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Taiwan Test Location: E-2, No.1, Li Hsin 1st Road, Hsinchu Science Park, Hsinchu City 300, Taiwan FCC Registration / 723255 / TW2022	Issued By:	
Taiwan FCC Registration / 723255 / TW2022	Lab Address:	
	Test Location:	
		723255 / TW2022

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	Relea	se Control Record	
Issue No.	Description		Date Issued
SA191127E11	Original release.		Jan. 07, 2020
D			



1	Certificate of Co	rtificate of Conformity					
	Product:	Wireless coordinator					
	Brand:	Atop					
	Test Model:	ATW310-32					
	Series Model:	ATW310-31					
	Sample Status:	ENGINEERING SAMPLE					
	Applicant:	Atop Technologies, Inc.					
	Test Date:	Dec. 12, 2019					
	Standards:	FCC Part 2 (Section 2.1091)					
		KDB 447498 D01 General RF Exposure Guidance v06					
		IEEE C95.3 -2002					

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

Prepared by :	Phone is Huang	_, Date:	Jan. 07, 2020	
	Phoenix Huang / Specialist			
Approved by :	Clark Lin / Technical Manager	_, Date:	Jan. 07, 2020	



2 RF Exposure

2.1 Limits for Maximum Permissible Exposure (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Average Time (minutes)
	Limits For Gener	al Population / Uncor	ntrolled 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

2.2 MPE Calculation Formula

 $Pd = (Pout^{*}G) / (4^{*}pi^{*}r^{2})$

where

 $Pd = power density in mW/cm^2$

Pout = 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

2.3 Classification

The antenna of this product, under normal use condition, is at least 20 cm away from the body of the user. So, this device is classified as **Mobile Device**.

2.4 Antenna Gain

	With Antenna Stander								
Brand Name	Model No.	Ant. Net Gain (including cable loss) (dBi)	Freq. Range (MHz ~ MHz)	Ant. Type	Connector Type	Cable Length	Cable Loss (dB)		
Invax	AN50(AN0908-5003BSM)	-0.83	902~928	Dipole	SMA	1.5 m (BS3703SM) + 6 cm	2.982		
		Without	Antenna S	tander					
Brand Name	Model No.	Ant. Net Gain (including cable loss) (dBi)	Freq. Range (MHz ~ MHz)	Ant. Type	Connector Type	Cable Length	Cable Loss (dB)		
Invax	AN50(AN0908-5003BSM)	2.01	902~928	Dipole	SMA	6 cm	0.132		
Note: N	Note: Max. gain was selected for the final test.								



2.5 Calculation Result of Maximum Conducted Power

Evaluation	Max Power	Antenna Gain	Distance	Power Density	Limit
Frequency (MHz)	(mW)	(dBi)	(cm)	(mW/cm ²)	(mW/cm ²)
927.35	23.878	2.01	20	0.00755	0.61823*

Note:

1. Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

2. *Limit of Power Density = f/1500.

--- END ---