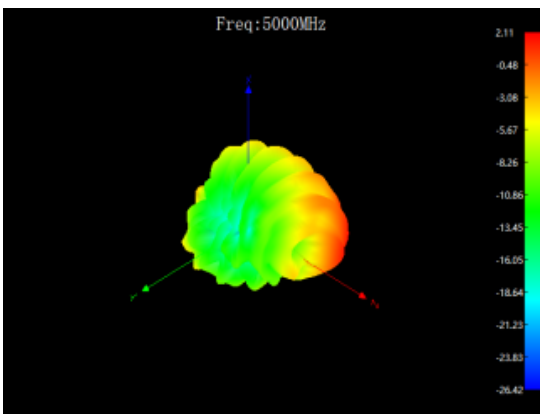


2500HMZ

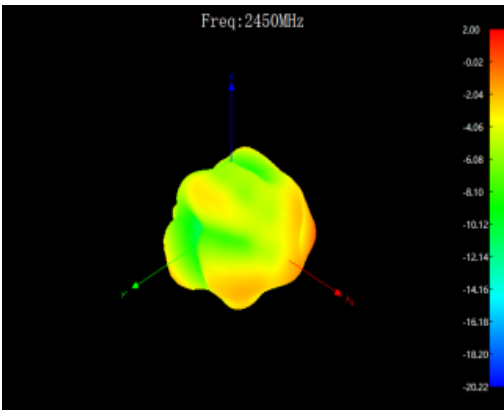
3.3 3D directional chart



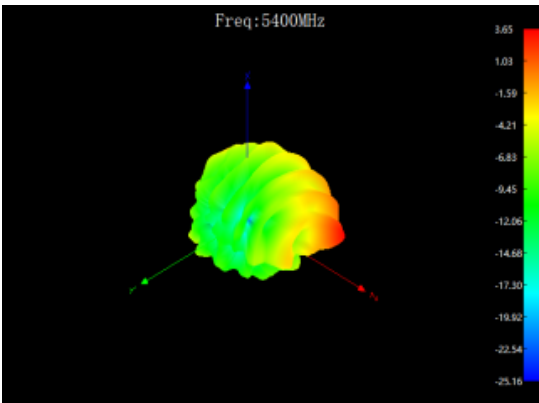
2400MHZ



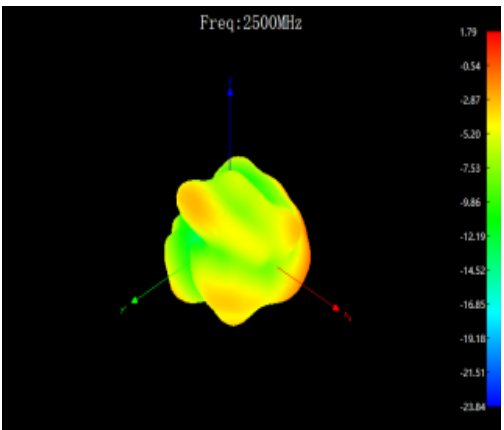
5000MHZ



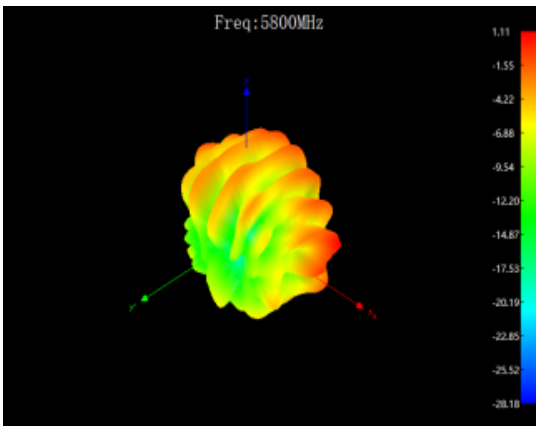
2450MHZ



5400MHZ



2500MHZ



5800MHZ

IV. Antenna Efficiency and Gain

Frequency	Efficiency	Efficiency / %	Frequency	MaxGain	AvgGain/dBi
2400	-5.36	29.11	2400	1.42	-5.36
2450	-5.32	29.38	2450	2	-5.32
2500	-5.99	25.18	2500	1.79	-5.99
5000	-5.66	27.16	5000	2.11	-5.66
5100	-5.92	25.59	5100	1.92	-5.92
5200	-5.07	31.12	5200	3.21	-5.07
5300	-5.49	28.25	5300	3.24	-5.49
5400	-5.46	28.44	5400	3.65	-5.46
5500	-5.11	30.83	5500	4.14	-5.11
5600	-5.18	30.34	5600	3.91	-5.18
5700	-5.45	28.51	5700	2.41	-5.45
5800	-5.88	25.82	5800	1.11	-5.88

V. Product Size Drawing

