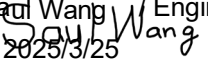
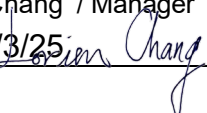


Antenna Measurement Report	
Model: ANT010-DAU/ ANT003/ A245005N/ A2405N/ A5005N/ A245004/ A245002	
Equipment Name: ANT010-DAU/ ANT003/ A245005N/ A2405N/ A5005N/ A245004/ A245002	
Brand (Trade) Name: AsiaRF	
Applicant: AsiaRF Co., Ltd. 1F, 7, Houde Street, Yonghe Dist. New Taipei City, 23455, Taiwan	
Manufacturer: AsiaRF Co., Ltd. 1F, 7, Houde Street, Yonghe Dist. New Taipei City, 23455, Taiwan	
Antenna Type: Dipole / PCB	
Tested by (name / position & signature)	Saul Wang / Engineer 2025/3/25 
Approved by (name / position & signature)	Lorien Chang / Manager 2025/3/25 
Date of issue 2025/3/25	

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Competences and guarantees

DEKRA is a testing laboratory competent to carry out the tests described in this report.

In order to assure the traceability to other national and international laboratories, DEKRA has a calibration and maintenance program for its measurement equipment.

DEKRA guarantees the reliability of the data presented in this report, which is the result of the measurements and the tests performed to the item under test on the date and under the conditions stated in the report and it is based on the knowledge and technical facilities available at DEKRA at the time of performance of the test.

DEKRA is liable to the client for the maintenance of the confidentiality of all information related to the item under test and the results of the test.

The results presented in this Test Report apply only to the particular item under test established in this document.

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General conditions

1. This report is only referred to the item that has undergone the test.
2. This report does not constitute or imply on its own an approval of the product by the Certification Bodies or competent Authorities.
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4. This test report cannot be used partially or in full for publicity and/or promotional purposes without previous written permission of DEKRA Testing and Certification.

Data provided by the client

The following data has been provided by the client:

1. No

DEKRA Testing and Certification declines any responsibility with respect to the information provided by the client and that may affect the validity of results.

Testing period and place

Test Location	DEKRA Testing and Certification No. 26, Huaya 1st Rd., Guishan Dist., Taoyuan City 333411 , Taiwan
Date (start)	2025/3/17
Date (finish)	2025/3/17

Document history

Report number	Revision	Date	Description
2530504R-A324340030S-A	Rev. 1.0	2025/3/25	First release

Environmental conditions

The climatic conditions during the tests are within the limits specified by the manufacturer for the operation of the EUT and the test equipment. The climatic conditions during the tests were within the following limits:

Ambient temperature	22 °C – 28 °C
Relative Humidity air	< 60%

Testing verdicts

Not applicable:	N/A
Pass:	P
Fail:	F
Infomation:	Info
Not measured:	N/M

Used Equipment

Name	Manufacturer	Type/Model	Serial Number	Calibration
				Last Cal.
Vector Network Analyzer	R&S	ZNB 8	106333	2024/5/15
Measurement Software	ETS-Lindgren	EMQuest 1.17	1474	N/A

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2. TEST RESULTS

2.1 Summary

2.2 Antenna_Passive

ANT003_Gain_2400MHz-5850MHz

Frequency (MHz)	Tot. Rad. Pwr. (dBm)	Peak EIRP (dBm)	Directivity (dBi)	Efficiency (dB)	Efficiency (%)	Gain (dBi)	NHPRP $\pm\pi/4$ (dBm)	NHPRP $\pm\pi/6$ (dBm)
2400	-2.70	2.22	5.92	-2.70	53.70	2.22	-4.93	-6.63
2450	-2.38	2.15	5.52	-2.38	57.82	2.15	-4.51	-6.19
2500	-1.86	2.50	6.48	-1.86	65.14	2.50	-4.05	-5.83
5150	-5.34	1.85	5.96	-5.34	29.24	1.85	-7.09	-8.99
5500	-3.29	1.62	3.91	-3.29	46.86	1.62	-4.55	-6.06
5850	-1.70	2.50	4.37	-1.70	67.57	2.50	-3.17	-4.75

ANT010-DAU_Gain_2400MHz-5850MHz

Frequency (MHz)	Tot. Rad. Pwr. (dBm)	Peak EIRP (dBm)	Directivity (dBi)	Efficiency (dB)	Efficiency (%)	Gain (dBi)	NHPRP $\pm\pi/4$ (dBm)	NHPRP $\pm\pi/6$ (dBm)
2400	-1.71	5.12	6.84	-1.71	67.43	5.12	-4.05	-5.67
2450	-1.40	5.20	7.02	-1.40	72.49	5.20	-3.57	-5.18
2500	-1.58	5.19	7.01	-1.58	69.47	5.19	-3.76	-5.35
5150	-2.25	5.50	8.75	-2.25	59.53	5.50	-3.64	-5.03
5500	-3.97	5.13	9.09	-3.97	40.11	5.13	-5.42	-6.88
5850	-3.45	4.46	7.92	-3.45	45.16	4.46	-4.84	-6.30

A5005N Gain 5150MHz-5850MHz

Frequency (MHz)	Tot. Rad. Pwr. (dBm)	Peak EIRP (dBm)	Directivity (dBi)	Efficiency (dB)	Efficiency (%)	Gain (dBi)	NHPRP $\pm\pi/4$ (dBm)	NHPRP $\pm\pi/6$ (dBm)
5150	-2.19	5.00	5.88	-2.19	60.35	5.00	-3.69	-5.46
5500	-3.07	3.92	5.19	-3.07	49.33	3.92	-4.34	-5.79
5850	-3.36	3.85	5.51	-3.36	46.11	3.85	-4.34	-5.59

A2405N Gain 2400MHz-2500MHz

Frequency (MHz)	Tot. Rad. Pwr. (dBm)	Peak EIRP (dBm)	Directivity (dBi)	Efficiency (dB)	Efficiency (%)	Gain (dBi)	NHPRP $\pm\pi/4$ (dBm)	NHPRP $\pm\pi/6$ (dBm)
2400	-1.28	3.21	6.13	-1.28	74.56	3.21	-3.84	-5.74
2450	-1.19	3.82	6.77	-1.19	76.09	3.82	-3.62	-5.51
2500	-0.78	5.20	7.76	-0.78	83.54	5.20	-3.07	-4.95

A245005N Gain 2400MHz-5850MHz

Frequency (MHz)	Tot. Rad. Pwr. (dBm)	Peak EIRP (dBm)	Directivity (dBi)	Efficiency (dB)	Efficiency (%)	Gain (dBi)	NHPRP ±Pi/4 (dBm)	NHPRP ±Pi/6 (dBm)
2400	-18.44	1.82	7.32	-18.44	1.43	1.82	-20.04	-21.47
2450	-14.56	2.51	6.43	-14.56	3.50	2.51	-16.07	-17.44
2500	-9.82	4.00	6.46	-9.82	10.41	4.00	-11.35	-12.82
5150	-5.58	5.10	4.64	-5.58	27.64	5.10	-6.27	-7.37
5500	-10.65	3.83	5.11	-10.65	8.62	3.83	-11.50	-12.76
5850	-9.91	3.78	4.42	-9.91	10.22	3.78	-10.94	-12.26

A245002 Gain_2400MHz-5850MHz

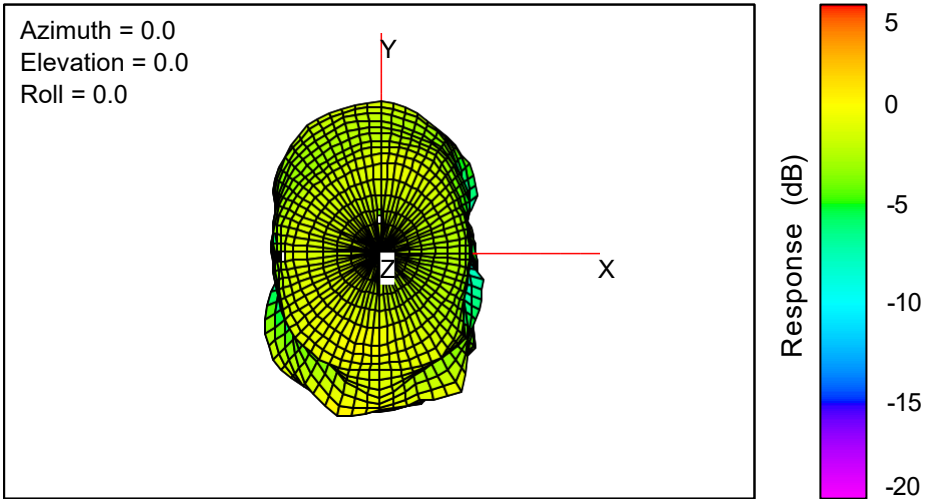
Frequency (MHz)	Tot. Rad. Pwr. (dBm)	Peak EIRP (dBm)	Directivity (dBi)	Efficiency (dB)	Efficiency (%)	Gain (dBi)	NHPRP $\pm\pi/4$ (dBm)	NHPRP $\pm\pi/6$ (dBm)
2400	-1.45	2.00	3.89	-1.45	71.59	2.00	-2.23	-3.40
2450	-1.71	1.75	3.46	-1.71	67.50	1.75	-2.53	-3.70
2500	-1.23	1.95	3.44	-1.23	75.34	1.95	-2.10	-3.29
5150	-2.03	1.98	5.28	-2.03	62.69	1.98	-2.56	-3.42
5500	-1.66	2.00	6.56	-1.66	68.16	2.00	-2.41	-3.28
5850	-2.26	1.85	5.03	-2.26	59.43	1.85	-2.89	-3.64

A245004 Gain 2400MHz-5850MHz

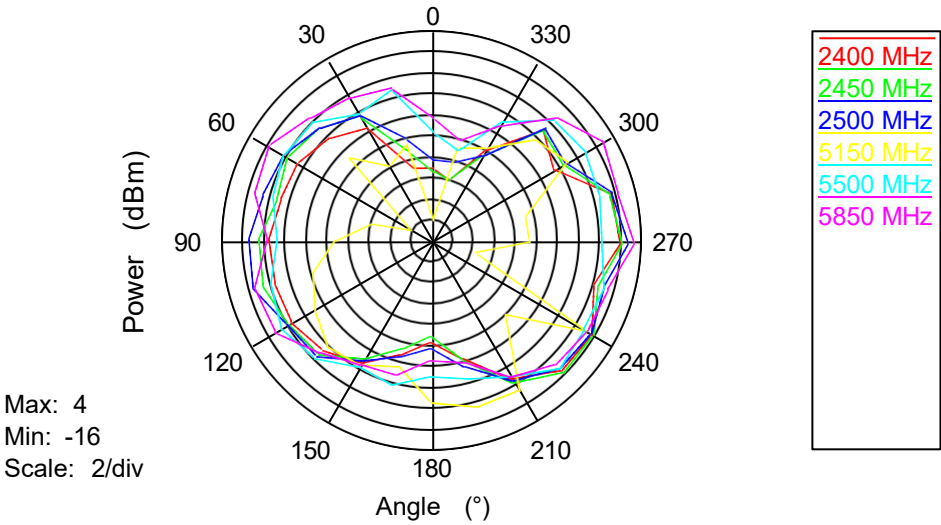
Frequency (MHz)	Tot. Rad. Pwr. (dBm)	Peak EIRP (dBm)	Directivity (dBi)	Efficiency (dB)	Efficiency (%)	Gain (dBi)	NHPRP $\pm\pi/4$ (dBm)	NHPRP $\pm\pi/6$ (dBm)
2400	-0.75	4.00	6.40	-0.75	84.13	4.00	-1.05	-1.43
2450	-1.39	3.56	6.57	-1.39	72.66	3.56	-1.74	-2.12
2500	-1.35	3.21	6.41	-1.35	73.30	3.21	-1.76	-2.19
5150	-2.48	4.25	4.69	-2.48	56.53	4.25	-3.87	-4.76
5500	-1.76	5.10	5.87	-1.76	66.73	5.10	-2.53	-3.31
5850	-3.87	3.95	5.13	-3.87	40.99	3.95	-5.56	-6.87

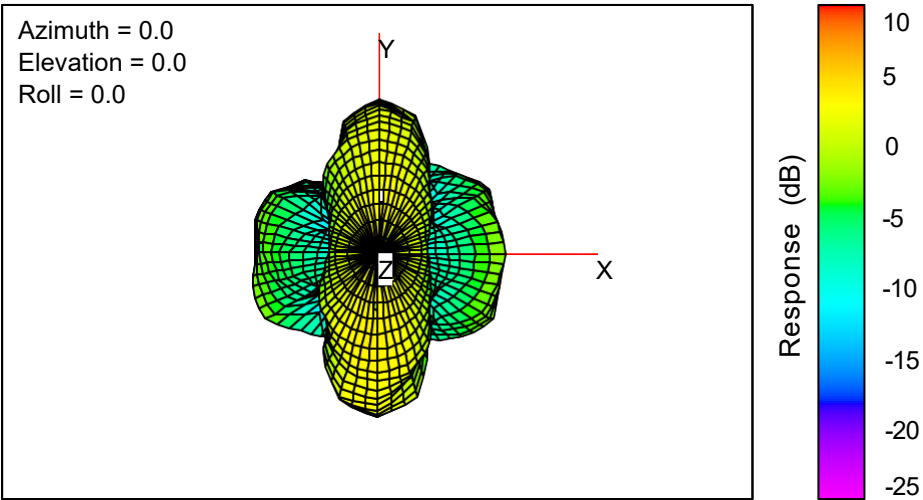
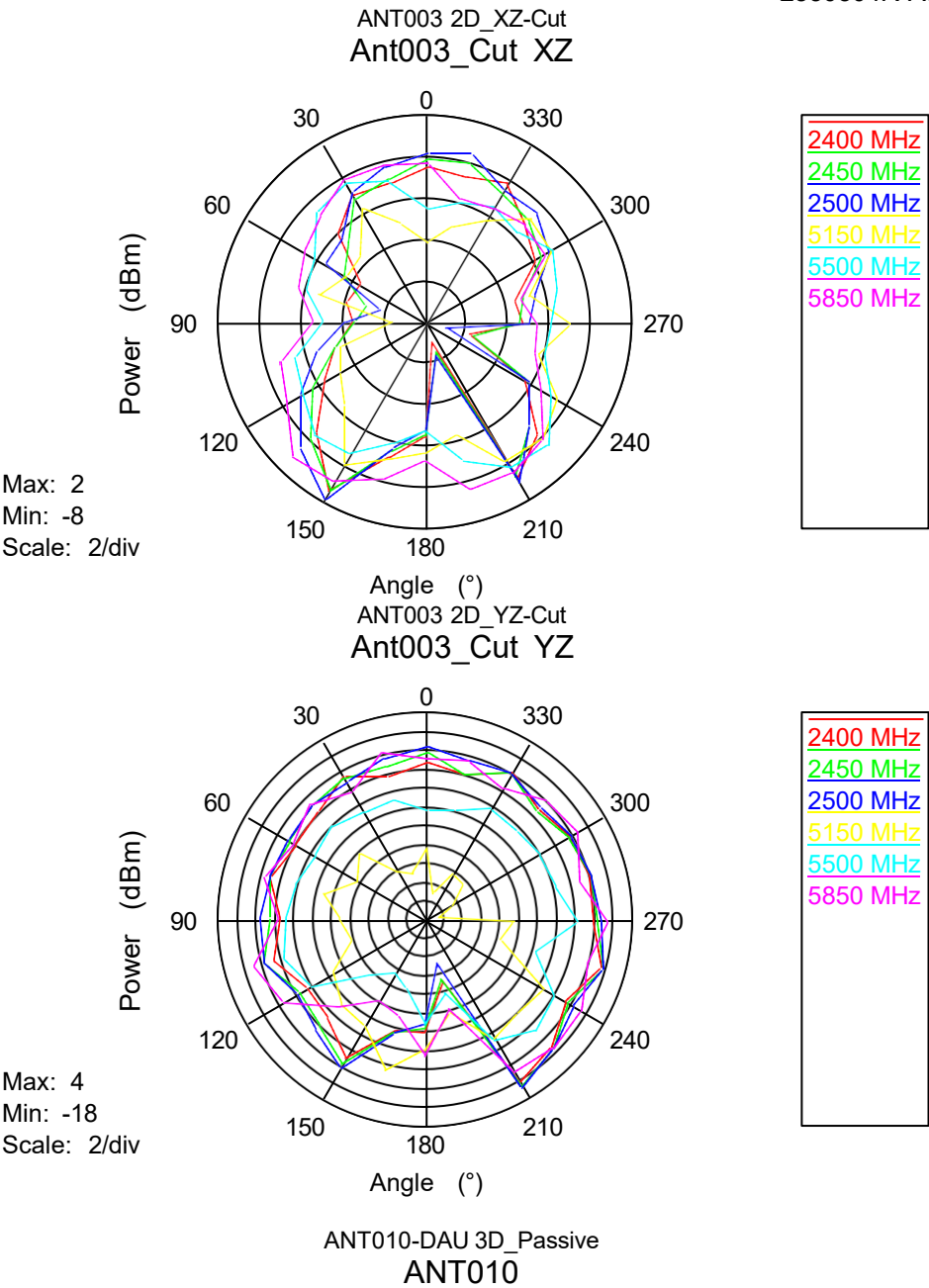
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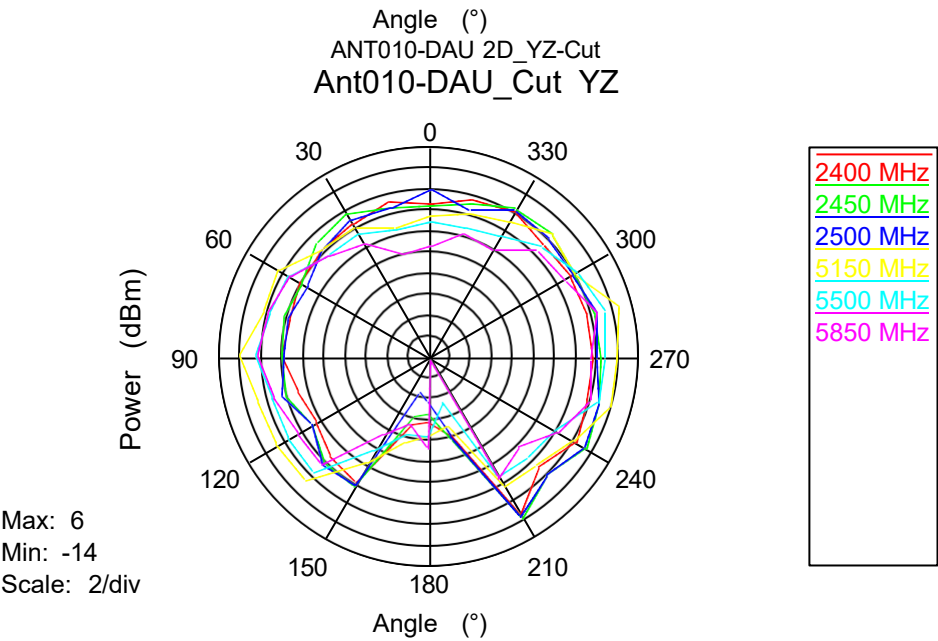
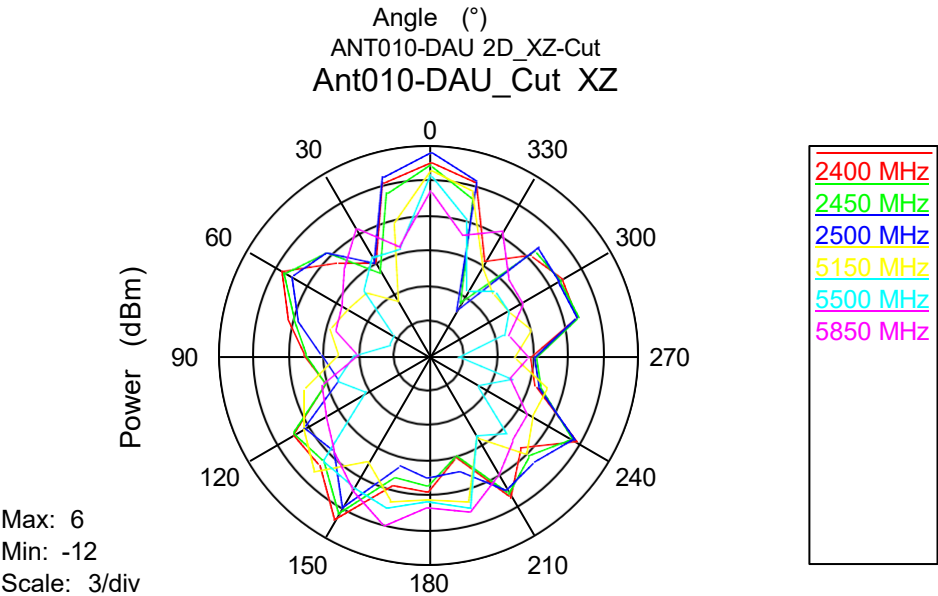
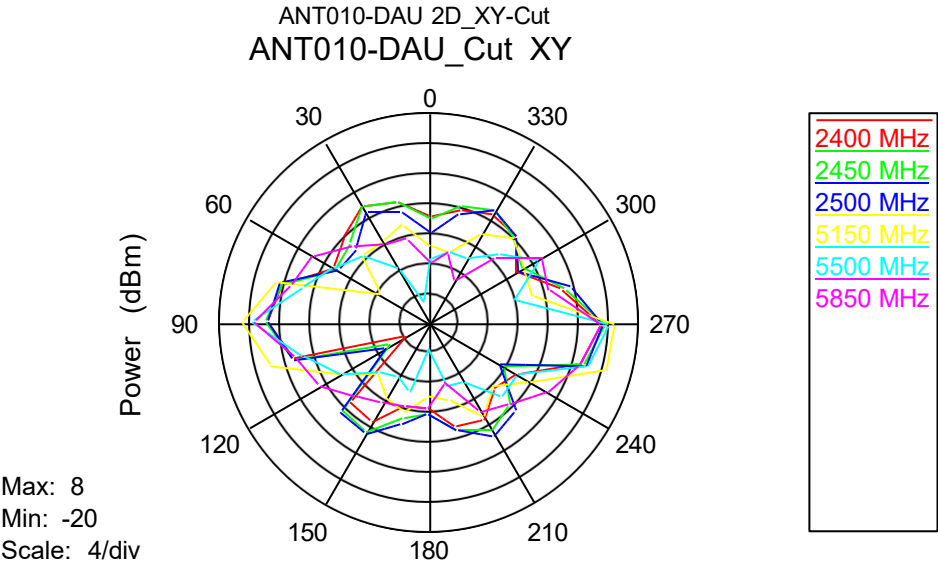
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ANT003



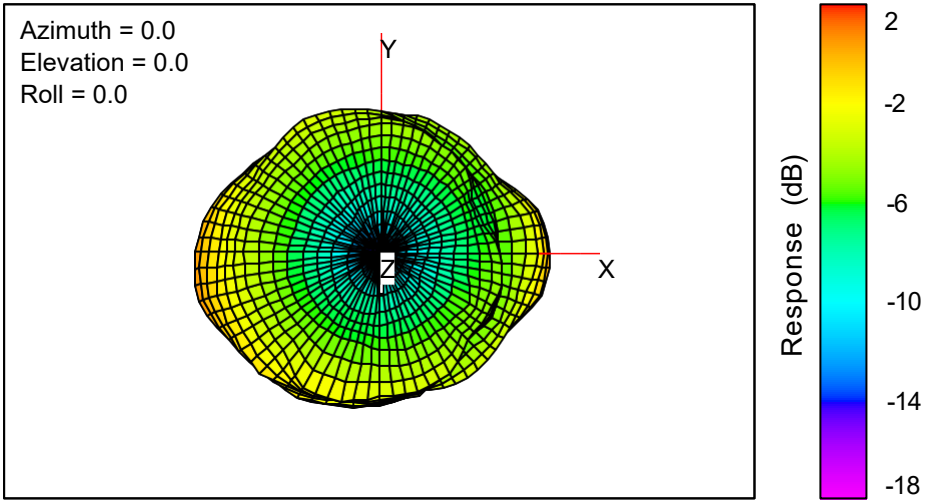
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ANT003_Cut XY



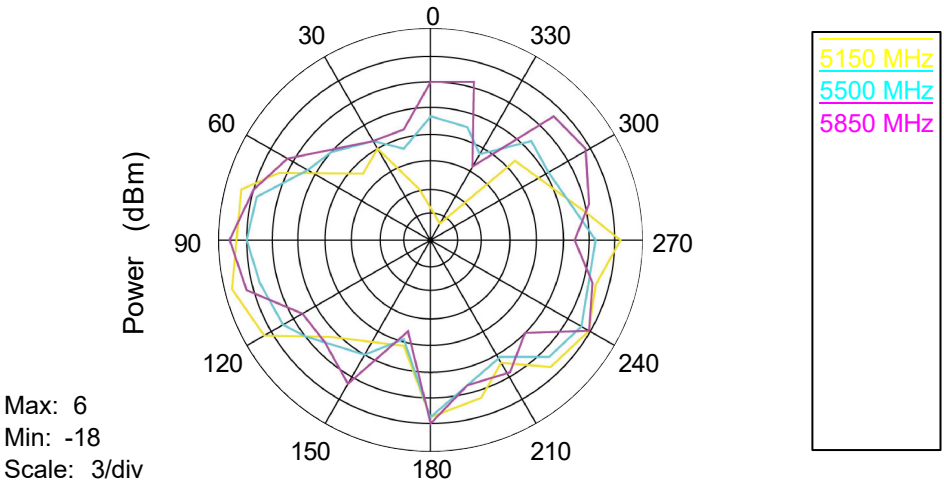




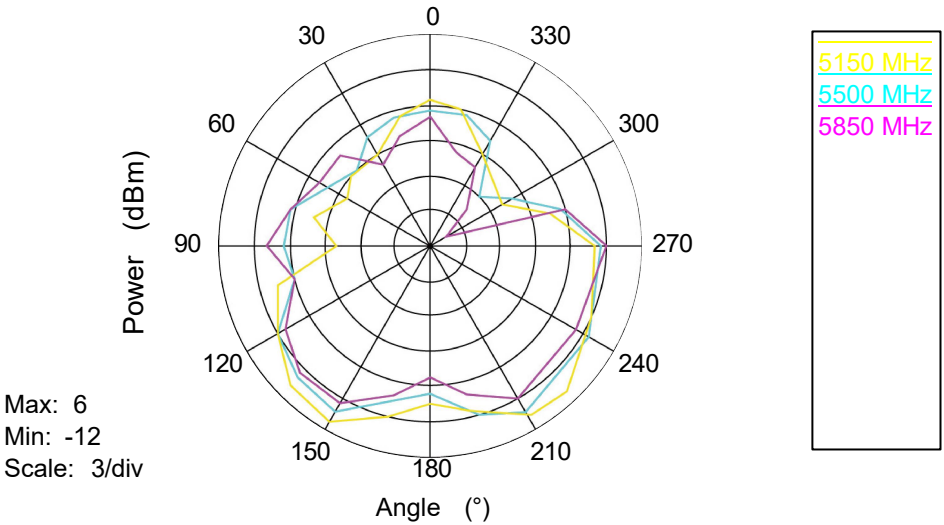
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A5005N

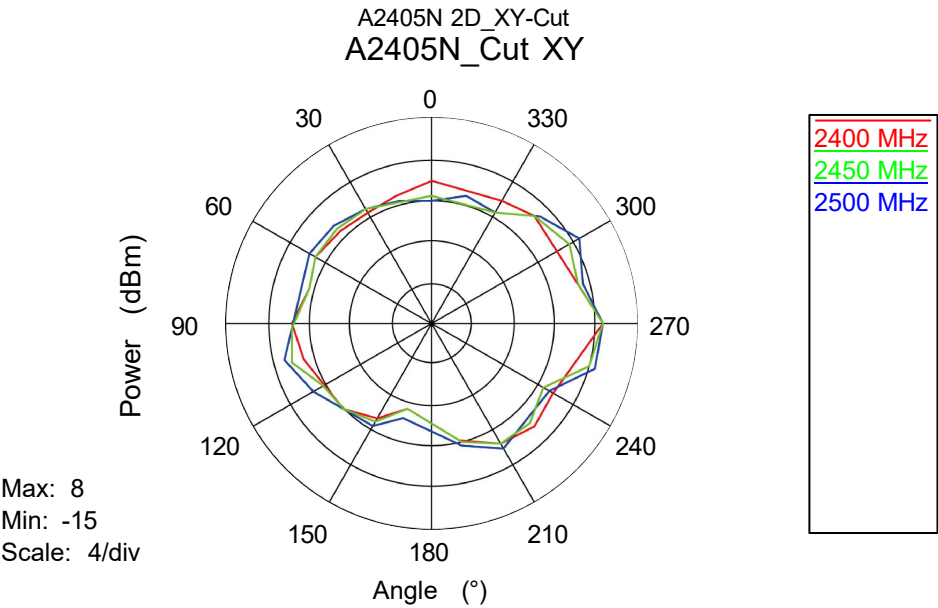
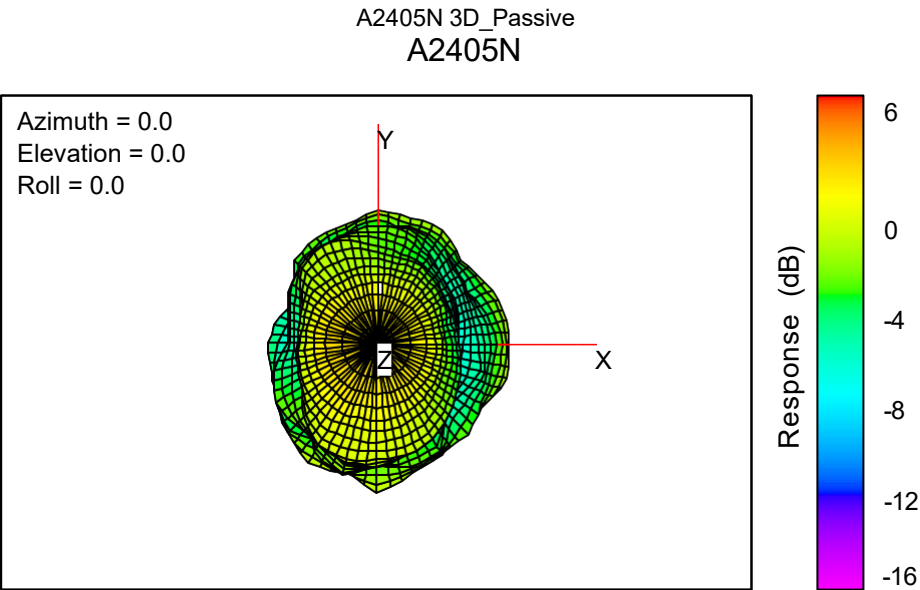
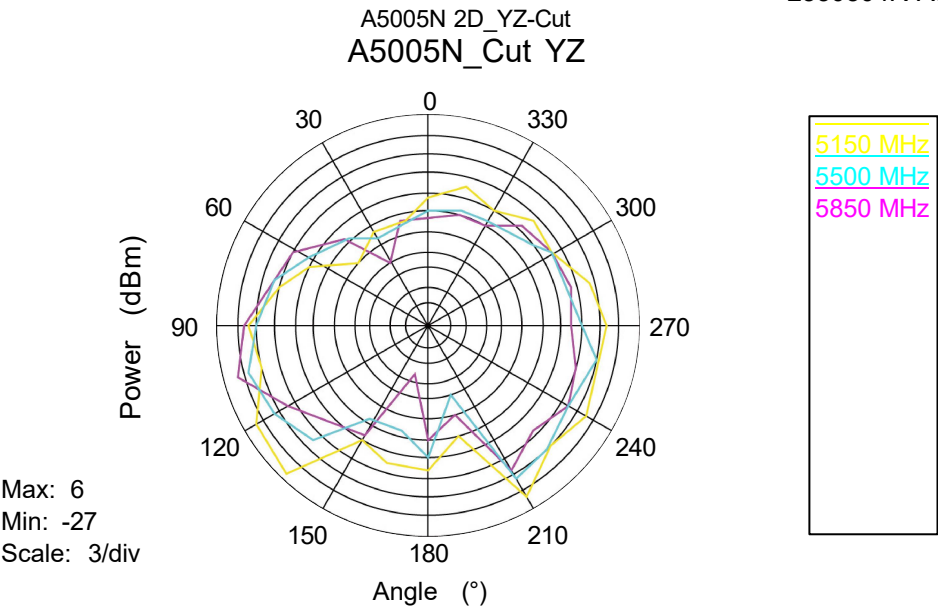


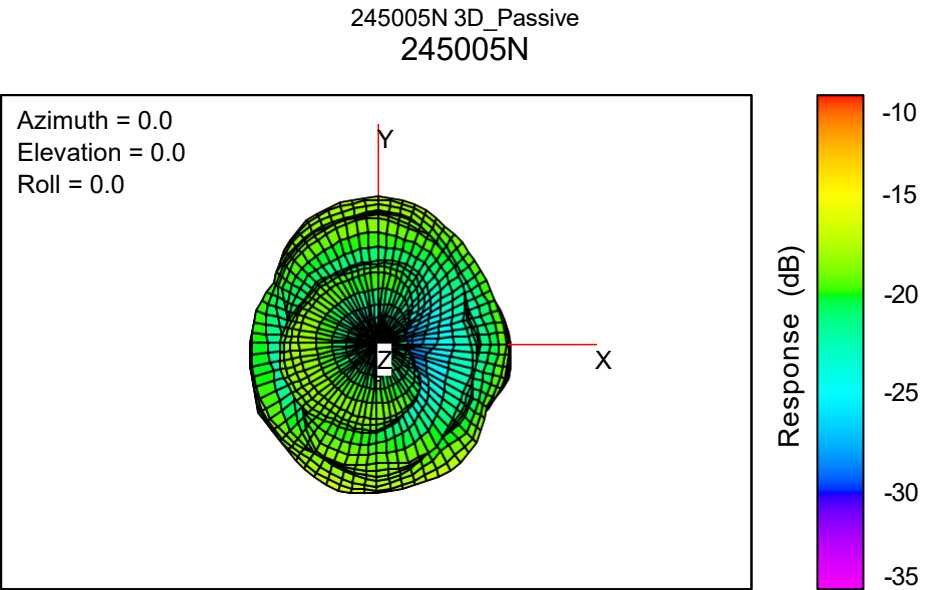
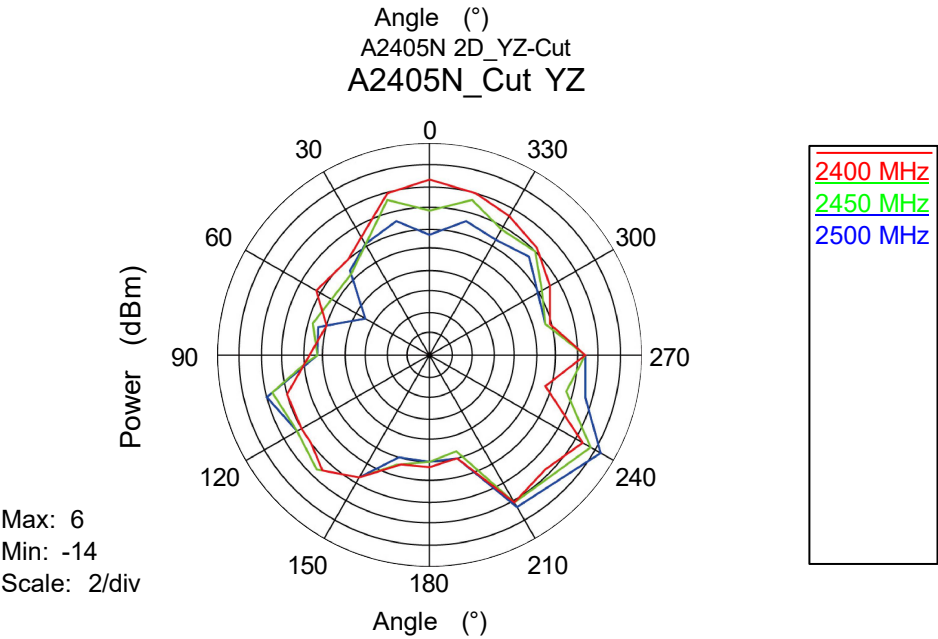
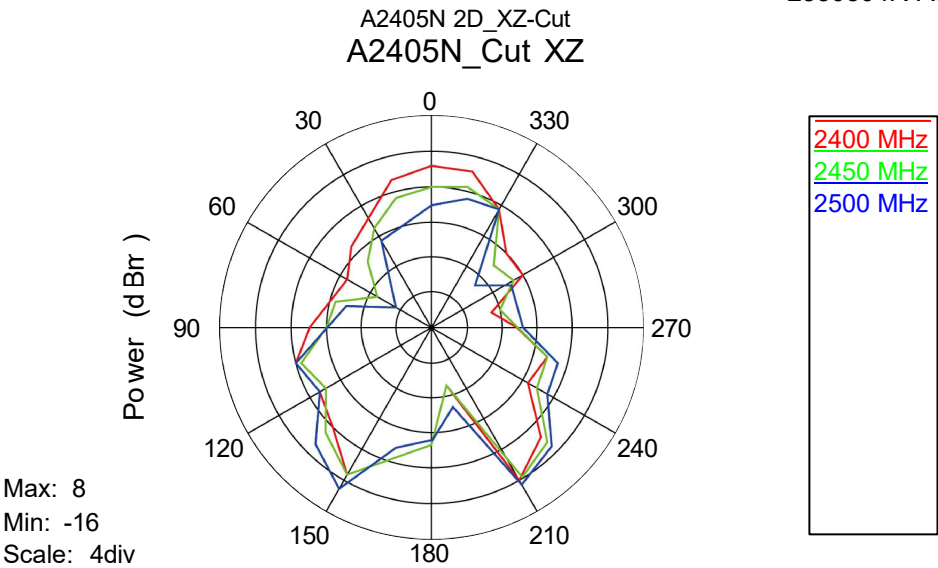
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A5005N_Cut XY

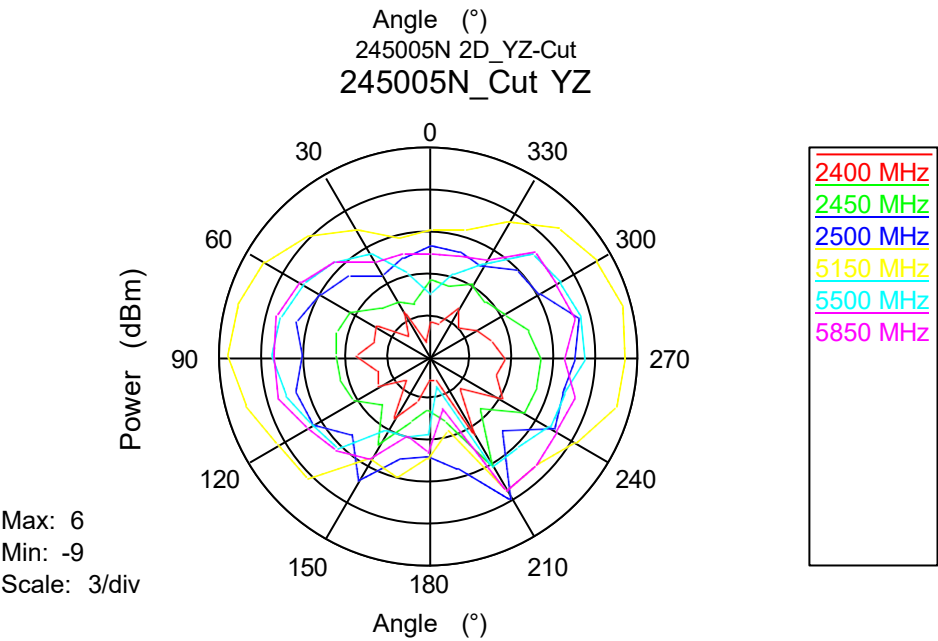
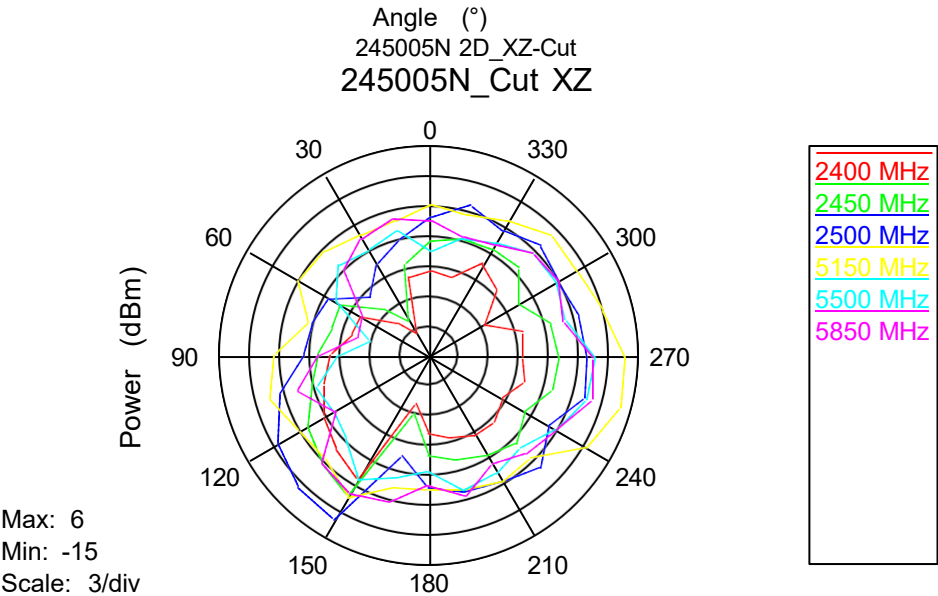
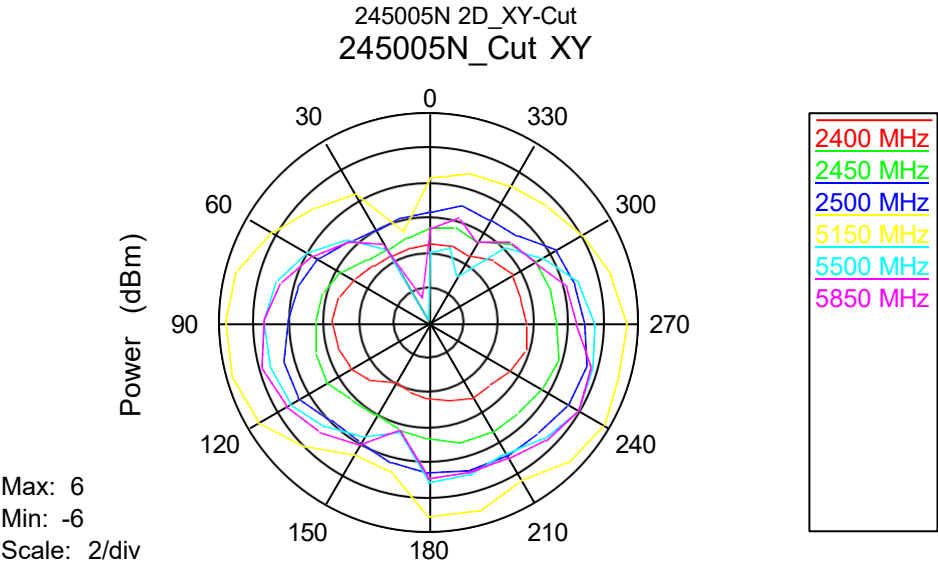


A5005N 2D_XZ-Cut
A5005N_Cut XZ

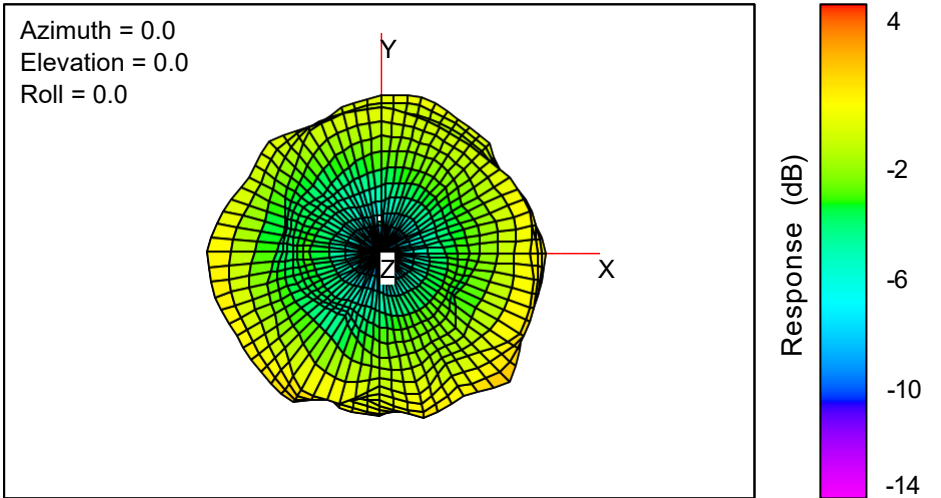




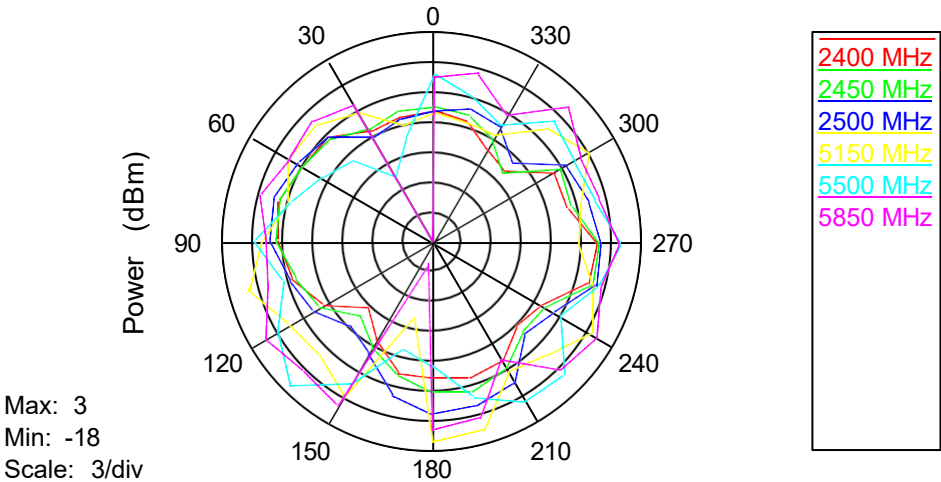




A245002 3D_Passive
A245002



A245002 2D_XY-Cut
A245002_Cut XY



A245002 2D_XZ-Cut
A245002_Cut XZ

