



REPORT No.: SZ24050279E10

TEST REPORT

APPLICANT : Vaultek Safe, Inc.

PRODUCT NAME : Smart Station

MODEL NAME : DS5i-BK, DS5i-TG, DS5i-WT, DS5i-SA, DS5i-SB,
DS5i-SD, DS5i-SR, DS5i-CN, DS5i-DG

TRADE NAME : Vaultek

BRAND NAME : Vaultek

STANDARD(S) : IEEE Std 149-2021

RECEIPT DATE : 2024-06-03

TEST DATE : 2024-06-05

ISSUE DATE : 2024-07-02



Edited by:

MaoRuJie

Mao Rujie(Rapporteur)

Approved by:

Chi Shide

Chi Shide(Supervisor)

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MORLAB

Shenzhen Morlab Communications Technology Co., Ltd., FL.1-3, Building A,
FeiYang Science Park, No.8 LongChang Road,Block67, BaoAn District,
ShenZhen , GuangDong Province, P. R. China

Tel: 86-755-36698555
Http://www.morlab.cn

Fax: 86-755-36698525
E-mail: service@morlab.cn





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Change History		
Version	Date	Reason for change
1.0	2024-07-02	First edition



1. Technical Information

Note: Provide by applicant.

1.1. Applicant and Manufacturer Information

Applicant:	Vaultek Safe, Inc.
Applicant Address:	624 Douglas Ave., Suite 1412, Altamonte Springs, FL32714
Manufacturer:	Jeritech Electronics, Ltd.
Manufacturer Address:	Guannanyong Industrial Estate, Shiqi Town, Panyu, GuangZhou, China

1.2. Equipment Under Test (EUT) Description

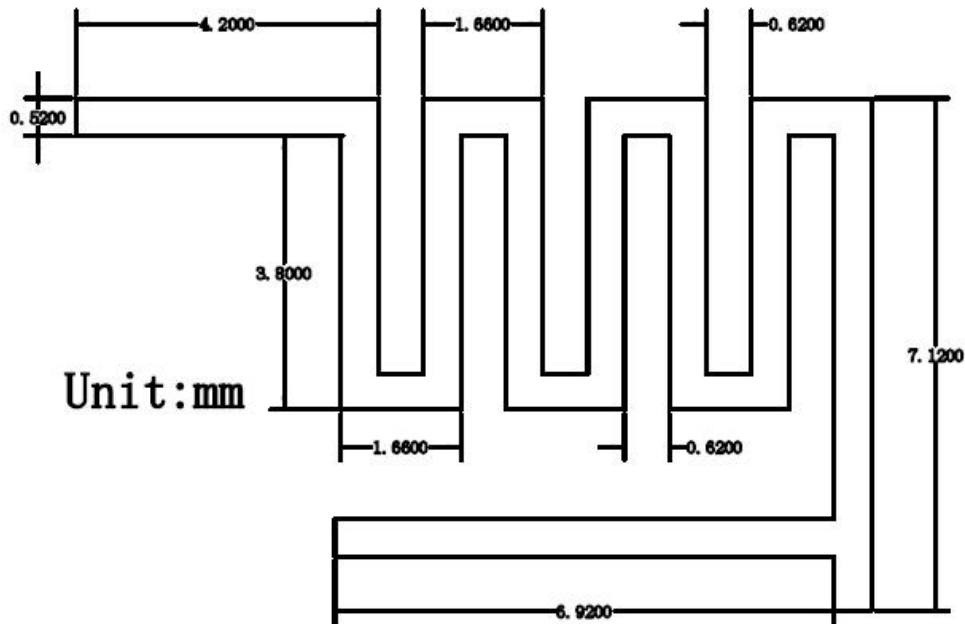
Wireless Type	Bluetooth
Frequency	2400MHz-2500MHz
Product HW Version	1.2.0
Product SW Version	1.0.0
IMEI	N/A
Sample No.	5#

Note:

Hereby, we, Vaultek safe Inc., declare that for model number:

DS5i-BK, DS5i-TG, DS5i-WT, DS5i-SA, DS5i-SB, DS5i-SD, DS5i-SR, DS5i-CN, DS5i-DG have the same hardware and software, only different for model number and colors, all RF parameters remain the same. The main measuring model is DS5i-BK.

Dimensions:



2. Test Results

2.1. Applied Reference Documents

Leading reference documents for testing:

No.	Identity	Document Title
1	IEEE Std 149-2021	IEEE Recommended Practice for Antenna Measurements

2.2. Test Conditions

Test Environment Conditions:

Relative Humidity(%):	25 - 75
Temperature(°C):	10 - 30

2.3. Measurement Uncertainty

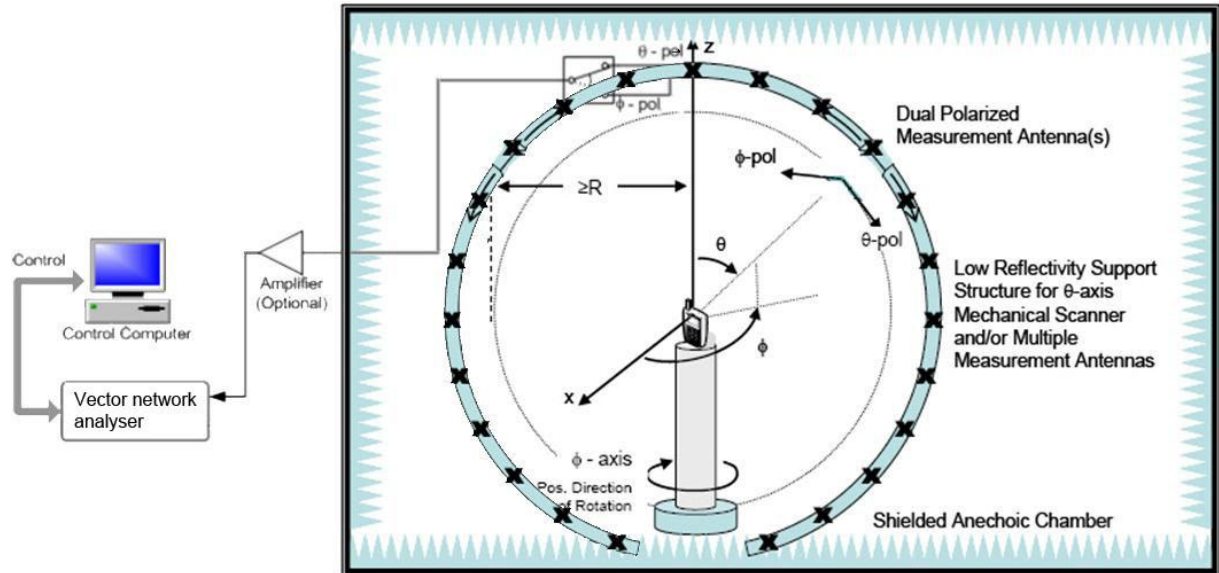
The uncertainty is calculated using the methods suggested in the “Guide to the Expression of Uncertainty in Measurement” (GUM) published by ISO. When the test result is a critical value, we will use the measurement uncertainty give the judgment result based on the 95% Confidence intervals.

2.4. Test Results lists

2.4.1. Gain

Frequency (MHz)	Gain(dBi)
2400	1.84
2410	1.84
2420	1.85
2430	1.94
2440	2.03
2450	2.04
2460	1.82
2470	1.50
2480	1.37
2490	1.21
2500	1.22

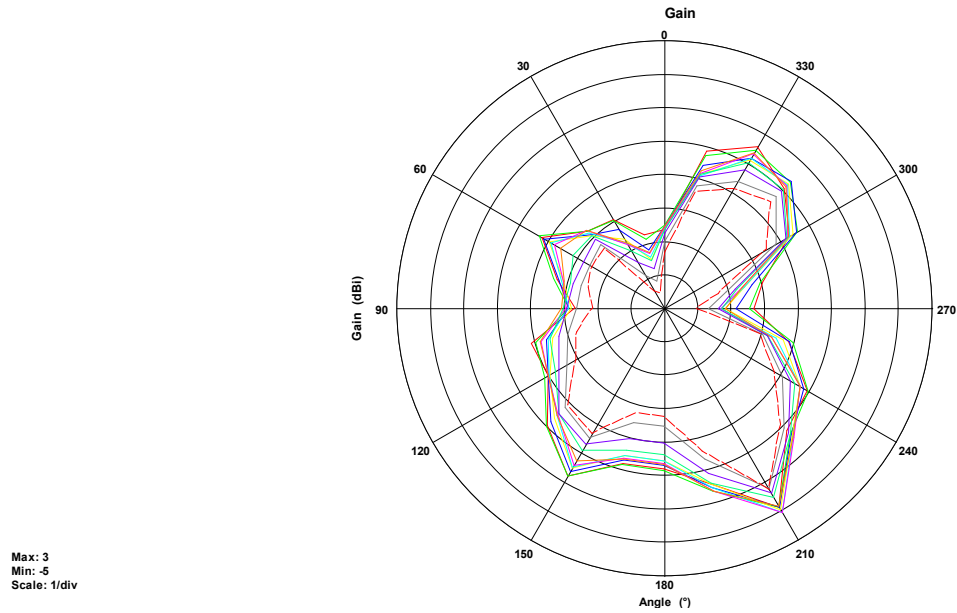
Annex A Test Setup Photos



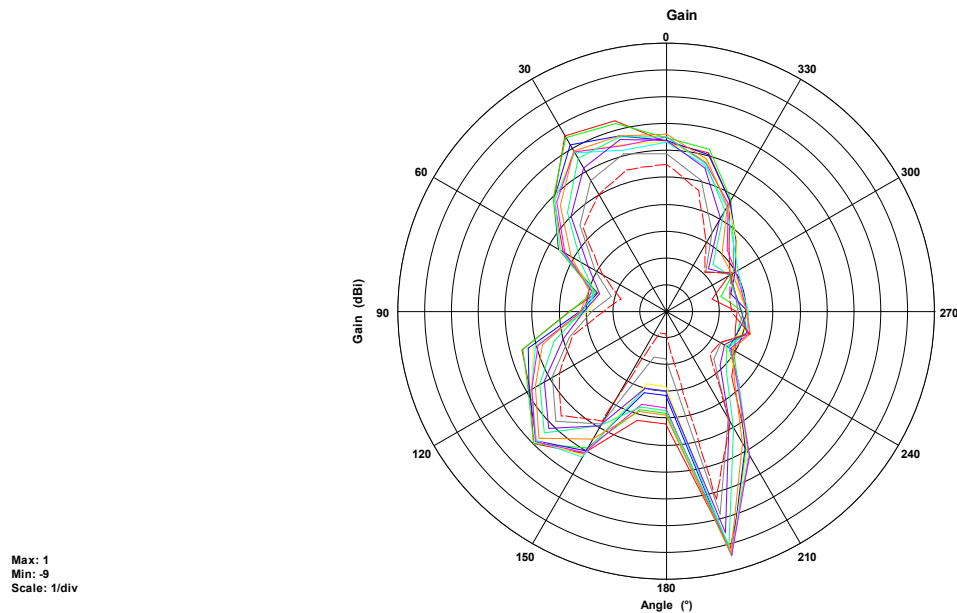


Annex B Figures

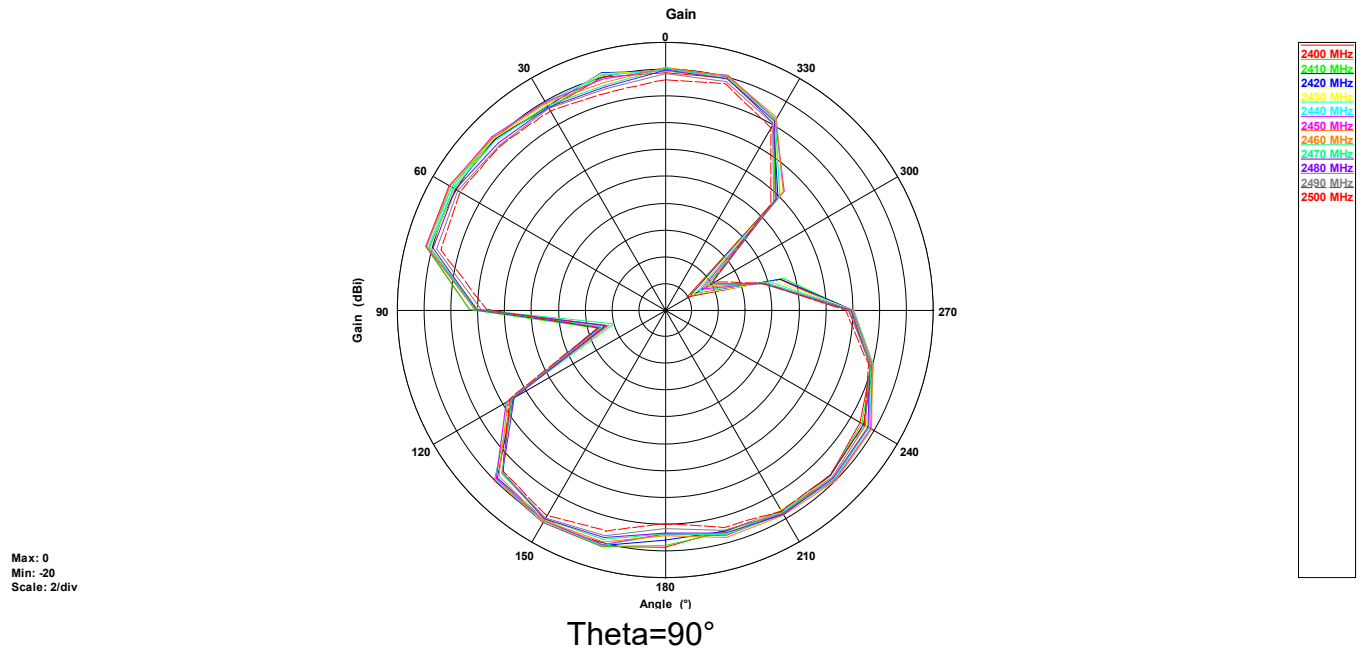
1. 2D Radiation Pattern



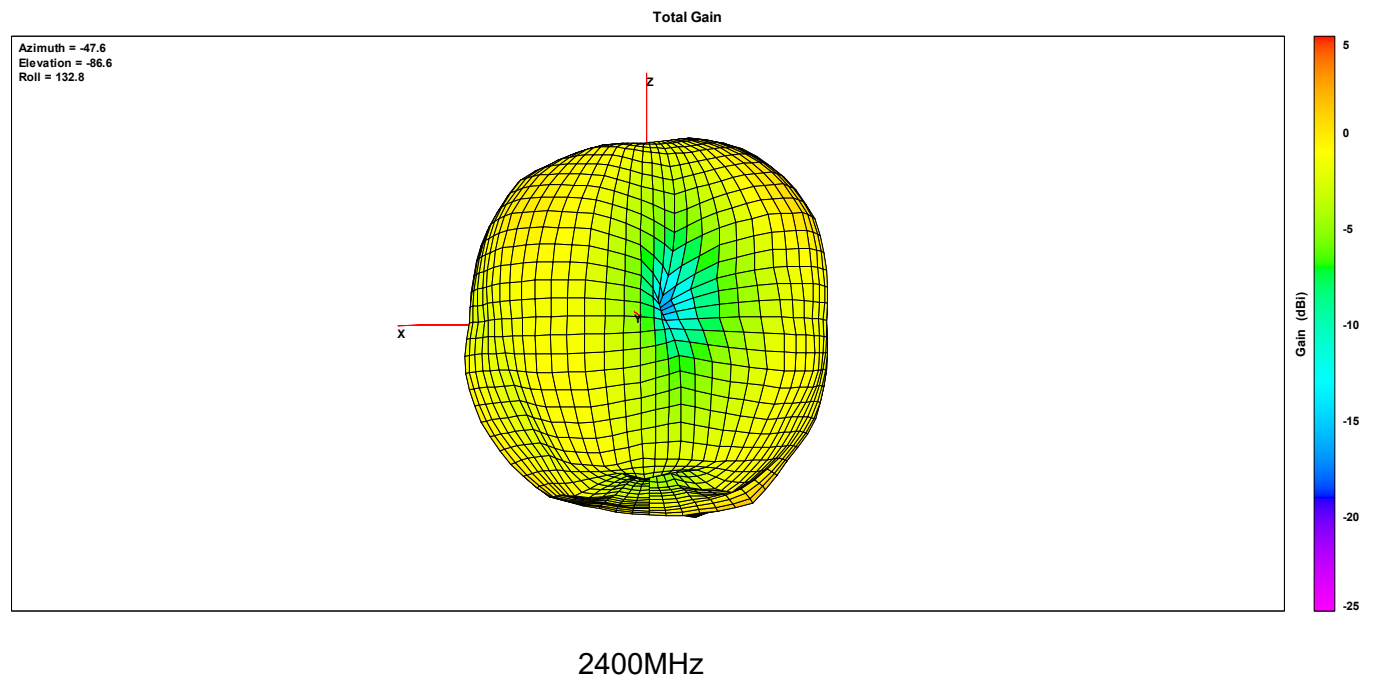
Phi=0°

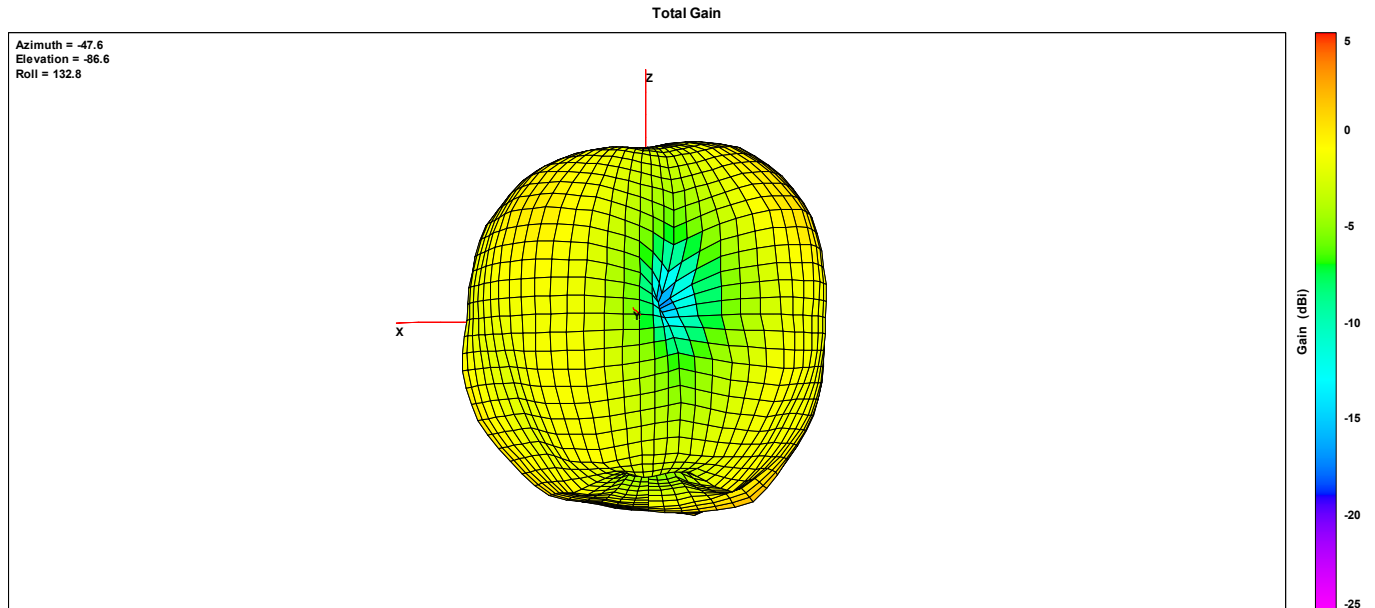


Phi=90°

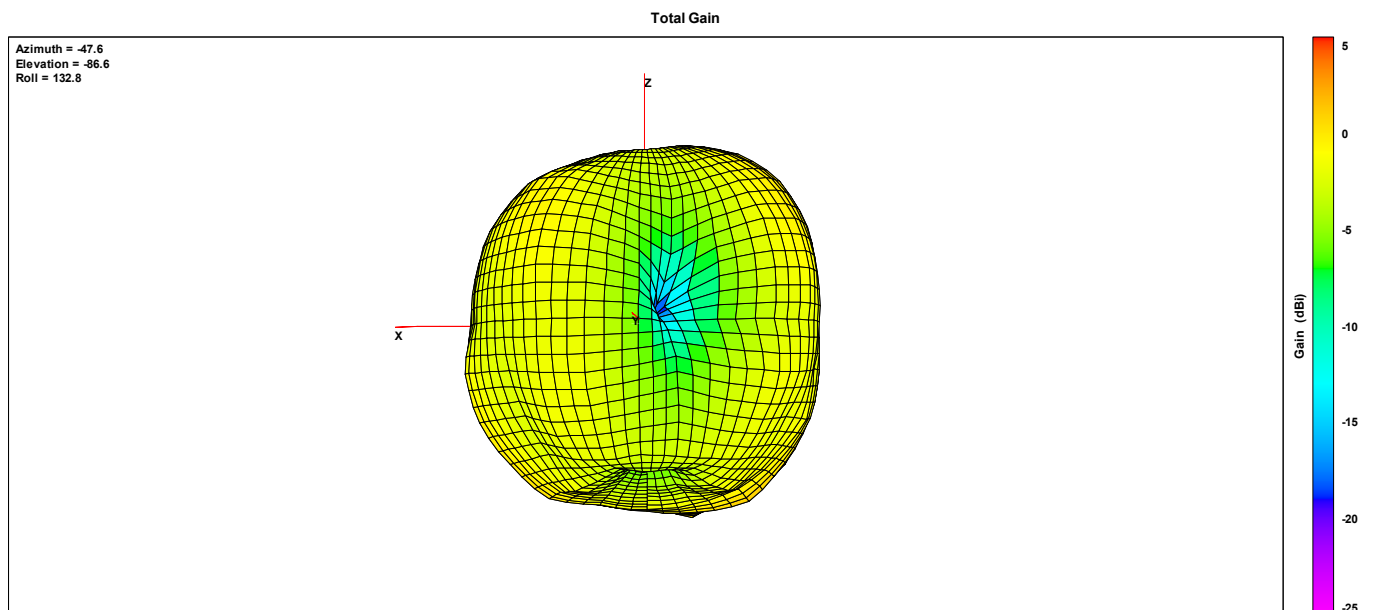


2. 3D Radiation Pattern





2440MHz



2480MHz



Annex C General Information

1.1 Identification of the Responsible Testing Laboratory

Laboratory Name:	Shenzhen Morlab Communications Technology Co., Ltd.
Laboratory Address:	FL.1-3, Building A, FeiYang Science Park, No.8 LongChang Road, Block67, BaoAn District, ShenZhen , Guangdong Province, P. R. China
Telephone:	+86 755 36698555
Facsimile:	+86 755 36698525

1.2 Identification of the Responsible Testing Location

Name:	Shenzhen Morlab Communications Technology Co., Ltd.
Address:	FL.1-3, Building A, FeiYang Science Park, No.8 LongChang Road, Block67, BaoAn District, ShenZhen , Guangdong Province, P. R. China

1.3 Test Equipments Utilized

No.	Equipement Name	Serial No.	Type	Manufacturer	Cal.Date	Cal.Due Date
1	Network Analyzer	MY46110140	E5071C	Agilent	2024.05.30	2025.05.29
2	OTA Chamber	TJ2235-Q1793	AMS-8923 -150	ETS	2022.11.30	2025.11.29

1.4 Test Software Utilized

No.	Software Name	Serial No.	Version	Manufacturer
1	Antenna Measurement System	1685	EMQuest EMQ-100 V 1.13 Build 21267	ETS

Note:The Main report is end here and the other Annex D will be submitted separately.

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