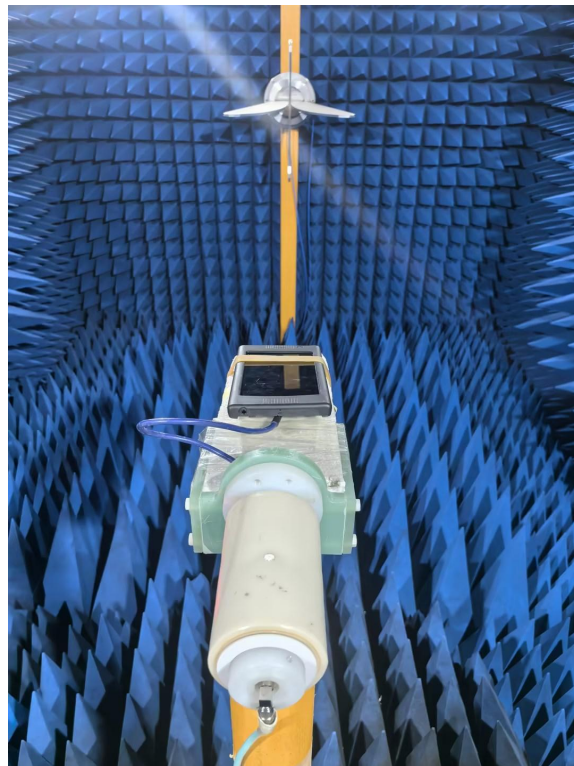


2.4G-2.48G&5G-5.8G ANTENNA REPORT

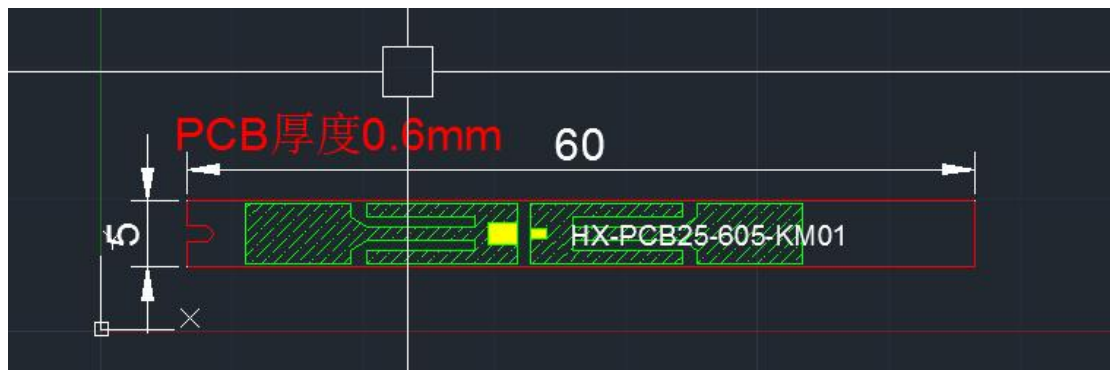
SPECIFICATIONS	
Frequency (MHz)	2400-2480&5000-5800
Peak Gain (dBi)	-1.98 &1.62
Average Gain (dBi)	>-1.52
VSWR	<3.0 & <6.0
Impedance (Ω)	50
Antenna Type	PCB Dipole antenna
Polarization	Linear
Manufacture	Shenzhen Hongxin Technology Electronics Co., Ltd



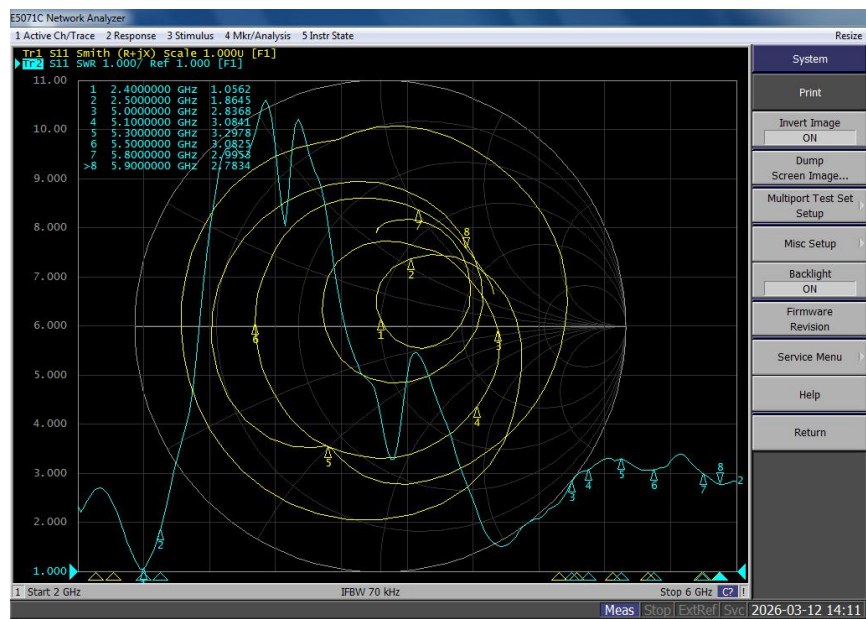
ANTENNA PHOTOSHOW :



ANTENNA SIZE :



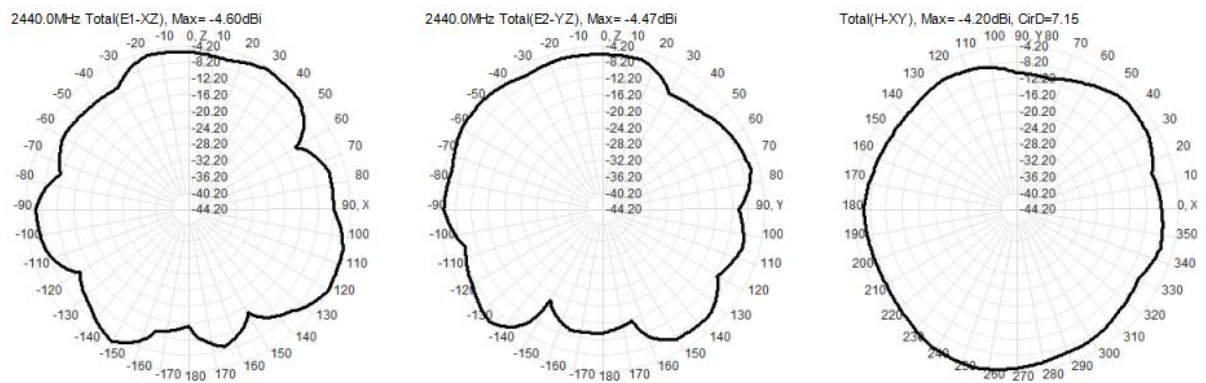
ANTENNA ELECTRIC PARAMETER:



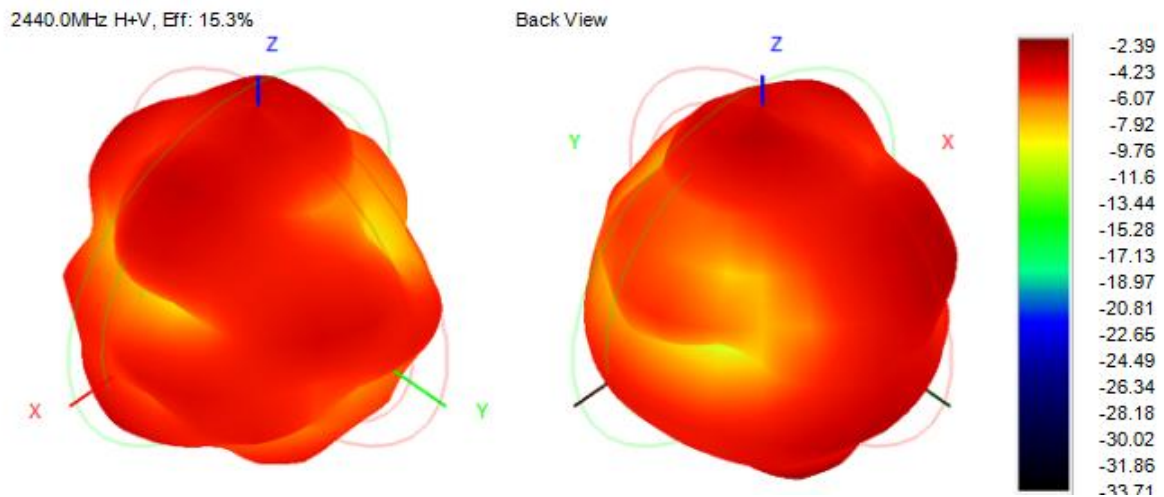
Antenna efficiency and gain:

Frequency ID	1	2	3	4	5	6	7	8	9
Frequency (MHz)	2400	2410	2420	2430	2440	2450	2460	2470	2480
Efficiency (dBi)	-8.28	-8.35	-8.23	-8.02	-8.14	-8.17	-8.00	-7.76	-7.77
Gain (dBi)	-2.25	-2.26	-2.10	-1.98	-2.39	-2.74	-2.75	-2.61	-2.53
Efficiency (%)	14.87	14.64	15.02	15.78	15.33	15.23	15.86	16.73	16.69
Directivity (dB)	6.03	6.09	6.13	6.04	5.76	5.43	5.24	5.16	5.25
Peak Gain Position (Theta)	135.00	135.00	135.00	135.00	135.00	135.00	135.00	135.00	135.00
Peak Gain Position (Phi)	240.00	240.00	240.00	240.00	240.00	255.00	255.00	255.00	255.00
Efficiency ThetaPol (%)	8.02	7.78	7.93	8.27	8.06	8.00	8.42	8.90	8.98

2440MHz 2D-Theta Pattern



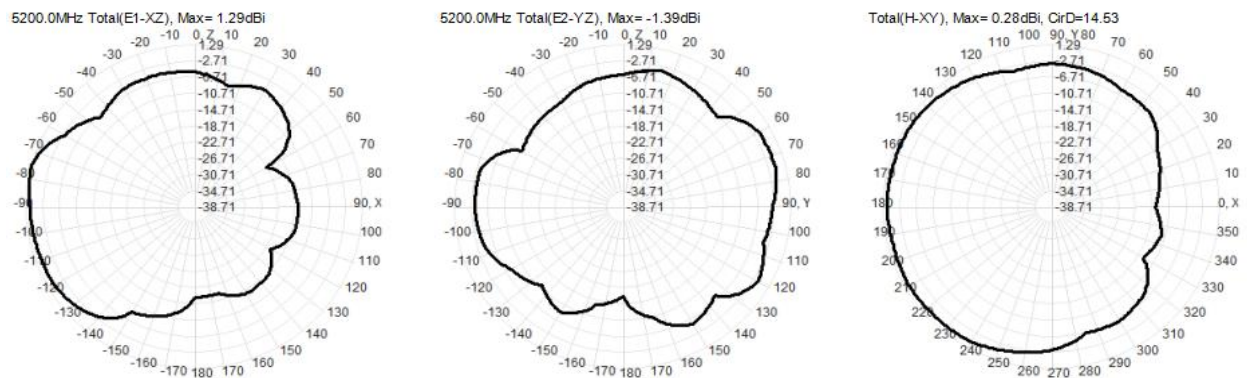
2440MHz 3D-Horizontal Pattern



Frequency ID	11	12	14	16	17	19	21	22	24	26	27	29	31	32	34	36
Frequency (MHz)	2500	5000	5040	5080	5100	5140	5180	5200	5240	5280	5300	5340	5380	5400	5440	5480
Efficiency (dBi)	-7.49	-4.34	-4.62	-4.69	-4.84	-4.71	-4.58	-4.52	-4.73	-4.79	-4.86	-4.54	-4.73	-4.73	-4.63	-4.71
Gain (dBi)	-1.95	1.21	1.00	0.92	0.67	0.95	1.41	1.56	1.36	0.99	0.79	1.47	1.31	1.35	1.17	0.97
Efficiency (%)	17.81	36.83	34.52	33.99	32.79	33.82	34.82	35.33	33.68	33.18	32.63	35.15	33.65	33.64	34.44	33.82
Directivity (dB)	5.55	5.55	5.62	5.61	5.51	5.66	5.99	6.08	6.09	5.78	5.66	6.01	6.04	6.08	5.80	5.68
Peak Gain Position (Theta)	135.00	90.00	90.00	90.00	90.00	75.00	75.00	75.00	75.00	75.00	90.00	90.00	90.00	90.00	120.00	120.00
Peak Gain Position (Phi)	255.00	150.00	165.00	150.00	165.00	150.00	150.00	150.00	150.00	150.00	180.00	180.00	180.00	180.00	180.00	165.00
Efficiency ThetaPol (%)	9.81	33.29	31.53	31.18	30.07	30.76	31.32	31.70	29.80	29.28	28.57	30.46	29.19	29.06	29.95	29.38

Frequency ID	37	39	41	42	44	46	47	49	51	52	53	54
Frequency (MHz)	5500	5540	5580	5600	5640	5680	5700	5740	5780	5800	5820	5840
Efficiency (dBi)	-4.68	-4.38	-4.55	-4.50	-4.94	-4.87	-4.79	-4.55	-4.80	-5.13	-4.85	-5.02
Gain (dBi)	0.86	1.28	1.23	1.53	1.16	1.24	1.38	1.62	1.24	1.01	1.23	1.13
Efficiency (%)	34.07	36.47	35.10	35.46	32.09	32.57	33.22	35.06	33.11	30.66	32.75	31.48
Directivity (dB)	5.54	5.66	5.78	6.03	6.10	6.11	6.17	6.17	6.04	6.15	6.08	6.15
Peak Gain Position (Theta)	120.00	75.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00
Peak Gain Position (Phi)	165.00	135.00	180.00	180.00	180.00	165.00	165.00	165.00	165.00	165.00	165.00	165.00

5200MHz 2D-Theta Pattern



5200MHz 3D-Horizontal Pattern

