

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

SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241000402806

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Test Report

Application No.: SZCR2410004028AT
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, 518055 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, 518055 Shenzhen, China
Equipment Under Test (EUT):
EUT Name: AGRAS T70/AGRAS T70P
Model No.: 3WWDZ-U50B, 3WWDZ-U70A ♣
 ♣ Please refer to section 3 of this report which indicates which model was actually tested and which were electrically identical.
Trade Mark: DJI
FCC ID: SS3-T702412
Standard(s) : FCC Rules 47 CFR §2.1091
 KDB 447498 D04 interim General RF Exposure Guidance v01
Date of Receipt: 2024-12-27
Date of Test: 2025-03-04 to 2025-03-13
Date of Issue: 2025-03-16

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



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Shenzhen Branch EMC Laboratory

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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2025-03-16		Original

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



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2 General Information

2.1 General Description of E.U.T.

Product Type:	<input type="checkbox"/> Portable device
	<input checked="" type="checkbox"/> Mobile device
	<input type="checkbox"/> Fixed device

2.2 Details of E.U.T.

Power supply:	Powered by Lithium-Ion Polymer Rechargeable Battery Battery information Battery 1 Model: BAX901-41000mAh-52.78V Nominal Voltage: 52.78V Rated Capacity: 41000mAh, 2164Wh Battery 2 Model: BAX811-30000mAh-52.5V Nominal Voltage: 52.5V Rated Capacity: 30000mAh, 1575Wh
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For 2.4G SDR:	
Operation Frequency:	10MHz mode: 2407.5MHz-2467.5MHz 20MHz mode: 2412.5MHz-2462.5MHz 40MHz mode: 2422.5MHz-2452.5MHz 60MHz mode: 2432.5MHz-2442.5MHz
Modulation Type:	OFDM
Channel Spacing:	10MHz mode: 1MHz 20MHz mode: 1MHz 40MHz mode: 1MHz 60MHz mode: 1MHz
Number of Channels:	10MHz mode: 61 20MHz mode: 51 40MHz mode: 31 60MHz mode: 11
Antenna Type:	Dipole Antenna
Antenna Gain:	ANT0: 3.5dBi, ANT1: 3.5dBi, ANT2: 3.5dBi, ANT3: 3.5dBi



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For 5G SDR:	
Operation Frequency:	10MHz: 5730.5MHz-5844.5MHz 20MHz: 5735.5MHz-5839.5MHz 40MHz: 5745.5MHz-5829.5MHz 60MHz: 5755.5MHz-5819.5MHz 80MHz: 5765.5MHz-5809.5MHz
Modulation Type:	OFDM
Channel Spacing:	10MHz: 1MHz 20MHz: 1MHz 40MHz: 1MHz 60MHz: 1MHz 80MHz: 1MHz
Number of Channels:	10MHz: 115 20MHz: 105 40MHz: 85 60MHz: 65 80MHz: 45
Antenna Type:	Dipole Antenna
Antenna Gain:	ANT0: 3.0dBi, ANT1: 3.0dBi, ANT2: 3.0dBi, ANT3: 3.0dBi

24G Radar		
Operation Frequency:	24.05-24.25GHz	
Modulation:	FMCW	
Antenna Type:	Phased Array Antenna	
Antenna Gain:	Front radar antenna	Omnidirectional Radar Antenna: 10dBi
		Upward Radar Antenna: 10dBi
	Rear radar antenna: 10dBi	

Note1: Front radar has certified, FCC ID is SS3-RD702412

Note2: Rear radar has certified, FCC ID is SS3-RD241608RB2

Declaration of EUT Family Grouping:

Model No.: 3WWDZ-U50B, 3WWDZ-U70A

Only the model 3WWDZ-U50B was tested, since according to the declaration from the applicant, the electrical circuit design, PCB layout, components used and internal wiring and functions were identical for the above models, with only difference on the two models are equipped with water tanks of different capacities and are paired with batteries of different capacities ,3WWDZ-U50B equipped with 50L water tanks and BAX811- 3000mAh-52.5V battery, 3WWDZ-U70A equipped with 70L water tanks and BAX901- 41000mAh-52.78V battery.



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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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2.3 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.

2.4 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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3 FCC Radiofrequency radiation exposure limits

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

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
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



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4 Measurement and Calculation

Standalone transmission:

Mode	Maximum EIRP (dBm)	Power Density (mW/cm ²)	Limit of Power Density (mW/cm ²)	Ratio	Verdict
2.4G Wi-Fi	33	0.397	1.000	0.3971	Pass
2.4G SDR	33	0.397	1.000	0.3971	Pass
5G SDR	33	0.397	1.000	0.3971	Pass
Rear radar	20	0.020	1.000	0.0199	Pass
Omnidirectional Radar	20	0.020	1.000	0.0199	Pass
Upward Radar	20	0.020	1.000	0.0199	Pass

Note1: The maximum EIRP is refer to the user manual

Simultaneous transmission

Test Mode	2.4G Wi-Fi	2.4G SDR	5.8G SDR	Rear radar	Omnidirectional Radar	Upward Radar	Total Ratio	Limit	Verdict
Maximum Ratio	0.3971	0.3971	0.3971	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"/>	0.4568	1.0	Pass
Scenario 2		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	0.4568	1.0	Pass
Scenario 3			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	0.4568	1.0	Pass

The EUT meet the Exemption Limits for Routine Evaluation – SAR Evaluation, so no SAR evaluation is required for the EUT.

- End of the Report -