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RF Exposure Evaluation Report

Report No. : CQASZ20190400236E-02
Applicant: Anhui Niushan New Material Technology Co., Ltd.
Address of Applicant: Jinqiao Technology Incubator , Jinqiao Development Zone, Tongling, China
Manufacturer: Anhui Niushan New Material Technology Co., Ltd.
Address of Manufacturer: Jinqiao Technology Incubator , Jinqiao Development Zone, Tongling, China
Equipment Under Test (EUT):
Product: Children WiFi Camera
Model No.: PI-01, pl-01, pl-02, pl-03, pl-04, pl-05
Test Model No.: PI-01
Brand Name: baobaopai
FCC ID: 2AS52N7N8F
Standards: 47 CFR Part 1.1307
47 CFR Part 2.1093
KDB447498D01 General RF Exposure Guidance v06
Date of Test: 2019-04-11 to 2019-04-23
Date of Issue: 2019-04-23
Test Result : PASS*

Tested By:

Daisy Qin

(Daisy Qin)

Reviewed By:

Aaron Ma

(Aaron Ma)

Approved By:

Jack Ai

(Jack Ai)



* In the configuration tested, the EUT complied with the standards specified above.

The test report is effective only with both signature and specialized stamp, The result(s) shown in this report refer only to the sample(s) tested. Without written approval of CQA, this report can't be reproduced except in full.

1 Version

Revision History Of Report

Report No.	Version	Description	Issue Date
CQASZ20190400236E-02	Rev.01	Initial report	2019-04-23

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3 General Information

3.1 Client Information

Applicant:	Anhui Niushan New Material Technology Co., Ltd.
Address of Applicant:	Jinqiao Technology Incubator , Jinqiao Development Zone, Tongling, China
Manufacturer:	Anhui Niushan New Material Technology Co., Ltd.
Address of Manufacturer:	Jinqiao Technology Incubator , Jinqiao Development Zone, Tongling, China

3.2 General Description of EUT

Product Name:	Children WiFi Camera
All Model No.:	PI-01, pl-01, pl-02, pl-03, pl-04, pl-05
Test Model No.:	PI-01
Trade Mark:	baobaopai
Hardware Version:	pl-01
Software Version:	MiNi1S-1.30-202
Sample Type:	☒ Mobile ☐ Portable ☐ Fix Location
Power Supply:	DC3.7V, 800mAh; Charge by USB

3.3 General Description of WIFI

Operation Frequency:	IEEE 802.11b/g/n(HT20): 2412MHz to 2462MHz IEEE 802.11n(HT40): 2422MHz to 2452MHz
Channel Numbers:	IEEE 802.11b/g, IEEE 802.11n HT20: 11 Channels IEEE 802.11n HT40: 7 Channels
Channel Separation:	5MHz
Type of Modulation:	IEEE for 802.11b: DSSS(CCK,DQPSK,DBPSK) IEEE for 802.11g : OFDM(64QAM, 16QAM, QPSK, BPSK) IEEE for 802.11n(HT20/40): OFDM (64QAM, 16QAM,QPSK,BPSK)
Transfer Rate:	IEEE for 802.11b: 1Mbps/2Mbps/5.5Mbps/11Mbps IEEE for 802.11g : 6Mbps/9Mbps/12Mbps/18Mbps/24Mbps/36Mbps/48Mbps/54Mbps IEEE for 802.11n(HT20) : 6.5Mbps/13Mbps/19.5Mbps/26Mbps/39Mbps/52Mbps/58.5Mbps/65Mbps IEEE for 802.11n(HT40) : 13.5Mbps/27Mbps/40.5Mbps/54Mbps/81Mbps/108Mbps/121.5Mbps/135Mbps
Test Software of EUT:	SecureCRT(manufacturer declare)
Antenna Type:	Ceramic antenna
Antenna Gain:	0dBi

All model: PI-01, pl-01, pl-02, pl-03, pl-04, pl-05

Only the model PI-01 was tested, since the electrical circuit design, layout, components used and internal wiring were identical for the above models, with difference being color of appearance and model name.

4 SAR Evaluation

4.1 RF Exposure Compliance Requirement

4.1.1 Standard Requirement

According to KDB447498D01 General RF Exposure Guidance v06

4.3.1. Standalone SAR test exclusion considerations

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 Exclusion Threshold condition, listed below, is satisfied.

4.1.2 Limits

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

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

☐ $f(\text{GHz})$ is the RF channel transmit frequency in GHz

☐ Power and distance are rounded to the nearest mW and mm before calculation¹⁷

☐ The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion

4.1.3 EUT RF Exposure

1)For WIFI:

Measurement Data

802.11b mode				
Test channel	Average Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(2412MHz)	5.88	6.0±1	7	5.012
Middle(2437MHz)	6.08	6.0±1	7	5.012
Highest(2462MHz)	6.39	6.0±1	7	5.012
802.11g mode				
Test channel	Average Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(2412MHz)	4.92	5.0±1	6	3.981
Middle(2437MHz)	4.97	5.0±1	6	3.981
Highest(2462MHz)	5.37	5.0±1	6	3.981
802.11n(HT20)mode				
Test channel	Average Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(2412MHz)	4.72	5.0±1	6	3.981
Middle(2437MHz)	4.97	5.0±1	6	3.981
Highest(2462MHz)	5.03	5.0±1	6	3.981
802.11n(HT40)mode				
Test channel	Average Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(2422MHz)	4.11	5.0±1	6	3.981
Middle(2437MHz)	4.63	5.0±1	6	3.981
Highest(2452MHz)	4.85	5.0±1	6	3.981

Worst case: 802.11b mode						
Channel	Average Conducted Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune- up Power		Calculated value	Exclusion threshold
			(dBm)	(mW)		
Lowest (2402MHz)	5.88	6.0±1	7	5.012	1.24	3.0
Middle (2440MHz)	6.08	6.0±1	7	5.012	1.24	
Highest (2480MHz)	6.39	6.0±1	7	5.012	1.25	
Conclusion: the calculated value ≤3.0, SAR is exempted.						

Remark: The Max Conducted Peak Output Power data refer to report Report No.: CQASZ20190400236E-01