



BMAXLAB Testing Co.,Ltd.

RF EXPOSURE Test Report

FCC ID:	2A35W-H96MAXH313TS
Applicant	Shenzhen Haochuangyi Technology Co.,Ltd
Address	1101, Building 6, Changyi Industrial Plant, No.1 Lirong Road, Xinshi Community, Dalang Street, Longhua District, Shenzhen
Manufacturer	Shenzhen Haochuangyi Technology Co.,Ltd
Address	1101, Building 6, Changyi Industrial Plant, No.1 Lirong Road, Xinshi Community, Dalang Street, Longhua District, Shenzhen
Product Name:	H96 Max H313TS
Model/Type reference:	H96 Max H313TS
Power supply:	DC 5V From adaptor
Adapter information	Model: EP-TA20CBC Input: AC 100-240V 50/60Hz Output: DC 5V 2A Firmware Version: EPTA5.14.2 Manufacture: Huizhou Dongyang Yienbi Electronics Co., Ltd
Hardware version:	/
Software version:	/
Standards:	FCC CFR Title 47 Part 15 Subpart C Section 15.407 ANSI C63.10:2020 KDB 789033 D02 v02r01 KDB558074 D01 V05r02: April 2, 2019 FCC Part 15.247 KDB558074 D01 15.247 Meas Guidance v05r02
Test procedure :	KDB 447498 D01 v06
Date of Test	
Date of tests	January 10, 2025 ~ January 22, 2025
Test Result.	Pass
This device described above has been tested by BSL Testing Co., Ltd. and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.	

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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

BT

Operation Frequency: 2402-2480MHz,

Power density limited: 1mW/ cm²

2.4GWiFi:

Operation Frequency: WIFI 802.11b/g/n HT20: 2412-2462MHz,

Power density limited: 1mW/ cm²

5GWiFi:

802.11a: 20 MHz

802.11n: 20 MHz, 40 MHz

802.11ac: 20 MHz, 40 MHz, 80MHz .

Antenna Type: FPC Antenna

Antenna gain: 1.77dBi(BT+WIFI2.4G)/ 4.03dBi(WIFI5G)

R=20cm

mW= 10^{^(dBi/10)}

Antenna gain Numeric= 10^{^(dBi/10)}= 10^{^(1.77/10)}=1.50

Antenna gain Numeric= 10^{^(dBi/10)}= 10^{^(4.03/10)}=2.53

BR+EDR

Channel	Frequency (MHz)	Output power to antenna (dBm)	Output power to antenna (mW)	Power Density at R=20cm (mW/cm ²)	Limit (mW/cm ²)	Result
GFSK	2402	0.62	1.15	0.00035	1.0	PASS
	2441	2.58	1.81	0.00054	1.0	PASS
	2480	3.07	2.03	0.00061	1.0	PASS
Π/4DQPSK	2402	3.29	2.13	0.00064	1.0	PASS
	2441	5.28	3.37	0.00101	1.0	PASS
	2480	5.48	3.53	0.00106	1.0	PASS
8DPSK	2402	3.76	2.38	0.00071	1.0	PASS
	2441	5.72	3.73	0.00112	1.0	PASS
	2480	5.94	3.93	0.00117	1.0	PASS

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WiFi 2.4G

Channel	Frequency (MHz)	Output power to antenna (dBm)	Output power to antenna (mW)	Power Density at R=20cm (mW/cm ²)	Limit (mW/cm ²)	Result
802.11b	2412	14.40	27.54	0.00824	1.0	PASS
	2437	15.77	37.76	0.01130	1.0	PASS
	2462	15.56	35.97	0.01076	1.0	PASS
802.11g	2412	16.57	45.39	0.01358	1.0	PASS
	2437	18.06	63.97	0.01914	1.0	PASS
	2462	18.51	70.96	0.02123	1.0	PASS
802.11n (HT20)	2412	16.76	47.42	0.01419	1.0	PASS
	2437	18.19	65.92	0.01972	1.0	PASS
	2462	18.29	67.45	0.02018	1.0	PASS
802.11n (HT40)	2422	17.24	52.97	0.01585	1.0	PASS
	2437	17.97	62.66	0.01875	1.0	PASS
	2452	17.91	61.80	0.01849	1.0	PASS

WiFi 5G

UNII-3

Channel	Frequency (MHz)	Output power to antenna (dBm)	Output power to antenna (mW)	Power Density at R=20cm (mW/cm ²)	Limit (mW/cm ²)	Result
802.11a	5745	8.125	6.49	0.00327	1.0	PASS
	5785	7.865	6.12	0.00308	1.0	PASS
	5825	7.652	5.82	0.00293	1.0	PASS
802.11n (HT20)	5745	7.856	6.10	0.00307	1.0	PASS
	5785	7.963	6.26	0.00315	1.0	PASS
	5825	7.452	5.56	0.00280	1.0	PASS
802.11n (HT40)	5755	5.685	3.70	0.00186	1.0	PASS
	5795	5.652	3.67	0.00185	1.0	PASS
802.11ac (HT20)	5745	7.635	5.80	0.00292	1.0	PASS
	5785	7.865	6.12	0.00308	1.0	PASS
	5825	7.214	5.27	0.00265	1.0	PASS
802.11ac (HT40)	5755	4.965	3.14	0.00158	1.0	PASS
	5795	4.865	3.07	0.00154	1.0	PASS
802.11ac (HT80)	5775	3.242	2.11	0.00106	1.0	PASS

Conclusion: No SAR is required.

----END OF REPORT----