

ANTENNA TEST REPORT

For

LunaBulb PrepCase

Model Number: FP7-PRPCSE-E26,E27

Report Number : WT248000795

Test Laboratory : Shenzhen Academy of Metrology and Quality Inspection
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TEST REPORT DECLARATION

Applicant : Astera Manufacturing Limited
Bldg. 3, CLT Science & Technology Park, No. 7, GanLiliu
Address : Road, Jihua subdistrict, Longgang District, Shenzhen, P.C.
518112
Manufacturer : Astera Manufacturing Limited
Bldg. 3, CLT Science & Technology Park, No. 7, GanLiliu
Address : Road, Jihua subdistrict, Longgang District, Shenzhen, P.C.
518112
Factory : \

Address : \

EUT Description : LunaBulb PrepCase

MODEL No : FP7-PRPCSE-E26, E27

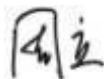
Trade mark : \

Test Standards: IEEE149-1979

The EUT described above is tested by Shenzhen Academy of Metrology and Quality Inspection EMC Laboratory. Shenzhen Academy of Metrology and Quality Inspection EMC Laboratory is assumed full responsibility for the accuracy of the test results.

The test report is valid for above tested sample only and shall not be reproduced in part without written approval of the laboratory.

Project Engineer:



(Zhou Li)

Date:

May. 07, 2024

Checked by:



(Wan Xiao Jing)

Date:

May. 07, 2024

Approved by:



(Lin Bin)

Date:

May. 07, 2024

1. TEST RESULTS SUMMARY

Table 1 Test Results Summary

Test Items	Frequency Band (MHz)	Test Results
Antenna Gain (Max)	863-870	-2.96 dBi
	902-928	-3.94 dBi
Efficiency (%)	863-870	25.92 %
	902-928	17.84 %

Remark: "N/A" means "Not applicable."

2. GENERAL INFORMATION

2.1. Report information

This report is not a certificate of quality; it only applies to the sample of the specific product/equipment given at the time of its testing. The results are not used to indicate or imply that they are application to the similar items. In addition, such results must not be used to indicate or imply that SMQ approves recommends or endorses the manufacture, supplier, or use of such product/equipment, or that SMQ in any way guarantees the later performance of the product/equipment.

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China National Accreditation Service for Conformity Assessment (CNAS) accredits the Laboratory for conformance to FCC standards, EMC international standards and EN standards. The Registration Number is CNAS L0579.

The Laboratory is Accredited Testing Laboratory of FCC with Designation number CN1165 and Site registration number 582918.

The Laboratory is registered to perform emission tests with Innovation, Science and Economic Development (ISED), and the registration number is 11177A.

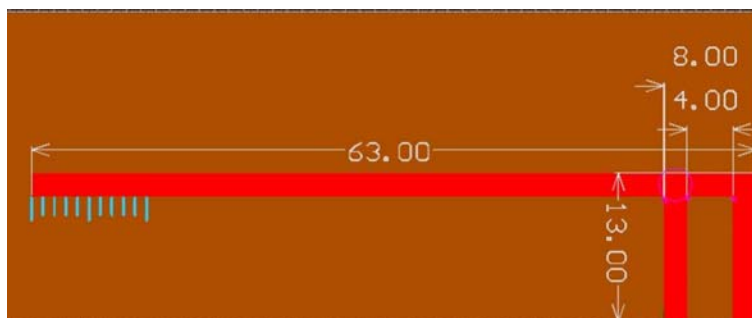
The Laboratory is registered to perform emission tests with VCCI, and the registration number are C-20048, G20076, R-20077, R-20078 and T-20047.

3. PRODUCT DESCRIPTION

3.1.EUT Description

Description : LunaBulb PrepCase
Applicant : Astera Manufacturing Limited
Model Number : FP7-PRPCSE-E26,E27
Frequency Band : 863-870, 902-928 MHz
Antenna size : 900MHz: 63*13 mm

Antenna shape :



Remark: The above information is provided by the customer

3.2.Test Conditions

Date of test: Apr. 29-Apr. 30, 2024
Date of EUT Receive: Apr. 25, 2024
Temperature: 20~24℃
Relative Humidity: 40~50 %

4. TEST EQUIPMENT USED

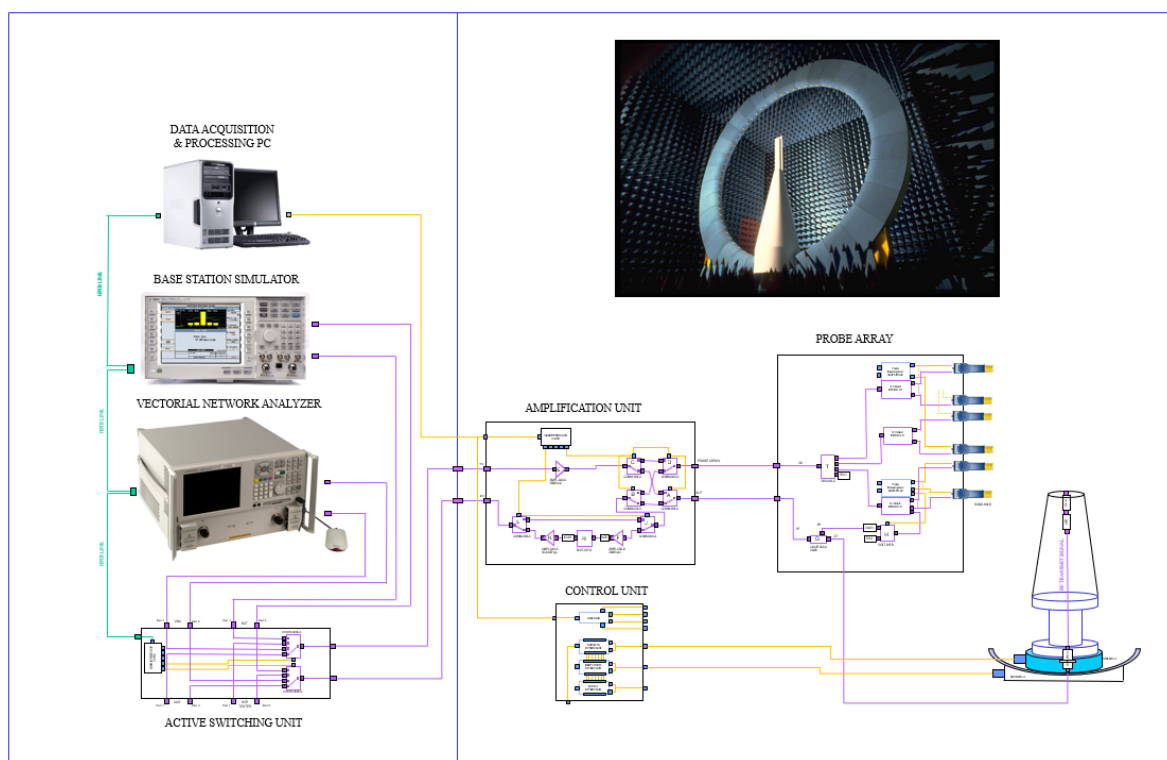
4.1. Test Equipment Used to Measure Conducted Disturbance

Table 2 Test Equipment

No.	Equipment	Manufacturer	Model No.	LAST CAL.	Period
SB9011	Antenna test system	Satimo	SG24	N/A	N/A
SB9011/01	Network analyzer	Agilent	E5071C	Apr. 22, 2024	1 Year
--	Passive Measurement	SATIMO	1.1.4	N/A	N/A

5. ANTENNA TEST

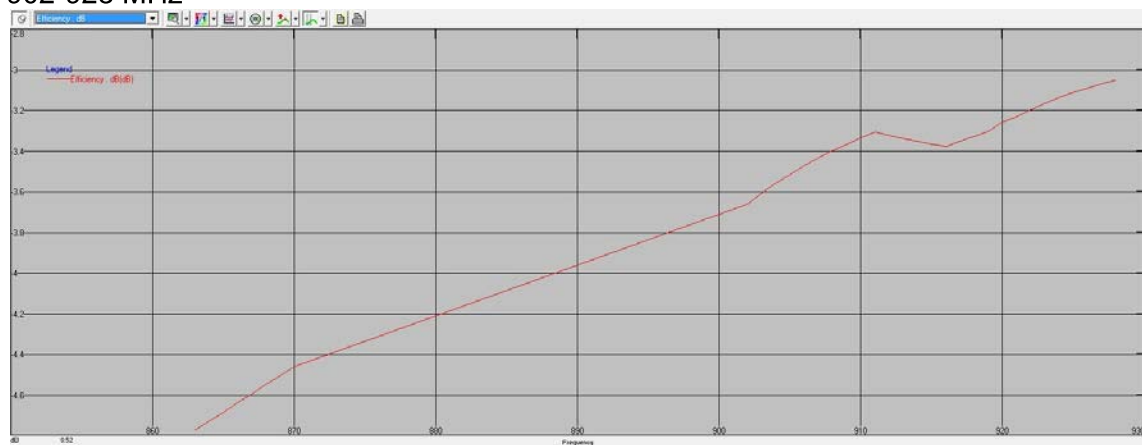
5.1. Test Setup

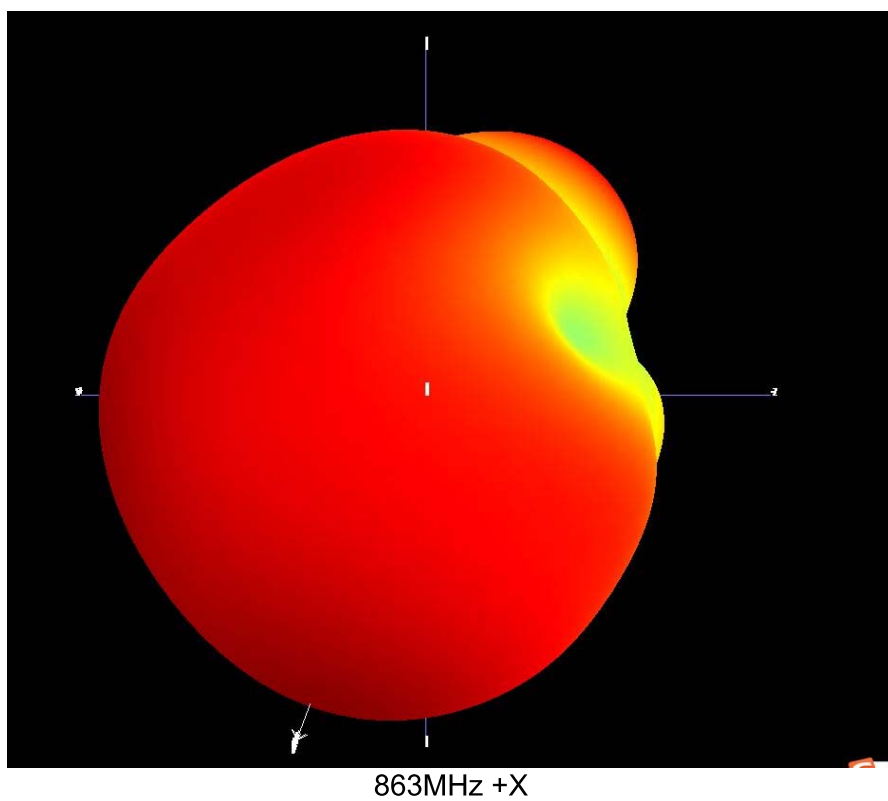


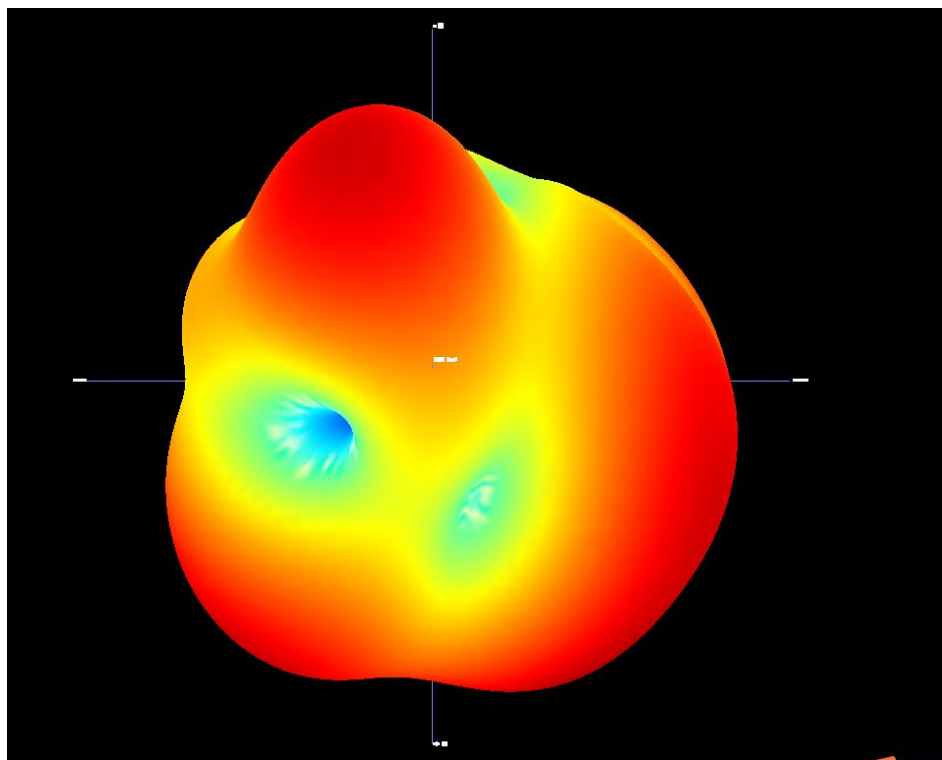
Efficiency

Frequency band (MHz)	Efficiency (%)
863	33.33
864	33.66
865	34.01
866	34.38
867	34.74
868	35.10
869	35.45
870	35.82
902	43.06
903	43.59
904	44.09
905	44.54
906	44.96
907	45.37
908	45.75
909	46.08
910	46.41
911	46.72
912	46.54
913	46.37
914	46.23
915	46.10
916	45.97
917	46.24
918	46.50
919	46.76
920	47.27
921	47.55
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923	48.26
924	48.58
925	48.87
926	49.13
927	49.35
928	49.55

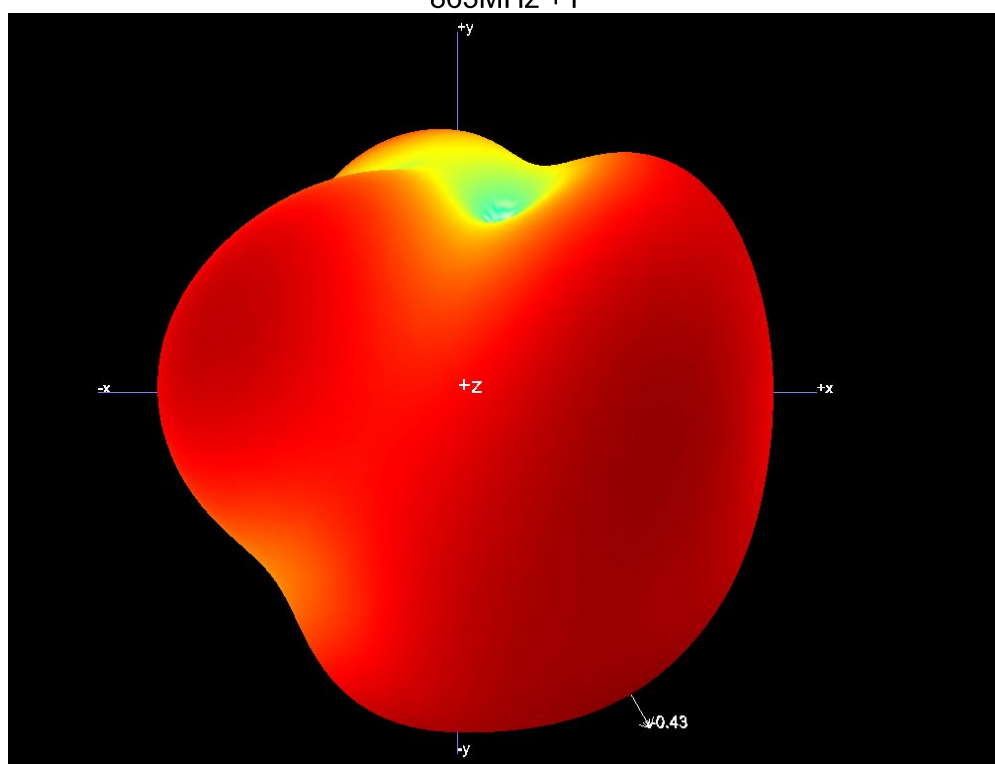
863-870, 902-928 MHz



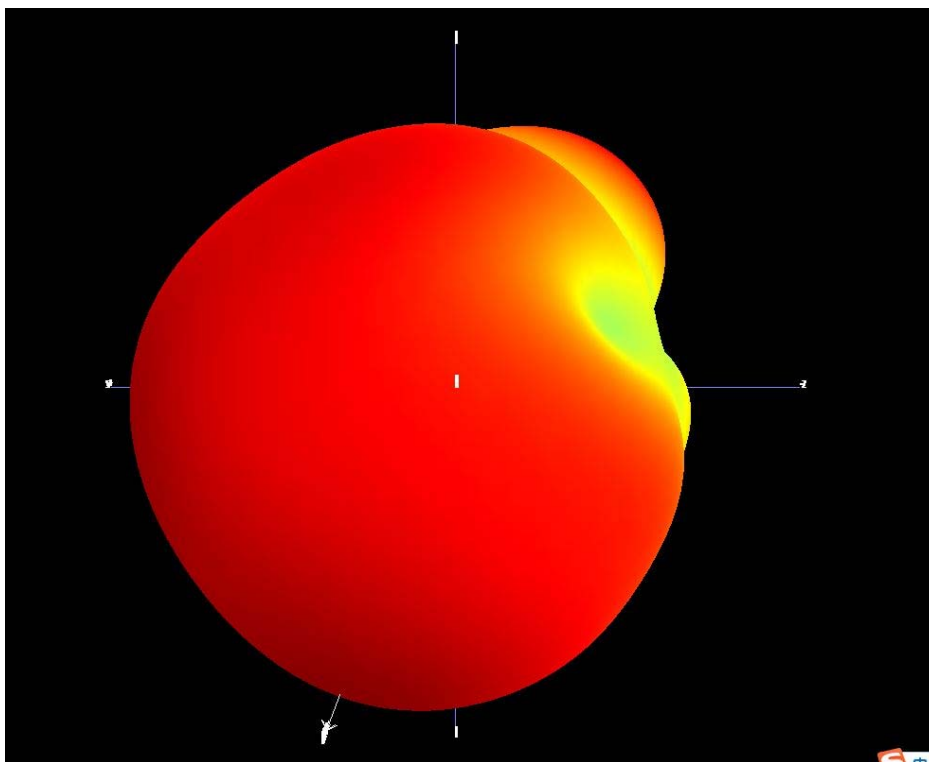




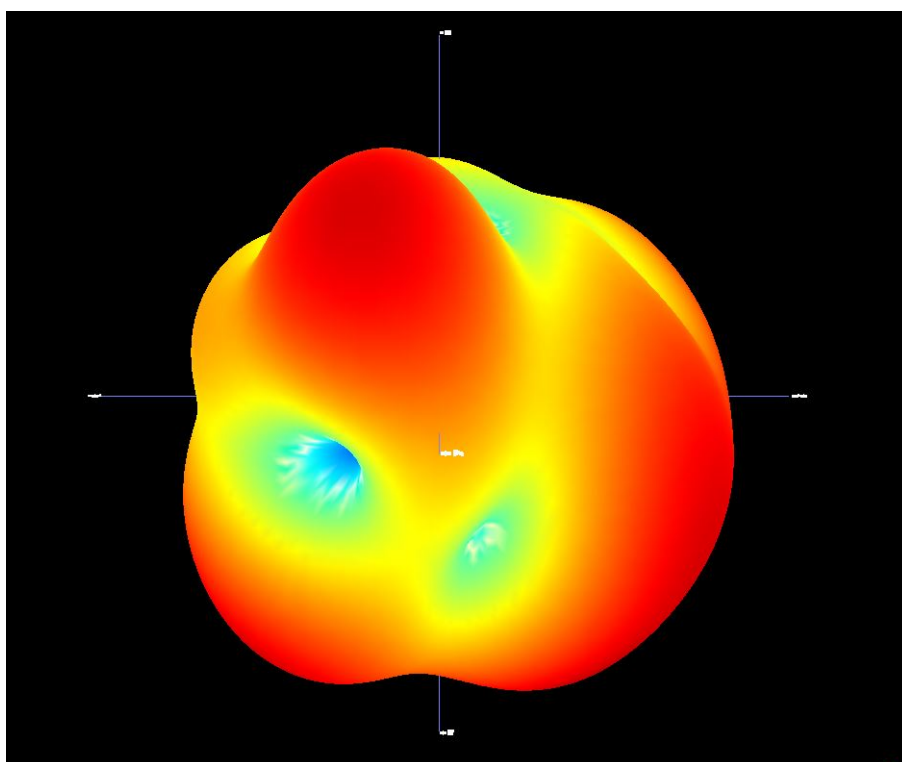
863MHz +Y



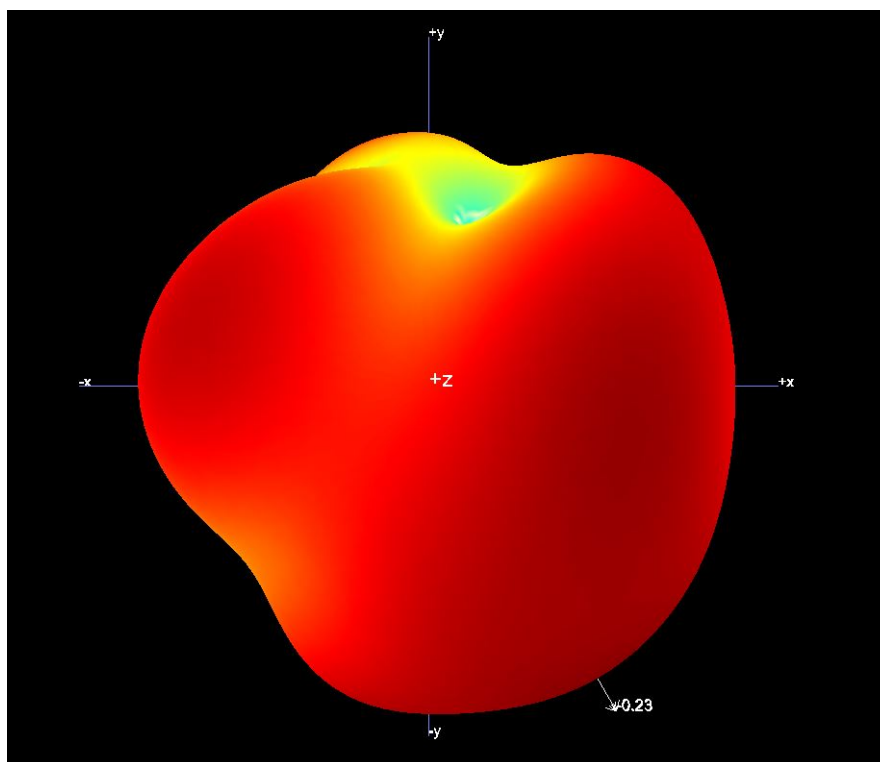
863MHz +Z



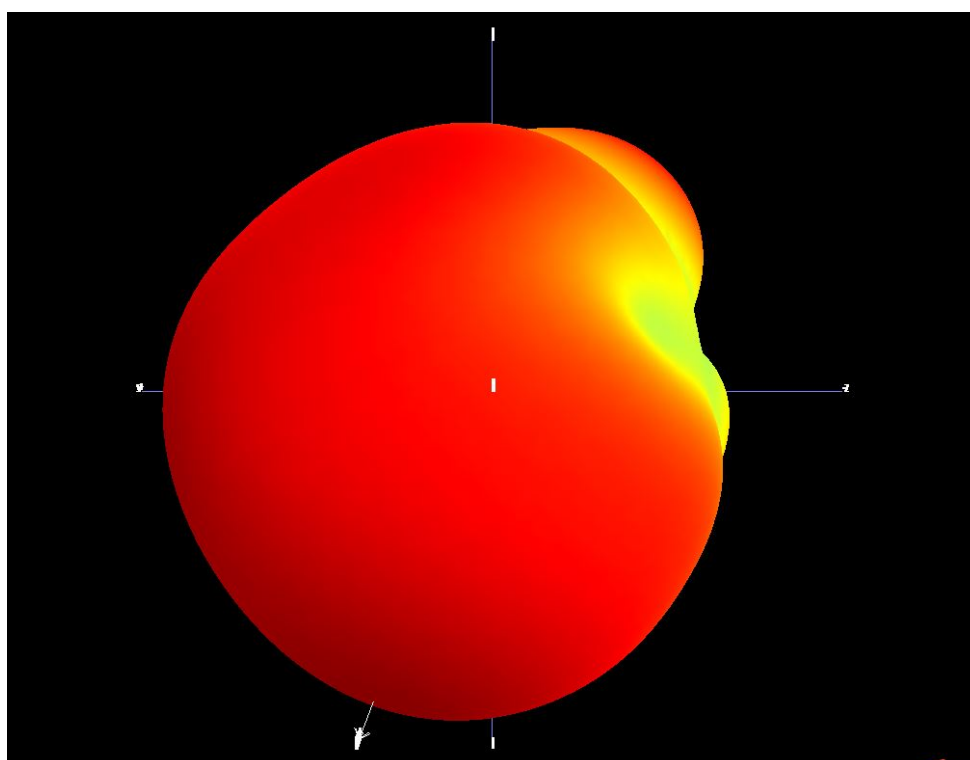
866MHz +X



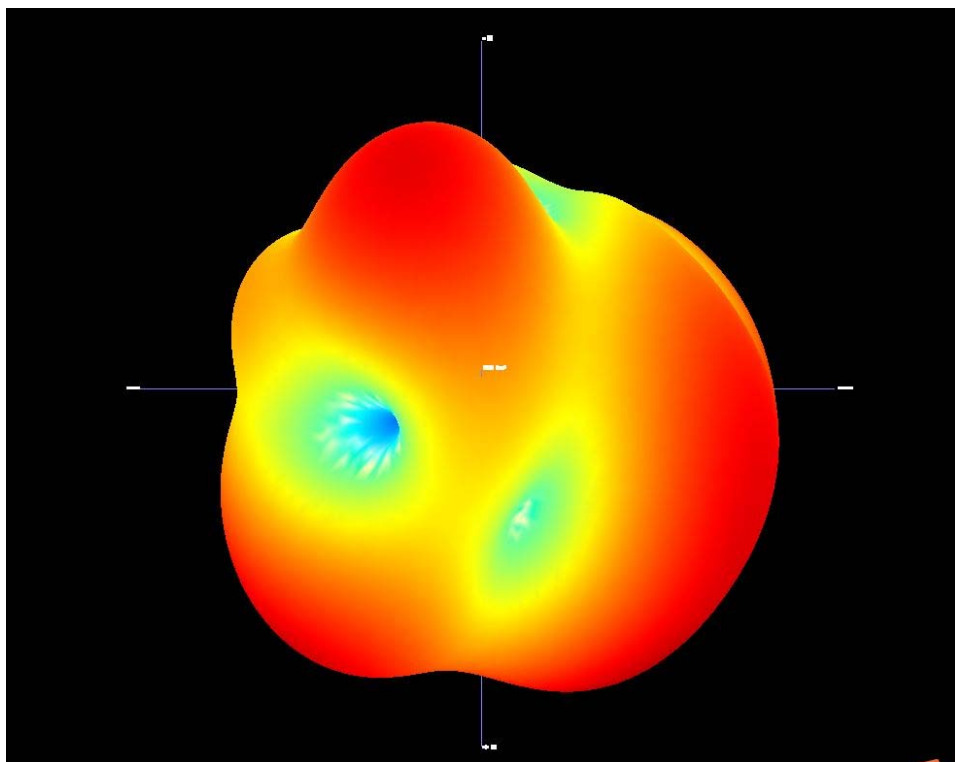
866MHz +Y



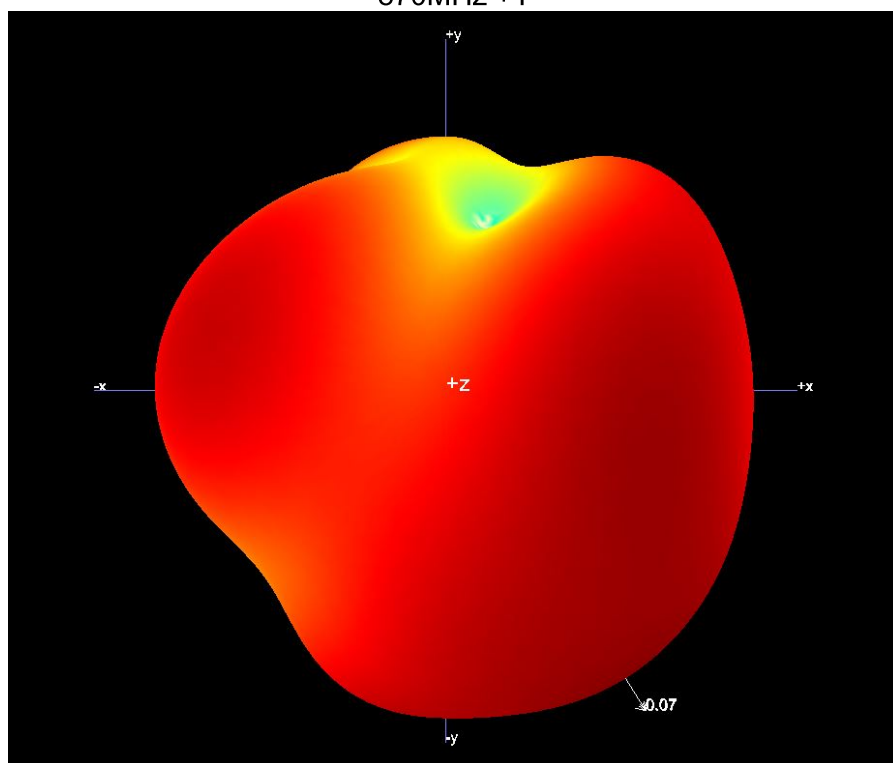
866MHz +Z



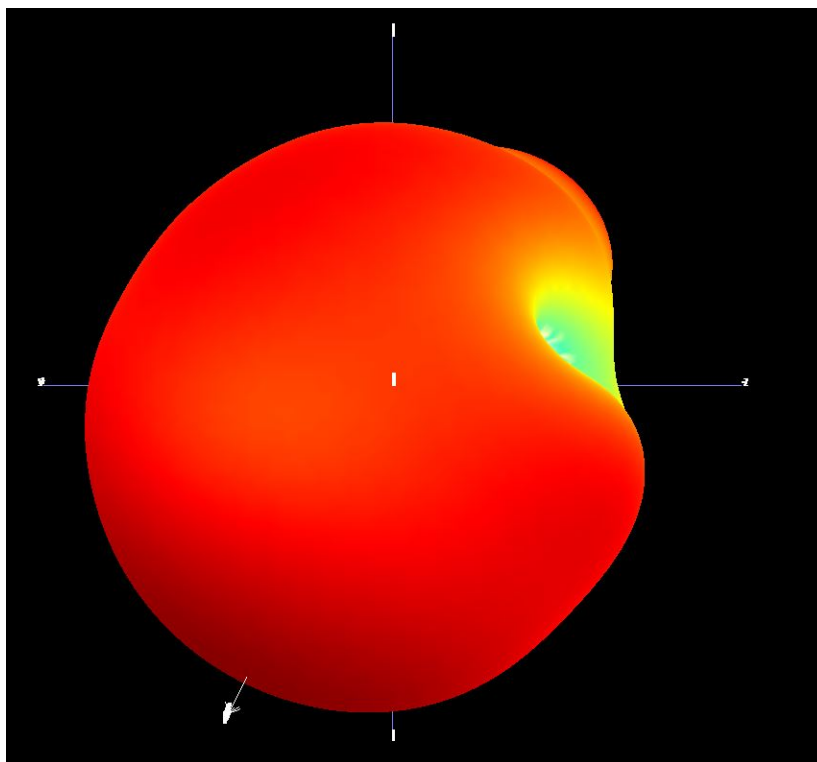
870MHz +X



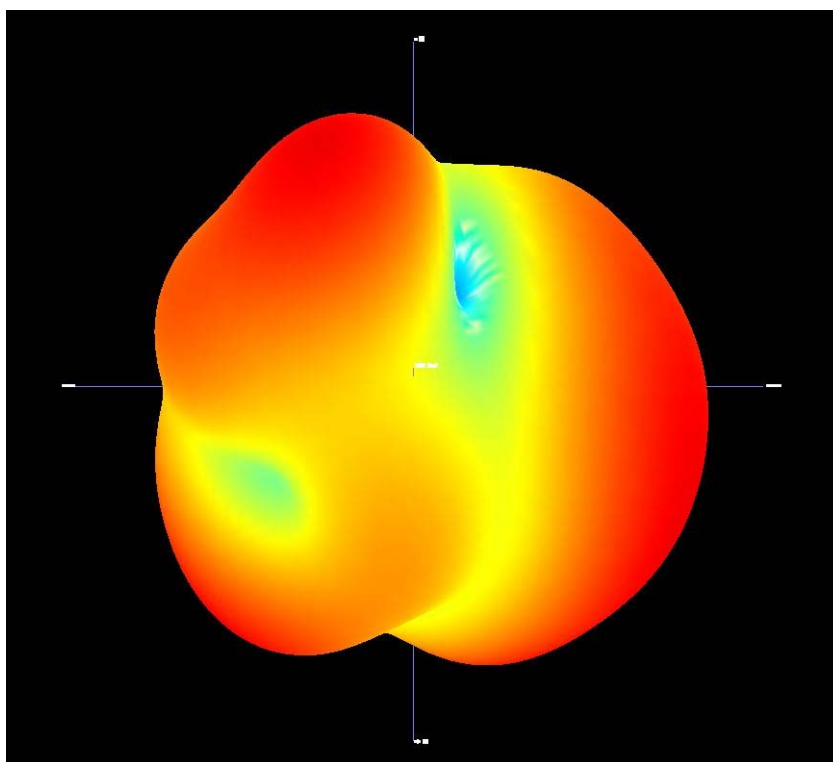
870MHz +Y



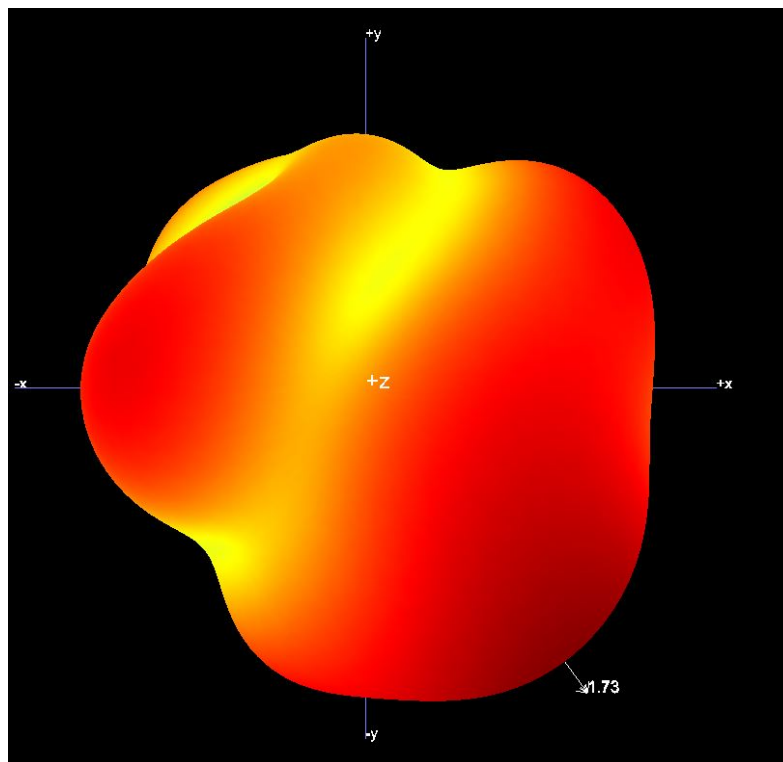
870MHz +Z



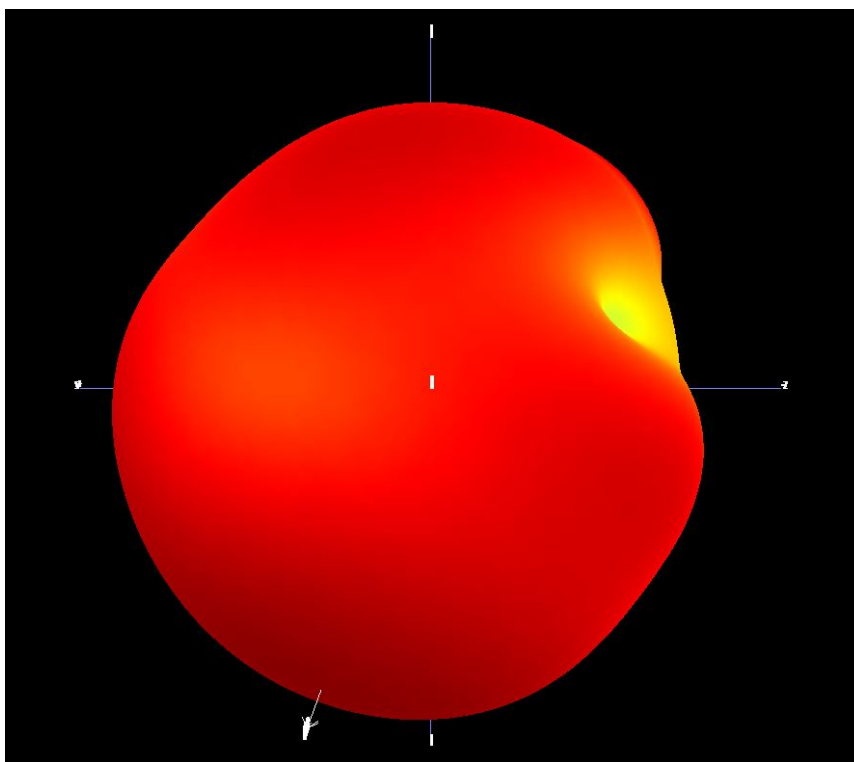
902MHz +X



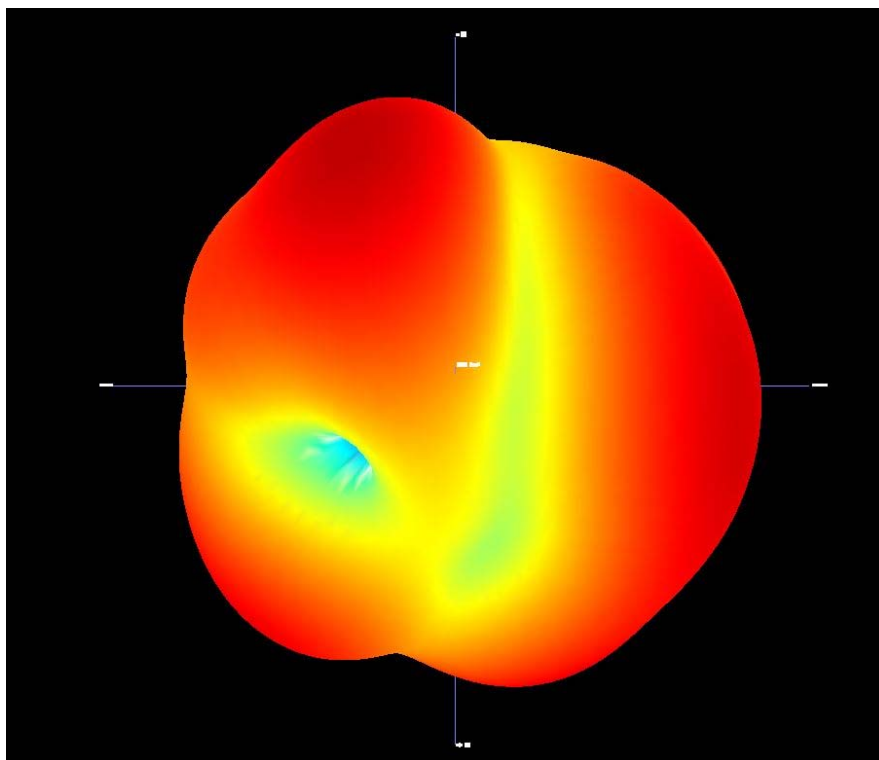
902MHz +Y



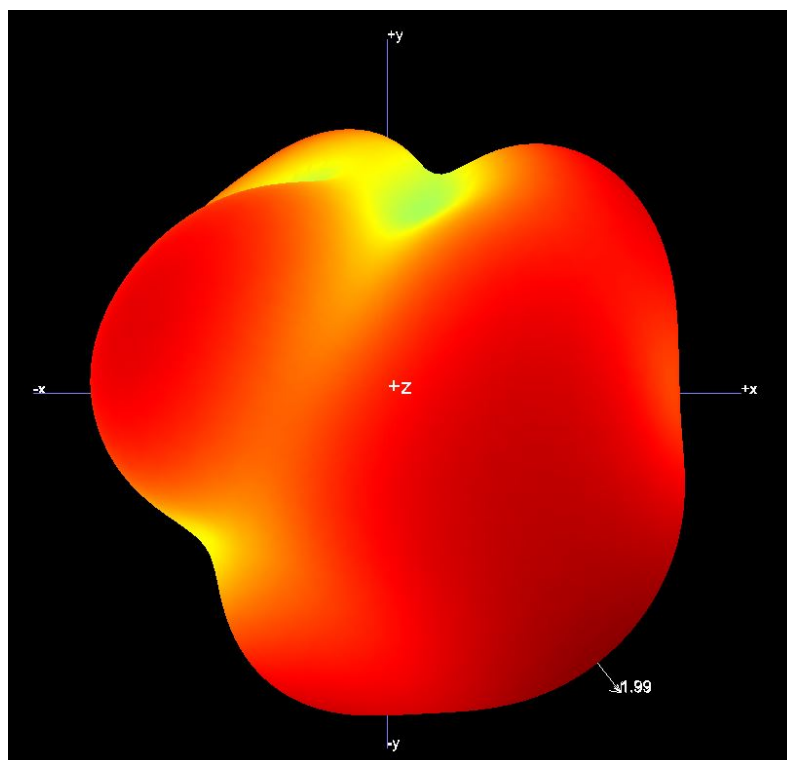
902MHz +Z



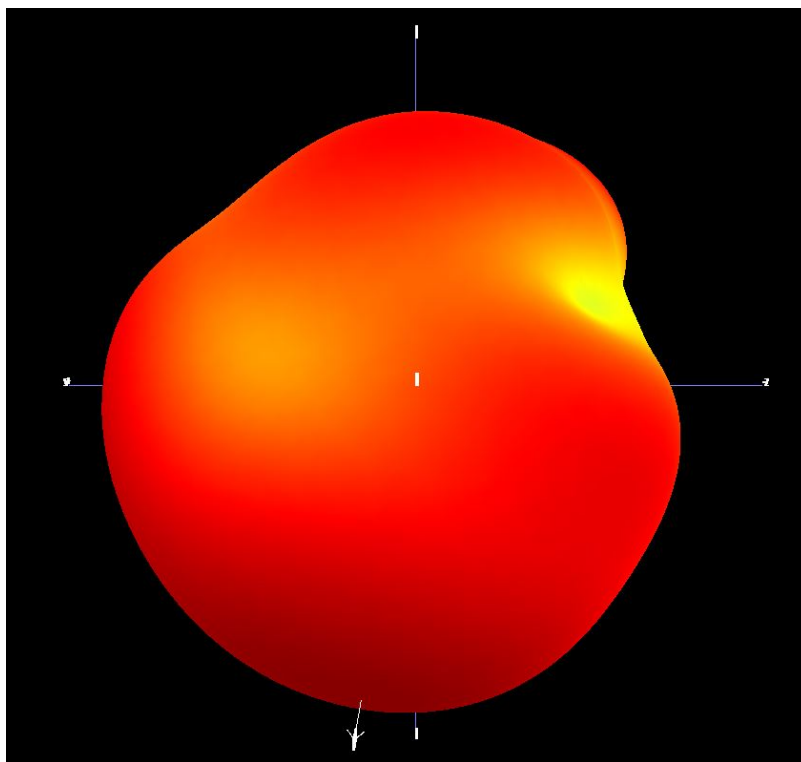
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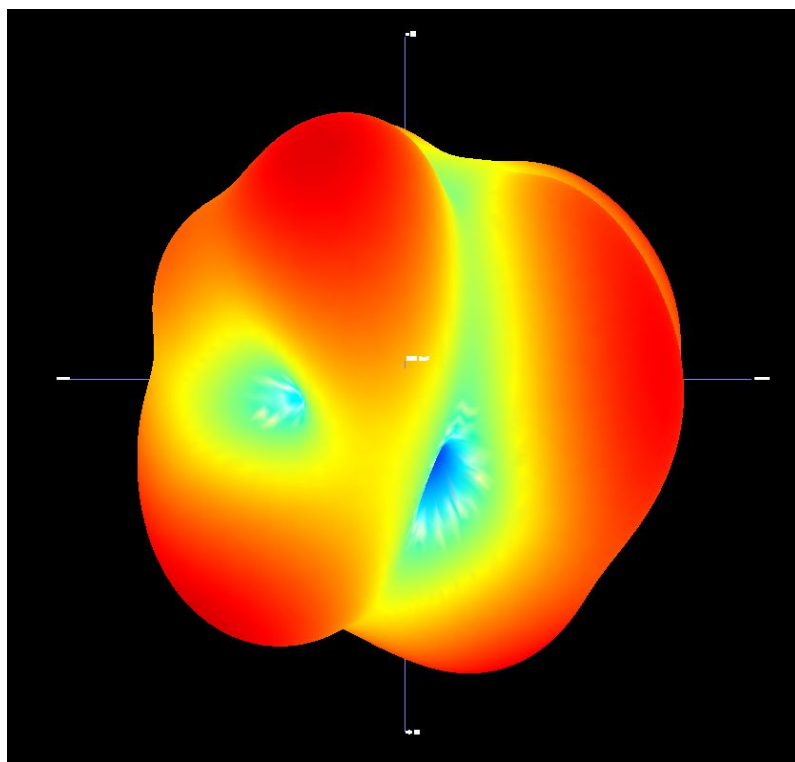
915MHz +Y



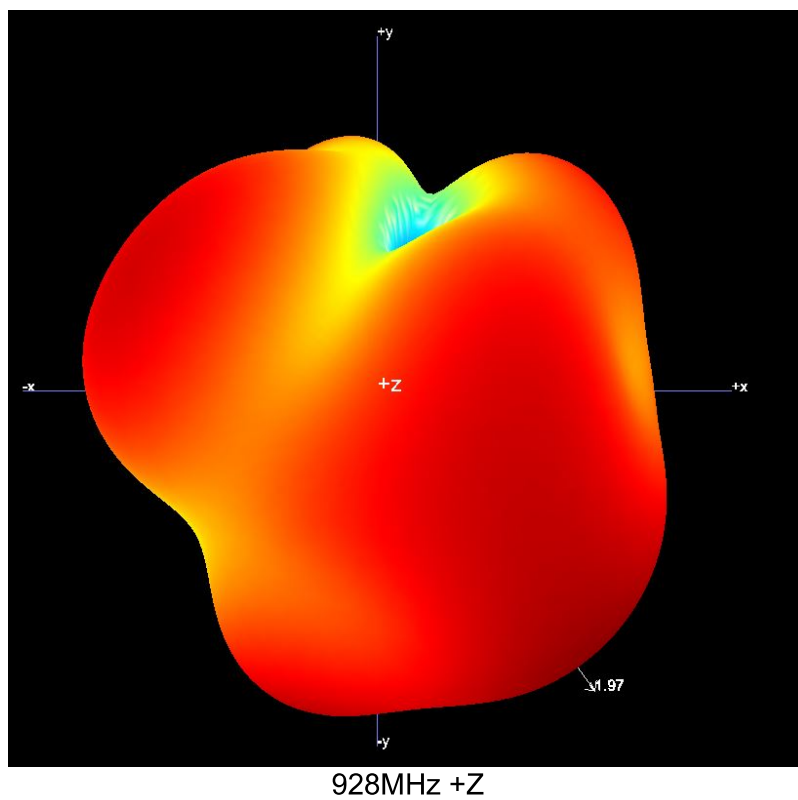
915MHz +Z



928MHz +X



928MHz +Y



APPENDIX I TEST PHOTOS

Photo 1 EUT



Photo 2 Antenna Test

