APPROVAL SHEET

Product name	**Ducky Antenna**
Specifications	2.4&5.8G,RPSMA-M,162mm
Model	LZANT-10026-A
Date Prepared	2022.10.12
Revision	1.0

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Product Specification

A. Electrical Characteristics		
Frequency	2400-2500MHz	5150-5850MHz
VSWR	<2.0	<2.3
Efficiency	≈70%	≈60%
Peak Gain	4dBi	5dBi
Impedance	50 Ohm	50 Ohm
Polarization	Linear	Linear

B. Material & Mechanical	
Connector Type	RPSMA-M
Dimension	162mm ± 2mm
Color	Black
Weight	0.020kg

C. Environmental	
Operation Temperature	- 40˚C ~ +80 ˚C
Storage Temperature	- 45˚C ~ +85 ˚C

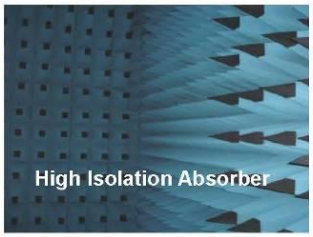
D. Photo

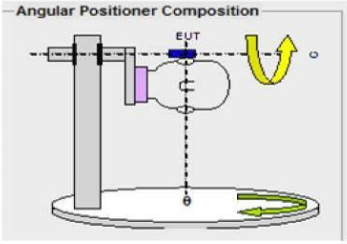
Test Equipment & Conditions

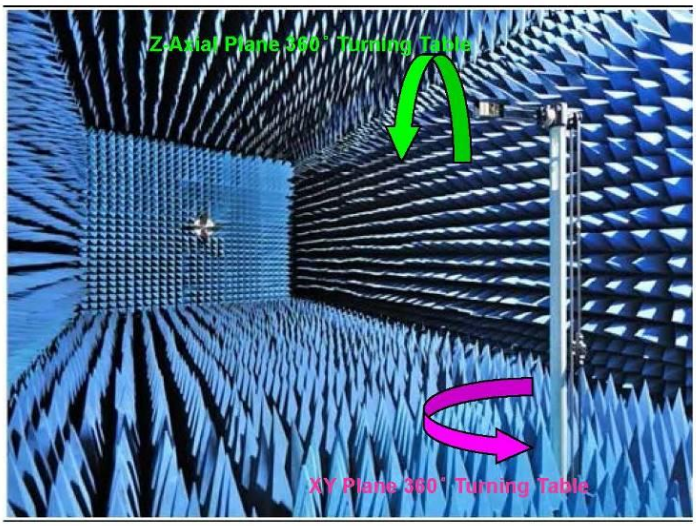
1、Network Analyzers： Keysight E5071C

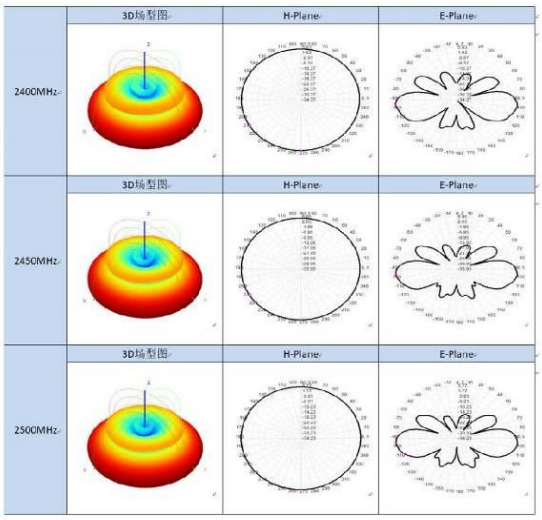
2、3D Chamber Test System

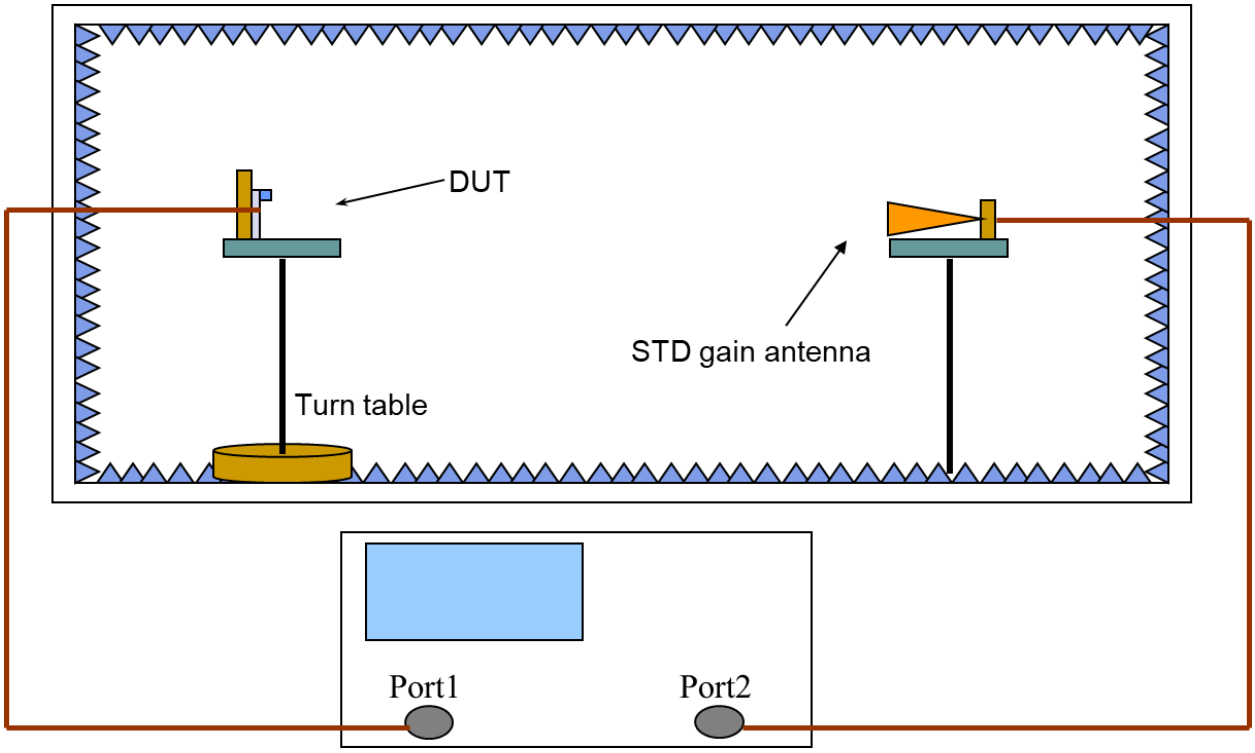
.Chamber Size: 9 x 5 x 4 m³
.Freq. Range: 0.4 ~ 18.0 GHz
.Double Ridge Horn Antenna
.VNA: Agilent E5071C
.3D Turning Table and Positioner
.ADT Solution 3D Testing Software



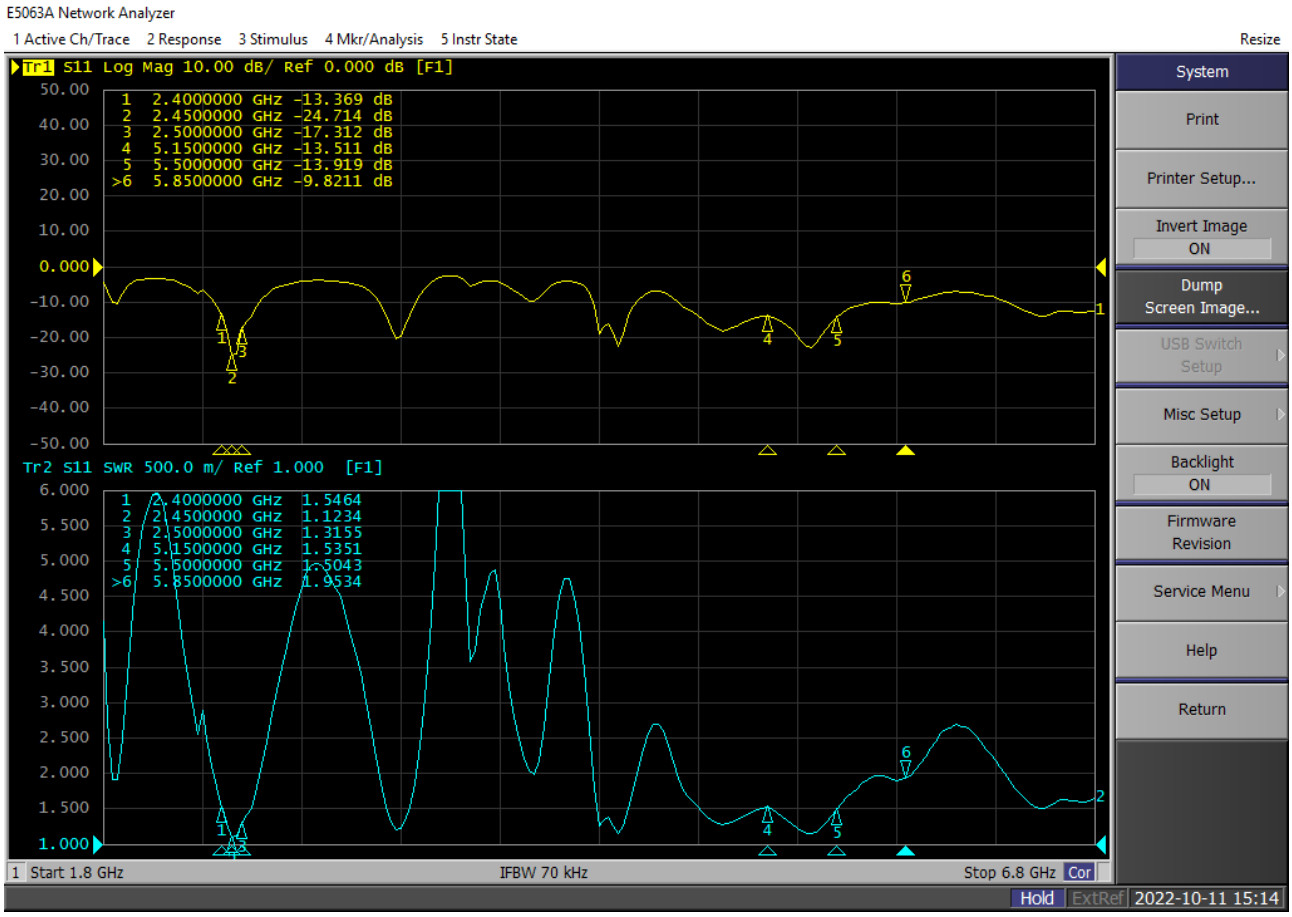








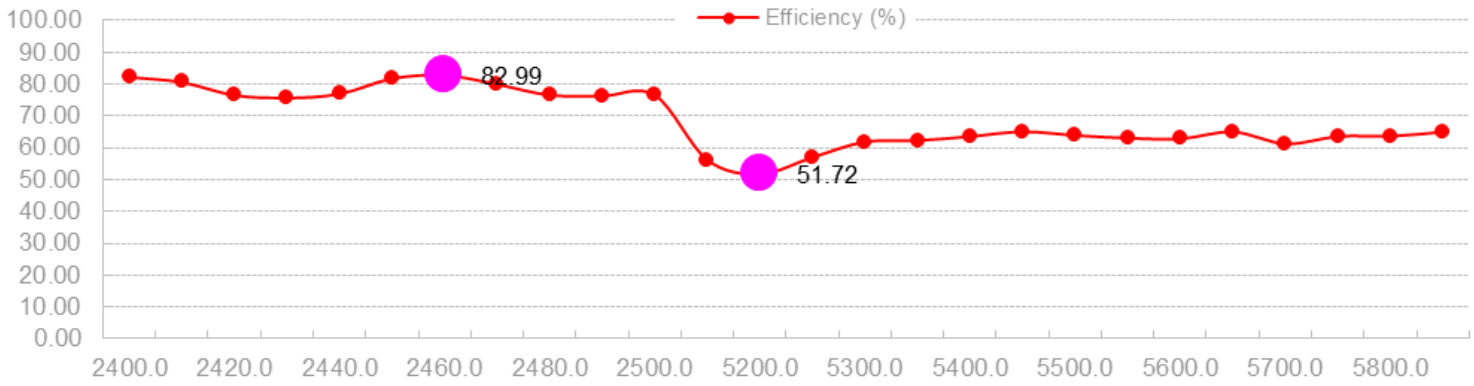
VSWR


E5063A Network Analyzer
1 Active Ch/Trace 2 Response 3 Stimulus 4 Mkr/Analysis 5 Instr State
Resize
Tr1 S11 Log Mag 10.00 dB/ Ref 0.000 dB [F1]
1 2.4000000 GHz -13.369 dB
2 2.4500000 GHz -24.714 dB
3 2.5000000 GHz -17.312 dB
4 5.1500000 GHz -13.511 dB
5 5.5000000 GHz -13.919 dB
>6 5.8500000 GHz -9.8211 dB
Tr2 S11 SWR 500.0 m/ Ref 1.000 [F1]
1 2.4000000 GHz 1.5464
2 2.4500000 GHz 1.1234
3 2.5000000 GHz 1.3155
4 5.1500000 GHz 1.5351
5 5.5000000 GHz 1.5043
>6 5.8500000 GHz 1.9534
1 Start 1.8 GHz
IFBW 70 kHz
Stop 6.8 GHz
Cor
Hold
ExtRef
2022-10-11 15:14
System
Print
Printer Setup...
Invert Image
ON
Dump
Screen Image...
USB Switch
Setup
Misc Setup
Backlight
ON
Firmware
Revision
Service Menu
Help
Return

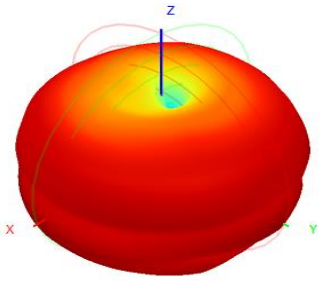
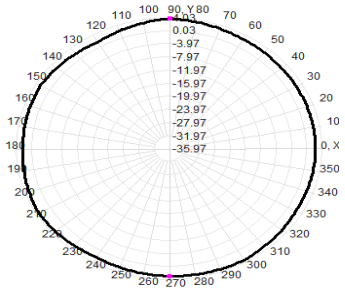
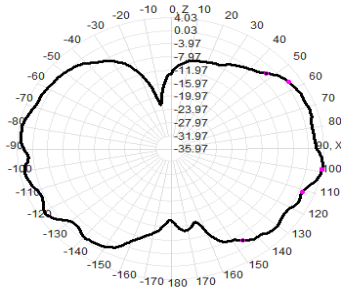
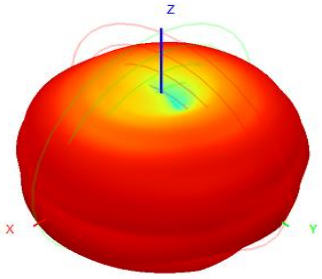
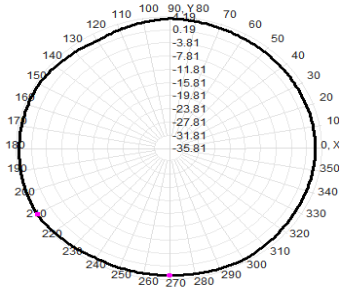
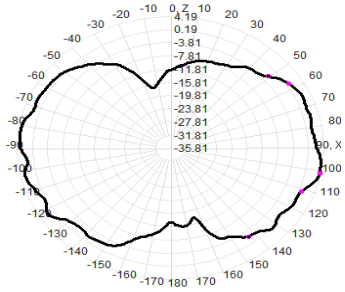
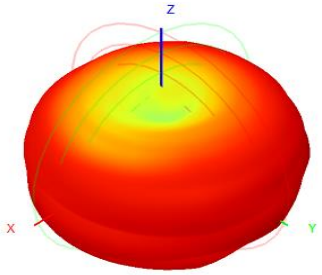
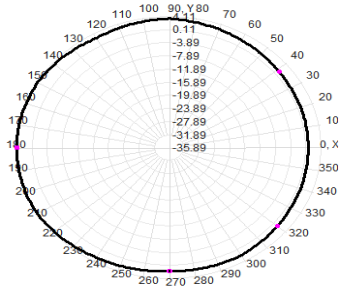
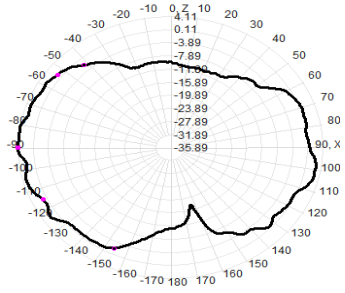
Total Efficiency& Gain:

Frequency (MHz)	2400.0	2410.0	2420.0	2430.0	2440.0	2450.0	2460.0	2470.0	2480.0	2490.0	2500.0
Gain (dBi)	4.03	3.90	3.74	3.85	4.00	4.25	4.23	4.09	4.10	4.28	4.27
Efficiency (%)	82.39	80.78	76.67	75.78	77.08	81.95	82.99	80.12	76.72	76.47	76.68

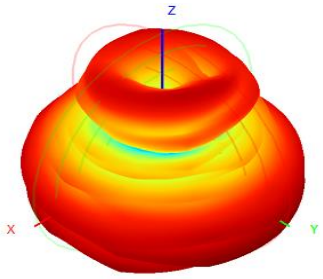
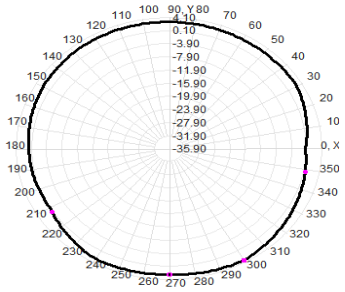
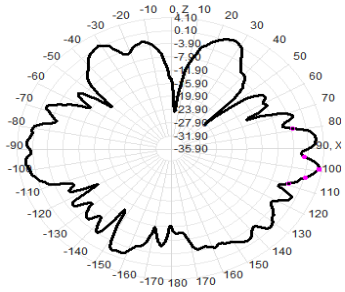
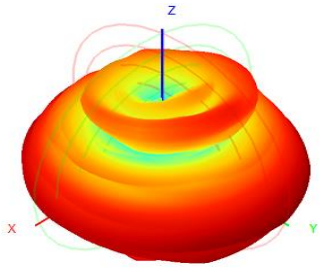
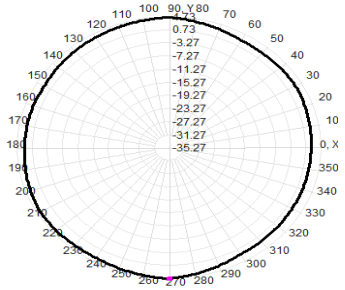
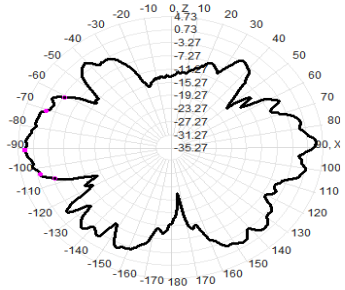
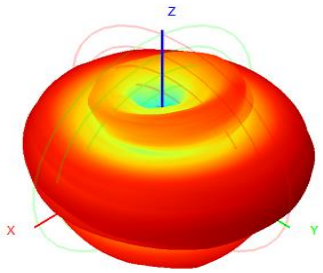
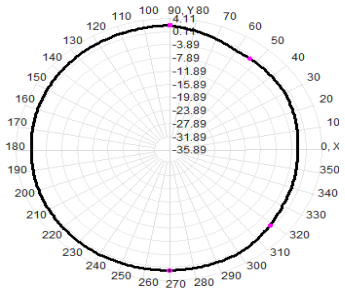
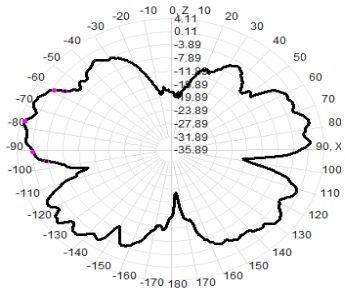
Frequency (MHz)	5150	5200	5250	5300	5350	5400	5450	5500	5550	5600	5650	5700	5750	5800	5850
Gain (dBi)	4.11	4.73	4.38	4.93	4.97	4.10	4.69	4.73	4.52	4.21	4.33	4.11	4.22	4.05	4.11
Efficiency (%)	56.15	51.72	57.05	61.91	62.36	63.62	65.13	63.95	63.05	62.89	65.07	61.28	63.66	63.70	65.08



Field diagram

	3D	2D-Horizontal plane	2D-Vertical plane
2400MHz			
2450MHz			
2500MHz			

Field diagram

	3D	2D- Horizontal plane	2D- Vertical plane
5150MHz			
5500MHz			
5850MHz