



Shenzhen Shundacheng Technology Co., Ltd.

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Antenna Test Report



Customer Name: XinGu

Project Name: ST11-A8

FRE: GSM (850/900/1800/1900) W(1/2/5/8);LTE-(B1B2/B3/B4/B5/B7/B8/B12/B20/B28/
B34/B38/B39/B40/B41);NR-(N1/N5/N8/N28/N41/N78);WIFI&GPS

Version: A

DATE: 2025-4-29



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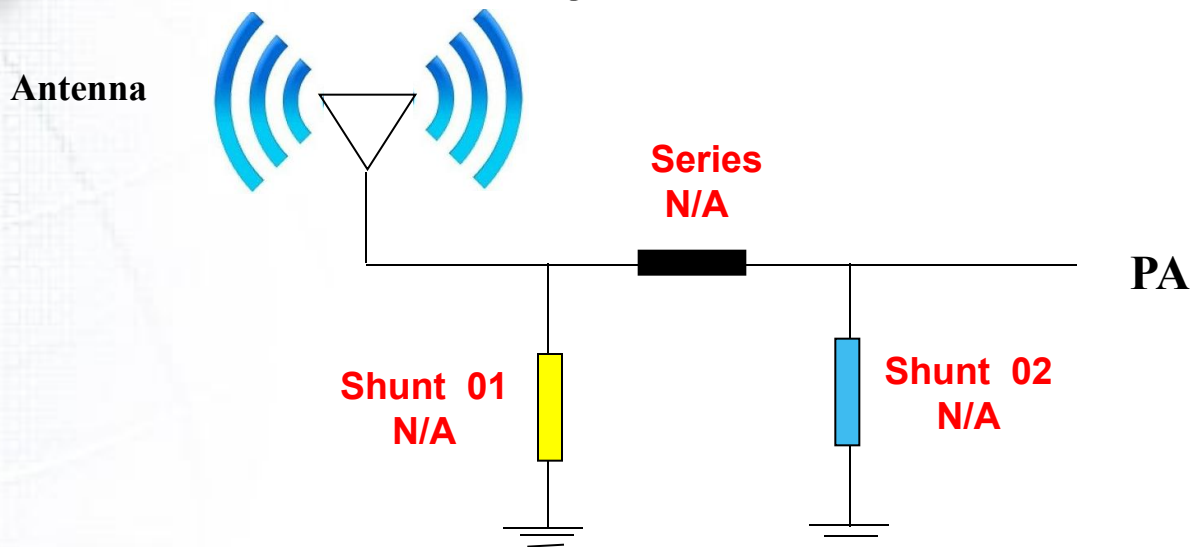
1. Test system

Sequence Number	Test Item	equipment
S parameter	VSWR	Agilent 5071C & Agilent 5062A
OTA Test	TRP&TIS	Agilent 8960 E5515C& Agilent 4438C&CMW500 &CMW2 ETS&SATIMO
Gain & Efficiency	Gain & Efficiency	ETS&SATIMO Agilent 5071C





2. Antenna Matching Network



Location	Description	Vendor
Shunt 01	N/A	N/A
Series	N/A	N/A
Shunt 02	N/A	N/A

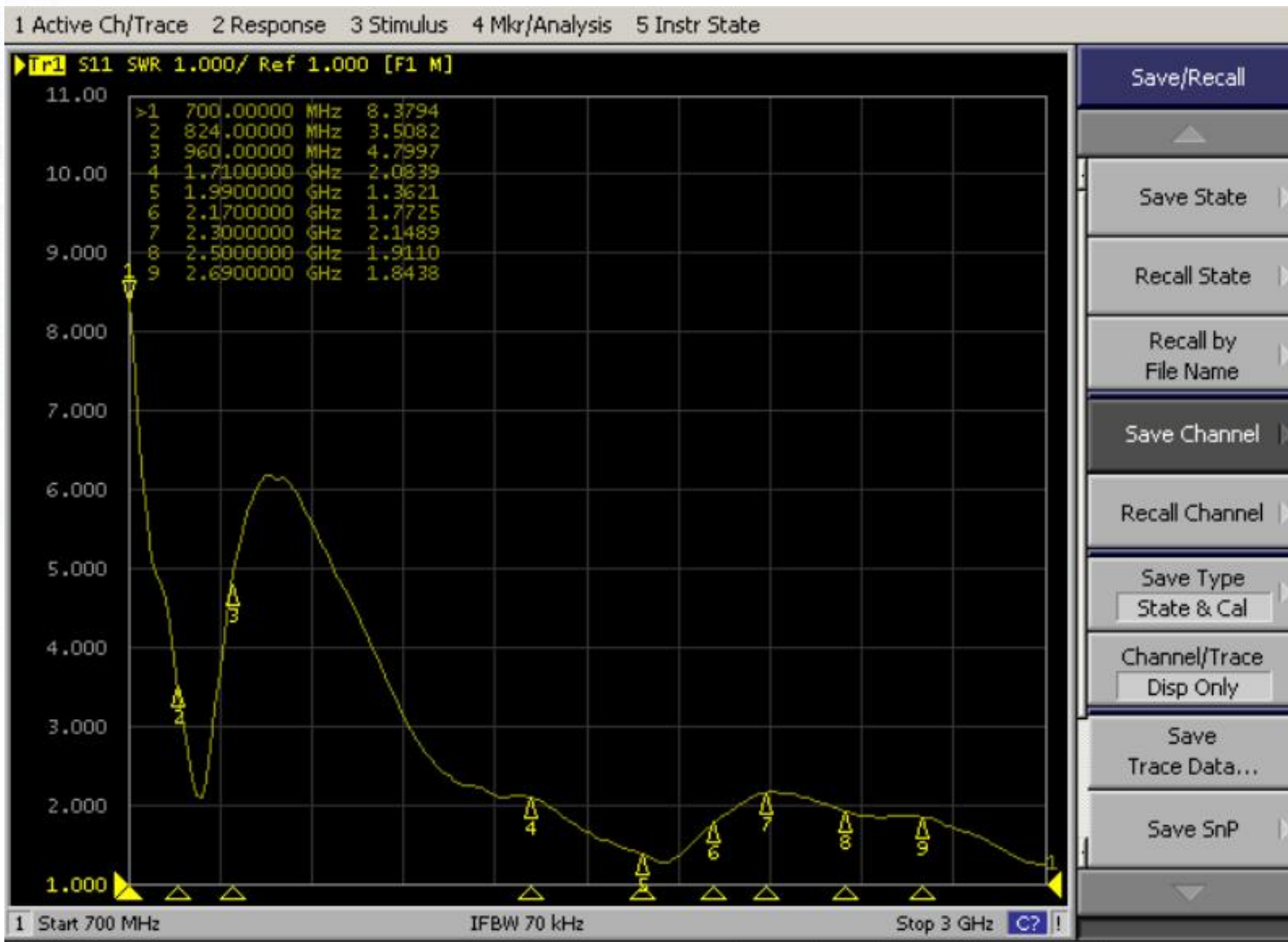
Mainboard
matching circuit
remains unchanged



S11 Parameter-SWR

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Gain & Efficiency

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Freq (MHz)	Effi (%)	Gain (dBi)
700	14.67	-6.7
710	14.25	-7.24
720	14.02	-7.82
730	15.42	-6.18
740	18.57	-4.15
750	23.38	-1.84
760	24.26	-1.44
770	19.75	-3.18
780	19.73	-3.37
790	23.93	-2.16
800	22.48	-0.24
810	30.63	1.13
820	30.04	1.01
830	23.01	0.17
840	19.08	-0.36
850	17.14	-0.62
860	19.01	-0.08
870	23.25	0.65
880	27.67	1.14
890	29.41	1.43
900	28.29	1.46
910	26.9	1.57
920	26.81	1.79
930	23.99	1.61
940	28.93	0.67
950	23.17	-0.75
960	19.37	-2.08

Freq (MHz)	Effi (%)	Gain (dBi)
1700	30.13	2.2
1710	34.56	2.9
1720	41.43	3.61
1730	49.45	4.24
1740	43.56	3.74
1750	37.76	3.02
1760	35.46	2.58
1770	33.78	2
1780	37.59	2.43
1790	37.95	2.44
1800	37.42	2.28
1810	34.25	1.85
1820	31.19	1.41
1830	5.56	1.28
1840	42.18	1.59
1850	52.18	1.72
1860	51.32	1.68
1870	47.69	1.14
1880	45.11	0.57
1890	42.7	-0.05
1900	41.1	-0.52
1910	41.91	-0.38
1920	40.16	-0.64
1930	39.59	-0.44
1940	36.6	-0.98
1950	34.1	-1.87
1960	33.13	-2.26
1970	33.17	-1.57
1980	33.93	-0.65
1990	35.2	0.23
2000	34.38	0.31

Freq (MHz)	Effi (%)	Gain (dBi)
2100	39.15	1.47
2110	39.14	1.31
2120	43.88	2.06
2130	44.22	1.88
2140	42.34	1.18
2150	41.26	0.61
2160	37.69	-0.45
2170	39.48	-0.36
2180	40.61	-0.32
2190	43.65	-0.13
2200	46.79	0.14
2210	46.54	0.16
2220	45.23	-0.04
2230	46.82	0.17
2240	46.27	0.2
2250	48.99	0.67
2260	49.65	0.63
2270	49.75	0.69
2280	48.43	0.39
2290	43.39	-0.17
2300	43.55	0.15
2310	44.29	0.5
2320	47.67	1.19
2330	50.57	1.51
2340	49.89	1.43
2350	46.79	0.92
2360	45.37	0.58
2370	43.22	0.02
2380	45.68	0.24
2390	44.88	-0.09
2400	44.36	-0.21
2410	42.71	-0.56
2420	42.01	-0.71
2430	44.17	-0.38
2440	45.4	-0.31
2450	47.96	0.05

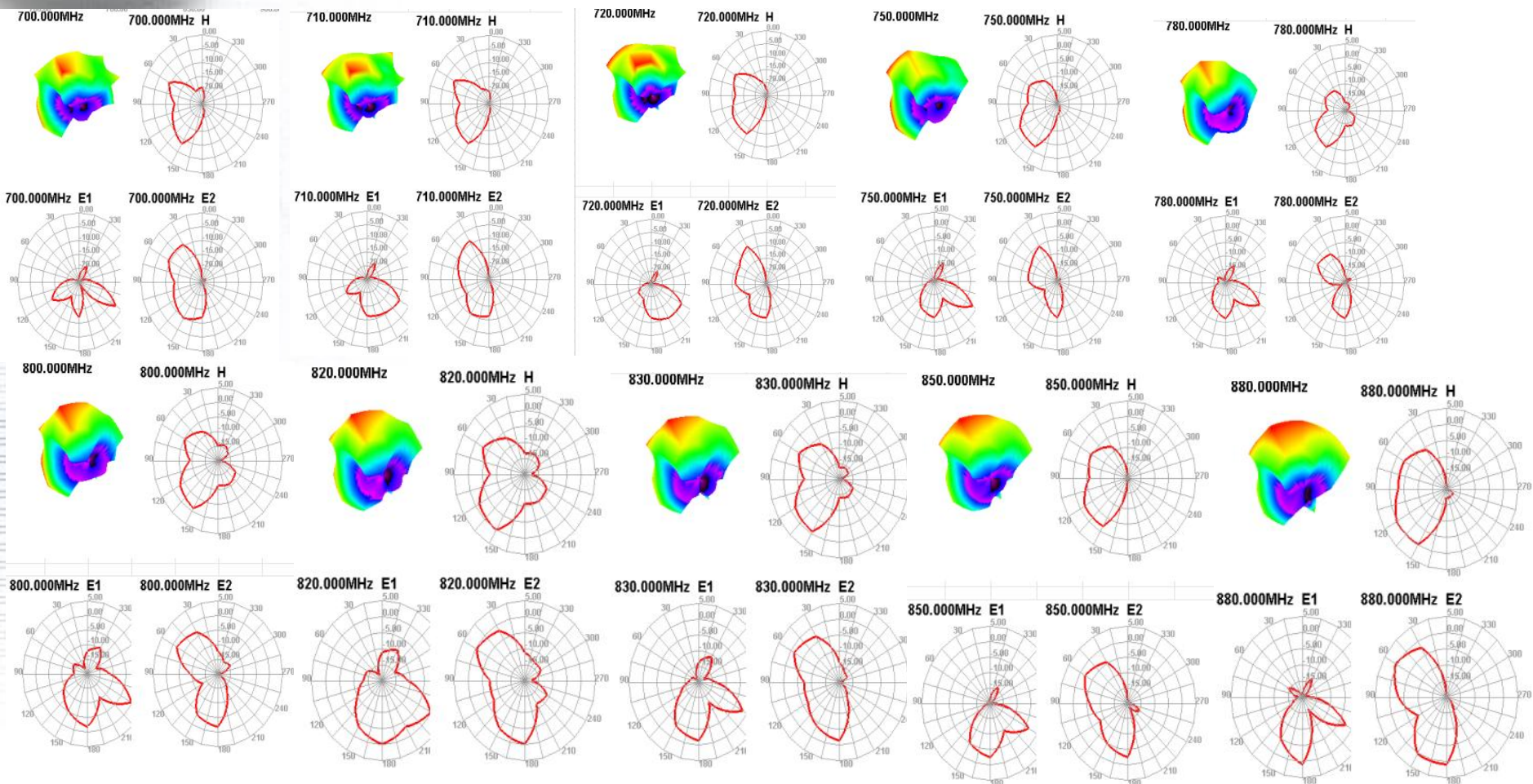
2460	44.98	-0.42
2470	44.72	-0.37
2480	43.94	-0.41
2490	43.93	-0.29
2500	41.61	-0.7
2510	37.66	-1.6
2520	32.9	-2.98
2530	30.86	-4.24
2540	29.54	-4.89
2550	29.13	-5.01
2560	30.25	-5.23
2570	31.64	-4.76
2580	32.79	-4.7
2590	33.16	-4.71
2600	34.86	-3.9
2610	36.41	-3.51
2620	37.17	-3.27
2630	40.64	-2.82
2640	41.13	-2.92
2650	38.74	-3.36
2660	36.21	-3.81
2670	34.34	-4.03
2680	35.64	-3.56
2690	35.35	-3.52
2700	34.11	-3.75



Gain & Efficiency

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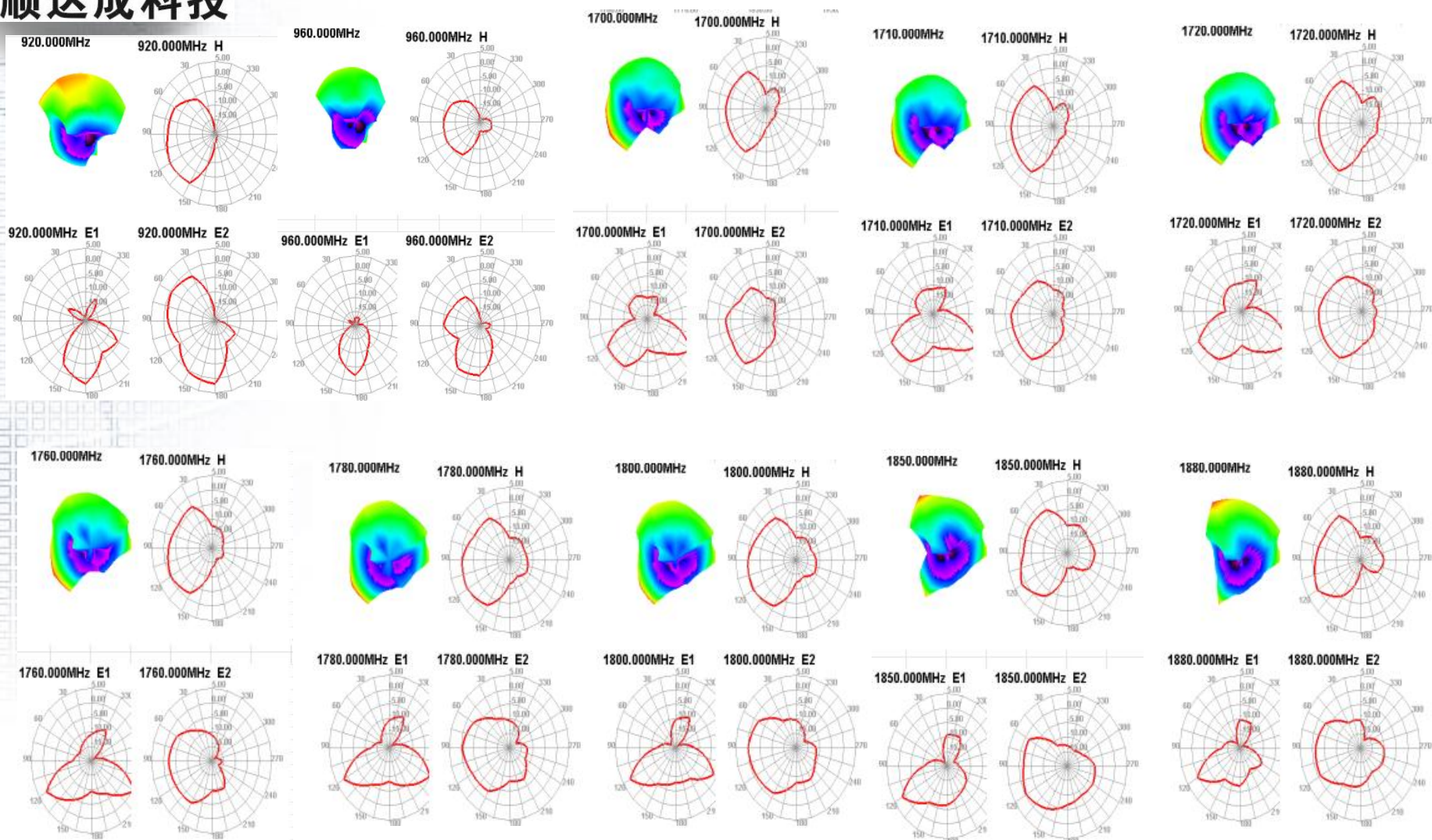




Gain & Efficiency

ANT0

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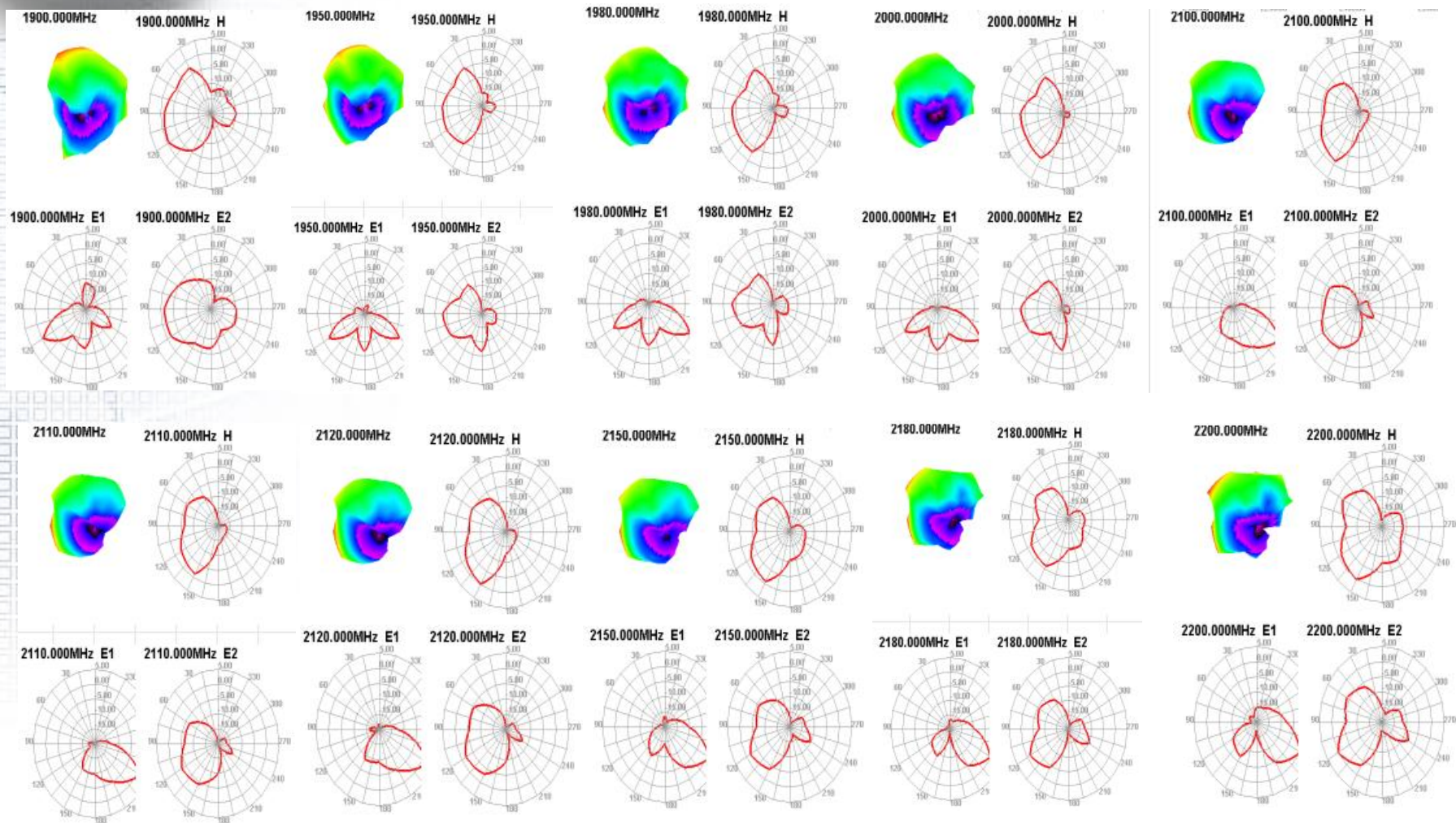




Gain & Efficiency

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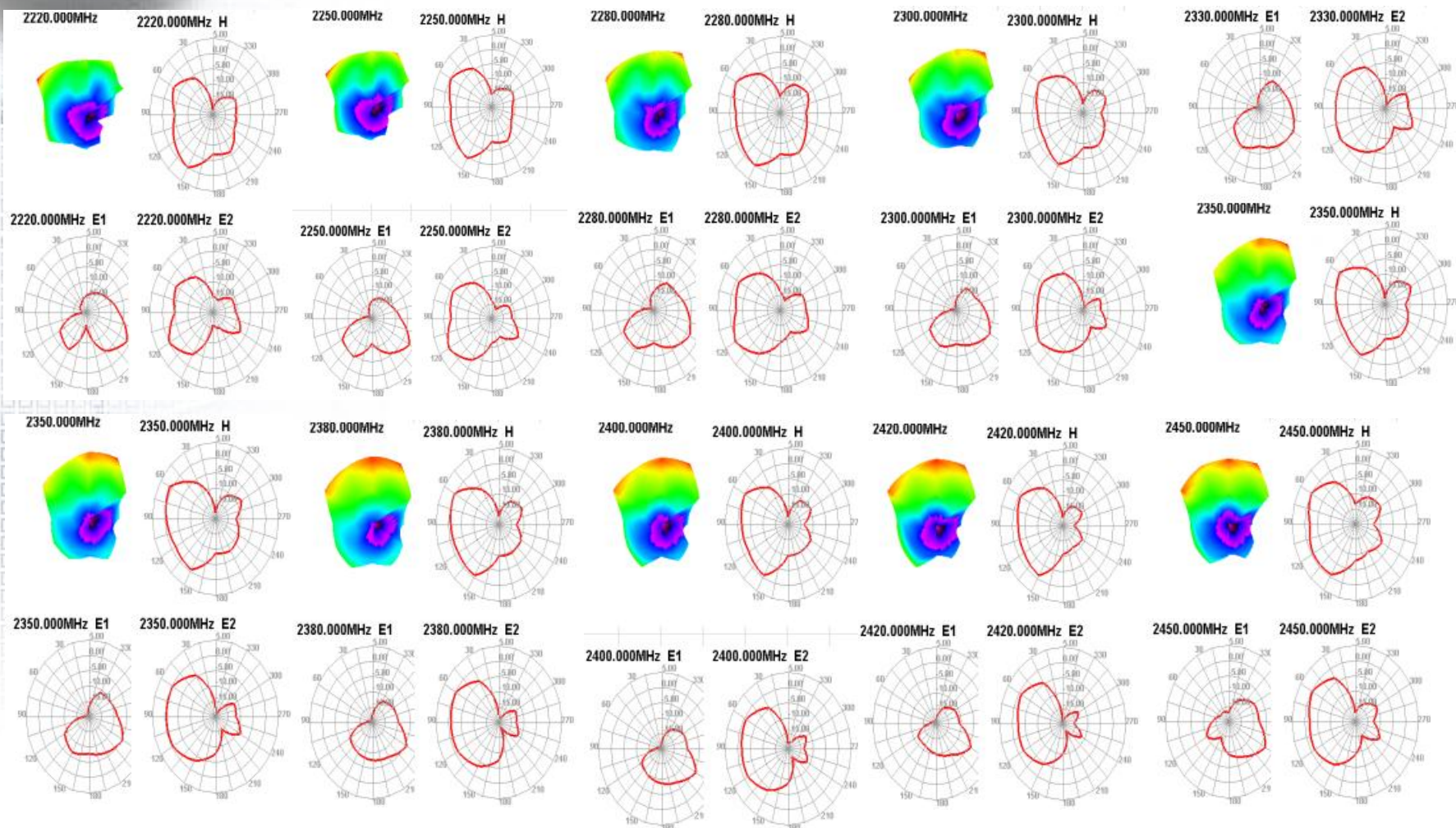




Gain & Efficiency

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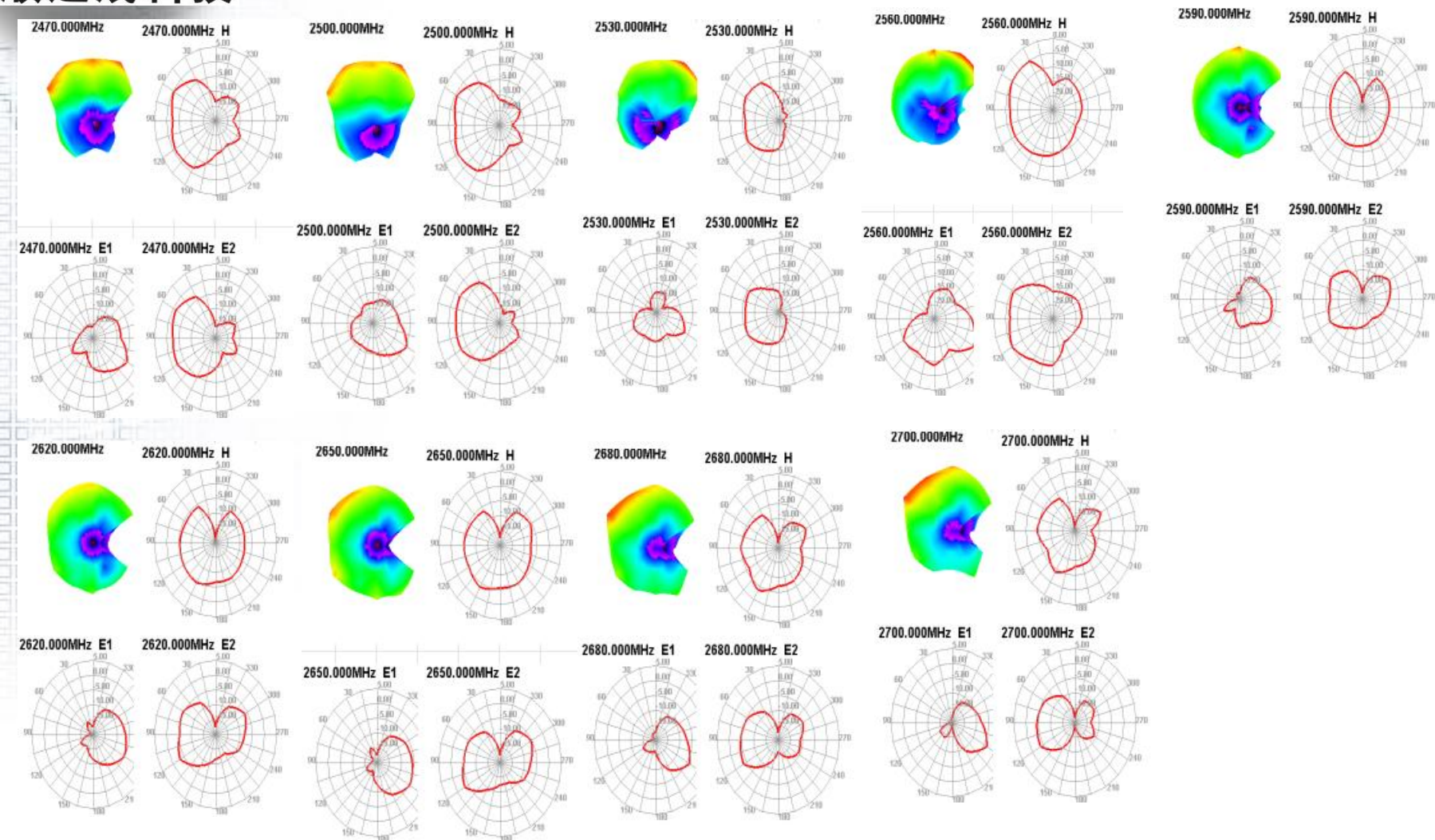




Gain & Efficiency

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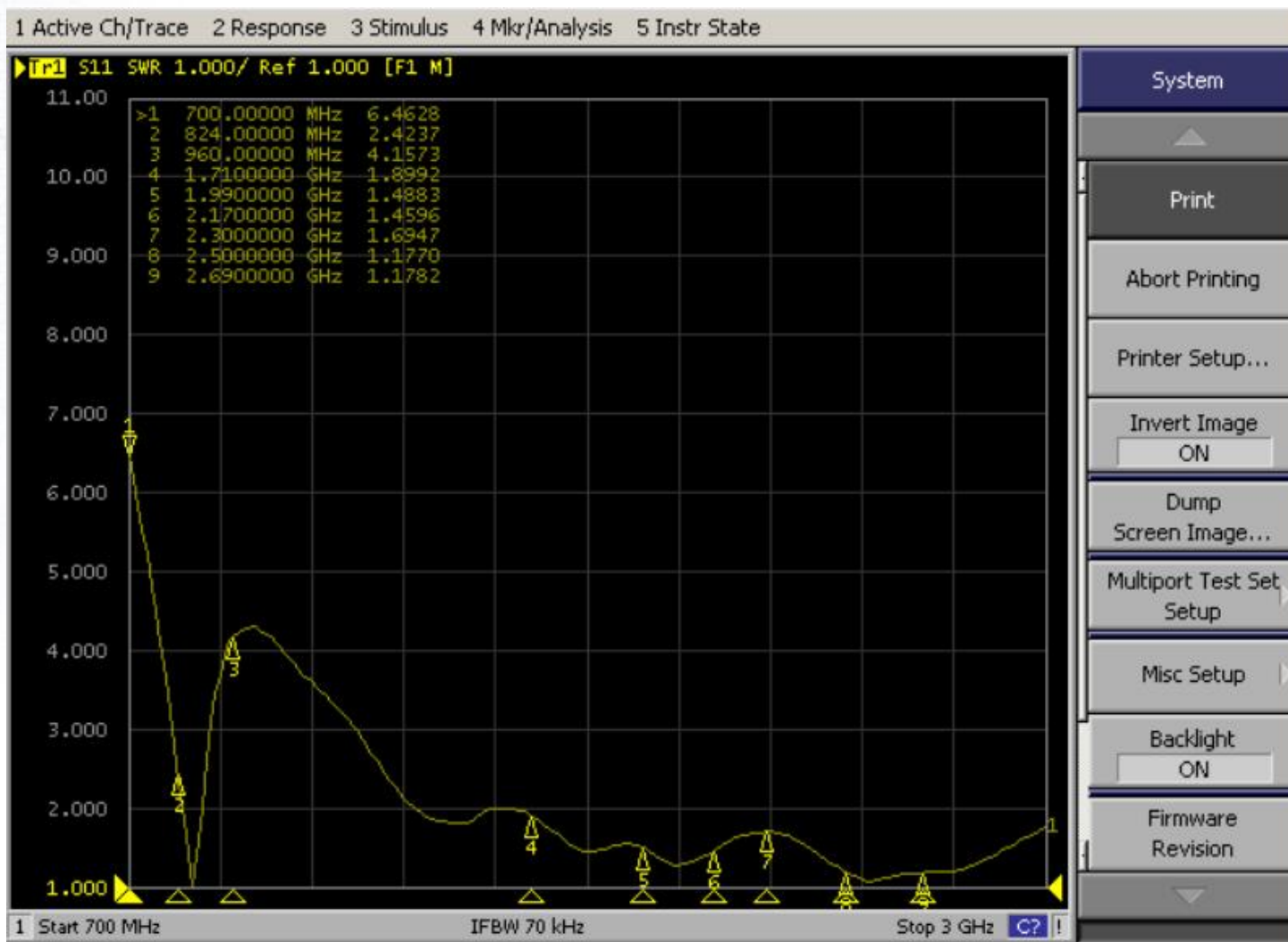




S11 Parameter-SWR

ANT1

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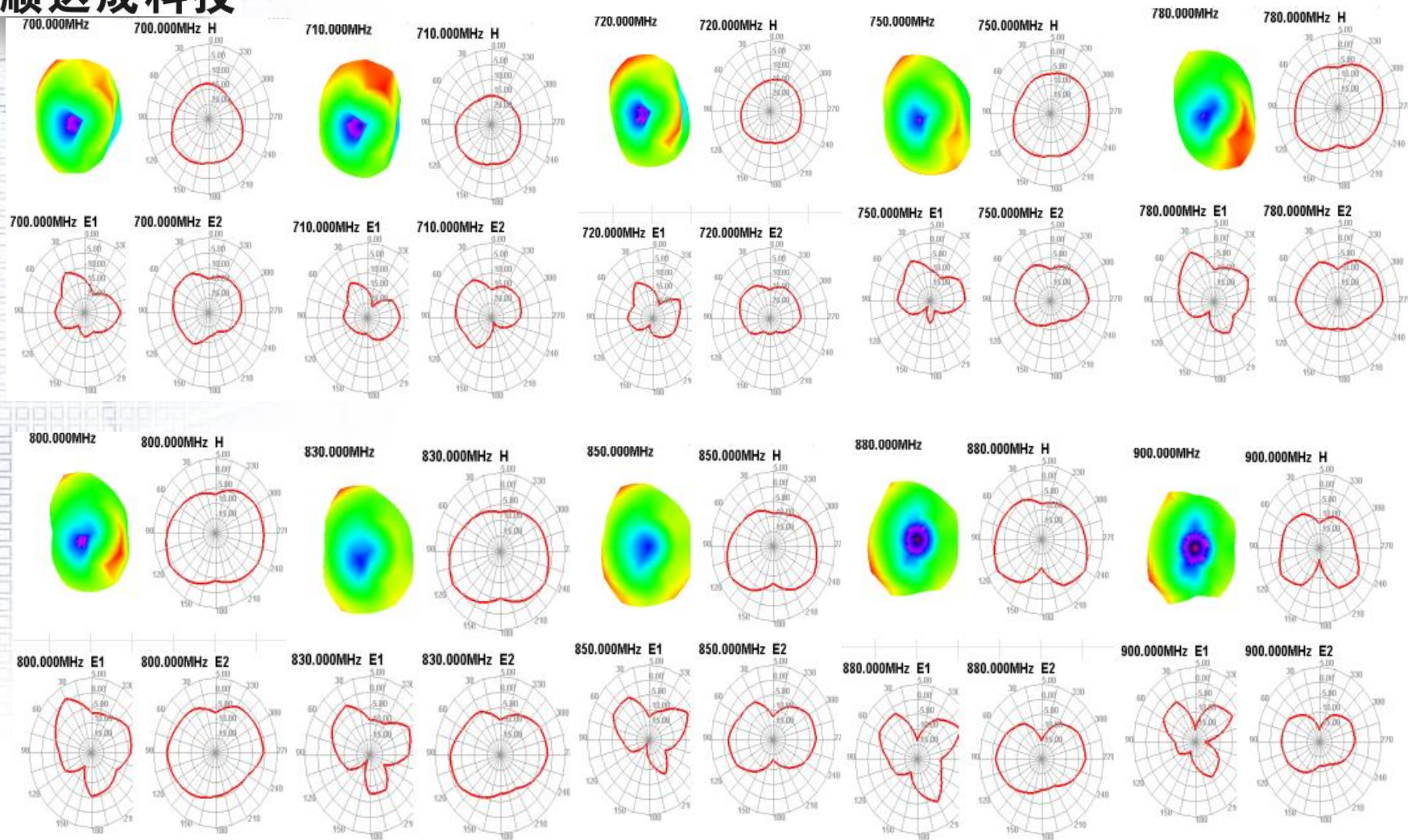




Gain & Efficiency

ANT1

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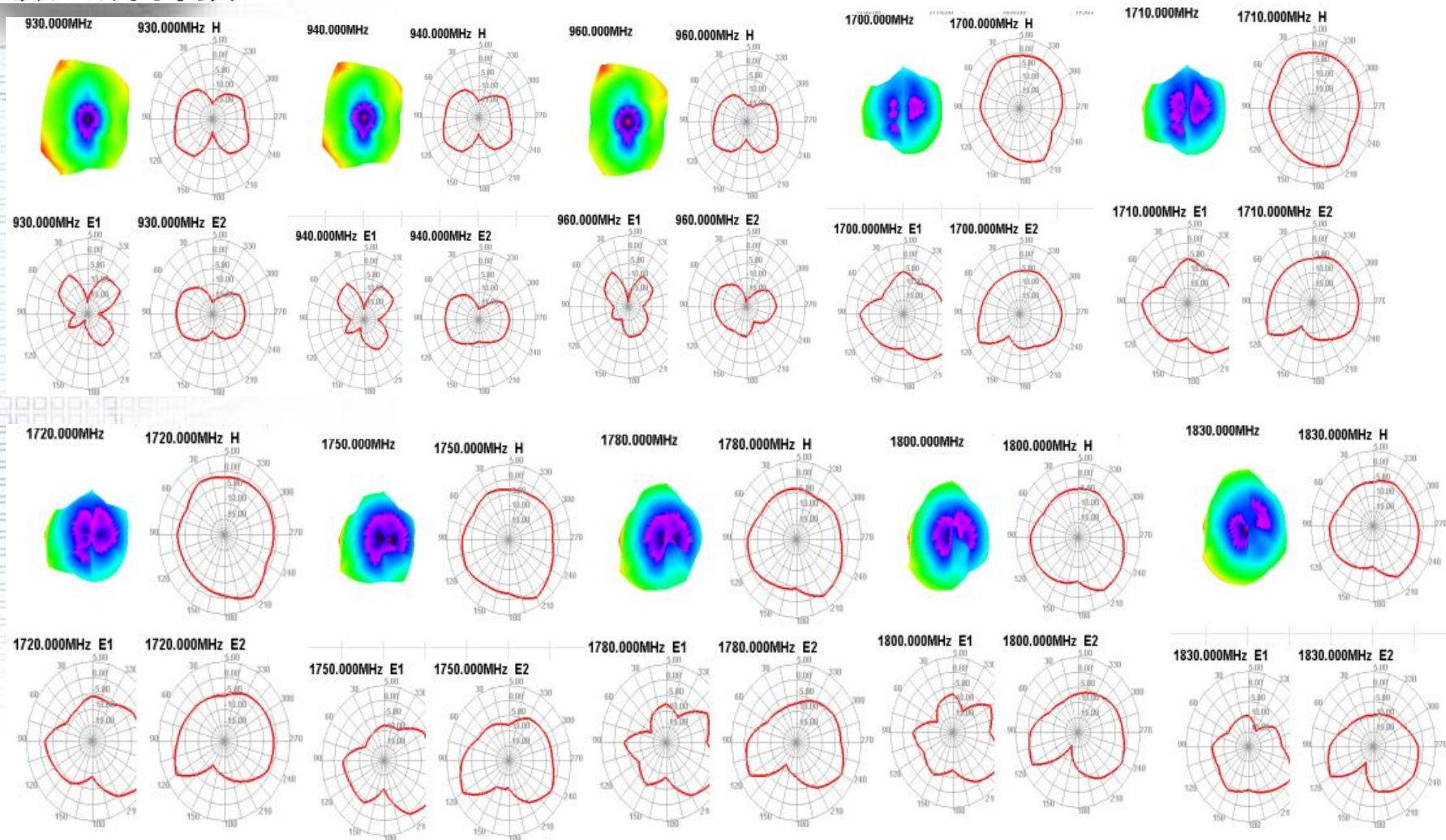




Gain & Efficiency

ANT1

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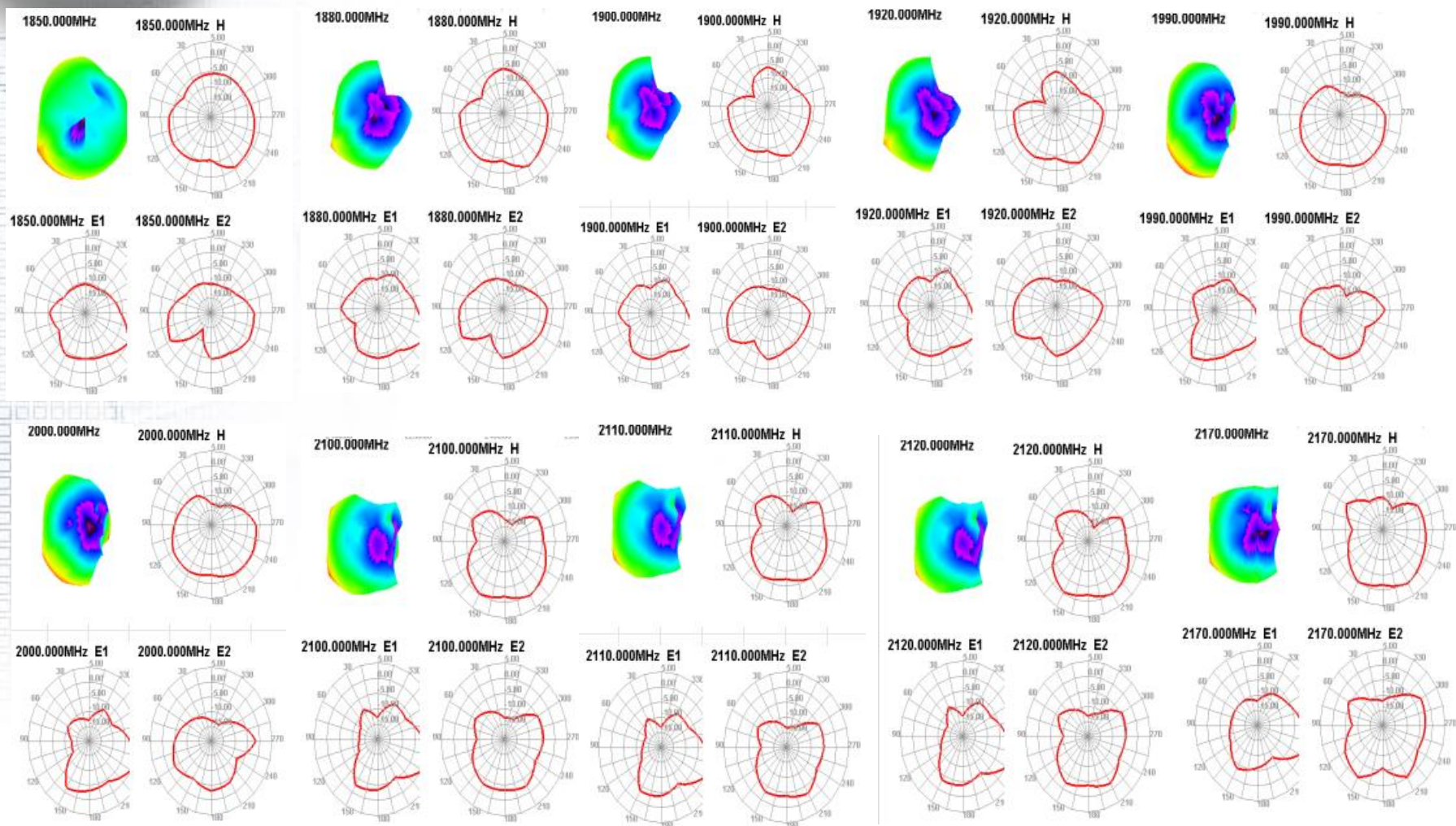




Gain & Efficiency

ANT1

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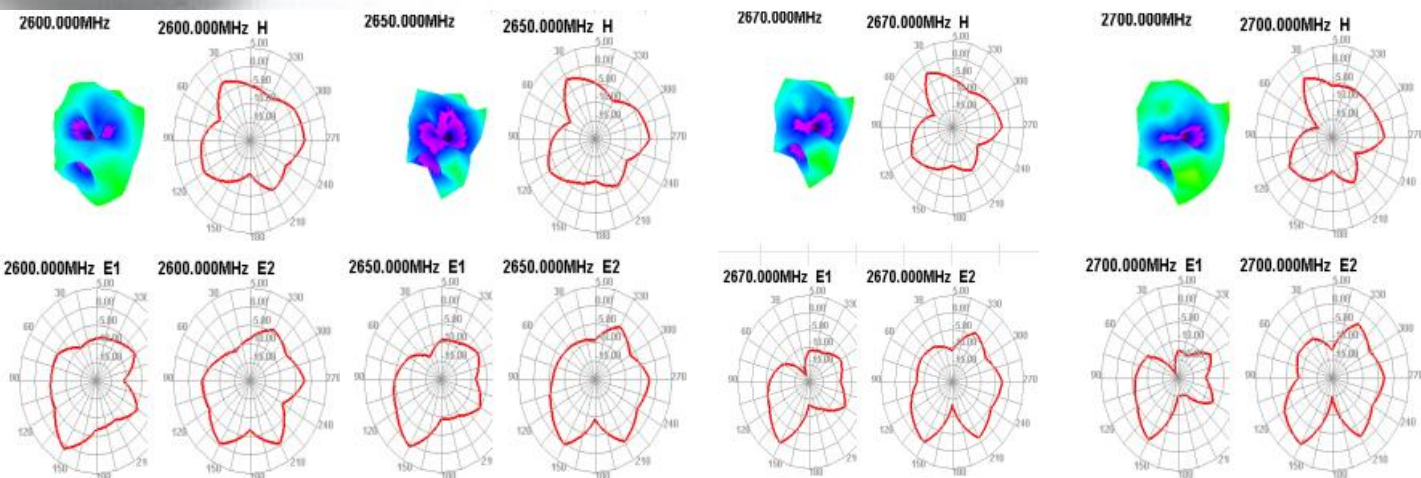




Gain & Efficiency

ANT1

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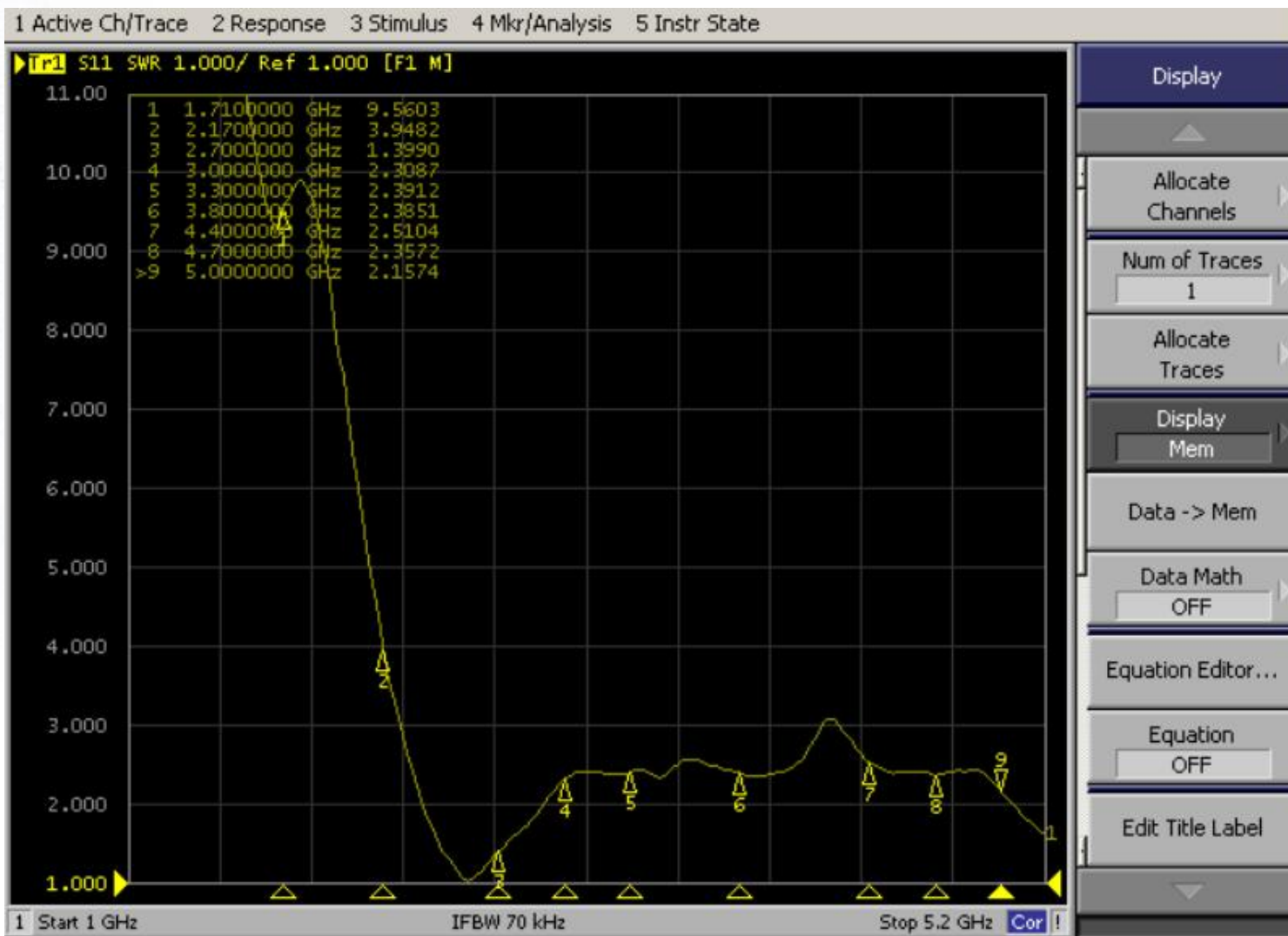




S11 Parameter-SWR

ANT2

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Gain & Efficiency

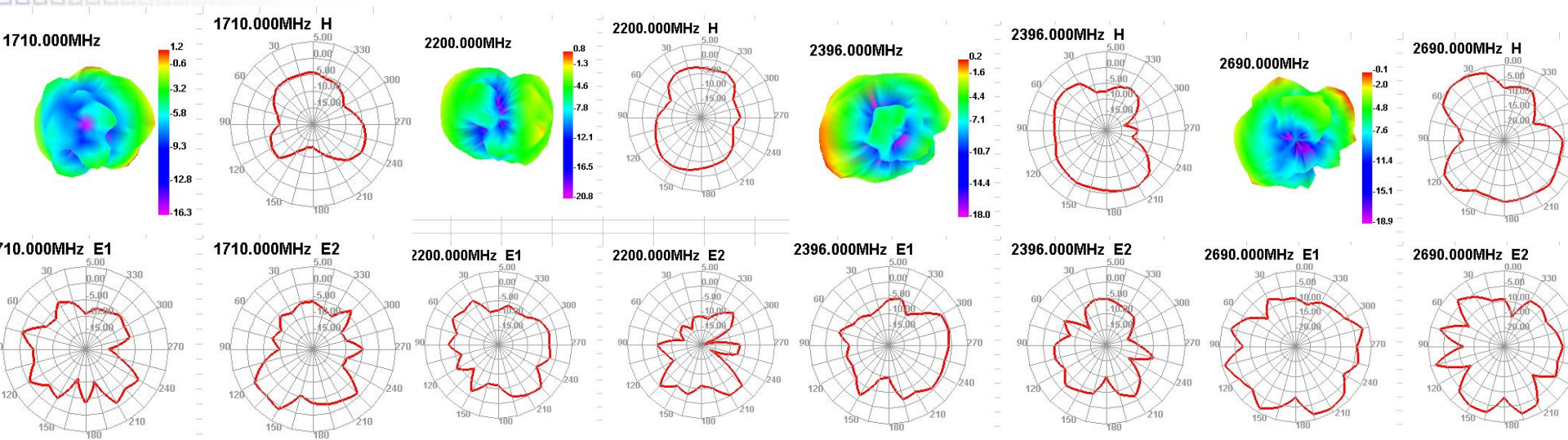
ANT2

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Passive Test For 高频-4G

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHIS (%)	Max (dB)	Min (dB)	Attenut Hor	Attenut Ver
1710	38.79	-4.11	1.17	-0.98	13.149	25.645	1.17	-16.27	46.1	45.85
1808	39.22	-4.06	1.71	-0.44	13.858	25.362	1.71	-16.6	45.94	45.78
1906	45.21	-3.45	1.56	-0.59	16.859	28.355	1.56	-16.44	46.52	46.42
2004	49.18	-3.08	2	-0.15	20.004	29.177	2	-18.95	47.82	47.69
2102	49.07	-3.09	1.77	-0.38	19.855	29.211	1.77	-20.05	48.74	48.34
2200	39.1	-4.08	0.83	-1.32	15.504	23.596	0.83	-20.78	48.7	48.38
2298	39.23	-4.06	0.08	-2.07	16.505	22.72	0.08	-14.15	49.66	49.14
2396	37.3	-4.28	0.2	-1.95	14.81	22.489	0.2	-18	50.64	50.23
2494	52.05	-2.84	2.08	-0.07	18.934	33.12	2.08	-14.3	52.53	52.43
2592	38.96	-4.09	1.14	-1.01	13.905	25.054	1.14	-16.84	51.57	51.01
2690	34.13	-4.67	-0.1	-2.25	12.838	21.293	-0.1	-18.91	52.42	51.97

1710.00MHz - 2690.00MHz Gain





Gain & Efficiency

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Freq (MHz)	Effi (%)	Gain (dBi)
2400	47.34	-0.72
2410	45.7	-1.17
2420	44.78	-1.39
2430	44.07	-1.51
2440	45.69	-1.17
2450	50.17	-0.49
2460	49.27	-0.44
2470	49.62	-0.28
2480	45.17	-0.96
2490	48.76	-0.47
2500	47.7	-0.73
2510	48.44	-0.75
2520	46.74	-1.15
2530	46.81	-1.34
2540	45.76	-1.77
2550	42.38	-2.69
2560	41.23	-3.3
2570	39.98	-3.74
2580	40.88	-3.37
2590	39.48	-3.55
2600	38.26	-3.83
2610	35.78	-4.62
2620	34.42	-5.16
2630	35.36	-5.05
2640	35.64	-4.96
2650	37.36	-4.29
2660	38.83	-3.71
2670	38.97	-3.5
2680	37.29	-3.7
2690	36.17	-3.83
2700	31.58	-6.13

Freq (MHz)	Effi (%)	Gain (dBi)
3300	29.63	-3.28
3320	29.29	-2.85
3340	26.87	-3.1
3360	29.89	-2.1
3380	30.81	-1.9
3400	35.85	-1.15
3420	26.45	-1.08
3440	28.71	-0.63
3460	25.78	-0.94
3480	26.21	-0.64
3500	23.21	-0.84
3520	24.24	-0.43
3540	24.46	-0.39
3560	27.56	-0.03
3580	26.87	-0.32
3600	28.61	-0.4
3620	25.65	-1.21
3640	27.76	-0.54
3660	25.72	-0.76
3680	28.38	-0.41
3700	28.79	0.14
3720	33.01	1.17
3740	33.19	1.38
3760	37.66	1.92
3780	33.31	1.39
3800	33.21	1.49
3820	32.81	1.48
3840	30.32	1
3860	28.98	0.7
3880	31.2	1.05
3900	32.31	1.16
3920	33.66	1.12
3940	33.87	0.87
3960	33.88	0.82
3980	39.07	1.3

3980	39.07	1.3
4000	34.28	0.4
4020	37.39	0.75
4040	31.71	0.06
4060	32.95	-0.12
4080	32.51	-0.45
4100	34.72	-0.24
4120	31.28	-0.56
4140	34.21	0.09
4160	34.68	0.29
4180	36.91	0.8
4200	40.61	1.56
4220	44.99	2.29
4240	43.74	2.22
4260	44.6	2.3
4280	46.41	2.43
4300	47.49	2.49
4320	49.7	2.52
4340	46.39	2.11
4360	46.46	2.06
4380	48.29	2.22
4400	43.99	1.67
4420	38.85	1.07
4440	40	1.24
4460	33.98	0.77
4480	32.48	0.54
4500	34.5	0.74
4520	31.17	0.45
4540	29.24	0.37
4560	27.5	0.05
4580	29.23	0.43
4600	27.42	0.35
4620	32.66	1.19
4640	27.17	0.44
4660	29.71	0.68
4680	30.23	1
4700	38.45	2.04
4720	24.79	-0.08
4740	27.9	-0.19

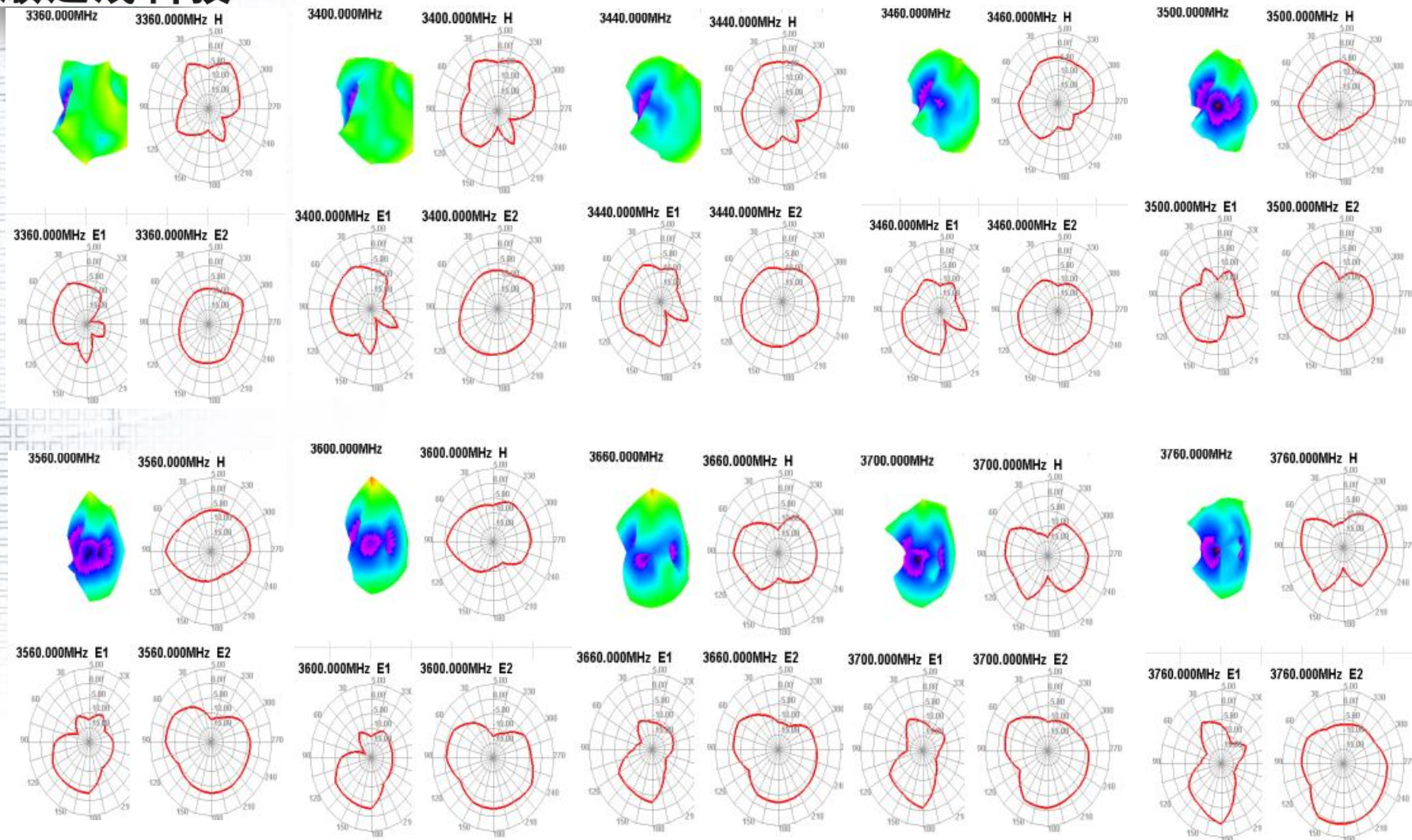
4760	28.53	-0.47
4780	33.81	0.09
4800	32.64	0.08
4820	35.15	0.36
4840	33.9	0.1
4860	37.38	0.44
4880	39.04	0.45
4900	37.8	0.69
4920	40.55	1.15
4940	34.63	0.47
4960	41.01	1.15
4980	35.48	0.44
5000	37.89	0.66



Gain & Efficiency

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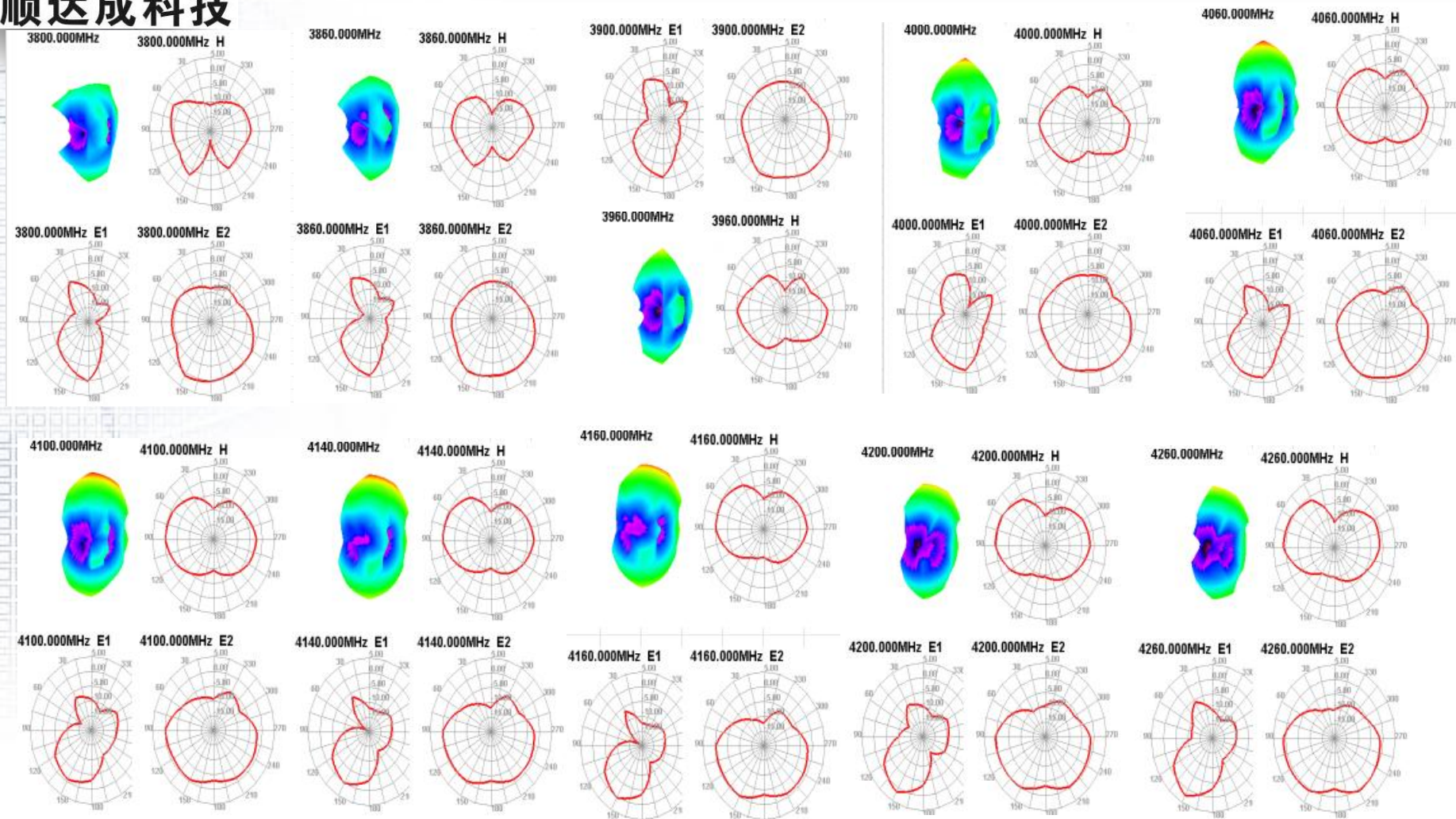




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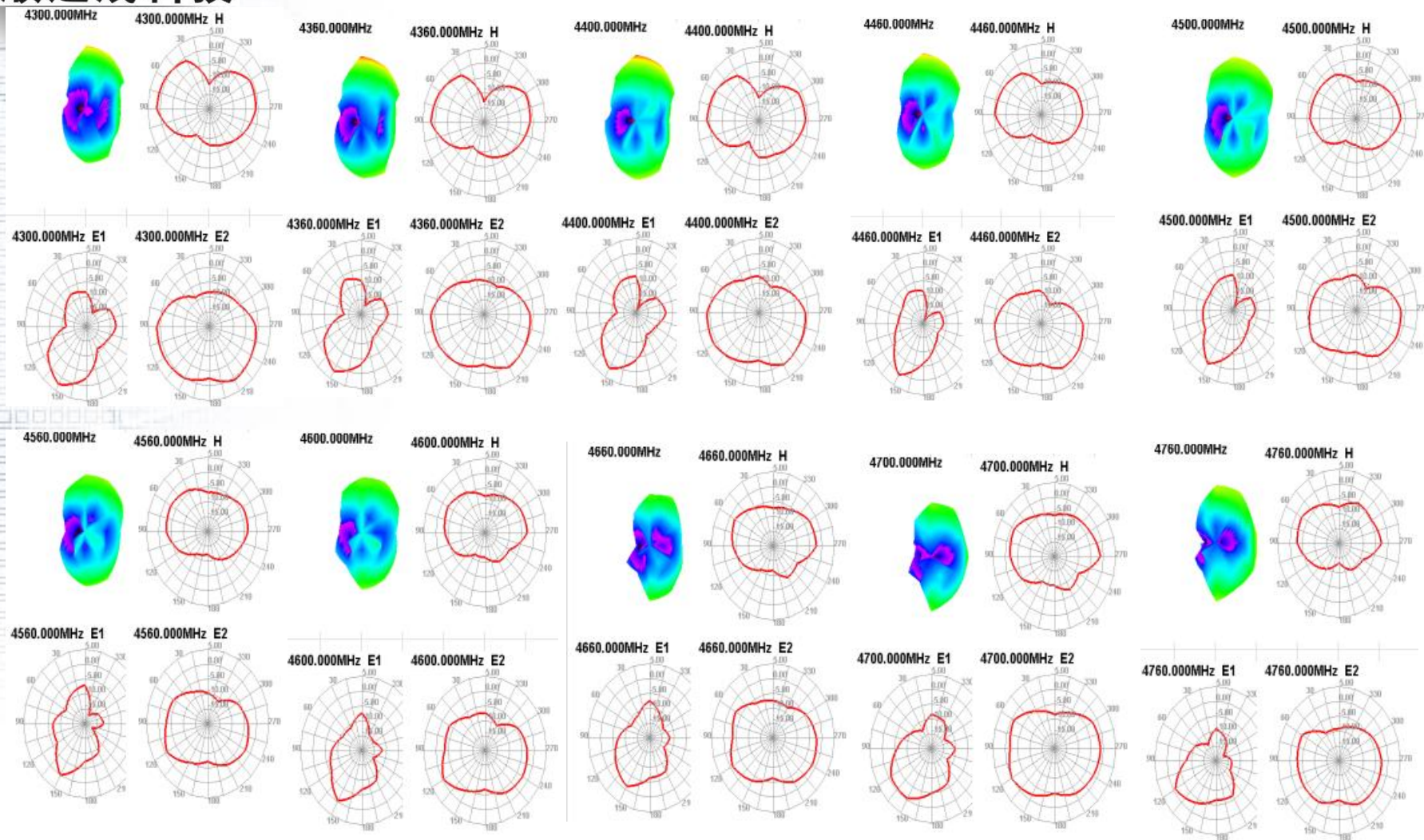




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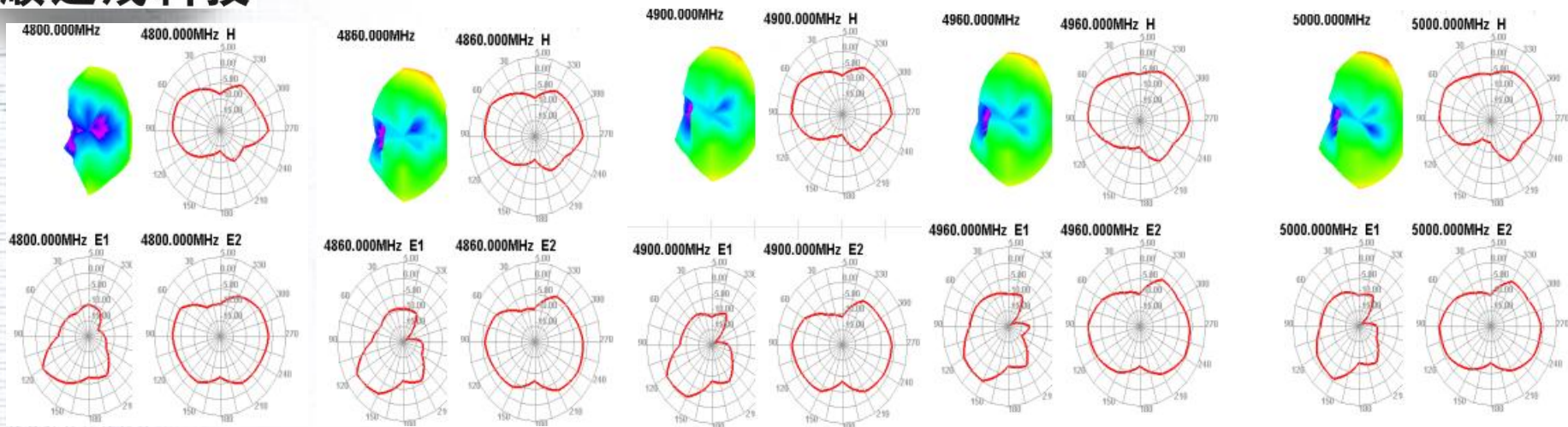




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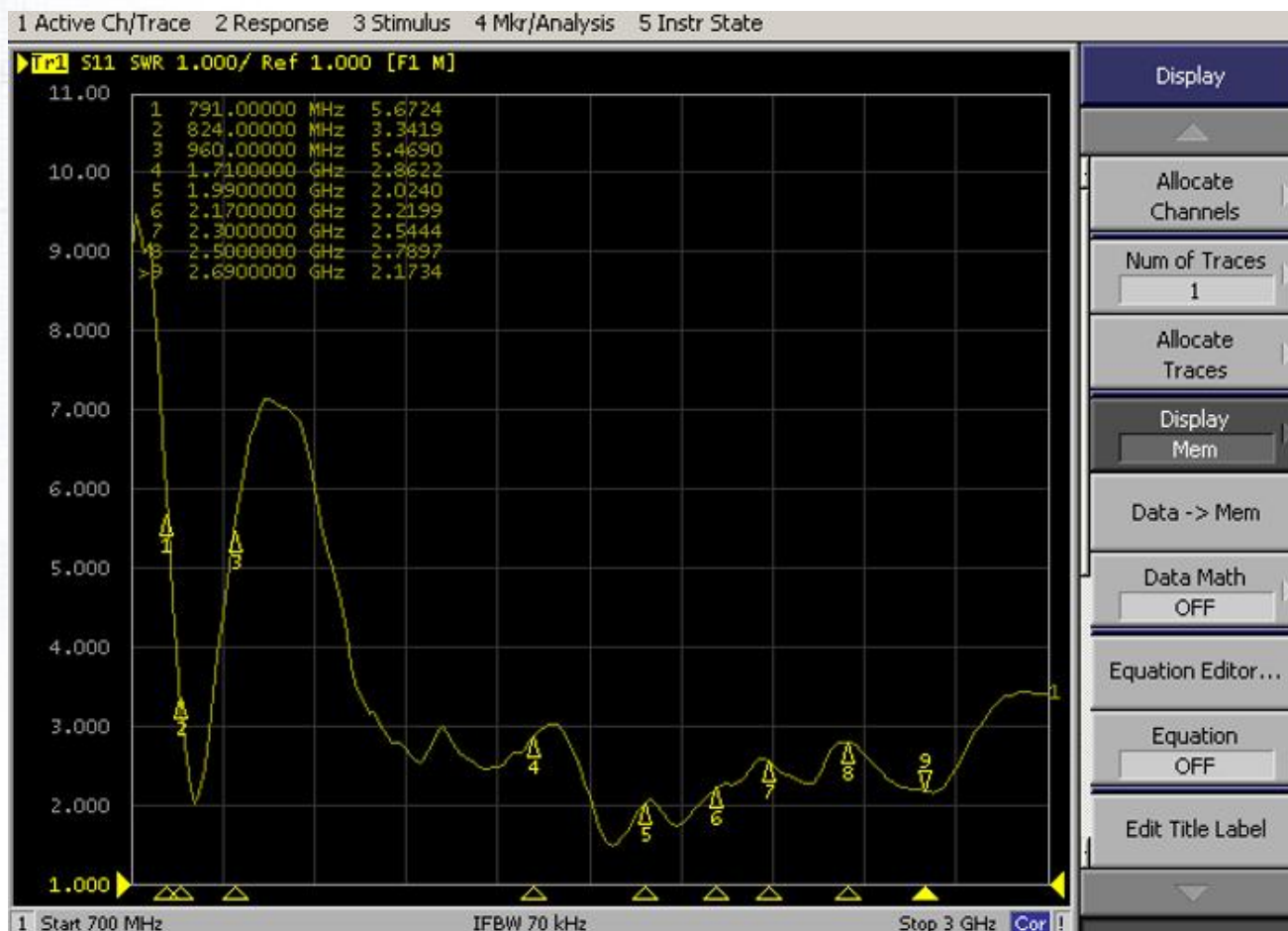




S11 Parameter-SWR

ANT3

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Gain & Efficiency

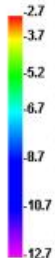
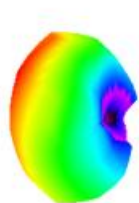
ANT3

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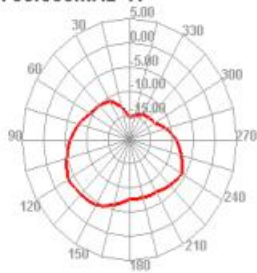
Passive Test For 700-960

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)	Max (dB)	Min (dB)	irectivity (dBi)	Beamwidth (3dB)	AttH (dB)	AttV (dB)
700	16.92	-7.72	-2.69	-4.84	9.734	7.189	-2.69	-17.89	5.02	30	37.86	37.72
726	32.33	-4.9	-0.93	-3.08	15.881	16.45	-0.93	-22.42	3.97	30	37.74	37.21
752	25.58	-5.92	-0.6	-2.75	13.592	11.993	-0.6	-26.34	5.32	60	37.55	36.86
778	20.75	-6.83	-1.3	-3.45	11.68	9.067	-1.3	-23.38	5.53	60	37.15	36.51
804	38.7	-4.12	1.08	-1.07	20.306	18.394	1.08	-20.55	5.2	60	37.33	36.86
830	40.16	-3.65	1.51	-0.64	21.429	21.732	1.51	-19.02	5.16	60	37.15	36.88
856	33.3	-4.78	0.36	-1.79	17.992	15.31	0.36	-24.83	5.14	60	37.8	37.78
882	40.75	-3.79	1.09	-1.06	24.112	17.636	1.09	-19.59	4.88	30	38.4	38.75
908	42.69	-3.04	2.06	-0.09	27.074	22.619	2.06	-17.73	5.1	30	38.64	39.21
934	33.78	-4.71	0.25	-1.9	17.356	16.425	0.25	-19.47	4.96	60	38.25	38.65
960	22.36	-6.51	-1.91	-4.06	11.514	10.842	-1.91	-20.19	4.6	60	38.33	38.47

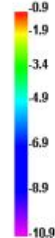
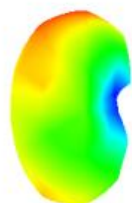
700.000MHz



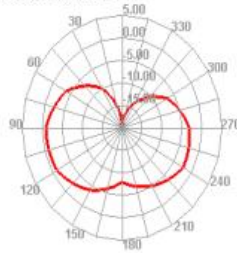
700.000MHz H



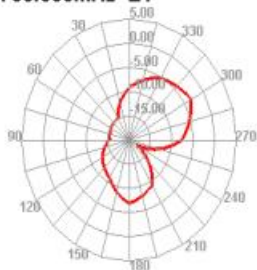
726.000MHz



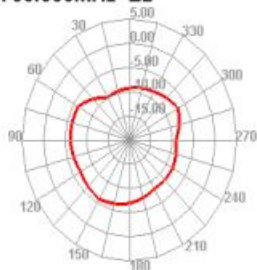
726.000MHz H



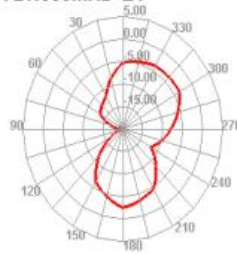
700.000MHz E1



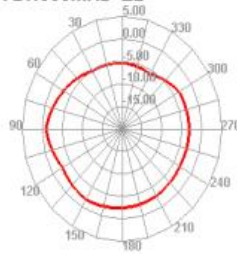
700.000MHz E2



726.000MHz E1



726.000MHz E2





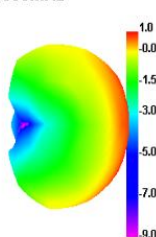
Gain & Efficiency

ANT3

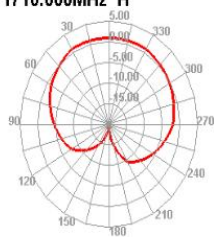
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Passive Test For 高频												
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)	Max (dB)	Min (dB)	irectivit (dBi)	Beamwidth (3dB)	AttH (dB)	AttV (dB)
1710	41.02	-3.87	0.96	-1.19	23.667	17.348	0.96	-23.55	4.83	60	43.6	43.86
1780	31.58	-5.01	-0.26	-2.41	23.116	8.465	-0.26	-22.7	4.75	60	43.44	43.67
1850	53.34	-2.73	0.88	-1.27	35.128	18.21	0.88	-11.56	3.61	120	43.5	44.11
1920	50.56	-2.04	1.7	-0.45	40.15	22.41	1.7	-13.99	3.74	120	43.97	45.75
1990	49.33	-2.27	1.55	-0.6	38.202	21.129	1.55	-16.56	3.81	60	45.17	47.4
2060	48.35	-3.16	0.91	-1.24	31.541	16.806	0.91	-18.89	4.07	60	45.92	46.96
2130	46.62	-3.31	0.89	-1.26	31.098	15.518	0.89	-17.46	4.21	120	45.63	45.99
2200	46.14	-3.36	0.95	-1.2	32.467	13.678	0.95	-16.64	4.31	120	45.52	45.46
2270	37.1	-4.31	0.14	-2.01	27.195	9.903	0.14	-17.87	4.45	120	46.21	46.19
2340	45.85	-3.39	1.37	-0.78	32.566	13.28	1.37	-12.22	4.76	120	47.98	48.06
2410	48.41	-3.15	1.7	-0.45	32.445	15.96	1.7	-13.21	4.85	120	48.04	48.13
2480	45.1	-2.59	1.85	-0.3	36.455	18.648	1.85	-11.56	4.44	90	48.17	47.94
2550	49.89	-3.02	1.02	-1.13	32.81	17.076	1.02	-13.86	4.05	60	48.02	47.61
2620	28.65	-5.43	-0.37	-2.52	16.924	11.724	-0.37	-14.02	5.06	90	49.12	48.88
2690	32.06	-4.94	0.52	-1.63	18.488	13.569	0.52	-17.32	5.46	60	49.97	49.88

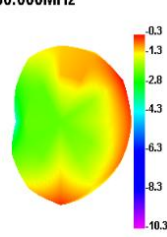
1710.000MHz



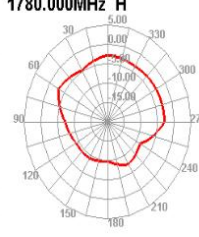
1710.000MHz H



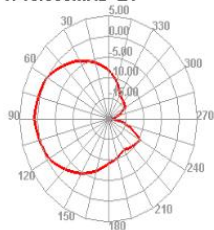
1780.000MHz



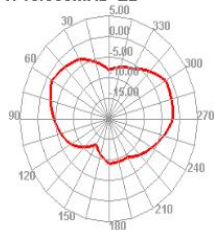
1780.000MHz H



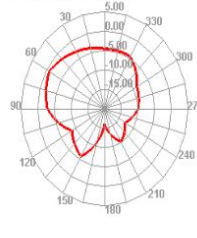
1710.000MHz E1



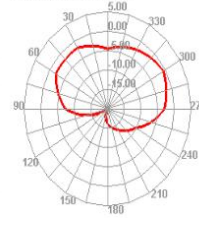
1710.000MHz E2



1780.000MHz E1



1780.000MHz E2

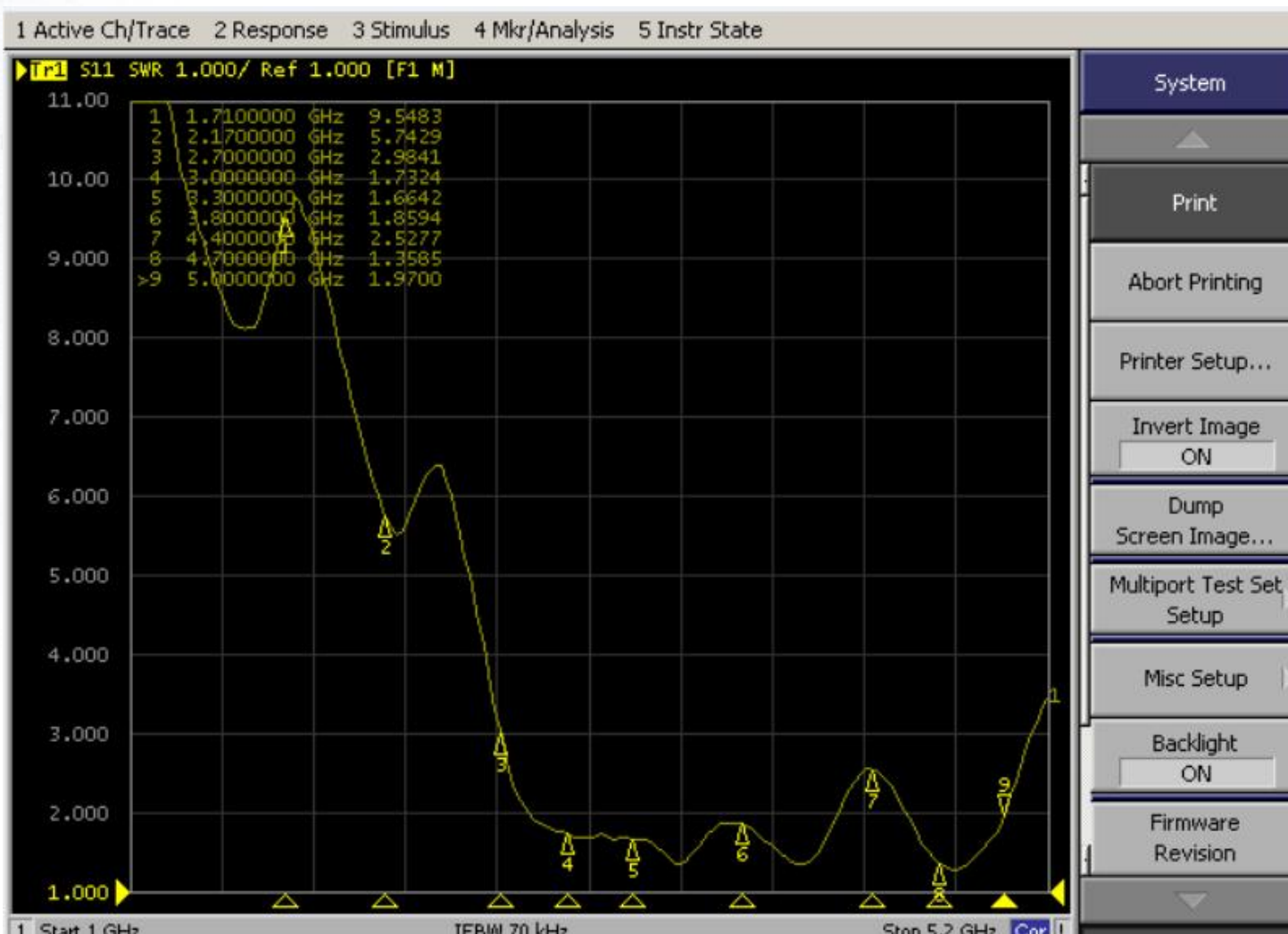




S11 Parameter-SWR

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Gain & Efficiency

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Freq (MHz)	Effi (%)	Gain (dBi)
2400	26.08	-0.93
2410	30.19	-0.34
2420	32.37	-0.07
2430	31.95	-0.11
2440	32.51	0
2450	37.79	0.79
2460	39.08	0.92
2470	42.87	1.33
2480	40.1	0.89
2490	47.42	1.54
2500	46.28	1.29
2510	47.39	1.4
2520	45.14	1.26
2530	48	1.69
2540	51.15	2.09
2550	48.49	1.9
2560	49.34	1.91
2570	46.3	1.47
2580	47.74	1.43
2590	45.84	1.09
2600	46.8	1.11
2610	46.67	1.21
2620	46.59	1.26
2630	49.7	1.49
2640	46.79	1.08
2650	47.2	0.93
2660	49.54	1.01
2670	51.69	1.11
2680	48.58	0.86
2690	45.5	0.55
2700	26.85	-2.22

Freq (MHz)	Effi (%)	Gain (dBd)
3300	38.64	-2.49
3320	34	-1.8
3340	31.96	-2.23
3360	38.74	-1.53
3380	39.6	-1.61
3400	47.65	-1.04
3420	47.3	-1.31
3440	50.16	-1.21
3460	45.07	-1.8
3480	47.33	-1.35
3500	43.65	-1.64
3520	45.94	-1.51
3540	44.88	-1.7
3560	48.89	-1.38
3580	45.79	-1.26
3600	48.75	-0.56
3620	45.72	-0.55
3640	51.18	0.13
3660	47.4	-0.04
3680	50.04	0.12
3700	48.74	-0.19
3720	51.72	-0.24
3740	46.12	-0.99
3760	47.84	-1.2
3780	40.36	-2.04
3800	39.06	-2.31
3820	37.7	-2.74
3840	34	-3.18
3860	31.87	-3.33
3880	33.38	-2.84
3900	33.79	-2.4
3920	34.47	-2.15
3940	33.81	-2.21
3960	32.86	-2.17
3980	35.89	-1.51
4000	29.83	-2.1
4020	31.6	-1.86
4040	26.65	-2.55
4060	27.43	-2.3

4080	26.66	-2.29
4100	28.51	-2.05
4120	26.3	-2.53
4140	29.31	-2.13
4160	29.95	-1.9
4180	31.59	-1.69
4200	34.08	-1.48
4220	37.74	-1.09
4240	36.77	-1.03
4260	36.77	-0.83
4280	37.38	-0.59
4300	38.01	-0.42
4320	40.23	-0.08
4340	38.1	-0.18
4360	38.38	-0.12
4380	40.54	-0.05
4400	37.26	-0.68
4420	33.56	-1.47
4440	35.03	-1.42
4460	29.61	-2.37
4480	28.06	-2.68
4500	30.03	-2.39
4520	27.87	-2.73
4540	26.79	-2.78
4560	25.28	-2.95
4580	26.96	-2.7
4600	25.87	-2.89
4620	31.97	-1.97
4640	27.27	-2.61
4660	30.1	-1.91
4680	30.9	-1.68
4700	39.97	-0.65
4720	26.06	-2.57
4740	29.32	-1.98
4760	29.6	-1.85
4780	34.51	-1.23
4800	33.4	-1.34
4820	35.94	-0.75
4840	34.57	-0.73
4860	38.25	-0.33

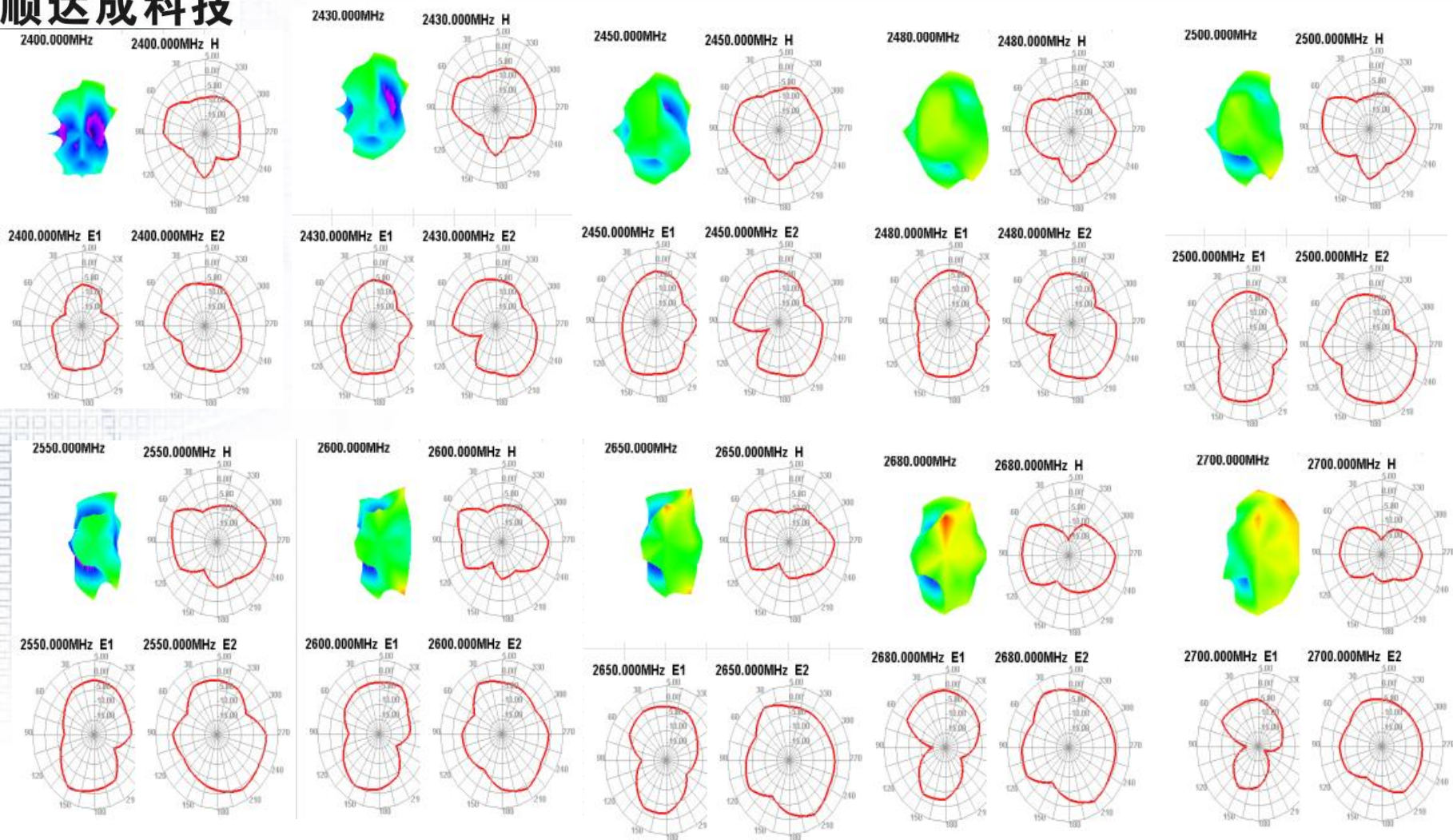
4880	40.4	-0.27
4900	39.85	-0.32
4920	43.32	0.19
4940	37.81	-0.33
4960	45.61	0.45
4980	40.29	-0.22
5000	43.38	-0.02



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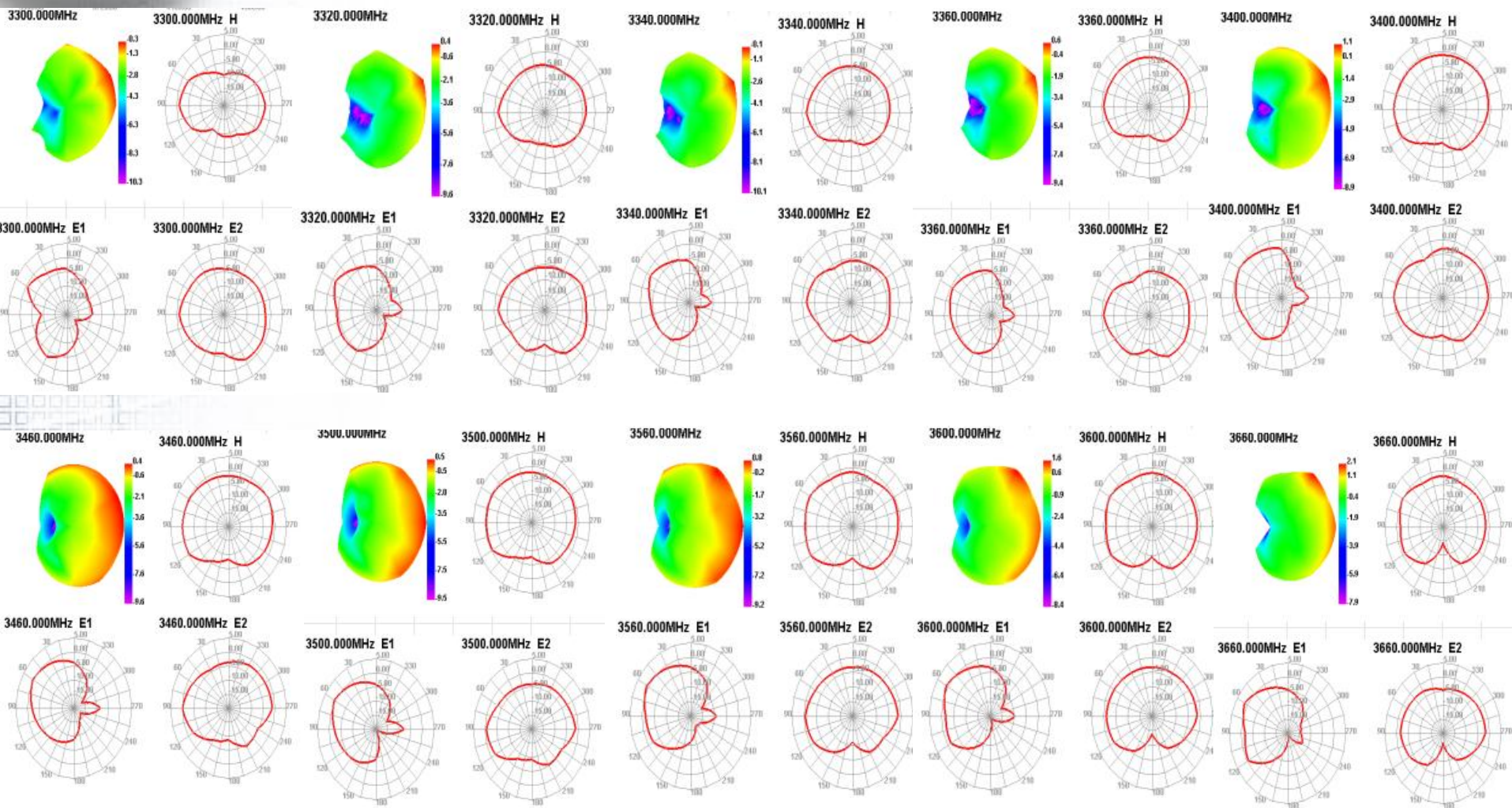




Gain & Efficiency

ANT4

顺达成科技

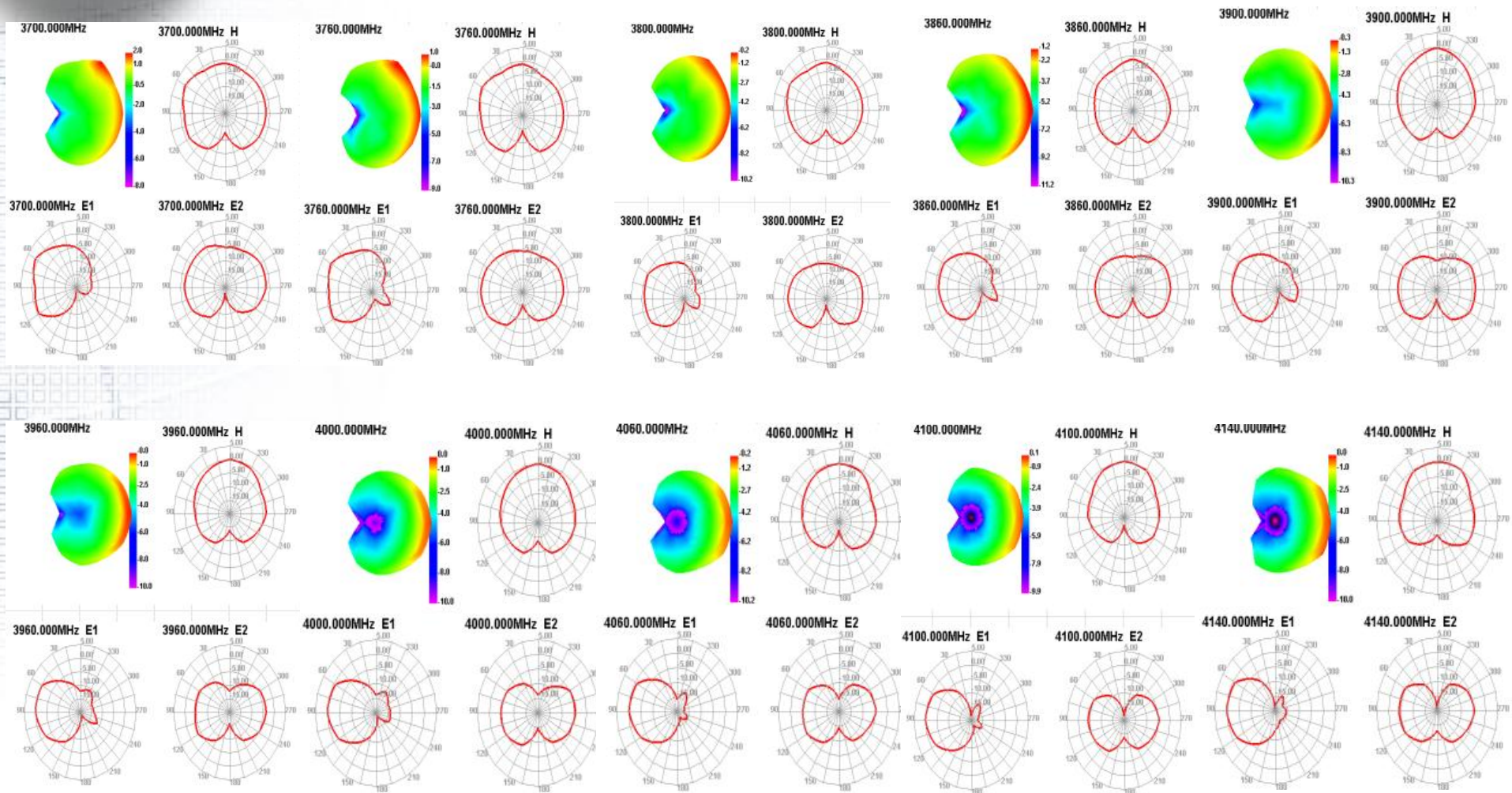




Gain & Efficiency

ANT4

顺达成科技

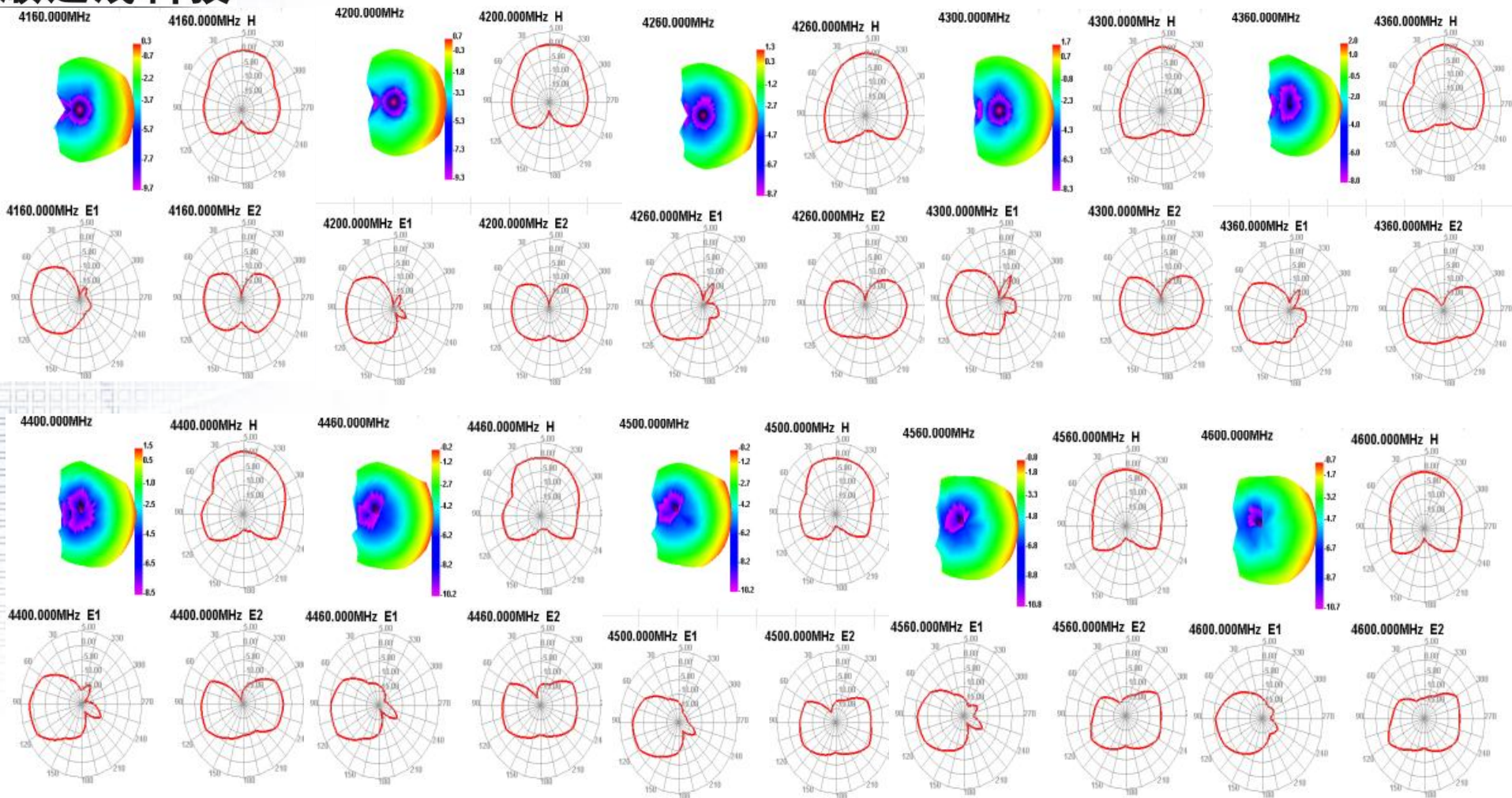




Gain & Efficiency

ANT4

顺达成科技





S11 Parameter-SWR

ANT5

顺达成科技



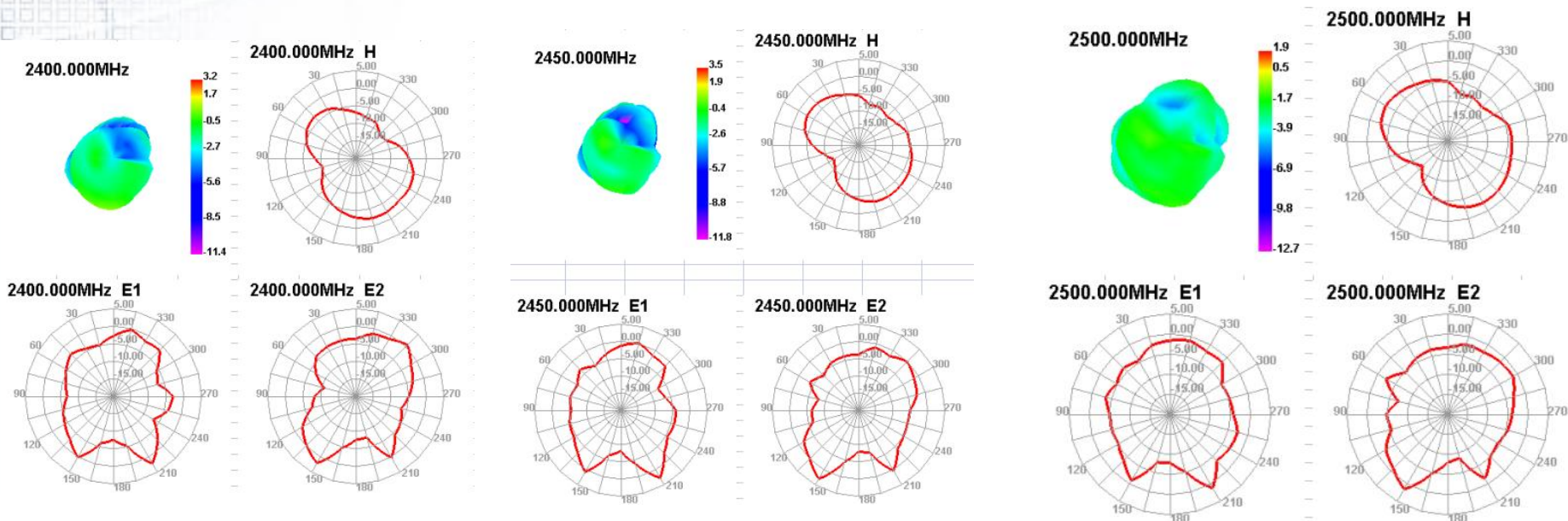


Gain & Efficiency

ANT5

顺达成科技

Passive Test For 2.4G										
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHIS (%)	Max (dB)	Min (dB)	Attenut Hor	Attenut Ver
2400	46.9	-3.29	3.16	1.01	22.318	24.585	3.16	-11.43	49.25	48.85
2450	49.71	-3.04	3.46	1.31	22.77	26.939	3.46	-11.81	49.38	49.16
2500	46.11	-3.36	1.93	-0.22	23.105	23.007	1.93	-12.73	49.46	49.37



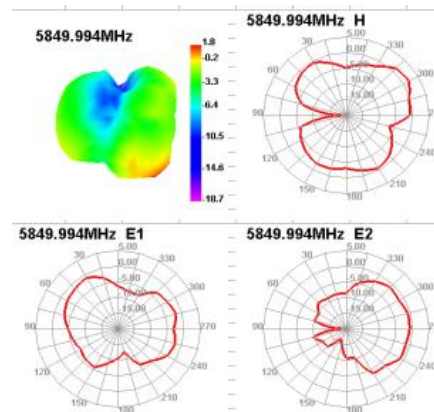
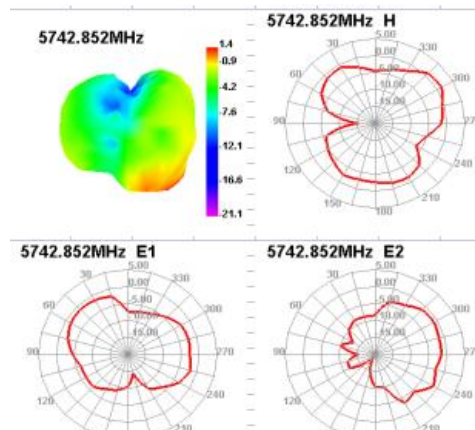
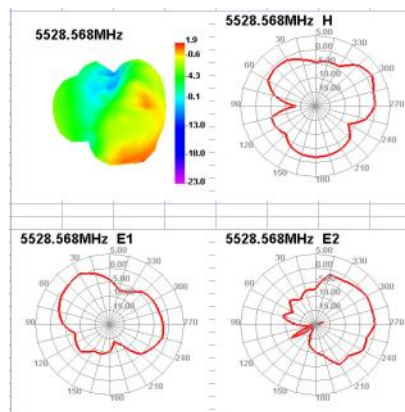
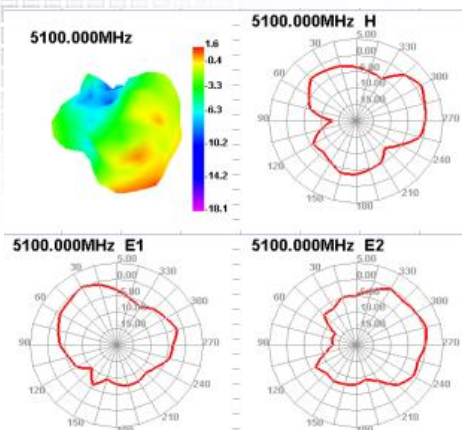


Gain & Efficiency

ANT5

顺达成科技

Passive Test For 5.8G										
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHIS (%)	Max (dB)	Min (dB)	Attenut Hor	Attenut Ver
5100	43.79	-3.59	1.57	-0.58	26.644	17.141	1.57	-18.08	61.56	60.95
5207.14	40.4	-4.04	0.87	-1.28	23.155	16.245	0.87	-20.26	60.8	60.51
5314.28	40.93	-4.33	0.52	-1.63	21.301	15.632	0.52	-17.83	60.49	59.93
5421.43	42.97	-3.67	1.36	-0.79	24.578	18.389	1.36	-21.39	61.44	60.95
5528.57	44.41	-3.53	1.87	-0.28	26.025	18.384	1.87	-22.99	63.27	62.62
5635.71	40.03	-4.31	0.72	-1.43	21.579	15.451	0.72	-21.86	63.73	63.15
5742.85	42.47	-3.72	1.37	-0.78	23.828	18.643	1.37	-21.09	64.06	63.48
5849.99	46.72	-3.3	1.82	-0.33	25.53	21.193	1.82	-18.71	64.26	64





S11 Parameter-SWR

ANT6

顺达成科技





Gain & Efficiency

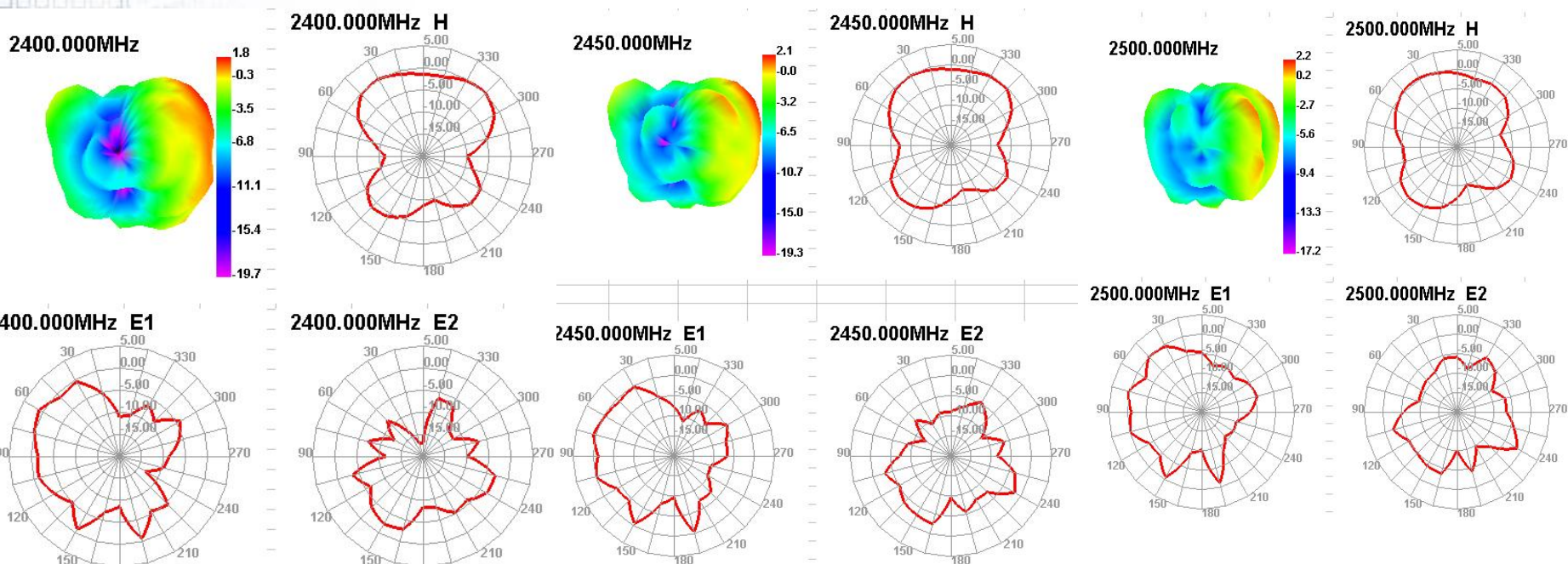
ANT6

顺达成科技

Passive Test For 2.4G										
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)	Max (dB)	Min (dB)	Attenut Hor	Attenut Ver
2400	43.91	-3.57	1.84	-0.31	22.401	21.511	1.84	-19.67	49.25	48.85
2450	44.86	-3.48	2.13	-0.02	22.886	21.973	2.13	-19.33	49.5	49.28
2500	45.49	-3.42	2.16	0.01	23.63	21.862	2.16	-17.15	49.61	49.52

2400.00MHz - 2500.00MHz Gain

5.00





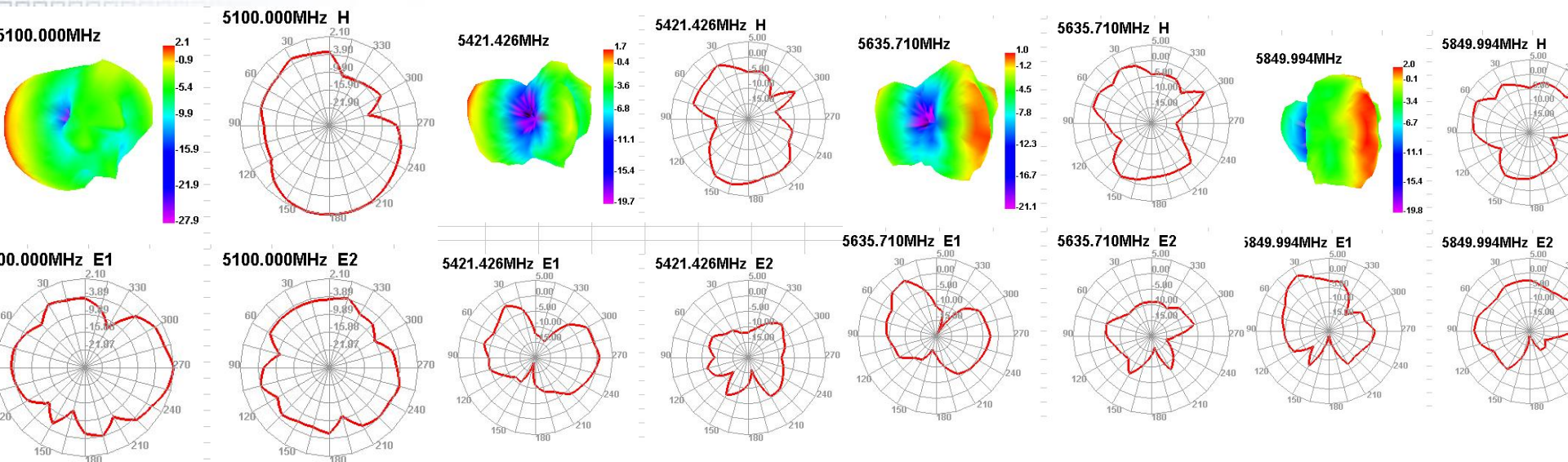
Gain & Efficiency

ANT6

顺达成科技

Passive Test For 5.8G										
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)	Max (dB)	Min (dB)	Attenut Hor	Attenut Ver
5100	39.74	-4.01	2.1	-0.05	19.309	20.435	2.1	-27.87	64.41	63.8
5207.14	32.4	-4.9	0.91	-1.24	15.743	16.652	0.91	-24.89	61.01	60.71
5314.28	35.76	-4.47	1.73	-0.42	17.926	17.834	1.73	-18.84	60.15	59.59
5421.43	37.05	-4.31	1.73	-0.42	19.307	17.743	1.73	-19.66	60.88	60.38
5528.57	44.37	-3.53	2.03	-0.12	24.066	20.305	2.03	-27.5	63.75	63.1
5635.71	34.14	-4.67	1.05	-1.1	19.484	14.656	1.05	-21.15	63	62.42
5742.85	42.37	-3.73	2.27	0.12	26.477	15.897	2.27	-21.05	63.75	63.17
5849.99	41.95	-3.77	2.04	-0.11	27.682	14.265	2.04	-19.81	64.46	64.2

5100.00MHz - 5850.00MHz Gain





GSM/WCDMA Free Space 2D Active data

顺达成科技

BAND		GSM850			GSM900		
3D	Channel	128	190	251	1	62	124
	TRP (dbm)	25.6	25.49	25.06	25.35	25.18	25.33
	TIS (dbm)			-100.42			-97.68
BAND		DCS1800			PCS1900		
3D	Channel	512	698	885	512	661	810
	TRP (dbm)	23.69	23.73	23.69	23.3	23.79	23.46
	TIS (dbm)			-102.16			-102.41
BAND		WCDMA B1			WCDMA B2		
3D	Channel	10562	10700	1088	9662	9800	9938
	TRP (dbm)	16.65	16.84	16.44	16.63	16.06	15.98
	TIS (dbm)			-101.6			-101.52
BAND		WCDMA B5			WCDMA B8		
3D	Channel	4357	4408	4458	2937	3012	3088
	TRP (dbm)	15.39	15.65	15.22	14.38	14.2	14.26
	TIS (dbm)			-98.71			-95.7



LTE Free Space 2D Active data

顺达成科技

BAND		FDD-LTE B1			FDD-LTE B2		
3D	Channel	18050	18300	18550	18650	18900	1990150
	TRP (dbm)	17.22	17.63	18.75	17.51	17.23	17.4
	TIS (dbm)			-90.25			-89.7
BAND		FDD-LTE B3			FDD-LTE B4		
3D	Channel	19250	19575	19900	20000	20175	20350
	TRP (dbm)	18.45	18.62	18.76	17.06	17.07	17.16
	TIS (dbm)			-91.78			-90.65
BAND		FDD-LTE B5			FDD-LTE B7		
3D	Channel	20450	20525	20600	20800	21100	21400
	TRP (dbm)	15.7	16.36	16.29	17.92	17.45	16.21
	TIS (dbm)			-89.17			-88.56
BAND		FDD-LTE B8			FDD-LTE B12		
3D	Channel	21500	21625	21750	23060	23095	23130
	TRP (dbm)	15.43	14.28	14.49	15.32	15.48	15.75
	TIS (dbm)			-85.3			-84.76
BAND		FDD-LTE B20					
3D	Channel	27310	27435	27610			
	TRP (dbm)	17.22	16.34	16.08			
	TIS (dbm)			-88.71			



LTE Free Space 2D Active data

BAND		FDD-LTE B28			LTE-TDD B34		
3D	Channel	27310	27435	27610	38750	39150	39500
	TRP (dbm)	14.63	14.6	14.75	16.85	16.31	16.5
	TIS (dbm)			-85.26			-85.82
BAND		LTE-TDD B38			LTE-TDD B39		
3D	Channel	37850	38000	38150	38350	38450	38550
	TRP (dbm)	17.09	17.9	17.58	16.83	16.25	16.49
	TIS (dbm)			-86.5			-85.79
BAND		LTE-TDD B40			LTE-TDD B41		
3D	Channel	38750	39150	39500	39750	40620	41490
	TRP (dbm)	16.2	16.31	16.82		16.5	
	TIS (dbm)			-85.7		-86.8	



5G Free Space 2D Active data

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BAND		NR-N1			NR-N5		
3D	Channel	385000	390000	356000	165800	167300	168800
	TRP (dbm)	19.86	18.04	19.3	17.29	17.31	17.86
	TIS (dbm)			-85.12			-81.32
BAND		NR-N8			NR-N28		
3D	Channel	177000	179500	182000	141600	145100	148600
	TRP (dbm)	15.03	14.19	15	14.59	14.81	14.7
	TIS (dbm)			-80.16			-80.3
BAND		NR-N41			NR-N78		
3D	Channel	500202	518598	537000	623334	636666	650000
	TRP (dbm)	18.65	18.49	18.65	19.22	18.87	18.9
	TIS (dbm)			-85.63			-83.19



WIFI OTA Data

2.4G	802.11b, (2.4G) 11M		
Channel	CH1	CH6	CH11
TRP	12.16	12.44	12.97
TIS	-78.49	-78.28	-78.13
5.8G	802.11a, (5.8G) 54M		
Channel	CH36	CH60	CH161
TRP	9.7	10.33	10.15
TIS	-69.85	-69.76	-69.57



Shenzhen Shundacheng Technology Co., Ltd.

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Thank you!

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