

FCC RF Exposure Exemption report

for

DATAHUB PRO

Model No.: DATAHUB-PRO

FCC ID: TKZAP7621-RDS

of

Applicant: AsiaRF Co., Ltd.

**Address: 2F, No. 53 Minguang Rd., Yonghe Dist., New Taipei City,
234040, Taiwan, R.O.C.**

Tested and Prepared

by

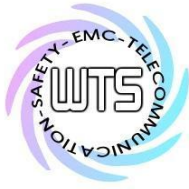
Worldwide Testing Services (Taiwan) Co., Ltd.

FCC Registration No.: TW1072, TW1140, TW1146, TW1477, TW0037

Industry Canada filed test laboratory Reg. No.: 20037, 5107A



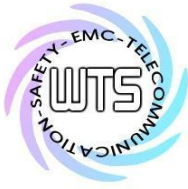
Report No.: W6M22506-24518-EE



Registration number: W6M22506-24518-EE
FCC ID: TKZAP7621-RDS

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1 General Information

1.1 Notes

The purpose of conformity testing is to increase the probability of adherence to the essential requirements or conformity specifications, as appropriate.

The complexity of the technical specifications, however, means that full and thorough testing is impractical for both technical and economic reasons.

Furthermore, there is no guarantee that a test sample which has passed all the relevant tests conforms to a specification.

Neither is there any guarantee that such a test sample will interwork with other genuinely open systems.

The existence of the tests nevertheless provides the confidence that the test sample possesses the qualities as maintained and that its performance generally conforms to representative cases of communications equipment.

Laboratory disclaimer-

1. The test results of this test report relate exclusively to the item tested as specified in 1.5.
2. The test report may only be reproduced or published in full.
3. Reproduction or publication of extracts from the report requires the prior written approval of the Worldwide Testing Services(Taiwan) Co., Ltd.
4. Antenna gain is provided by applicant and laboratory issue relevant data and results.

Tester:

January 06, 2026

Rick Chen

Rick Chen.

Date

WTS-Lab.

Name

Signature

Technical responsibility for area of testing:

January 06, 2026

Kevin Wang

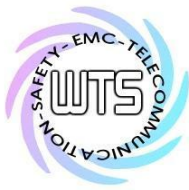
Kevin Wang

Date

WTS

Name

Signature



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1.2 Testing laboratory

1.2.1 Location

10m OATS

No.5-1, Lishui, Shuang Sing Village, Wanli Dist.,
New Taipei City 207, Taiwan (R.O.C.)

3 meter semi-anechoic chamber

No. 99, Sec. 1, Balian Rd., Xizhi Dist.,
New Taipei City 221032, Taiwan (R.O.C.)

Worldwide Testing Services (Taiwan) Co., Ltd.
6F., No. 58, Ln. 188, Ruiguang Rd., Neihu Dist.,
Taipei City 114, Taiwan (R.O.C.)
Tel: 886-2-6606-8877

1.2.2 Details of accreditation status

Accredited testing laboratory

FCC filed test laboratory Reg. No.: TW1072, TW1140, TW1146, TW1477, TW0037

Industry Canada filed test laboratory Reg. No.: 20037, 31634

Test location, where different from Worldwide Testing Services (Taiwan) Co., Ltd. :

Name: ./.
Accredited no.: ./.
Street: ./.
Town: ./.
Country: ./.

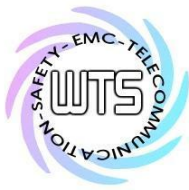
1.3 Application details

Approval holder

Name: AsiaRF Co., Ltd.
Street: 2F, No. 53 Minquan Rd., Yonghe Dist.,
City: New Taipei City, 234040,
Country: Taiwan, R.O.C.

Manufacturer: (if applicable)

Name: ./.
Street: ./.
Town: ./.
Country: ./.



Registration number: W6M22506-24518-EE
FCC ID: TKZAP7621-RDS

Date of receipt of test item: July 30, 2025

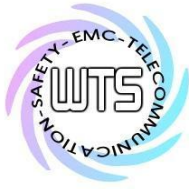
Date of test: from July 31, 2025 to December 16, 2025

1.4 General information of Test item

Type of test item: DATAHUB PRO
Model no.: DATAHUB-PRO
Multi-listing model no.: ./.
Brand name: PredictWind
Power supply: Adaptor (I/P: 100-240V~50/60 Hz 1.2A MAX.
O/P: 12.0V, 3.0A, 36.0W)
Type of antenna: PCB antenna
Antenna gain: WLAN 2.4G: 1.5dBi
WLAN 5G: 1.0dBi
GSMA: 2.13dBi
WCDMA: 1.38dBi
LTE: 2.13dBi

Technical data:

WLAN 2.4G		
Mode	Channel	Conducted Power (dBm)
802.11b	Ch 1 : 2412 MHz	19.87
	Ch 6 : 2437 MHz	19.84
	Ch 11 : 2462 MHz	19.61
802.11g	Ch 1 : 2412 MHz	19.86
	Ch 6 : 2437 MHz	20.00
	Ch 11 : 2462 MHz	18.41
802.11ax20MHz	Ch 1 : 2412 MHz	21.48
	Ch 6 : 2437 MHz	21.60
	Ch 11 : 2462 MHz	21.24
802.11ax40MHz	Ch 1 : 2422 MHz	20.39
	Ch 4 : 2437 MHz	20.43
	Ch 7 : 2452 MHz	19.33



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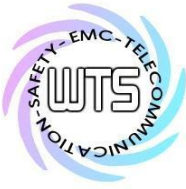
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WLAN 5G			
Band	Mode	Channel	Conducted Power (dBm)
NII-1	802.11a	Ch 36 : 5180 MHz	18.75
		Ch 44 : 5220 MHz	19.25
		Ch 48 : 5240 MHz	18.81
	802.11ax20MHz	Ch 36 : 5180 MHz	21.25
		Ch 44 : 5220 MHz	21.65
		Ch 48 : 5240 MHz	21.27
	802.11ax40MHz	Ch 38 : 5190 MHz	21.92
		Ch 46 : 5230 MHz	21.76
	802.11ax80MHz	Ch 42 : 5210 MHz	21.48
NII-3	802.11a	Ch 149 : 5745 MHz	19.13
		Ch 157 : 5785 MHz	20.26
		Ch 165 : 5825 MHz	19.31
	802.11ax20MHz	Ch 149 : 5745 MHz	21.44
		Ch 157 : 5785 MHz	22.48
		Ch 165 : 5825 MHz	21.61
	802.11ax40MHz	Ch 151 : 5755 MHz	21.86
		Ch 159 : 5795 MHz	22.27
	802.11ax80MHz	Ch 155: 5775 MHz	21.69

GSMA/WCDMA/LTE		
Technology	Frequency(MHz)	EIRP/ERP (dBm)
GSMA	824.2-848.8	32.93
WCDMA	1850.2-1909.8	24.46
LTE	826.4-846.6	23.62

Operation modes: Duplex
Modulation type: WLAN: DSSS/OFDM
LTE: QPSK, 16QAM
Sample no.: #04
Classification:

Fixed Device	☐
Mobile Device (Human Body distance > 20cm)	☒
Portable Device (Human Body distance < 20cm)	☐



Registration number: W6M22506-24518-EE

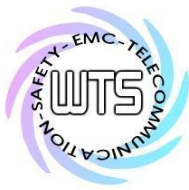
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1.5 Test standards

47 CFR FCC Part 1 Subpart I, section (1.1310)

FCC KDB Publication

447498 D01 General RF Exposure Guidance v06



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2 Test configuration

2.1 Test environment

Relative humidity content: 20 ... 75 %

Air pressure: 86 ... 103 kPa

Extreme conditions parameters: ./.

2.2 Measurement uncertainty

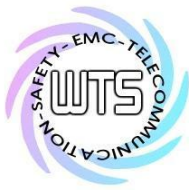
Test item Name	Uncertainty
Estimation Result of Uncertainty of Conducted Output Power Measurement (Peak Output Power (transmitter))	Expanded Uncertainty : 1.63 dB

The decision rule is: Measurement uncertainty is not included in the calculation of test results.

2.3 Test Equipment List

Max Output Power

Code No.	Test equipment	Mode No.	Serial No.	Brand	Cal. Date	Next Cal. Date
ETSTW-RE 050	Attenuator 10dB	50HF-010-1	None	JFW	2025/2/14	2026/2/13
ETSTW-RE 055	SPECTRUM ANALYZER	FSU 26	200074	R&S	2025/3/5	2026/3/4
ETSTW-RE 099	DC Block	50DB-007-1	None	JFW	2025/2/14	2026/2/13
ETSTW-Cable 030	Microwave Cable	SUCOFLEX 104 (S_Cable 9)	279067	HUBER+SUHNER	2025/2/14	2026/2/13



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3 Equivalent Isotropic Radiated Power (EIRP)

3.1 Exemption Limits for Routine Evaluation

according to 47 CFR FCC Part 1 Subpart I, section (1.1310)

FCC OET Bulletin 65 Edition 97.01 determines the equations for predicting RF fields and applicable limits.

The prediction for power density in the far-field but will over-predict power density in the near field, where it could be used for walking a “worst case” or conservative prediction.

Systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy levels in excess limit for maximum permissible exposure. In accordance with 47 CFR FCC Part 1 Subpart I, section 1.1310 this device has been defined as a mobile device whereby a distance of 20 cm normally can be maintained between the user and the device.

MPE Calculation Method

(A) Limits for Occupational/Controlled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm ²)	Averaging Time E ² , H ² or S (minutes)
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

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm ²)	Averaging Time E ² , H ² or S (minutes)
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

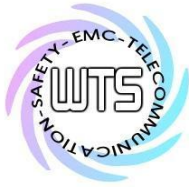
E = Electric field (V/m) P = output power (W) G = EUT Antenna numeric gain (numeric)

d = Separation distance between radiator and human body (m)

The formula can be changed to

$$Pd = \frac{30 \times P \times G}{3770 \times d^2}$$

mW/cm².



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WLAN 2.4G

Band	Channel/ Frequency (MHz)	Max output power (dBm)	Antenna Gain (dBi)	Power density (mW/cm ²)	Limit (mW/cm ²)	Ratio
802.11b	Ch 1 : 2412	19.87	1.5	0.0273	1	0.0273
802.11g	Ch 6 : 2437	20.00	1.5	0.0281	1	0.0281
802.11ax20MHz	Ch 6 : 2437	21.60	1.5	0.0406	1	0.0406
802.11ax40MHz	Ch 4 : 2437	20.43	1.5	0.031	1	0.031

WLAN 5G

Band	Channel/ Frequency (MHz)	Max output power (dBm)	Antenna Gain (dBi)	Power density (mW/cm ²)	Limit (mW/cm ²)	Ratio
NII-1	Ch 38 : 5190	21.92	1.0	0.039	1	0.039
NII-3	Ch 157 : 5785	22.48	1.0	0.0443	1	0.0443

GSMA/WCDMA/LTE

Technology	Frequency (MHz)	Max output power (dBm)	Antenna Gain (dBi)	Power density (mW/cm ²)	Limit (mW/cm ²)	Ratio
2G	Ch 251 : 848.8	32.93	2.13	0.6379	2.8293	0.2255
3G	Ch 9358:1907.6	24.46	1.38	0.0763	1	0.0763
4G	Ch 26590 : 1905	23.62	2.13	0.0748	1	0.0748

From the peak EUT RF output power, the minimum mobile separation distance, d = 20 cm, as well as the gain of the used antenna, the RF power density can be obtained.

Simultaneous evaluation-

0.0406 (WLAN 2.4G) + 0.2255 (GSMA)= 0.2661<1

0.0406 (WLAN 2.4G) + 0.0763 (WCDMA)= 0.1169<1

0.0406 (WLAN 2.4G) + 0.0748 (LTE)= 0.1154<1

0.0443 (WLAN 5G) + 0.2255 (GSMA)= 0.2698<1

0.0443 (WLAN 5G) + 0.0763 (WCDMA)= 0.1206<1

0.0443 (WLAN 5G) + 0.0748 (LTE)= 0.1191<1