

1 Cover Page

Test Report

Application No.: SZCR2304001225AT
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: Agras T50/Agras T25
Model No.: 3WWDZ-40B, 3WWDZ-20B ♣
 ♣ Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.
Trade Mark: DJI
FCC ID: SS3-T50A2303
Standard(s) : FCC Rules 47 CFR §2.1091
 KDB 447498 D04 interim General RF Exposure Guidance v01
Date of Receipt: 2023-04-26
Date of Test: 2023-05-06 to 2023-06-26
Date of Issue: 2023-06-28

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

Keny Xu
EMC Laboratory Manager



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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2023-06-28		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:	<input type="checkbox"/> Portable device
	<input checked="" type="checkbox"/> Mobile device
	<input type="checkbox"/> Fixed device

3.2 Details of E.U.T.

Power supply:	<p>Powered by Lithium-Ion Polymer Rechargeable Battery</p> <p>Battery Information for 3WWDZ-40B</p> <p>Model: BAX702-30000mAh-52.22V</p> <p>Nominal Voltage: 52.22V</p> <p>Rated Capacity: 30000mAh, 1566.6Wh</p> <p>Battery Information for 3WWDZ-20B</p> <p>Model: BAX702-15500mAh-52.22V</p> <p>Nominal Voltage: 52.22V</p> <p>Rated Capacity: 15500mAh, 809.4Wh</p>
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2.4G SDR	
Operation Frequency:	1.4MHz: 2403.5MHz-2469.5MHz 1.4MHz CA: 2405.12MHz-2471.12MHz 3MHz: 2405.5MHz-2468.5MHz 3MHz CA: 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 1.4MHz CA: 2MHz 3MHz: 3MHz 3MHz CA: 3MHz 10MHz: 1MHz 20MHz: 1MHz 40MHz: 1MHz
Number of Channels:	1.4MHz: 34 1.4MHz CA: 34 3MHz: 22 3MHz CA: 22 10MHz: 61 20MHz: 51 40MHz: 31
Antenna Type:	Dipole Antenna
Antenna Gain:	ANT0&ANT1&ANT2&ANT3: 2.5dBi



5.8G SDR	
Operation Frequency:	1.4MHz: 5728.5MHz-5846.5MHz 1.4MHz CA: 5730.12MHz-5848.12MHz 3MHz: 5727.5MHz-5844.5MHz 3MHz CA: 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 1.4MHz CA: 2MHz 3MHz: 3MHz 3MHz CA: 3MHz 10MHz: 1MHz 20MHz: 1MHz 40MHz: 1MHz
Number of Channels:	1.4MHz: 60 1.4MHz CA: 60 3MHz: 40 3MHz CA: 40 10MHz: 115 20MHz: 105 40MHz: 85
Antenna Type:	Dipole Antenna
Antenna Gain:	ANT0&ANT1&ANT2&ANT3: 2dBi



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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: KDB 447498 D04 v01 is not accredited by A2LA



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Declaration of EUT Family Grouping:

Model No.: 3WWDZ-40B, 3WWDZ-20B

According to the declaration from the applicant, the electrical circuit design, PCB layout and internal wiring and functions were identical for the above models, with only difference on as below.

	3WWDZ-40B	3WWDZ-20B
Motor	8pcs	4pcs
Size (open paddle)	Max. 2800×3085×860 mm	Max. 2585×2675×795 mm
Battery	30000mAh	15500mAh

Both 3WWDZ-40B and 3WWDZ-20B were pre-tested, 3WWDZ-40B was the worse-case, only the worse-case test data were recorded in this report.





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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:

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

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China. 518057.

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.



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	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	0.4566	1.0	Pass
Scenario 2		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	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--



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