

# 1、 MAIN ANTENNA

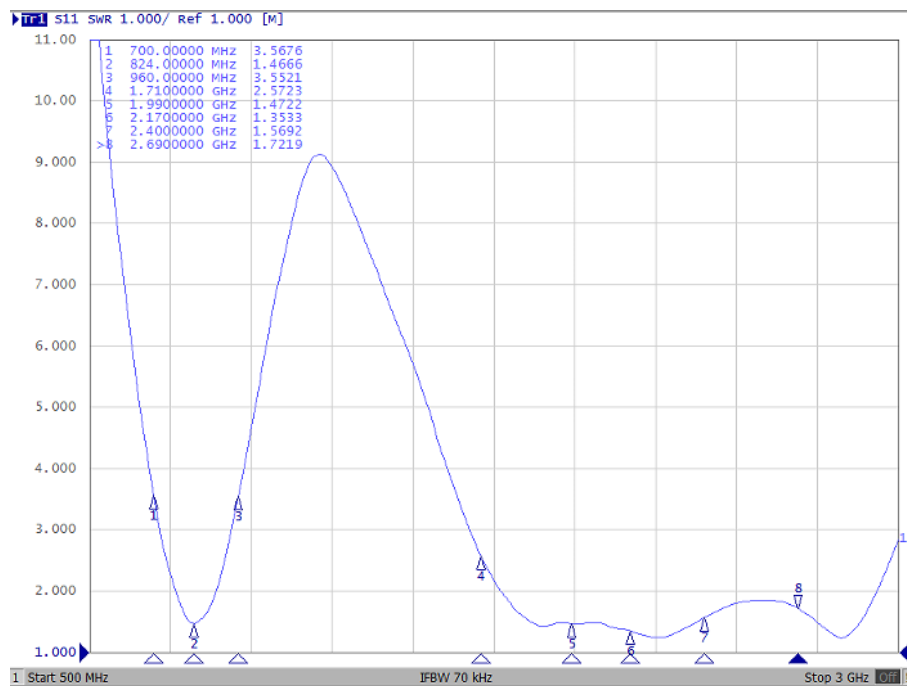
- Technical Parameters

Frequency Range: 700MHz~2690MHz

VSWR:  $\leq 3.5: 1$

GAIN:  $\geq -3.7\text{dBi}$

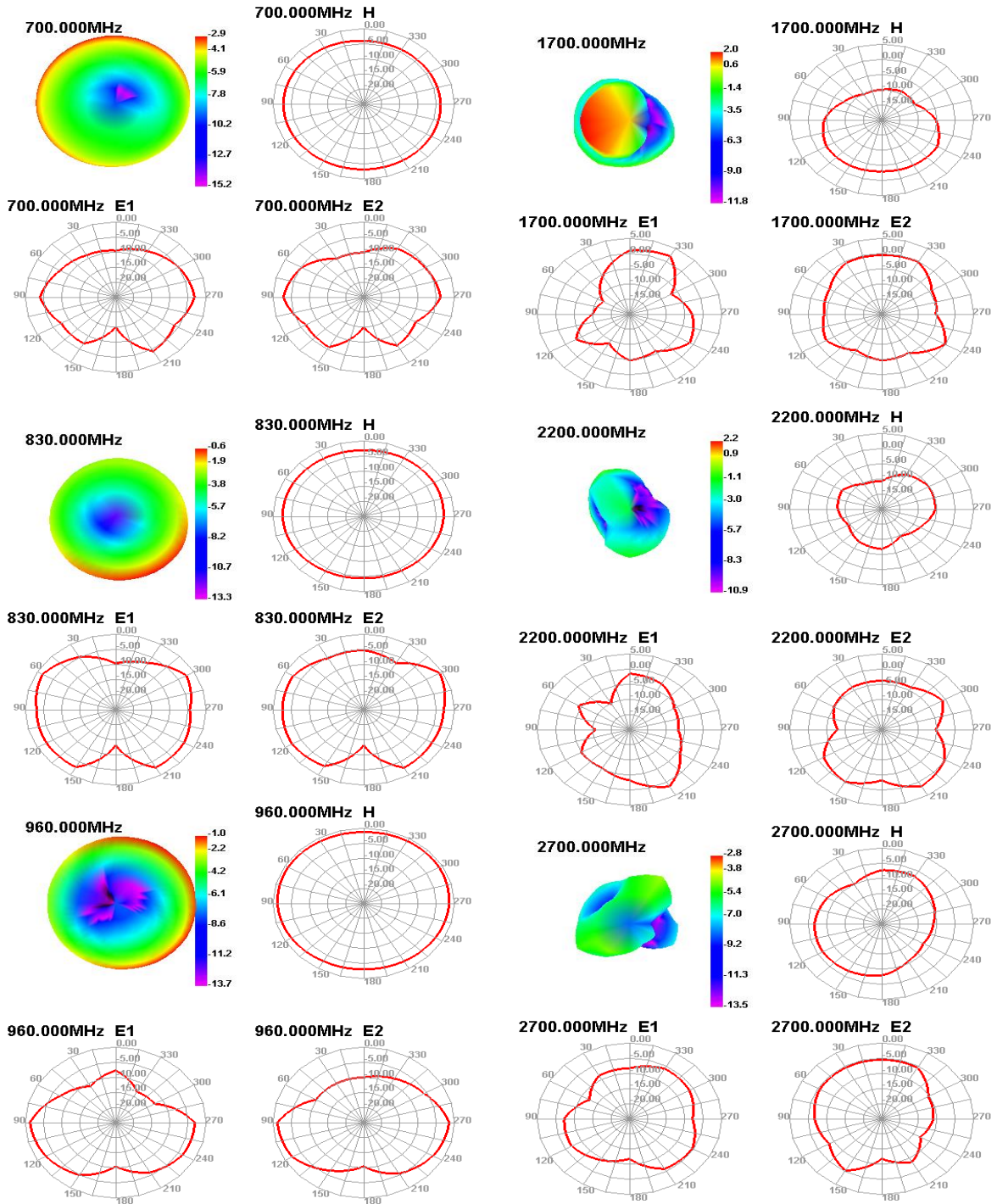
- S11



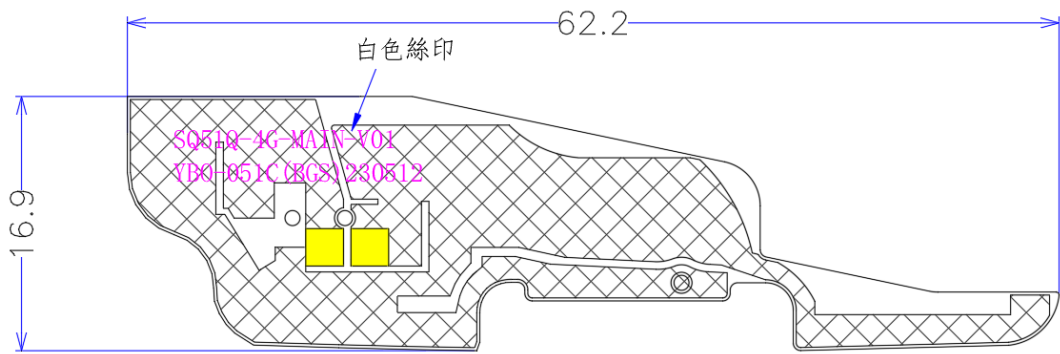
● Efficiency and Gain:

Freq (MHz)	Effi (%)	Gain (dBi)	Freq (MHz)	Effi (%)	Gain (dBi)	Freq (MHz)	Effi (%)	Gain (dBi)
700	13.4	-2.87	1700	35.87	2.01	2300	37	1.3
710	15.53	-3.41	1720	40.26	2.52	2320	40.66	1.5
720	20.17	-3.49	1740	41.8	3.06	2340	44.02	1.68
730	23.21	-2.98	1760	41.87	2.99	2360	47.1	1.89
740	23.76	-3.42	1780	42.26	2.83	2380	47.07	1.68
750	25.11	-2.83	1800	35.97	2.3	2400	46.65	1.73
760	26.65	-3.26	1820	37.59	2.45	2420	41.45	1.37
770	26.2	-2.48	1840	43.93	2.79	2440	40.39	1.21
780	27.94	-2.79	1860	45.09	2.65	2460	35.86	0.8
790	30.9	-1.35	1880	46.46	2.07	2480	33.35	0.65
800	34.52	-1.95	1900	44.4	1.74	2500	32.76	0.72
810	37.06	-1.36	1920	41.76	1.67	2520	30.31	0.38
820	37.33	-1.75	1940	46.08	2	2540	31.5	0.67
830	36.3	-0.65	1960	44.86	1.78	2560	34.31	0.83
840	38.22	-0.33	1980	42.63	1.86	2580	36.23	0.3
850	38.05	-0.09	2000	43.01	1.78	2600	38.51	-0.33
860	36.68	0.16	2020	40.65	1.53	2620	37.04	-0.75
870	31.45	-0.76	2040	34	0.73	2640	35.5	-1.21
880	29.23	-0.7	2060	35.62	1.17	2660	33.93	-1.59
890	27.34	-1.44	2080	35.86	1.76	2680	32.03	-1.98
900	27.1	-1.85	2100	34.41	1.55	2700	32.1	-2.76
910	27.82	-2.42	2120	38.15	1.67			
920	24.89	-2.05	2140	42.12	2.24			
930	23.35	-2.17	2160	42.36	2.2			
940	21.66	-1.5	2180	42.22	2			
950	20.45	-0.97	2200	44.18	2.2			
960	18.39	-0.97						

● Pattern



- Structural Size: Examples are as follows:



## 2、DIV Antenna

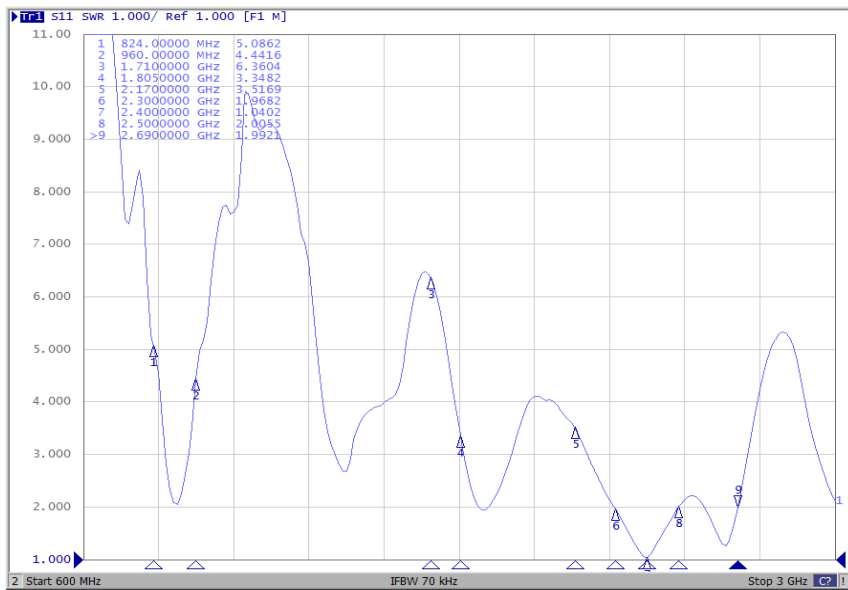
- Technical Parameters

Frequency Range: 700MHz~2690MHz

VSWR:  $\leq 8.1: 1$

GAIN:  $\geq -4.3\text{dBi}$

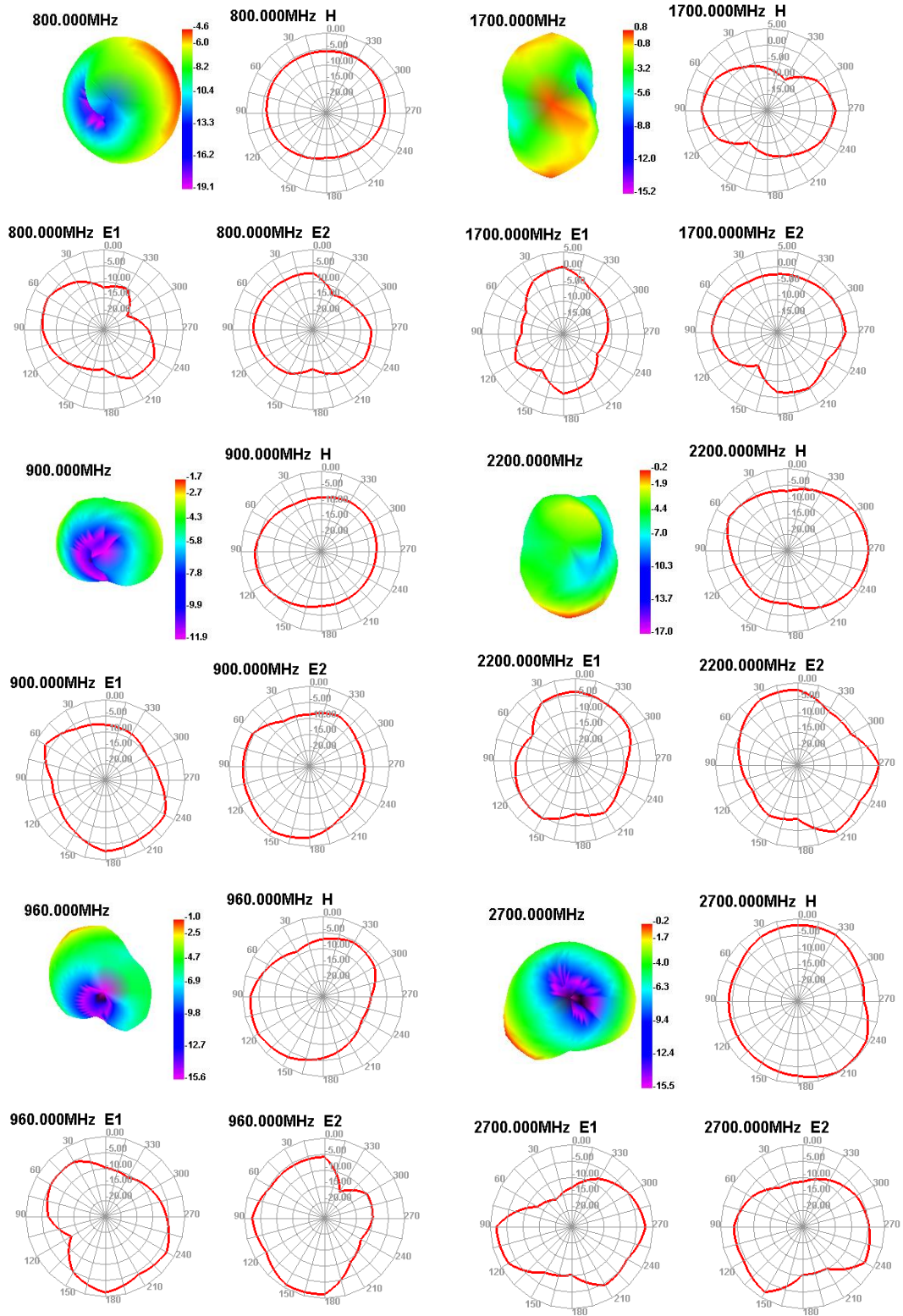
- S11



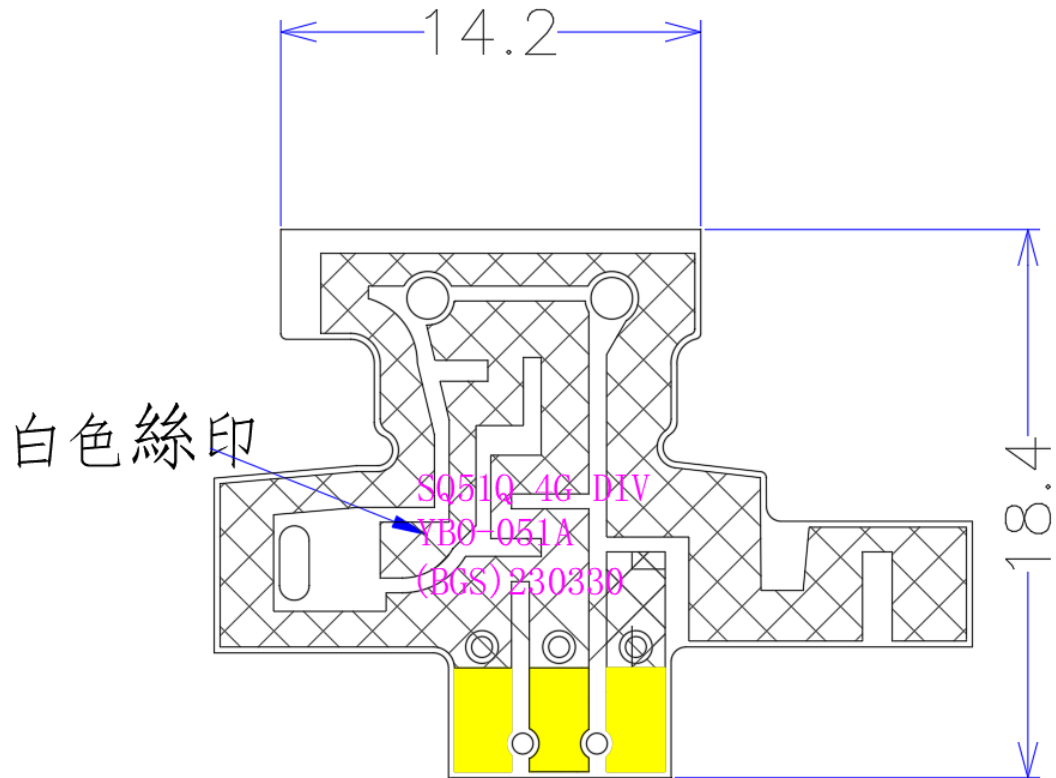
● Efficiency and Gain:

Freq (MHz)	Effi (%)	Gain (dBi)	Freq (MHz)	Effi (%)	Gain (dBi)	Freq (MHz)	Effi (%)	Gain (dBi)
800	16.3	-4.57	1700	28.24	0.82	2220	29.07	-0.86
810	18.3	-3.77	1720	31.99	1.16	2240	24.57	-1.72
820	15.94	-3.93	1740	27.58	0.76	2260	23.96	-2.34
830	15.39	-3.7	1760	28.39	1.52	2280	24.45	-2.62
840	16.06	-3.31	1780	29.51	1.99	2300	25.46	-2.35
850	19.64	-2.54	1800	22.29	0.92	2320	26.69	-2.29
860	24.45	-1.9	1820	20.11	0.4	2340	23.9	-3.13
870	27.15	-1.85	1840	20.49	0.57	2360	23.43	-3.2
880	28.4	-2	1860	26.36	1.11	2380	23.43	-3.08
890	27.69	-1.9	1880	22.22	0.89	2400	22.72	-3.4
900	26.07	-1.7	1900	38.7	0.83	2420	22.72	-3.34
910	22.67	-2.03	1920	39.99	1.26	2440	21.13	-3.92
920	24.55	-1.64	1940	34.4	1.93	2460	20.65	-4.28
930	24.02	-1.84	1960	37.21	2.4	2480	21.66	-4.22
940	28.03	-1.12	1980	35.03	2.15	2500	22.28	-4.27
950	26.29	-1.06	2000	31.03	1.56	2520	22.21	-4.24
960	25.45	-1.03	2020	31.31	1.36	2540	22.83	-3.13
			2040	33.86	0.41	2560	25.24	-2.33
			2060	35.08	0.63	2580	28.13	-1.72
			2080	38.1	0.88	2600	25.25	-1.9
			2100	39.9	0.87	2620	25.91	-1.57
			2120	34.9	1.5	2640	26.73	-1.38
			2140	34.63	1.65	2660	27.29	-1.15
			2160	30.24	1.06	2680	31.1	-0.52
			2180	28.09	0.59	2700	34.63	-0.18
			2200	27.56	-0.24			

● Pattern



- Structural Size



### 3、GPS&WIFI&BT Antenna

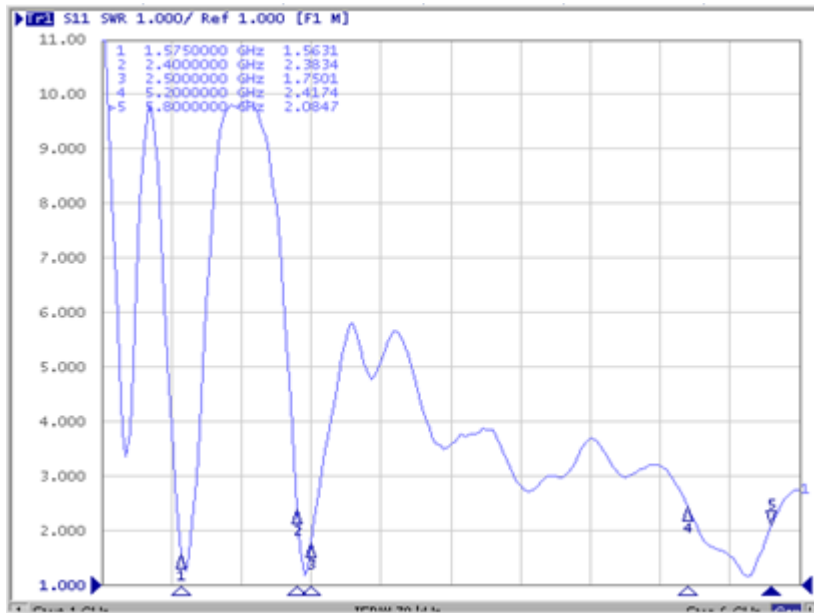
- Technical Parameters

Frequency Range : 1575MHz , 2400MHz~2500MHz ,  
5150MHz~5850MHz

VSWR:  $\leq 2.41: 1$

GAIN:  $\geq -1.45\text{dBi}$

- S11



● Efficiency and Gain:

Freq (MHz)	Effi (%)	Gain (dBi)	Freq (MHz)	Effi (%)	Gain (dBi)	Freq (MHz)	Effi (%)	Gain (dBi)
1560	30.28	-2.18	2400	37.22	0.17	5200	52.49	2.03
1561	30.35	-2.16	2410	38.84	0.27	5220	53.22	2.1
1562	30.53	-2.1	2420	39.14	0.33	5240	50.69	2.07
1563	30.15	-2.02	2430	40.8	0.35	5260	53.45	2.43
1564	30.05	-1.96	2440	38.13	0.09	5280	48.99	1.91
1565	30.34	-1.88	2450	37.95	-0.18	5300	50.63	1.83
1571	31.72	-1.49	2460	36.42	-0.38	5320	48.78	1.56
1572	31.71	-1.48	2470	35.42	-0.94	5340	48.17	1.3
1573	31.6	-1.21	2480	34.94	-1.29	5360	49.83	1.08
1574	31.35	-1.25	2490	33.97	-1.55	5380	48.96	0.73
1575	31.02	-1.28	2500	32.3	-2.11	5400	48.4	0.4
1576	30.6	-1.27				5420	48.36	0.68
1577	30.13	-1.25				5440	47.92	0.97
1578	29.75	-1.81				5460	48.4	1.22
1579	29.43	-1.88				5480	48.81	1.22
1580	29.29	-1.88				5500	47.3	0.84
						5520	46.61	1.06
						5540	47.04	1.18
						5560	46.69	1.37
						5580	45.84	1.36



5600	45.87	1.38
5620	42.62	0.94
5640	40.31	0.29
5660	38.43	-0.07
5680	38.59	0
5700	36.17	-0.3
5720	35.58	-0.17
5740	36.75	0.36
5760	35.79	0.21
5780	36.76	0.23
5800	36.55	0.29

● Pattern

