



# RF Exposure Evaluation Report

**Application No.:** DNT2505130240R4963-06159  
**Applicant:** ShenZhen V-Link Technology Co., LTD  
**Address of Applicant:** 1803, Block A, Xintianxia Bairuida Building, Vanke City Community, Bantian Street, Longgang District, Shenzhen City, Guangdong Province  
**EUT Description:** WiFi Module  
**Model No.:** H353-NS, H353-WS, H353S-NS, H353S-WS  
**FCC ID:** 2AXX8-H353-NS  
**Power supply:** DC 3.3V  
**Trade Mark:** /  
47 CFR Part 2.1091  
**Standards:** FCC KDB 447498 D01 v06  
**Date of Receipt:** 2025/05/13  
**Date of Test:** 2025/05/14 to 2025/05/28  
**Date of Issue:** 2025/05/28  
**Test Result:** **PASS**

**Prepared By:** Wayne Lin (Testing Engineer)

**Reviewed By:** Pengfei Chen (Project Engineer)

**Approved By:** Yenise Shen (Manager)



Note: If there is any objection to the results in this report, please submit a written inquiry to the company within 15 days from the date of receiving the report. The test report is effective only with both signature and specialized stamp, and is issued by the company in accordance with the requirements of the "Conditions of Issuance of Test Reports" printed in the attached page. Unless otherwise stated, the results presented in this report only apply to the samples tested this time. Partial reproduction of this report is not allowed unless approved by the company in writing.

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Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	May 28, 2025	Valid	Original Report



Contents

1 GENERAL INFORMATION .....4

1.1 TEST LOCATION .....4

1.2 GENERAL DESCRIPTION OF EUT .....4

2 RF EXPOSURE EVALUATION .....5

2.1 RF EXPOSURE COMPLIANCE REQUIREMENT .....5

2.1.1 Limits .....5

2.1.2 Test Procedure .....6

2.1.3 EUT RF Exposure Evaluation .....6



# 1 General Information

## 1.1 Test Location

Company:	Dongguan DN Testing Co., Ltd
Address:	No. 1, West Fourth Street, South Xinfu Road, Wusha Liwu, Chang ' an Town, Dongguan City, Guangdong P.R.China
Test engineer:	Wayne Lin

## 1.2 General Description of EUT

Manufacturer:	ShenZhen V-Link Technology Co., LTD
Address of Manufacturer:	1803, Block A, Xintianxia Bairuida Building, Vanke City Community, Bantian Street, Longgang District, Shenzhen City, Guangdong Province
EUT Description::	WiFi Module
Test Model No.:	H353-NS
Additional Model(s):	H353-WS, H353S-NS, H353S-WS
Chip Type:	Q353233N1100
Serial Number	PR2505130240R4963
Power Supply	DC 3.3V
Trade Mark:	N/A
Hardware Version:	V1.0
Software Version:	V1.0
Sample Type:	<input type="checkbox"/> Portable Device, <input checked="" type="checkbox"/> Module, <input checked="" type="checkbox"/> Mobile Device
Antenna Type:	<input checked="" type="checkbox"/> External, <input type="checkbox"/> Integrated
Antenna Gain:	<input checked="" type="checkbox"/> Provided by applicant
	5dBi

### Remark:

\*H353-NS and H353-WS are single-line SDIO, while H353S-NS and H353S-WS are four-line SDIO. H353-NS and H353S-NS are both without shielding covers, while H353-WS and H353S-WS are both with shielding covers. we verified all these models and only record worst results of H353-NS.

\*Since the above data and/or information is provided by the applicant relevant results or conclusions of this report are only made for these data and/or information , DNT is not responsible for the authenticity, integrity and results of the data and information and/or the validity of the conclusion.



## 2 RF Exposure Evaluation

### 2.1 RF Exposure Compliance Requirement

#### 2.1.1 Limits

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm <sup>2</sup> )	Averaging time (minutes)
<b>(A) Limits for Occupational/Controlled Exposures</b>				
0.3-3.0	614	1.63	*(100)	6
3.0-30	1842/f	4.89/f	*(900/f <sup>2</sup> )	6
30-300	61.4	0.163	1.0	6
300-1500	/	/	f/300	6
1500-100,000	/	/	5	6
<b>(B) Limits for General Population/Uncontrolled Exposure</b>				
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f <sup>2</sup> )	30
30-300	27.5	0.073	0.2	30
300-1500	/	/	f/1500	30
1500-100,000	/	/	1.0	30
F=frequency in MHz *=Plane-wave equivalent power density RF exposure compliance will need to be determined with respect to 1.1307(c) and (d) of the FCC rules. The emissions should be within the limits at 300kHz in Table 1 of 1.1310(use the 300kHz limits for 150kHz:614V/m,1.63A/m).				

#### Friis Formula

Friis transmission formula:  $P_d = (P_{out} * G) / (4 * \pi * R^2)$

Where

$P_d$  = power density in mW/cm<sup>2</sup>

$P_{out}$  = output power to antenna in mW

$G$  = gain of antenna in linear scale

$\pi$  = 3.1416

$R$  = distance between observation point and center of the radiator in cm

$P_d$  is the limit of MPE, 1 mW/cm<sup>2</sup>. If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance  $r$  where the MPE limit is reached.



## 2.1.2 Test Procedure

Software provided by client enabled the EUT to transmit data at lowest, middle and highest channel individually

## 2.1.3 EUT RF Exposure Evaluation

Antenna Gain: The maximum Gain measured in fully anechoic chamber is 2.0 / 2.0 in linear scale.

Output Power Into Antenna & RF Exposure Evaluation Distance:

This confirmed that the device comply with MPE limit.

Test Mode	Antenna	Freq(MHz)	Power [dBm]
BLE 1M	Ant1	2402	2.69
		2440	12.28
		2480	12.17
BLE 2M	Ant1	2402	2.76
		2440	12.25
		2480	12.15
11B	Ant1	2412	17.76
		2437	17.98
		2462	17.40
11G	Ant1	2412	17.40
		2437	17.37
		2462	17.12
11N20	Ant1	2412	17.48
		2437	17.55
		2462	17.30
11N40	Ant1	2422	17.70
		2437	17.47
		2452	17.42
11AX20	Ant1	2412	18.31
		2437	18.24
		2462	18.10

The Worst Mode	Antenna	Peak output power (dBm)	Target power (dBm)	MAX Target power (dBm)	Antenna gain		Power Density (S) (mW /cm²)	Limited of Power Density (S) (mW /cm²)	Test Result	Distance (cm)
					(dBi)	(Linear)				
2.4G Band										
BLE	Ant1	12.28	12±2	14	4.55	2.851	0.0142	1	Complies	20
11AX20	Ant1	18.31	18±2	20	4.55	2.851	0.0567	1	Complies	20

The End Report