深圳市玛雅天线设备有限公司

X2天线增益报告

Antenna Design And Test Report

报告调试版本：V1.0

报告日期：2022年11月30日星期三

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项目概述

主天线设计频段: main antenna design spectrum	4G

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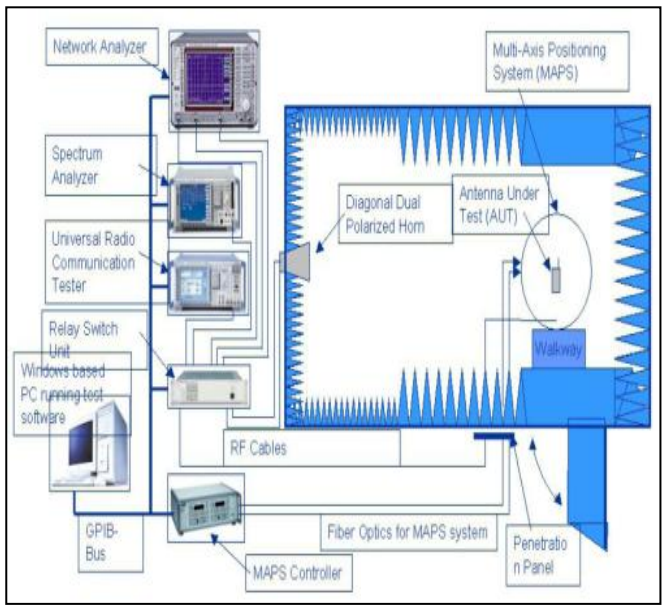
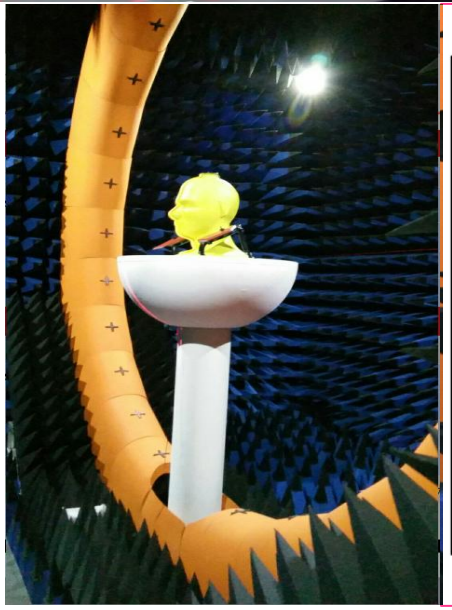
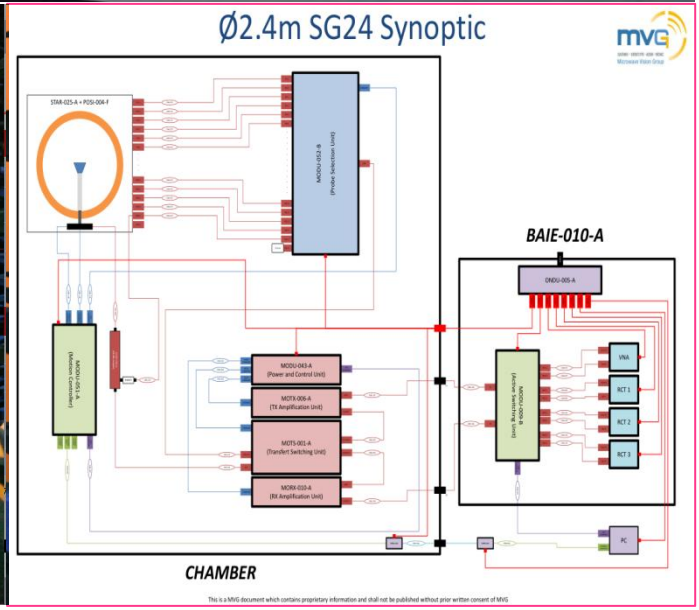
Test Environment

测试环境



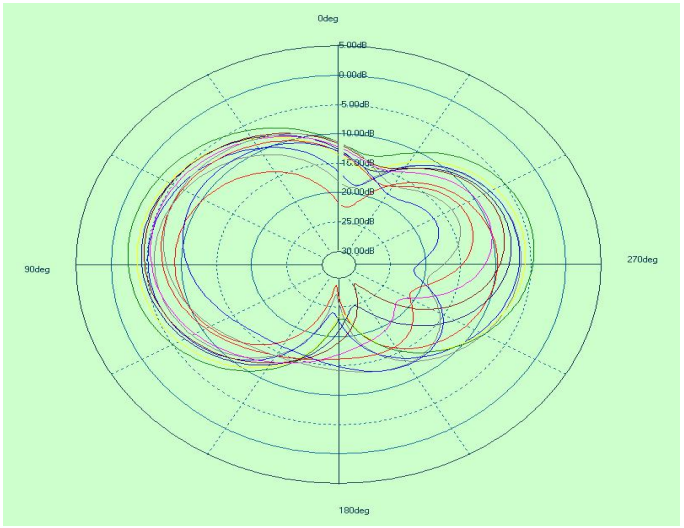


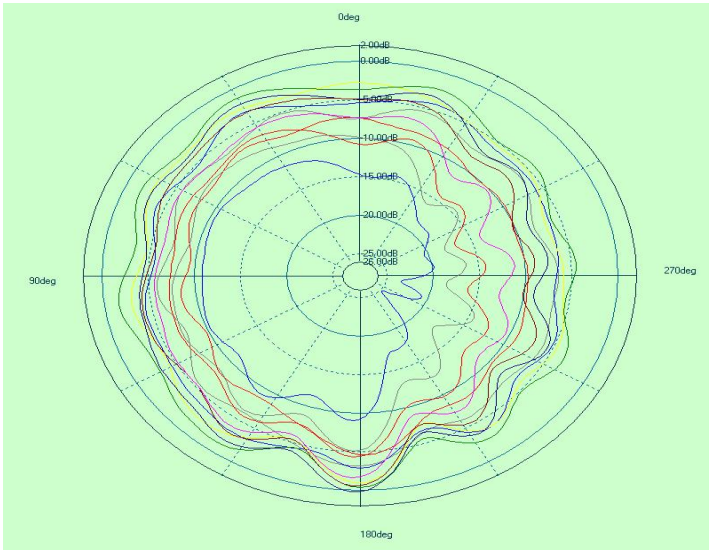


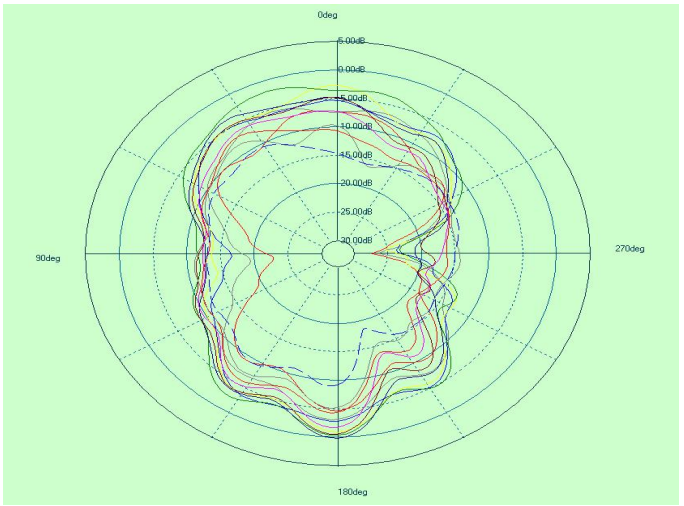
3座远场3D全电波微波暗室实验室系统，1座MVG SG24LT（Satmio）近场3D微波暗室实验室系统（与国家相关实验室同步）

无源报告

Frequency	Gain . dB
6.17E+08	-4.68949
6.51E+08	-3.15676
6.86E+08	-2.93003
7.2E+08	-1.03089
7.54E+08	-0.45289
7.89E+08	0.13198
8.23E+08	-0.60404
8.57E+08	-1.64582
8.91E+08	-4.29945
9.26E+08	-4.91519
9.6E+08	-7.22659



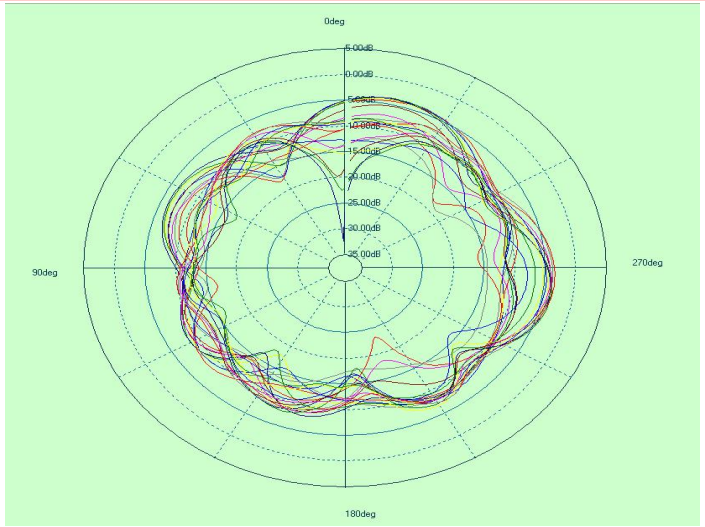


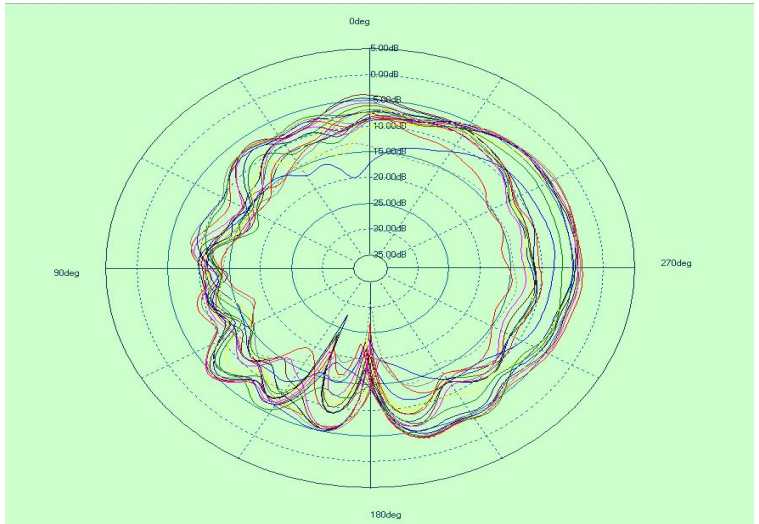


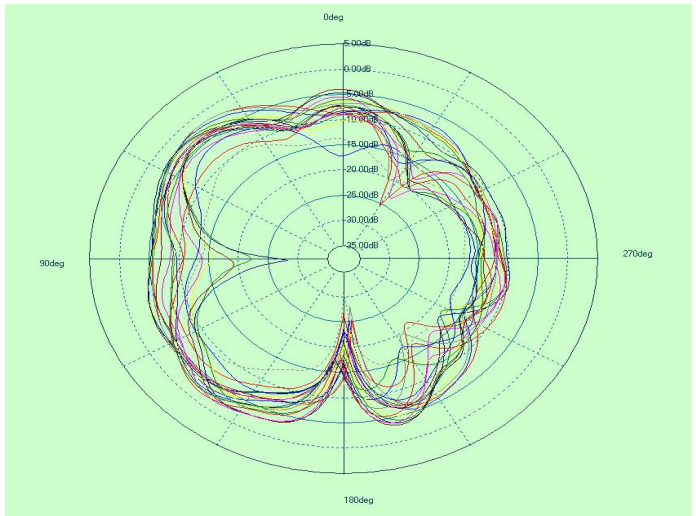
无源报告 测量仪器：Agilent Technologies E5071B 300kHz-8.5GHz ENA Series Network Analyzer 暗室系统：MVG SG24LT（Satmio）

无源报告

Frequency	Gain . dB
1.71E+09	-1.86637
1.76E+09	-1.76639
1.81E+09	-0.91117
1.86E+09	-0.72999
1.91E+09	-1.23631
1.96E+09	-0.79093
2.01E+09	-1.11053
2.06E+09	-1.35584
2.11E+09	-3.56928
2.16E+09	-7.75557
2.21E+09	-5.45131
2.25E+09	-3.41589
2.3E+09	-3.07398
2.35E+09	-2.3277
2.4E+09	-2.18913
2.45E+09	-1.7047
2.5E+09	-1.86409
2.55E+09	-2.11573
2.6E+09	-2.79296
2.65E+09	-2.48057
2.7E+09	-2.4045



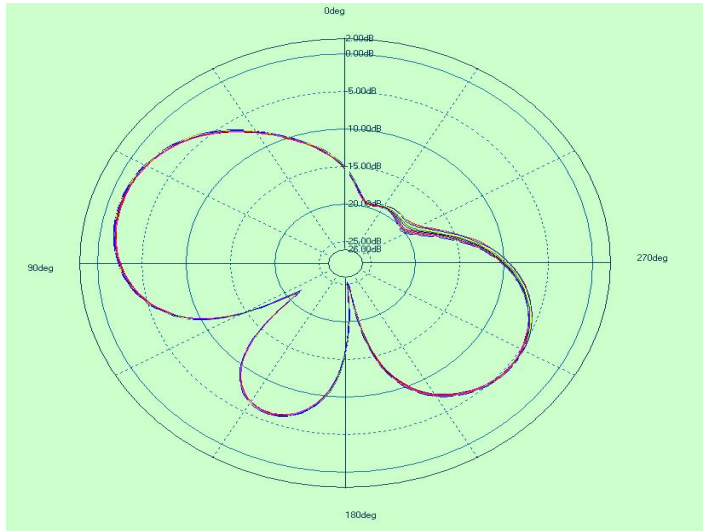


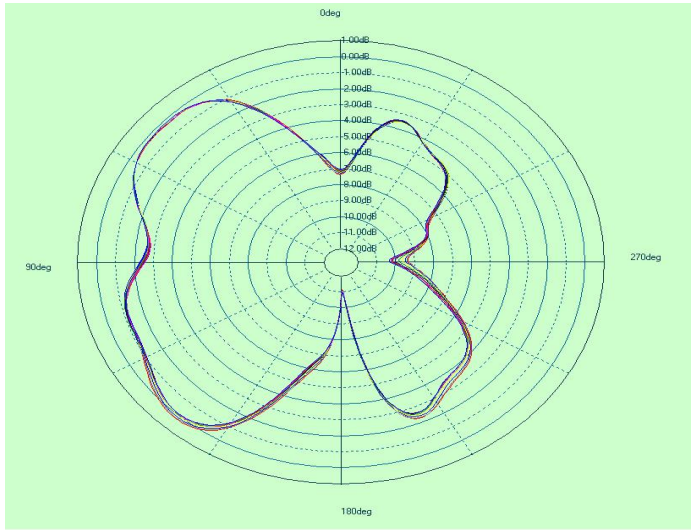


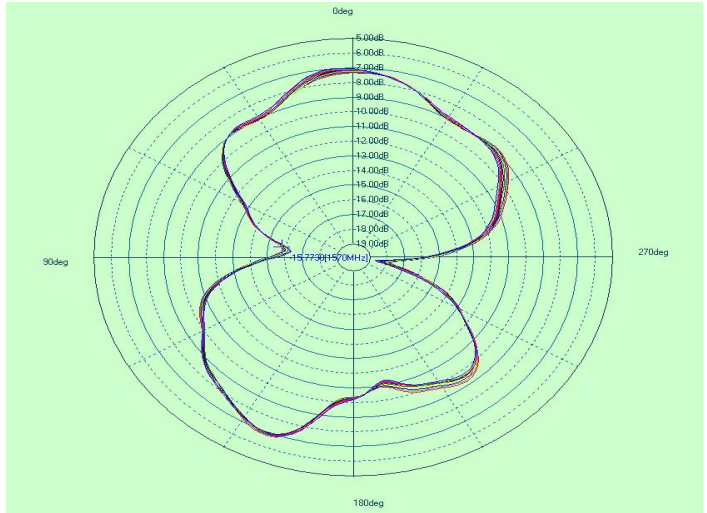
无源报告 测量仪器：Agilent Technologies E5071B 300kHz-8.5GHz ENA Series Network Analyzer 暗室系统：MVG SG24LT（Satmio）

无源报告

Frequency	Gain . dB
1.57E+09	0.201725
1.57E+09	0.154979
1.57E+09	0.074104
1.57E+09	-0.01267
1.57E+09	-0.07537
1.58E+09	-0.07443
1.58E+09	-0.07761
1.58E+09	-0.07439
1.58E+09	-0.07075
1.58E+09	-0.05609
1.58E+09	-0.0351



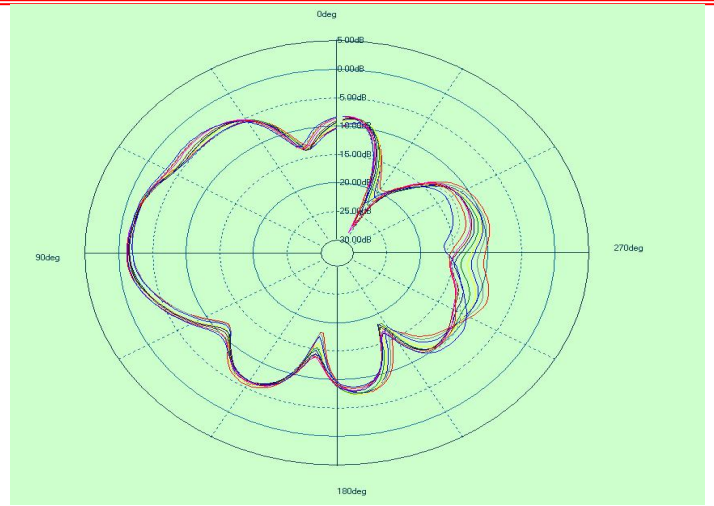


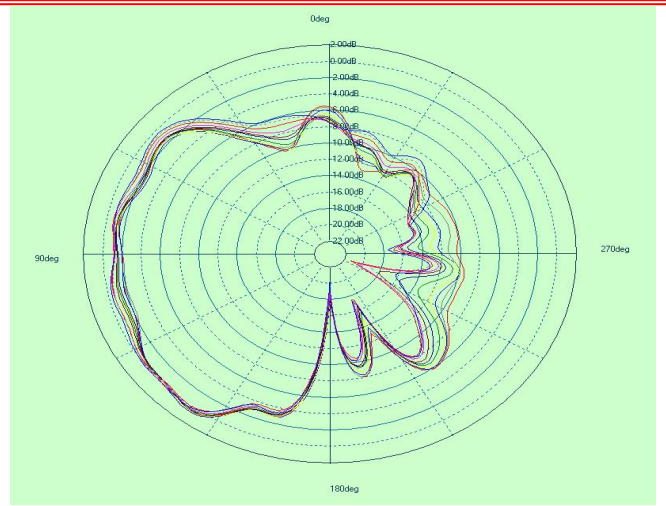


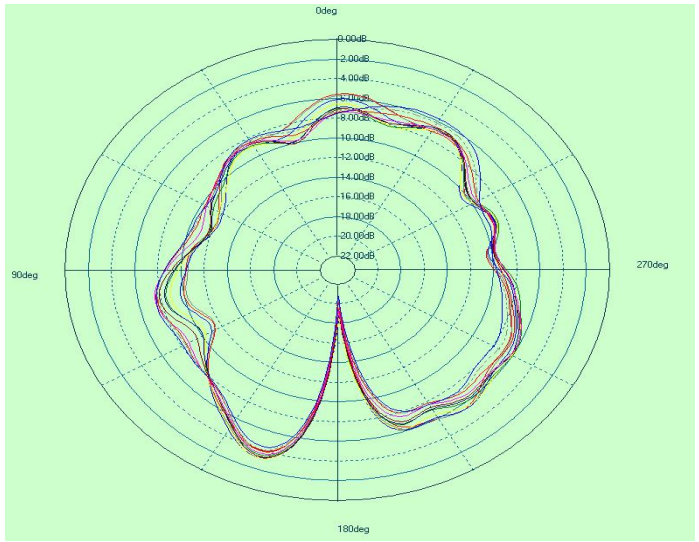
无源报告 测量仪器：Agilent Technologies E5071B 300kHz-8.5GHz ENA Series Network Analyzer 暗室系统：MVG SG24LT（Satmio）

无源报告

Frequency	Gain . dB
2.4E+09	0.854832
2.41E+09	0.861677
2.42E+09	0.980501
2.43E+09	0.997184
2.44E+09	0.781363
2.45E+09	0.92593
2.46E+09	0.940087
2.47E+09	0.679976
2.48E+09	0.354525
2.49E+09	0.360233
2.5E+09	0.43258



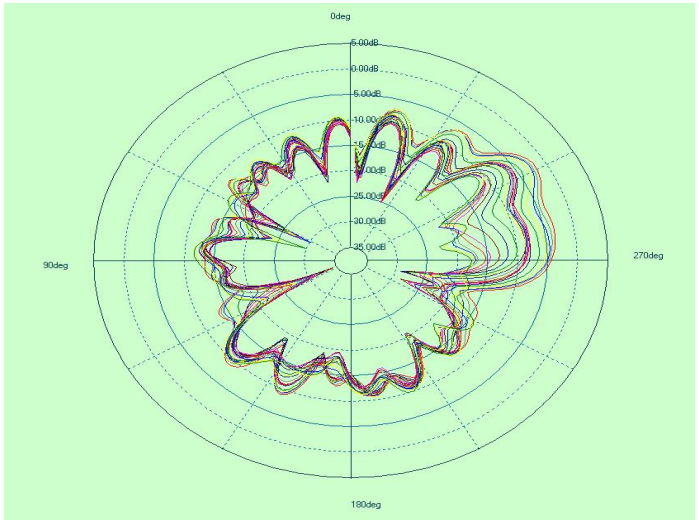


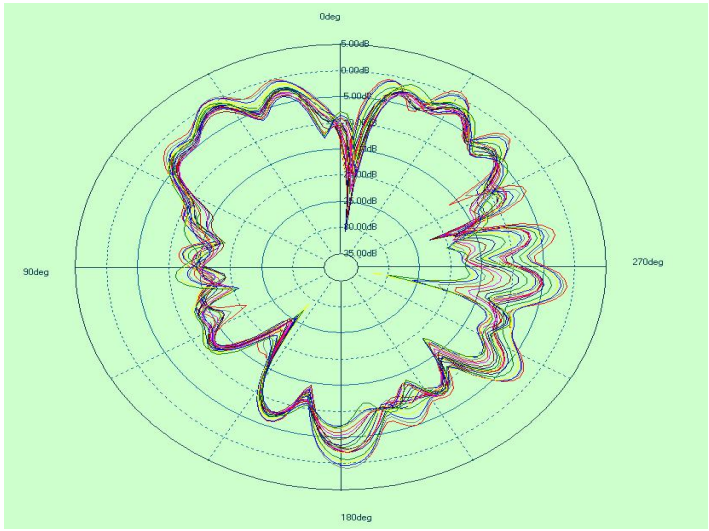


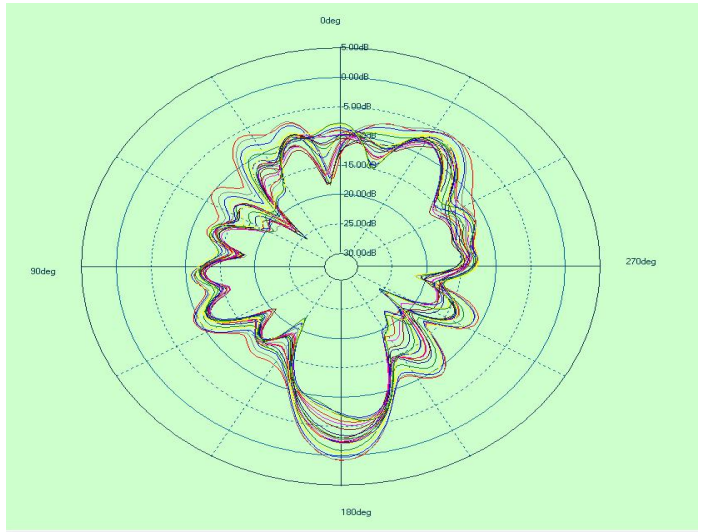
无源报告 测量仪器：Agilent Technologies E5071B 300kHz-8.5GHz ENA Series Network Analyzer 暗室系统：MVG SG24LT（Satmio）

无源报告

Frequency	Gain . dB
5.2E+09	2.351398
5.23E+09	2.074028
5.26E+09	1.896057
5.29E+09	1.388938
5.32E+09	0.797866
5.35E+09	-0.07724
5.38E+09	-0.50298
5.41E+09	-0.25163
5.44E+09	0.327278
5.47E+09	0.200656
5.5E+09	0.500156
5.53E+09	1.181132
5.56E+09	0.950841
5.59E+09	0.451896
5.62E+09	0.45608
5.65E+09	0.315889
5.68E+09	-0.01941
5.71E+09	0.159632
5.74E+09	0.489078
5.77E+09	1.067867
5.8E+09	1.226391







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总结

1.以上是天线增益报告。
2.如有疑问，可以电话沟通，谢谢.

Additional Notes

附加说明

01

报告中天线匹配电路是否改动，天线有关的环境处理是否增加，将直接影响天线性能，请仔细确认查看。

02

贵司如有最新试产或更新产品（如软件，**ESD**，物料等）请尽快提供我司进行验证，以确认天线性能是否有变化影响。

03

倘若贵司需要送第三方检测机构复测或客户测试，请务必先与我司进行天线相关测试确认，因主板•装配的一致性，以及天线组装的差异等因素，均可能导致天线参数的偏差。