



RF Exposure Evaluation Report

Application No.: DNT2510220366R11843-14711

Applicant: Shenzhen Sihaijialan Electronic Technology Co., Ltd.
301, Building 2, Hongxin Industrial Park, No.1303, Guangguang Road,
Address of Applicant: Xinlan Community, Guanlan Street, Longhua District, Shenzhen,
Guangdong, China

EUT Description: Wireless Adapter

Model No.: NF-U373

Additional Model(s): NF-U370, NF-U372, NF-U375, NF-U377, NF-U378, NF-U379, NF-U323
V2, NF-U351

FCC ID: 2BAO6-NF-U373

Power supply: DC 5V

Trade Mark: NEWFAST
47 CFR Part 2.1091

Standards: FCC KDB 447498 D01 v06

Date of Receipt: 2025/10/22

Date of Test: 2025/10/23 to 2025/11/13

Date of Issue: 2025/11/24

Test Result: **PASS**

Prepared By: Wayne Lin (Testing Engineer)

Reviewed By: Pengfei Chen (Project Engineer)

Approved By: Yousef Chen (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.



Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Nov 24, 2025	Valid	Original Report



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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 Sihaijialan Electronic Technology Co., Ltd.
Address of Manufacturer:	301, Building 2, Hongxin Industrial Park, No.1303, Guangguang Road, Xinlan Community, Guanlan Street, Longhua District, Shenzhen, Guangdong, China
EUT Description:	Wireless Adapter
Model No.:	NF-U373
Additional Model(s):	NF-U370, NF-U372, NF-U375, NF-U377, NF-U378, NF-U379, NF-U323 V2, NF-U351
Power Supply:	DC 5V
Trade Mark:	NEWFAST
Hardware Version:	V1.0
Software Version:	V1.0
Chip Type:	RTL8912AU
Serial number	PR2510220366R11843
Sample Type:	☐ Portable Device, ☐ Module, ☒ Mobile Device
Antenna Type:	☐ External, ☒ Integrated
Antenna Ports:	☒ Ant 1, ☒ Ant 2, ☐ Ant 3
Antenna Gain:	☒ Provided by applicant Ant1:3.36dBi(2.4G),3.45dBi(5G); Ant2:3.36dBi(2.4G),3.45dBi(5G);
Note: *Since the above data and/or information is provided by the client 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. *All models are just color differences, motherboard, PCB circuit board, chip, electronic components, appearance is all the same.	



1.3 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

Lab A:

• **FCC, USA**

Designation Number: CN1348

• **A2LA (Certificate No. 7050.01)**

DONGGUAN DN TESTING CO., LTD. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 7050.01.

• **Innovation, Science and Economic Development Canada**

DONGGUAN DN TESTING CO., LTD. EMC Laboratory has been recognized by ISED as an accredited testing laboratory. CAB identifier is CN0149.

IC#: 30755.

1.4 Measurement Uncertainty (95% confidence levels, k=2)

No.	Item	Measurement Uncertainty
1	20dB Emission Bandwidth	$\pm 0.0196\%$
2	Carrier Frequency Separation	$\pm 1.9\%$
3	Number of Hopping Channel	$\pm 1.9\%$
4	Time of Occupancy	$\pm 0.028\%$
5	Max Peak Conducted Output Power	± 0.743 dB
6	Band-edge Spurious Emission	± 1.328 dB
7	Conducted RF Spurious Emission	9KHz-1GHz: ± 0.746 dB 1GHz-26GHz: ± 1.328 dB

No.	Item	Measurement Uncertainty
1	Conduction Emission	± 3.0 dB (150kHz to 30MHz)
2	Radiated Emission	± 4.8 dB (Below 1GHz)
		± 4.8 dB (1GHz to 6GHz)
		± 4.5 dB (6GHz to 18GHz)
		± 5.02 dB (Above 18GHz)



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 ²)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposures				
0.3-3.0	614	1.63	*(100)	6
3.0-30	1842/f	4.89/f	*(900/f ²)	6
30-300	61.4	0.163	1.0	6
300-1500	/	/	f/300	6
1500-100,000	/	/	5	6
(B) Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f ²)	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/cm²

P_{out} = output power to antenna in mW

G = gain of antenna in linear scale

π = 3.1416

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

P_d is the limit of MPE, 1 mW/cm². 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

Test Mode	Antenna	Freq(MHz)	Power [dBm]
11B	Ant1	2412	16.18
	Ant2	2412	15.93
	Ant1	2437	16.32
	Ant2	2437	18.63
	Ant1	2462	16.02
	Ant2	2462	18.08
11G	Ant1	2412	15.58
	Ant2	2412	14.89
	Ant1	2437	16.25
	Ant2	2437	17.68
	Ant1	2462	15.99
	Ant2	2462	17.95
11N20MIMO	Ant1	2412	15.40
	Ant2	2412	15.11
	ANT1+2	2412	18.27
	Ant1	2437	15.86
	Ant2	2437	18.34
	ANT1+2	2437	20.28
	Ant1	2462	14.68
	Ant2	2462	17.20
	ANT1+2	2462	19.13
11N40MIMO	Ant1	2422	14.45
	Ant2	2422	14.04
	ANT1+2	2422	17.26
	Ant1	2437	15.80
	Ant2	2437	17.33
	ANT1+2	2437	19.64



	Ant1	2452	15.40
	Ant2	2452	17.56
	ANT1+2	2452	19.62
11AX20MIMO	Ant1	2412	13.10
	Ant2	2412	12.69
	ANT1+2	2412	15.91
	Ant1	2437	13.45
	Ant2	2437	15.16
	ANT1+2	2437	17.40
	Ant1	2462	13.36
	Ant2	2462	15.75
	ANT1+2	2462	17.73
11AX40MIMO	Ant1	2422	13.81
	Ant2	2422	13.46
	ANT1+2	2422	16.65
	Ant1	2437	14.17
	Ant2	2437	15.27
	ANT1+2	2437	17.77
	Ant1	2452	14.33
	Ant2	2452	15.99
	ANT1+2	2452	18.25
11A	Ant1	5180	16.92
	Ant2	5180	15.80
	Ant1	5200	16.92
	Ant2	5200	15.96
	Ant1	5240	16.70
	Ant2	5240	15.06
	Ant1	5745	17.61
	Ant2	5745	14.76
	Ant1	5785	16.67
	Ant2	5785	14.74
	Ant1	5825	16.02
	Ant2	5825	15.63
11N20MIMO	Ant1	5180	15.09



		Ant2	5180	16.39
		ANT1+2	5180	18.80
		Ant1	5200	14.91
		Ant2	5200	16.80
		ANT1+2	5200	18.97
		Ant1	5240	13.95
		Ant2	5240	15.08
		ANT1+2	5240	17.56
		Ant1	5745	15.50
		Ant2	5745	12.88
		ANT1+2	5745	17.39
		Ant1	5785	14.94
		Ant2	5785	15.58
		ANT1+2	5785	18.28
		Ant1	5825	15.17
		Ant2	5825	14.71
		ANT1+2	5825	17.96
11N40MIMO		Ant1	5190	13.98
		Ant2	5190	3.63
		ANT1+2	5190	14.36
		Ant1	5230	14.24
		Ant2	5230	16.37
		ANT1+2	5230	18.44
		Ant1	5755	16.27
		Ant2	5755	14.43
		ANT1+2	5755	18.46
		Ant1	5795	15.39
		Ant2	5795	14.49
		ANT1+2	5795	17.97
11AC20MIMO		Ant1	5180	13.68
		Ant2	5180	15.24
		ANT1+2	5180	17.54
		Ant1	5200	14.22
		Ant2	5200	15.74



		ANT1+2	5200	18.06
		Ant1	5240	13.87
		Ant2	5240	14.66
		ANT1+2	5240	17.29
		Ant1	5745	15.53
		Ant2	5745	13.58
		ANT1+2	5745	17.67
		Ant1	5785	15.38
		Ant2	5785	14.25
		ANT1+2	5785	17.86
		Ant1	5825	15.48
		Ant2	5825	14.90
		ANT1+2	5825	18.21
	11AC40MIMO	Ant1	5190	14.28
		Ant2	5190	16.77
		ANT1+2	5190	18.71
		Ant1	5230	14.29
		Ant2	5230	16.13
		ANT1+2	5230	18.32
		Ant1	5755	16.19
		Ant2	5755	13.83
		ANT1+2	5755	18.18
		Ant1	5795	15.56
		Ant2	5795	14.72
		ANT1+2	5795	18.17
	11AC80MIMO	Ant1	5210	14.21
		Ant2	5210	15.53
		ANT1+2	5210	17.93
		Ant1	5775	15.50
		Ant2	5775	14.35
		ANT1+2	5775	17.97
	11AX20MIMO	Ant1	5180	13.88
		Ant2	5180	5.26
		ANT1+2	5180	14.44



	Ant1	5200	11.78
	Ant2	5200	16.85
	ANT1+2	5200	18.03
	Ant1	5240	12.35
	Ant2	5240	15.66
	ANT1+2	5240	17.32
	Ant1	5745	7.45
	Ant2	5745	14.24
	ANT1+2	5745	14.24
	Ant1	5785	15.75
	Ant2	5785	16.39
	ANT1+2	5785	19.09
	Ant1	5825	12.09
	Ant2	5825	11.83
	ANT1+2	5825	14.97
11AX40MIMO	Ant1	5190	9.14
	Ant2	5190	15.54
	ANT1+2	5190	16.44
	Ant1	5230	11.48
	Ant2	5230	12.76
	ANT1+2	5230	15.18
	Ant1	5755	16.84
	Ant2	5755	7.19
	ANT1+2	5755	17.29
	Ant1	5795	15.83
	Ant2	5795	9.09
	ANT1+2	5795	16.66
11AX80MIMO	Ant1	5210	10.42
	Ant2	5210	12.19
	ANT1+2	5210	14.40
	Ant1	5775	16.80
	Ant2	5775	15.15
	ANT1+2	5775	18.91
11AX160MIMO	Ant1	5250	8.53



	Ant2	5250	12.77
	ANT1+2	5250	14.16

The Worst Mode	Antenna	MAX output power (dBm)	Target power (dBm)	MAX Target power (dBm)	Antenna gain		Power Density (S) (mW/cm ²)	Limited of Power Density (S) (mW/cm ²)	Test Result	Distance (cm)
					(dBi)	(Linear)				
11B(2.4G)	Ant1	18.63	18±1	19	3.36	2.1677	0.0343	1	Complies	20
11G(2.4G)	Ant2	17.95	18±1	19	3.36	2.1677	0.0343	1	Complies	20
11A(5G)	Ant1	17.61	17±1	18	3.45	2.2131	0.0278	1	Complies	20
	Ant2	16.80	17±1	18	3.45	2.2131	0.0278	1	Complies	20

2.4G:ANT1+ANT2

MAX Power Density (S) (mW/cm ²) ANT1	MAX Power Density (T) (mW/cm ²) ANT2	Total Radio	Limit	Result
0.0343	0.0343	0.0686	1	Complies

5G:Ant1+Ant2

MAX Power Density (U) (mW/cm ²) ANT1	MAX Power Density (V) (mW/cm ²) ANT2	Total Radio	Limit	Result
0.0278	0.0278	0.0556	1	Complies

2.4G+5G

MAX Power Density (W) (mW/cm ²) 2.4G	MAX Power Density (X) (mW/cm ²) 5G	Total Radio	Limit	Result
0.0686	0.0556	0.1242	1	Complies

The End Report

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