

RF TEST REPORT

Report Reference No...... : MAX26031911P01-R01RF

FCC ID..... : 2AKLL-CJ270

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Applicant's name..... : Zhejiang Flashforge 3D Technology Co., Ltd.

Address..... : No. 518, Xianyuan Road,Jinhua City, Zhejiang 321000, China

Manufacturer's name..... : Zhejiang Flashforge 3D Technology Co., Ltd.

Manufacturer Address..... : No. 518, Xianyuan Road,Jinhua City, Zhejiang 321000, China

Test specification..... :

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

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Equipment description..... : 3D Printer

Trade Mark..... : Flashforge

Model/Type reference..... : CJ270

Listed Models : N/A

Modulation : ASK

Frequency..... : 13.56MHz

Rating..... : AC 100-240V~50/60Hz,250W

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.



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Test Result of RF Exposure Evaluation

For NFC

Test Procedure

TX frequency range:13.56MHz, Limit:824/13.56=60.77V/m

Device category: Mobile device(Distance:20cm)

Max. Field Strength:74.83dBuV/m @3m

@20cm=@3m+40*log(3/0.2)=121.87dBuV/m

For 13.56MHz:121.87dBuV/m= $10^{(121.87-120)/20}=1.24\text{V/m}$ < 60.77V/m

Conclusion: No SAR is required.