



Test Report No.: SA180830W001



RF EXPOSURE REPORT

Product: Remote Controller

Model Name: D23

FCC ID: 2AQ95-NIUD23

Applicant: Beijing Niu Technology Co., Ltd

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
SA180830W001	Original release	Jan. 07, 2019



2 GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

PRODUCT	Remote Controller
MODEL NAME	D23
NOMINAL VOLTAGE	3Vdc (button battery)
OPERATING TEMPERATURE RANGE	-20 ~ 70°C
MODULATION TYPE	ASK
OPERATING FREQUENCY	ASK
ANTENNA GAIN	PCB Antenna with 1.5dBi gain
HW VERSION	HRXN-D23-2150L-FCC-C20180926
SW VERSION	HR-2150L-V1.0-C1CF
I/O PORTS	Refer to user's manual
CABLE SUPPLIED	N/A

NOTE:

1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
2. For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.



3 RF EXPOSURE

Per KDB 447498 D01, for 100 MHz to 6 GHz and test separation distances ≤ 50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:

$$\left[\frac{\text{max. power of channel, including tune-up tolerance, mW}}{\text{min. test separation distance, mm}} \right] \cdot \sqrt{f(\text{GHz})} \leq 3.0 \text{ for 1-g SAR, and } \leq 7.5 \text{ for 10-g extremity SAR,}$$

f(GHz) is the RF channel transmit frequency in GHz;

Power and distance are rounded to the nearest mW and mm before calculation;

The result is rounded to one decimal place for comparison;

When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion

3.1 CALCULATION RESULT

Frequency (MHz)	Max. Tune-up Power (dBm)	Test Position	Separation Distance (mm)	Max. Tune-up (mW)	\sqrt{f} (GHz)	Calculation Result	limit:3.0(1g)
315	-1.0	Body	5	0.79	0.561	0.1	No

3.2 CONCLUSION

According to the KDB447498 D01, the RF exposure analysis concludes that the SAR test is no required, and compliant the FCC Rule.

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