

Shenzhen Furui Communication Technology Co., Ltd.

Room 201-08, Building 4, Huanxing Company, No. 4034 Banxuegang Avenue,
Xiangjiaotang Community, Bantian Subdistrict, Longgang District, Shenzhen

Specification Document

Customer Name: Shenzhen Zhixin Future Technology Co., Ltd.

Specification Description: 2.4G elbow black small pepper
antenna / L = 50MM / elbow (Reverse-SMA)

Manufacturing Date: 2023.08.30

1: Product Image



2: Electrical Performance Report: **VSWR**



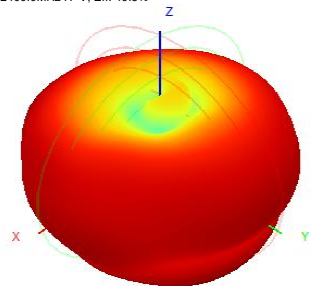
3: Product Performance Parameters

深圳市福瑞通讯科技有限公司

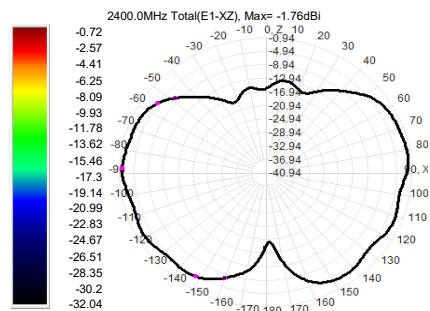
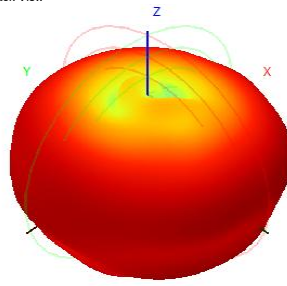
Frequency ID	1	2	3	4	5	6	7	8	9	10	11
Frequency (MHz)	2400.0	2410.0	2420.0	2430.0	2440.0	2450.0	2460.0	2470.0	2480.0	2490.0	2500.0
Efficiency (dBi)	-3.89	-4.00	-4.04	-4.15	-4.24	-4.22	-4.27	-4.29	-4.22	-4.09	-3.87
Gain (dBi)	-0.72	-1.03	-1.34	-1.53	-1.68	-1.57	-1.41	-1.24	-1.19	-0.81	-0.35
Efficiency (%)	40.84	39.83	39.42	38.48	37.68	37.84	37.43	37.21	37.81	38.99	41.00
Directivity (dB)	3.17	2.97	2.70	2.62	2.55	2.65	2.86	3.06	3.04	3.28	3.52
Peak Gain Position (Theta)	113.00	113.00	78.00	79.00	77.00	72.00	70.00	70.00	69.00	84.00	85.00
Peak Gain Position (Phi)	68.00	68.00	296.00	298.00	303.00	251.00	252.00	252.00	255.00	29.00	30.00
Efficiency ThetaPol (%)	40.03	39.08	38.69	37.76	36.96	37.11	36.71	36.50	37.10	38.26	40.21
Efficiency PhiPol (%)	0.81	0.76	0.73	0.72	0.72	0.73	0.72	0.71	0.71	0.73	0.79
Upper Hem. Efficiency (%)	18.75	18.09	18.11	18.23	18.76	19.95	20.74	21.38	21.99	22.49	23.11
Lower Hem. Efficiency (%)	22.10	21.74	21.30	20.25	18.92	17.89	16.69	15.83	15.82	16.50	17.88

[illegible]

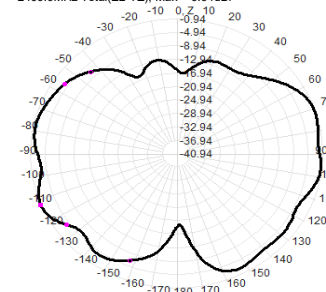
2400.0MHz H+V, Eff: 40.8%



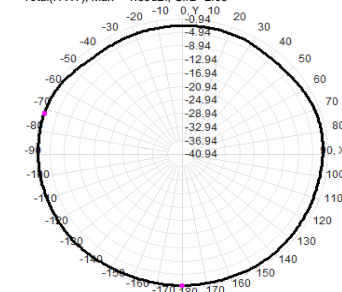
Back View



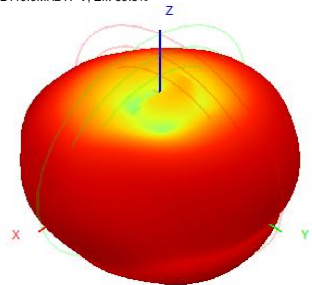
2400.0MHz Total(E2-YZ), Max=-0.94dBi



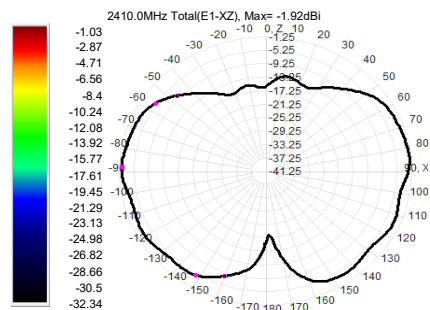
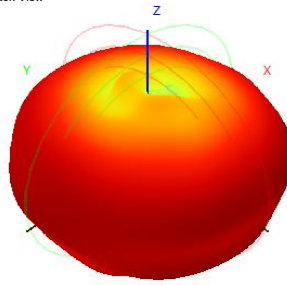
Total(H-XY), Max=-1.59dBi, CirD=2.03



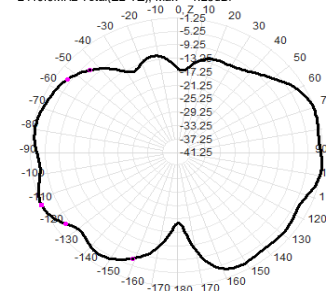
2410.0MHz H+V, Eff: 39.8%



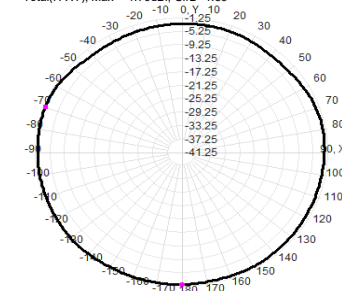
Back View



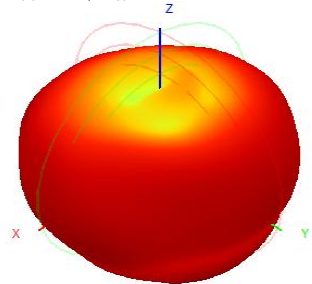
2410.0MHz Total(E2-YZ), Max=-1.25dBi



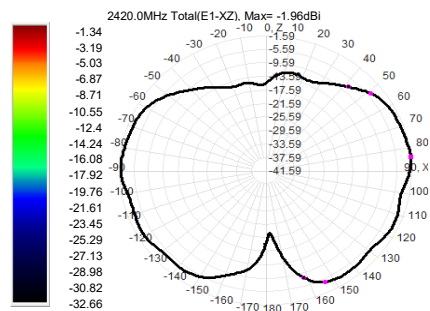
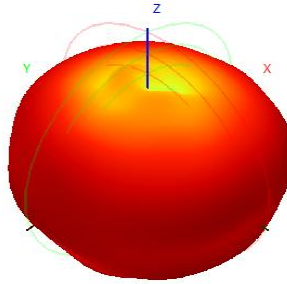
Total(H-XY), Max=-1.70dBi, CirD=1.89



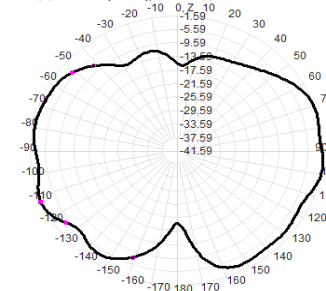
2420.0MHz H+V, Eff: 39.4%



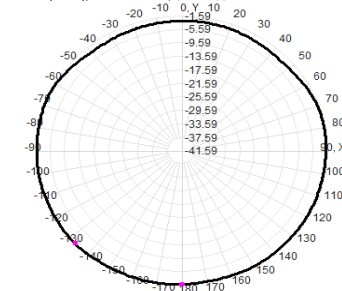
Back View



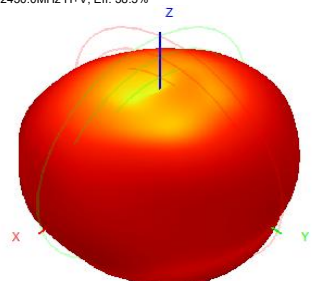
2420.0MHz Total(E2-YZ), Max=-1.59dBi



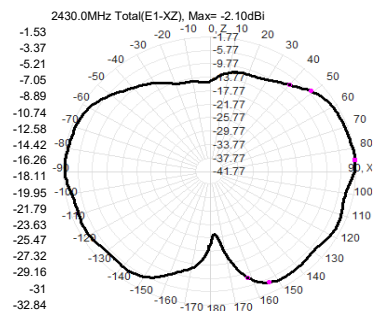
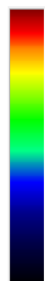
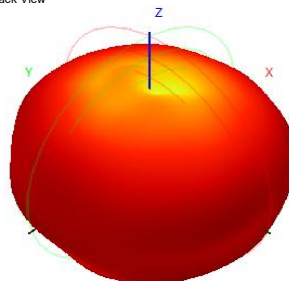
Total(H-XY), Max=-1.72dBi, CirD=1.95



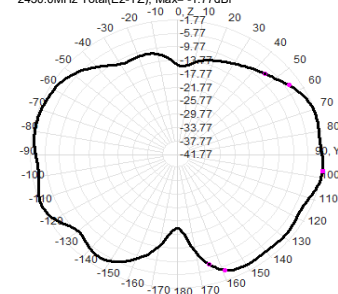
2430.0MHz H+V, Eff: 38.5%



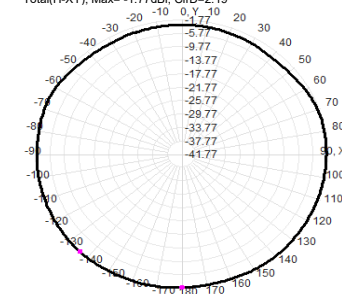
Back View



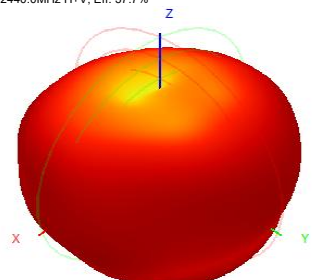
2430.0MHz Total(E2-YZ), Max=-1.77dBi



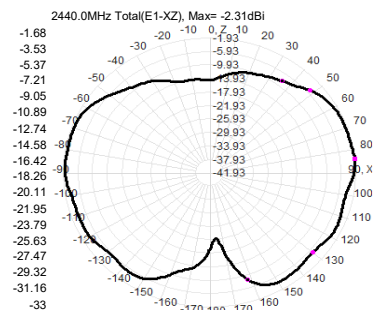
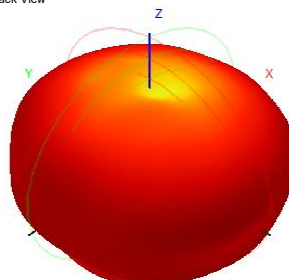
Total(H-XY), Max=-1.77dBi, CirD=2.19



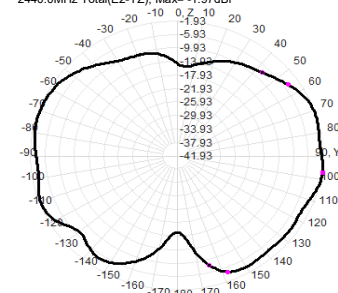
2440.0MHz H+V, Eff: 37.7%



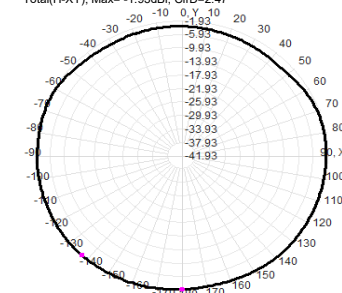
Back View



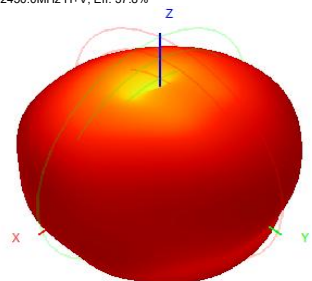
2440.0MHz Total(E2-YZ), Max=-1.97dBi



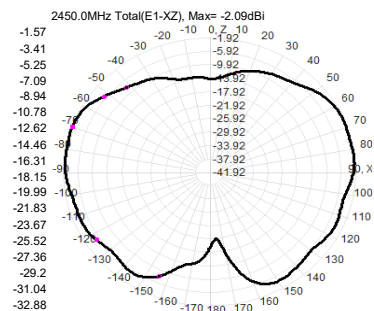
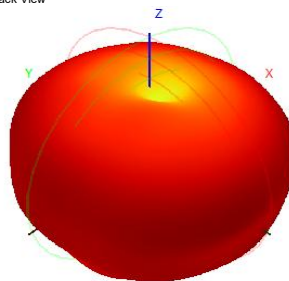
Total(H-XY), Max=-1.93dBi, CirD=2.47



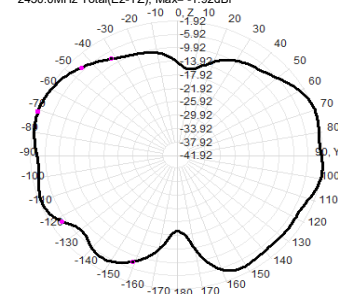
2450.0MHz H+V, Eff: 37.8%



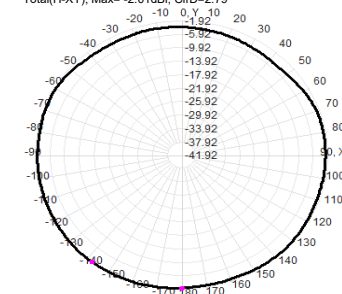
Back View



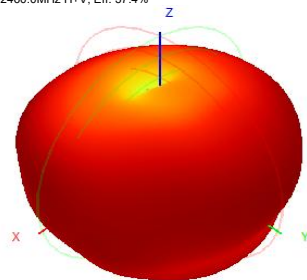
2450.0MHz Total(E2-YZ), Max=-1.92dBi



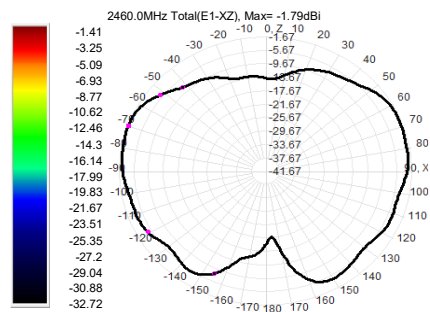
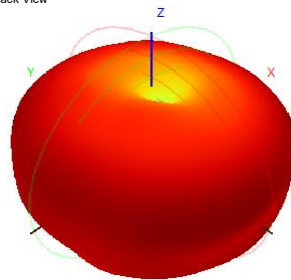
Total(H-XY), Max=-2.01dBi, CirD=2.79



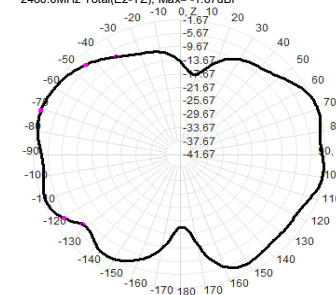
2460.0MHz H+V, Eff: 37.4%



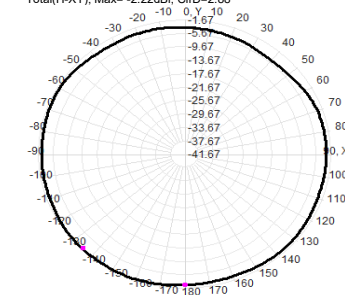
Back View



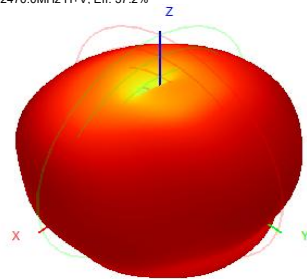
2460.0MHz Total(E2-YZ), Max=-1.67dBi



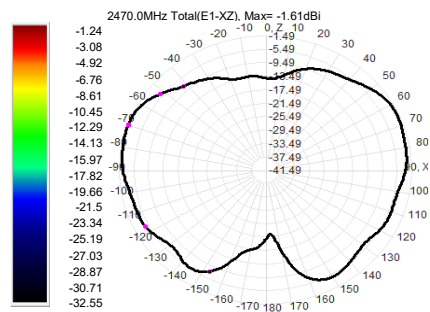
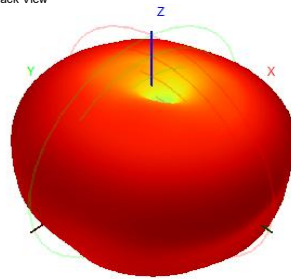
Total(H-XY), Max=-2.22dBi, CirD=2.88



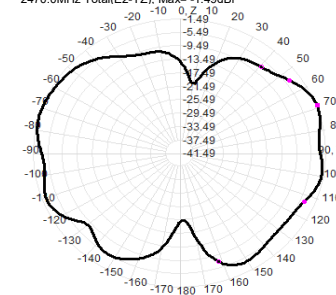
2470.0MHz H+V, Eff: 37.2%



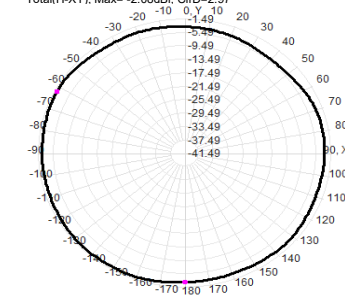
Back View



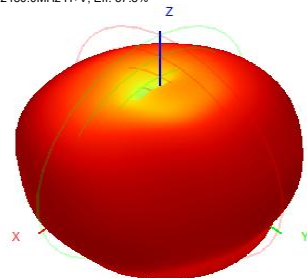
2470.0MHz Total(E2-YZ), Max=-1.49dBi



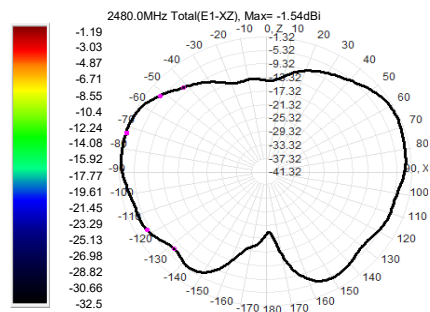
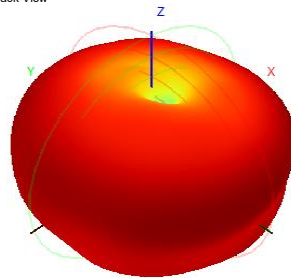
Total(H-XY), Max=-2.08dBi, CirD=2.97



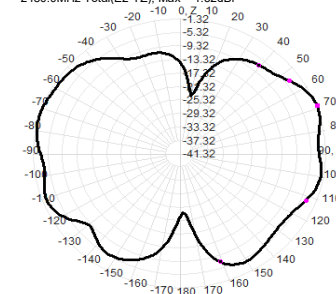
2480.0MHz H+V, Eff: 37.8%



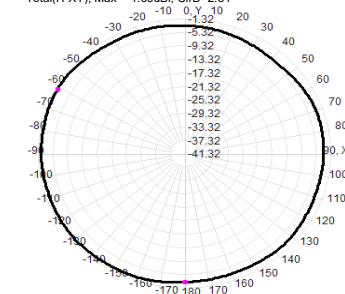
Back View



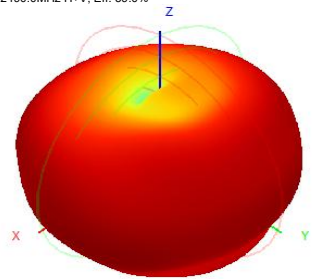
2480.0MHz Total(E2-YZ), Max=-1.32dBi



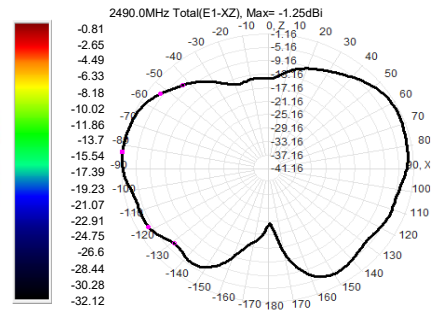
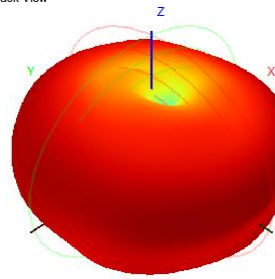
Total(H-XY), Max=-1.69dBi, CirD=2.84



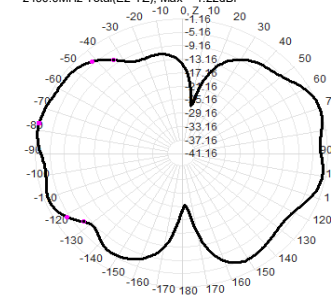
2490.0MHz H+V, Eff: 39.0%



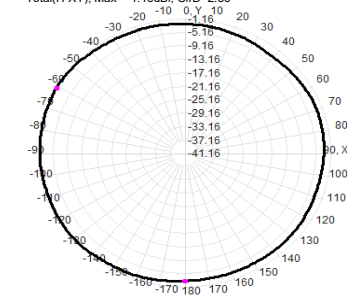
Back View



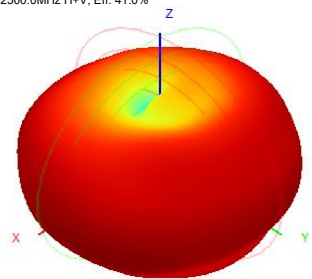
2490.0MHz Total(E2-YZ), Max=-1.22dBi



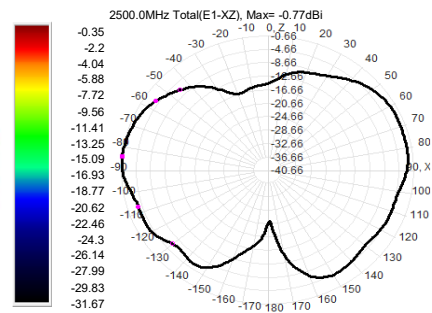
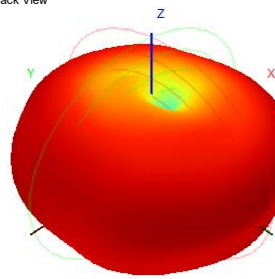
Total(H-XY), Max=-1.16dBi, CirD=2.56



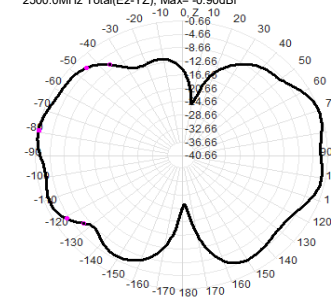
2500.0MHz H+V, Eff: 41.0%



Back View



2500.0MHz Total(E2-YZ), Max=-0.90dBi



Total(H-XY), Max=-0.66dBi, CirD=2.50

