

规格书

Specification

客户名称:
CUSTOMER:

客户料号:
CUSTOMER P/N:

客户品名:
DESCRIPTION:

捷雷料号:
JL P/N: C168-JL-7267

捷雷品名:
PART NO: NDM-2. 4G&5G&6G-WIFI7 (国际版) 天线

版 本:
Revision: V1.3

核准	审核	编制
Frank	Eason	Eden
2023. 05. 09	2023. 05. 09	2023. 05. 09

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目录

1. Product Performance	2
2. Environmental Performance Test	3
3. Mechanical Dimension Drawing	5
4. UL	6
5. Antenna Performance	10

版本描述

日期	批准	版本	描述
2023-06-16		V1.3	增加方向图
2023-05-09		V1.2	更新出线长度和底板
2023-04-11		V1.1	更新出线长度和底板
2022-03-13		V1.0	初版

1. Product Performance

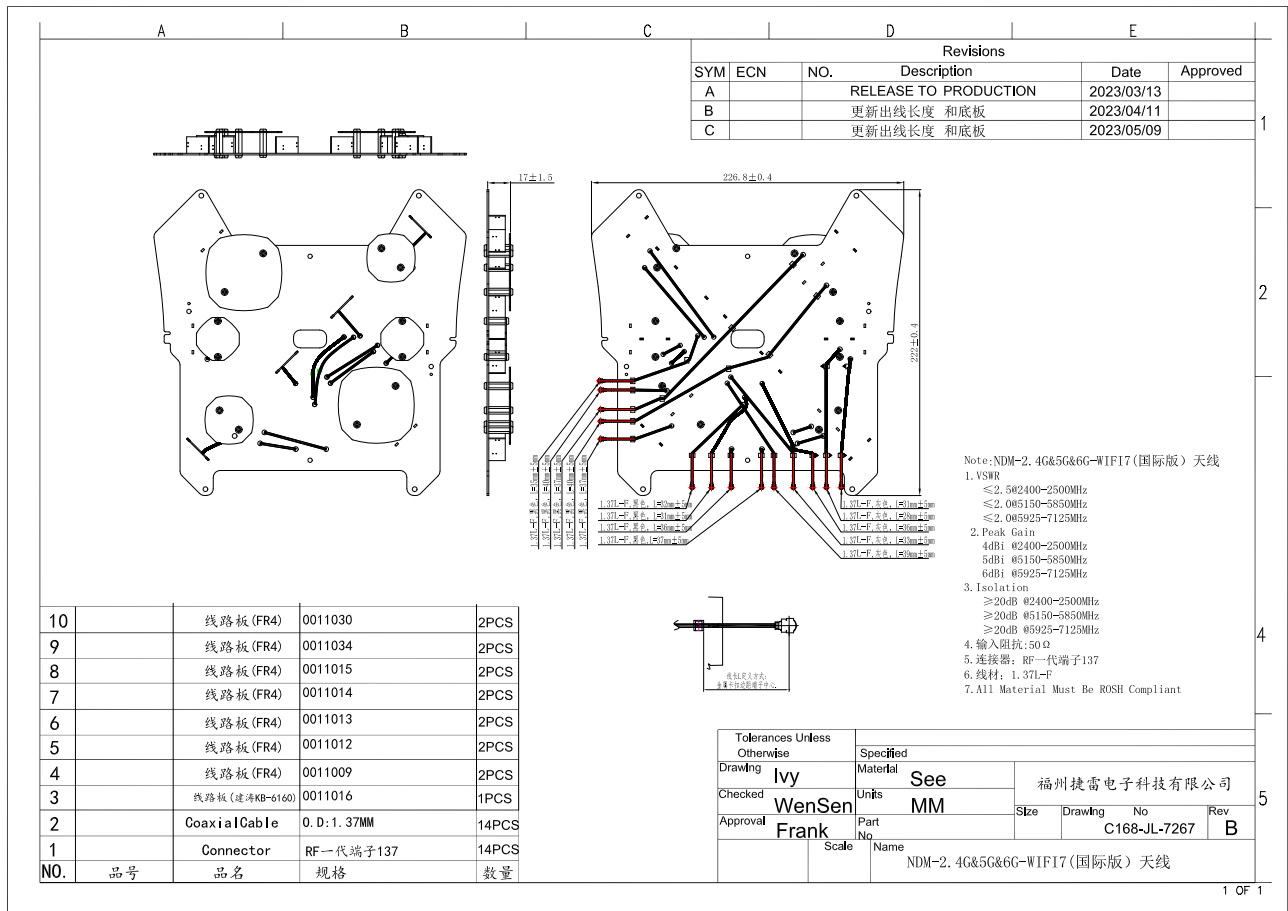
电性能指标/Electrical specifications			
频率范围 (GHz)/Frequency range(GHz)	2.4-2.5	5.15-5.85	5.925-7.125
电压驻波比/VSWR	≤2.5	≤2.0	≤2.0
输入阻抗 (Ohm)/Impedance(Ohm)	50	50	50
增益(dBi)/Peak Gain(dBi)	6.724	8.46	6.49
极化形式/Polarization Type	Linea		
隔离度/Isolation(dB)	≥20		
机械指标/Mechanical specifications			
天线尺寸（mm） /Dimensions(mm)	226.8*222*17		
连接器类型/Connector Type	RF 一代端子 137		
电缆类型/Cable Type	RF 1.37L-F		
工作温度（℃） /Operation Temperature （℃）	-40~70		
存储温度（℃）/Storage Temperature（℃）	-40~70		

2. Environmental Performance Test

NO	项目 Item	测试条件 Test Condition	规格要求 Requirement	结论
1	外观 Appearance	目测 Visual by eye 视力 Light:>1.0 照明 Lamp:200~300Lx 目测距离 Space:0.3~0.6m	1、塑胶件表面无明显疤痕、凹陷、开裂及影响使用变形。 Plastic part:smooth and flat surface without discolor,broken,crack distortion defects is acceptable 2、金属件表面无明显机械损伤等缺陷。 Metal part:No obvious mechanical damage and other defects on the surface 3、线路板(或柔性线路板)表面无脏污、破损、氧化、无明显的机械损伤等缺陷,丝印清晰。 PCB (or FPCB) : The surface is free of dirt, damage, oxidation, no obvious mechanical damage and other defects, screen printing clear. 4、导线表面清洁、无破损等缺陷。 Wire:clearing surface without discolor,broken defects.	☒ 合格 ☐ 不合格 ☐ NA
2	端子固定力 /Terminal Retention Force	固定连接器或测力计, 在连接器轴线方向施加规定的拉力, 速度不大于 25mm/min。 Apply axial pull out force at the speed rate of not more 25mm/min on the pin assembled in the housing.	12N	☒ 合格 ☐ 不合格 ☐ NA
3	焊接固定力 /Solder Retention Force	固定连接器或测力计, 在连接器轴线方向施加规定的拉力, 速度不大于 25mm/min。 Apply axial pull out force at the speed rate of not more 25mm/min on the pin assembled in the housing.	12N	☒ 合格 ☐ 不合格 ☐ NA
4	耐盐雾测试 /Salt spray test	参考 GB-T2423.17 规范, 浓度 5%之氯化钠(NaCl)溶液; PH 值 6.5-7.2; 温度 35℃,	静置常温干燥后, 检查外观, 样品表面无明显腐蚀等异常现象或依图面规格需求。 After drying at room temperature, check	☒ 合格 ☐ 不合格 ☐ NA

		测试时间 48H。 Refer to GB-T2423.17, NACL solution with 5% concentration, PH 6.5-7.2, temperature 35 °C, test time 48 hours.	appearance, the sample surface no obvious corrosion and other abnormal phenomena or according to the drawing specifications.	
5	高温测试 /High temperature test	参考 GB-T2423.2 规范, 温度 70℃, 测试时间 24 小时。 Refer to GB-T2423.2, the temperature is 70 °C and the time is 24 hours.	静置常温干燥后, 检查外观, 样品无变形、剥离、裂纹、皱纹异色、鱼鳞纹。 After drying at room temperature, check appearance, samples without deformation, stripping, cracks, wrinkles, different color, fish scale lines.	☒ 合格 ☐ 不合格 ☐ NA
6	低温测试 /Low temperature test	参考 GB-T2423.1 规范, 温度 -40℃, 测试时间 24 小时。 Refer to GB-T2423.1, the temperature is -40 °C for 24 hours.	静置常温干燥后, 检查外观, 样品无变形、剥离、裂纹、皱纹异色、鱼鳞纹。 After drying at room temperature, check appearance, samples without deformation, stripping, cracks, wrinkles, different color, fish scale lines.	☒ 合格 ☐ 不合格 ☐ NA

3. Mechanical Dimension Drawing



4. UL

CERTIFICATE OF COMPLIANCE	
Certificate Number	E513658
Report Reference	E513658-2020-05-08
Date	2023-April-28
Issued to:	Fujian WBT Communication Technology Co Ltd No.5, Huangzhu Road, Huangzhu Village Industrial Zone Lincheng Town, Shanghang Longyan Fujian 364200 CN
This is to certify that representative samples of	APPLIANCE WIRING MATERIAL - COMPONENT See Addendum Page for Product Designation(s).
	Have been evaluated by UL in accordance with the component requirements in the Standard(s) indicated on this Certificate. UL Recognized components are incomplete in certain constructional features or restricted in performance capabilities and are intended for installation in complete equipment submitted for investigation to UL LLC.
Standard(s) for Safety:	UL 758, Appliance Wiring Material
Additional Information:	See the UL Online Certifications Directory at https://iq.ulprospector.com for additional information
This Certificate of Compliance indicates that representative samples of the product described in the certification report have met the requirements for UL certification. It does not provide authorization to apply the UL Recognized Component Mark. Only the Authorization Page that references the Follow-Up Services Procedure for ongoing surveillance provides authorization to apply the UL Mark. Only those products bearing the UL Recognized Component Mark should be considered as being UL Certified and covered under UL's Follow-Up Services. Look for the UL Recognized Component Mark on the product.	
 Deborah Jennings-Corner, VP Regulatory Services UL LLC Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, please contact a local UL Customer Service Representative at ul@ulprospector.com 	

CERTIFICATE OF COMPLIANCE

Certificate Number E513658
Report Reference E513658-2020-05-08
Date 2023-April-28

This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements

SINGLE-CONDUCTOR THERMOPLASTIC-INSULATED WIRE

10007, 10050, 10064, 11863



Deborah Jennings-Corner, VP Regulatory Services

UL LLC

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ZPMV2.E320042 Wiring, Printed - Component

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[Page Bottom](#)

Wiring, Printed - Component

[See General Information for Wiring, Printed - Component](#)

TOP TECH KNW ELECTRONIC CO LTD

E320042

No.78 Dongning Road

Jianghai District

Jiangmen, Guangdong 529000 CHINA

	Cond Width				Max			Max			
		Min	Cond	SS/	Area	Solder	Oper		Meets		
	Min	Edge	Thk	DS/	Diam	Limits	Temp	Flame	UL796		
Type	mm(in)	mm(in)	mic(mil)	DSO	mm(in)	C	sec	C	Class	DSR	
Multilayer printed wiring boards.											
KNW-2	0.1 (0.004)	0.1 (0.004)	17 (0.67) Int:68	DS	50.8 (2.0)	288	10	130	V-0	All	*
Single layer printed wiring boards.											
KNW-1	0.1 (0.004)	0.1 (0.004)	17 (0.67)	DS	50.8 (2.0)	288	10	130	V-0	All	*

* - CTI marking is optional and may be marked on the printed wiring board.



Marking: Company name or trademark or file number and type designation. May be followed by a suffix to denote factory identification or burning test classification.

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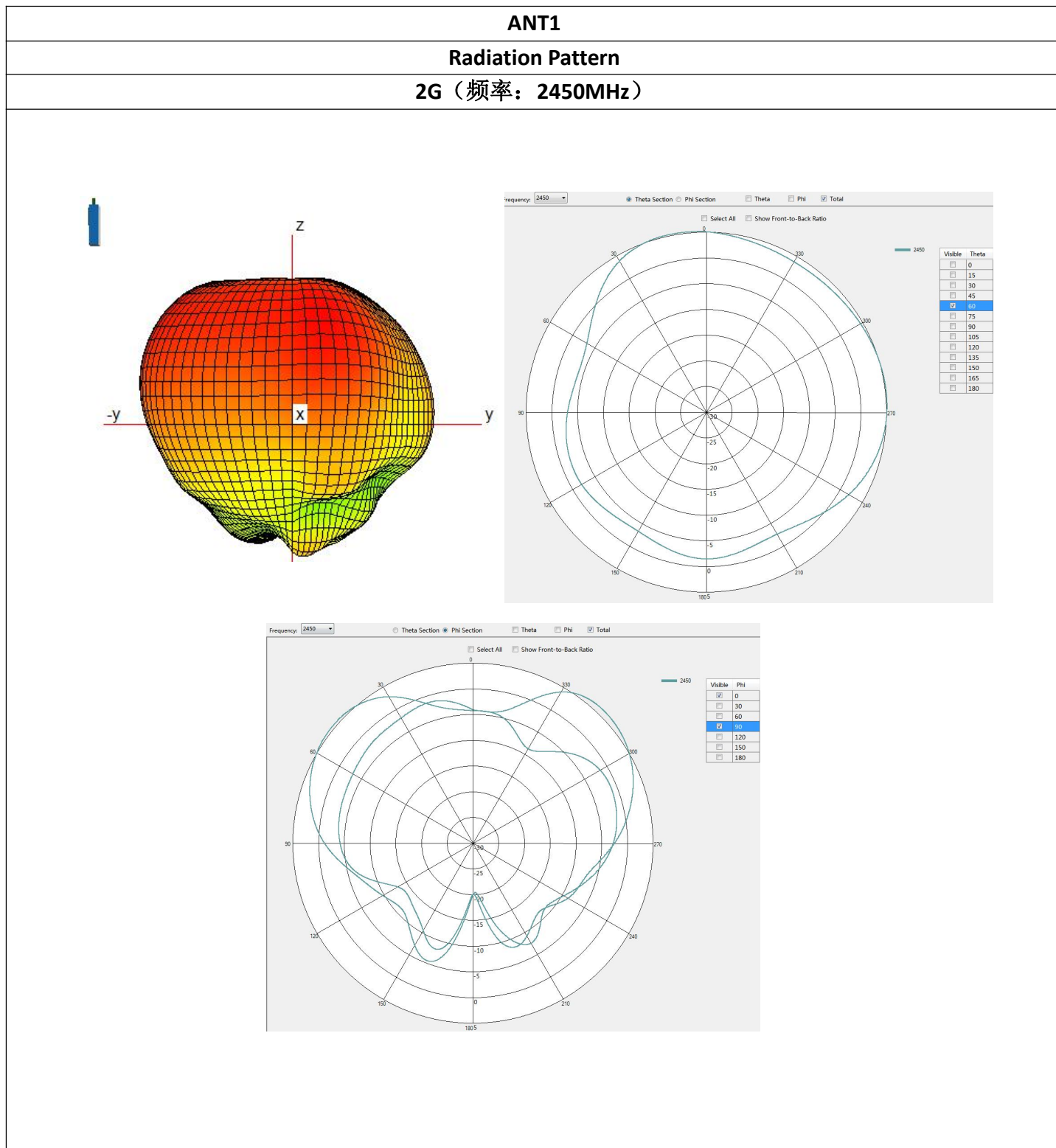
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QMFZ2 Component - Plastics			Friday, October 24, 2003					E107536	
SHINKONG SYNTHETIC FIBERS CORP									
223 YEN PING RD SEC 3 PIN CHENG TAOYUAN HSIEN 324 TW									
Material Designation: D201G30									
Product Description: Polybutylene Terephthalate (PBT), glass reinforced, furnished as pellets.									
Color	Min. Thick. (mm)	Flame Class	HWI	HAI	RTI Elec	RTI Imp	RTI Str	IEC GWIT	IEC GWFI
ALL	0.71	HB	4	0	140	120	140	-	-
	1.5	HB	2	0	140	130	140	-	-
	3.0	HB	1	1	140	130	140	-	-
CTI: 1	IEC CTI (V): -		HVTR: 0		D495: 5			IEC Ball Pressure (°C): -	
Dielectric Strength (kV/mm): 20		Volume Resistivity (10 ⁹ ohm-cm): 12					Dimensional Stability(%): 0		
ISO Tensile Strength (MPa): -		ISO Flexural Strength (MPa): -					ISO Heat Deflection (°C): -		
ISO Tensile Impact (kJ/m ²): -		ISO Izod Impact (kJ/m ²): -					ISO Charpy Impact (kJ/m ²): -		
Report Date: 7/13/1987			Underwriters Laboratories Inc®						
UL94 small-scale test data does not pertain to building materials, furnishings and related contents. UL 94 small-scale test data is intended solely for determining the flammability of plastic materials used in components and parts of end-product devices and appliances, where the acceptability of the combination is determined by ULI.									

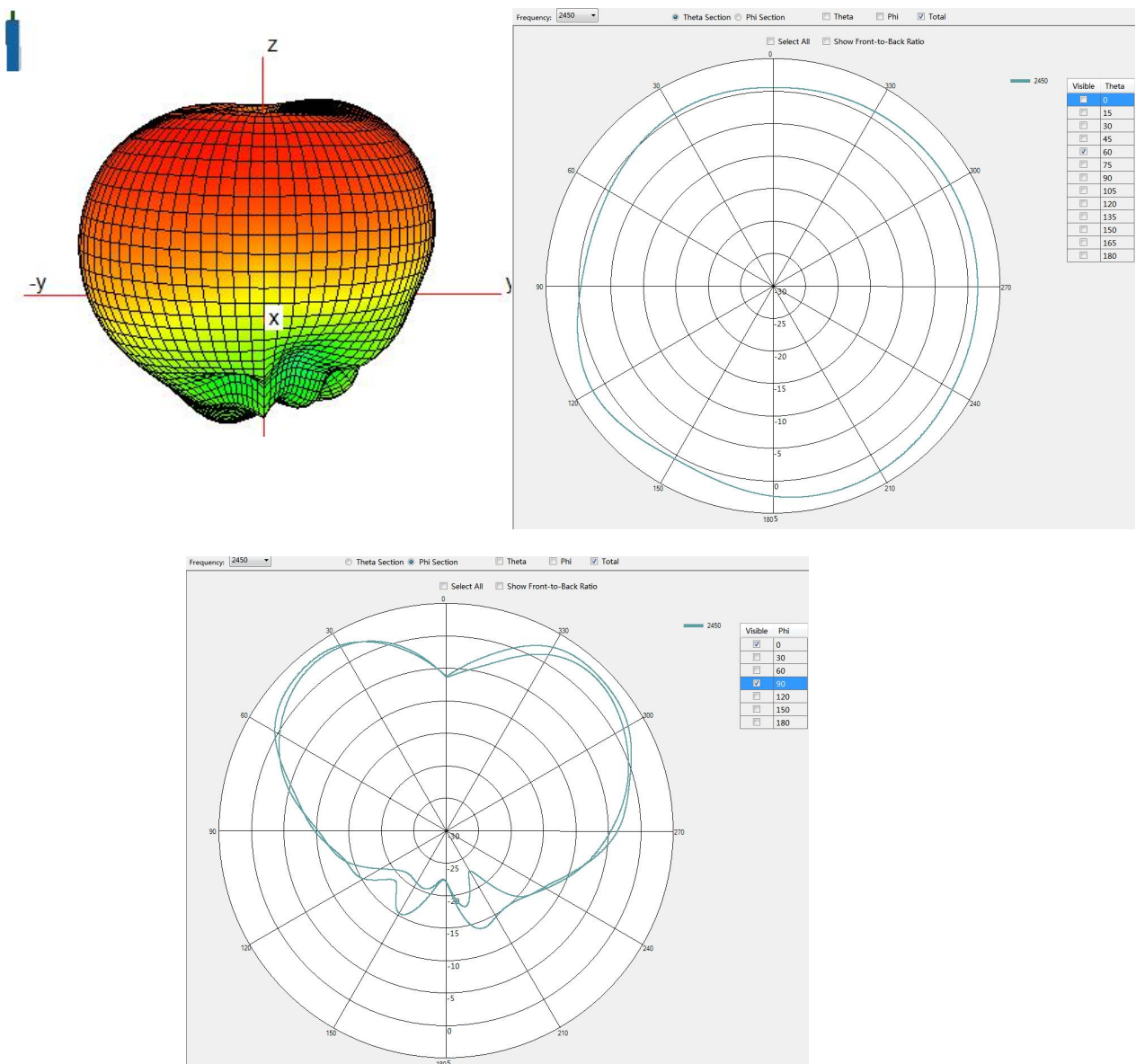
5. Antenna Performance



ANT2

Radiation Pattern

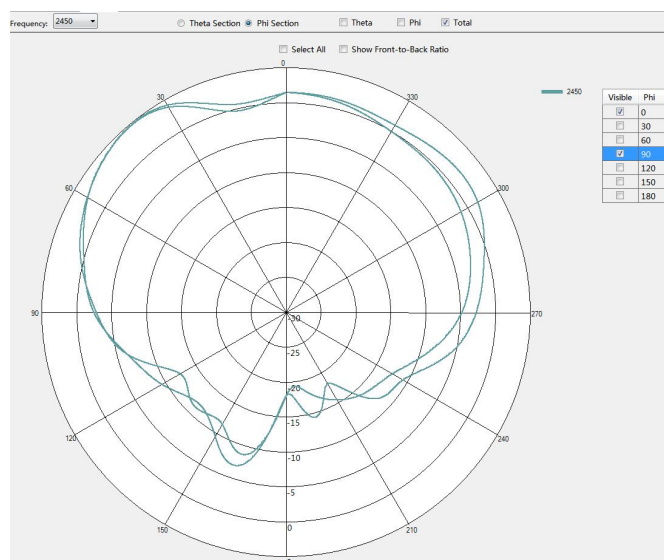
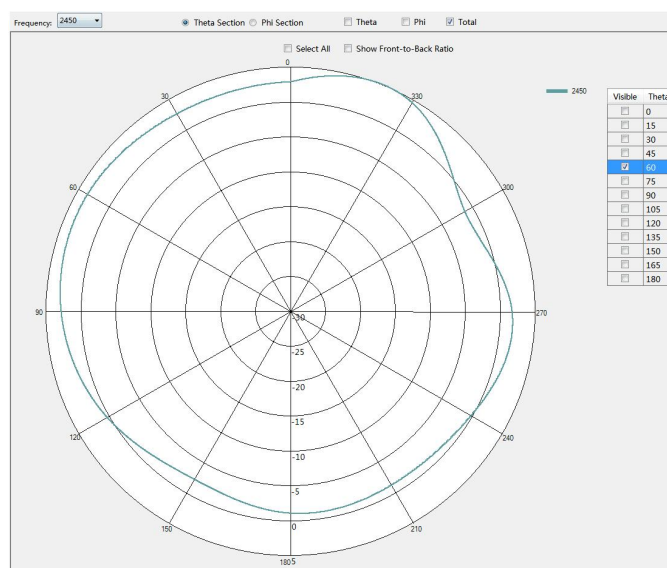
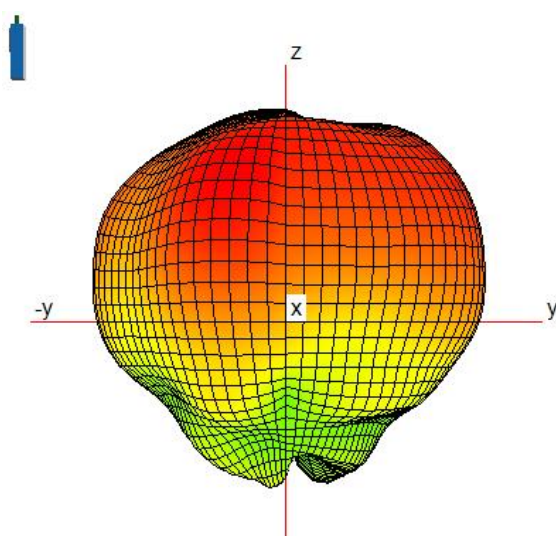
2G (频率: 2450MHz)



ANT3

Radiation Pattern

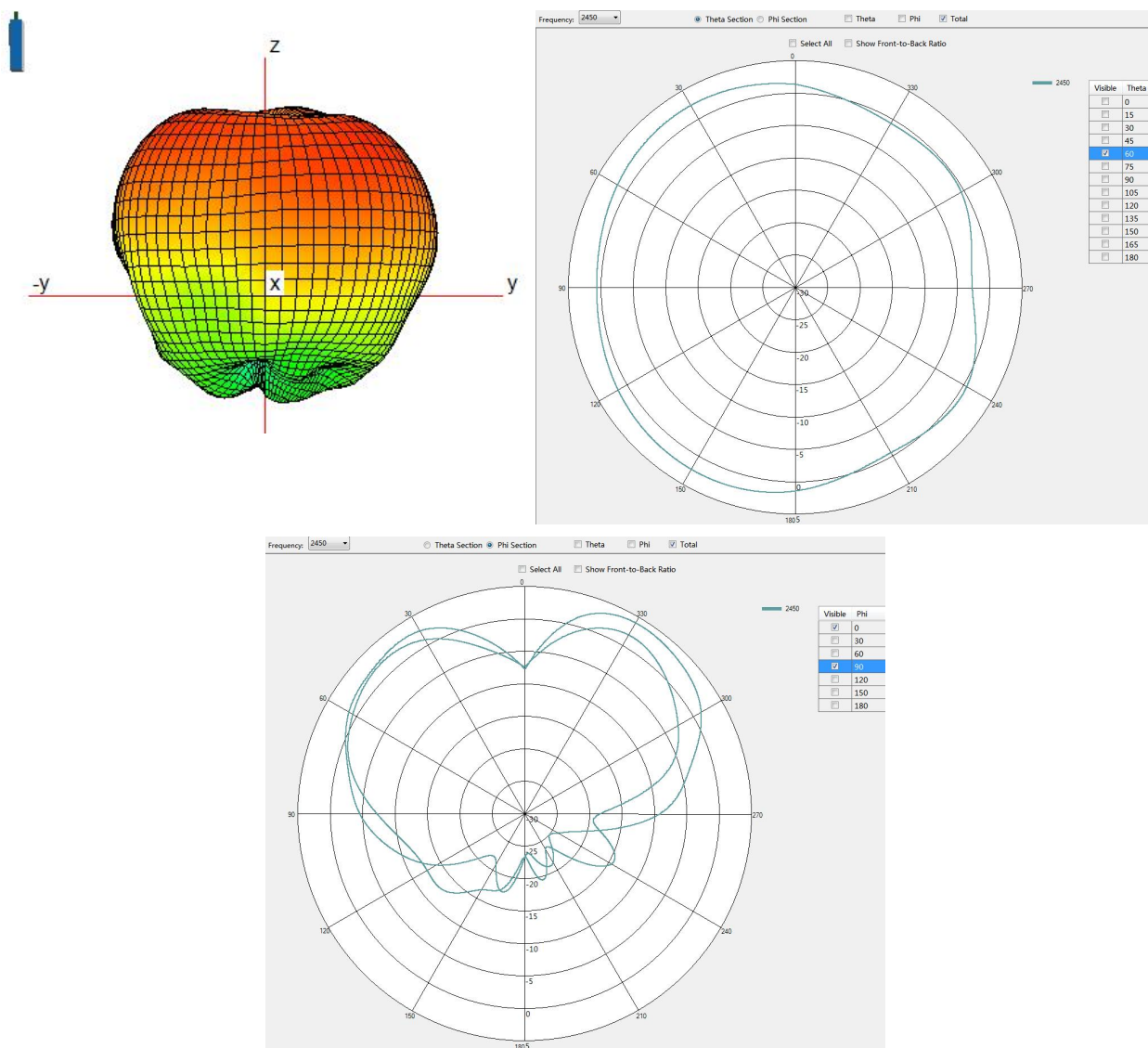
2G (频率: 2450MHz)



ANT4

Radiation Pattern

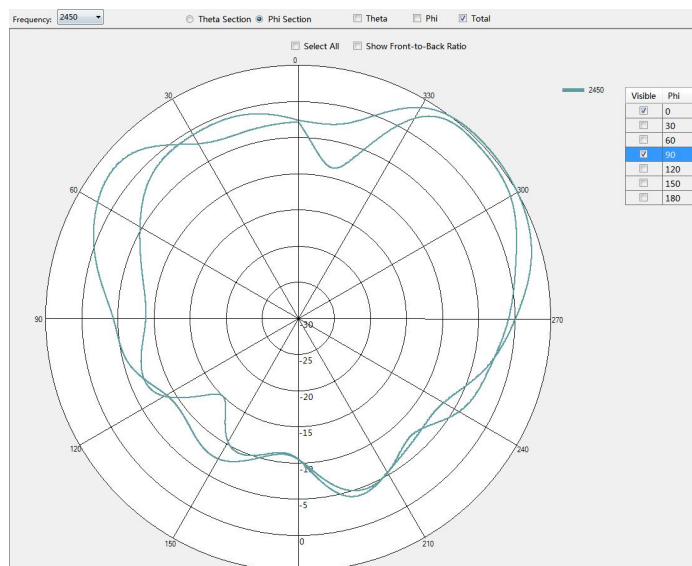
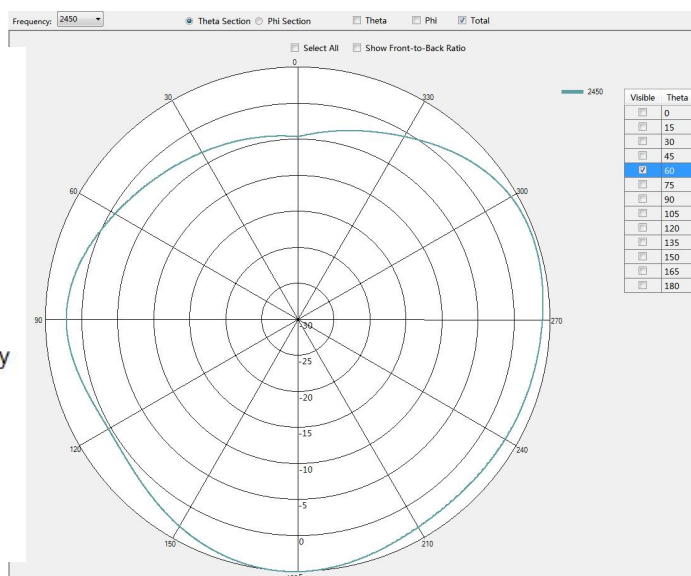
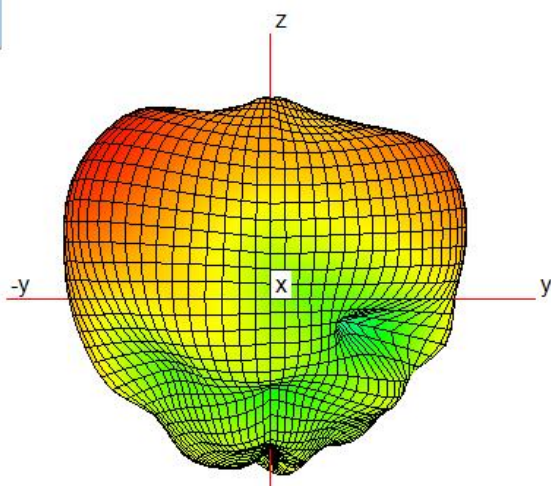
2G (频率: 2450MHz)



ANT14

Radiation Pattern

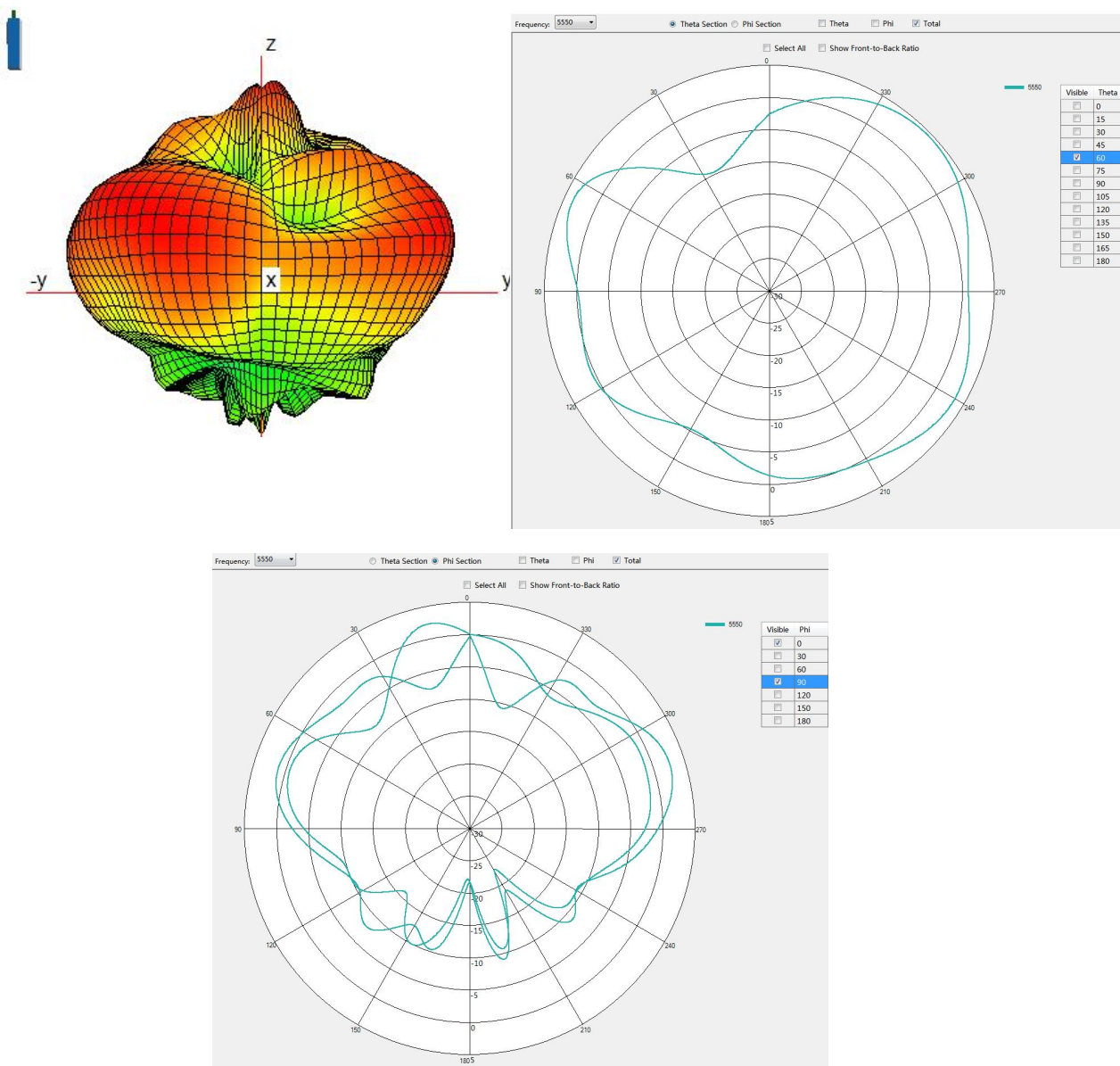
2G (频率: 2450MHz)



ANT14

Radiation Pattern

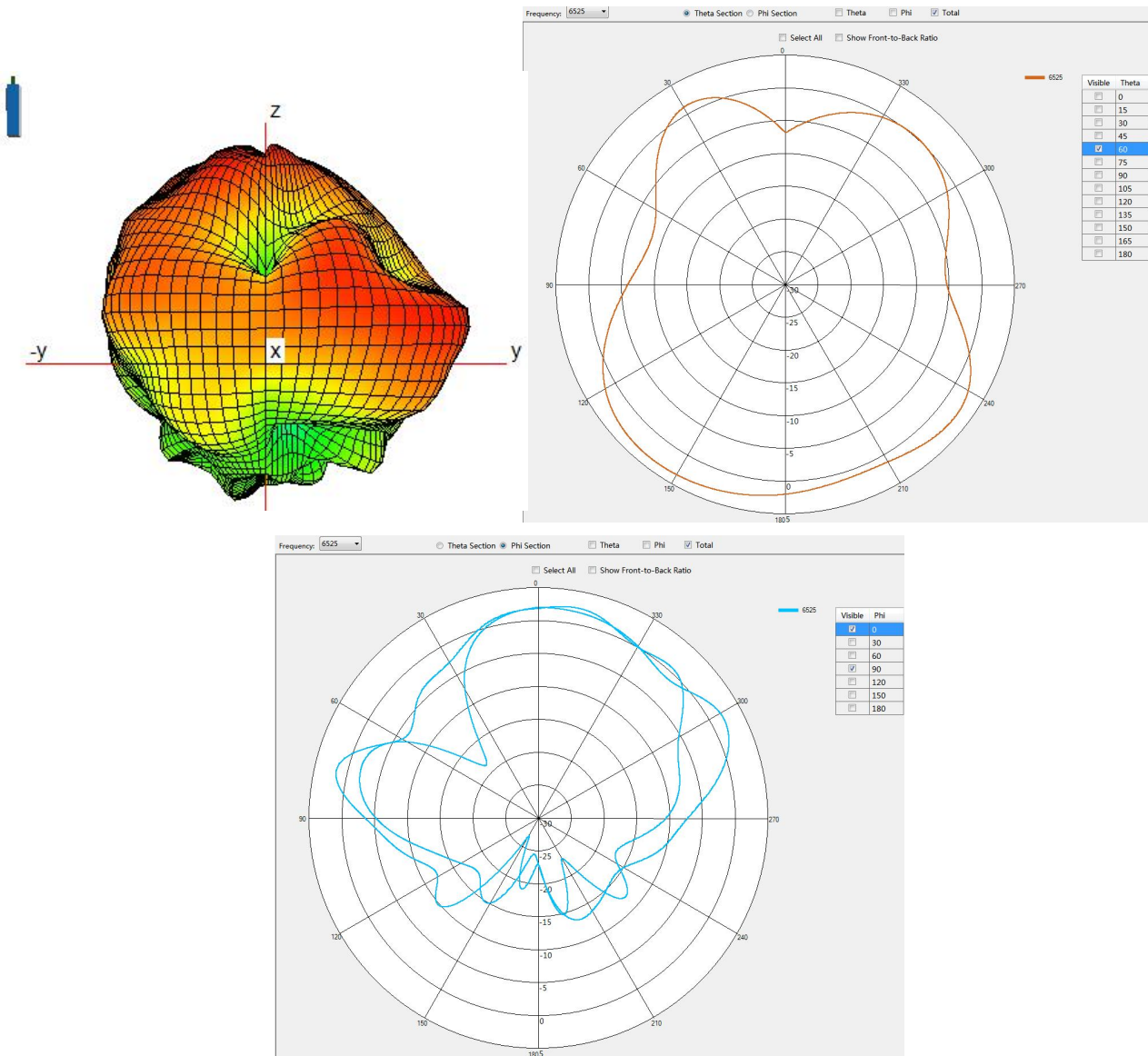
5G (频率: 5550MHz)



ANT14

Radiation Pattern

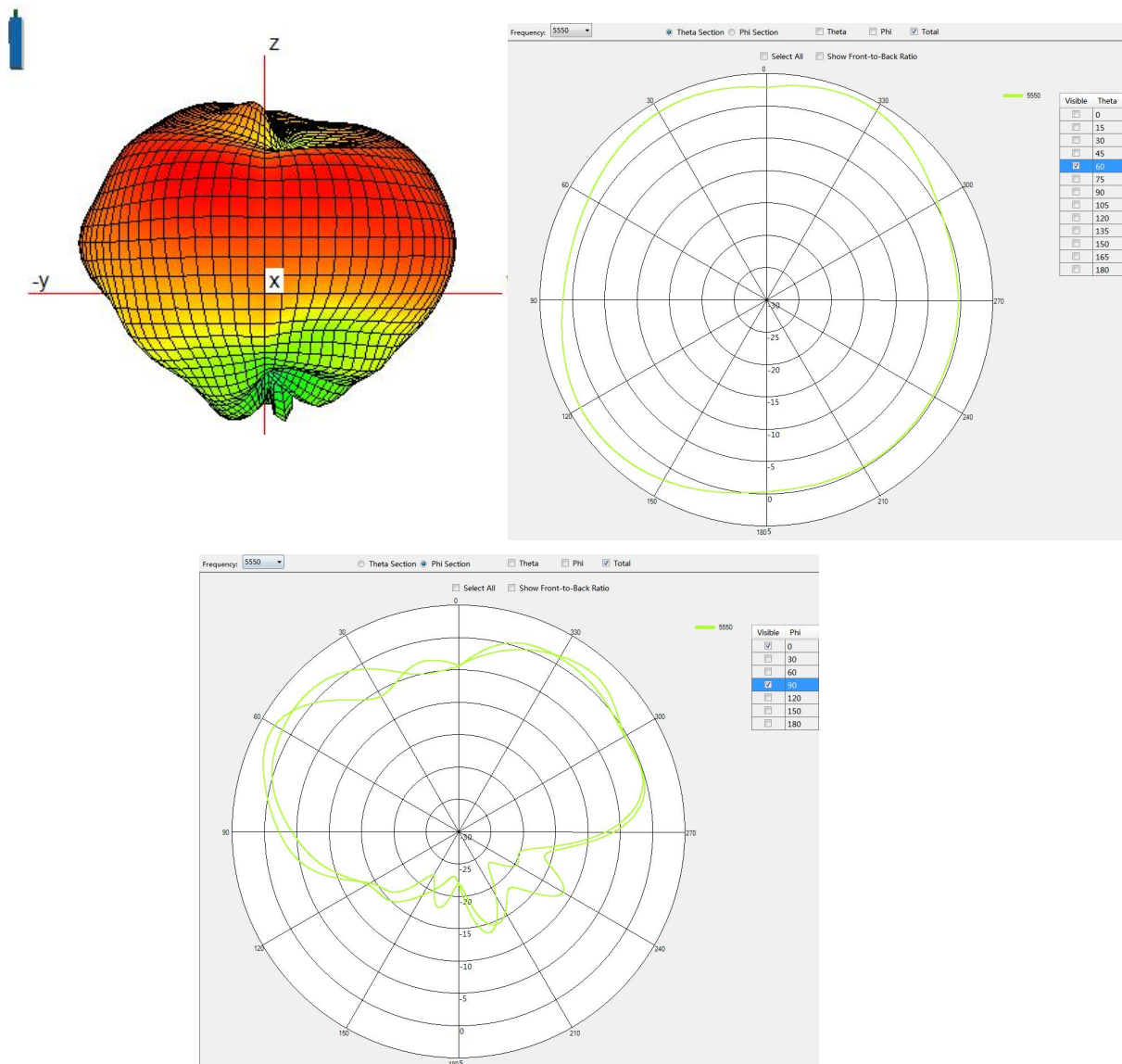
6G (频率: 6525MHz)



ANT5

Radiation Pattern

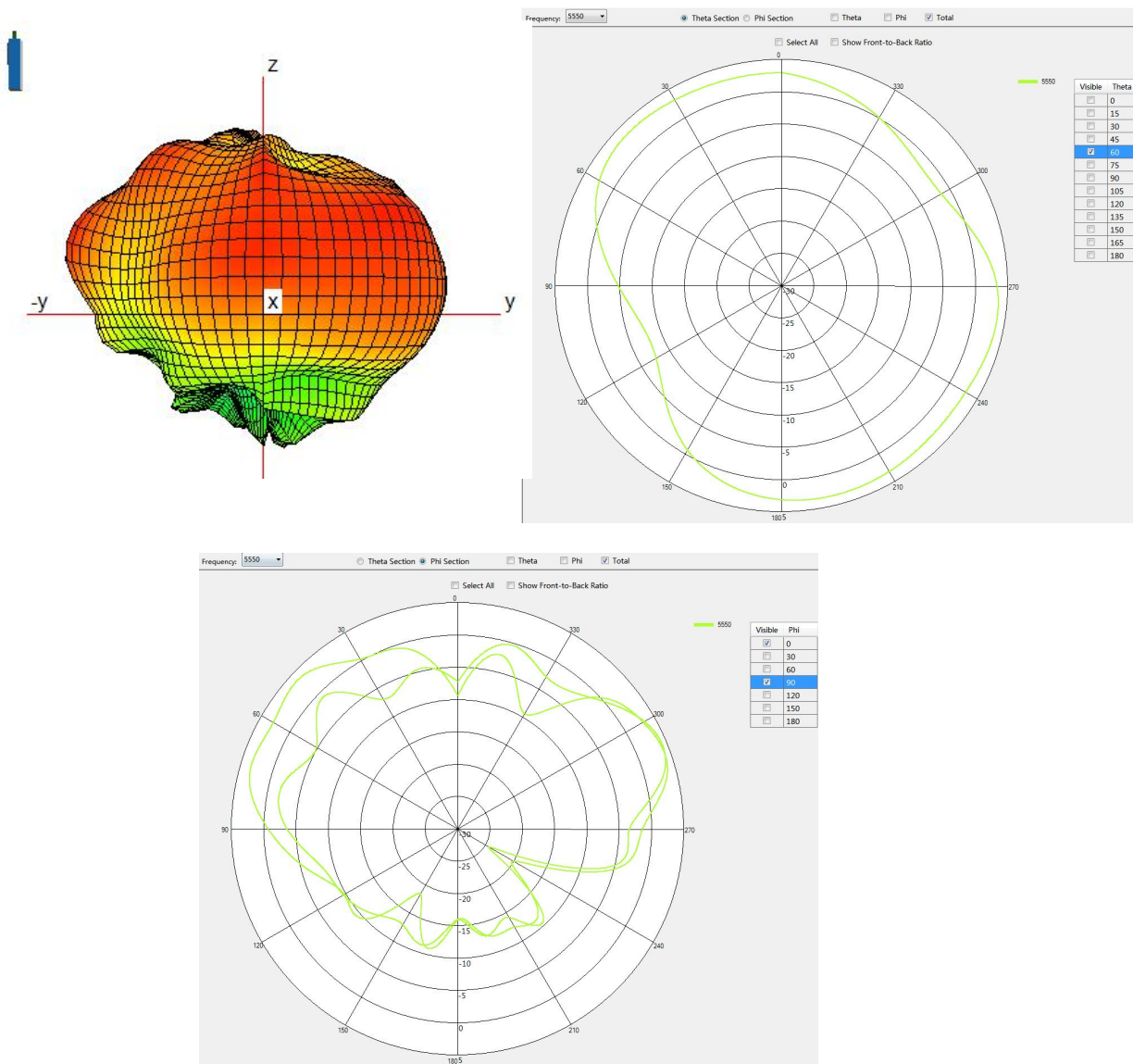
5G (频率: 5550MHz)



ANT6

Radiation Pattern

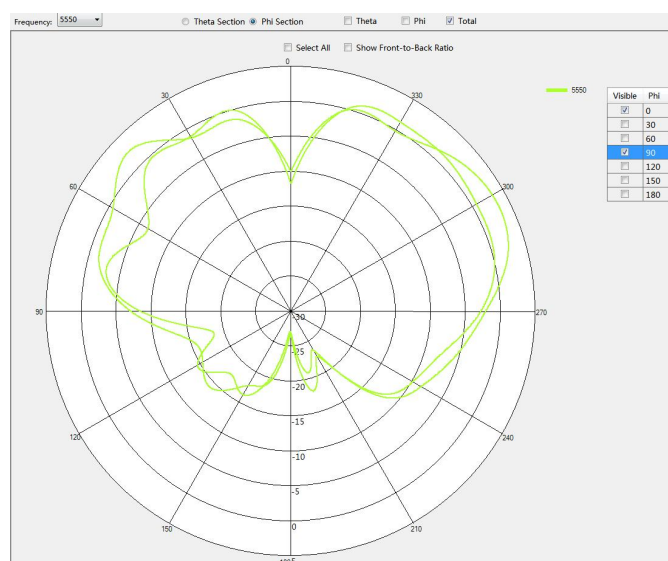
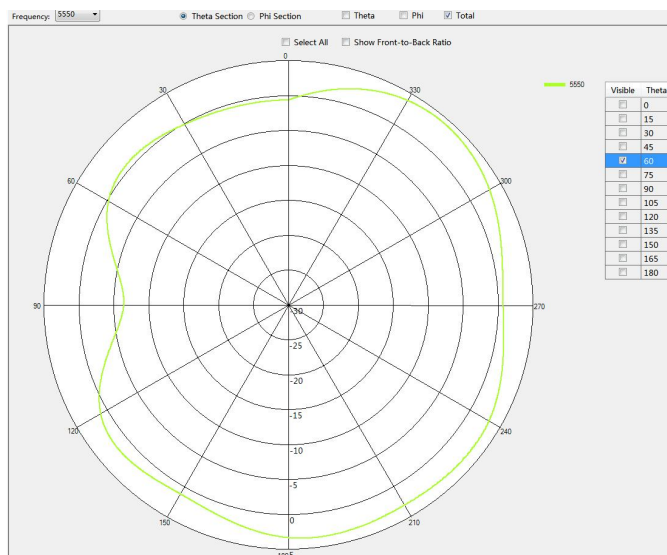
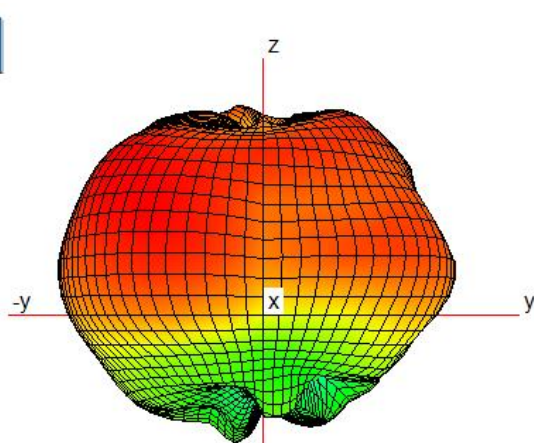
5G (频率: 5550MHz)



ANT7

Radiation Pattern

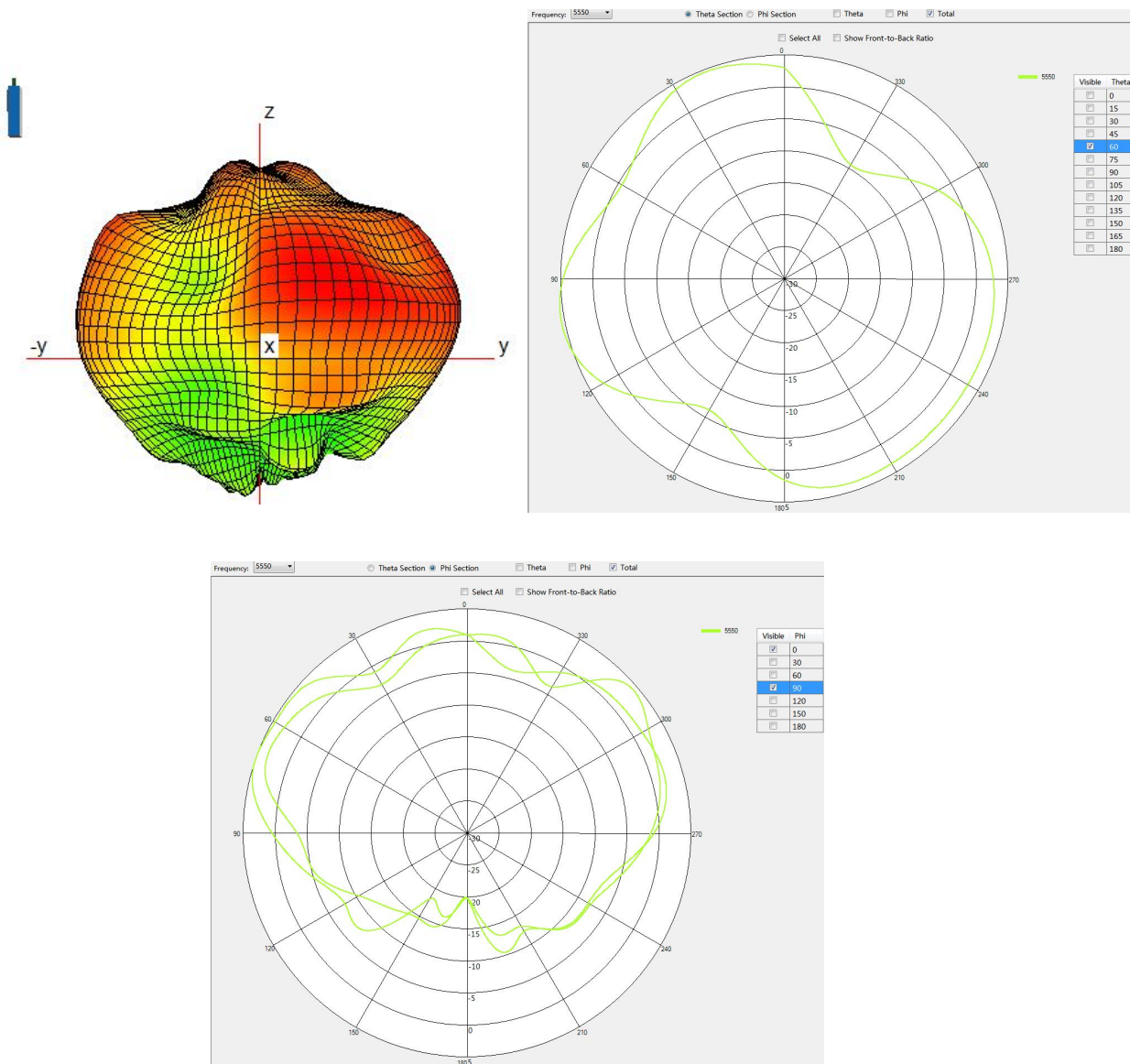
5G (频率: 5550MHz)



ANT8

Radiation Pattern

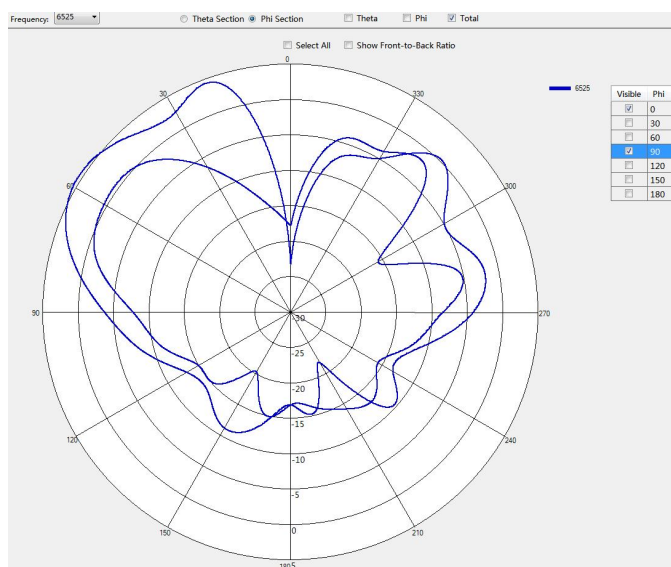
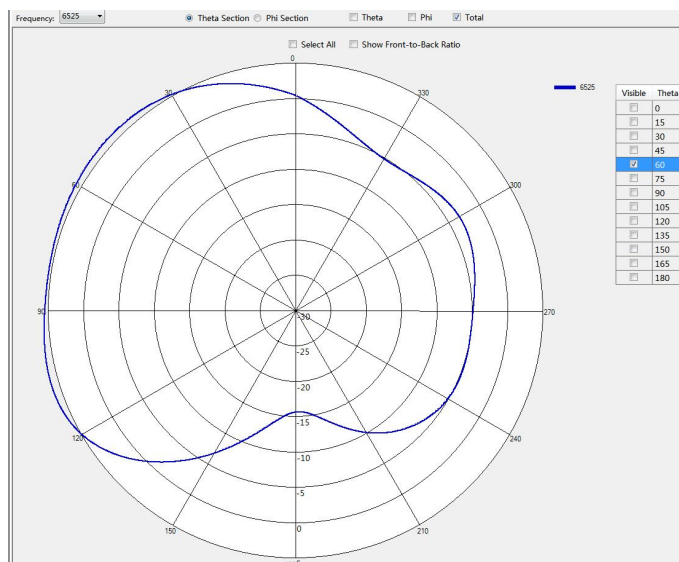
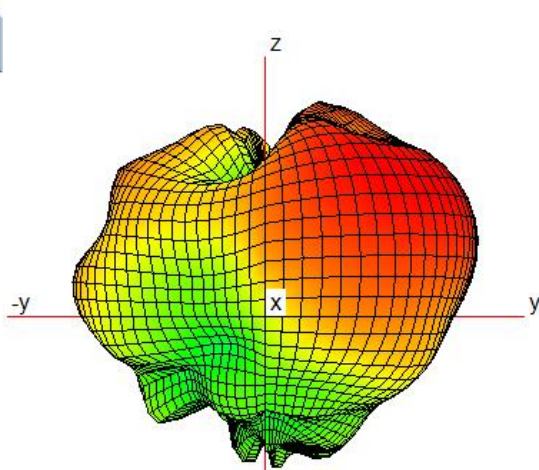
5G (频率: 5550MHz)



ANT9

Radiation Pattern

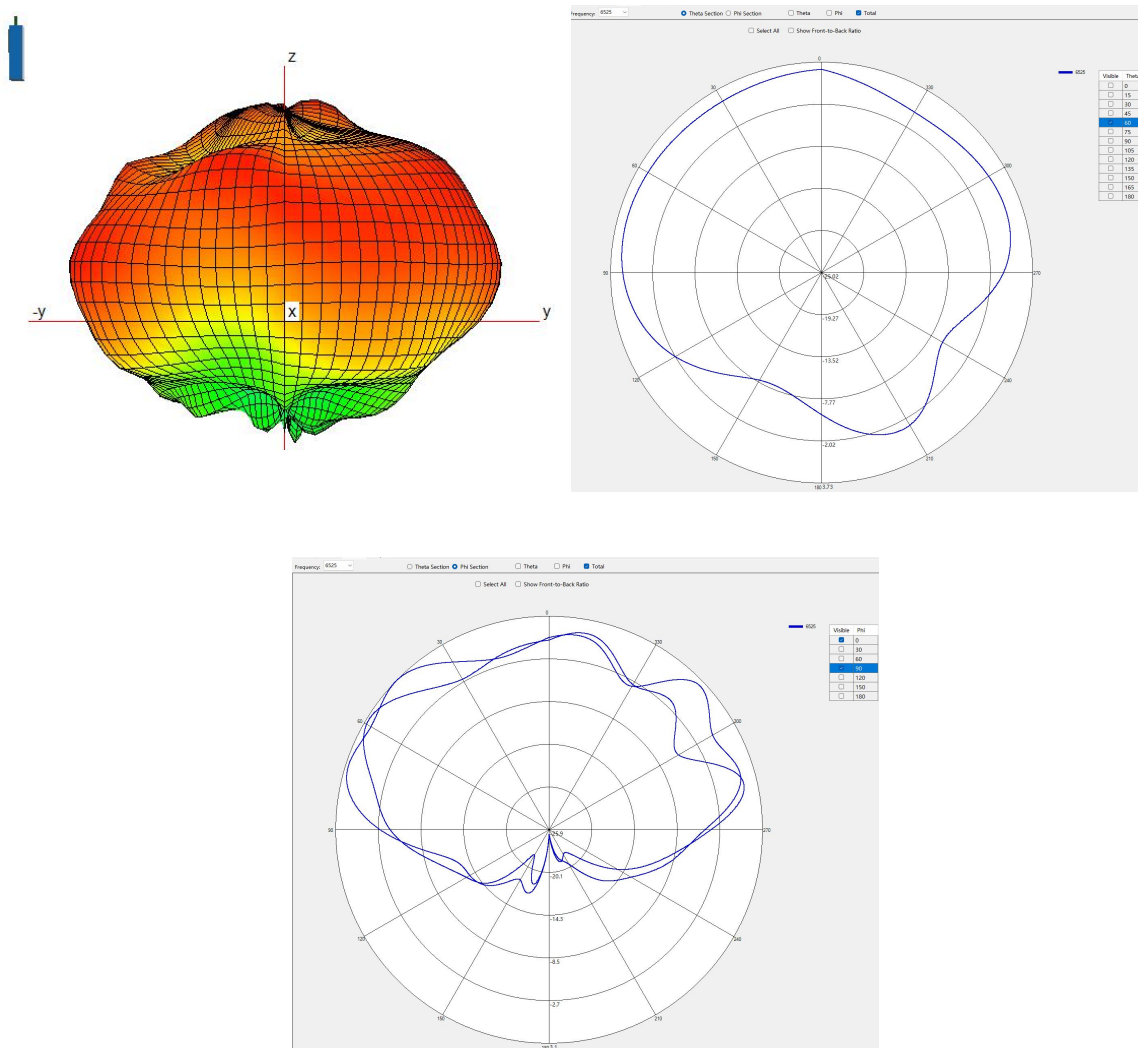
6G (频率: 6525MHz)



ANT10

Radiation Pattern

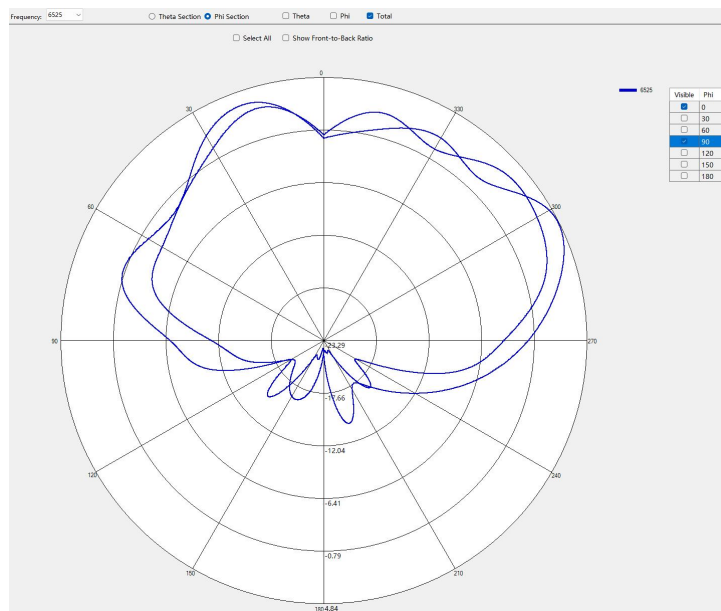
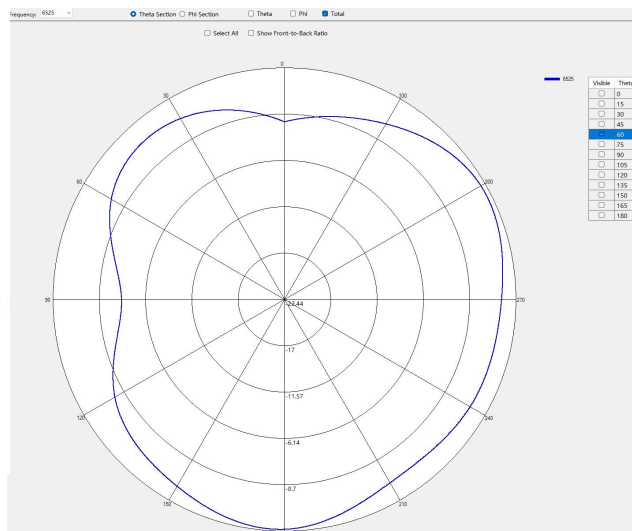
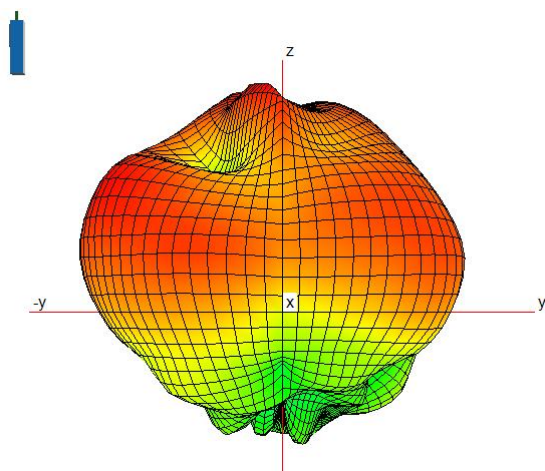
6G (频率: 6525MHz)



ANT11

Radiation Pattern

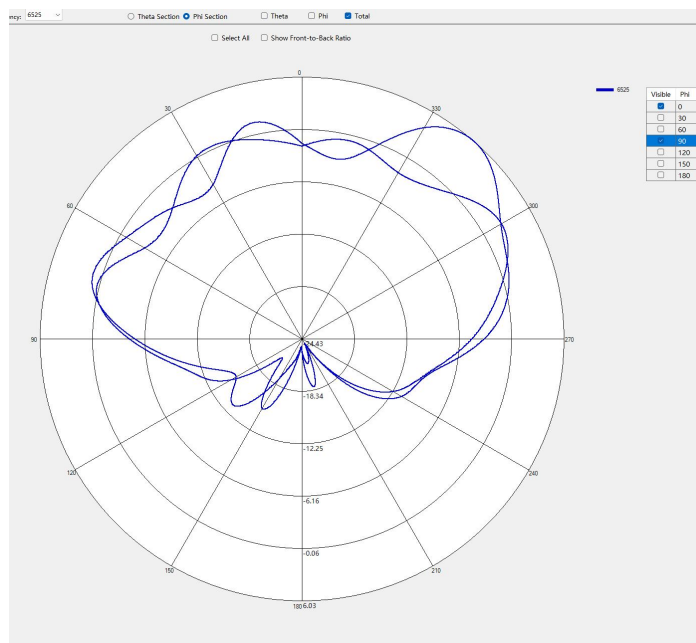
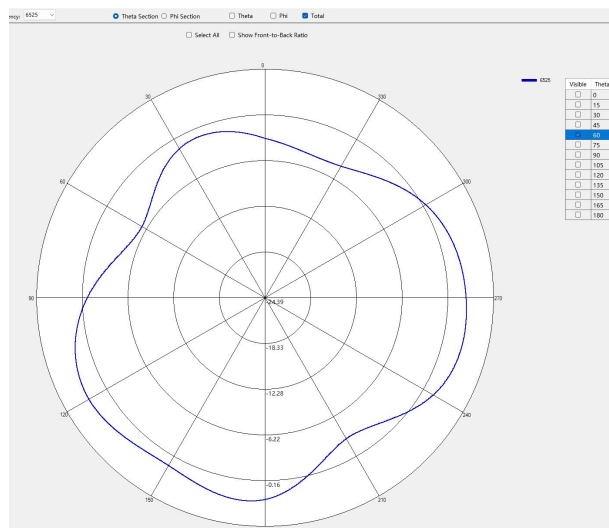
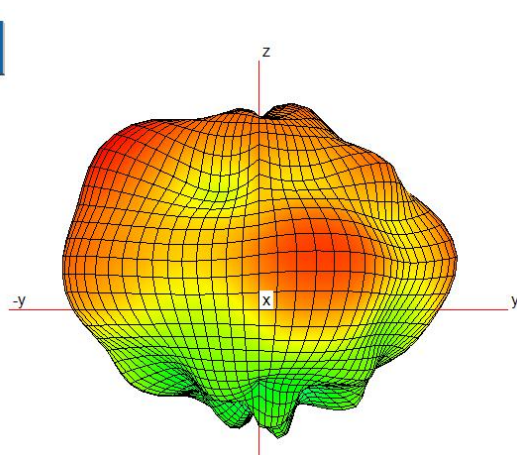
6G (频率: 6525MHz)



ANT12

Radiation Pattern

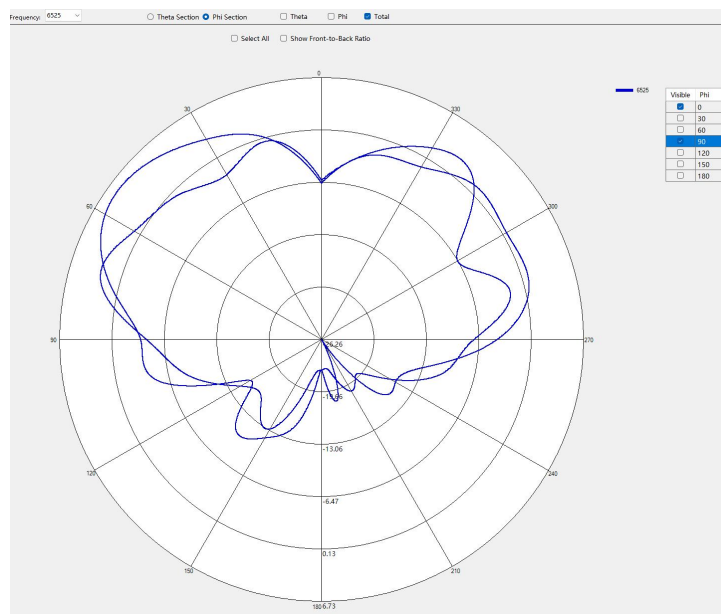
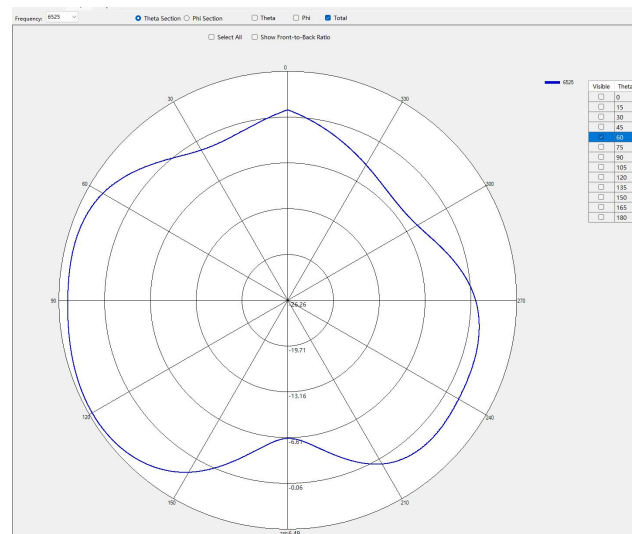
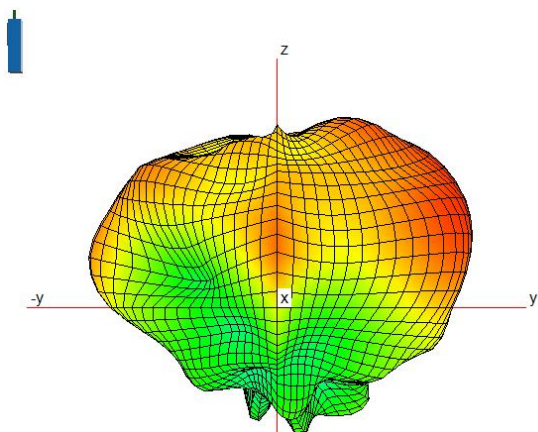
6G (频率: 6525MHz)



ANT13

Radiation Pattern

6G (频率: 6525MHz)



Freq	Effi	Max	Freq	Effi	Max	Freq	Effi	Max
(MHz)	(%)	(dB)	(MHz)	(%)	(dB)	(MHz)	(%)	(dB)
2400.00	69.465	6.4486468	2440.00	63.440244	6.7057535	2480.00	61.683742	5.3515145
2410.00	66.487	6.0808638	2450.00	59.686025	6.2010809	2490.00	63.809742	5.7845325
2420.00	63.641	6.0799955	2460.00	54.606265	4.6951954			
2430.00	64.187	6.569252	2470.00	55.814539	4.2389733			
1号 2.4G WIFI Antenna 1								
Freq	Effi	Max	Freq	Effi	Max	Freq	Effi	Max
(MHz)	(%)	(dB)	(MHz)	(%)	(dB)	(MHz)	(%)	(dB)
2400.00	61.783	6.5259438	2440.00	64.817161	6.594645	2480.00	60.509261	5.6000488
2410.00	62.508	6.4663467	2450.00	63.872133	6.2200506	2490.00	57.909099	4.9978581
2420.00	62.239	6.5568571	2460.00	61.501039	6.2054705			
2430.00	63.07	6.7154813	2470.00	60.801875	5.9781433			
2号 2.4G WIFI Antenna 2								
Freq	Effi	Max	Freq	Effi	Max	Freq	Effi	Max
(MHz)	(%)	(dB)	(MHz)	(%)	(dB)	(MHz)	(%)	(dB)
2400.00	66.037	4.8975479	2440.00	60.671445	4.2812042	2480.00	56.929147	6.2629591
2410.00	65.087	4.6149176	2450.00	58.071051	4.5165998	2490.00	59.166372	6.5161559
2420.00	62.516	4.2566566	2460.00	53.841428	4.7092892			
2430.00	60.878	4.3372387	2470.00	54.501877	5.4126887			
3号 2.4G WIFI Antenna 3								
(MHz)	(%)	(dB)	(MHz)	(%)	(dB)	(MHz)	(%)	(dB)
2400.00	63.435	5.7365072	2440.00	61.219953	5.6026312	2480.00	51.186543	4.8171605
2410.00	63.467	5.8528045	2450.00	58.434997	5.1399473	2490.00	48.133195	4.22523
2420.00	62.167	5.7644016	2460.00	54.112277	5.1046637			
2430.00	61.133	5.7538351	2470.00	52.16539	5.0695915			
4号 2.4G WIFI Antenna 4								
Freq	Effi	Max	Freq	Effi	Max	Freq	Effi	Max
(MHz)	(%)	(dB)	(MHz)	(%)	(dB)	(MHz)	(%)	(dB)
2400.00	81.139	6.6980799	5720.00	66.797234	5.5326933	6465.00	51.797688	5.1215424
2410.00	79.457	6.6236891	5730.00	66.759804	5.6250409	6475.00	52.648712	5.1591396
2420.00	76.191	6.5038416	5740.00	67.630863	5.7958378	6485.00	53.00108	5.2050151
2430.00	76.195	6.6054025	5750.00	68.706879	5.5882874	6495.00	53.191843	5.1801233
2440.00	77.22	6.5816228	5760.00	65.171894	5.305012	6505.00	53.173061	5.0770506
2450.00	74.433	6.1380685	5770.00	60.531972	5.2791008	6515.00	53.625154	5.0268498
2460.00	69.928	5.320167	5780.00	60.181519	5.3194865	6525.00	55.51496	5.1040518
2470.00	69.635	5.7045327	5790.00	61.815367	5.3110617	6535.00	56.713141	5.2089332
2480.00	70.784	6.1678946	5800.00	61.366001	5.0755639	6545.00	57.573775	5.2163042
2490.00	70.351	6.1965467	5810.00	58.494938	5.0768086	6555.00	58.294436	5.1656835
2500.00	70.819	6.22374	5820.00	57.88577	5.3140935	6565.00	57.303018	5.0181639
5150.00	43.889	5.3372611	5830.00	60.738857	5.3856991	6575.00	57.714682	5.0292558
5160.00	41.442	5.2171395	5840.00	62.153186	5.33497	6585.00	57.12637	5.032066
5170.00	40.238	5.152236	5850.00	61.770906	5.0608049	6595.00	55.941782	4.8918708
5180.00	43.272	5.4905392	5925.00	60.475474	4.5109742	6605.00	57.870829	5.0094867
5190.00	46.145	5.7420836	5935.00	52.47106	4.4966273	6615.00	59.109035	5.1220307
5200.00	47.252	5.7980372	5945.00	51.924827	4.4053281	6625.00	57.393977	5.0302421
5210.00	47.756	5.7467684	5955.00	50.438425	4.308787	6635.00	56.895847	5.0008904
5220.00	47.426	5.583075	5965.00	49.36512	4.355387	6645.00	56.176145	4.8648633
5230.00	49.029	5.6827555	5975.00	50.578465	4.4112913	6655.00	56.632393	4.813592
5240.00	49.905	5.6889977	5985.00	51.914876	4.3193781	6665.00	57.914619	4.7935082
5250.00	51.519	5.8408444	5995.00	52.587294	4.1750933	6675.00	55.450028	4.4723122
5260.00	53.31	6.0646094	6005.00	52.934423	3.8535898	6685.00	52.354116	4.0501066
5270.00	52.15	6.0099828	6015.00	51.995308	3.6534841	6695.00	50.992655	3.8197147
5280.00	50.478	5.9819084	6025.00	53.090285	3.6327279	6705.00	51.15515	3.8154165
5290.00	51.441	6.1056832	6035.00	55.906131	3.5393353	6715.00	54.044463	4.0427387

5300.00	52.102	6.203594	6045.00	56.394338	3.5653423	6725.00	56.017897	4.2107818
5310.00	51.985	6.2103124	6055.00	56.520642	3.6311371	6735.00	55.033137	4.0294408
5320.00	53.068	6.2504816	6065.00	56.369969	3.5078912	6745.00	55.215733	4.0334197
5330.00	53.535	6.2256004	6075.00	54.703174	3.616195	6755.00	55.342652	4.1105995
5340.00	53.606	6.1968217	6085.00	56.013686	3.7404355	6765.00	56.798262	4.3370492
5350.00	55.894	6.3726558	6095.00	57.254883	3.666657	6775.00	60.642731	4.6485383
5360.00	59.788	6.652466	6105.00	56.771188	3.6370755	6785.00	60.826775	4.7153026
5370.00	60.843	6.750428	6115.00	56.968073	3.678737	6795.00	57.612319	4.499247
5380.00	61.443	6.6892147	6125.00	56.250516	3.7701606	6805.00	56.6748	4.4490569
5390.00	63.382	6.8351882	6135.00	56.793201	3.8954768	6815.00	58.317716	4.5085126
5400.00	65.088	6.8720686	6145.00	57.836899	3.8881954	6825.00	60.256767	4.6169265
5410.00	67.197	6.9655194	6155.00	57.498312	4.0323652	6835.00	58.155471	4.4745296
5420.00	70.619	7.1491894	6165.00	58.786296	4.2627339	6845.00	55.82418	4.2710109
5430.00	69.828	6.9900137	6175.00	60.958907	4.2375791	6855.00	55.634655	4.215355
5440.00	67.565	6.8224551	6185.00	59.097791	4.4699057	6865.00	54.676436	4.043723
5450.00	66.065	6.6447872	6195.00	58.697009	4.709392	6875.00	54.916749	4.0632754
5460.00	68.406	6.7272936	6205.00	59.062866	4.7270172	6885.00	55.856835	4.1808487
5470.00	70.342	6.7212601	6215.00	57.240577	4.7672591	6895.00	54.320496	4.1651428
5480.00	68.926	6.4380388	6225.00	56.685273	4.8810264	6905.00	53.301598	4.1577745
5490.00	66.218	6.1235408	6235.00	55.313735	4.8060905	6915.00	52.183925	4.2024845
5500.00	65.978	6.0204961	6245.00	51.597434	4.9244315	6925.00	52.959329	4.3406057
5510.00	67.636	6.0703424	6255.00	50.848404	5.1608201	6935.00	55.268575	4.6459654
5520.00	70.909	6.159067	6265.00	51.566047	5.2885619	6945.00	55.24212	4.7792295
5530.00	75.373	6.4386645	6275.00	51.809472	5.4255522	6955.00	53.557507	4.7716715
5540.00	74.98	6.3705551	6285.00	52.001964	5.5260084	6965.00	54.401937	4.9558088
5550.00	71.147	6.1912	6295.00	51.71349	5.7162303	6975.00	55.057647	5.0293307
5560.00	72.953	6.246752	6305.00	53.001625	6.0086715	6985.00	58.776272	5.3281966
5570.00	77.07	6.3919862	6315.00	55.776986	6.0614964	6995.00	64.54561	5.7868574
5580.00	78.02	6.4555092	6325.00	56.07611	6.0701879	7005.00	64.410434	5.8601403
5590.00	74.193	6.0744434	6335.00	56.789454	6.1133903	7015.00	60.684698	5.6934565
5600.00	71.675	5.834187	6345.00	58.595329	5.9998315	7025.00	59.558439	5.7013232
5610.00	69.728	5.5798465	6355.00	58.010521	5.9137243	7035.00	60.185014	5.7792649
5620.00	69.289	5.4032841	6365.00	58.108196	5.9899162	7045.00	61.998331	5.9353223
5630.00	72.464	5.4953526	6375.00	60.753117	5.9723854	7055.00	61.439725	5.9460852
5640.00	73.434	5.4739866	6385.00	62.373625	5.7167249	7065.00	58.103733	5.7185473
5650.00	68.834	5.1067511	6395.00	60.095946	5.4002491	7075.00	56.329718	5.6206261
5660.00	64.231	4.7860611	6405.00	55.942335	5.2742557	7085.00	55.874356	5.5508964
5670.00	67.716	5.0827167	6415.00	54.529535	5.2998455	7095.00	57.984965	5.7314092
5680.00	72.723	5.5608733	6425.00	54.84432	5.1908516	7105.00	61.827452	6.0718119
5690.00	71.192	5.5919336	6435.00	53.327755	5.1379054	7115.00	62.578335	6.2260893
5700.00	67.966	5.4744687	6445.00	52.02862	5.2254937	7125.00	59.679635	6.0895193
5710.00	66.797	5.4383119	6455.00	52.294008	5.1626824			
14号 2.4G/5G WIFI RX Antenna								

Freq	Effi	Max	Freq	Effi	Max	Freq	Effi	Max
(MHz)	(%)	(dB)	(MHz)	(%)	(dB)	(MHz)	(%)	(dB)
5150.00	51.975	4.0005308	5390.00	48.942277	3.2099736	5630.00	58.072596	4.0175117
5160.00	50.945	4.0694508	5400.00	48.594836	3.2389806	5640.00	58.816536	3.970099
5170.00	49.931	4.0468565	5410.00	51.174298	3.5432991	5650.00	55.900267	3.7248041
5180.00	52.748	4.3867624	5420.00	52.363193	3.563452	5660.00	52.274456	3.4324038
5190.00	56.456	4.7707122	5430.00	52.08536	3.5265899	5670.00	54.679911	3.6919375
5200.00	56.138	4.7210657	5440.00	51.246866	3.2862542	5680.00	58.184964	4.0125253
5210.00	56.324	4.7716842	5450.00	48.730407	3.0540311	5690.00	55.810737	3.7044506
5220.00	57.099	4.8135557	5460.00	50.238029	3.1383071	5700.00	53.045289	3.5287827
5230.00	56.407	4.6450234	5470.00	51.406864	3.2398133	5710.00	52.164889	3.3600027
5240.00	56.652	4.5481232	5480.00	49.022597	3.0362054	5720.00	52.133742	3.3287675
5250.00	57.903	4.5350067	5490.00	47.515213	3.0405079	5730.00	52.323008	3.2464989
5260.00	56.557	4.2859017	5500.00	46.909043	3.0824569	5740.00	53.435589	3.4119006
5270.00	55.576	4.1861806	5510.00	46.491116	3.0537365	5750.00	50.756005	3.2177956
5280.00	52.006	3.7906626	5520.00	49.264308	3.3910796	5760.00	47.948004	3.1478099
5290.00	49.643	3.5075565	5530.00	51.308674	3.5526317	5770.00	48.530672	3.3470905
5300.00	49.358	3.3915249	5540.00	51.374958	3.6781522	5780.00	50.012744	3.5608346
5310.00	46.721	3.0535274	5550.00	49.963412	3.5969442	5790.00	50.074083	3.6126764
5320.00	46.194	3.1748616	5560.00	51.396501	3.8597291	5800.00	47.441316	3.3321352
5330.00	46.353	3.2814576	5570.00	55.632767	4.2474608	5810.00	47.573754	3.3732731
5340.00	43.377	3.12549	5580.00	57.03898	4.2786301	5820.00	50.021704	3.5901165
5350.00	43.891	3.210396	5590.00	55.219387	4.1481731	5830.00	51.929136	3.7103474
5360.00	46.623	3.3831823	5600.00	54.92159	4.0376865	5840.00	52.43107	3.68905
5370.00	46	3.1990028	5610.00	54.368553	4.0006644	5850.00	51.73369	3.5855801
5380.00	47.796	3.3088204	5620.00	55.126903	3.8137031			

5号 5G WIFI Antenna 1

Freq	Effi	Max	Freq	Effi	Max	Freq	Effi	Max
(MHz)	(%)	(dB)	(MHz)	(%)	(dB)	(MHz)	(%)	(dB)
5150.00	61.449	7.2425911	5390.00	54.003736	6.521619	5630.00	70.760843	7.0195563
5160.00	58.782	7.0661703	5400.00	53.816562	6.458406	5640.00	72.453353	7.0656253
5170.00	56.066	6.8692611	5410.00	56.180306	6.6264946	5650.00	68.532324	6.8480004
5180.00	58.927	7.1134219	5420.00	58.533756	6.7689025	5660.00	64.838497	6.6617988
5190.00	62.233	7.4056826	5430.00	58.27546	6.6397906	5670.00	68.227619	7.001517
5200.00	61.578	7.4482277	5440.00	57.781674	6.5618945	5680.00	73.004061	7.5182587
5210.00	60.944	7.4589124	5450.00	55.769313	6.2728254	5690.00	71.059983	7.65186
5220.00	60.08	7.39421	5460.00	57.846731	6.3340044	5700.00	66.444584	7.6480557
5230.00	59.481	7.3962879	5470.00	59.887715	6.3827628	5710.00	64.887837	7.766595
5240.00	58.711	7.3181268	5480.00	57.811649	6.1094503	5720.00	63.985867	8.0214121
5250.00	59.522	7.348205	5490.00	55.834391	5.8673171	5730.00	63.843554	8.1953159
5260.00	58.976	7.2534207	5500.00	55.130419	5.7676416	5740.00	64.998322	8.447411
5270.00	57.649	7.0324546	5510.00	55.67284	5.7789258	5750.00	61.760842	8.3301485
5280.00	55.041	6.789912	5520.00	58.769578	5.9366848	5760.00	58.226737	8.1027707
5290.00	54.146	6.6625682	5530.00	62.206379	6.197712	5770.00	58.758689	8.0885365
5300.00	55.343	6.750656	5540.00	62.411399	6.1844949	5780.00	61.36089	8.1038584
5310.00	54.2	6.6764527	5550.00	60.571903	6.1276479	5790.00	61.568176	7.9645859
5320.00	53.921	6.6641586	5560.00	62.704701	6.3022092	5800.00	59.129685	7.4808977
5330.00	54.586	6.6822945	5570.00	67.453113	6.6753675	5810.00	58.943663	7.1501591
5340.00	51.868	6.4303069	5580.00	69.801667	6.9713953	5820.00	62.039685	7.0100032
5350.00	51.813	6.4295066	5590.00	67.315944	6.8343905	5830.00	63.920286	6.7825111
5360.00	54.066	6.5854201	5600.00	66.846277	6.8719744	5840.00	64.082037	6.5384438
5370.00	52.465	6.4712496	5610.00	66.149818	6.8354327	5850.00	62.966555	6.1932956
5380.00	53.035	6.4062339	5620.00	66.623756	6.823226			

6号 5G WIFI Antenna 2

Freq	Effi	Max	Freq	Effi	Max	Freq	Effi	Max
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(MHz)	(%)	(dB)	(MHz)	(%)	(dB)	(MHz)	(%)	(dB)
5150.00	63.256	3.8562723	5390.00	58.53757	4.0715213	5630.00	72.344652	4.4032456
5160.00	59.902	3.6911749	5400.00	59.778007	4.2081236	5640.00	72.166733	4.4562827
5170.00	57.202	3.52362	5410.00	62.778398	4.4223565	5650.00	68.134362	4.3331078
5180.00	60.345	3.8703655	5420.00	65.490668	4.4831553	5660.00	64.579462	4.2553452
5190.00	62.672	4.1464598	5430.00	66.09045	4.5381615	5670.00	68.735496	4.6533527
5200.00	62.07	4.1512032	5440.00	63.762981	4.2674503	5680.00	73.532249	5.0550971
5210.00	62.969	4.338003	5450.00	61.737527	4.1654896	5690.00	70.953886	4.9740633
5220.00	61.793	4.3460011	5460.00	63.969565	4.2021843	5700.00	68.394765	4.7344058
5230.00	61.472	4.3190754	5470.00	65.164652	4.1397825	5710.00	67.783833	4.689533
5240.00	61.622	4.39888	5480.00	63.378399	3.8590431	5720.00	68.655393	4.623753
5250.00	61.552	4.3971032	5490.00	61.297759	3.661098	5730.00	69.17327	4.533598
5260.00	61.402	4.2261205	5500.00	60.402868	3.5756854	5740.00	70.998718	4.5472397
5270.00	58.786	3.9737081	5510.00	60.788615	3.6180303	5750.00	68.5801	4.2250122
5280.00	55.117	3.5566959	5520.00	64.485511	3.9392959	5760.00	64.78662	4.1426505
5290.00	54.892	3.3263134	5530.00	67.511329	4.1747212	5770.00	65.495024	4.2954483
5300.00	54.26	3.2385111	5540.00	67.686991	4.1271454	5780.00	68.274422	4.4938744
5310.00	52.721	3.1169738	5550.00	65.54326	3.9955136	5790.00	67.957224	4.5231614
5320.00	53.149	3.2311543	5560.00	67.253607	3.9934243	5800.00	64.089139	4.1769795
5330.00	52.506	3.2426638	5570.00	72.305208	4.3159598	5810.00	63.853844	4.2234254
5340.00	51.354	3.2554679	5580.00	73.711484	4.3721522	5820.00	66.240076	4.410373
5350.00	52.785	3.4558951	5590.00	71.003777	4.007322	5830.00	67.929334	4.5211208
5360.00	55.456	3.70128	5600.00	70.239603	4.0832296	5840.00	67.256559	4.4694119
5370.00	56.018	3.7532975	5610.00	69.341698	4.1192438	5850.00	65.48684	4.3001759
5380.00	57.307	3.9552454	5620.00	69.776278	4.1644899			

7号 5G WIFI Antenna 3

Freq	Effi	Max	Freq	Effi	Max	Freq	Effi	Max
(MHz)	(%)	(dB)	(MHz)	(%)	(dB)	(MHz)	(%)	(dB)
5150.00	72.749	5.3207141	5390.00	72.780709	7.7704171	5630.00	79.073778	6.8037123
5160.00	69.203	5.0584665	5400.00	73.586457	7.9617576	5640.00	80.098443	7.0182181
5170.00	65.786	4.6686826	5410.00	75.66565	8.214352	5650.00	74.93457	6.7779072
5180.00	69.397	4.9130948	5420.00	78.365603	8.4797238	5660.00	70.936701	6.6321154
5190.00	72.642	5.2493167	5430.00	77.396365	8.5762026	5670.00	74.212596	6.7406823
5200.00	72.23	5.1869885	5440.00	74.385777	8.5021658	5680.00	79.285171	7.0534849
5210.00	73.057	5.410578	5450.00	71.271687	8.302371	5690.00	77.654051	6.9428787
5220.00	71.904	5.5213737	5460.00	72.576585	8.3103698	5700.00	73.779535	6.7403198
5230.00	71.718	5.6068453	5470.00	74.402511	8.4610485	5710.00	73.375997	6.8053432
5240.00	71.319	5.5997872	5480.00	71.910536	8.2741186	5720.00	74.469699	6.8882164
5250.00	71.867	5.7536061	5490.00	68.711345	7.8865252	5730.00	75.830029	7.0051732
5260.00	71.991	5.8661004	5500.00	67.559991	7.6863641	5740.00	78.665409	7.1687807
5270.00	69.108	5.676474	5510.00	68.528253	7.5820332	5750.00	76.55335	7.0250549
5280.00	65.305	5.5248493	5520.00	71.86922	7.6319298	5760.00	72.242282	6.8798327
5290.00	65.324	5.5622308	5530.00	75.394388	7.6142128	5770.00	73.639376	6.9755296
5300.00	66.188	5.7139741	5540.00	74.565131	7.2504557	5780.00	78.339955	7.2525079
5310.00	65.483	5.8389064	5550.00	71.979868	6.9083249	5790.00	78.023319	7.2981067
5320.00	66.017	5.9106924	5560.00	74.453809	6.8451239	5800.00	74.103921	7.0203445
5330.00	66.196	6.1272467	5570.00	79.145038	6.9252247	5810.00	72.977073	6.9170611
5340.00	65.458	6.2853252	5580.00	81.294715	6.9061137	5820.00	75.044303	6.9604375
5350.00	67.215	6.5835833	5590.00	77.956697	6.629232	5830.00	76.671363	6.8888946
5360.00	70.375	6.9783468	5600.00	77.192423	6.5861327	5840.00	75.709427	6.6971192
5370.00	70.373	7.1487988	5610.00	76.629405	6.6210069	5850.00	73.440445	6.375488
5380.00	71.152	7.4248941	5620.00	75.894185	6.5148539			

8号 5G WIFI Antenna 4

Freq	Effi	Max	Freq	Effi	Max	Freq	Effi	Max
(MHz)	(%)	(dB)	(MHz)	(%)	(dB)	(MHz)	(%)	(dB)

5925.00	57.279	5.6166283	6335.00	64.591913	5.6672297	6745.00	48.07937	4.8689817
5935.00	56.451	5.536341	6345.00	63.779448	5.5140514	6755.00	48.557434	4.8284196
5945.00	55.856	5.4726378	6355.00	61.904028	5.4941584	6765.00	49.857395	4.9105311
5955.00	55.091	5.3728982	6365.00	62.032283	5.6408025	6775.00	53.354893	5.1724694
5965.00	56.239	5.4344146	6375.00	62.651198	5.8419373	6785.00	54.035509	5.2386161
5975.00	57.927	5.5561388	6385.00	59.55123	5.7748353	6795.00	51.807122	5.0823465
5985.00	58.366	5.5032674	6395.00	55.887113	5.6816389	6805.00	51.254363	5.0583513
5995.00	58.542	5.4064198	6405.00	55.405052	5.8650871	6815.00	52.334497	5.0817627
6005.00	58.073	5.2752478	6415.00	54.963767	5.9660263	6825.00	53.44031	5.0965736
6015.00	59.174	5.1870057	6425.00	53.264326	5.9121005	6835.00	51.438823	4.9394543
6025.00	62.078	5.2614983	6435.00	51.133957	5.8066112	6845.00	49.688703	4.7540073
6035.00	62.979	5.2012988	6445.00	49.795807	5.6864646	6855.00	49.852071	4.6725605
6045.00	62.796	5.0897414	6455.00	50.406243	5.7790741	6865.00	49.086823	4.4385409
6055.00	63.283	5.2519555	6465.00	49.749357	5.7998166	6875.00	49.489629	4.3694489
6065.00	62.671	5.4627061	6475.00	48.908732	5.6426139	6885.00	50.97598	4.4638275
6075.00	64.313	5.7725602	6485.00	49.181013	5.5708155	6895.00	50.817033	4.4316288
6085.00	66.206	6.0815678	6495.00	48.663726	5.5035725	6905.00	51.191405	4.4209365
6095.00	65.548	6.2447947	6505.00	48.567402	5.4855022	6915.00	51.44925	4.3668206
6105.00	64.682	6.2737956	6515.00	49.885332	5.6908096	6925.00	52.829394	4.356979
6115.00	64.574	6.336806	6525.00	50.504014	5.7725886	6935.00	55.766882	4.4585603
6125.00	65.005	6.4261436	6535.00	50.415567	5.6480132	6945.00	57.317672	4.4918754
6135.00	65.559	6.4425641	6545.00	50.560427	5.6294227	6955.00	57.556814	4.4405097
6145.00	65.648	6.463052	6555.00	49.988386	5.4707743	6965.00	59.321826	4.4758105
6155.00	66.887	6.4509778	6565.00	49.494513	5.4626211	6975.00	60.064331	4.6473686
6165.00	69.565	6.4859002	6575.00	50.910348	5.5719001	6985.00	62.512647	4.9508439
6175.00	69.265	6.4011094	6585.00	50.636766	5.3840432	6995.00	65.617645	5.2111947
6185.00	69.835	6.3414047	6595.00	49.310812	5.1464421	7005.00	64.000552	5.1077003
6195.00	70.791	6.2554357	6605.00	50.494832	5.2342139	7015.00	60.11381	4.9157873
6205.00	70.208	6.0937911	6615.00	51.464897	5.2845615	7025.00	58.994337	4.9226273
6215.00	70.851	6.1406283	6625.00	50.677075	5.1368819	7035.00	59.084122	4.9801676
6225.00	70.675	6.1358832	6635.00	50.281647	5.0355222	7045.00	58.798048	4.9609149
6235.00	68.235	5.920777	6645.00	48.882131	4.781578	7055.00	57.425647	4.8736728
6245.00	67.245	5.834054	6655.00	48.647504	4.6689878	7065.00	55.059326	4.7374239
6255.00	67.036	5.7820339	6665.00	49.158376	4.6030455	7075.00	53.572639	4.5787647
6265.00	66.209	5.7429657	6675.00	46.704922	4.4803536	7085.00	53.121388	4.480562
6275.00	64.206	5.6591889	6685.00	44.55796	4.4039106	7095.00	53.131927	4.4084459
6285.00	63.082	5.5934671	6695.00	43.813495	4.4112739	7105.00	53.468618	4.403513
6295.00	64.035	5.6366194	6705.00	43.815727	4.3886158	7115.00	53.277301	4.3907249
6305.00	65.034	5.6857818	6715.00	46.422821	4.6533769	7125.00	51.757196	4.2255771
6315.00	64.101	5.6246053	6725.00	48.241412	4.8771708			
6325.00	63.745	5.6565154	6735.00	47.5102	4.8290588			

9号 6G WIFI Antenna 1								
Freq	Effi	Max	Freq	Effi	Max	Freq	Effi	Max
(MHz)	(%)	(dB)	(MHz)	(%)	(dB)	(MHz)	(%)	(dB)
5925.00	51.061	2.923391	6335.00	49.998782	3.3444991	6745.00	53.35056	4.0304287
5935.00	50.679	2.9085804	6345.00	50.904074	3.4159925	6755.00	54.217193	4.1235393
5945.00	50.113	2.8804687	6355.00	49.102474	3.3152406	6765.00	55.801261	4.2207585
5955.00	50.386	2.8954815	6365.00	49.748462	3.3884364	6775.00	59.704037	4.5224991
5965.00	51.745	3.0268793	6375.00	50.952279	3.5247794	6785.00	60.511913	4.638518
5975.00	53.086	3.1503516	6385.00	48.5371	3.3000003	6795.00	57.395354	4.383096
5985.00	53.884	3.1885648	6395.00	47.189422	3.2510143	6805.00	56.645512	4.3333305
5995.00	53.542	3.1709268	6405.00	47.464239	3.3462915	6815.00	58.831559	4.5252531
6005.00	52.984	3.3549784	6415.00	46.954161	3.3323593	6825.00	60.902325	4.6697331
6015.00	54.529	3.6186289	6425.00	46.042404	3.4098463	6835.00	58.931804	4.5663755
6025.00	55.826	3.8636847	6435.00	44.931368	3.4643679	6845.00	57.280677	4.4307881

6035.00	55.507	3.9843025	6445.00	45.341656	3.5146957	6855.00	56.964816	4.3983086
6045.00	54.66	3.9880933	6455.00	47.244766	3.6689966	6865.00	55.999718	4.3707409
6055.00	53.668	3.9769066	6465.00	47.109156	3.7465792	6875.00	55.911682	4.3333517
6065.00	52.744	3.9031886	6475.00	47.677522	3.7844231	6885.00	56.736915	4.3832688
6075.00	52.961	3.8597046	6485.00	49.81648	3.8683646	6895.00	55.784484	4.301179
6085.00	52.67	3.770448	6495.00	50.837022	3.8324014	6905.00	55.422413	4.2953522
6095.00	51.777	3.5230662	6505.00	52.573494	3.8344795	6915.00	54.967029	4.2788197
6105.00	50.466	3.2358512	6515.00	55.137937	4.0297275	6925.00	56.253733	4.4150357
6115.00	50.153	3.2515963	6525.00	55.797946	4.0458731	6935.00	58.964419	4.6500738
6125.00	51.374	3.4930794	6535.00	56.737126	3.967316	6945.00	60.529134	4.8572485
6135.00	51.047	3.5549532	6545.00	57.613292	3.9150011	6955.00	61.127005	5.0107842
6145.00	50.482	3.627347	6555.00	58.434051	3.8472224	6965.00	62.873275	5.2376897
6155.00	51.351	3.7082624	6565.00	59.537855	3.988629	6975.00	63.954635	5.4195982
6165.00	51.939	3.7301773	6575.00	59.932882	4.1522669	6985.00	66.967649	5.7392061
6175.00	51.564	3.6900492	6585.00	59.103842	4.1021464	6995.00	70.933842	6.0627178
6185.00	51.613	3.6452501	6595.00	58.257196	4.0763273	7005.00	70.211369	6.075316
6195.00	50.937	3.5090716	6605.00	58.687933	4.0948831	7015.00	66.917932	5.8697577
6205.00	50.049	3.3194072	6615.00	59.872174	4.209544	7025.00	66.095409	5.8164483
6215.00	49.216	3.1882862	6625.00	58.590261	4.1264526	7035.00	66.863645	5.8672168
6225.00	49.207	3.1955035	6635.00	56.676609	3.9863915	7045.00	67.507287	5.9099476
6235.00	48.182	3.0171101	6645.00	55.624261	3.8800509	7055.00	66.272581	5.8324681
6245.00	45.987	2.7126085	6655.00	55.686723	3.8212401	7065.00	63.9284	5.6702495
6255.00	45.594	2.690822	6665.00	56.309455	3.9063513	7075.00	62.429047	5.5663274
6265.00	45.222	2.6403397	6675.00	54.154396	3.7281035	7085.00	61.940469	5.5417689
6275.00	44.124	2.6546503	6685.00	51.05407	3.485748	7095.00	63.106286	5.6324663
6285.00	45.109	2.7809038	6695.00	49.340488	3.39417	7105.00	63.738535	5.6766313
6295.00	46.542	2.9434683	6705.00	49.989962	3.5298767	7115.00	62.729822	5.6036066
6305.00	47.527	3.1011006	6715.00	52.376891	3.7695812	7125.00	60.86605	5.4924235
6315.00	48.031	3.2216166	6725.00	54.010871	3.9642168			
6325.00	48.356	3.2988487	6735.00	53.390685	4.0004454			
10号 6G WIFI Antenna 2								
Freq	Effi	Max	Freq	Effi	Max	Freq	Effi	Max
(MHz)	(%)	(dB)	(MHz)	(%)	(dB)	(MHz)	(%)	(dB)
5925.00	72.313	4.5559905	6335.00	67.577374	5.6752829	6745.00	55.881141	4.3962772
5935.00	70.659	4.5093373	6345.00	67.538639	5.6184765	6755.00	55.93725	4.2802207
5945.00	69.707	4.5434945	6355.00	65.875046	5.477454	6765.00	57.220558	4.2725999
5955.00	68.707	4.5381812	6365.00	66.657155	5.4806941	6775.00	60.311017	4.4604561
5965.00	69.297	4.5638015	6375.00	68.014296	5.5563232	6785.00	60.933526	4.5802756
5975.00	70.788	4.6843245	6385.00	65.166082	5.3961166	6795.00	57.619234	4.3593628
5985.00	70.858	4.7651274	6395.00	61.656926	5.182033	6805.00	55.561674	4.2365539
5995.00	70.154	4.7438611	6405.00	61.466675	5.2170089	6815.00	56.117804	4.3044767
6005.00	69.393	4.7806843	6415.00	61.376299	5.2675387	6825.00	56.845589	4.3015595
6015.00	69.968	4.9714074	6425.00	60.007473	5.2543363	6835.00	54.662982	4.0817328
6025.00	71.674	5.2280114	6435.00	58.239794	5.1960072	6845.00	53.185505	3.8291661
6035.00	71.89	5.3937509	6445.00	57.545675	5.1822777	6855.00	52.67119	3.6823365
6045.00	70.442	5.3956119	6455.00	59.150867	5.3443684	6865.00	50.916582	3.4824277
6055.00	70.076	5.5200837	6465.00	59.252368	5.4209556	6875.00	50.294637	3.3451686
6065.00	69.076	5.5413079	6475.00	59.44444	5.5637106	6885.00	50.578681	3.3351486
6075.00	69.536	5.6452754	6485.00	60.905913	5.7641174	6895.00	49.451449	3.2775802
6085.00	70.896	5.7801667	6495.00	61.022333	5.7786716	6905.00	48.770858	3.3161327
6095.00	70.222	5.69844	6505.00	62.00371	5.8648211	6915.00	47.641687	3.3168527
6105.00	69.137	5.6282149	6515.00	64.541503	5.9725789	6925.00	47.962229	3.4591663
6115.00	69.355	5.5645515	6525.00	65.2692	5.9575049	6935.00	50.03029	3.7539304
6125.00	69.582	5.4698376	6535.00	65.625273	5.8506771	6945.00	51.067119	3.9297739
6135.00	68.991	5.3327071	6545.00	65.769178	5.6701511	6955.00	51.191693	3.9772842

6145.00	68.763	5.1569327	6555.00	65.204038	5.4186857	6965.00	52.392519	4.0689372
6155.00	69.343	5.0828021	6565.00	65.770364	5.3928886	6975.00	52.334085	4.0784095
6165.00	71.283	5.1749639	6575.00	67.076801	5.3437685	6985.00	54.112577	4.2432779
6175.00	70.969	5.0883983	6585.00	66.000435	5.4815874	6995.00	56.992801	4.4047756
6185.00	70.298	4.9795397	6595.00	64.257716	5.3433574	7005.00	56.168256	4.387908
6195.00	70.338	4.956623	6605.00	64.496221	5.3494966	7015.00	53.639445	4.3341244
6205.00	69.614	4.8895115	6615.00	65.40314	5.3316634	7025.00	53.083688	4.4408733
6215.00	69.252	4.9747509	6625.00	64.521249	5.3630791	7035.00	53.524988	4.6438622
6225.00	69.112	5.0472485	6635.00	62.581204	5.2562606	7045.00	54.254691	4.7932219
6235.00	66.337	4.9146828	6645.00	60.61746	5.0972496	7055.00	53.797582	4.8310568
6245.00	64.012	4.8630789	6655.00	60.561581	5.1060073	7065.00	52.524224	4.825681
6255.00	63.931	4.9601431	6665.00	60.938518	5.2252407	7075.00	52.084949	4.8451068
6265.00	63.487	5.0570952	6675.00	59.063403	5.0361463	7085.00	51.814518	4.8732834
6275.00	62.056	5.0926784	6685.00	56.147249	4.6415682	7095.00	52.642107	4.9697898
6285.00	62.335	5.1822601	6695.00	53.931081	4.5705647	7105.00	54.455129	5.1887553
6295.00	63.747	5.3053782	6705.00	53.395033	4.4943756	7115.00	54.919481	5.3065139
6305.00	65.326	5.4356803	6715.00	55.231028	4.5188849	7125.00	54.214025	5.2961503
6315.00	65.72	5.4975454	6725.00	56.553237	4.5385579			
6325.00	66.004	5.5841284	6735.00	56.141132	4.4632691			
11号 6G WIFI Antenna 3								
Freq	Effi	Max	Freq	Effi	Max	Freq	Effi	Max
(MHz)	(%)	(dB)	(MHz)	(%)	(dB)	(MHz)	(%)	(dB)
5925.00	57.697	4.2830403	6335.00	55.171351	5.5586998	6745.00	59.008861	5.2200626
5935.00	57.08	4.2270332	6345.00	55.818812	5.5402972	6755.00	59.640284	5.2832474
5945.00	56.284	4.0499646	6355.00	54.66217	5.4567771	6765.00	61.813603	5.4357375
5955.00	56.506	3.9703391	6365.00	54.545336	5.3991168	6775.00	65.9331	5.721109
5965.00	58.005	3.8935065	6375.00	55.353829	5.4364426	6785.00	66.860785	5.836187
5975.00	59.389	4.0059454	6385.00	52.23033	5.1311598	6795.00	64.14881	5.6813047
5985.00	60.16	4.1309293	6395.00	49.450751	4.9389697	6805.00	62.50783	5.5827614
5995.00	59.747	4.2162351	6405.00	50.135639	4.9989093	6815.00	63.62748	5.6876038
6005.00	58.965	4.2413333	6415.00	49.746881	4.9699969	6825.00	64.679762	5.790545
6015.00	60.737	4.4017192	6425.00	48.151709	4.8448477	6835.00	61.50044	5.6071058
6025.00	62.524	4.5501064	6435.00	47.063275	4.7760374	6845.00	59.870336	5.5999375
6035.00	62.192	4.5254935	6445.00	46.352285	4.7329096	6855.00	59.918392	5.6876539
6045.00	61.504	4.4797012	6455.00	47.638218	4.716706	6865.00	58.60672	5.5930994
6055.00	60.564	4.3985268	6465.00	47.843467	4.728608	6875.00	58.30846	5.50208
6065.00	59.534	4.3041669	6475.00	47.138334	4.6729748	6885.00	58.673073	5.4092208
6075.00	60.54	4.3440659	6485.00	48.693888	4.7348387	6895.00	57.367435	5.1077048
6085.00	60.67	4.3662282	6495.00	49.292998	4.6674823	6905.00	57.059043	4.9401264
6095.00	59.561	4.2880531	6505.00	49.852851	4.5266183	6915.00	56.320472	4.8532626
6105.00	58.223	4.2494601	6515.00	53.259284	4.7629283	6925.00	57.024032	4.8968408
6115.00	57.386	4.252408	6525.00	53.921774	4.7801645	6935.00	59.406809	5.0677807
6125.00	58.601	4.4292499	6535.00	53.754275	4.6320318	6945.00	60.570508	5.1541486
6135.00	58.97	4.5918403	6545.00	54.72501	4.5661198	6955.00	61.088102	5.1364646
6145.00	58.262	4.6324533	6555.00	54.227699	4.4328518	6965.00	62.973496	5.202277
6155.00	59.591	4.8665182	6565.00	55.211254	4.5954384	6975.00	63.62102	5.2401137
6165.00	60.554	5.0528837	6575.00	57.654174	4.8025251	6985.00	65.826105	5.4085836
6175.00	59.621	5.0742496	6585.00	56.985303	4.7600704	6995.00	69.188011	5.6704798
6185.00	60.317	5.231681	6595.00	56.810454	4.7789991	7005.00	68.255583	5.5981778
6195.00	59.668	5.330526	6605.00	57.965504	4.9065716	7015.00	65.275777	5.4489408
6205.00	58.121	5.3911499	6615.00	58.316854	4.958467	7025.00	65.015264	5.4182026
6215.00	57.517	5.4816929	6625.00	58.545936	5.0073035	7035.00	65.89912	5.4366635
6225.00	57	5.5583554	6635.00	57.534319	4.9772173	7045.00	66.77042	5.4495023
6235.00	55.885	5.5414645	6645.00	55.843605	4.9127117	7055.00	65.972044	5.3666418
6245.00	54.329	5.4937011	6655.00	56.64129	5.0583082	7065.00	63.798971	5.2042628

