



香港鑫恒陽股份有限公司
HongKong Xinghengyang Stock Co., Ltd.
深圳市鑫恒阳科技有限公司
ShenZhen XinHengYang Technology co., Ltd



品牌强国
自主品牌优选示范工程





Shenzhen Xinhengyang Technology Co., LTD

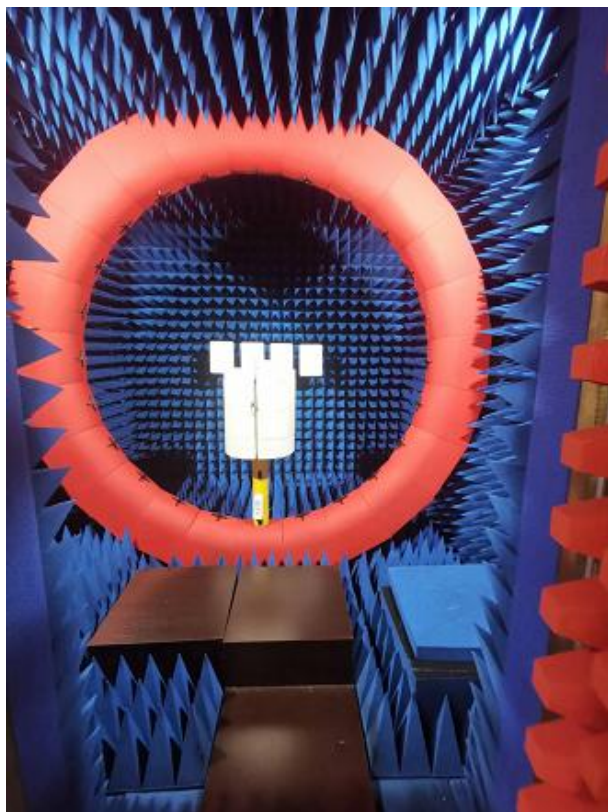
CUSTOMER NAME:	DOGNESS
PRODUCT NAME:	C9
XIN HENG YANG P/N:	FPC
WRITED:	YI XIA
DATE:	2025/04/28

Catalogue

1. Test the dark room profile
2. Machine table pictures
3. Return Loss&VSWR
4. Antenna assembly diagram
5. Passive data (Efficiency & Average gain)
6. Passive data (Field plot)
7. OTA active

1. Test the dark room profile

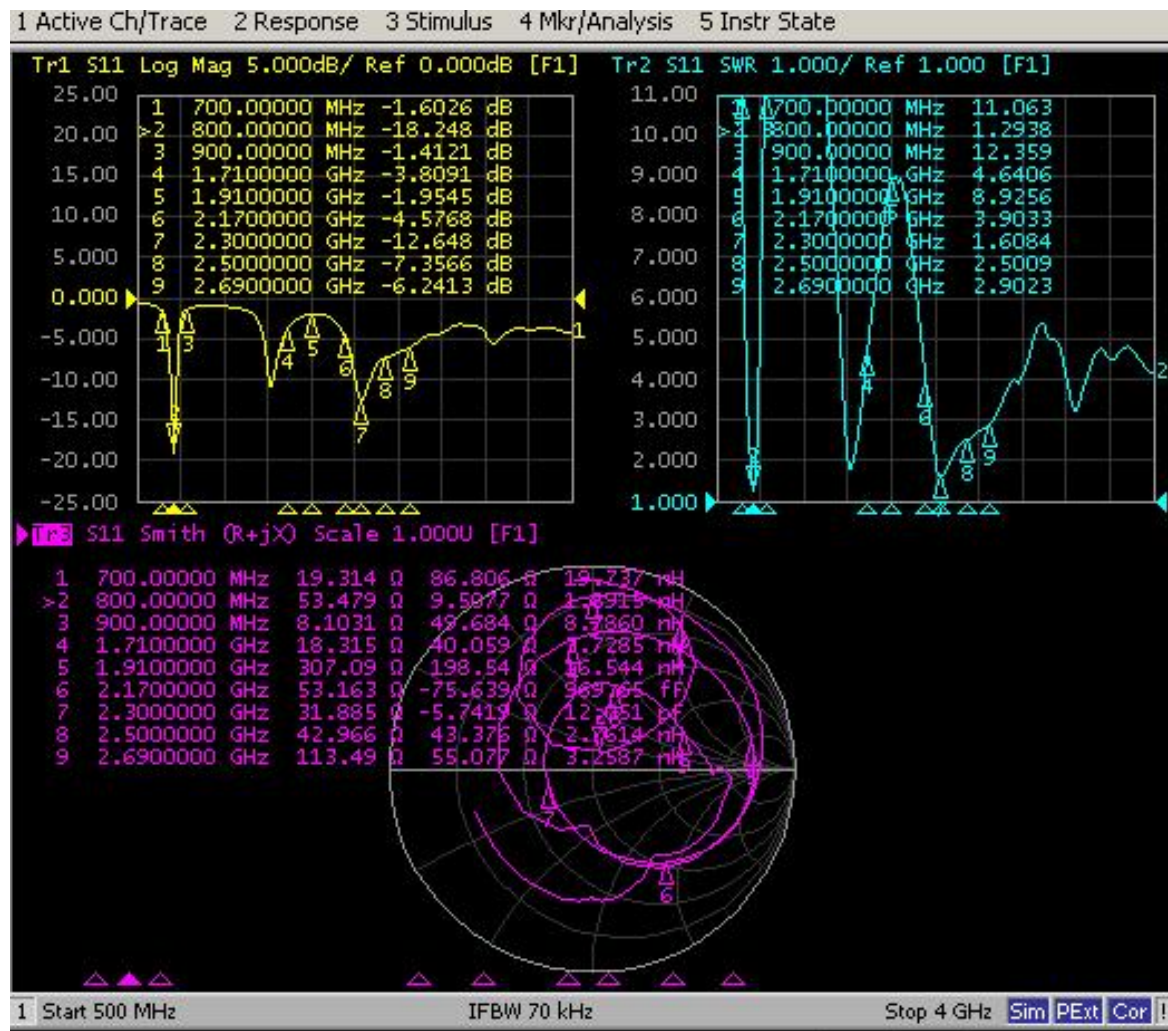
1. Active test: Support 2.3.4.5G multi-mode measurement NB-IoT, eMTC, CAT-1, Bluetooth1-5, WIFI802.11 abgn, measurable TRP TIS
2. Passive test: testable gain and efficiency
3. TWS headset test the head model full set



2. Machine table pictures

3. Return Loss&VSWR

4G

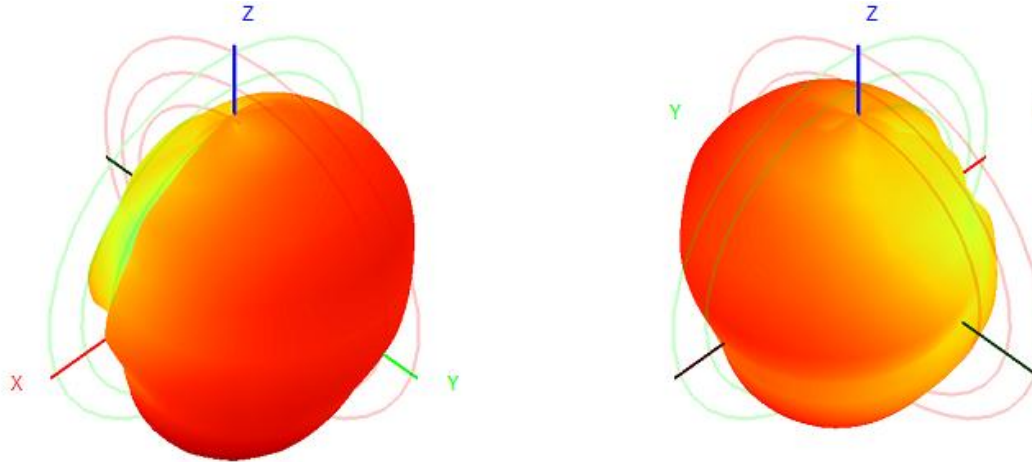


4. Antenna assembly diagram

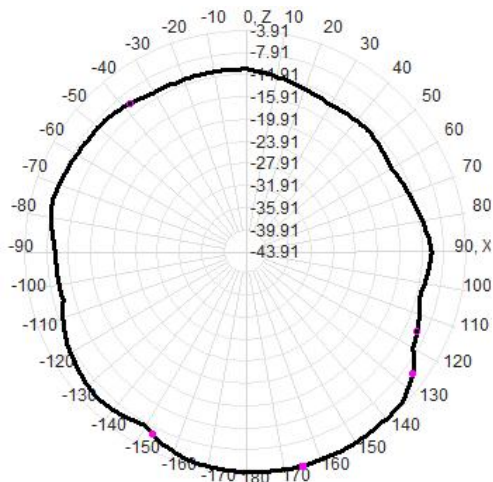


4G Antenna

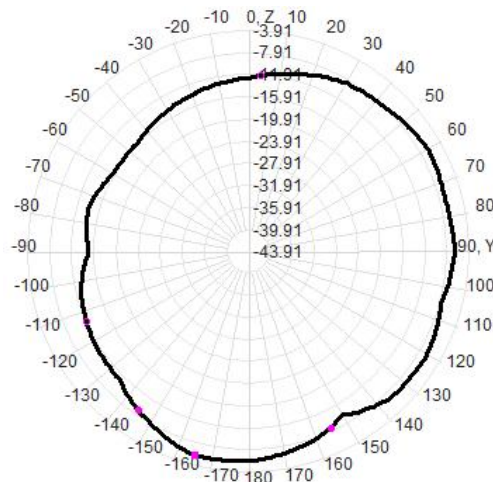
4. Passive data (700–960 MHz field pattern)



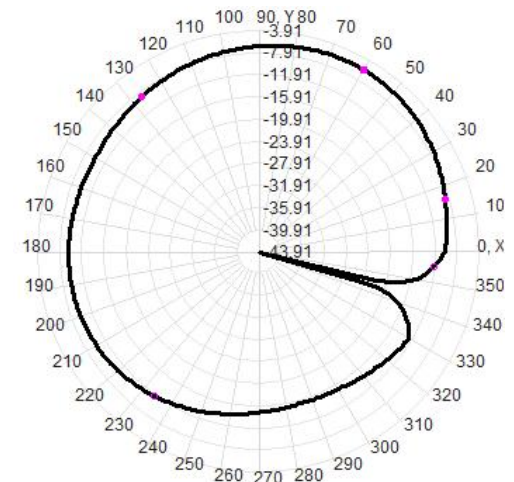
Total(E1-XZ)



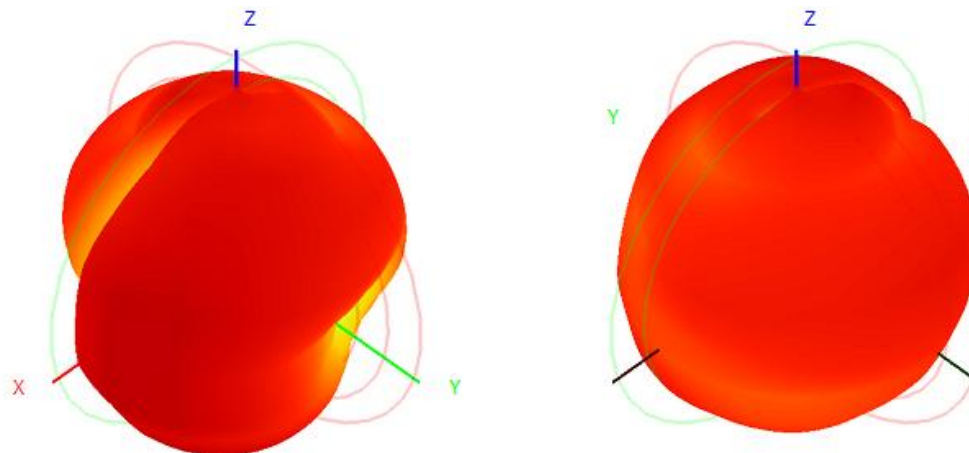
Total(E2-YZ)



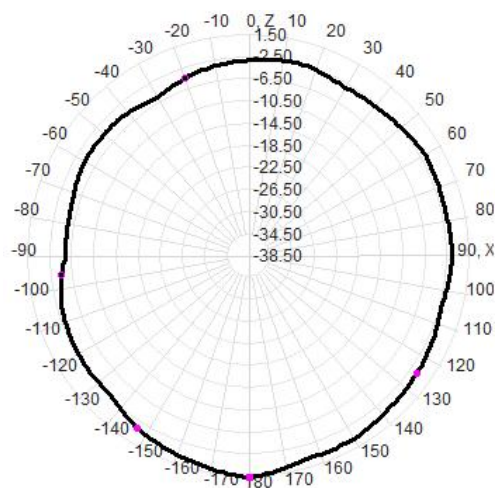
Total(H-XY)



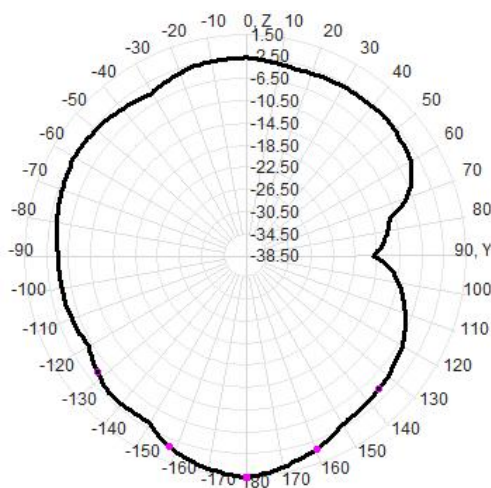
4. Passive data (1710–2690 MHz field pattern)



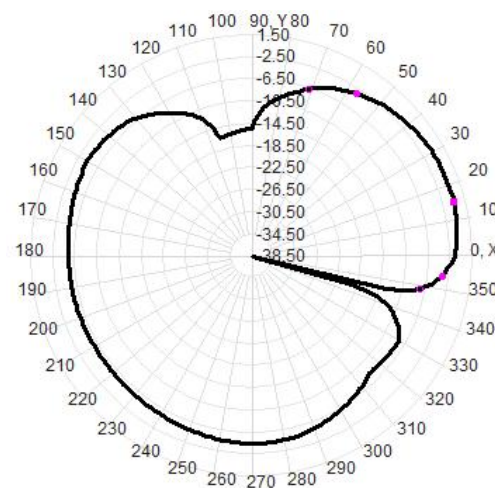
Total(E1-XZ)



Total(E2-YZ)



Total(H-XY)



5. Passive data (Efficiency & maximum gain) 700MHz-960MHz

4G (700MHZ-960MHZ)					
Frequency (MHz)	Efficiency (%)	Gain (dBi)	Frequency (MHz)	Efficiency (%)	Gain (dBi)
700	3.20	-13.20	840	4.90	-8.73
720	3.90	-10.99	860	3.40	-11.94
740	5.30	-8.96	880	2.80	-15.21
760	7.30	-6.72	900	2.50	-17.80
780	10.80	-4.03	920	2.30	-20.51
800	15.10	-2.01	940	2.20	-23.34
820	9.50	-4.63	960	2.20	-25.50

5. Passive data (Efficiency & maximum gain) 1710MHz-2690MHz

4G (1710MHZ-2690MHZ)								
Frequency (MHz)	Efficiency (%)	Gain (dBi)	Frequency (MHz)	Efficiency (%)	Gain (dBi)	Frequency (MHz)	Efficiency (%)	Gain (dBi)
1710	16.74	-4.55	2150	19.58	-1.89	2590	28.27	0.17
1750	12.97	-5.62	2190	20.73	-1.39	2630	22.98	-1.41
1790	14.00	-5.13	2230	29.37	-0.20	2670	20.14	-1.29
1830	13.47	-4.80	2270	40.18	1.93	2690	19.30	-1.34
1870	9.15	-6.55	2310	45.55	2.49			
1910	8.30	-7.34	2350	37.59	0.91			
1950	9.28	-7.04	2390	37.55	0.76			
1990	9.95	-6.10	2430	43.58	1.80			
2030	8.20	-5.68	2470	39.76	1.59			
2070	8.44	-5.28	2510	31.94	-0.10			
2110	14.85	-3.63	2550	30.27	-0.02			

6. OTA active

Test Condition		Free Space	
Band	Channel	TRP (dBm)	TIS (dBm)
B2	18650	12.45	
	18900	11.14	
	19150	11.20	-82.80
B4	20000	18.53	
	20175	18.83	
	20350	16.67	-88.31
B5	20450	13.11	
	20525	16.16	
	20600	15.89	-80.22
B12	23010	10.50	
	23095	9.16	
	23179	10.45	-75.13

6. OTA active

Test Condition		Free Space	
Band	Channel	TRP (dBm)	TIS (dBm)
B13	23180	10.73	
	23230	11.51	
	23279	11.37	-78.10
B66	66486	18.72	
	66786	16.41	
	67086	16.57	-89.27



Shenzhen Xinhengyang Technology Co., LTD

Thank You

R & D Engineer: YI.XIA Tel: 15675286292

Tel: 0755-83600916 R&D : 0755-86715202

Fax: 0755-88355591 Web: <http://XHY-2008.com>

E-mail: gc@xhy-2008.com QQ: 84223786

Address: 7 Lanshan Second Road, Xili Sub-district, Nanshan District, Shenzhen City, Aerospace Micro Motor Building First Floor, Building B