
Antenna Test Report

Antenna test report

Manufacturer: Shenzhen Zhenyixing Technology Co., Ltd.

Model: WIFI6E

Customer Name:

Project Name:

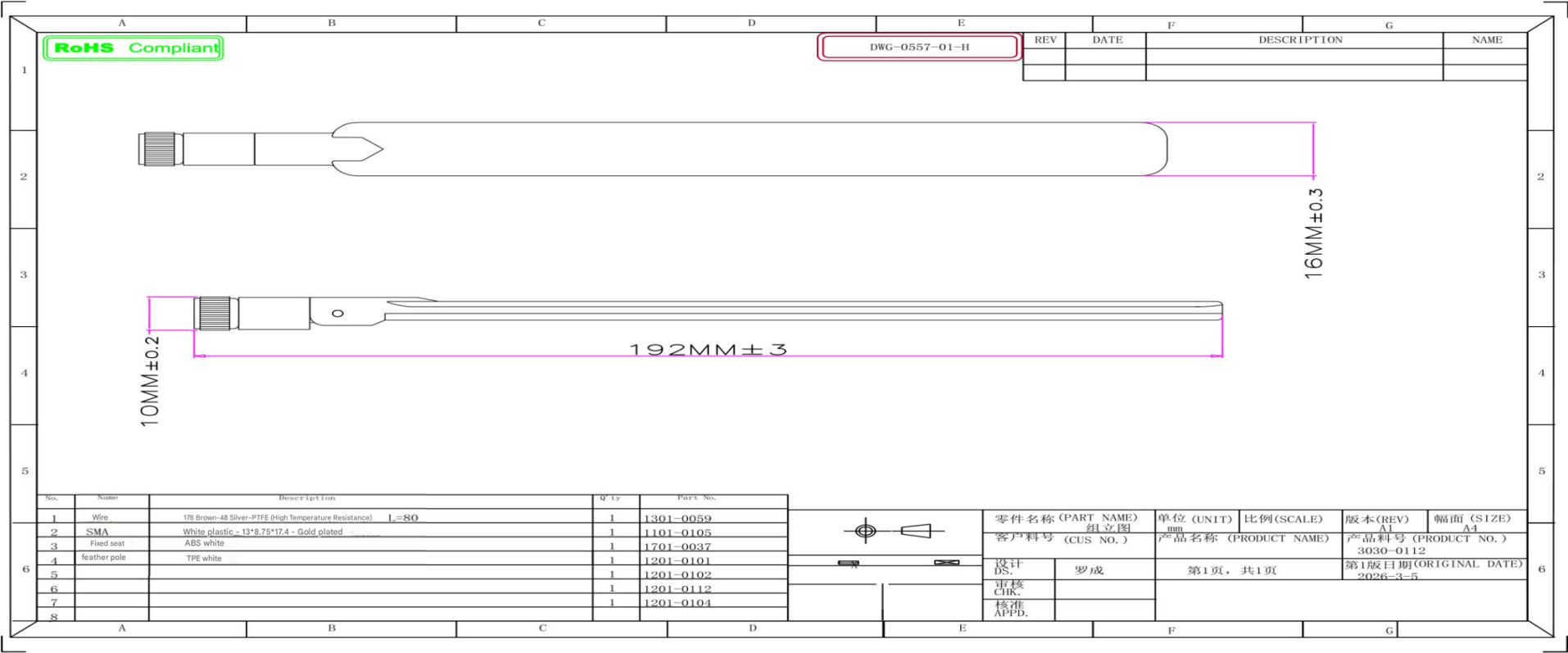
Operating frequency bands: 2400 MHz – 2500 MHz ,
5150 MHz – 5850 MHz

5925 MHz – 7200 MHz

Antenna type: WIFI6E glue rod antenna

Test date: 2026-03-03

一、Antenna plan view



二、Test items and equipment systems

1. Test Items

test items			
1. S-parameters	1. Return loss 2. Standing wave	network analyzer	Agilent 5071B
1. Radiation characteristics	1. Efficiency 2. Directional map	darkroom	RayZone2800 Microwave Anechoic Chamber

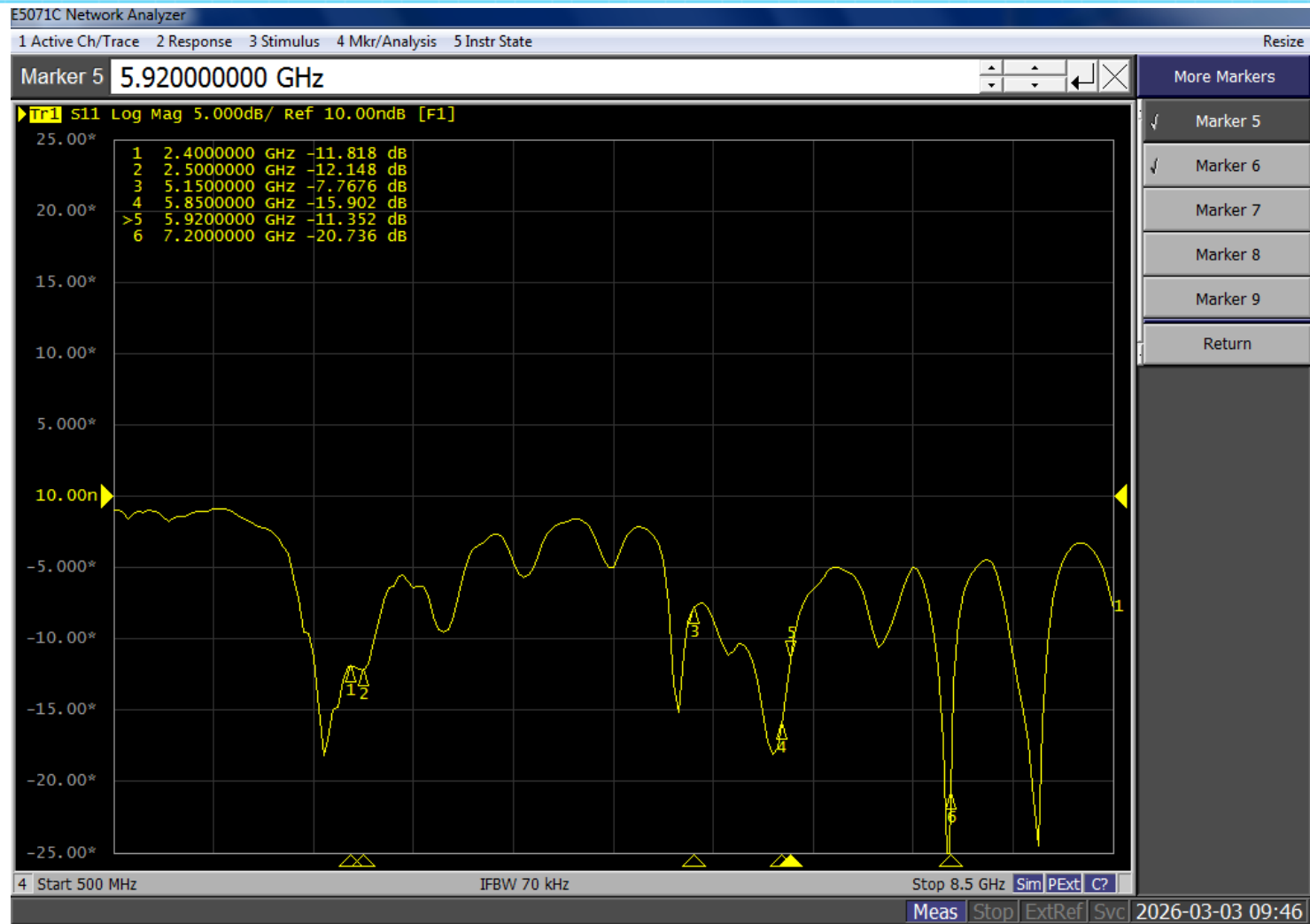
2. Equipment System



5071B RayZone2800



三、Antenna S-parameters

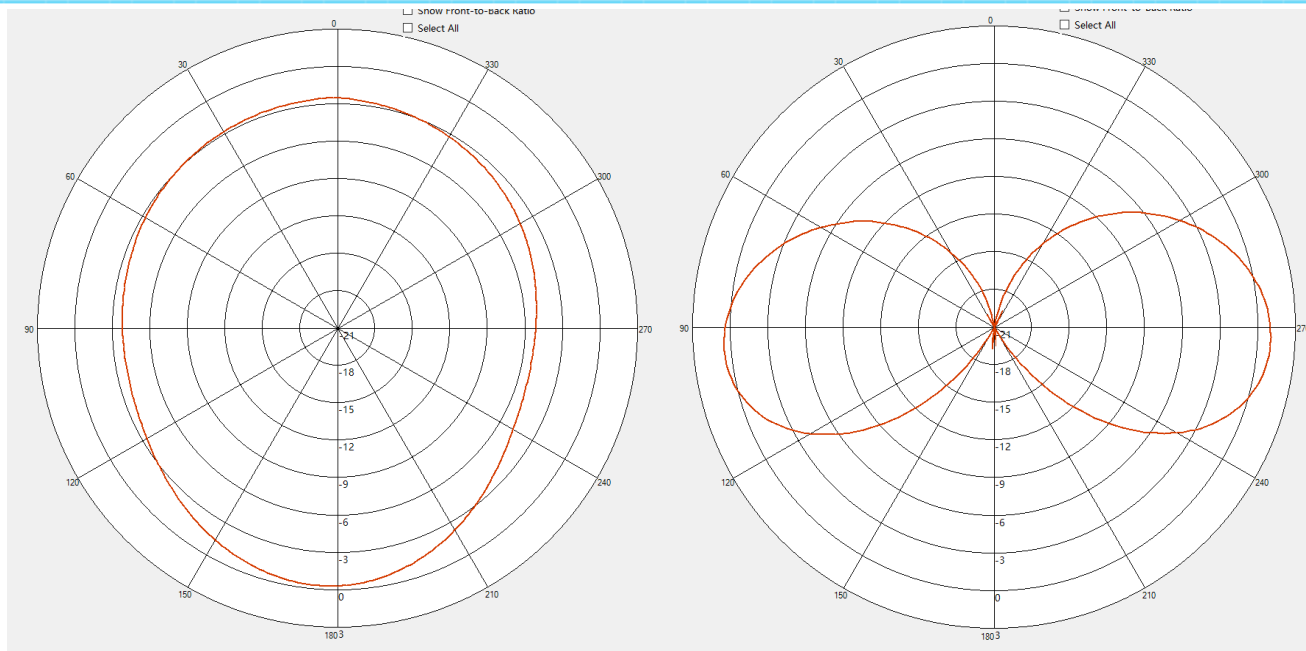


四、Antenna gain and efficiency

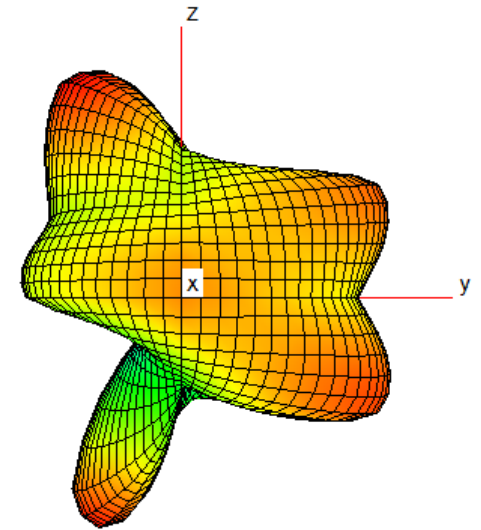
Freq (MHZ)	效率 (%)	Gian(dBi)	Freq (MHZ)	效率 (%)	Gian(dBi)	Freq (MHZ)	效率 (%)	Gian(dBi)	Freq (MHZ)	效率 (%)	Gian(dBi)
2400	41.84	-0.1	5140	29.3	-1.2	5940	34.8	0.6	6680	27.6	-3.5
2410	41.70	0.3	5160	29.4	-2.3	5960	34.4	0.4	6700	25.3	-3.1
2420	39.31	-0.3	5180	31.3	-1.9	5980	31.4	0.6	6720	22.4	-3.2
2430	40.82	-0.1	5200	32.6	-1.1	6000	28.4	0.8	6740	22.4	-2.9
2440	41.77	0.1	5220	35.9	-1.3	6020	33.5	0.6	6760	22.5	-3.3
2450	43.33	0.6	5240	37.5	-0.8	6040	30.4	0.5	6780	19.4	-3.4
2460	46.31	0.7	5260	37.0	-0.3	6060	25.4	0.2	6800	18.5	-3.9
2470	47.06	0.7	5280	37.2	-1.0	6080	29.1	0.4	6820	19.9	-3.7
2480	47.05	0.3	5300	39.4	-0.8	6100	30.1	0.0	6840	19.3	-4.2
2490	49.25	0.1	5320	41.1	0.5	6120	25.7	0.2	6860	19.5	-4.4
2500	47.40	-0.2	5340	40.3	0.0	6140	25.6	0.2	6880	19.2	-3.8
			5360	43.9	-0.2	6160	26.0	0.1	6900	18.8	-3.2
			5380	43.6	0.3	6180	24.1	-0.3	6920	20.1	-3.1
			5400	42.9	0.3	6200	24.8	-0.6	6940	23.3	-3.1
			5420	41.9	-0.1	6220	23.9	-0.6	6960	21.4	-3.7
			5440	43.5	0.1	6240	21.6	-0.6	6980	21.6	-3.7
			5460	43.5	0.3	6260	20.1	-0.5	7000	25.5	-2.3
			5480	43.7	0.1	6280	22.6	-0.7	7020	26.4	-3.4
			5500	43.8	0.2	6300	20.6	-0.8	7040	28.0	-3.1
			5520	40.2	0.3	6320	18.6	-0.9	7060	26.7	-2.2
			5540	38.3	-0.3	6340	19.1	-0.7	7080	29.3	-1.8
			5560	41.1	-0.3	6360	19.5	-1.2	7100	30.5	-1.8
			5580	42.7	0.9	6380	19.4	-1.3	7120	33.4	-1.9
			5600	38.0	0.3	6400	19.7	-1.2	7140	34.9	-1.2
			5620	39.7	-0.3	6420	21.6	-1.5	7160	34.6	-1.6
			5640	38.4	-0.7	6440	21.3	-1.7	7180	31.6	-1.0
			5660	34.3	-0.7	6460	20.3	-1.6	7200	33.7	-0.1
			5680	36.8	-0.4	6480	21.5	-1.4			
			5700	39.7	-0.3	6500	21.8	-1.7			
			5720	35.3	-0.1	6520	22.4	-2.0			
			5740	38.0	0.2	6540	25.9	-2.4			
			5760	41.1	0.1	6560	24.8	-2.8			
			5780	34.9	0.0	6580	25.9	-2.9			
			5800	34.8	0.5	6600	28.1	-2.8			
			5820	37.2	0.1	6620	26.1	-3.3			
			5840	38.2	0.4	6640	26.0	-2.8			
			5860	34.3	0.6	6660	25.7	-3.3			

五、Antenna pattern

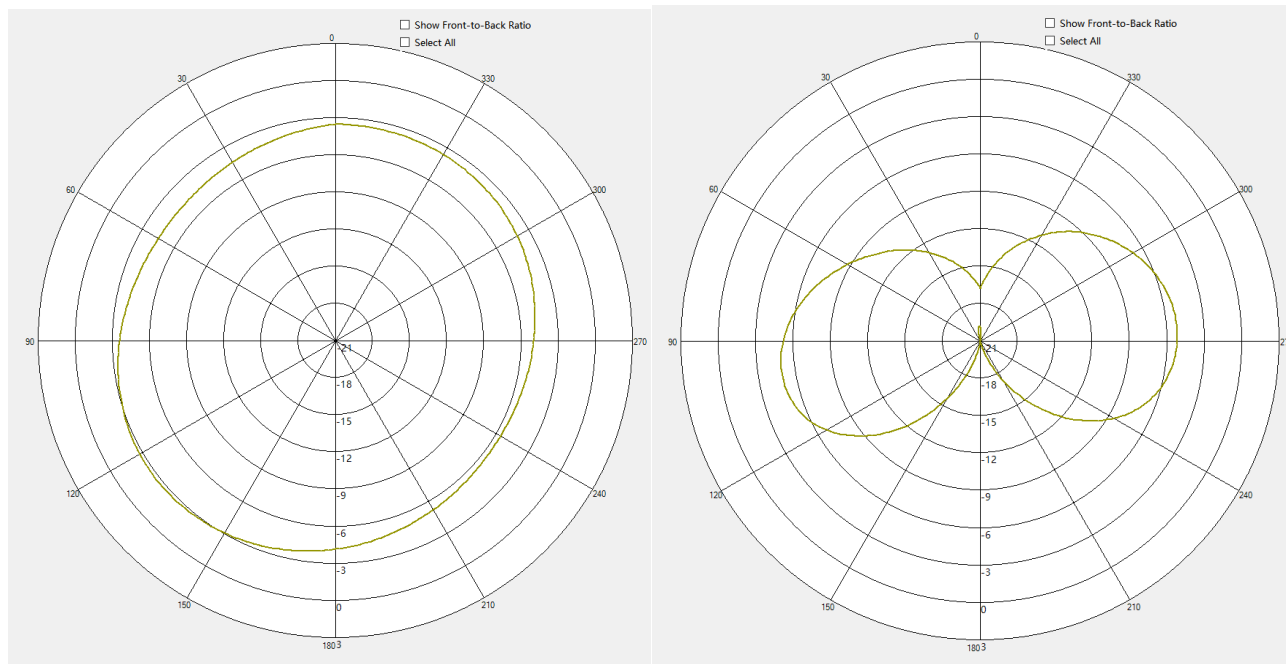
1. 2450MHz radiation pattern



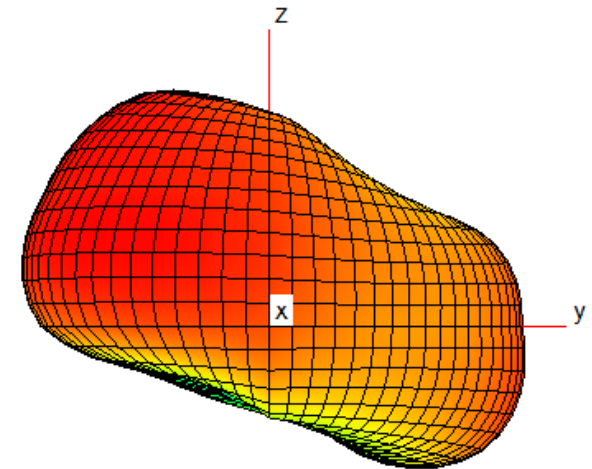
Horizontal and vertical 3D



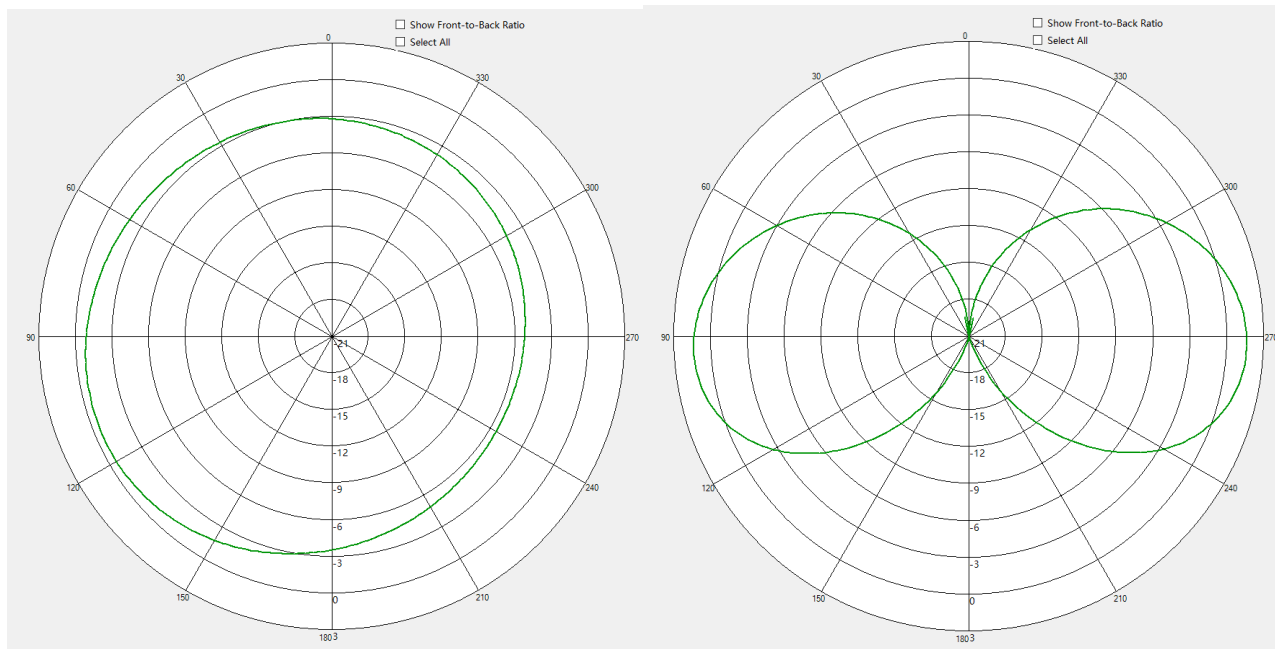
2. 5160MHz radiation pattern



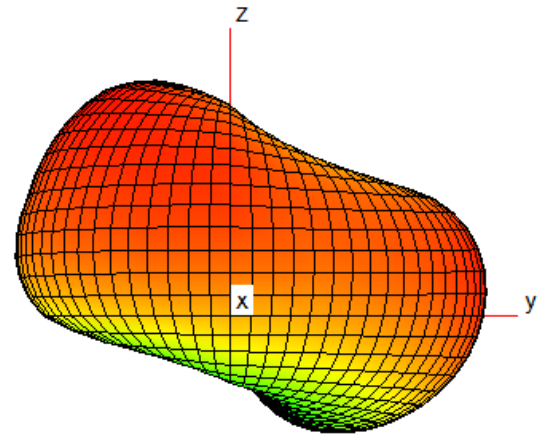
Horizontal and vertical 3D



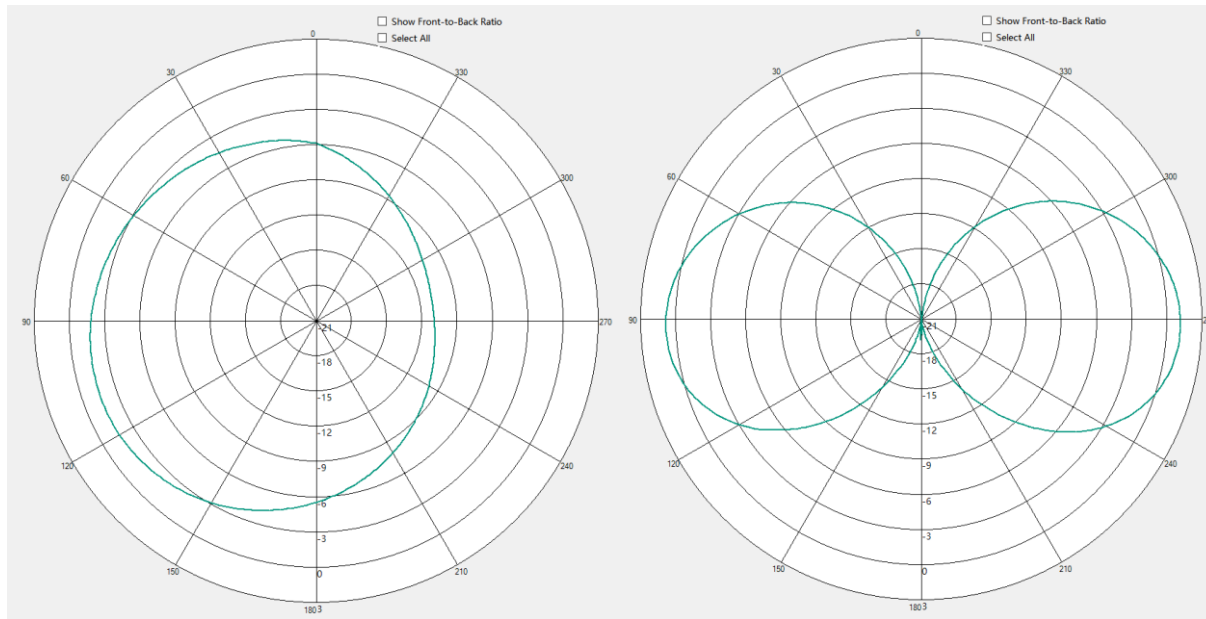
3. 5560MHz radiation pattern



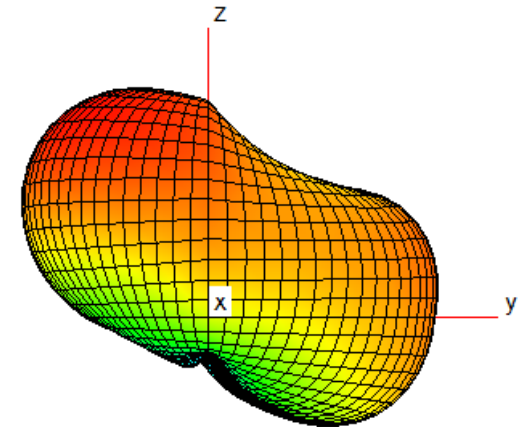
Horizontal and vertical 3D



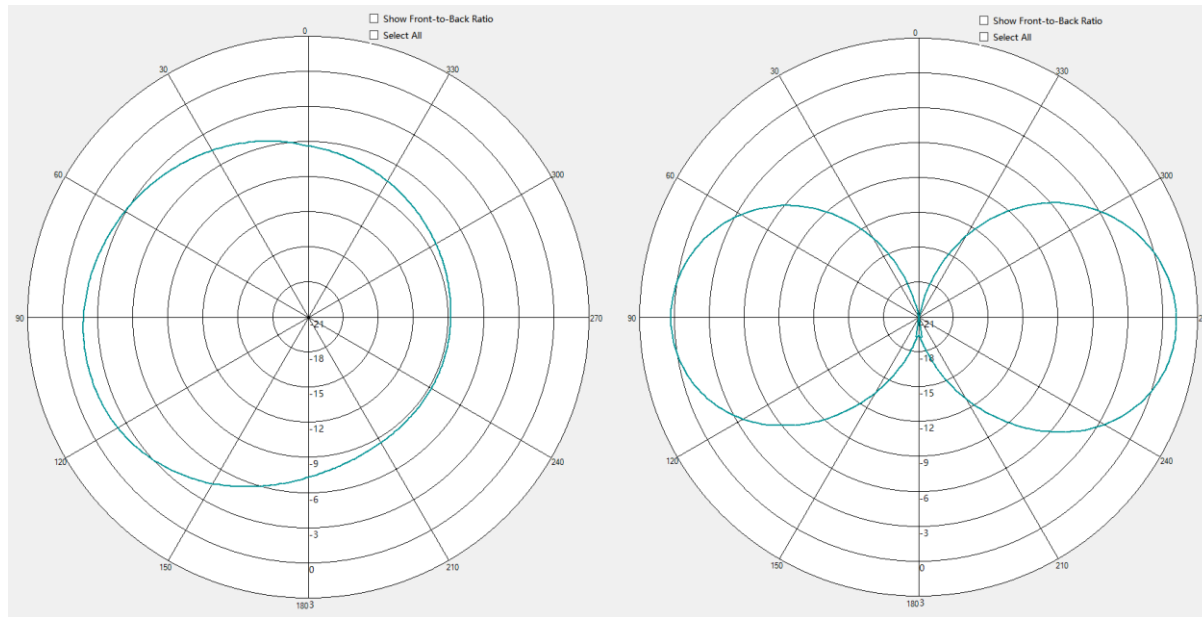
4. Radiation pattern at 5860MHz



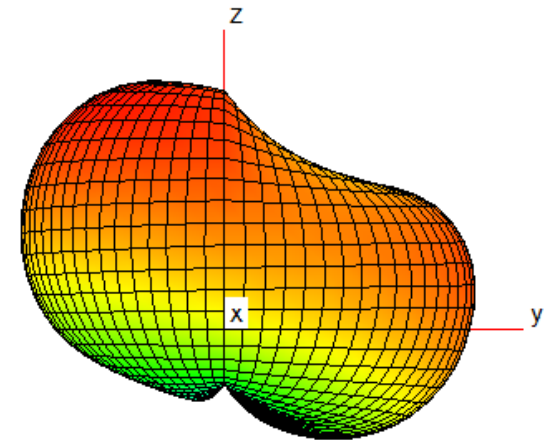
Horizontal and vertical 3D



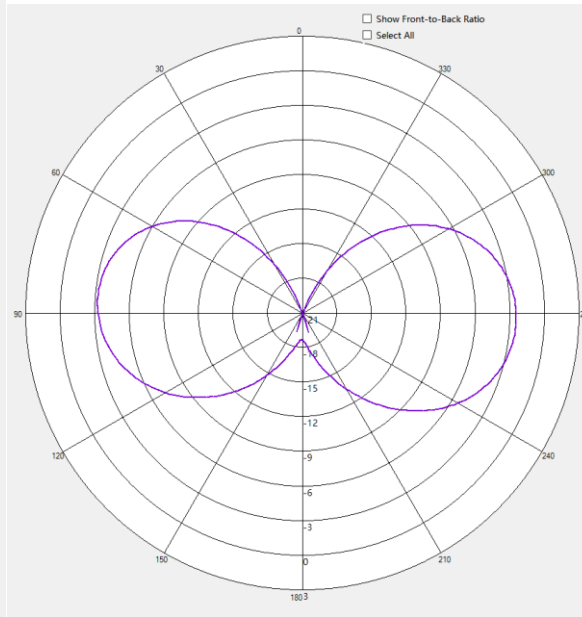
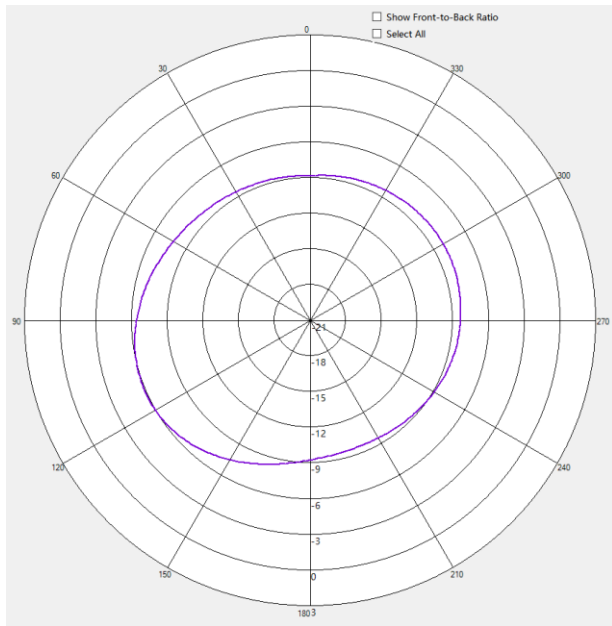
5. Radiation pattern at 5920MHz



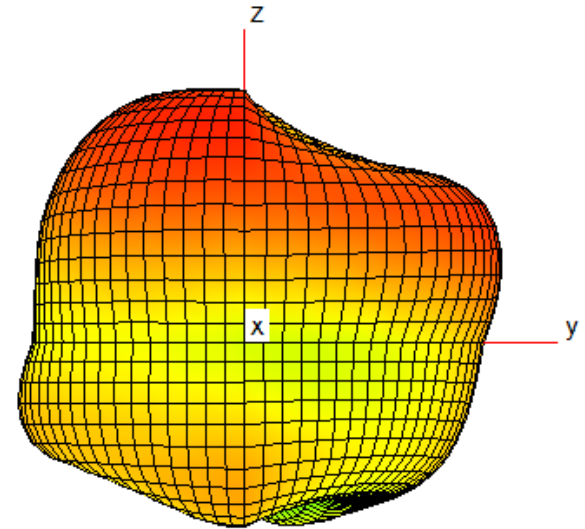
Horizontal and vertical 3D



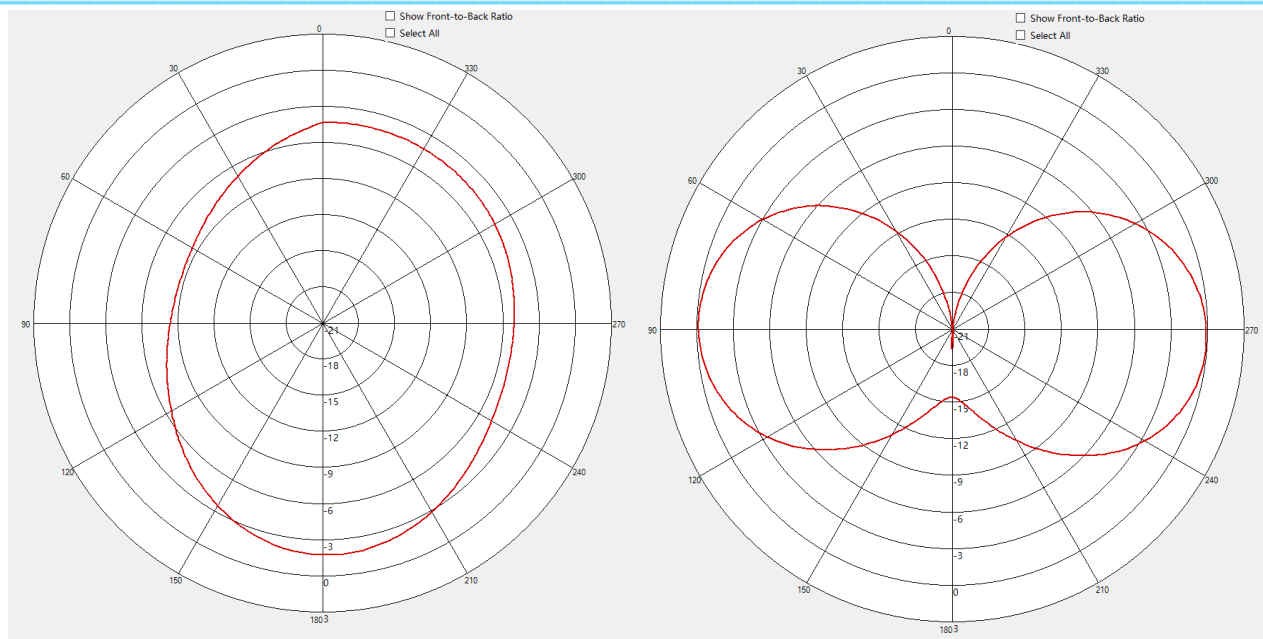
6. Radiation pattern at 6520MHz



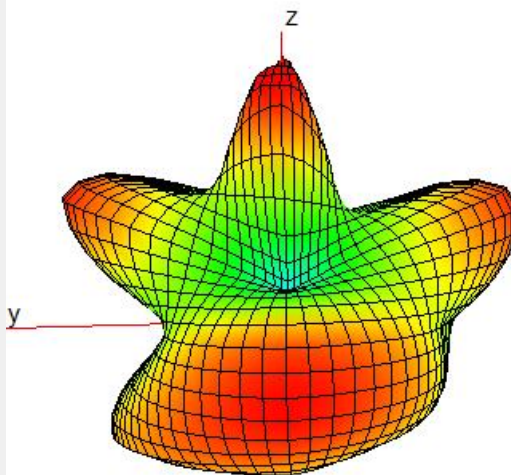
Horizontal and vertical 3D



7. 7200MHz radiation pattern



Horizontal and vertical 3D



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