

RF Exposure Evaluation Report

Product : DREO BABY MONITOR
Trade mark : DREO
Model/Type reference : DR-BBM001, WDR-BM001
Serial Number : N/A
Report Number : EED32N81477104
FCC ID : 2A3SY-BBM001B
Date of Issue : Mar. 04, 2022
Test Standards : 47 CFR Part 1.1307
47 CFR Part 2.1093
KDB447498D01 General RF
Exposure Guidance v06
Test result : PASS

Prepared for:

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2 Version

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4 General Information


4.1 Client Information

Applicant:	Hesung Innovation Limited
Address of Applicant:	Room 803, Chevalier House, 45-51 Chatham Road South, Tsim Sha Tsui, Kowloon
Manufacturer:	Shenzhen Hesung Innovation Technology Co., LTD
Address of Manufacturer:	26th Floor, Building A7, Chuangzhiyuncheng, Liuxian Avenue, Nanshan District, Shenzhen
Factory:	Power7 Technology (Dong Guan) Co., Ltd.
Address of Factory:	No.28 Binjiang Street. Shishuikou Village, Qiaotou Town, Dongguan City, GuangDong Province P.R.China

4.2 General Description of EUT

Product Name:	DREO BABY MONITOR
Model No.(EUT):	DR-BBM001, WDR-BM001
Test Model No:	DR-BBM001
Trade Mark:	DREO

4.3 Product Specification subjective to this standard

Frequency Range:	2410MHz - 2477MHz	
Modulation Type:	GFSK	
Test Power Grade:	Default	
Test Software of EUT:	N/A(manufacturer declare)	
Antenna Type:	Dipole Antenna	
Antenna Gain:	2dBi	
Power Supply:	Adapter:(Monitor)	Model: TPA285-10050-US Input: 100-240V~50/60Hz 0.6A Max Output: 5V  2.0A
Max Conducted Peak Output Power:	-0.78 dBm	The Max Conducted Peak Output Power data refer to the report EED32N81477103
Sample Received Date:	Dec. 31, 2021	
Sample tested Date:	Dec. 31, 2021 to Feb. 27, 2022	
Company Name and Address shown on Report, the sample(s) and sample information was/ were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified. Model No.: DR-BBM001, WDR-BM001 Only the model DR-BBM001 was tested, The difference between each model is only for the product name is different, the color is different, the rest circuit principle, the internal structure, the PCB Layout and the safety key parts are the same, does not affect the EMC and safety test.		

4.4 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd

Building C, Hongwei Industrial Park Block 70, Bao'an District, Shenzhen, China

Telephone: +86 (0) 755 33683668 Fax:+86 (0) 755 33683385

No tests were sub-contracted.

FCC Designation No.: CN1164

4.5 Deviation from Standards

None.

4.6 Abnormalities from Standard Conditions

None.

4.7 Other Information Requested by the Customer

None.

5 SAR Evaluation

5.1 RF Exposure Compliance Requirement

5.1.1 Standard Requirement

According to KDB447498D01 General RF Exposure Guidance v06
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.

5.1.2 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:

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

5.1.3 EUT RF Exposure

1) For 2.4G

Measurement Data:

GFSK mode				
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(2410MHz)	-0.78	-1±1	0	1
Middle(2441.5MHz)	-1.5	-1±1	0	1
Highest(2477MHz)	-1.98	-1±1	0	1

Worst case is GFSK						
Channel	Maximum Peak Conducted Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune- up Power		Calculated value	Exclusion threshold
			(dBm)	(mW)		
Lowest (2410MHz)	-0.78	-1±1	0	1	0.315	3.0
Middle (2441.5MHz)	-1.5	-1±1	0	1	0.315	
Highest (2477MHz)	-1.98	-1±1	0	1	0.315	
Conclusion: the calculated value ≤3.0, SAR is exempted.						

Remark: The Max Conducted Peak Output Power data refer to report Report No.: EED32N81477103.

PHOTOGRAPHS OF EUT Constructional Details

Refer to Report No. EED32N1477103 for EUT external and internal photos.

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 CTI, this report can't be reproduced except in full.

*** End of Report ***