



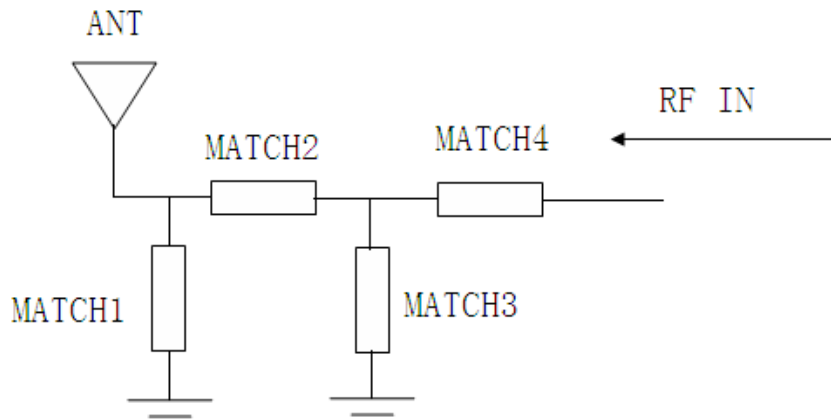
深圳市三好无线通信有限公司

## 天线性能测试报告

### Antenna performance test report

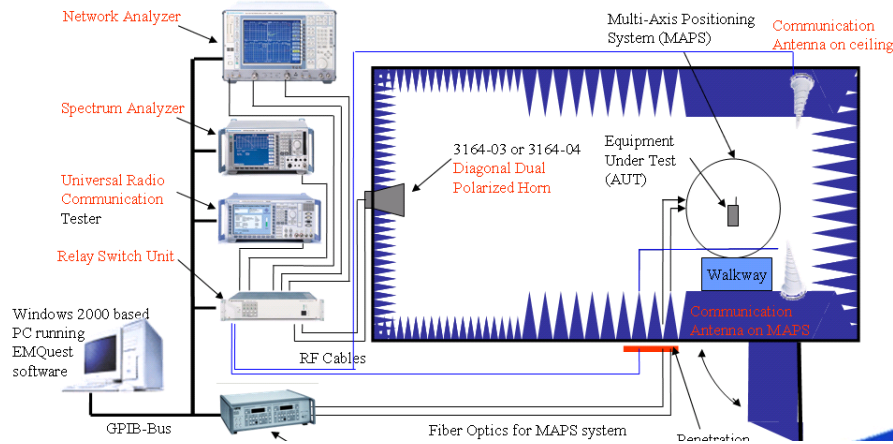
client's name	云基
project name	P03
RF engineer	官炳坤
test date	2021.09.02

#### 1. Antenna matching circuit:



MATCH1	MATCH2	MATCH3	MATCH4
	0Ω		0Ω

### 1、 Antenna test equipment:



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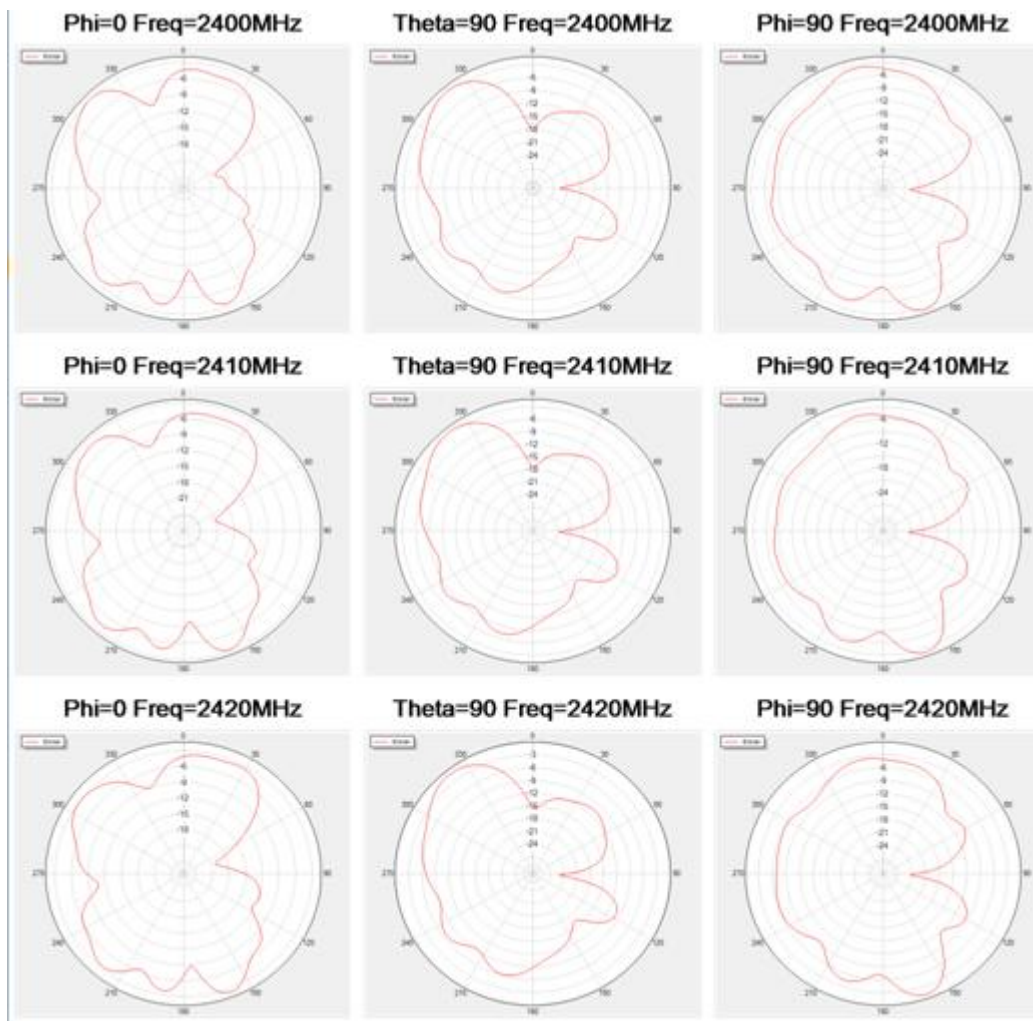
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**The performance test report is as follows:**

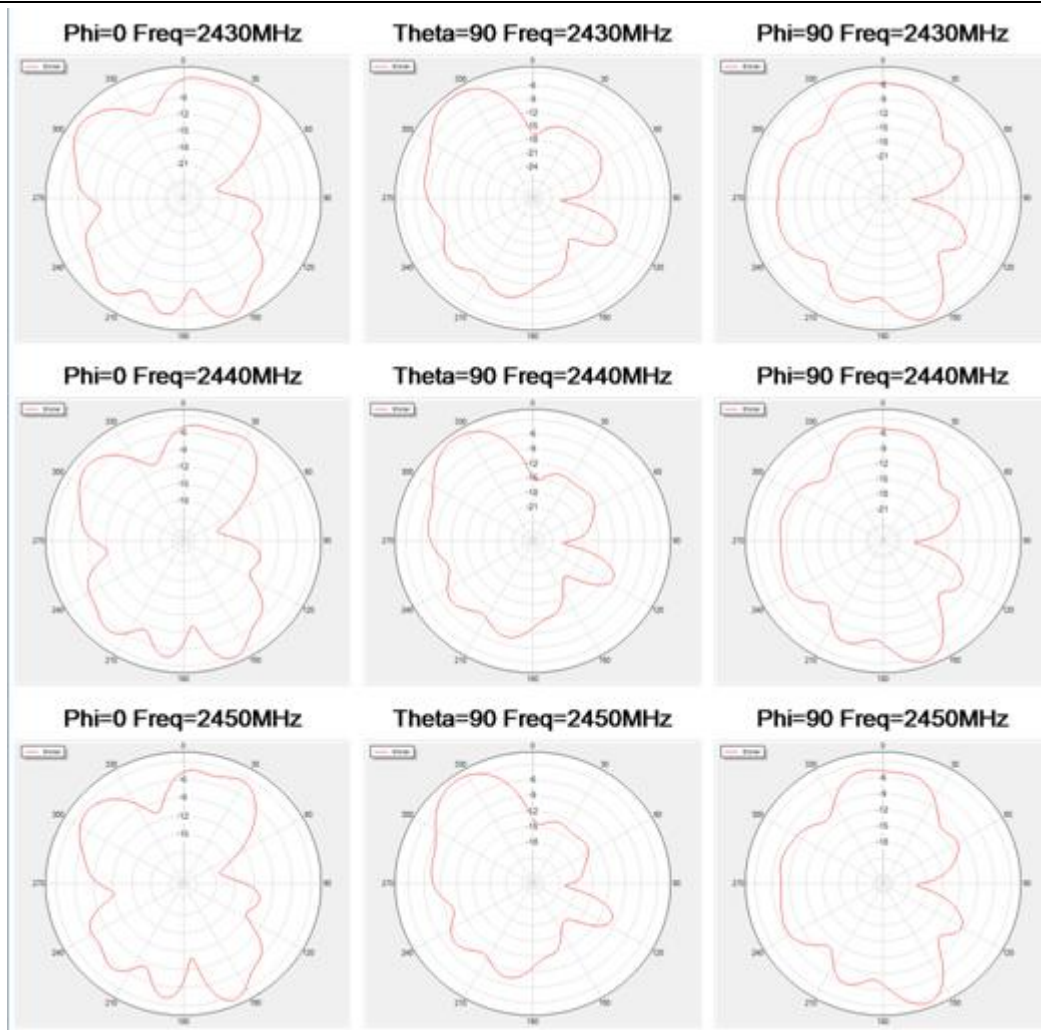
频段	GPS	WIFI2.4	BT	WIFI 5G		
增益	0.97	0.84	0.94	1.02		

Gain&Efficiency				
增益和效率				
frequency	gain	mingain	efficiency	efficiency
频率	增益	最小增益	效率(dBi)	效率(%)
(MHz)	(dBi)	(dBi)		
2400	0.53	-25.99	-4.53	35.20
2410	0.62	-23.61	-3.82	41.49
2420	0.68	-21.67	-3.55	44.17
2430	0.76	-20.53	-4.12	38.73
2440	0.84	-22.03	-3.55	44.13
2450	0.82	-22.31	-3.61	43.57
2460	0.63	-25.15	-3.78	41.84
2470	0.71	-29.64	-3.5	44.65
2480	0.94	-32.07	-3.5	44.65
2490	1.41	-27.68	-3.99	39.88
2500	1.93	-23.97	-3.55	44.15

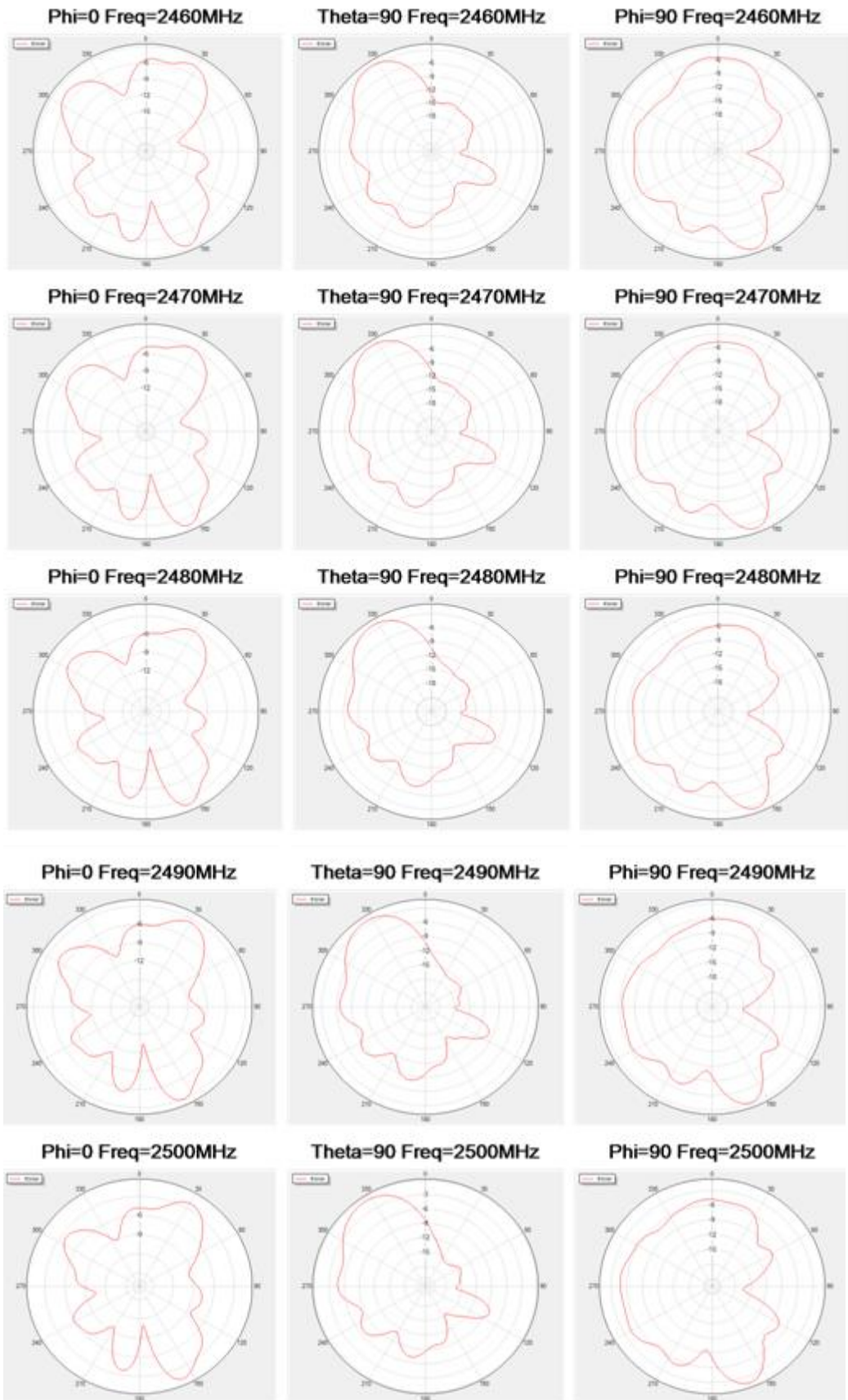
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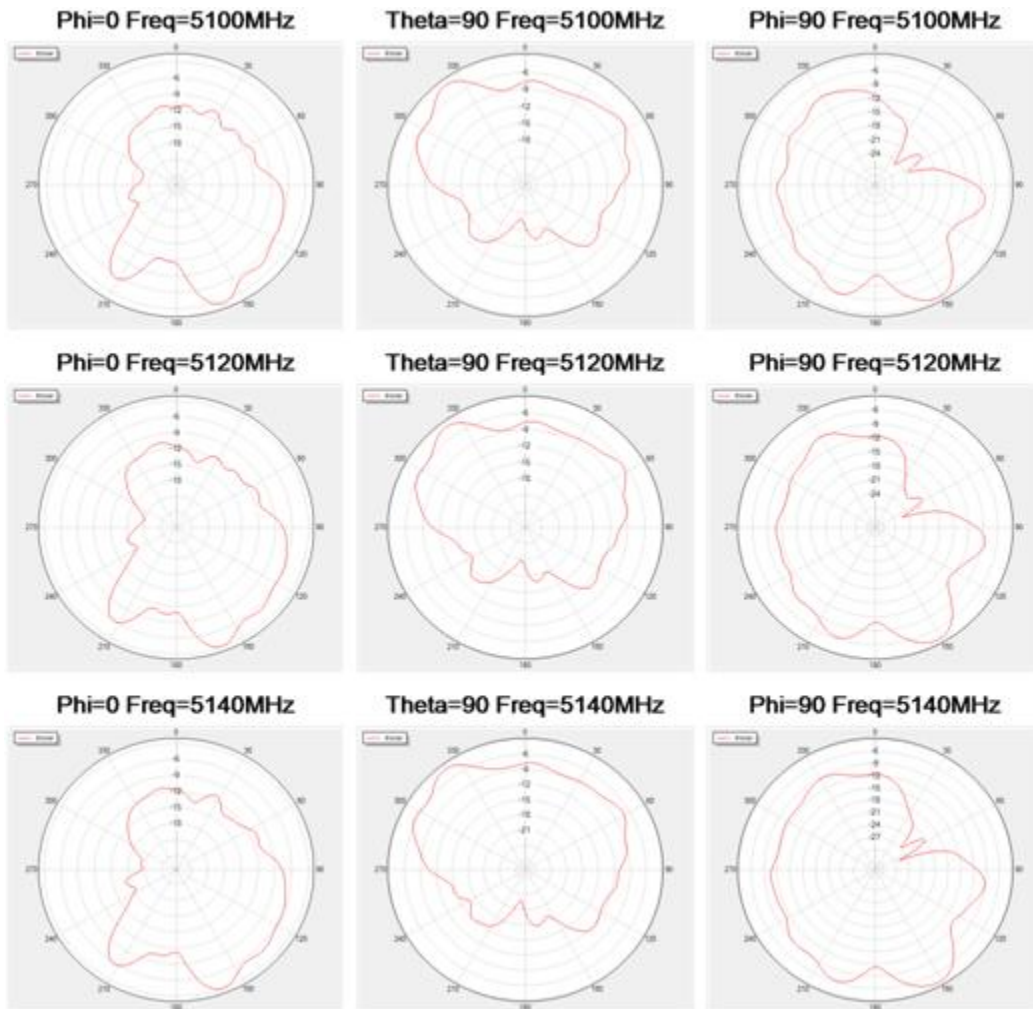
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Gain&Efficiency&PhaseCenter					
增益、效率和相位中心					
frequency	gain	gain	directivity	efficiency	efficiency
频率 (MHz)	增益 (dBi)	增益对应角度 (°)	方向性系数 (dB)	效率(dB)	效率(%)
5100	-2.25	$\psi=24,\theta=158$	6.43	-8.69	13.53
5120	-2.66	$\psi=31,\theta=158$	6.36	-9.01	12.55
5140	-2.94	$\psi=29,\theta=158$	6	-8.93	12.79
5160	-2.49	$\psi=357,\theta=159$	6.34	-8.83	13.08
5180	-3.19	$\psi=22,\theta=159$	6.42	-9.61	10.94
5200	-3.62	$\psi=24,\theta=159$	6.47	-10.1	9.78
5220	-2.41	$\psi=351,\theta=159$	6.87	-9.28	11.8
5240	-2.84	$\psi=9,\theta=160$	6.44	-9.28	11.8
5260	-3.57	$\psi=25,\theta=159$	6.28	-9.85	10.35
5280	-3.91	$\psi=329,\theta=151$	6.48	-10.4	9.13
5300	-2.71	$\psi=23,\theta=159$	6.47	-9.19	12.06
5320	-1.92	$\psi=31,\theta=159$	7.03	-8.95	12.73
5340	-2.58	$\psi=33,\theta=159$	6.77	-9.35	11.62
5360	-3.43	$\psi=334,\theta=155$	6.43	-9.85	10.35
5380	-2.13	$\psi=331,\theta=154$	6.62	-8.75	13.34
5400	-1.99	$\psi=332,\theta=155$	6.43	-8.42	14.4
5420	-3.04	$\psi=331,\theta=154$	6.09	-9.13	12.23
5440	-2.72	$\psi=32,\theta=158$	6.38	-9.1	12.31
5460	-2.7	$\psi=335,\theta=156$	6.28	-8.98	12.63
5480	-1.87	$\psi=337,\theta=157$	6.39	-8.25	14.95
5500	-2.22	$\psi=331,\theta=155$	6.28	-8.49	14.15
5520	-2.21	$\psi=333,\theta=155$	6.16	-8.36	14.57
5540	-2.72	$\psi=337,\theta=157$	5.85	-8.56	13.92
5560	-1.71	$\psi=338,\theta=157$	6.16	-7.87	16.33
5580	-1.99	$\psi=338,\theta=157$	6.14	-8.12	15.4
5600	-2.12	$\psi=339,\theta=157$	6.34	-8.46	14.26
5620	-2.32	$\psi=338,\theta=157$	6.44	-8.76	13.29



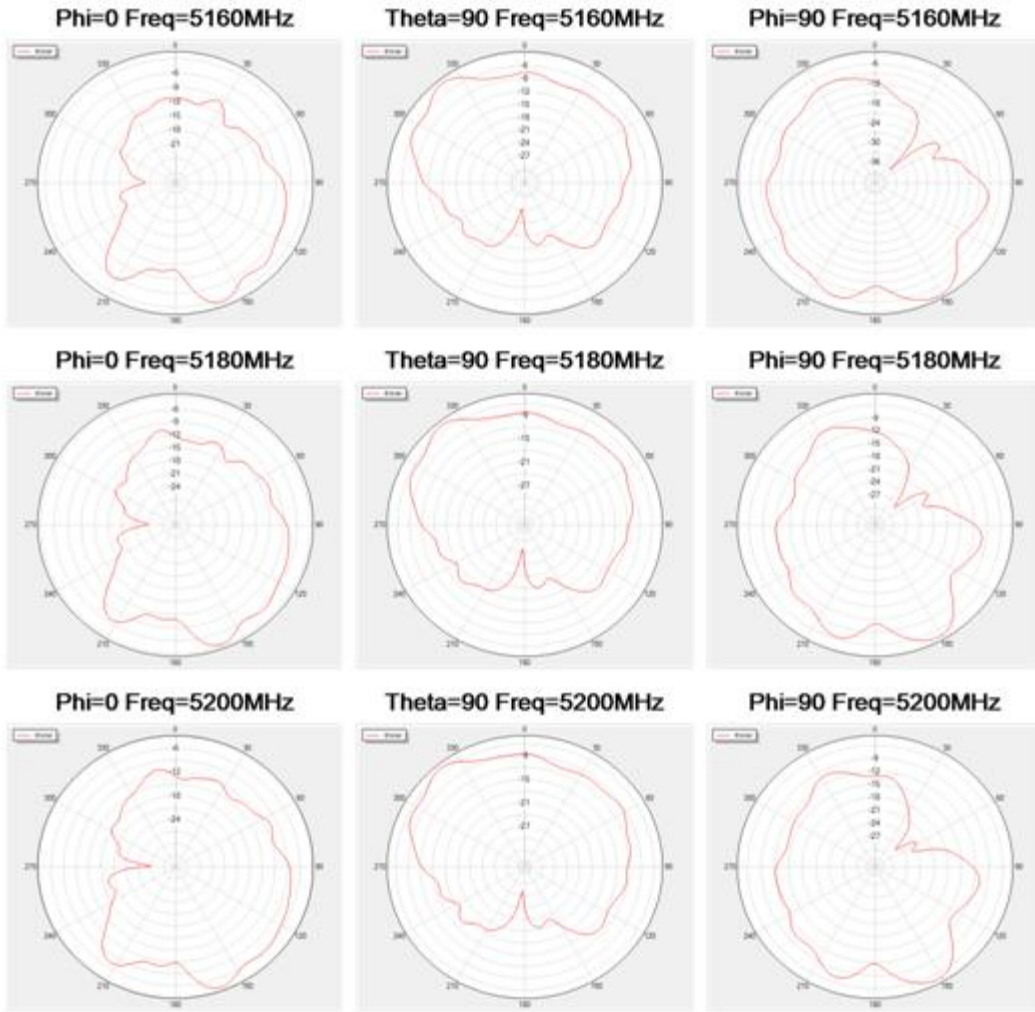
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5640	-2.13	$\psi=340,\theta=158$	5.91	-8.03	15.73
5660	-1.52	$\psi=337,\theta=156$	6.08	-7.61	17.35
5680	-1.44	$\psi=340,\theta=157$	6.32	-7.76	16.76
5700	-1.76	$\psi=343,\theta=159$	6.09	-7.86	16.38
5720	-0.82	$\psi=342,\theta=159$	6.1	-6.92	20.32
5740	1.02	$\psi=338,\theta=158$	6.3	-6.69	21.45
5760	-1	$\psi=337,\theta=158$	6.28	-7.27	18.74
5780	-0.94	$\psi=340,\theta=159$	6.28	-7.22	18.97
5800	-1.08	$\psi=344,\theta=160$	5.8	-6.88	20.5



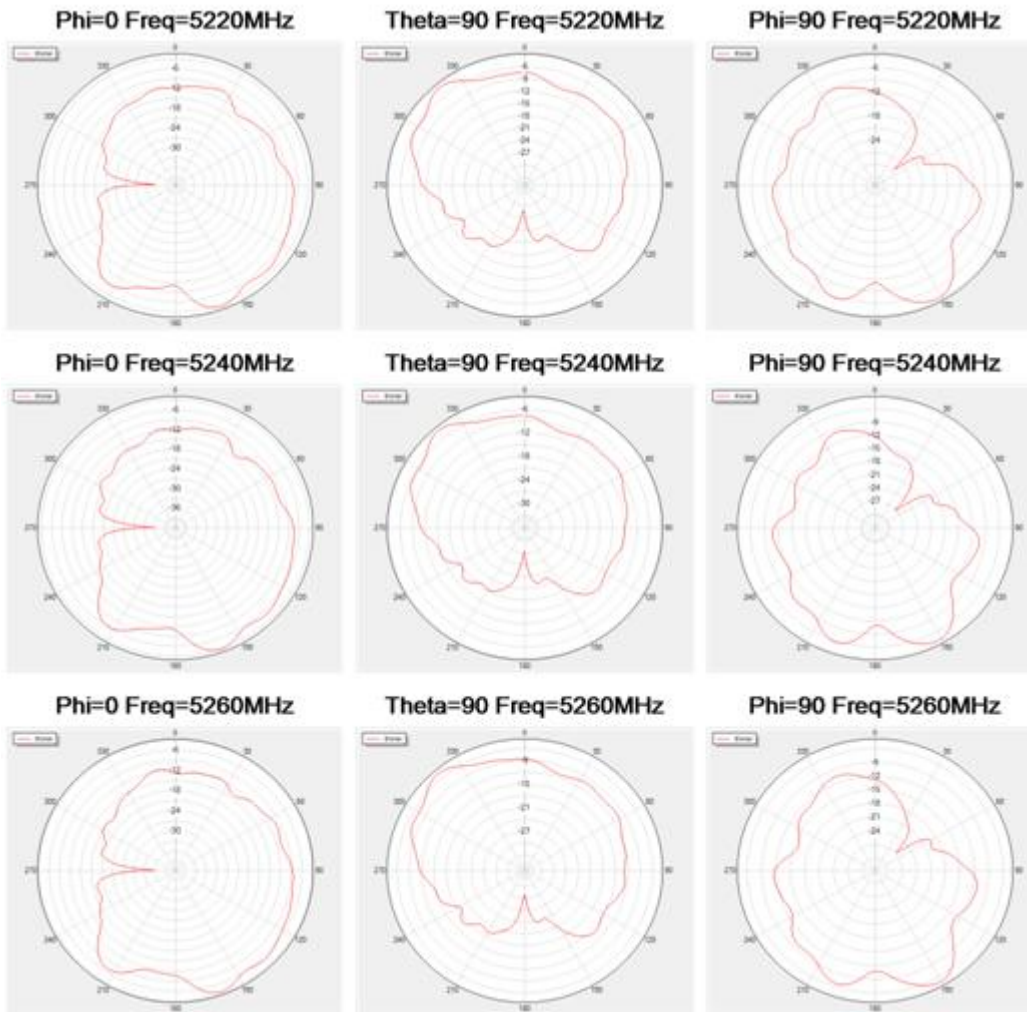


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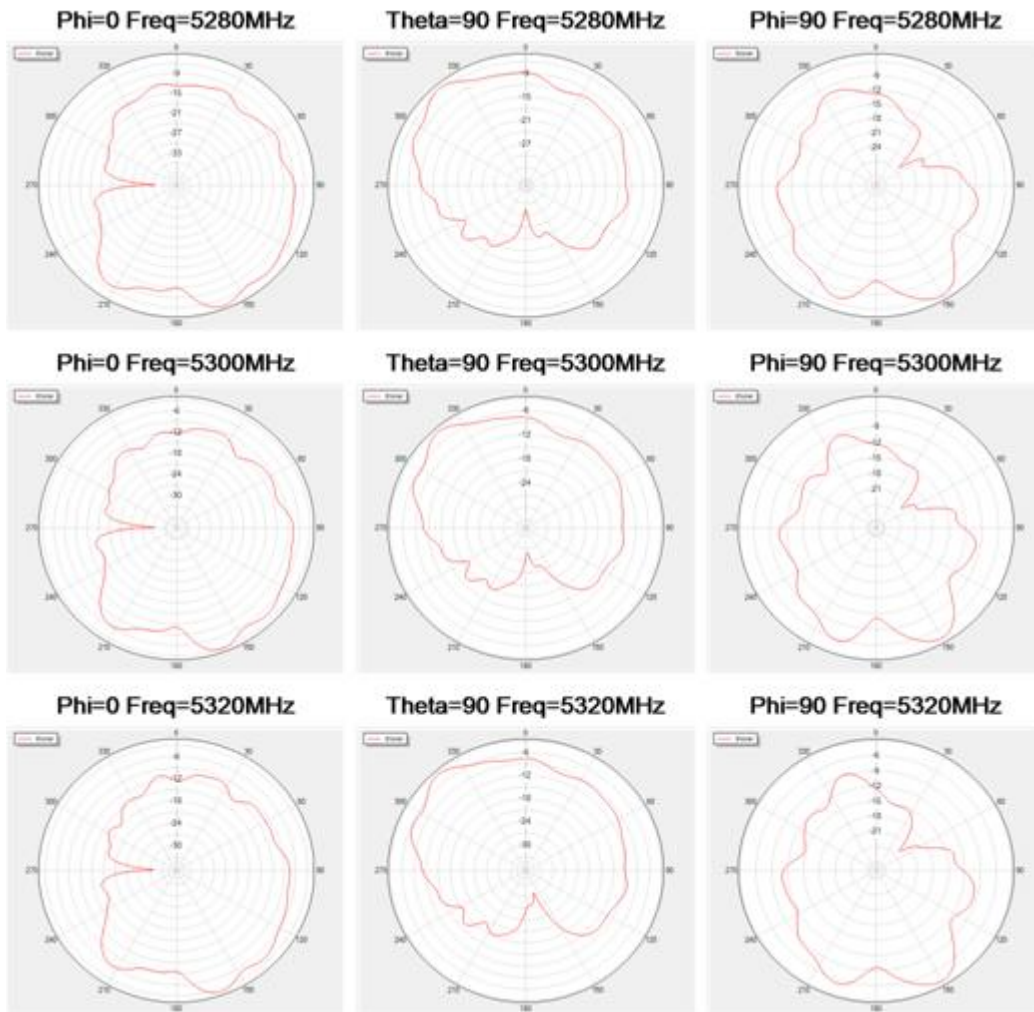


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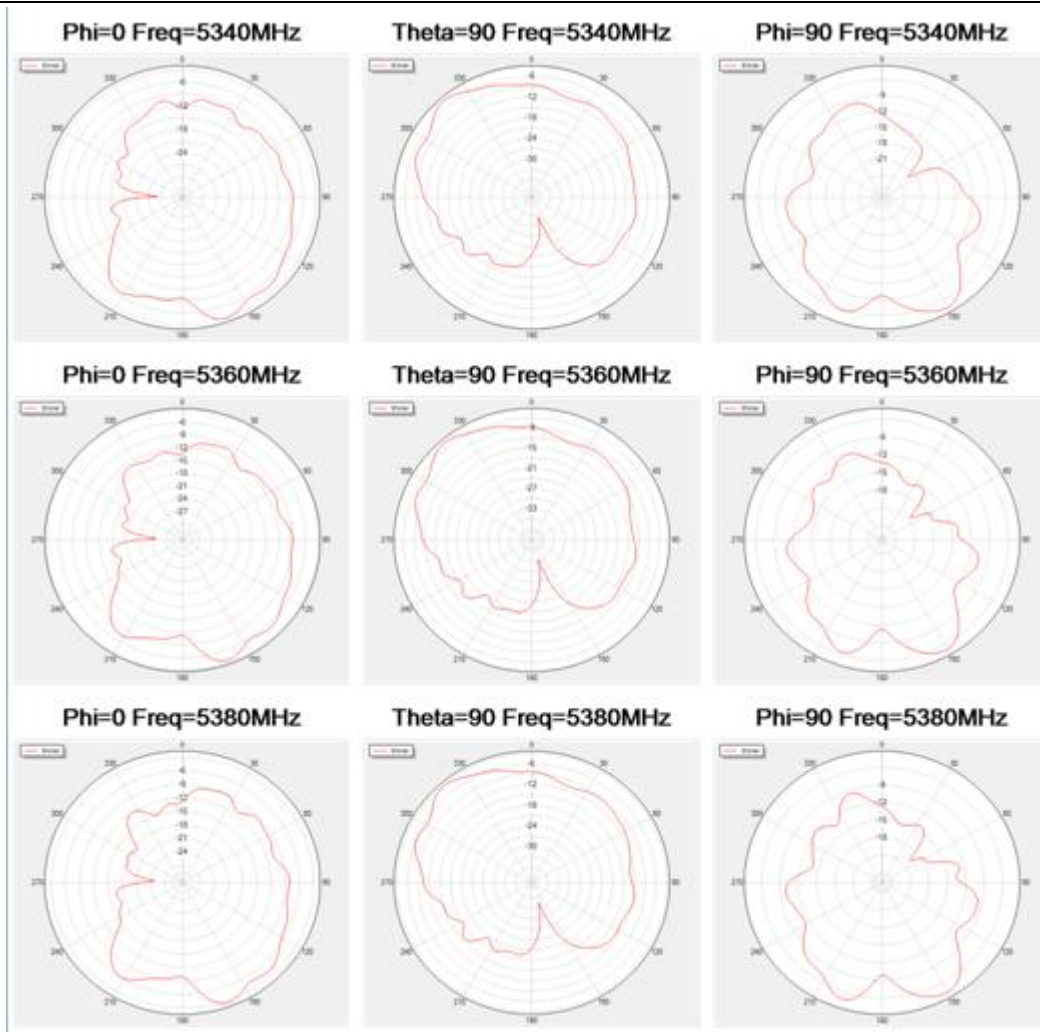
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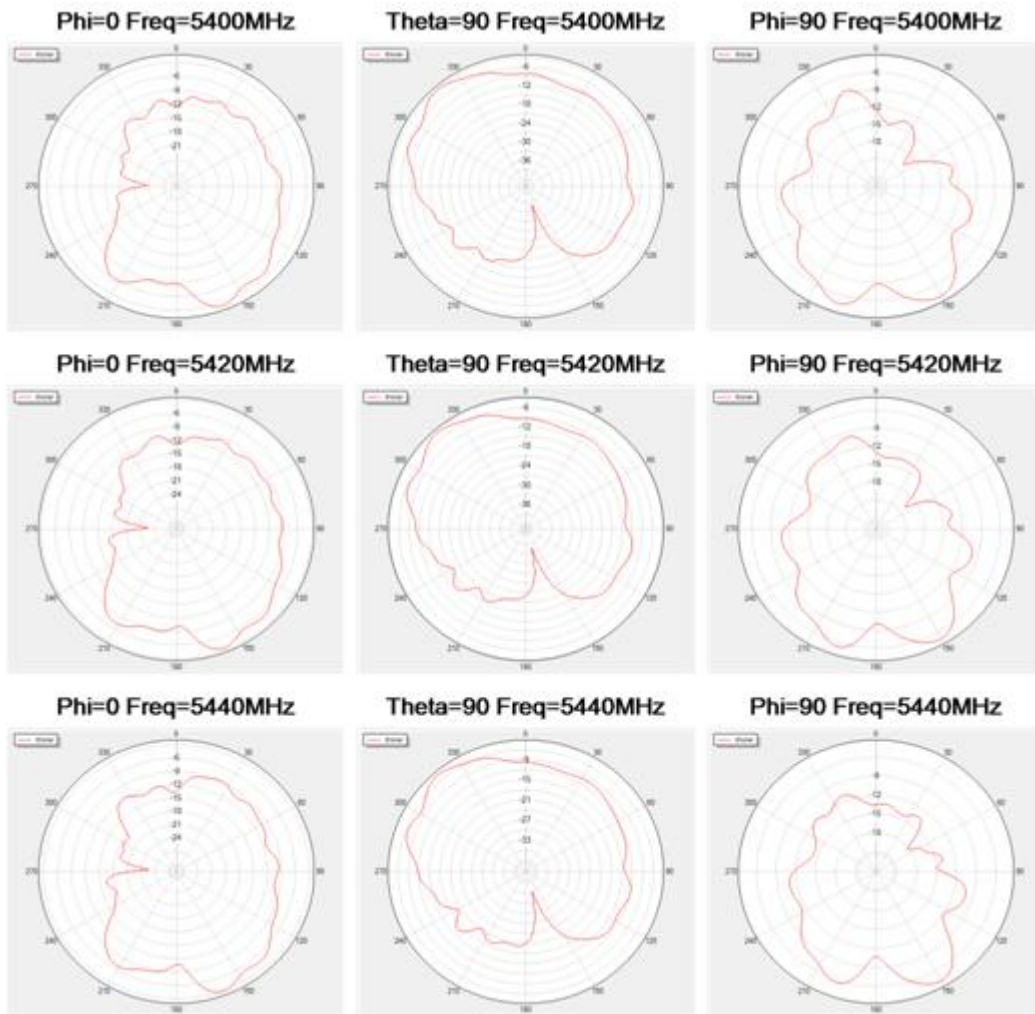
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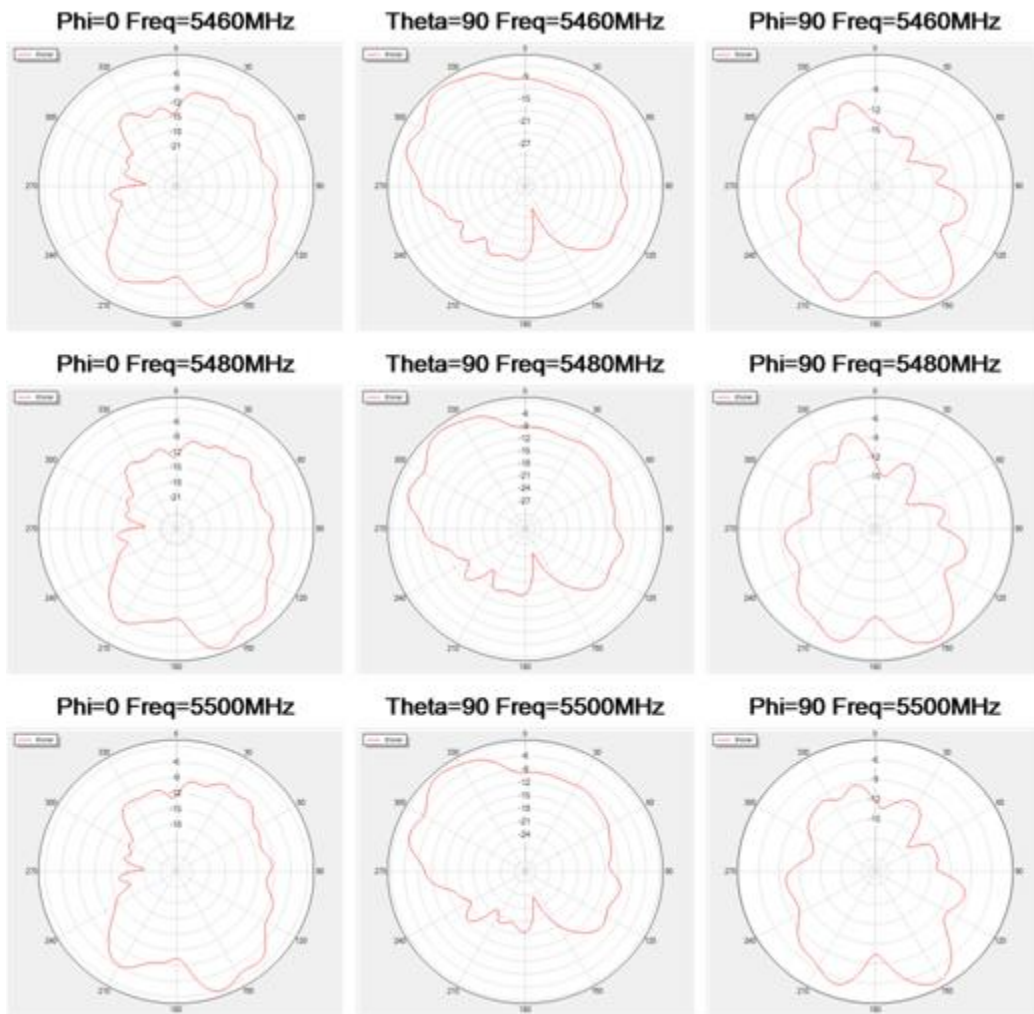
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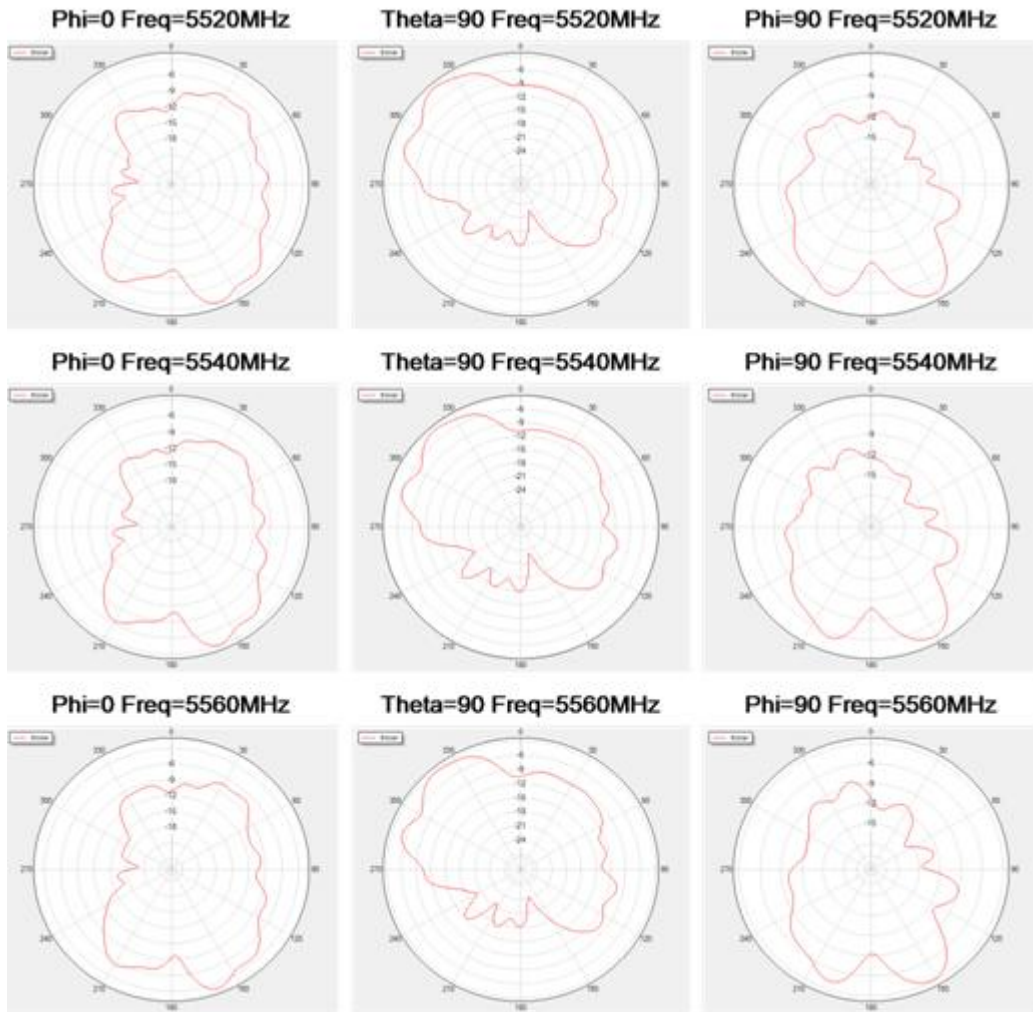
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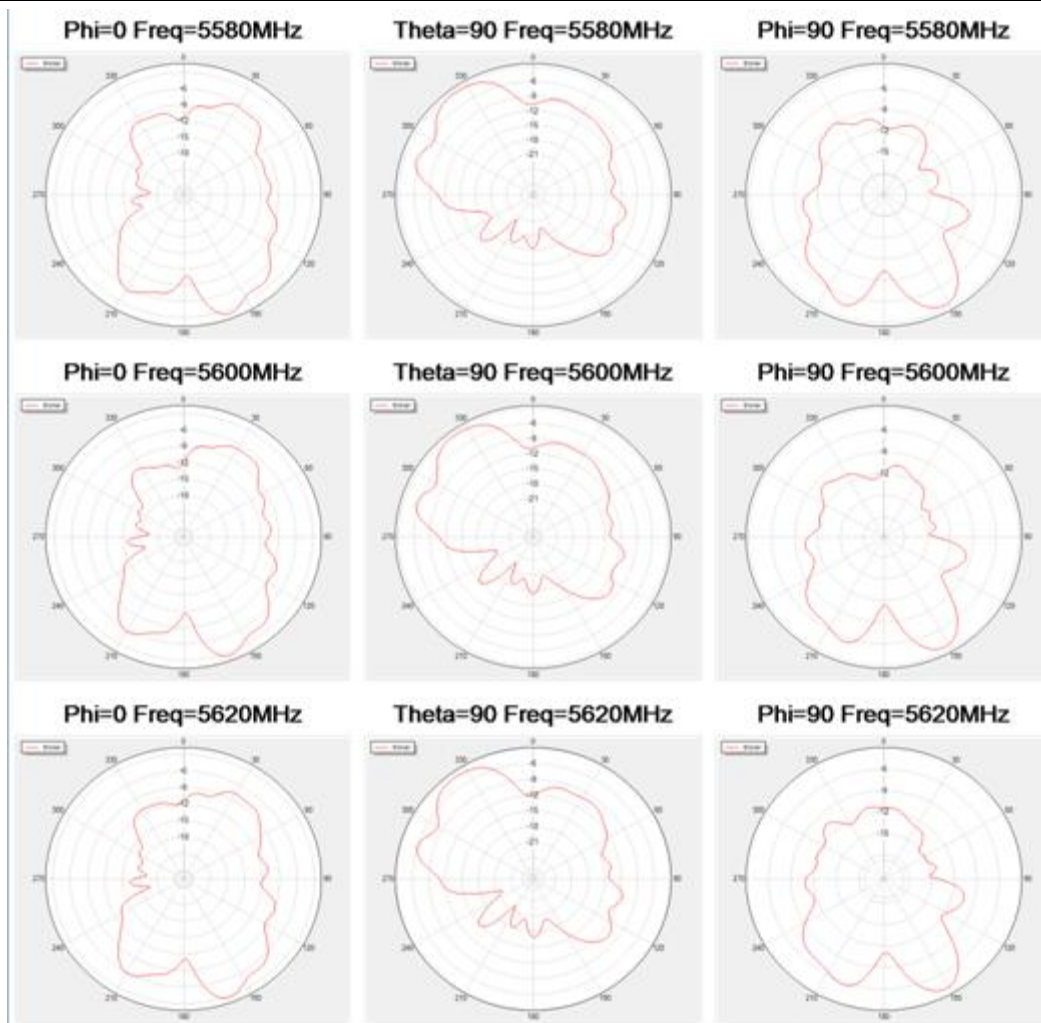
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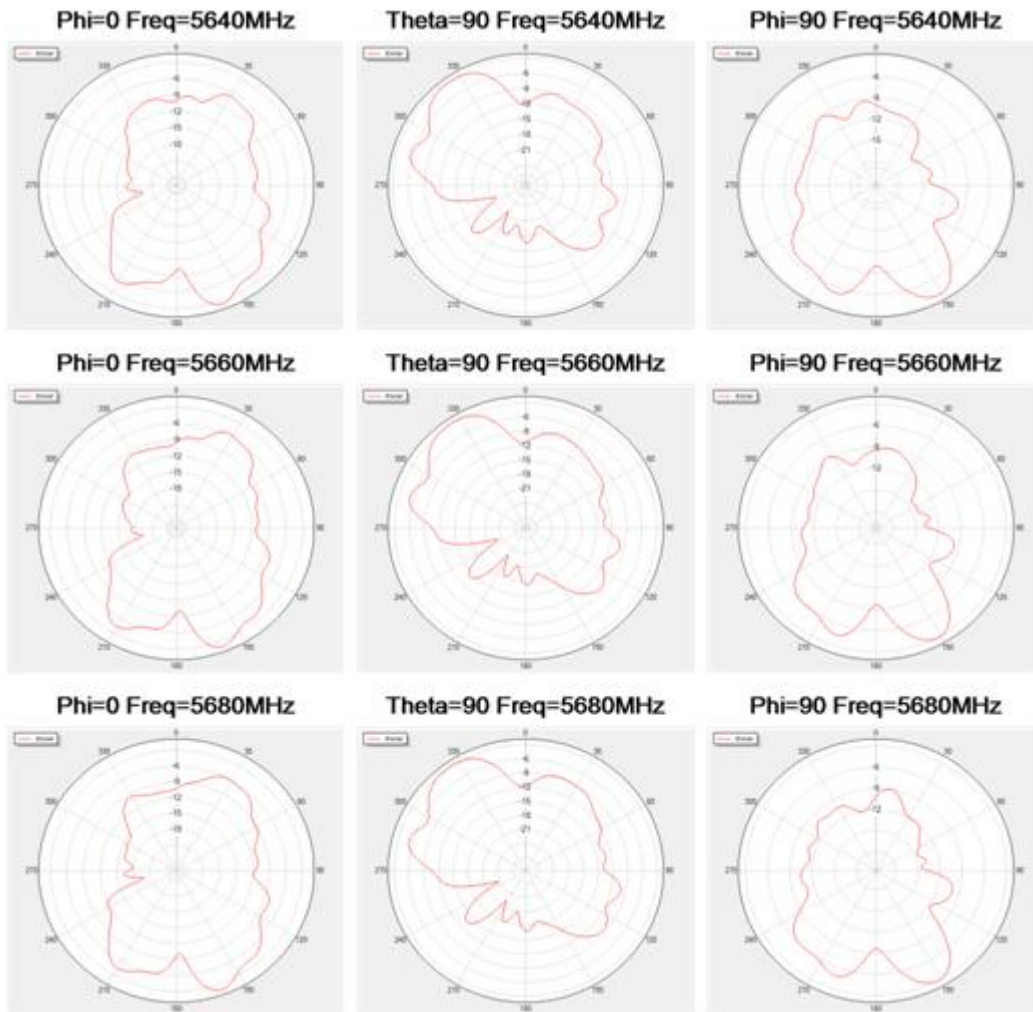


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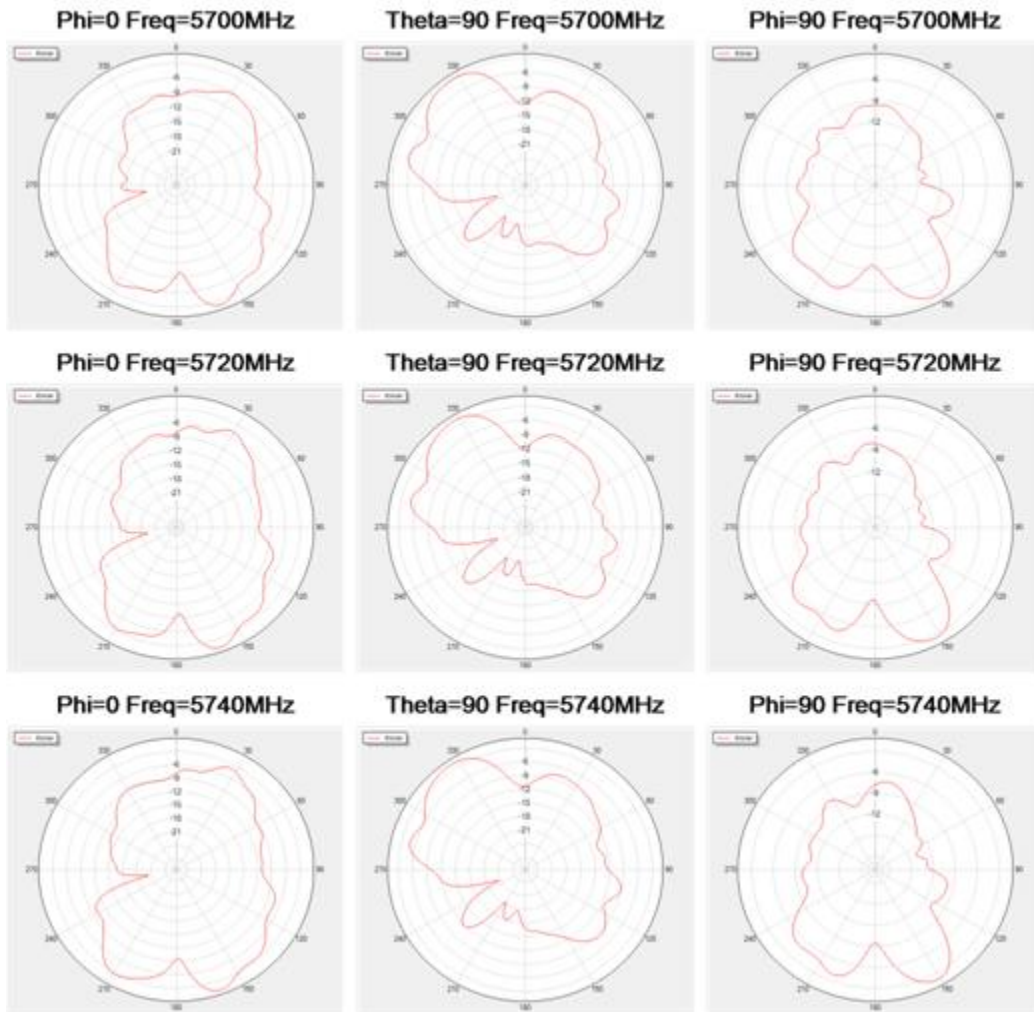


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