

RF EXPOSURE EVALUATION REPORT

Application No.: GZCR2208001095AT
Applicant: SZ DJI TECHNOLOGY CO., LTD.
Address of Applicant: 14th floor, West Wing, Skyworth Semiconductor Design Building NO.18 Gaoxin South 4th Ave, Nanshan District, Shenzhen, Guangdong, China
Manufacturer: SZ DJI TECHNOLOGY CO., LTD.
Address of Manufacturer: 14th floor, West Wing, Skyworth Semiconductor Design Building NO.18 Gaoxin South 4th Ave, Nanshan District, Shenzhen, Guangdong, China
Equipment Under Test (EUT):
EUT Name: DJI Mavic 3 Classic
Model No.: L2C
Trade Mark: DJI
Standard(s) : 47 CFR Part 1.1307
47 CFR Part 1.1310
47 CFR Part 2.1091
Date of Receipt: 2022-08-29
Date of Evaluation: 2022-08-30 to 2022-09-05
Date of Issue: 2022-09-07

Evaluation Result:	Pass*
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* In the configuration evaluated, the EUT complied with the standards specified above.

Kobe Jian
EMC Laboratory Manager



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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2022-09-07		Original

Authorized for issue by			
			
		<hr/> Curry Wu/Project Engineer	
			
		<hr/> Ricky Liu/Reviewer	



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2 Evaluation Summary

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:	Input: DC 15.4V DC 15.4V 5000mAh, 77Wh Lithium-ion rechargeable battery(to be charged from Type C port), Model: BWX260-5000-15.4
For BLE	
Operation Frequency:	2402MHz to 2480MHz
Modulation Type:	GFSK
Number of Channels:	40
Channel Spacing:	2MHz
Data Rate:	1Mbps, 2Mbps
Antenna Type:	PCB Antenna
Antenna Gain:	-2.5dBi
For 2.4GHz Wi-Fi	
Operation Frequency:	802.11b/g/n/ax(HT20/HE20): 2412MHz to 2462MHz 802.11n/ax(HT40/HEW40): 2422MHz to 2452MHz
Modulation Type:	802.11b: DSSS (CCK, DQPSK, DBPSK) 802.11g/n: OFDM (64QAM, 16QAM, QPSK, BPSK) 802.11ax: OFDM&OFDMA (256QAM, 64QAM, 16QAM, QPSK, BPSK)
Number of Channels:	802.11802.11b/g/n(HT20)/ax(HE20): 11 802.11n(HT40)/ax(HEW40):7
Channel Spacing:	5MHz
Antenna Type:	PCB Antenna
Antenna Gain:	Antenna 0: -2.5dBi Antenna 1: -2.5dBi



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For 2.4GHz SDR	
Operation Frequency:	1.4MHz BW:2403.5MHz-2469.5MHz; 1.4MHz BW CA:2405.12MHz-2471.12MHz; 3MHz BW:2405.5MHz-2468.5MHz; 3MHz BW CA:2408.2MHz-2471.2MHz; 10MHz BW:2407.5MHz-2467.5MHz; 20MHz BW:2412.5MHz-2462.5MHz; 40MHz BW:2422.5MHz-2452.5MHz
Modulation Type:	OFDM
Number of Channels:	1.4MHz BW:34; 1.4MHz BW CA:34; 3MHz BW:22; 3MHz BW CA:22; 10MHz BW:61; 20MHz BW:51; 40MHz BW:31
Channel Spacing:	1.4MHz BW:2MHz; 1.4MHz BW CA:2MHz; 3MHz BW:3MHz; 3MHz BW CA:3MHz; 10MHz BW:1MHz; 20MHz BW:1MHz; 40MHz BW:1MHz
Antenna Type:	FPC Antenna
Antenna Gain:	Antenna 0&3: 1.5dBi, Antenna 1&2: 2.0dBi
Antenna Combination:	Antenna 0+Antenna 1, Antenna 0+Antenna 3, Antenna 1+Antenna2, Antenna 2+Antenna 3



For 5.8GHz Wi-Fi	
DFS Function:	Slaver without radar detection
TPC Function:	Not Support
Antenna Type:	PCB Antenna
Antenna Gain:	Antenna 1&2: 2.0dBi

Operation Frequency:	Band	Mode	Frequency Range(MHz)	Number of channels
	UNII Band III	802.11a/n(HT20)/ac(VHT20)/ax(HEW20)	5745-5825	5
		802.11n(HT40)/ac(VHT40)/ax(HEW40)	5755-5795	2
		802.11ac(VHT80)/ax(HEW80)	5775	1
Modulation Type:	802.11a: OFDM (BPSK, QPSK, 16QAM, 64QAM) 802.11n: OFDM (BPSK, QPSK, 16QAM, 64QAM) 802.11ac: OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM) 802.11ax: OFDM&OFDMA (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM)			
Channel Spacing:	802.11a/n(HT20)/ac(VHT20)/ax(HEW20) : 20MHz 802.11n(HT40)/ac(VHT40)/ax(HEW40) : 40MHz 802.11ac(VHT80)/ax(HEW80) : 80MHz			

For 5.1GHz SDR	
Operation Frequency:	10MHz BW: 5157MHz-5245MHz 20MHz BW: 5161MHz-5240MHz 40MHz BW: 5170MHz-5230MHz
Modulation Type:	OFDM
Number of Channels:	10MHz BW: 89 20MHz BW: 80 40MHz BW: 61
Channel Spacing:	10MHz BW:1MHz; 20MHz BW:1MHz; 40MHz BW:1MHz
DFS Function:	Without DFS function
TPC Function:	Without TPC function
Antenna Type:	FPC Antenna
Antenna Gain:	Antenna 0&3: 3dBi, Antenna 1&2: 1.0dBi
Antenna Combination:	Antenna 0+Antenna 1, Antenna 0+Antenna 3, Antenna 1+Antenna 2, Antenna 2+Antenna 3



For 5.8GHz SDR	
Operation Frequency:	1.4MHz BW:5728.5MHz-5846.5MHz; 1.4MHz BW CA:5730.12MHz-5848.12MHz; 3MHz BW:5727.5MHz-5844.5MHz; 3MHz BW CA:5730.2MHz-5847.2MHz; 10MHz BW:5730.5MHz-5844.5MHz; 20MHz BW:5735.5MHz-5839.5MHz; 40MHz BW:5745.5MHz-5829.5MHz
Modulation Type:	OFDM
Number of Channels:	1.4MHz BW:60; 1.4MHz BW CA:60; 3MHz BW:40; 3MHz BW CA:40; 10MHz BW:115; 20MHz BW:105; 40MHz BW:85
Channel Spacing:	1.4MHz BW:2MHz; 1.4MHz BW CA:2MHz; 3MHz BW:3MHz; 3MHz BW CA:3MHz; 10MHz BW:1MHz; 20MHz BW:1MHz; 40MHz BW:1MHz
Antenna Type:	FPC Antenna
Antenna Gain:	Antenna 0&3: 3.0dBi, Antenna 1&2: 2.5dBi
Antenna Combination:	Antenna 0+Antenna 1, Antenna 0+Antenna 3, Antenna 1+Antenna 2, Antenna 2+Antenna 3

Remark: Wi-Fi and SDR function can transmit Synchronously when operating at different frequency.

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:

- **NVLAP (Lab Code: 200611-0)**

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou EMC Laboratory is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP/NIST). NVLAP Code: 200611-0.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

- **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.

- **CNAS (Lab Code: L0167)**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been assessed and in compliance with CNAS-CL01:2018 accreditation criteria for testing laboratories (identical to ISO/IEC 17025:2017 General Requirements) for the Competence of Testing Laboratories.

- **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 Radio Spectrum Technical Requirement

5.1 RF Exposure Compliance Requirement

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

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.

5.1.2 Test Procedure

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



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5.1.3 EUT RF Exposure Evaluation

For BLE:

Antenna Gain: Antenna 0: - 2.5dBi

Antenna Gain: The maximum Gain measured in fully anechoic chamber is 0.56 in linear scale.

Frequency (MHz)	Antenna	Max Conducted Peak Output Power (dBm)	Output Power to Antenna (mW)	Power Density at R = 20 cm (mW/cm ²)	Limit	Result
1	2480	5.83	3.83	0.0004	1.0	PASS

Note: Max Conducted Output Power Refer to report No. GZCR220800109501.

For 2.4GHz Wi-Fi:

Antenna Gain: Antenna 0: -2.5dBi, Antenna 1: -2.5dBi

Antenna Gain: The maximum Gain measured in fully anechoic chamber is Antenna 0: 0.56,

Antenna 1: 0.56 in linear scale.

SISO:

Frequency (MHz)	Antenna	Max Conducted Peak Output Power (dBm)	Output Power to Antenna (mW)	Power Density at R = 20 cm (mW/cm ²)	Limit	Result
2462	0	17.61	57.68	0.0064	1.0	PASS

MIMO:

Frequency (MHz)	Antenna	Max Conducted Peak Output Power (dBm)	Output Power to Antenna (mW)	Power Density at R = 20 cm (mW/cm ²)	Limit	Result
2462	0+1	20.03	100.69	0.0112	1.0	PASS

Note: Max Conducted Output Power Refer to report No. GZCR220800109502.



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For 2.4GHz SDR:

Antenna Gain: Antenna 0&3: 1.5dBi, Antenna 1&2: 2.0dBi,

Antenna Gain: The maximum Gain measured in fully anechoic chamber are Antenna 0&3: 1.41, Antenna 1&2: 1.58 in linear scale.

SISO:

Frequency (MHz)	Antenna	Max Conducted Peak Output Power (dBm)	Output Power to Antenna (mW)	Power Density at R = 20 cm (mW/cm ²)	Limit	Result
2412.5	0	26.55	451.86	0.1268	1.0	PASS

MIMO:

Frequency (MHz)	Antenna	Max Conducted Peak Output Power (dBm)	Output Power to Antenna (mW)	Power Density at R = 20 cm (mW/cm ²)	Limit	Result
2437.5	1+2	28.78	755.09	0.2373	1.0	PASS

Note: Max Conducted Output Power Refer to report No. GZCR220800109504.

For 5.8GHz Wi-Fi:

Antenna Gain: Antenna 0&1: 2.0dBi

Antenna Gain: The maximum Gain measured in fully anechoic chamber are Antenna 1&2: 1.58 in linear scale.

SISO:

Frequency (MHz)	Antenna	Max Conducted Peak Output Power (dBm)	Output Power to Antenna (mW)	Power Density at R = 20 cm (mW/cm ²)	Limit	Result
5825	0	16.80	47.86	0.0150	1.0	PASS

MIMO:

Frequency (MHz)	Antenna	Max Conducted Peak Output Power (dBm)	Output Power to Antenna (mW)	Power Density at R = 20 cm (mW/cm ²)	Limit	Result
5825	0+1	18.84	76.56	0.0241	1.0	PASS

Note: Max Conducted Output Power Refer to report No. GZCR220800109503.



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For 5.1GHz SDR:

Antenna Gain: Antenna 0&3: 3.0dBi, Antenna 1&2: 1dBi

Antenna Gain: The maximum Gain measured in fully anechoic chamber are Antenna 0&3: 2.0, Antenna 1&2: 1.26 in linear scale.

SISO:

Frequency (MHz)	Antenna	Max Conducted Peak Output Power (dBm)	Output Power to Antenna (mW)	Power Density at R = 20 cm (mW/cm ²)	Limit	Result
5200	1	19.17	82.60	0.0207	1.0	PASS

MIMO:

Frequency (MHz)	Antenna	Max Conducted Peak Output Power (dBm)	Output Power to Antenna (mW)	Power Density at R = 20 cm (mW/cm ²)	Limit	Result
5200	0+3	17.36	54.45	0.0217	1.0	PASS

Note: Max Conducted Output Power Refer to report No. GZCR220800109506.

For 5.8GHz SDR:

Antenna Gain: Antenna 0&3: 3.0dBi, Antenna 1&2: 2.5dBi

Antenna Gain: The maximum Gain measured in fully anechoic chamber are Antenna 0&3: 2.0, Antenna 1&2: 1.78 in linear scale.

SISO:

Frequency (MHz)	Antenna	Max Conducted Peak Output Power (dBm)	Output Power to Antenna (mW)	Power Density at R = 20 cm (mW/cm ²)	Limit	Result
5844.5	3	25.28	337.29	0.1342	1.0	PASS

MIMO:

Frequency (MHz)	Antenna	Max Conducted Peak Output Power (dBm)	Output Power to Antenna (mW)	Power Density at R = 20 cm (mW/cm ²)	Limit	Result
5844.5	0+1	29.69	931.11	0.3705	1.0	PASS

Note: Max Conducted Output Power Refer to report No. GZCR220800109505.



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Synchronously Transmission
2.4G Wi-Fi+5.1G SDR

Ratio of Power Density (mW/cm ²) of 2.4G Wi-Fi at R = 20 cm	Ratio of Power Density (mW/cm ²) of 5.1G SDR at R = 20 cm	Total ratios of simultaneous transmitting at R =20cm	Limit	Result
0.0112	0.0217	0.0329	1.0	PASS

2.4G Wi-Fi+5.8G SDR

Ratio of Power Density (mW/cm ²) of 2.4G Wi-Fi at R = 20 cm	Ratio of Power Density (mW/cm ²) of 5.8G SDR at R = 20 cm	Total ratios of simultaneous transmitting at R =20cm	Limit	Result
0.0112	0.3705	0.3817	1.0	PASS

5.8G Wi-Fi+2.4G SDR

Ratio of Power Density (mW/cm ²) of 5.8G Wi-Fi at R = 20 cm	Ratio of Power Density (mW/cm ²) of 2.4G SDR at R = 20 cm	Total ratios of simultaneous transmitting at R =20cm	Limit	Result
0.0241	0.2373	0.2614	1.0	PASS

Remark:

BLE do not Synchronously Transmission with Wi-Fi and SDR, Wi-Fi and SDR Synchronously Transmission at different frequency band.



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6 EUT Constructional Details (EUT Photos)

Refer to appendix - external and internal photos for GZCR2208001095AT

- End of the Report -



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