

RF EXPOSURE EVALUATION REPORT

Application No.: GZCR2309000966AT
Applicant: DOREL JUVENILE GROUP
Address of Applicant: 2525 State Street Columbus Indiana United States
Manufacturer: DOREL JUVENILE GROUP
Address of Manufacturer: 2525 State Street Columbus Indiana United States
Factory: Hangzhou Meari Technology Co., Ltd
Address of Factory: Room 604-605, Building 1, No.768 Jianghong Road, Changhe street, Binjiang District, Hangzhou City, Zhejiang, China

Equipment Under Test (EUT):
EUT Name: See Pro 360° Baby Monitor (Camera unit)
Model No.: MO183
Trade Mark: MAXI·COSI
Standard(s) : 47 CFR Part 1.1310
KDB447498D01 General RF Exposure Guidance v06

Date of Receipt: 2023-09-18
Date of Evaluation: 2023-10-13 to 2023-10-13
Date of Issue: 2023-11-07

Evaluation Result:

Pass*

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

Ricky Liu

Ricky Liu
Manager



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Revision Record			
Version	Report No.	Date	Remark
01	GZCR230900096607	2023-11-07	Original

Authorized for issue by:			
		Kevin Zhang	
		Kevin Zhang/Project Engineer	
		Vico Cui	
		Vico Cui/Reviewer	



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2 Evaluation Summary

Item	Standard	Method	Requirement	Result
RF Exposure	KDB447498D01 General RF Exposure Guidance v06	KDB447498D01 General RF Exposure Guidance v06	47 CFR Part 1.1310	Pass

Note:

E.U.T./EUT means Equipment Under Test.

Pass means the test result passed the test standard requirement, please find the detailed decision rule in the report relative section.



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4 General Information

4.1 Details of E.U.T.

Power supply:	DC 5 V for camera powered by AC/DC adapter as below: Model: TPA-97050100VW01 Input: AC 100-240 V, 50/60 Hz, 0.15A Output: DC 5 V, 1 A
Cable(s):	Type C input ports with 2m unshielded cables SD card ports
Antenna Number:	2 (one for 902 MHz to 925 MHz RF and the other for 2.4/5 GHz Wi-Fi)
For 2.4 GHz Wi-Fi	
Operation Frequency:	802.11b/g/n(HT20): 2412MHz to 2462MHz
Modulation Type:	802.11b: DSSS (CCK, DQPSK, DBPSK);802.11g/n: OFDM (64QAM, 16QAM, QPSK, BPSK)
Number of Channels:	802.11b/g/n(HT20):11
Channel Spacing:	5MHz
Antenna Type:	Integral Antenna
Antenna Gain:	2.25 dBi
For 902 MHz to 925 MHz RF	
Operation Frequency:	905 MHz to 925 MHz
Modulation Type:	802.11ah: OFDM (64QAM, 16QAM, QPSK, BPSK)
Number of Channels:	11
Channel Spacing:	5 MHz
Antenna Type:	Integral Antenna
Antenna Gain:	-0.76 dBi
For 5 GHz Wi-Fi	
Operation Frequency/Number of channels (20MHz):	U-NII-1: 5180-5240MHz (4 Channels); U-NII-2A: 5260-5320MHz (4 Channels); U- NII-2C: 5500-5700MHz (11 Channels); U-NII-3: 5745-5825MHz (5 Channels)
Modulation Type:	802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK); 802.11n: OFDM (BPSK, QPSK, 16QAM, 64QAM)
Channel Spacing:	802.11a/n 20: 20MHz
DFS Function:	Slave without Radar detection
TPC Function:	Without TPC function
Antenna Type:	Integral Antenna
Antenna Gain:	2.75 dBi



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4.2 Evaluating Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou Branch EMC Laboratory,
198 Kezhu Road, Sciencetech Park, Guangzhou Economic & Technology Development District,
Guangzhou, China 510663

Tel: +86 20 82155555

Fax: +86 20 82075059

No tests were sub-contracted.

4.3 Facility

The facility is recognized, certified, or accredited by the following organizations:

● ACMA

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory can also perform testing for the Australian/New Zealand Regulatory Compliance Mark (RCM).

● SGS UK(Certificate No.: 32), SGS-TUV SAARLAND and SGS-FIMKO

Have approved SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory as a supplier of EMC TESTING SERVICES and SAFETY TESTING SERVICES.

● FCC Recognized Accredited Test Firm(Registration No.: 486818)

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been accredited and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Designation Number: CN5016, Test Firm Registration Number: 486818.

● ISED (Registration No.: 4620B, CAB identifier: CN0052)

SGS-CSTC Standards Technical Services Co., Ltd., has been registered by Innovation Science and Economic Development Canada for Wireless Device Testing laboratories to test to Canadian radio equipment requirements. Registration No. 4620B, CAB identifier: CN0052.

● VCCI (Registration No.: R-12460, C-12584, G-20107 and T-11179)

The 10m Semi-anechoic chamber, 966 Anechoic Chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-12460, C-12584, G-20107 and T-11179 respectively.

● CBTL (Lab Code: TL129)

SGS-CSTC Standards Technical Services Co., Ltd., E&E Laboratory has been assessed and fully comply with the requirements of ISO/IEC 17025:2017, the Basic Rules, IECEE 01 and Rules of procedure IECEE 02, and the relevant IECEE CB-Scheme Operational documents.

4.4 Deviation from Standards

None

4.5 Abnormalities from Standard Conditions

None



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5 Technical Requirements Specification

5.1 General Description of Applied Standards

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.

5.2 RF Exposure Evaluation

5.2.1 Limit & Test Method

According to FCC Part1.1310: 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 part1.1307(b)

TABLE 1—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 Formula

Friis transmission formula: $P_d = (P_{out} * G) / (4 * P_i * R^2)$

Where

P_d = power density in mW/cm²

P_{out} = output power to antenna in mW

G = gain of antenna in linear scale

P_i = 3.1416

R = distance between observation point and center of the radiator in cm

P_d 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.



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5.2.2 Conclusion

Normal use condition for

Distance between $\geq 20\text{cm}$ declared by applicant

antenna and body:

For Camera

For 900 MHz						
Antenna Gain:		-0.76 dBi				
Frequency (MHz)	Antenna Gain (Numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
905	0.839459987	28.29	674.53	0.11265	1	Complies
915	0.839459987	28.18	657.66	0.10983	1	Complies
925	0.839459987	28.33	680.77	0.11369	1	Complies
For 2.4 GHz Wi-Fi						
Antenna Gain:		2.25 dBi				
Frequency (MHz)	Antenna Gain (Numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
11B						
2412	1.678804018	16.89	48.87	0.01632	1	Complies
2437	1.678804018	16.96	49.66	0.01659	1	Complies
2462	1.678804018	15.92	39.08	0.01305	1	Complies
11G						
2412	1.678804018	16.92	49.20	0.01643	1	Complies
2437	1.678804018	15.78	37.84	0.01264	1	Complies
2462	1.678804018	15.11	32.43	0.01083	1	Complies
11N20						
2412	1.678804018	16.33	42.95	0.01435	1	Complies
2437	1.678804018	15.39	34.59	0.01155	1	Complies
2462	1.678804018	14.63	29.04	0.00970	1	Complies



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For 5 GHz Wi-Fi						
Antenna Gain:		2.75 dBi				
Frequency (MHz)	Antenna Gain (Numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
11A						
5180	1.883649089	13.89	24.49	0.00918	1	Complies
5200	1.678804018	13.43	22.03	0.00736	1	Complies
5240	1.678804018	13.16	20.70	0.00691	1	Complies
5260	1.678804018	14.13	25.88	0.00864	1	Complies
5300	1.678804018	13.68	23.33	0.00779	1	Complies
5320	1.678804018	13.61	22.96	0.00767	1	Complies
5500	1.678804018	14.53	28.38	0.00948	1	Complies
5580	1.678804018	15.52	35.65	0.01190	1	Complies
5700	1.678804018	15.86	38.55	0.01287	1	Complies
5745	1.678804018	14.85	30.55	0.01020	1	Complies
5785	1.678804018	14.5	28.18	0.00941	1	Complies
5825	1.678804018	14.4	27.54	0.00920	1	Complies
11N20						
5180	1.883649089	12.89	19.45	0.00729	1	Complies
5200	1.678804018	12.67	18.49	0.00618	1	Complies
5240	1.678804018	12.37	17.26	0.00576	1	Complies
5260	1.678804018	13.18	20.80	0.00695	1	Complies
5300	1.678804018	12.91	19.54	0.00653	1	Complies
5320	1.678804018	13.34	21.58	0.00721	1	Complies
5500	1.678804018	14.13	25.88	0.00864	1	Complies
5580	1.678804018	14.91	30.97	0.01034	1	Complies
5700	1.678804018	14.84	30.48	0.01018	1	Complies
5745	1.678804018	14.13	25.88	0.00864	1	Complies
5785	1.678804018	13.37	21.73	0.00726	1	Complies
5825	1.678804018	13.8	23.99	0.00801	1	Complies
The 905 to 915 RF function and Wi-Fi can be transmitted together, the result is						
0.11369	/1+	0.01287	/1+	0.01659	/1=	0.14315 <1

Note: Refer to report No. GZCR230900096603 & GZCR230900096604 for EUT test Max Conducted Peak Output Power value.



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6 EUT Constructional Details (EUT Photos)

Refer to External and Internal Photos for GZCR2309000966AT

- End of the Report -



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