

RF TEST REPORT

Report Reference No......: **MAX25050154P03-R01RF**

FCC ID.....: **2A35W-H96MAXM2PLUS**

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

Address.....: 1101, Building 6, Changyi Industrial Plant, No.1 Lirong Road, Xinshi Community, Dalang Street, Longhua District, Shenzhen, China

Test specification.....:

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

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Test item description.....: H96 Max M2Plus

Trade Mark.....: H96 Max

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

Model/Type reference.....: H96 Max M2Plus

Listed Models: N/A

Modulation: GFSK, $\pi/4$ DQPSK, 8-DPSK
CCK/ DSSS/ OFDM

Frequency.....: From 2402MHz to 2480MHz
From 2412 - 2462MHz

Input: DC 5V, 2A

For AC/DC ADAPTER

Rating.....: Input:100-240V~, 50/60Hz, 0.3A
Output:DC 5V, 2A, 10.0W

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+BR/EDR

Channel	Frequen cy (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	9.865	9.69	0.00193	1.0	PASS
	2437	9.562	9.04	0.00180	1.0	PASS
	2462	9.451	8.81	0.00175	1.0	PASS
802.11g	2412	8.562	7.18	0.00143	1.0	PASS
	2437	8.354	6.85	0.00136	1.0	PASS
	2462	8.214	6.63	0.00132	1.0	PASS
802.11n (HT20)	2412	7.654	5.83	0.00116	1.0	PASS
	2437	7.632	5.80	0.00115	1.0	PASS
	2462	7.562	5.70	0.00114	1.0	PASS
802.11n (HT40)	2422	5.635	3.66	0.00073	1.0	PASS
	2437	5.541	3.58	0.00071	1.0	PASS
	2452	5.324	3.41	0.00068	1.0	PASS
802.11ax20	2412	6.541	4.51	0.00090	1.0	PASS
	2437	6.425	4.39	0.00087	1.0	PASS
	2462	6.235	4.20	0.00084	1.0	PASS
802.11ax40	2422	4.654	2.92	0.00058	1.0	PASS
	2437	4.451	2.79	0.00055	1.0	PASS
	2452	4.326	2.71	0.00054	1.0	PASS
GFSK	2402	6.689	4.67	0.00093	1.0	PASS
	2441	6.173	4.14	0.00082	1.0	PASS
	2480	5.878	3.87	0.00077	1.0	PASS
π/4DQPSK	2402	7.131	5.17	0.00103	1.0	PASS
	2441	6.457	4.42	0.00088	1.0	PASS
	2480	6.259	4.23	0.00084	1.0	PASS
8-DPSK	2402	7.085	5.11	0.00102	1.0	PASS
	2441	6.635	4.61	0.00092	1.0	PASS
	2480	6.351	4.32	0.00086	1.0	PASS

Remark: antenna gain 0 dBi

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

Conclusion: No SAR is required.