

RF Exposure Evaluation Report

Report Reference No......: **MTEB23020012-H**

FCC ID.....: **2A5QB-D80**

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Date of issue.....: **February 15,2023**

Representative Laboratory Name .: **Shenzhen Most Technology Service Co., Ltd.**

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Applicant's name.....: **Shenzhen JiaFengHeSheng Technology Co., Ltd.**

Address: 2nd FI C5 Buliding,HengFeng Industry City,ZhouShi Rd,Bao'an
Dist.,Shenzhen 518000 China

Test specification/ Standard: **47 CFR Part 1.1307;47 CFR Part 1.1310**
KDB447498D01 General RF Exposure Guidance v06

TRF Originator.....: Shenzhen Most Technology Service Co., Ltd.

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Test item description: DASH CAM

Trade Mark: PRUVEEO

Manufacturer: Shenzhen JiaFengHeSheng Technology Co., Ltd.

Model/Type reference.....: D80

Listed Models: N/A

Modulation Type: CCK/DSSS/ OFDM

Operation Frequency.....: From 2412 - 2462MHz

Rating: DC 12V by Car Charger

Hardware version: 1.0

Software version: 1.1

Result.....: **PASS**

TEST REPORT

Equipment under Test : DASH CAM

Model /Type : D80

Listed Models : N/A

Remark : N/A

Applicant : Shenzhen JiaFengHeSheng Technology Co., Ltd.

Address : 2nd Fl C5 Buliding,HengFeng Industry City,ZhouShi Rd,Bao'an Dist.,Shenzhen 518000 China

Manufacturer : Shenzhen JiaFengHeSheng Technology Co., Ltd.

Address : 2nd Fl C5 Buliding,HengFeng Industry City,ZhouShi Rd,Bao'an Dist.,Shenzhen 518000 China

Test Result:	PASS
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The test report merely corresponds to the test sample.
It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

1. Revision History

Revision	Issue Date	Revisions	Revised By
00	2022-02-15	Initial Issue	Alisa Luo

2. SAR Evaluation

2.1 RF Exposure Compliance Requirement

2.1.1 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.

2.1.2 Limits

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: $P_d = (P_{out} \cdot G) / (4 \cdot \pi \cdot R^2)$ Where

P_d = power density in mW/cm²

P_{out} = output power to antenna in mW

G = gain of antenna in linear scale

π = 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.

2.1.3 EUT RF Exposure

Antenna Gain:0.66dBi

Antenna Gain: The maximum Gain measured in fully anechoic chamber is 2.4 in linear scale. Output Power Into Antenna & RF Exposure Evaluation Distance:

WIFI 2.4G

802.11b			
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power
			(dBm)
Lowest(2412 MHz)	15.33	15.33 ± 1	16.33
Middle(2437MHz)	16.36	16.36 ± 1	17.36
Highest(2462MHz)	15.59	15.59 ± 1	16.59

802.11g			
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power
			(dBm)
Lowest(2412 MHz)	16.23	16.23 ± 1	17.23
Middle(2437MHz)	15.40	15.40 ± 1	16.40
Highest(2462MHz)	16.30	16.30 ± 1	17.30

802.11n(HT20)			
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power
			(dBm)
Lowest(2412 MHz)	16.22	16.22 ± 1	17.22
Middle(2437MHz)	15.46	15.46 ± 1	16.46
Highest(2462MHz)	17.30	17.30 ± 1	18.30

802.11n(HT40)			
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power
			(dBm)
Lowest(2412 MHz)	16.54	16.54 ± 1	17.54
Middle(2437MHz)	15.46	15.46 ± 1	16.46
Highest(2462MHz)	15.30	15.30 ± 1	16.30

WIFI

Worst case: 802.11n(HT20)						
Channel	Maximum Peak Conducted Output Power (dBm)	Maximum Peak Conducted Output Power (MW)	Antenna Gain (dBi)	Power Density at R = 20 cm (mW/cm ²)	Limit	Result
Highest(2462 MHz)	18.30	67.60	0.66	0.0156	1.0	Pass

Note: 1) Refer to report **MTEB23020012-R1** for EUT test Max Conducted average Output Power value.

Note: 2) $P_d = (P_{out} * G) / (4 * \pi * R^2) = (67.60 * 1.16) / (4 * 3.1416 * 20^2) = 0.0156$

.....THE END OF REPORT.....