



Applicable to N92 project 4G MAIN antenna solution

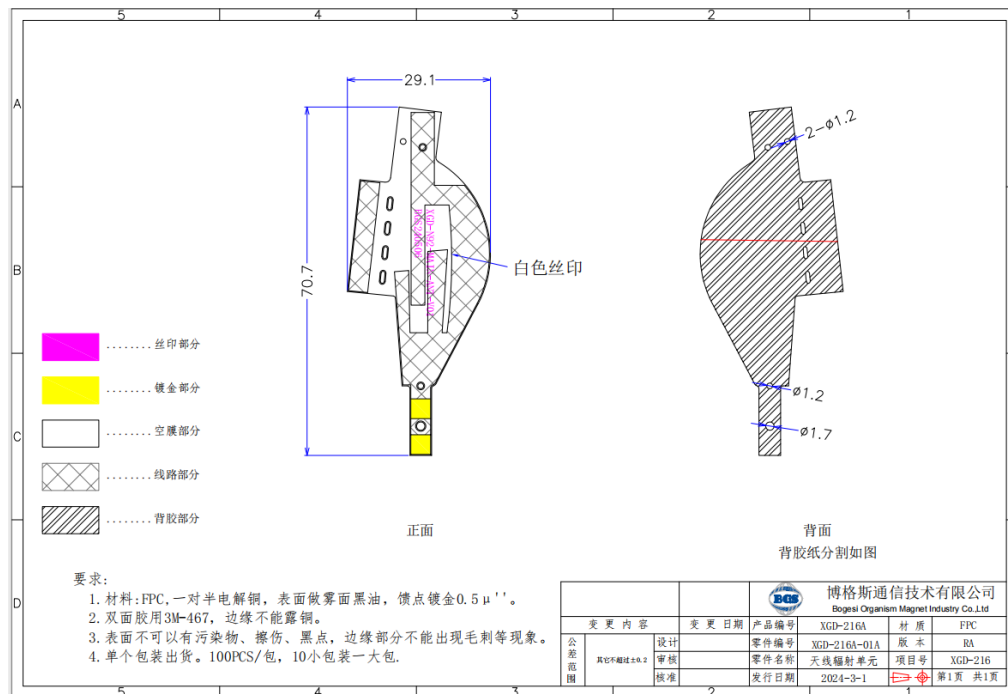
Electrical Specifications:

Frequency Band	4G	The Antenna Material	FPC
Nominal Impedance	50 Ω	Antenna Connection Mode	touch
VSWR	≤ 3.0	Working Temperature	-40℃~+85℃
Peak Gain	700~960MHz: 1.09	Keep The Temperature	+19℃~+23℃
	1700~2700MHz: 3.31	Polarization	Linear Polarization

Test Conditions And Methods:

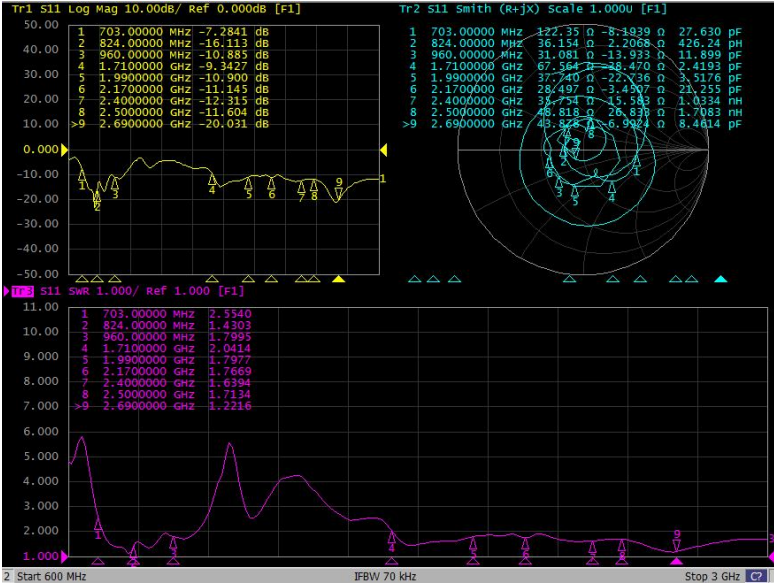
Test Instruments	Test Method	Test Result
7*4*3 microwave darkroom E5071B network analyzer	1. Assemble the antenna to be tested on the prototype. 2. Put the prototype on the test fixture in a dark room, and conduct comprehensive test with it. Instrument/analyzer connection is established. 3. Test antenna passive data with test software.	Refer to the Test Report

Antenna Drawing:



Passive performance test parameters

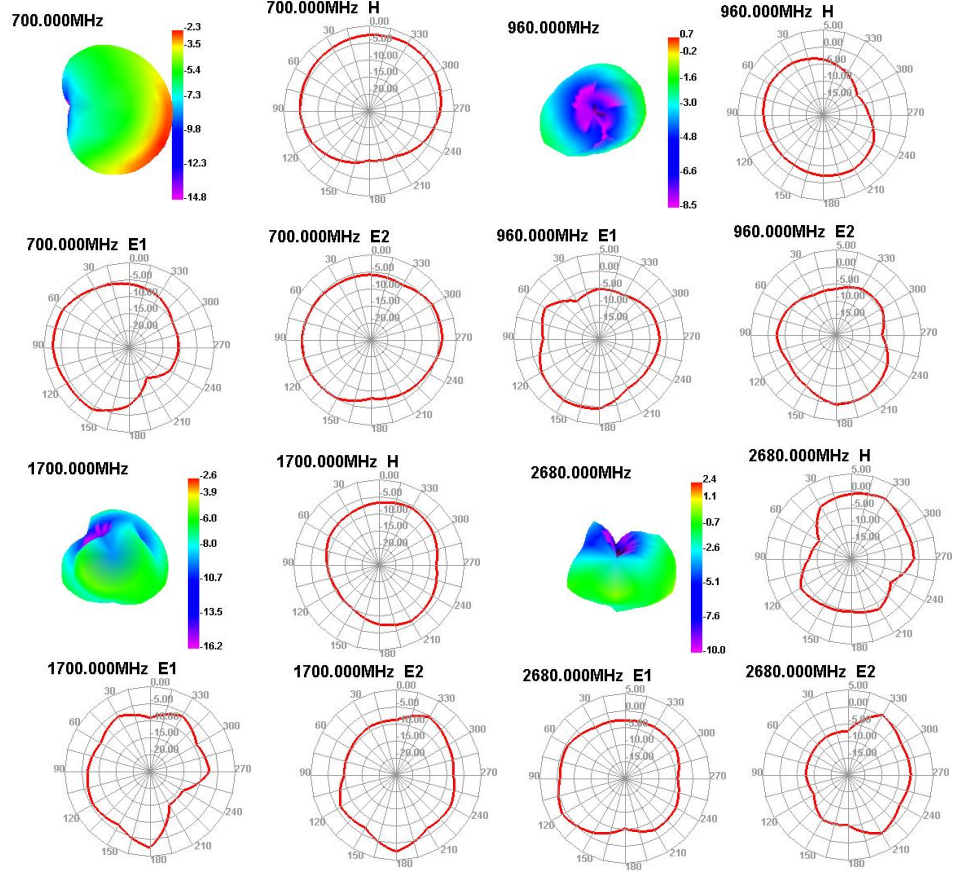
Frequency (MHz)	703	824	960
VSWR	2.55	1.43	1.79
Frequency (MHz)	1710	2400	2690
VSWR	2.04	1.63	1.22



antenna passive data:

Freq (MHz)	Effi (%)	Gain (dBi)	Freq (MHz)	Effi (%)	Gain (dBi)
700	35.24	-2.27	1940	43.01	0.99
710	38.81	-1.06	1960	44.34	0.86
720	42.65	-0.35	1980	47.89	1.47
730	42.31	0.26	2000	44.65	1.61
740	44.67	0.45	2020	45.23	1.78
750	43.89	0.24	2040	47.96	1.89
760	43.08	-0.03	2060	47.16	1.6
770	43.26	-0.13	2080	46.56	1.56
780	39.39	-0.65	2100	46.69	1.68
790	38.84	-0.98	2120	44.9	1.79
800	36.46	-1.34	2140	44.82	1.98
810	31.06	-2.01	2160	43.4	1.9
820	34.64	-1.67	2180	46.31	2.33
830	37.64	-1.56	2200	49.49	2.91
840	40.56	-1.39	2220	47.74	2.77
850	40.66	-1.43	2240	47.81	2.7
860	41.3	-1.17	2260	48.68	2.87
870	41.77	-0.71	2280	48.26	2.9
880	41.9	-0.03	2300	45.1	2.47
890	41.31	0.75	2320	50.78	3.18
900	41.81	1.09	2340	50.25	3.31
910	42.76	0.81	2360	51.69	3.1
920	45.58	0.8	2380	49.68	2.84
930	46.54	0.57	2400	51.94	2.75
940	48.79	0.66	2420	50.47	2.72
950	51.32	0.9	2440	47.65	2.45
960	49.89	0.74	2460	48.34	2.36
			2480	43.55	1.66
1700	43.27	1.25	2500	44.34	1.84
1720	38.12	0.23	2520	44.88	1.91
1740	39.71	0.35	2540	39.98	0.99
1760	39.52	0.84	2560	35.49	0.36
1780	36.84	-0.35	2580	36.43	0.5
1800	35.03	-0.6	2600	40.84	1.18
1820	36.2	0.11	2620	38.96	1.03
1840	37.04	0.31	2640	34.77	0.48
1860	40.81	0.72	2660	34.57	0.24
1880	42.8	1.34	2680	31.02	-0.42
1900	44.34	1.67	2700	26.3	-1.62
1920	45.41	1.56			

Directional diagram



Picture of machine

