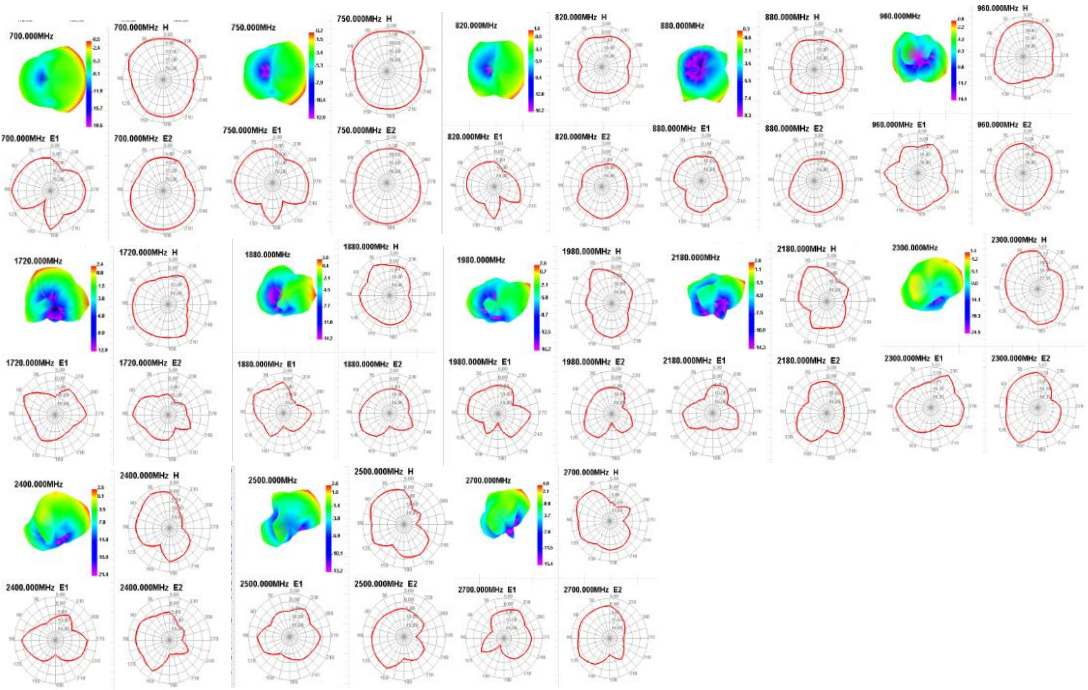


Manufacturer: Shanghai Huace Navigation Technology Ltd.

Address: 577 Songying Road, Qingpu District, 201706 Shanghai, China

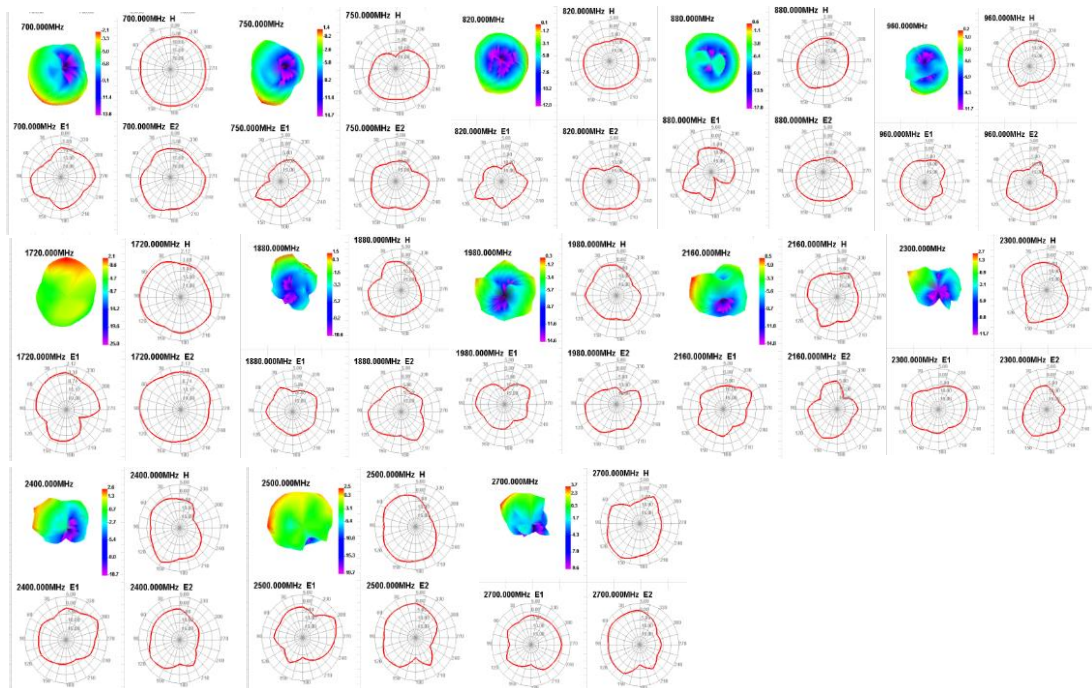
4G ANT1 :SPRING_12-MAIN-G-L CPD-029A(BGS)240820

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
700	37.93	-4.21	-0.55	1700	58.54	-2.33	3.45	2220	42	-3.77	2.52
710	40.74	-3.9	-0.48	1720	50.56	-2.96	2.38	2240	42.86	-3.68	2.35
720	44.52	-3.51	-0.21	1740	50.96	-2.93	2.3	2260	43.14	-3.65	1.79
730	45.06	-3.46	-0.22	1760	53.08	-2.75	2.93	2280	39.21	-4.07	1.38
740	45.8	-3.39	-0.1	1780	47.79	-3.21	2.88	2300	40.4	-3.94	1.43
750	44.4	-3.53	-0.25	1800	49.6	-3.05	3.11	2320	43.72	-3.59	1.56
760	43.63	-3.6	-0.44	1820	49.95	-3.01	2.97	2340	42.21	-3.75	1.69
770	44.59	-3.51	-0.48	1840	52.09	-2.83	2.67	2360	43.58	-3.61	1.5
780	48.25	-3.17	0	1860	49.04	-3.09	2.15	2380	46.15	-3.36	2.12
790	50.86	-2.94	0.32	1880	47.87	-3.2	2	2400	48.61	-3.13	2.49
800	53.23	-2.74	0.67	1900	50.73	-2.95	2.09	2420	46.98	-3.28	1.95
810	52.26	-2.82	0.8	1920	46.87	-3.29	2.43	2440	47.04	-3.28	1.67
820	52.35	-2.81	0.95	1940	44.97	-3.47	2.72	2460	49.39	-3.06	1.86
830	51.58	-2.88	0.86	1960	43.27	-3.64	2.74	2480	49.82	-3.03	2.01
840	52.94	-2.76	0.83	1980	37.57	-4.25	2.55	2500	51.32	-2.9	2.58
850	51.5	-2.88	0.73	2000	42.42	-3.72	3.59	2520	49.61	-3.04	2.83
860	47.62	-3.22	0.54	2020	44.09	-3.56	4.03	2540	51.61	-2.87	3.53
870	47.69	-3.22	0.56	2040	41.12	-3.86	4.34	2560	54.18	-2.66	3.95
880	46.29	-3.35	0.33	2060	47.19	-3.26	5.26	2580	55.59	-2.55	4.13
890	43.35	-3.63	-0.11	2080	43.63	-3.6	4.89	2600	59.51	-2.25	4.3
900	40.68	-3.91	-0.17	2100	45.73	-3.4	4.94	2620	57.72	-2.39	4
910	39.85	-4	-0.3	2120	40.09	-3.97	4.07	2640	59.67	-2.24	3.98
920	38.61	-4.13	-0.67	2140	40.12	-3.97	3.78	2660	62.31	-2.05	4.15
930	37.17	-4.3	-0.71	2160	41.25	-3.85	3.33	2680	56.71	-2.46	3.95
940	35.71	-4.47	-0.76	2180	39.5	-4.03	2.79	2700	54.42	-2.64	4.05
950	34.26	-4.65	-0.82	2200	40.86	-3.89	2.84				
960	31.63	-5	-0.89								



4G ANT2: SPRING_12-MAIN-G-R CPD-029B(BGS)240820

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
700	27.12	-5.67	-2.1	1700	56.4	-2.49	2.22	2220	38.51	-4.14	0.94
710	28.89	-5.39	-1.58	1720	52.44	-2.8	2.12	2240	40.15	-3.96	1.58
720	28.85	-5.4	-0.75	1740	46.96	-3.28	1.9	2260	43.88	-3.58	2.41
730	31.13	-5.07	0.04	1760	43.23	-3.64	1.65	2280	44.84	-3.48	2.44
740	35.11	-4.55	1	1780	47.4	-3.24	1.73	2300	47.65	-3.22	2.71
750	38.19	-4.18	1.42	1800	41.65	-3.8	1.2	2320	54.86	-2.61	2.99
760	39.91	-3.99	1.3	1820	42.28	-3.74	1.59	2340	50.55	-2.96	2.64
770	41.89	-3.78	0.86	1840	49.33	-3.07	2.19	2360	52.95	-2.76	2.77
780	41.56	-3.81	0.48	1860	43.64	-3.6	1.51	2380	58.43	-2.33	2.8
790	45.31	-3.44	0.63	1880	47.05	-3.27	1.55	2400	58.14	-2.36	2.65
800	47.26	-3.26	0.51	1900	51.19	-2.91	1.42	2420	60.81	-2.16	2.68
810	44.97	-3.47	0.16	1920	46.58	-3.32	1.01	2440	64.1	-1.93	2.66
820	41.45	-3.82	0.12	1940	46.51	-3.32	1.03	2460	64.52	-1.9	2.36
830	40.35	-3.94	0.36	1960	42.15	-3.75	0.47	2480	65.15	-1.54	2.75
840	39.71	-4.01	0.47	1980	40.68	-3.91	0.3	2500	63.26	-1.66	2.49
850	39.69	-4.01	0.57	2000	42.94	-3.67	0.78	2520	61.29	-1.79	2.4
860	38.1	-4.19	0.66	2020	43.32	-3.63	1.55	2540	63.18	-1.48	2.79
870	38.65	-4.13	0.8	2040	41.02	-3.87	1.49	2560	63.14	-1.48	2.77
880	38.12	-4.19	0.65	2060	43.48	-3.62	1.98	2580	64.02	-1.43	3.1
890	37.19	-4.3	0.73	2080	38.63	-4.13	1.2	2600	63.57	-1.64	3.53
900	35.88	-4.45	0.71	2100	39.7	-4.01	1.29	2620	62.82	-1.69	3.57
910	35.19	-4.54	0.71	2120	34.98	-4.56	1.12	2640	64.34	-1.59	3.74
920	35.48	-4.5	0.76	2140	33.48	-4.75	0.57	2660	65.94	-1.49	3.92
930	35.09	-4.55	0.66	2160	35.12	-4.54	0.52	2680	64.67	-1.63	3.75
940	37.09	-4.31	0.81	2180	33.73	-4.72	0.07	2700	64.68	-1.89	3.65
950	37.68	-4.24	0.75	2200	35.18	-4.54	0.66				
960	35.32	-4.52	0.22								



WIFI ANT: SPRING_12-WIFI CPD-029C(BGS)240726

Freq (MHz)	Effi (%)	Gain (dBi)
2400	50.96	2.65
2410	50.21	2.62
2420	49.26	2.55
2430	49.95	2.61
2440	51.03	2.72
2450	52	3.11
2460	52.41	3.06
2470	53.16	3.2
2480	53.9	3.52
2490	53.84	3.65
2500	53.87	3.61

Freq (MHz)	Effi (%)	Gain (dBi)	Freq (MHz)	Effi (%)	Gain (dBi)
5100	42.3	0.65	5520	42.26	1.19
5120	42.38	0.51	5540	43.06	1.26
5140	41.07	0.45	5560	42.14	1.2
5160	44.06	0.79	5580	37.86	0.59
5180	40.93	0.43	5600	42.13	0.88
5200	40.6	0.4	5620	40.2	0.51
5220	44.46	0.82	5640	40.89	0.49
5240	41.43	0.57	5660	43.91	0.56
5260	43.86	0.76	5680	41.55	0.44
5280	44.27	0.78	5700	40.65	0.43
5300	45.93	0.96	5720	44.12	0.61
5320	45.23	1.1	5740	41.35	0.13
5340	45.43	1.37	5760	44.59	0.34
5360	43.42	1.24	5780	48.19	0.65
5380	45.07	1.48	5800	42.35	0.31
5400	46.13	1.56	5820	44.87	0.65
5420	45.2	1.44	5840	46.98	1.07
5440	47.33	1.58	5860	38.49	0.39
5460	47.61	1.59	5880	41.16	0.62
5480	47.04	1.53	5900	36.71	0.07
5500	47.68	1.71			

