

OTA TEST REPORT

Report No. NRL-OTA-2024-0056

Applicant	Guangzhou Moli Stage Equipment Co.,Ltd.
Address	501,Building N,No.46 ShangSheng East Street Baiyun District
Telephone	15818155757
Manufacturer	Guangzhou Moli Stage Equipment Co.,Ltd.
Address	501,Building N,No.46 ShangSheng East Street Baiyun District
Telephone	15818155757
Product Name	Par Light
Model	008
Sample Source	Customer delivery
Delivery Date	2024/05/06
Test Date	2024/05/09
Reference Documents	See Appendix A
Testing Content	Passive
Verdict	/
Report Date	2024/05/10

Compiled by
Xu Tao



Reviewed by
Ma Yonglin



Approved by
Shi Yang

(Authorized signatory)



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1. EUT Information

EUT No.	2024-0025-0001
Type	008
IMEI/SN	/
SW Version	/
HW Version	/
Testing Environment	25°C 35%RH

2. Lab Information

Company Name	Core Wireless (Beijing) Communication Technology Co., LTD
Company Address	Room 101, Building 62, Jinghai 3rd Road, No.109, BDA, Beijing, China 100176
Laboratory Address	Room 101, Building 62, Jinghai 3rd Road, No.109, BDA, Beijing, China 100176
Contacts	Shiyang
Telephone	+86-10-67870336
E-mail	shiyang@newradiolab.com

3. Equipments

No.	Name	Model	S/N	Manufacturer	Cal. Date
1	ENA Vector Network Analyzer	E5071C	MY42202610	Agilent	2024/09/26
2	Anechoic Chamber	AMS8500	N/A	ETS-Lindgren	N/A
3	Switch Controller	TS-RSP	100365	R&S	N/A
4	Multi-Device Positioning Controller	2090	00060093	ETS-Lindgren	N/A
5	Diagonal Dual Polarized Horns	3164-04	1009	ETS-Lindgren	N/A
6	EMQuest	V1.16	N/A	ETS-Lindgren	N/A

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4. Test Results

Frequency (MHz)	Efficiency (%)	Gain (dBi)
2412	75.3	3.9
2417	72.2	3.6
2422	75.5	3.8
2427	76.4	3.8
2432	79.3	3.9
2437	81.1	4.0
2442	82.9	4.1
2447	86.6	4.2
2452	85.5	4.1
2457	87.9	4.2
2462	87.2	4.2
2467	87.4	4.1
2472	83.1	3.9

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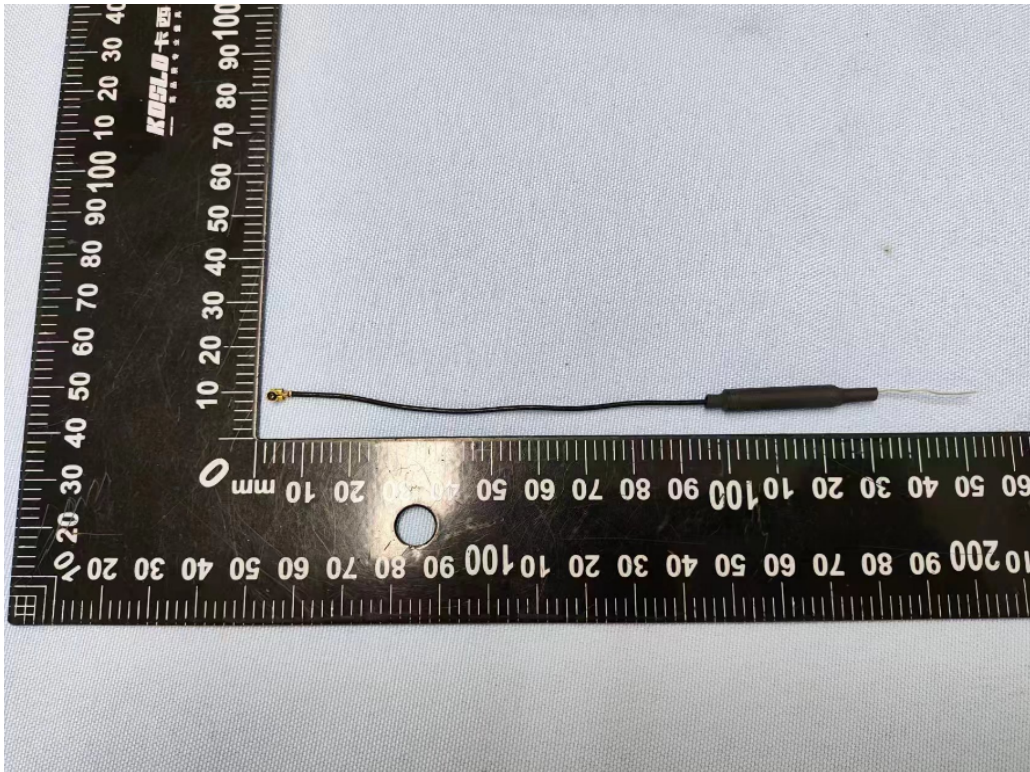
Appendix A: Reference Documents

Reference	Title	Version
IEEE Std 149	IEEE Recommended Practice for Antenna Measurements	2021
GB/T 9410	General specification for antennas used in the mobile communications	2008

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Appendix B: EUT Photographs



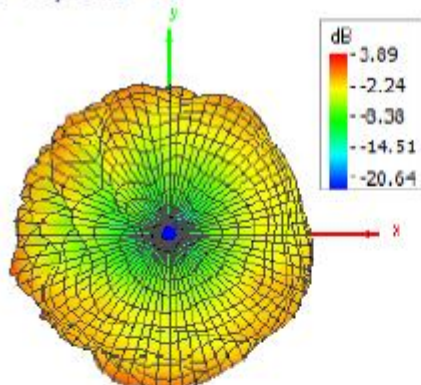
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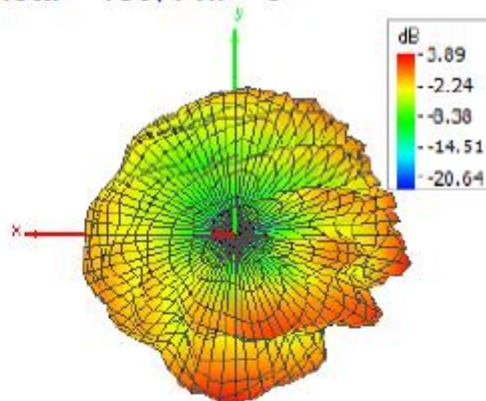
Appendix C: 3D Pattern Plots

2412MHz

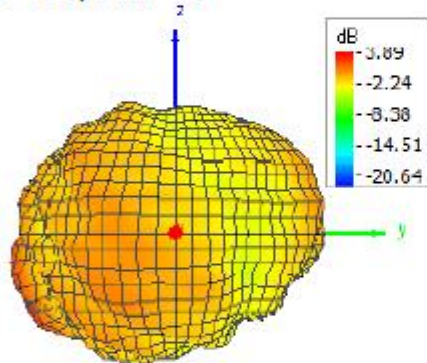
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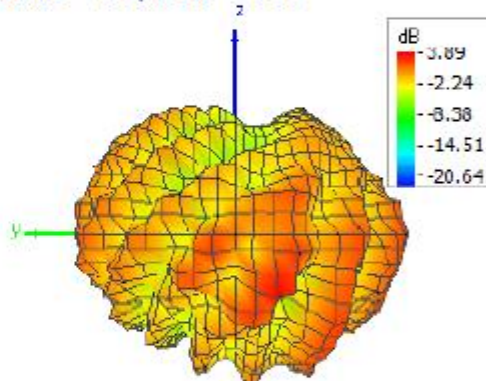
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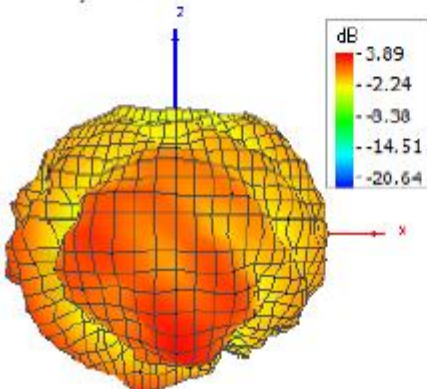
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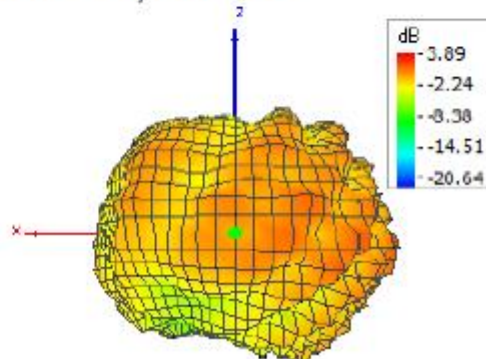
Theta = 90, Phi = 180



Theta = 90, Phi = 270



Theta = 90, Phi = 90

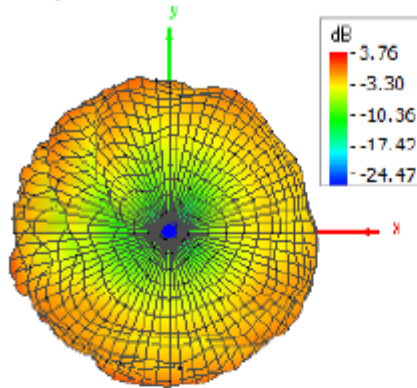


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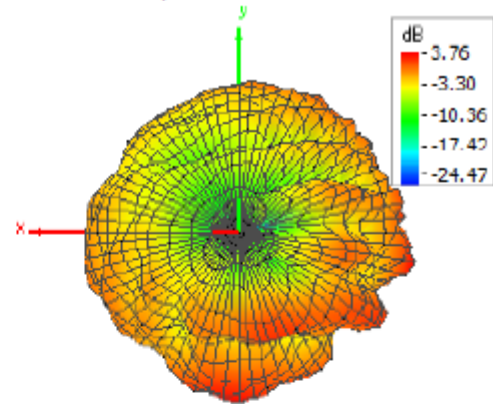
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2422MHz

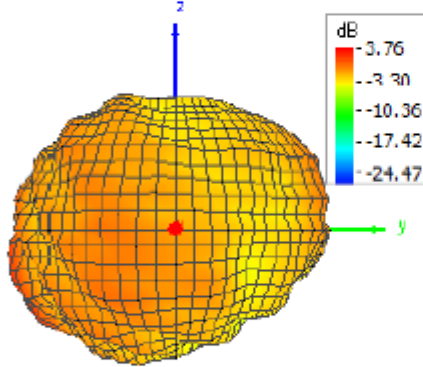
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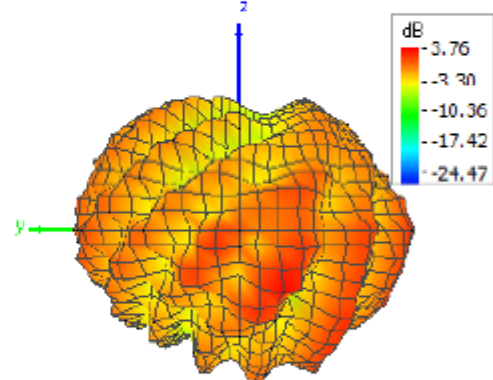
Theta = 180, Phi = 0



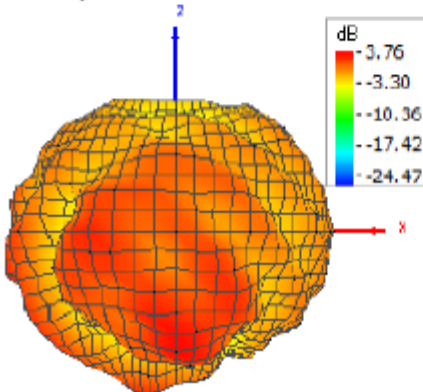
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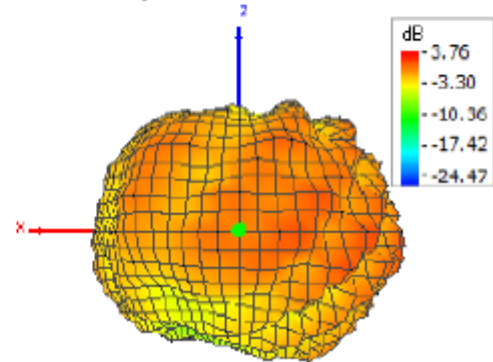
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Theta = 90, Phi = 270



Theta = 90, Phi = 90

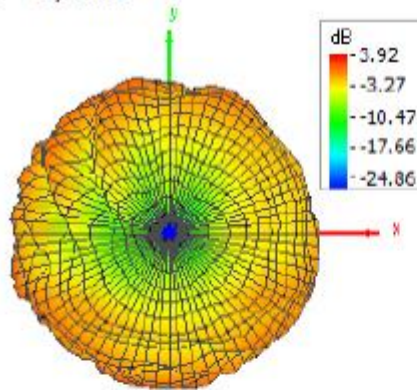


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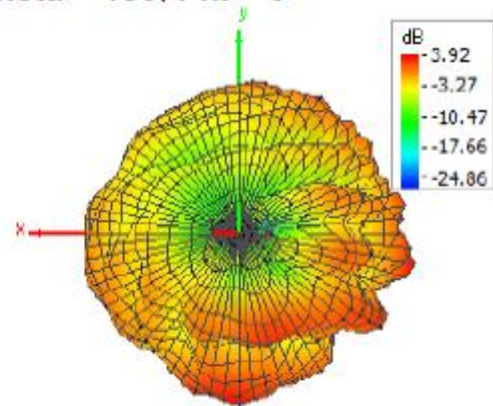
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2432MHz

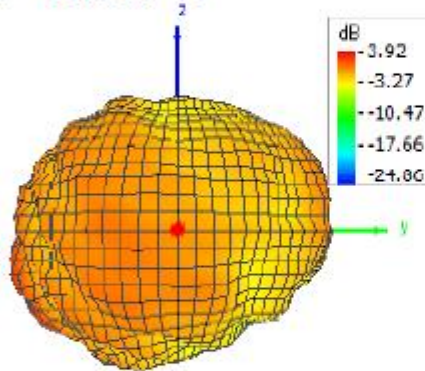
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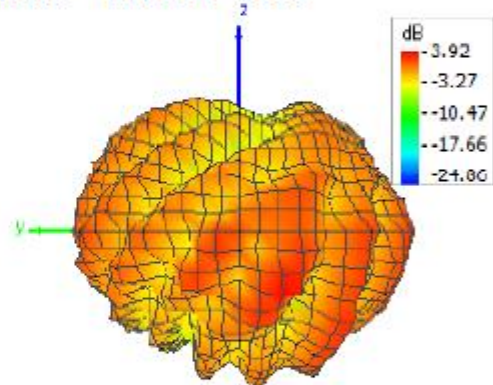
Theta = 180, Phi = 0



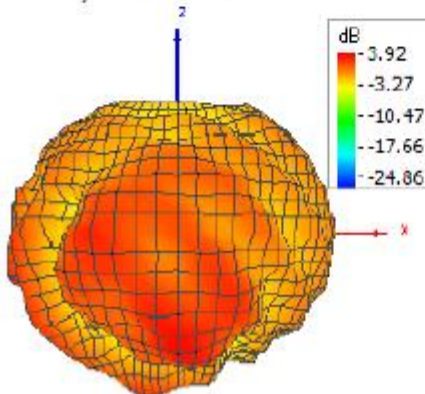
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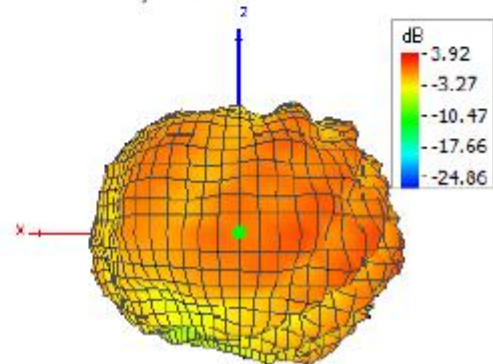
Theta = 90, Phi = 180



Theta = 90, Phi = 270



Theta = 90, Phi = 90

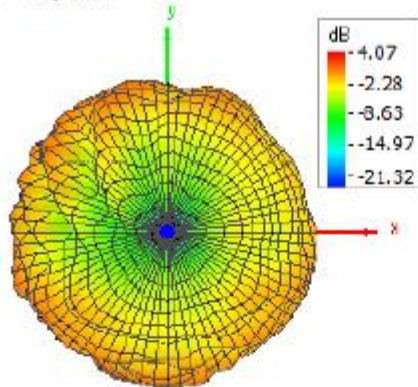


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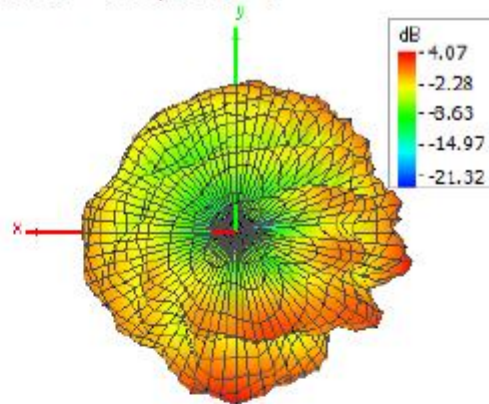
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2442MHz

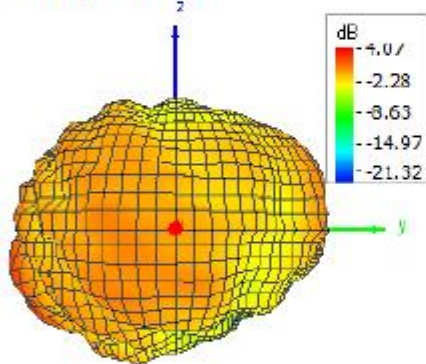
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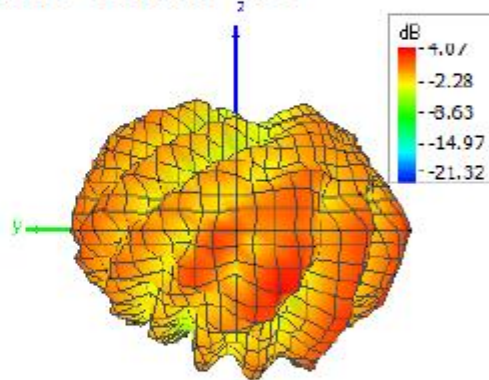
Theta = 180, Phi = 0



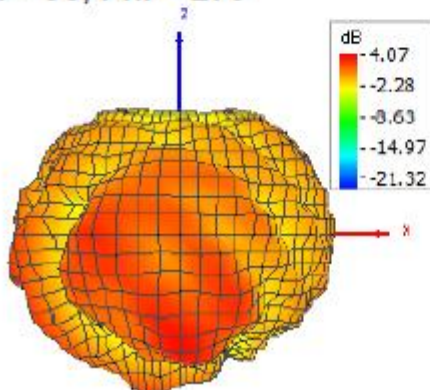
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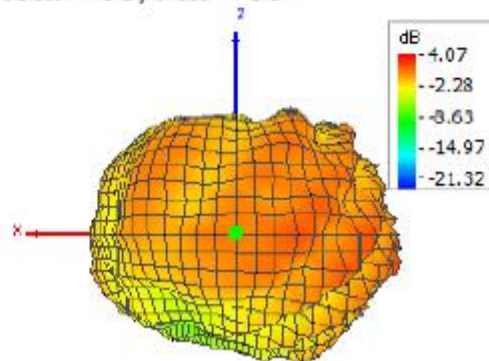
Theta = 90, Phi = 180



Theta = 90, Phi = 270



Theta = 90, Phi = 90

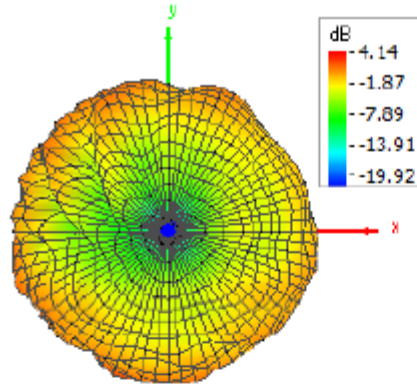


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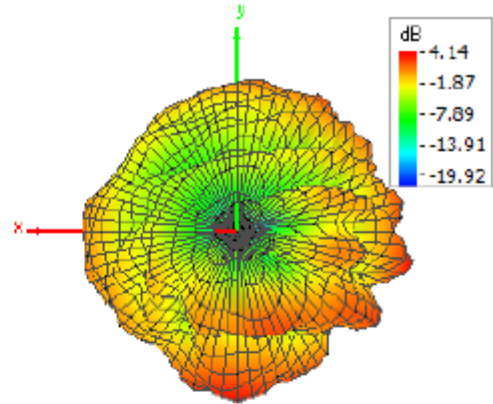
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2452MHz

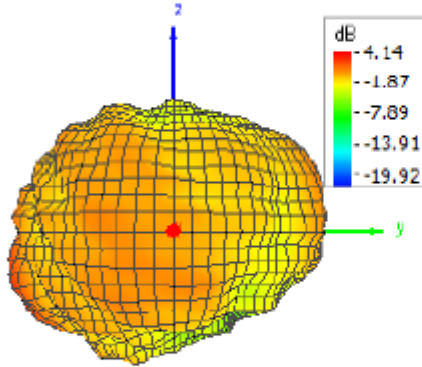
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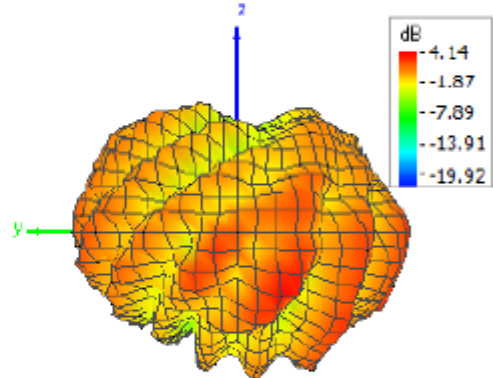
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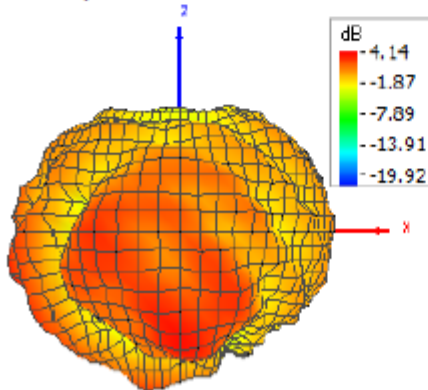
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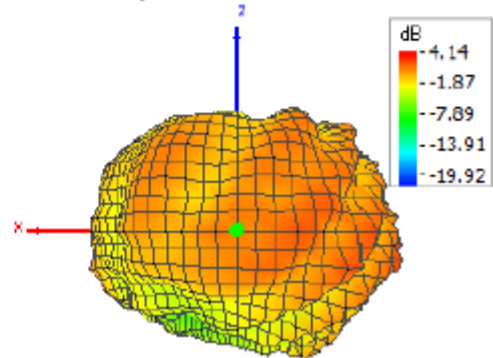
Theta = 90, Phi = 180



Theta = 90, Phi = 270



Theta = 90, Phi = 90

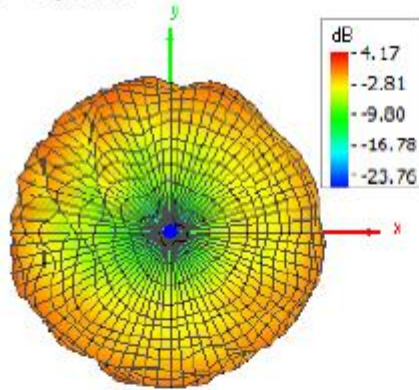


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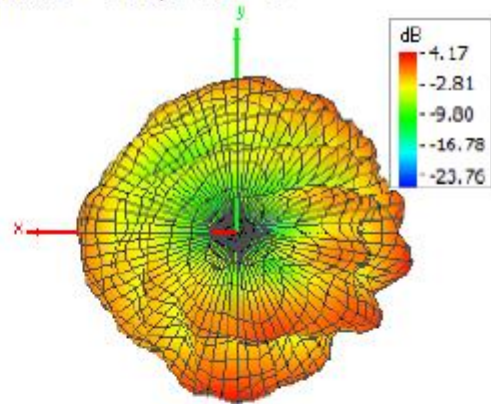
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2462MHz

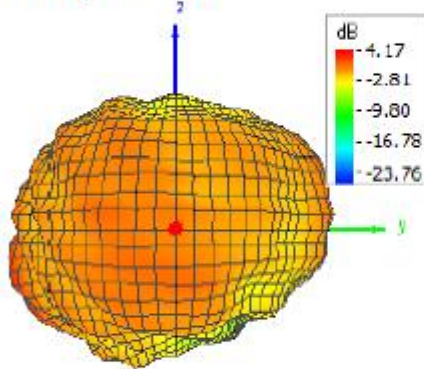
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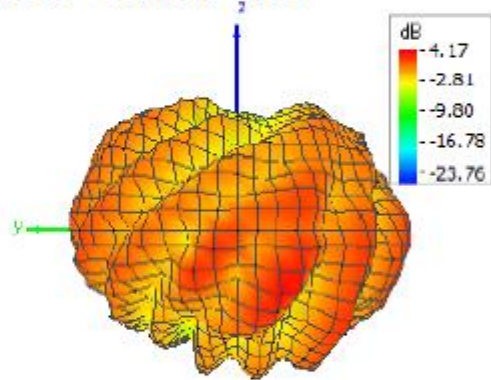
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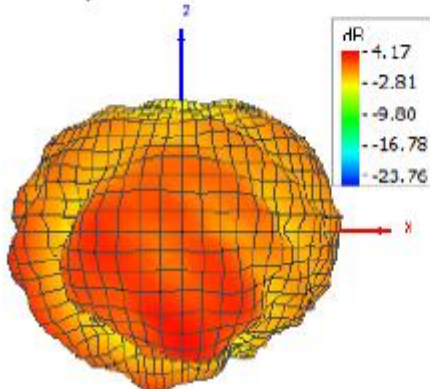
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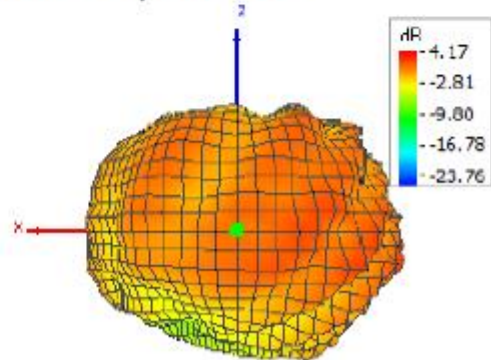
Theta = 90, Phi = 180



Theta = 90, Phi = 270



Theta = 90, Phi = 90

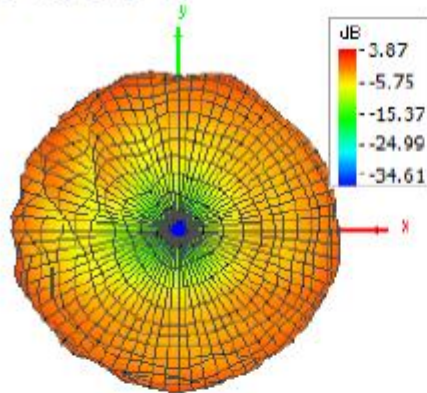


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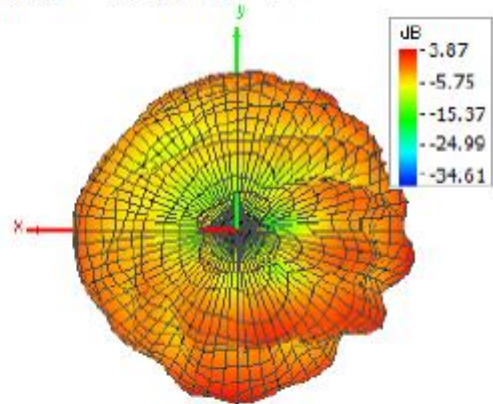
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2472MHz

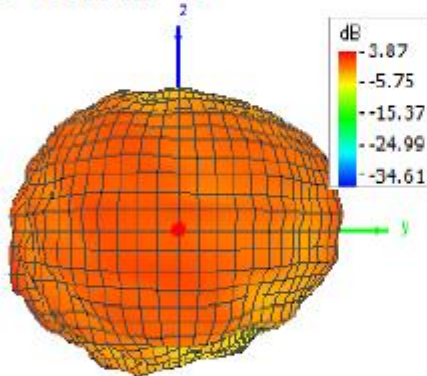
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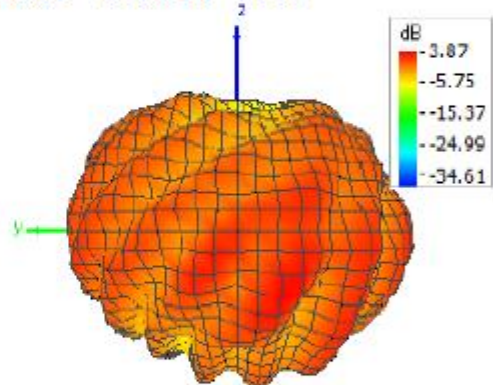
Theta = 180, Phi = 0



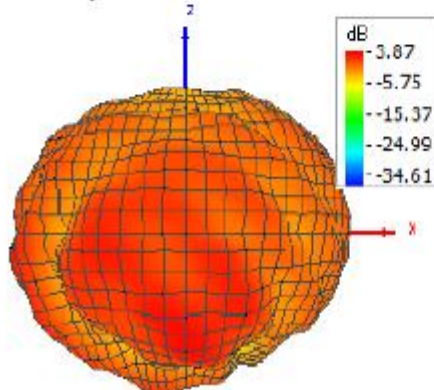
Theta = 90, Phi = 0



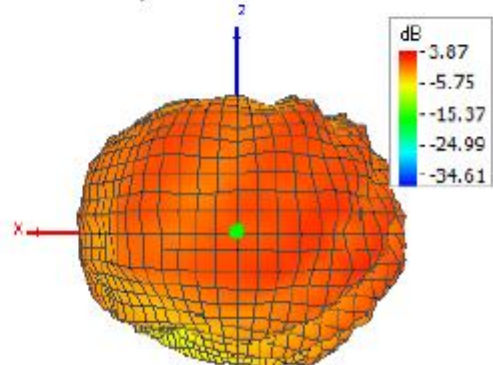
Theta = 90, Phi = 180



Theta = 90, Phi = 270



Theta = 90, Phi = 90



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