

Antenna Test Report

Customer	/
Project	Y96. FD63A
Antenna Revision	A0
Prepared by	
Checked by	
Date:	2025/05/20

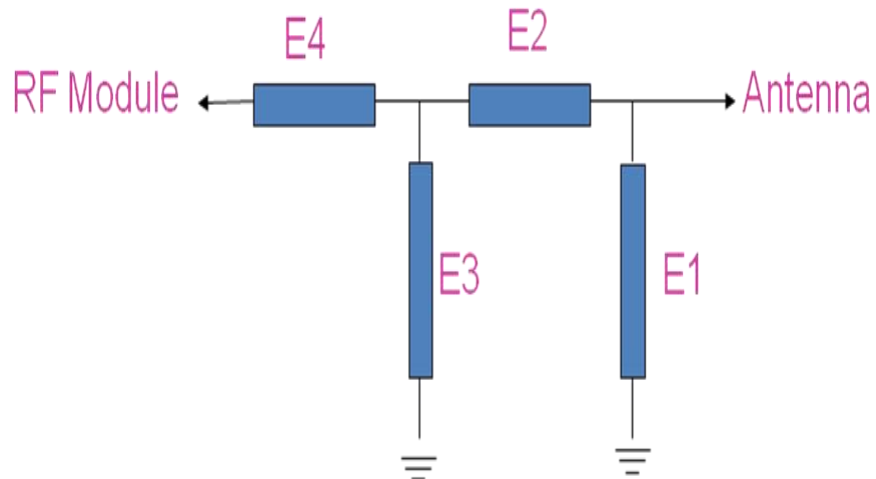
制造商manufacturer: Shenzhen Kexin Wireless Technology Co., Ltd.
地址address: 3rd Floor, Building H, Hongyongli Industrial Zone, Shabeili,
Longxin Community, Baolong Street, Longgang District, Shenzhen City,
Guangdong Province, P.R.China

Test System

Sequence Number	Test Item	equipment
S parameter	VSWR	Agilent 5071C & Agilent 5062A
OTA Test	TRP&TIS	Agilent 8960 E5515C& Agilent 4438C&CMW500 &CMW270 ETS&SATIMO
Gain & Efficiency	Gain & Efficiency	ETS&SATIMO Agilent 5071C

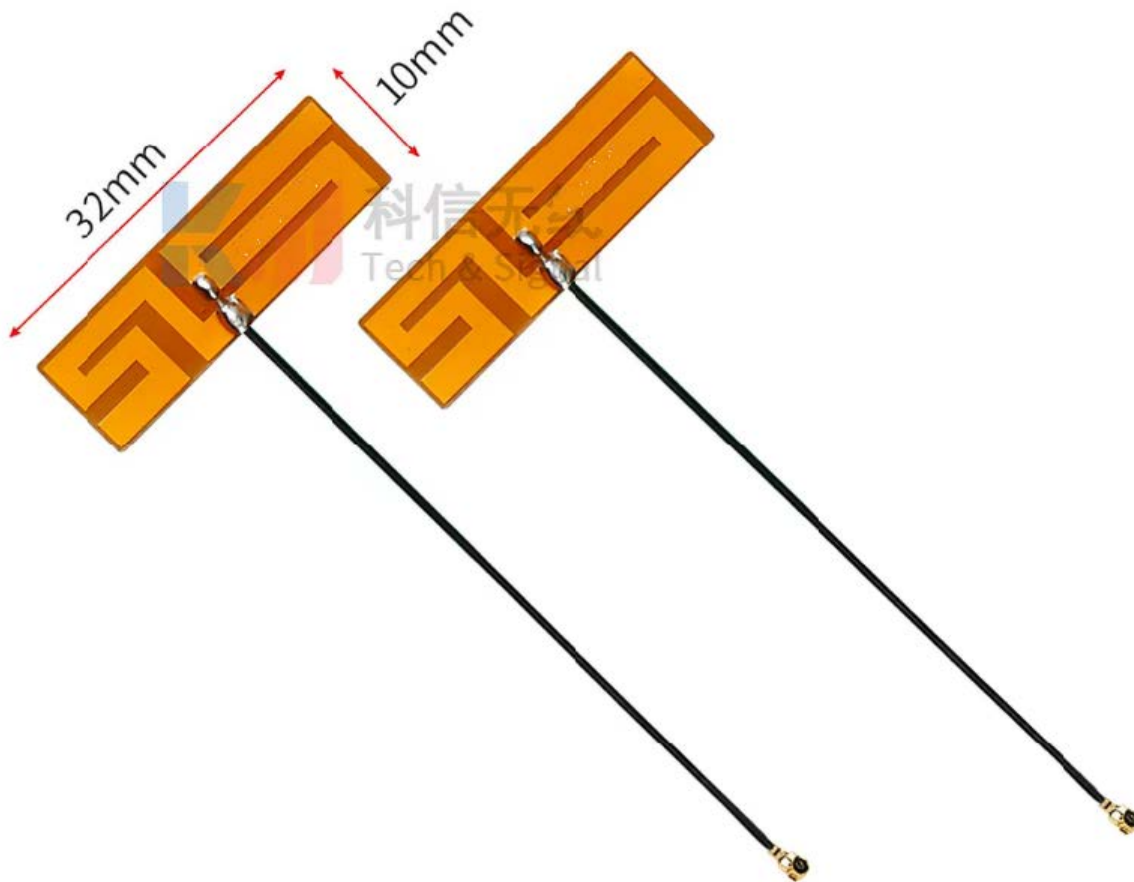


Antenna Matching Network



Element	Value
E1	N/A
E2	N/A
E3	N/A
E4	N/A

Antenna size



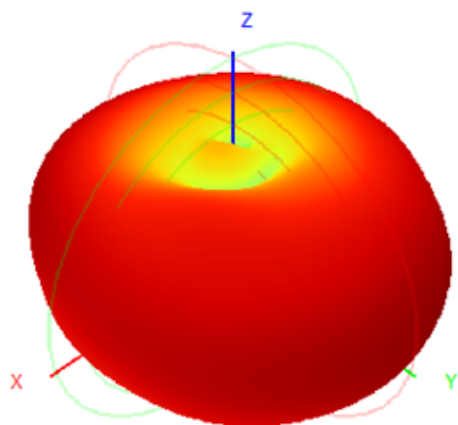
Test Result

Gain & Efficiency

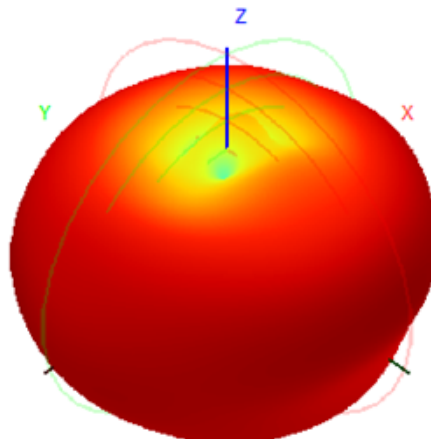
Frequency ID	1	2	3	4	5	6	7	8	9	10	11
Frequency (MHz)	2400.0	2410.0	2420.0	2430.0	2440.0	2450.0	2460.0	2470.0	2480.0	2490.0	2500.0
Efficiency (dBi)	-4.39	-4.28	-4.24	-4.22	-4.18	-4.04	-3.90	-3.70	-3.36	-2.98	-2.60
Gain (dBi)	-0.25	-0.12	-0.17	-0.39	-0.45	-0.22	0.04	0.24	0.51	0.75	1.05
Efficiency (%)	36.43	37.34	37.71	37.86	38.22	39.47	40.74	42.67	46.12	50.30	54.92
Directivity (dB)	4.13	4.16	4.07	3.83	3.73	3.82	3.94	3.94	3.87	3.74	3.66
Peak Gain Position (Theta)	86.00	86.00	86.00	86.00	70.00	69.00	68.00	68.00	68.00	69.00	71.00
Peak Gain Position (Phi)	128.00	128.00	126.00	123.00	250.00	250.00	247.00	246.00	246.00	245.00	243.00
Efficiency ThetaPol (%)	33.78	34.78	35.28	35.55	36.03	37.37	38.79	40.87	44.41	48.67	53.32
Efficiency PhiPol (%)	2.66	2.56	2.43	2.31	2.19	2.09	1.94	1.80	1.71	1.63	1.60
Upper Hem. Efficiency (%)	23.32	23.83	23.95	24.18	24.41	25.19	25.88	26.76	28.49	30.66	33.02
Lower Hem. Efficiency (%)	13.11	13.51	13.76	13.68	13.82	14.28	14.86	15.92	17.63	19.64	21.90

Test Result

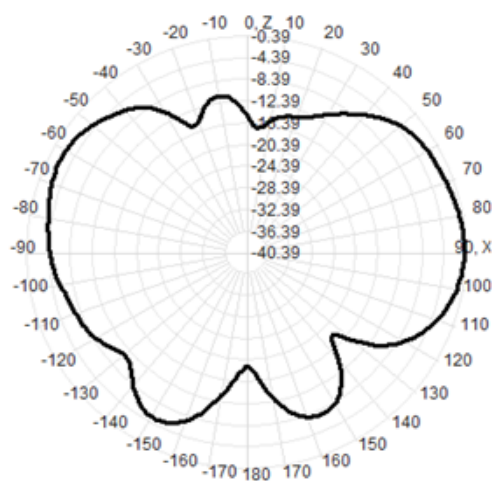
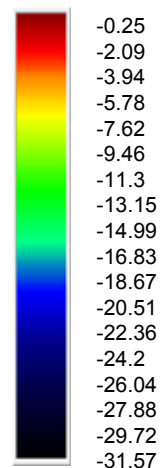
3D Pattern



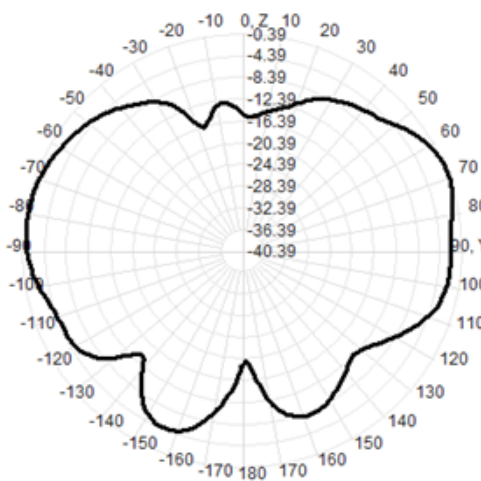
2400.0MHz H+V, Eff: 36.4%



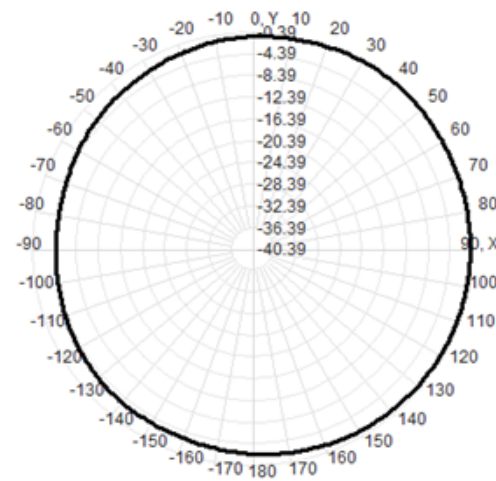
Back View



2400.0MHz Total(E1-XZ)



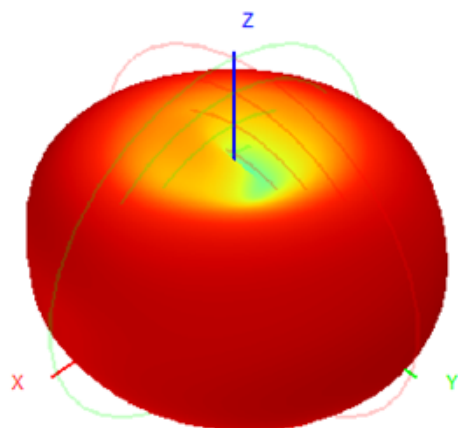
2400.0MHz Total(E2-YZ)



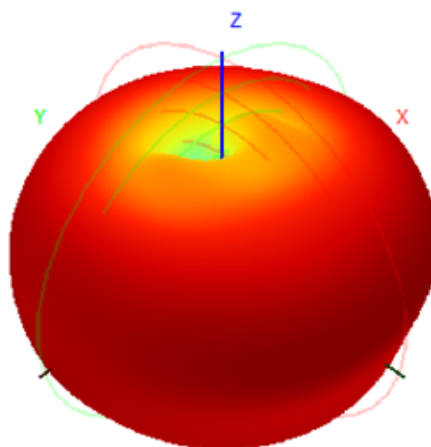
2400.0MHz Total(H-XY)

Test Result

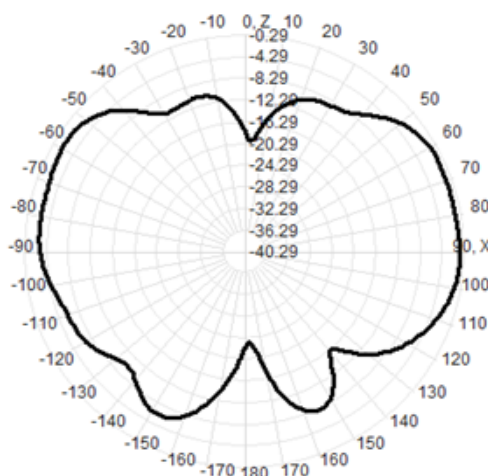
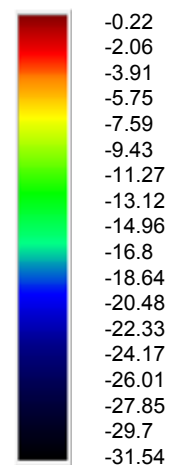
3D Pattern



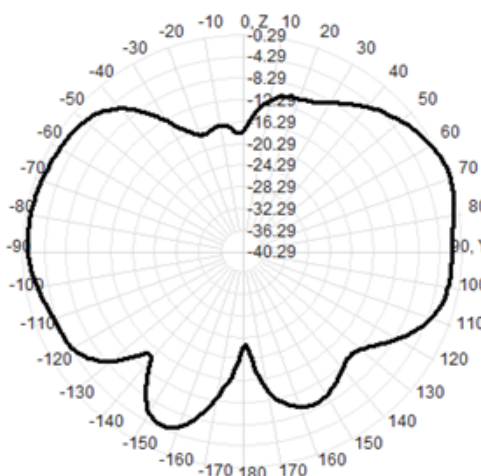
2450.0MHz H+V, Eff: 39.5%



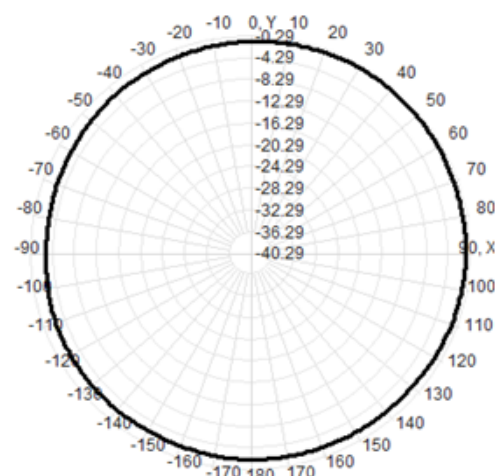
Back View



2450.0MHz Total(E1-XZ)



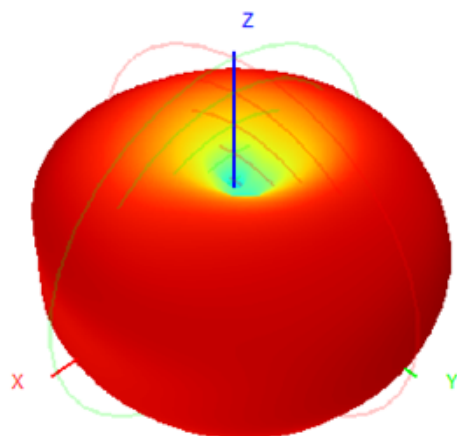
2450.0MHz Total(E2-YZ)



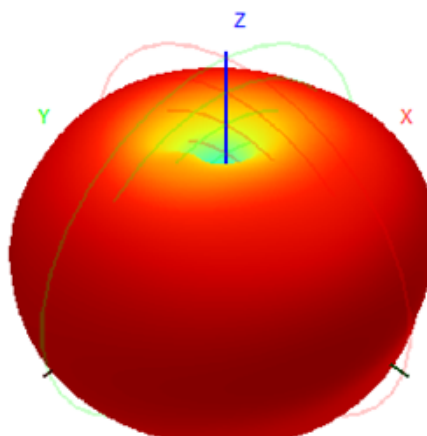
2450.0MHz Total(H-XY)

Test Result

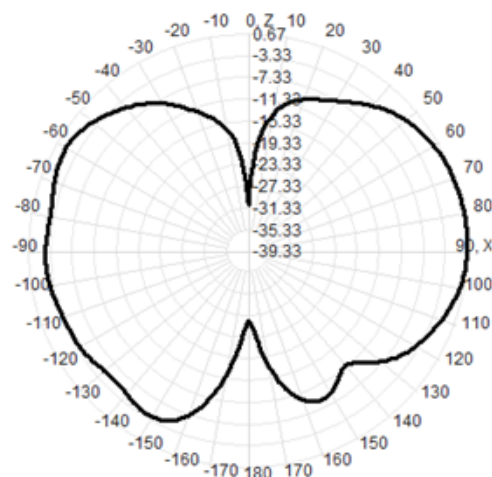
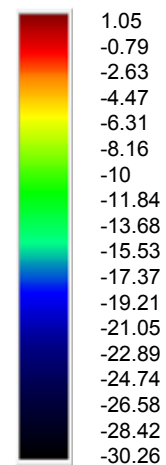
3D Pattern



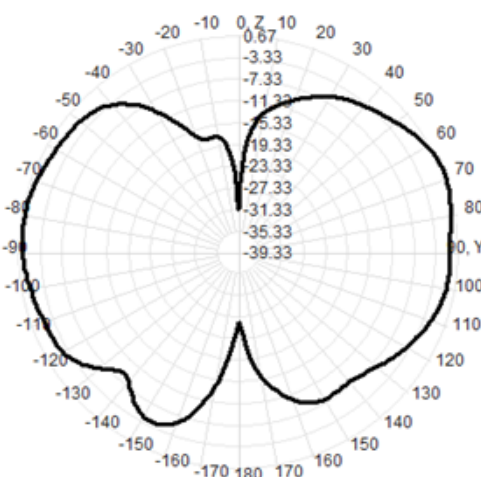
2500.0MHz H+V, Eff: 54.9%



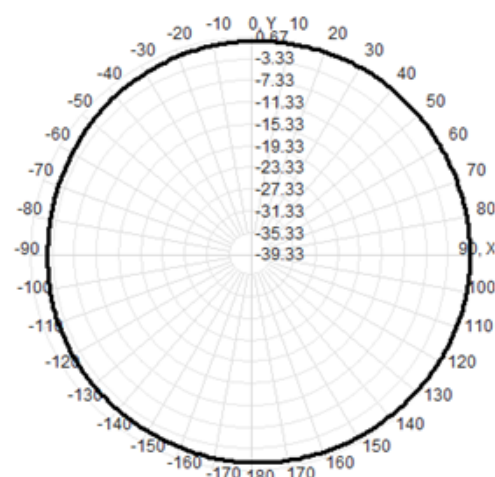
Back View



2500.0MHz Total(E1-XZ)



2500.0MHz Total(E2-YZ)



2500.0MHz Total(H-XY)