

RF Exposure Report

FCC ID: 2BLYR-A30G

Report No. : SSP24100192-2E

Applicant : Shenzhen Zeqing Electronics Co.Ltd

Product Name : Dash cam

Model Name : A30G

Test Standard : FCC CFR 47 PART 1.1307(b)

Date of Issue : 2024-11-04



Shenzhen CCUT Quality Technology Co., Ltd.

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This test report is limited to the above client company and the product model only. It may not be duplicated without prior permitted by Shenzhen CCUT Quality Technology Co., Ltd.

Test Report Basic Information

Applicant.....: Shenzhen Zeqing Electronics Co.Ltd
502 5th Floor Unit 1 Building B Runchangyuan Industrial Zone Banlan
Address of Applicant.....: Avenue Xinxue Community Bantian Street Longgang District Shenzhen China

Manufacturer.....: Shenzhen Zeqing Electronics Co.Ltd
502 5th Floor Unit 1 Building B Runchangyuan Industrial Zone Banlan
Address of Manufacturer.....: Avenue Xinxue Community Bantian Street Longgang District Shenzhen China

Product Name.....: Dash cam

Brand Name.....: -

Main Model.....: A30G

Series Models.....: A50G, A15G, M60, A6W

FCC CFR 47 PART 1.1307(b)

Test Standard.....: KDB 447498 D01 v06

Date of Test: 2024-10-22 to 2024-10-31

Test Result.....: PASS

Tested By: Walker Wu (Walker Wu)

Reviewed By.....: Lieber Ouyang (Lieber Ouyang)

Authorized Signatory.....: Lahm Peng (Lahm Peng)



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Revision History

Revision	Issue Date	Description	Revised By
V1.0	2024-11-04	Initial Release	Lahm Peng

1. General Information

1.1 Product Information

Product Name:	Dash cam
Trade Name:	-
Main Model:	A30G
Series Models:	A50G, A15G, M60, A6W
Rated Voltage:	DC 5V/2A
Test Sample No:	SSP24100192-1
Hardware Version:	V1.0
Software Version:	V1.0
Note 1: The test data is gathered from a production sample, provided by the manufacturer. Note 2: The color of appearance and model name of series models listed are different from the main model, but the circuit and the electronic construction are the same, declared by the manufacturer.	

Wireless Specification	
Wireless Standard:	802.11b/g/n
Operating Frequency:	2412MHz ~ 2462MHz for 802.11b/g/n(HT20) 2422MHz ~ 2452MHz for 802.11n(HT40)
RF Output Power:	10.92dBm
Antenna Gain:	3.59dBi
Type of Antenna:	SMD Antenna
Type of Device:	<input type="checkbox"/> Portable Device <input checked="" type="checkbox"/> Mobile Device <input type="checkbox"/> Modular Device

1.2 Test Facilities

Laboratory Name:	Shenzhen CCUT Quality Technology Co., Ltd. 1F, Building 35, Changxing Technology Industrial Park, Yutang Street, Guangming District, Shenzhen, Guangdong, China
CNAS Laboratory No.:	L18863
A2LA Certificate No.:	6893.01
FCC Registration No.:	583813
ISED Registration No.:	CN0164
All measurement facilities used to collect the measurement data are located at 1F, Building 35, Changxing Technology Industrial Park, Yutang Street, Guangming District, Shenzhen, Guangdong, China.	

2. RF Exposure

2.1 Standard and Limit

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 1.1307(b)

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 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, $\pi = 3.1416$;

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.

Test Procedure

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

2.2 Test Data and Results

For 2.4G WiFi

Mode	Frequency (MHz)	Output power to antenna (dBm)	Tune-up Power(dBm)	Max Tune-up Power(dBm)	Output power to antenna (mW)	Power Density at R=20cm (mW/cm ²)	Limit (mW/cm ²)	Result
802.11b	2412	10.92	10(± 1)	11	12.59	0.0057	1.0	PASS

Remark: antenna gain=3.59dBi