

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

SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200481506

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Test Report

Application No.: SZCR2412004815AT
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: Matrice 400A
Model No.: M400A
Trade Mark: DJI
FCC ID: SS3-M400A2412
Standard(s) : FCC Rules 47 CFR §2.1091
KDB 447498 D04 interim General RF Exposure Guidance v01
Date of Receipt: 2024-12-20
Date of Test: 2024-12-20 to 2024-12-23
Date of Issue: 2024-12-24

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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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2024-12-24		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 Rechargeable Battery Battery Information Model: TB100-20254-48.23 Nominal Voltage: 48.23VDC Rated Capacity: 20254mAh
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For 2.4G SDR:	
Operation Frequency:	1.4MHz mode A: 2403.5MHz-2467.5MHz 1.4MHz mode B: 2405.12MHz-2469.12MHz 1.4MHz mode C: 2404.69MHz-2464.69MHz 1.4MHz mode D: 2406.31MHz-2466.31MHz 3MHz mode A: 2405.5MHz-2465.5MHz 3MHz mode B: 2408.2MHz-2468.2MHz 3MHz mode C: 2407.88MHz-2457.88MHz 3MHz mode D: 2411.12MHz-2461.12MHz 5MHz mode A: 2404.5MHz-2469.5MHz 5MHz mode C: 2405.26MHz-2462.26MHz 5MHz mode D: 2411.74MHz-2468.74MHz 10MHz mode A: 2407.5MHz-2467.5MHz 10MHz mode C: 2407.75MHz-2453.75MHz 10MHz mode D: 2421.25MHz-2467.25MHz 20MHz mode A: 2412.5MHz-2462.5MHz 20MHz mode C: 2413MHz-2435MHz 20MHz mode D: 2440MHz-2462MHz 40MHz: 2422.5MHz-2452.5MHz 60MHz: 2432.5MHz-2442.5MHz
Modulation Type:	OFDM
Channel Spacing:	1.4MHz mode A: 2MHz 1.4MHz mode B: 2MHz 1.4MHz mode C: 3MHz 1.4MHz mode D: 3MHz 3MHz mode A: 3MHz 3MHz mode B: 3MHz 3MHz mode C: 5MHz 3MHz mode D: 5MHz 5MHz mode A: 5MHz 5MHz mode C: 1MHz 5MHz mode D: 1MHz 10MHz mode A: 1MHz 10MHz mode C: 1MHz 10MHz mode D: 1MHz 20MHz mode A: 1MHz 20MHz mode C: 1MHz 20MHz mode D: 1MHz



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	40MHz: 1MHz 60MHz: 1MHz								
Number of Channels:	1.4MHz mode A: 33 1.4MHz mode B: 33 1.4MHz mode C: 21 1.4MHz mode D: 21 3MHz mode A: 21 3MHz mode B: 21 3MHz mode C: 11 3MHz mode D: 11 5MHz mode A: 14 5MHz mode C: 58 5MHz mode D: 58 10MHz mode A: 61 10MHz mode C: 47 10MHz mode D: 47 20MHz mode A: 51 20MHz mode C: 23 20MHz mode D: 23 40MHz: 31 60MHz: 11								
Antenna Type:	Dipole Antenna								
Antenna Gain:	ANT0	ANT1	ANT2	ANT3	ANT4	ANT5	ANT6	ANT7	
	-1dBi	-1dBi	1.5dBi	1.5dBi	1dBi	1.5dBi	1.5dBi	2.5dBi	



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For 5G SDR:	
Operation Frequency:	<p>5.1G SDR</p> <p>1.4MHz mode A: 5154MHz-5248MHz</p> <p>1.4MHz mode C: 5156.19MHz-5246.19MHz</p> <p>1.4MHz mode D: 5157.81MHz-5247.81MHz</p> <p>3MHz mode A: 5154MHz-5247MHz</p> <p>3MHz mode C: 5158.38MHz-5243.38MHz</p> <p>3MHz mode D: 5161.62MHz-5246.62MHz</p> <p>5MHz mode A: 5155MHz-5245MHz</p> <p>5MHz mode C: 5155.76MHz-5239.76MHz</p> <p>5MHz mode D: 5162.24MHz-5246.24MHz</p> <p>10MHz mode A: 5157MHz-5245MHz</p> <p>10MHz mode C: 5162MHz-5240MHz</p> <p>10MHz mode D: 5162MHz-5240MHz</p> <p>20MHz mode A: 5161MHz-5240MHz</p> <p>20MHz mode C: 5170MHz-5230MHz</p> <p>20MHz mode D: 5170MHz-5230MHz</p> <p>40MHz mode A: 5170MHz-5230MHz</p> <p>40MHz mode C: 5190MHz-5210MHz</p> <p>40MHz mode D: 5190MHz-5210MHz</p> <p>60MHz: 5180MHz-5220MHz</p> <p>80MHz: 5190MHz-5210MHz</p> <p>5.8G SDR</p> <p>1.4MHz mode A: 5728.5MHz-5844.5MHz</p> <p>1.4MHz mode B: 5730.12MHz-5846.12MHz</p> <p>1.4MHz mode C: 5729.69MHz-5840.69MHz</p> <p>1.4MHz mode D: 5731.31MHz-5842.31MHz</p> <p>3MHz mode A: 5727.5MHz-5844.5MHz</p> <p>3MHz mode B: 5730.2MHz-5847.2MHz</p> <p>3MHz mode C: 5730.88MHz-5840.88MHz</p> <p>3MHz mode D: 5734.12MHz-5844.12MHz</p> <p>5MHz mode A: 5732.5MHz-5842.5MHz</p> <p>5MHz mode C: 5733.26MHz-5835.26MHz</p> <p>5MHz mode D: 5739.74MHz-5841.74MHz</p> <p>10MHz mode A: 5730.5MHz-5844.5MHz</p> <p>10MHz mode C: 5730.75MHz-5830.75MHz</p> <p>10MHz mode D: 5744.25MHz-5844.25MHz</p>



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	20MHz mode A: 5735.5MHz-5839.5MHz 20MHz mode C: 5736MHz-5812MHz 20MHz mode D: 5763MHz-5839MHz 40MHz mode A: 5745.5MHz-5829.5MHz 40MHz mode C: 5745.5MHz-5775.5MHz 40MHz mode D: 5799.5MHz-5829.5MHz 60MHz: 5755.5MHz-5819.5MHz 80MHz: 5765.5MHz-5809.5MHz
Modulation Type:	OFDM
Channel Spacing:	5.1G SDR 1.4MHz mode A: 2MHz 1.4MHz mode C: 3MHz 1.4MHz mode D: 3MHz 3MHz mode A: 3MHz 3MHz mode C: 5MHz 3MHz mode D: 5MHz 5MHz mode A: 5MHz 5MHz mode C: 1MHz 5MHz mode D: 1MHz 10MHz mode A: 1MHz 10MHz mode C: 1MHz 10MHz mode D: 1MHz 20MHz mode A: 1MHz 20MHz mode C: 1MHz 20MHz mode D: 1MHz 40MHz mode A: 1MHz 40MHz mode C: 1MHz 40MHz mode D: 1MHz 60MHz: 1MHz 80MHz: 1MHz 5.8G SDR 1.4MHz mode A: 2MHz 1.4MHz mode B: 2MHz 1.4MHz mode C: 3MHz 1.4MHz mode D: 3MHz 3MHz mode A: 3MHz 3MHz mode B: 3MHz



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	3MHz mode C: 5MHz 3MHz mode D: 5MHz 5MHz mode A: 5MHz 5MHz mode C: 1MHz 5MHz mode D: 1MHz 10MHz mode A: 1MHz 10MHz mode C: 1MHz 10MHz mode D: 1MHz 20MHz mode A: 1MHz 20MHz mode C: 1MHz 20MHz mode D: 1MHz 40MHz mode A: 1MHz 40MHz mode C: 1MHz 40MHz mode D: 1MHz 60MHz: 1MHz 80MHz: 1MHz
Number of Channels:	5.1G SDR 1.4MHz mode A: 48 1.4MHz mode C: 31 1.4MHz mode D: 31 3MHz mode A: 32 3MHz mode C: 18 3MHz mode D: 18 5MHz mode A: 19 5MHz mode C: 85 5MHz mode D: 85 10MHz mode A: 89 10MHz mode C: 79 10MHz mode D: 79 20MHz mode A: 80 20MHz mode C: 61 20MHz mode D: 61 40MHz mode A: 61 40MHz mode C: 21 40MHz mode D: 21 60MHz: 41 80MHz: 21



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	5.8G SDR 1.4MHz mode A: 59 1.4MHz mode B: 59 1.4MHz mode C: 38 1.4MHz mode D: 38 3MHz mode A: 40 3MHz mode B: 40 3MHz mode C: 23 3MHz mode D: 23 5MHz mode A: 23 5MHz mode C: 103 5MHz mode D: 103 10MHz mode A: 115 10MHz mode C: 101 10MHz mode D: 101 20MHz mode A: 105 20MHz mode C: 77 20MHz mode D: 77 40MHz mode A: 85 40MHz mode C: 31 40MHz mode D: 31 60MHz: 65 80MHz: 45							
Antenna Type:	Dipole Antenna							
Antenna Gain (5.1G):	ANT0 1dBi	ANT1 1dBi	ANT2 2dBi	ANT3 2dBi	ANT4 2dBi	ANT5 2dBi	ANT6 2dBi	ANT7 3dBi
Antenna Gain (5.8G):	ANT0 2dBi	ANT1 2dBi	ANT2 2.5dBi	ANT3 2.5dBi	ANT4 3dBi	ANT5 2.5dBi	ANT6 2.5dBi	ANT7 2.5dBi



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Operation Frequency:	1.4MHz mode A: 902.8MHz-927.2MHz 1.4MHz mode C: 902.99MHz-925.39MHz 1.4MHz mode D: 904.61MHz-927.01MHz 3MHz mode A: 903.6MHz-926.4MHz 3MHz mode C: 903.78MHz-922.98MHz 3MHz mode D: 907.02MHz-926.22MHz 5MHz mode A: 904.6MHz-925.4MHz 5MHz mode C: 904.76MHz-918.76MHz 5MHz mode D: 911.24MHz-925.24MHz 10MHz mode A: 907MHz-923MHz 10MHz mode C: 907.05MHz-909.45MHz 10MHz mode D: 920.55MHz-922.95MHz 20MHz mode A: 912MHz-918MHz
Modulation Type:	OFDM
Channel Spacing:	1.4MHz mode A: 0.2MHz 1.4MHz mode C: 0.2MHz 1.4MHz mode D: 0.2MHz 3MHz mode A: 0.2MHz 3MHz mode C: 0.2MHz 3MHz mode D: 0.2MHz 5MHz mode A: 0.2MHz 5MHz mode C: 0.2MHz 5MHz mode D: 0.2MHz 10MHz mode A: 0.2MHz 10MHz mode C: 0.2MHz 10MHz mode D: 0.2MHz 20MHz mode A: 0.2MHz
Number of Channels:	1.4MHz mode A: 123 1.4MHz mode C: 113 1.4MHz mode D: 113 3MHz mode A: 115 3MHz mode C: 97 3MHz mode D: 97 5MHz mode A: 105 5MHz mode C: 71 5MHz mode D: 71 10MHz mode A: 81



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	10MHz mode C: 13 10MHz mode D: 13 20MHz mode A: 31
Antenna Type:	Dipole Antenna
Antenna Gain:	ANT0: 0.5dBi, ANT1:0.5dBi



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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:

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.

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
902-928MHz	30	0.1990	0.601	0.331	Pass
2.4G Wi-Fi	33	0.3971	1.000	0.397	Pass
2.4G SDR	33	0.397	1.000	0.397	Pass
5G SDR	33	0.397	1.000	0.397	Pass

Note1: The maximum EIRP is refer to the user manual

Simultaneous transmission

Test Mode	902-928MHz	2.4G Wi-Fi	2.4G SDR	5.1G SDR	5.8G SDR	Total Ratio	Limit	Verdict
Maximum Ratio	0.331	0.397	0.397	0.025	0.397	N/A	N/A	N/A
Scenario 1	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		0.356	1.0	Pass
Scenario 2	<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>	0.728	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 -