

TEST REPORT

Applicant: SZ DJI TECHNOLOGY CO., LTD.
Address: Lobby of T2, DJI Sky City, No. 53 Xianyuan Road,
Xili Community, Xili Street, Nanshan District,
518055 Shenzhen, China
Equipment Type: DJI Lito 1
Model Name: DGN12C, DGN12D (refer to section 2.3)
Brand Name: DJI
FCC ID: SS3-DGN12
Test Standard: 47 CFR Part 2.1091
KDB 447498 D04 v01
Sample Arrival Date: Nov. 06, 2025
Test Date: Dec. 05, 2025
Date of Issue: Dec. 08, 2025

ISSUED BY:

Shenzhen BALUN Technology Co., Ltd.

**Tested by:** Xiong Lining**Checked by:** Xu Rui**Approved by:** Tolan Tu
(Testing Director)

Revision History

<u>Version</u>	<u>Issue Date</u>	<u>Revisions Content</u>
<u>Rev. 01</u>	<u>Dec. 08, 2025</u>	<u>Initial Issue</u>

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1 GENERAL INFORMATION

1.1 Test Laboratory

Name	Shenzhen BALUN Technology Co., Ltd.
Contact Address	1/F, Building B, Ganghongji High-tech Intelligent Industrial Park, No. 1008, Songbai Road, Yangguang Community, Xili Sub-district, Nanshan District, Shenzhen, Guangdong Province, P. R. China
Phone Number	+86 755 6685 0100

1.1 Test Location

Name	Shenzhen BALUN Technology Co., Ltd.
Location	☐ Block B, 1/F, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China
	☒ 1/F, Building B, Ganghongji High-tech Intelligent Industrial Park, No. 1008, Songbai Road, Yangguang Community, Xili Sub-district, Nanshan District, Shenzhen, Guangdong Province, P. R. China
	☐ Building 2, Intelligent Connected Vehicle Industrial Park, No. 55, Xiangshan Road, Luotian Community, Yanluo Sub-district, Bao'an District, Shenzhen
Accreditation Certificate	The laboratory is a testing organization accredited by FCC as a accredited testing laboratory. The designation number is CN1196.

2 PRODUCT INFORMATION

2.1 Applicant Information

Applicant	SZ DJI TECHNOLOGY CO., LTD.
Address	Lobby of T2, DJI Sky City, No. 53 Xianyuan Road, Xili Community, Xili Street, Nanshan District, 518055 Shenzhen, China

2.2 Manufacturer Information

Manufacturer	SZ DJI TECHNOLOGY CO., LTD.
Address	Lobby of T2, DJI Sky City, No. 53 Xianyuan Road, Xili Community, Xili Street, Nanshan District, 518055 Shenzhen, China

2.3 General Description for Equipment under Test (EUT)

EUT Name	DJI Lito 1
Model Name Under Test	DGN12C
Series Model Name	DGN12D
Description of Model name differentiation	Only differences are model name for trading purpose. (this information provided by the applicant)
Hardware Version	1.0
Software Version	V00.00.0001
Dimensions (Approx.)	N/A
Weight (Approx.)	N/A

2.4 Technical Information

Network and Wireless connectivity	Bluetooth (BLE) WIFI 802.11a, 802.11b, 802.11g, 802.11n, 802.11ac and 802.11ax 2.4G SDR, 5.2G SDR, 5.8G SDR, GPS, Galileo, BDS
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The requirement for the following technical information of the EUT was tested in this report:

Operating Mode	WLAN; Bluetooth; SDR	
Frequency Range	802.11b/g	2400 ~ 2483.5 MHz
	802.11n(HT20/HT40)	2400 ~ 2483.5 MHz
	802.11ax(HE20/HE40)	2400 ~ 2483.5 MHz
	802.11a	5725 ~ 5850 MHz
	802.11n(HT20/HT40)	5725 ~ 5850 MHz
	802.11ac(VHT20/VHT40/VHT80)	5725 ~ 5850 MHz
	802.11ax(HE20/HE40/HE80)	5725 ~ 5850 MHz
	2.4G SDR (10MHz/20MHz/40MHz/60MHz)	2400 ~ 2483.5 MHz
	5.2G SDR (10MHz/20MHz/40MHz/60MHz/ 80MHz)	5150 ~ 5250 MHz
	5.8G SDR (10MHz/20MHz/40MHz/60MHz/ 80MHz)	5725 ~ 5850 MHz
	Bluetooth	2400 ~ 2483.5 MHz
Antenna Type	WLAN	Dipole Antenna
	SDR	Dipole Antenna
	Bluetooth	Dipole Antenna
Exposure Category	General Population/Uncontrolled Exposure	
EUT Type	Mobile Device	

3 SUMMARY OF TEST RESULT

3.1 Test Standards

No.	Identity	Document Title
1	47 CFR Part 2.1091	Radiofrequency radiation exposure evaluation: mobile devices
2	KDB 447498 D04 v01	447498 D04 Interim General RF Exposure Guidance v01

4 DEVICE CATEGORY AND LEVELS LIMITS

Mobile Devices:

CFR Title 47 §2.1091(b)

For purposes of this section, a mobile device is defined as a transmitting device designed to be used in other than fixed locations and to generally be used in such a way that a separation distance of at least 20 centimeters is normally maintained between the transmitter's radiating structure(s) and the body of the user or nearby persons.

FCC KDB 447498 D04 General RF Exposure Guidance v01 Limit

Evaluation of compliance with the exposure limits in § 1.1310 is necessary if the ERP of the device is greater than ERP_{20cm} in Formula (B.1) [repeated from § 2.1091(c)(1) and § 1.1307(b)(1)(i)(B)].

$$P_{th} \text{ (mW)} = ERP_{20 \text{ cm}} \text{ (mW)} = \begin{cases} 2040f & 0.3 \text{ GHz} \leq f < 1.5 \text{ GHz} \\ 3060 & 1.5 \text{ GHz} \leq f \leq 6 \text{ GHz} \end{cases} \quad (\text{B.1})$$

If the ERP is not easily obtained, then the available maximum time-averaged power may be used (i. e., without consideration of ERP only if the physical dimensions of the radiating structure(s) do not exceed the electrical length of $\lambda/4$ or if the antenna gain is less than that of a half-wave dipole.

SAR-based exemptions are constant at separation distances between 20 cm and 40 cm to avoid discontinuities in the threshold when transitioning between SAR-based and MPE-based exemption criteria at 40 cm, considering the importance of reflections.

The SAR-based exemption formula of § 1.1307(b)(3)(i)(B), repeated here as Formula (B.2), applies for single fixed, mobile, and portable RF sources with available maximum time-averaged power or effective radiated power (ERP), whichever is greater, of less than or equal to the threshold P_{th} (mW).

This method shall only be used at separation distances from 0.5 cm to 40 cm and at frequencies from 0.3 GHz to 6 GHz (inclusive). P_{th} is given by Formula (B.2).

$$P_{th} \text{ (mW)} = \begin{cases} ERP_{20 \text{ cm}} (d/20 \text{ cm})^x & d \leq 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \leq 40 \text{ cm} \end{cases} \quad (\text{B. 2})$$

where

$$x = -\log_{10} \left(\frac{60}{ERP_{20 \text{ cm}} \sqrt{f}} \right)$$

and f is in GHz, d is the separation distance (cm), and $ERP_{20 \text{ cm}}$ is per Formula (B.1).
The example values shown in Table B.2 are for illustration only.

Table B.2—Example Power Thresholds (mW)

Table B-2 Example Power Thresholds (mW)											
Frequency (MHz)	Distance (mm)										
	5	10	15	20	25	30	35	40	45	50	
	300	39	65	88	110	129	148	166	184	201	217
	450	22	44	67	89	112	135	158	180	203	226
	835	9	25	44	66	90	116	145	175	207	240
	1900	3	12	26	44	66	92	122	157	195	236
	2450	3	10	22	38	59	83	111	143	179	219
	3600	2	8	18	32	49	71	96	125	158	195
	5800	1	6	14	25	40	58	80	106	136	169

5 ASSESSMENT RESULT

5.1 Output Power

Mode	Bluetooth	2.4G WIFI	5.8G WIFI
Conducted Power (dBm)	5.04	15.18	18.42
Antenna Gain (dBi)	1.00	1.00	1.50
EIRP (dBm)	6.04	16.18	19.92

Note: This report listed the worst case conducted power value, please refer to BL-SZ25B0217-601&BL-SZ25B0217-602&BL-SZ25B0217-603 report for more details.

Mode	2.4G SDR-ANT0	5.2G SDR-ANT0	5.8G SDR-ANT0
Conducted Power (dBm)	25.31	18.90	27.02
Antenna Gain (dBi)	1.00	1.00	1.50
EIRP (dBm)	26.31	19.90	28.52
Mode	2.4G SDR-ANT1	5.2G SDR-ANT1	5.8G SDR-ANT1
Conducted Power (dBm)	25.91	19.49	27.00
Antenna Gain (dBi)	1.00	1.00	1.50
EIRP (dBm)	26.91	20.49	28.50

Note: This report listed the worst case conducted power value, please refer to BL-SZ25B0217-604&BL-SZ25B0217-605 report for more details.

5.2 Tune-up power

Mode	Conducted Power Range (dBm)	EIRP Range (dBm)	ERP Range (dBm)
Bluetooth	[4.00, 6.00]	[5.00, 7.00]	[2.85, 4.85]
2.4G WIFI	[13.00, 16.00]	[15.00, 17.00]	[12.85, 14.85]
5.8G WIFI	[17.00, 19.00]	[18.50, 20.50]	[16.35, 18.35]
2.4G SDR-ANT0	[23.00, 26.00]	[25.00, 27.00]	[22.85, 24.85]
5.2G SDR-ANT0	[17.00, 19.00]	[18.00, 20.00]	[15.85, 17.85]
5.8G SDR-ANT0	[26.00, 28.00]	[27.50, 29.50]	[25.35, 27.35]
2.4G SDR-ANT1	[23.00, 26.00]	[25.00, 27.00]	[22.85, 24.85]
5.2G SDR-ANT1	[18.00, 20.00]	[19.00, 21.00]	[16.85, 18.85]
5.8G SDR-ANT1	[26.00, 28.00]	[27.50, 29.50]	[25.35, 27.35]

Note 1: ERP= EIRP -2.15dB.
Note 2: According KDB 447498 D04, used the greater of maximum conducted power and ERP to compare with the threshold value Pth.

5.3 RF Exposure Evaluation Result

Evolution Mode	Maximum power (dBm)	Maximum power (mW)	Distance (mm)	Threshold Power (mW)	Power / Limit	Verdict
Bluetooth	6.00	3.98	200	3060.00	0.001	Pass
2.4G WIFI	16.00	39.81	200	3060.00	0.013	Pass
5.8G WIFI	19.00	79.43	200	3060.00	0.026	Pass
2.4G SDR-ANT0	26.00	398.11	200	3060.00	0.130	Pass
5.2G SDR-ANT0	19.00	79.43	200	3060.00	0.026	Pass
5.8G SDR-ANT0	28.00	630.96	200	3060.00	0.206	Pass
2.4G SDR-ANT1	26.00	398.11	200	3060.00	0.130	Pass
5.2G SDR-ANT1	20.00	100.00	200	3060.00	0.033	Pass
5.8G SDR-ANT1	28.00	630.96	200	3060.00	0.206	Pass

5.4 Collocated Power Calculation

Evolution Mode	Power /Limit	Σ (Power / Limit) of 2.4G WIFI + 5G SDR	Verdict
2.4G WIFI	0.013	0.219	Pass
Max. 5G SDR	0.206		
Evolution Mode	Power /Limit	Σ (Power / Limit) of 5G WIFI + 2.4G SDR	Verdict
5G WIFI	0.026	0.156	Pass
Max. 2.4G SDR	0.130		
Evolution Mode	Power /Limit	Σ (Power / Limit) of Bluetooth + 5G SDR	Verdict
Bluetooth	0.001	0.207	Pass
Max. 5G SDR	0.206		

Note:

1. Σ (Power / Limit): This is a summation of [(power for each transmitter/ antenna included in the simultaneous transmission)/ (corresponding Power limit)], for 2.4G WIFI + 5G SDR, 5G WIFI + 2.4G SDR, Bluetooth + 5G SDR.
2. Both of the 2.4GHz/5.8GHz can transmit simultaneously, the formula of calculated the Power is $CP1 / LP1 + CP2 / LP2 + \dots \text{etc.} < 1$
 CP = Calculation power
 LP = Limit of power
3. The worst-case situation is 0.219, which is less than "1". This confirmed that the device comply with FCC KDB 447498 D04 Power limit.
4. The DUT work frequency range used is 2400 MHz ~ 2483.5 MHz and 5725 MHz ~ 5850 MHz the result close to the limit by the above formula, so we select worst case power to calculate the exclusion power threshold.

5.5 Conclusion

This EUT is deemed to comply with the reference level limits, therefore the basic restrictions are compliant with human exposure limits.

Statement

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--END OF REPORT--