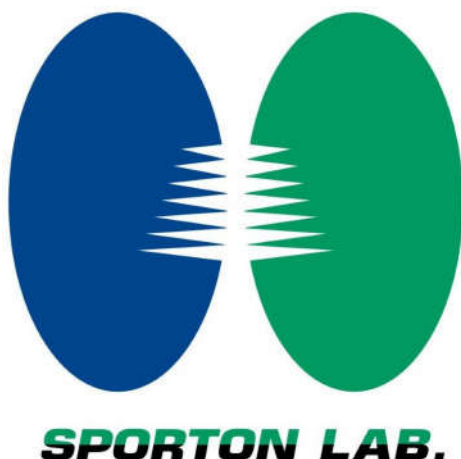




OTA Antenna Performance Data Summary

DATA NO. : OQ510904
APPLICANT : GigaDevice
MODEL NAME : GD32VW553-MINI-lxxx
EQUIPMENT NAME : GD32VW553-MINI-lxxx_PCB_Antenna
ANTENNA TYPE : PCB Antenna
DEVICE RECEIVING DATE : Jan. 22, 2025
TEST DATE : Jan. 22, 2025

Reviewed by:

Feynman Liu / Vice Manager

Approved by:

Kevin Chu / Manager

Sporton International Inc. (Kunshan)

***No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300
People's Republic of China***



Table of Contents

Revision History	3
1. Administration Data	4
1.1 Testing Laboratory	4
1.2 Applicant	4
1.3 Test Equipment List	4
2. Summary of Test Result of Antenna Gain	5
3. Free Space Position Antenna Gain Patterns	6



Revision History

DATA NO.	VERSION	DESCRIPTION	ISSUED DATE
QQ510904	1.0	Initial issue of data summary	Feb. 11, 2025
QQ510904	2.0	Add Antenna Type. This report is an update version, replacing the report issued on Feb. 11, 2025.	Apr. 01, 2025



1. Administration Data

1.1 Testing Laboratory

Test Site	Sporton International Inc. (Kunshan)
Test Site Location	No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China TEL: +86-0512-5790-0158 FAX: +86-0512-5790-0958
Chamber	☐ OTA01-KS ☐ OTA02-KS ☐ OTA03-KS ☒ OTA04-KS ☐ OTA05-KS

■: Indicates the chamber(s) used in this data summary

1.2 Applicant

Company Name	GigaDevice
Address	Building No. 8, IC Park, No. 9 Fenghao East Road, Haidian District, Beijing 100094, China

1.3 Test Equipment List

Name	Manufacturer	Type/Model	Serial Number	Calibration	
				Last Cal.	Last Cal.
Network Analyzer	Agilent	E5071C	MY46317418	2025/01/03	2026/01/02
Switch Control	ETS-Lindgren	EMCenter	00160100	NCR	NCR
Diagonal Dual Polarized Horn	ETS-Lindgren	3164-08	00099205	NCR	NCR
Multi-Devices Controller	ETS-Lindgren	2090-OPT1	00066604	NCR	NCR
Medium Duty Holder	ETS-Lindgren	2015	N/A	NCR	NCR

2. Summary of Test Result of Antenna Gain

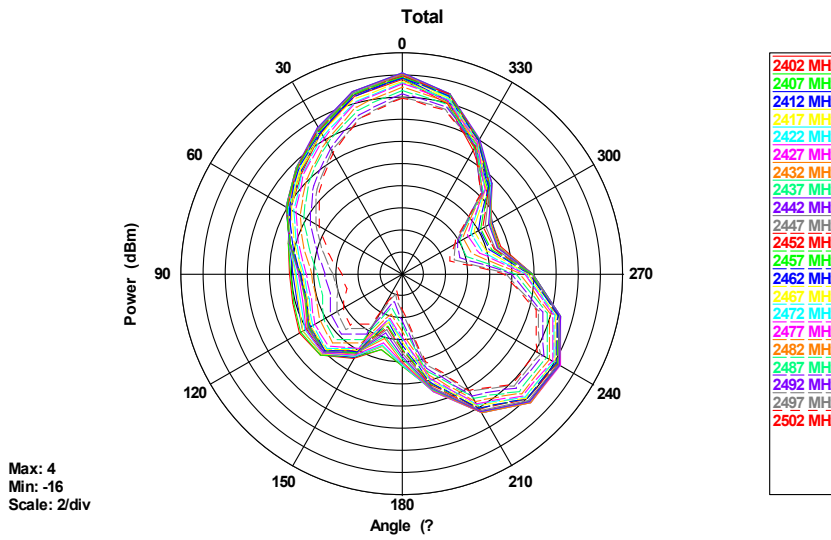
Test	Position	Frequency (MHz)	Peak Gain (dBi)	Directivity (dBi)	Efficiency (dBi)	Efficiency (%)	Note
Antenna Gain	Free Space	2402	3.6	5.2	-1.6	68.7	15°
		2407	3.6	5.2	-1.6	68.9	
		2412	3.6	5.2	-1.6	68.6	
		2417	3.6	5.2	-1.6	69.1	
		2422	3.5	5.1	-1.6	69.7	
		2427	3.4	5.0	-1.6	69.6	
		2432	3.2	4.9	-1.6	68.6	
		2437	3.1	4.8	-1.7	67.8	
		2442	2.9	4.6	-1.8	66.8	
		2447	2.5	4.4	-1.9	64.7	
		2452	2.4	4.5	-2.0	62.7	
		2457	2.4	4.5	-2.1	62.2	
		2462	2.4	4.5	-2.2	60.5	
		2467	2.2	4.6	-2.4	57.6	
		2472	2.1	4.6	-2.5	55.7	
		2477	1.9	4.6	-2.7	53.8	
		2482	1.7	4.7	-3.0	50.7	
		2487	1.5	4.7	-3.2	47.7	
		2492	1.1	4.7	-3.5	44.2	
		2497	0.8	4.7	-3.9	41.2	
		2502	0.6	4.7	-4.0	39.5	

3. Free Space Position Antenna Gain Patterns

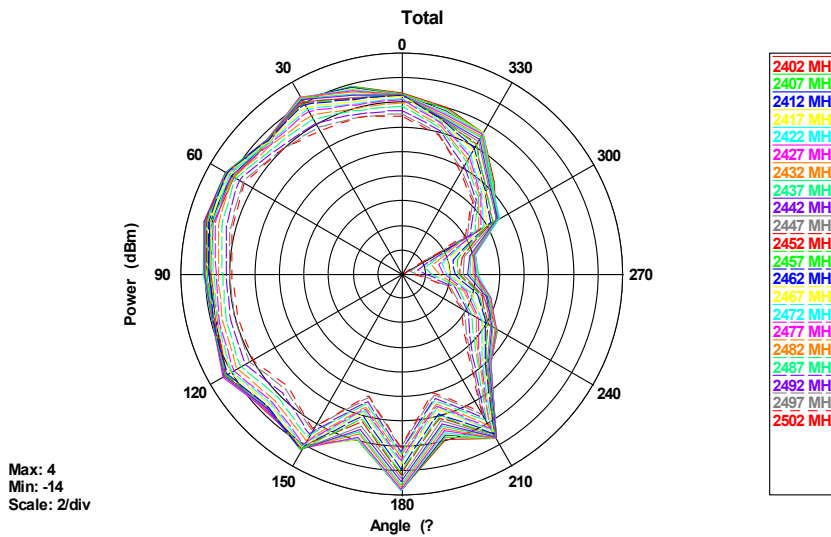
Please refer to as below.

2D Patterns

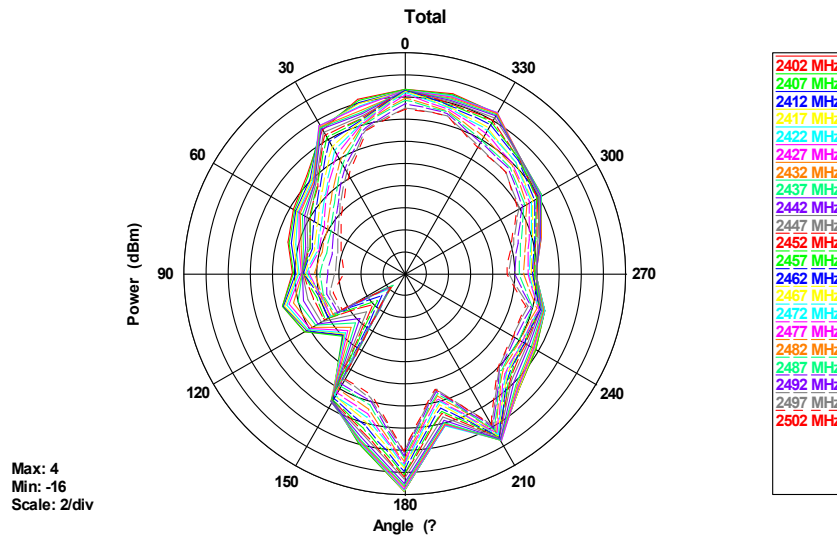
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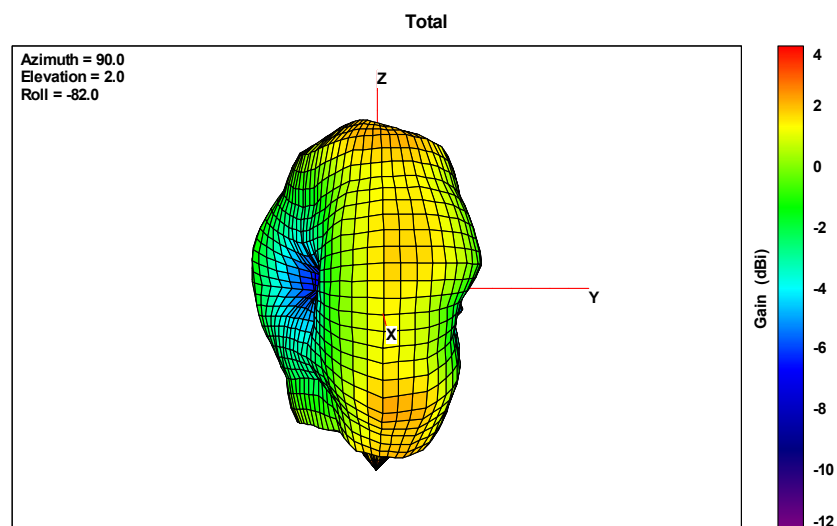
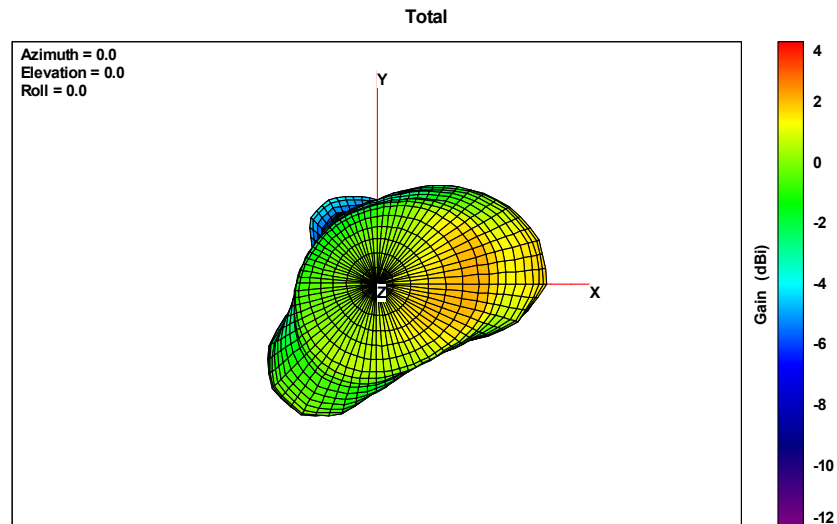
E1

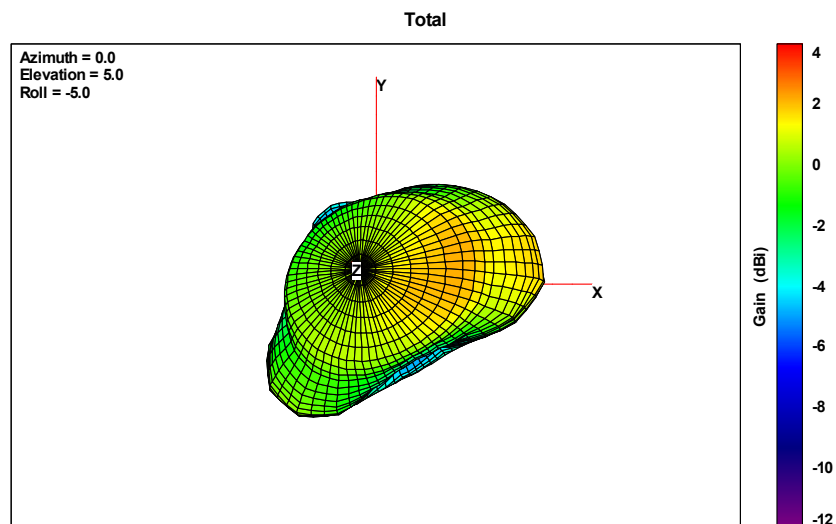
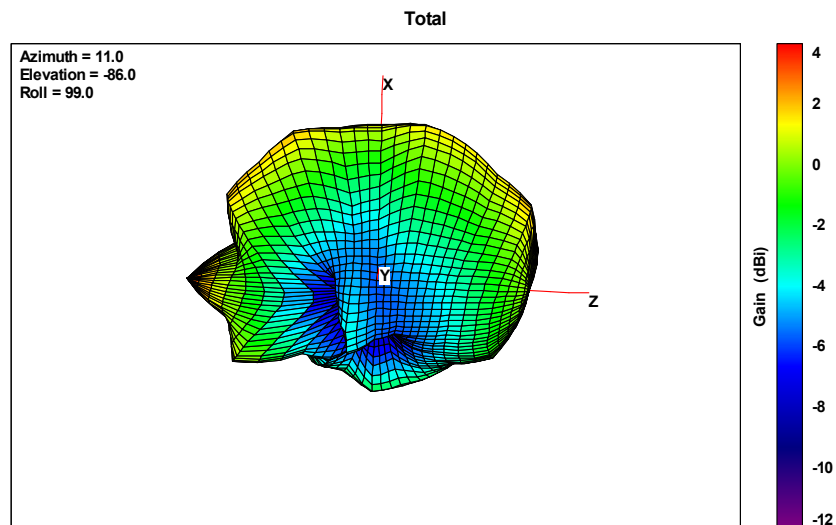


E2



3D Patterns





Test Position Free Space

--THE END--