



SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230800255904

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1 Cover Page

Test Report

Application No.: SZCR2308002559AT
Applicant: SZ DJI TECHNOLOGY CO., LTD.
Address of Applicant: Lobby of T2, DJI Sky City, No. 53 Xianyuan Road, Xili Community, Xili Street, Nanshan District, Shenzhen, China.
Manufacturer: SZ DJI TECHNOLOGY CO., LTD.
Address of Manufacturer: Lobby of T2, DJI Sky City, No. 53 Xianyuan Road, Xili Community, Xili Street, Nanshan District, Shenzhen, China.
Equipment Under Test (EUT):
EUT Name: DJI FlyCart 30
Model No.: E2MTR-30A
Trade Mark: DJI
FCC ID: SS3-E2MTR2302
Standard(s) : FCC Rules 47 CFR §2.1091
KDB 447498 D04 interim General RF Exposure Guidance v01
Date of Receipt: 2023-08-08
Date of Test: 2023-08-18 to 2023-09-08
Date of Issue: 2023-09-18

Test Result:	Pass*
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* In the configuration tested, the EUT complied with the standards specified above.

Keny Xu

Keny Xu
EMC Laboratory Manager



SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch Technical Services Co., Ltd. EMC Laboratory

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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2023-09-18		Original

Authorized for issue by:				
		Darren Yuan		
		Darren Yuan/Project Engineer		
		Eric Fu		
		Eric Fu/Reviewer		



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3 General Information

3.1 General Description of E.U.T.

Product Type:	☐ Portable device
	☒ Mobile device
	☐ Fixed device

3.2 Details of E.U.T.

Power supply:	Powered by Lithium-Ion Polymer Rechargeable Battery Battery Information Model: BAX101-38000mAh-52.22V Nominal Voltage: 52.22V Rated Capacity: 38000mAh, 1984.4Wh
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2.4G SDR	
Operation Frequency:	1.4MHz: 2403.5MHz-2469.5MHz and 2405.12MHz-2479.12MHz 3MHz: 2405.5MHz-2468.5MHz and 2408.2MHz-2471.2MHz 10MHz: 2407.5MHz-2467.5MHz 20MHz: 2412.5MHz-2462.5MHz 40MHz: 2422.5MHz-2452.5MHz
Modulation Type:	OFDM
Channel Spacing:	1.4MHz: 2MHz 3MHz: 3MHz 10MHz: 1MHz 20MHz: 1MHz 40MHz: 1MHz
Number of Channels:	1.4MHz: 72 3MHz: 44 10MHz: 61 20MHz: 51 40MHz: 31
Antenna Type:	PIFA Antenna
Antenna Gain:	ANT0&ANT1: 4.2dBi ANT2&ANT3: 4.24dBi



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5.8G SDR	
Operation Frequency:	1.4MHz: 5728.5MHz-5846.5MHz and 5730.12MHz-5848.12MHz 3MHz: 5727.5MHz-5844.5MHz and 5730.2MHz-5847.2MHz 10MHz: 5730.5MHz-5844.5MHz 20MHz: 5735.5MHz-5839.5MHz 40MHz: 5745.5MHz-5829.5MHz
Modulation Type:	OFDM
Channel Spacing:	1.4MHz: 2MHz 3MHz: 3MHz 10MHz: 1MHz 20MHz: 1MHz 40MHz: 1MHz
Number of Channels:	1.4MHz: 120 3MHz: 80 10MHz: 115 20MHz: 105 40MHz: 85
Antenna Type:	PIFA Antenna
Antenna Gain:	ANT0&ANT1&ANT2&ANT3: 4dBi



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Forward Phased Array Radar (RD241608RF), it includes single board radar and omnidirectional radar	
Operation Frequency:	24.00GHz to 24.25GHz
Modulation:	FMCW
Antenna type:	Linear Antenna
Antenna Gain:	10dBi (Provided by the manufacturer)

Rear Phased Array Radar (RD241608RB)	
Operation Frequency:	24.00GHz to 24.25GHz
Modulation:	FMCW
Antenna type:	Linear Antenna
Antenna Gain:	10dBi (Provided by the manufacturer)

Remark: The information in this section is provided by the applicant or manufacturer, SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

Separation Distance

Minimum test separation distance:	20cm
Remark: This minimum test separation distance is determined by the smallest distance from the antenna and radiating structures or outer surface of the device, according to the host form factor, exposure conditions and platform requirements, to any part of the body or extremity of a user or bystander.	



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3.3 Test Location

All tests were performed at:

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Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

3.4 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **A2LA (Certificate No. 3816.01)**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

- **VCCI (Member No. 1937)**

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen EMC laboratory have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

- **FCC –Designation Number: CN1336**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1336. Test Firm Registration Number: 787754.

- **Innovation, Science and Economic Development Canada**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.



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4 FCC Radiofrequency radiation exposure limits

According to §1.1310, the limit for general population/uncontrolled exposures

Frequency	Power density(mW/cm ²)	Averaging time(minutes)
300MHz~1.5GHz	f/1500	30
1.5GHz~100GHz	1.0	30



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5 Measurement and Calculation

Standalone transmission

Test Mode	Maximum EIRP (dBm)	Maximum Power density(mW/cm ²)	Limit (mW/cm ²)	Ratio	Verdict
2.4G SDR	33	0.3969	1.0	0.3969	Pass
5.8G SDR	33	0.3969	1.0	0.3969	Pass
24G Radar (RD241608RF) Omnidirectional radar	20	0.0199	1.0	0.0199	Pass
24G Radar (RD241608RF) Single board radar	20	0.0199	1.0	0.0199	Pass
24G Radar (RD241608RB)	20	0.0199	1.0	0.0199	Pass

Note: The maximum EIRP value refer to user manual.

Simultaneous transmission

Test Mode	2.4G SDR	5.8G SDR	24G Radar (RD241608RF) Omnidirectional radar	24G Radar (RD241608RF) Single board radar	24G Radar (RD241608RB)	Total Ratio	Limit	Result
Ratio	0.3969	0.3969	0.0199	0.0199	0.0199	N/A	N/A	N/A
Scenario 1	☒		☒	☒	☒	0.4566	1.0	Pass
Scenario 2		☒	☒	☒	☒	0.4566	1.0	Pass

So, the device is to qualify for SAR test exemption, the exemption report is in lieu of the SAR report.

--End of the Report--