

RF TEST REPORT

Report Reference No...... : **MAX26030146P01-R01RF**

FCC ID..... : **2BVWF-P1GA1P**

Compiled by
(position+printed name+signature)... : Engineer/ Cindy Zheng

Supervised by
(position+printed name+signature)... : Manager/Haley Wen

Approved by
(position+printed name+signature)... : RF Manager/ Vivian Jiang

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Cindy Zheng
Haley Wen
Vivian Jiang

Testing Laboratory Name..... : **MAXLAB Testing Co.,Ltd.**

Address..... : 1/F, Building B, Xinshidai GR Park, Shiyan Street, Bao'an District,
Shenzhen, Guangdong, 518052, People's Republic of China

Applicant's name..... : **Shenzhen Paisika Technology Co., Ltd.**

Address..... : Room 2308, South China Development Center, Pinghu, Longgang,
Shenzhen, China

Test specification..... :

Standard..... : KDB 447498 D01 General RF Exposure Guidance v06

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Equipment description..... : Cat Air Purifier

Trade Mark..... : Amiapaw

Manufacturer..... : Shenzhen Paisika Technology Co., Ltd.

Model/Type reference..... : P1G-A1P

Listed Models : P1G-A2P, P1G-A3P, P1G-A4P, P1G-A5P, P1G-A6P, P1G-A7P,
P1G-A8P, P1G-A9P,
Pre Filter: P1G-A1P-01, P1G-A2P-01, P1G-A3P-01, P1G-A4P-01,
P1G-A5P-01, P1G-A6P-01, P1G-A7P-01, P1G-A8P-01,
P1G-A9P-01;
Carbon Filter: P1G-A1P-02, P1G-A2P-02, P1G-A3P-02,
P1G-A4P-02, P1G-A5P-02, P1G-A6P-02, P1G-A7P-02,
P1G-A8P-02, P1G-A9P-02;

Modulation : CCK/DSSS/ OFDM

Frequency..... : From 2412MHz to 2462MHz

Ratings..... : 100-240V~ 50/60Hz, 1.2A

Result..... : **PASS**

RF Exposure Evaluation

Limits

The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in 1.1307(b)

According to KDB 447498 D01 General RF Exposure Guidance v06, Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Test Exclusion Threshold condition(s), listed below, is (are) satisfied.

Limits for Maximum Permissible Exposure (MPE)

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

Friis transmission formula: $Pd = (Pout \cdot G) / (4 \cdot \pi \cdot r^2)$

Where

Pd = power density in mW/cm², **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

Pd 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.

Test Procedure

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

Test Result of RF Exposure Evaluation

WiFi 2.4G

Channel	Frequency (MHz)	Output power to antenna (dBm)	Output power to antenna (mW)	Antenna Gain (dBi)	Power Density at R=20cm (mW/cm ²)	Limit (mW/cm ²)	Result
802.11b	2412	9.03	8.00	2.54	0.00286	1.0	PASS
	2437	9.67	9.27	2.54	0.00331	1.0	PASS
	2462	9.81	9.57	2.54	0.00342	1.0	PASS
802.11g	2412	8.61	7.26	2.54	0.00259	1.0	PASS
	2437	8.28	6.73	2.54	0.00240	1.0	PASS
	2462	9.88	9.73	2.54	0.00347	1.0	PASS
802.11n (HT20)	2412	8.79	7.57	2.54	0.00270	1.0	PASS
	2437	8.97	7.89	2.54	0.00282	1.0	PASS
	2462	8.71	7.43	2.54	0.00265	1.0	PASS

EUT's module is more than 20cm away from the human body.

Conclusion: The measurement results comply with the FCC Limit per 47 CFR 2.1091 for the uncontrolled RF Exposure of mobile device.