

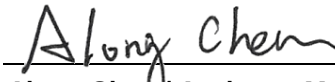
FCC RF Exposure Report

FCC ID : 2AJAC-AN520API
Equipment : Araknis Networks 520-series Wi-Fi 6 AX3000
Indoor Wireless Access Point
Model No. : AN-520-AP-I
Brand Name : Araknis Networks
Applicant : Snap One, LLC
Address : 1800 Continental Blvd Suite 200-300 Charlotte,
North Carolina 28273 USA
Standard : 47 CFR FCC Part 2.1091
Received Date : Feb. 24, 2022
Tested Date : Apr. 13 ~ Apr. 26, 2022

We, International Certification Corporation, would like to declare that the tested sample has been evaluated and in compliance with the requirement of the above standards. The test results contained in this report refer exclusively to the product. It shall not be reproduced except in full without the written approval of our laboratory.

Reviewed by:

Approved by:


Along Chen / Assistant Manager

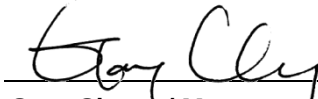

Gary Chang / Manager

Table of Contents

1	MPE EVALUATION OF MOBILE DEVICES	4
1.1	LIMITS FOR GENERAL POPULATION/UNCONTROLLED EXPOSURE.....	4
1.2	MPE EVALUATION FORMULA	4
1.3	DEVIATION FROM TEST STANDARD AND MEASUREMENT PROCEDURE	4
1.4	MEASUREMENT UNCERTAINTY	4
1.5	MPE EVALUATION RESULTS	5
1.6	MPE EVALUATION OF SIMULTANEOUS TRANSMISSION.....	6
2	TEST LABORATORY INFORMATION	7

Release Record

Report No.	Version	Description	Issued Date
FA222403	Rev. 01	Initial issue	Jun. 09, 2022

1 MPE EVALUATION OF MOBILE DEVICES

1.1 LIMITS FOR GENERAL POPULATION/UNCONTROLLED EXPOSURE

Frequency Range (MHz)	Power Density (mW /cm ²)	Averaging Time (minutes)
300~1500	F/1500	30
1500~100000	1.0	30

1.2 MPE EVALUATION FORMULA

$$Pd = \frac{Pt}{4 * Pi * R^2}$$

Where

Pd= Power density in mW/cm²

Pt= EIRP in mW

Pi= 3.1416

R= Measurement distance

1.3 DEVIATION FROM TEST STANDARD AND MEASUREMENT PROCEDURE

None

1.4 MEASUREMENT UNCERTAINTY

The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2)).

Parameters	Uncertainty
Conducted power	±0.808 dB

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

1.5 MPE EVALUATION RESULTS

Frequency Range (MHz)	Maximum Conducted Power (dBm)	Rated Power (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)	*Ratio	Pass / Fail
Non-beamforming mode								
2412~2462	26.71	27.0	6.75	23	0.357	1	0.357	Pass
5180~5240	26.55	27.0	5.1	23	0.244	1	0.244	Pass
5260~5320	23.52	24.0	5.1	23	0.122	1	0.122	Pass
5500~5720	23.89	24.0	5.8	23	0.144	1	0.144	Pass
5745~5825	26.59	27.0	5.5	23	0.268	1	0.268	Pass
Beamforming mode								
2412~2462	23.46	23.5	9.23	23	0.282	1	0.282	Pass
5180~5240	23.54	24.0	8.01	23	0.239	1	0.239	Pass
5260~5320	20.51	21.0	8.06	23	0.121	1	0.121	Pass
5500~5720	20.88	21.0	8.54	23	0.135	1	0.135	Pass
5745~5825	23.56	24.0	8.35	23	0.258	1	0.258	Pass

*Ratio = Power density / Limit.

1. For beamforming mode:

- 2.4GHz: Directional gain = $10 \times \log((10^{5.66/20} + 10^{6.75/20})^2/2) = 9.23$ dBi.
- 5.15-5.25GHz: Directional gain = $10 \times \log((10^{4.9/20} + 10^{5.1/20})^2/2) = 8.01$ dBi.
- 5.25-5.35GHz: Directional gain = $10 \times \log((10^{5.1/20} + 10^{5/20})^2/2) = 8.06$ dBi.
- 5.47-5.725GHz: Directional gain = $10 \times \log((10^{5.8/20} + 10^{5.25/20})^2/2) = 8.54$ dBi.
- 5.725-5.85GHz: Directional gain = $10 \times \log((10^{5.5/20} + 10^{5.13/20})^2/2) = 8.35$ dBi.

1.6 MPE EVALUATION OF SIMULTANEOUS TRANSMISSION

Non-beamforming mode

Mode	Max Ratio of Each Mode
2.4 GHz	0.357
5 GHz	0.268
Sum	0.625
Limit	1
Pass / Fail	Pass

Beamforming mode

Mode	Max Ratio of Each Mode
2.4 GHz	0.282
5 GHz	0.258
Sum	0.54
Limit	1
Pass / Fail	Pass

2 Test laboratory information

Established in 2012, ICC provides foremost EMC & RF Testing and advisory consultation services by our skilled engineers and technicians. Our services employ a wide variety of advanced edge test equipment and one of the widest certification extents in the business.

International Certification Corporation (EMC and Wireless Communication Laboratory), it is our definitive objective is to institute long term, trust-based associations with our clients. The expectation we set up with our clients is based on outstanding service, practical expertise and devotion to a certified value structure. Our passion is to grant our clients with best EMC / RF services by oriented knowledgeable and accommodating staff.

Our Test sites are located at Linkou District and Kwei Shan District. Location map can be found on our website <http://www.icertifi.com.tw>.

Linkou

Tel: 886-2-2601-1640

No.30-2, Ding Fwu Tsuen, Lin Kou
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(R.O.C.)

Kwei Shan

Tel: 886-3-271-8666

No.3-1, Lane 6, Wen San 3rd
St., Kwei Shan Dist., Tao Yuan
City 33381, Taiwan (R.O.C.)
No.2-1, Lane 6, Wen San 3rd
St., Kwei Shan Dist., Tao Yuan
City 33381, Taiwan (R.O.C.)

Kwei Shan Site II

Tel: 886-3-271-8640

No.14-1, Lane 19, Wen San 3rd
St., Kwei Shan Dist., Tao Yuan
City 333, Taiwan (R.O.C.)

If you have any suggestion, please feel free to contact us as below information.

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Email: ICC_Service@icertifi.com.tw

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