



Shenzhen Huaxia Testing Technology Co., Ltd

1F., Block A of Tongsheng Technology Building, Huahui Road, Dalang Street, Longhua District, Shenzhen, China

Telephone: +86-755-26648640

Fax: +86-755-26648637

Website: www.cqa-cert.com

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RF Exposure Evaluation Report

Report No.: CQASZ20180400015E-04

Applicant: Weccan Industrial Ltd

Address of Applicant: Room209, 2/F, Building W1-A, No.34 Gaoxin South 4th Street, Hi-tech Industrial Park, Nanshan District, Shenzhen, China

Manufacturer: Weccan Industrial Ltd

Address of Manufacturer: Room209, 2/F, Building W1-A, No.34 Gaoxin South 4th Street, Hi-tech Industrial Park, Nanshan District, Shenzhen, China

Factory: DongGuan Adoree Industrial Limited

Address of Factory: Building 10, Fuxing Industrial Area, Fucing Road, Xiangang Village, Changan Town, Dongguang City, Guangdong Province China.

Equipment Under Test (EUT):

Product: 2.4 G RC Drone With WIFI Camera

Model No.: DRW328

Adding Model No.: Please see Page 5

Brand Name: N/A

FCC ID: Z3CDRW328F33

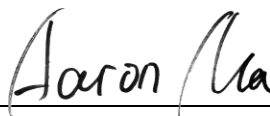
Standards: 47 CFR Part 1.1307
47 CFR Part 2.1093
KDB447498D01 General RF Exposure Guidance v06

Date of Test: 2018-04-20 to 2018-04-27

Date of Issue: 2018-04-27

Test Result : PASS*


Tested By:


(Aaron Ma)

Reviewed By:


(Owen Zhou)

Approved By:


(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.

2 Version

Revision History Of Report

Report No.	Version	Description	Issue Date
CQASZ20180400015E-04	Rev.01	Initial report	2018-04-27

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4 General Information

4.1 Client Information

Applicant:	Weccan Industrial Limited
Address of Applicant:	Rm209,2/F,Building W1-A, No.34 Gaoxin South 4th Street, Hi-Tech Industrial Park, Nanshan District, Shenzhen City,China
Manufacturer:	Weccan Industrial Limited
Address of Manufacturer:	Rm209,2/F,Building W1-A, No.34 Gaoxin South 4th Street, Hi-Tech Industrial Park, Nanshan District, Shenzhen City,China
Factory:	Dongguan Adoree Industrial Limited
Address of Factory:	Building 10, Fuxing Industrial Area, Fuxing Road, Xiagang Village, Changan Town, Dongguan City, Guangdong Province, China

4.2 General Description of EUT

Product Name:	2.4 G RC Drone With WIFI Camera
Model No.:	DRW328
Adding Model No.:	SG-F33, SG-F1, SG-F2, SG-F3, SG-F4, SG-F5, SG-F6, SG-F7, SG-F8, SG-F9, SG-F10, SG-F11, SG-F12, SG-F13, SG-F14, SG-F15, SG-F16, SG-F17, SG-F18, SG-F19, SG-F20, SG-F21, SG-F22, SG-F23, SG-F24, SG-F25, SG-F26, SG-F27, SG-F28, SG-F29, SG-F30, SG-F31, SG-F32, SG-F34, SG-F35, SG-F36, SG-F37, SG-F38, SG-F39, SG-F40, SG-F41, SG-F42, SG-F43, SG-F44, SG-F45, SG-F46, SG-F47, SG-F48, SG-F49, SG-F50, SG-F51, SG-F52, SG-F53, SG-F54, SG-F55, SG-F56, SG-F57, SG-F58, SG-F59, SG-F60, SG-F61, SG-F62, SG-F63, SG-F64, SG-F65, SG-F66, SG-F67, SG-F68, SG-F69, SG-F70, SG-F71, SG-F72, SG-F73, SG-F74, SG-F75, SG-F76, SG-F77, SG-F78, SG-F79, SG-F80, SG-F81, SG-F82, SG-F83, SG-F84, SG-F85, SG-F86, SG-F87, SG-F88, SG-F89, SG-F90, SG-F91, SG-F92, SG-F93, SG-F94, SG-F95, SG-F96, SG-F97, SG-F98, SG-F99, SG-F100
Trade Mark :	N/A
Hardware Version:	V1.0
Software Version:	V1.0
Frequency Range:	2424 MHz ~ 2480MHz
Modulation Type:	GFSK
Number of Channels:	57 (declared by the client)
Sample Type:	Portable production
Test Software of EUT:	RF test (manufacturer declare)
Antenna Type:	Integral antenna
Antenna Gain:	1.3dBi
Power Supply:	4 x AAA battery, DC6V

5 SAR Evaluation

5.1 RF Exposure Compliance Requirement

5.1.1 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.

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:

$$\left[\frac{\text{max. power of channel, including tune-up tolerance, mW}}{[\sqrt{f(\text{GHz})}]^2} \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR, where} \right.$$

$f(\text{GHz})$ 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

5.1.3 EUT RF Exposure

$$e_{\text{irp}} = p_t \times g_t = (E \times d)^2 / 30$$

where:

p_t = transmitter output power in watts,

g_t = numeric gain of the transmitting antenna (unitless),

E = electric field strength in V/m, $10^{((\text{dB}\mu\text{V/m})/20)/10^6}$,

d = measurement distance in meters (m)---3m,

$$\text{So } p_t = (E \times d)^2 / 30 / g_t$$

The worst case (refer to report CQASZ20180400015E-03) is below:

For 2.4G wireless:

Field strength = 93.58dB μ V/m @3m

Ant. gain 1.3dBi; so Ant numeric gain=1.35

$$\text{So } p_t = \left[\left(10^{(93.58/20)} / 10^6 \times 3 \right)^2 / 30 / 1.35 \right] \times 1000 \text{mW} = 0.507 \text{mW}$$

$$\text{So } (0.507 \text{mW} / 5 \text{mm}) \times \sqrt{2.480 \text{GHz}} = 0.16,$$

$$0.16 < 3.0 \text{ for 1-g SAR}$$

So the SAR report is not required.