

Prüfbericht-Nr.: <i>Test report no.:</i>	CN22WMZD 007	Auftrags-Nr.: <i>Order no.:</i>	168459266	Seite 1 von 19 Page 1 of 19
Kunden-Referenz-Nr.: <i>Client reference no.:</i>	N/A	Auftragsdatum: <i>Order date:</i>	2024-01-02	
Auftraggeber: <i>Client:</i>	SZ DJI TECHNOLOGY CO., LTD. Lobby of T2, DJI Sky City, No. 53 Xianyuan Road, Xili Community, Xili Street, Nanshan District, Shenzhen, China			
Prüfgegenstand: <i>Test item:</i>	DJI Mini 2 SE			
Bezeichnung / Typ-Nr.: <i>Identification / Type no.:</i>	MT2SD (Trademark: DJI)			
Auftrags-Inhalt: <i>Order content:</i>	Test Report			
Prüfgrundlage: <i>Test specification:</i>	CFR47 FCC Part 15: Subpart E Section 15.407 CFR47 FCC Part 15: Subpart C Section 15.209			
Wareneingangsdatum: <i>Date of sample receipt:</i>	2024-01-03	Please refer to Photo Document		
Prüfmuster-Nr.: <i>Test sample no.:</i>	A003634191-006~008			
Prüfzeitraum: <i>Testing period:</i>	2024-01-08 - 2024-01-24			
Ort der Prüfung: <i>Place of testing:</i>	TÜV Rheinland (Shenzhen) Co., Ltd.			
Prüflaboratorium: <i>Testing laboratory:</i>	TÜV Rheinland (Shenzhen) Co., Ltd.			
Prüfergebnis*: <i>Test result*:</i>	Pass			
geprüft von: <i>tested by:</i>			genehmigt von: <i>authorized by:</i>	
Datum: <i>Date:</i>	2024-03-06	Ausstellungsdatum: <i>Issue date:</i>		2024-03-06
	Signed by: Bell Hu			Signed by: Jonathan Li
Stellung / Position:	Sachverständige(r)/Expert		Stellung / Position:	Sachverständige(r)/Expert
Sonstiges / <i>Other:</i>	Based on original report CN22WMZD 003 for the changes listed on section 3.1, applying for Class 2 permissive change. FCC ID: SS3-MT2SD22 This report is for 5.8GHz SDR.			
Zustand des Prüfgegenstandes bei Anlieferung: <i>Condition of the test item at delivery:</i>		Prüfmuster vollständig und unbeschädigt <i>Test item complete and undamaged</i>		
* Legende:	P(ass) = entspricht o.g. Prüfgrundlage(n)	F(ail) = entspricht nicht o.g. Prüfgrundlage(n)	N/A = nicht anwendbar	N/T = nicht getestet
* Legend:	P(ass) = passed a.m. test specification(s)	F(ail) = failed a.m. test specification(s)	N/A = not applicable	N/T = not tested
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Anmerkungen
Remarks

1	Alle eingesetzten Prüfmittel waren zum angegebenen Prüfzeitraum gemäß eines festgelegten Kalibrierungsprogramms unseres Prüfhauses kalibriert. Sie entsprechen den in den Prüfprogrammen hinterlegten Anforderungen. Die Rückverfolgbarkeit der eingesetzten Prüfmittel ist durch die Einhaltung der Regelungen unseres Managementsystems gegeben. Detaillierte Informationen bezüglich Prüfkonditionen, Prüfequipment und Messunsicherheiten sind im Prüflabor vorhanden und können auf Wunsch bereitgestellt werden. <i>The equipment used during the specified testing period was calibrated according to our test laboratory calibration program. The equipment fulfils the requirements included in the relevant standards. The traceability of the test equipment used is ensured by compliance with the regulations of our management system. Detailed information regarding test conditions, equipment and measurement uncertainty is available in the test laboratory and could be provided on request.</i>
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3	Prüfklausel mit der Note * wurden an qualifizierte Unterauftragnehmer vergeben und sind unter der jeweiligen Prüfklausel des Berichts beschrieben. Abweichungen von Prüfspezifikation(en) oder Kundenanforderungen sind in der jeweiligen Prüfklausel im Bericht aufgeführt. <i>Test clauses with remark of * are subcontracted to qualified subcontractors and described under the respective test clause in the report.</i> <i>Deviations of testing specification(s) or customer requirements are listed in specific test clause in the report.</i>
4	Die Entscheidungsregel für Konformitätserklärungen basierend auf numerischen Messergebnissen in diesem Prüfbericht basiert auf der "Null-Grenzwert-Regel" und der "Einfachen Akzeptanz" gemäß ILAC G8:2019 und IEC Guide 115:2021, es sei denn, in der auf Seite 1 dieses Berichts genannten angewandten Norm ist etwas anderes festgelegt oder vom Kunden gewünscht. Dies bedeutet, dass die Messunsicherheit nicht berücksichtigt wird und daher auch nicht im Prüfbericht angegeben wird. Zu weiteren Informationen bezüglich des Risikos durch diese Entscheidungsregel siehe ILAC G8:2019. <i>The decision rule for statements of conformity, based on numerical measurement results, in this test report is based on the "Zero Guard Band Rule" and "Simple Acceptance" in accordance with ILAC G8:2019 and IEC Guide 115:2021, unless otherwise specified in the applied standard mentioned on Page 1 of this report or requested by the customer. This means that measurement uncertainty is not taken in account and hence also not declared in the test report. For additional information to the resulting risk based of this decision rule please refer to ILAC G8:2019.</i>

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TEST SUMMARY

5.1.1 MAXIMUM OUTPUT POWER

RESULT: Pass

5.1.2 RADIATED SPURIOUS EMISSION

RESULT: Pass

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1. General Remarks

1.1 Complementary Materials

All attachments are integral parts of this test report. This applies especially to the following appendix:

Appendix A: Test Results of 5.8GHz SDR

Appendix B: Photographs of the Test Set-up

2. Test Sites

2.1 Test Facilities

TÜV Rheinland (Shenzhen) Co., Ltd.

362 Huanguan Road Middle Longhua District, Shenzhen 518110 People's Republic of China

FCC Registration No.: 694916

ISED Wireless Device Testing Laboratory: 25069

2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

Radio Spectrum Testing (SRD-Tonscend)					
Equipment	Manufacturer	Model	Serial No.	Cal. Date	Cal. until
EXA Signal Analyzer, Multi-touch	Keysight	N9010B	MY60241175	2023-09-22	2024-09-21
MXG X-Series RF Vector Signal Generator	Keysight	N5182B	MY61250137	2023-09-22	2024-09-21
EXG X-Series Microwave Analog Signal Generator	Keysight	N5173B	MY61250141	2023-09-22	2024-09-21
DC power supply	Keysight	E3642A	MY61276100	2023-09-22	2024-09-21
Power Control Unit	Tonscend	JS0806-4ADC	N/A	2023-09-22	2024-09-21
Automation Control Unit	Tonscend	JS0806-2	21C8060396	2023-09-22	2024-09-21
Test Software	Tonscend	JS1120-3	N/A	N/A	N/A
Control PC	Lenovo	TianYi510S-071MB	YLX23JMF	N/A	N/A
Shielding Room 8#	Albatross	SR8	APC17151-SR8	2021-06-22	2024-06-22
Unwanted Emission Testing (TS9975)					
Equipment	Manufacturer	Model	Serial No.	Cal. Date	Cal. until
EMI Test Receiver	R&S	ESR 7	102021	2023-07-26	2024-07-25
Signal Analyzer	R&S	FSV 40	101439	2023-07-26	2024-07-25
System Controller Interface	R&S	SCI-100	S10010038	N/A	N/A
Filterbank	R&S	Wlan	100759	2023-07-26	2024-07-25
OSP	R&S	OSP 120	102040	N/A	N/A
Pre-amplifier	R&S	SCU08F1	08320031	2023-07-26	2024-07-25
Amplifier	R&S	SCU-18F	180070	2023-07-26	2024-07-25
Amplifier	R&S	SCU40A	100475	2023-07-26	2024-07-25
Trilog Broadband Antenna (30 MHz - 7 GHz)	Schwarzbeck	VULB 9162	193	2022-08-07	2024-08-06
Double-Ridged Antenna (1 - 18 GHz)	ETS-LINDGREN	3117	00218717	2022-08-07	2024-08-06
Wideband Ridged Horn Antenna (18-40 GHz)	Steatite	QMS-00880	19067	2022-08-28	2024-08-27

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Active Loop Antenna	Schwarzbeck	FMZB 1513	302	2022-08-07	2024-08-06
Test software	R&S	EMC32 (V10.60.10)	N/A	N/A	N/A
Control PC	Dell	OptiPlex 7050	36NV9P2	N/A	N/A
3m Semi-Anechoic Chamber	Albatross	SAC-3m	APC17151-SAC	2021-06-22	2024-06-22

2.3 Traceability

All measurement equipment calibrations are traceable to NIM (National Institute of Metrology) or where calibration is performed in other countries, to equivalent nationally recognized standards organizations.

2.4 Calibration

Equipment requiring calibration is calibrated periodically by the manufacturer or according to manufacturer's specifications. Additionally all equipment is verified for proper performance on a regular basis using in house standards or comparisons.

2.5 Uncertainty of Measurement

The value of the measurement uncertainty of each parameter is listed as below:

Table 2: Measurement Uncertainty

Parameter	Uncertainty
Radio Frequency	$\pm 1 \times 10^{-7}$
RF Power (conducted)	± 2.5 dB
Radiated Emission of Transmitter, valid up to 26.5 GHz	± 6 dB
Radiated Emission of Receiver, valid up to 26.5 GHz	± 6 dB
Temperature	± 1 °C
Humidity	± 5 %
Voltage (DC)	± 1 %
Voltage (AC, <10kHz)	± 2 %

2.6 Location of Original Data

The original copies of all test data taken during actual testing were attached at Appendix A & B of this report and delivered to the applicant. A copy has been retained in the TÜV Rheinland (Shenzhen) Co., Ltd. file for certification follow-up purposes.

2.7 Status of Facility Used for Testing

The TÜV Rheinland (Shenzhen) Co., Ltd. Test facility located at No. 362 Huanguan Road Middle, Longhua District, Shenzhen 518110, People's Republic of China is listed on the US Federal Communications Commission list of facilities approved to perform measurements.

3. General Product Information

3.1 Product Function and Intended Use

The EUT (Equipment Under Test) is a DJI Mini 2 SE. It supports 2.4GHz SDR, 5.8GHz SDR and GNSS functions.

*remark: SDR means specific defined radio, and cannot changes radio specification via software/firmware by end-users.

For details refer to the User Manual, Technical Description and Circuit Diagram.

This report is based on original report CN22WMZD 003 for the changes listed below, applying for Class 2 permissive change.

1. Add an alternative camera chip H22A55. (Comparing to the original camera chip H22A35, the alternative H22A55 chip has 4k function, which not supported by H22A35)
2. The 2.4GHz FEM (Front-End Modules) chip QPF4206 changed to KCT8247HE-1, and the 5.8GHz FEM chip QPF4550 changed to KCT8576N. The original and current FEM chips are pin to pin changed, with the same basic functions and same radio parameters.

Based on changes above, Power and RSE re-evaluated in this report.

3.2 Ratings and System Details

Table 3: Technical Specification

General Information of EUT	Value
Kind of Equipment	DJI Mini 2 SE
Type Designation	MT2SD
Operating Voltage	AC 100-240V, 50/60Hz input via AC/DC adapter or Battery operated (Max 7.7V, 2250 mAh)
Testing Voltage	Full battery (DC 7.7V)
FCC ID	SS3-MT2SD22
Extreme Temperature Range	0°C ~ 40 °C
Radiofrequency operating mode	1) 2.4GHz SDR: operating within 2400-2483.5MHz, supports 1.4MHz/3MHz/10MHz/20MHz Bandwidth 2) 5.8GHz SDR: operating within 5725-5850MHz, supports 1.4MHz/3MHz/10MHz/20MHz Bandwidth 3) GNSS (receiver): 1559-1610MHz
Technical Specification of 5.8GHz SDR	
Operating Frequency	5728.5-5844.5MHz for 1.4MHz Bandwidth 5730.12-5846.12MHz for 1.4MHz Bandwidth (CA mode) 5730.5-5844.5MHz for 3MHz Bandwidth 5732.5-5844.5MHz for 10MHz Bandwidth 5735.5-5839.5MHz for 20MHz Bandwidth
Type of Modulation	OFDM (QPSK, 16QAM, 64QAM)
Channel Number	59 channels for 1.4MHz Bandwidth 59 channels for 1.4MHz Bandwidth (CA mode) 39 channels for 3MHz Bandwidth 113 channels for 10MHz Bandwidth 105 channels for 20MHz Bandwidth

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Channel Separation	2MHz for 1.4MHz Bandwidth 2MHz for 1.4MHz Bandwidth (CA mode) 3MHz for 3MHz Bandwidth 1MHz for 10MHz Bandwidth 1MHz for 20MHz Bandwidth
Antenna Type	Integral Antenna
Antenna Number	2 Integral Antennas, only 1TX2RX mode supported.
Antenna Gain	3.5dBi Max
The type of wideband data transmission equipment	NII

Table 4: RF Channel and Frequency of 5.8GHz SDR

5.8GHz 1.4MHzBandwidth (5728.5MHz-5844.5MHz)					
RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)
1	5728.5	21	5768.5	41	5808.5
2	5730.5	22	5770.5	42	5810.5
3	5732.5	23	5772.5	43	5812.5
4	5734.5	24	5774.5	44	5814.5
5	5736.5	25	5776.5	45	5816.5
6	5738.5	26	5778.5	46	5818.5
7	5740.5	27	5780.5	47	5820.5
8	5742.5	28	5782.5	48	5822.5
9	5744.5	29	5784.5	49	5824.5
10	5746.5	30	5786.5	50	5826.5
11	5748.5	31	5788.5	51	5828.5
12	5750.5	32	5790.5	52	5830.5
13	5752.5	33	5792.5	53	5832.5
14	5754.5	34	5794.5	54	5834.5
15	5756.5	35	5796.5	55	5836.5
16	5758.5	36	5798.5	56	5838.5
17	5760.5	37	5800.5	57	5840.5
18	5762.5	38	5802.5	58	5842.5
19	5764.5	39	5804.5	59	5844.5
20	5766.5	40	5806.5		

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5.8GHz 1.4MHz Bandwidth (CA Mode) (5730.12MHz-5846.12MHz)					
RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)
1	5730.12	21	5770.12	41	5810.12
2	5732.12	22	5772.12	42	5812.12
3	5734.12	23	5774.12	43	5814.12
4	5736.12	24	5776.12	44	5816.12
5	5738.12	25	5778.12	45	5818.12
6	5740.12	26	5780.12	46	5820.12
7	5742.12	27	5782.12	47	5822.12
8	5744.12	28	5784.12	48	5824.12
9	5746.12	29	5786.12	49	5826.12
10	5748.12	30	5788.12	50	5828.12
11	5750.12	31	5790.12	51	5830.12
12	5752.12	32	5792.12	52	5832.12
13	5754.12	33	5794.12	53	5834.12
14	5756.12	34	5796.12	54	5836.12
15	5758.12	35	5798.12	55	5838.12
16	5760.12	36	5800.12	56	5840.12
17	5762.12	37	5802.12	57	5842.12
18	5764.12	38	5804.12	58	5844.12
19	5766.12	39	5806.12	59	5846.12
20	5768.12	40	5808.12		

5.8GHz 3MHz Bandwidth (5730.5MHz-5844.5MHz)					
RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)
1	5730.5	14	5769.5	27	5808.5
2	5733.5	15	5772.5	28	5811.5
3	5736.5	16	5775.5	29	5814.5
4	5739.5	17	5778.5	30	5817.5
5	5742.5	18	5781.5	31	5820.5
6	5745.5	19	5784.5	32	5823.5
7	5748.5	20	5787.5	33	5826.5
8	5751.5	21	5790.5	34	5829.5
9	5754.5	22	5793.5	35	5832.5
10	5757.5	23	5796.5	36	5835.5
11	5760.5	24	5799.5	37	5838.5
12	5763.5	25	5802.5	38	5841.5
13	5766.5	26	5805.5	39	5844.5

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5.8GHz 10MHzBandwidth (5732.5MHz-5844.5MHz)					
RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)
1	5732.5	39	5770.5	77	5808.5
2	5733.5	40	5771.5	78	5809.5
3	5734.5	41	5772.5	79	5810.5
4	5735.5	42	5773.5	80	5811.5
5	5736.5	43	5774.5	81	5812.5
6	5737.5	44	5775.5	82	5813.5
7	5738.5	45	5776.5	83	5814.5
8	5739.5	46	5777.5	84	5815.5
9	5740.5	47	5778.5	85	5816.5
10	5741.5	48	5779.5	86	5817.5
11	5742.5	49	5780.5	87	5818.5
12	5743.5	50	5781.5	88	5819.5
13	5744.5	51	5782.5	89	5820.5
14	5745.5	52	5783.5	90	5821.5
15	5746.5	53	5784.5	91	5822.5
16	5747.5	54	5785.5	92	5823.5
17	5748.5	55	5786.5	93	5824.5
18	5749.5	56	5787.5	94	5825.5
19	5750.5	57	5788.5	95	5826.5
20	5751.5	58	5789.5	96	5827.5
21	5752.5	59	5790.5	97	5828.5
22	5753.5	60	5791.5	98	5829.5
23	5754.5	61	5792.5	99	5830.5
24	5755.5	62	5793.5	100	5831.5
25	5756.5	63	5794.5	101	5832.5
26	5757.5	64	5795.5	102	5833.5
27	5758.5	65	5796.5	103	5834.5
28	5759.5	66	5797.5	104	5835.5
29	5760.5	67	5798.5	105	5836.5
30	5761.5	68	5799.5	106	5837.5
31	5762.5	69	5800.5	107	5838.5
32	5763.5	70	5801.5	108	5839.5
33	5764.5	71	5802.5	109	5840.5
34	5765.5	72	5803.5	110	5841.5
35	5766.5	73	5804.5	111	5842.5
36	5767.5	74	5805.5	112	5843.5
37	5768.5	75	5806.5	113	5844.5
38	5769.5	76	5807.5		

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5.8GHz 20MHz Bandwidth (5735.5MHz-5839.5MHz)					
RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)
1	5735.5	36	5770.5	71	5805.5
2	5736.5	37	5771.5	72	5806.5
3	5737.5	38	5772.5	73	5807.5
4	5738.5	39	5773.5	74	5808.5
5	5739.5	40	5774.5	75	5809.5
6	5740.5	41	5775.5	76	5810.5
7	5741.5	42	5776.5	77	5811.5
8	5742.5	43	5777.5	78	5812.5
9	5743.5	44	5778.5	79	5813.5
10	5744.5	45	5779.5	80	5814.5
11	5745.5	46	5780.5	81	5815.5
12	5746.5	47	5781.5	82	5816.5
13	5747.5	48	5782.5	83	5817.5
14	5748.5	49	5783.5	84	5818.5
15	5749.5	50	5784.5	85	5819.5
16	5750.5	51	5785.5	86	5820.5
17	5751.5	52	5786.5	87	5821.5
18	5752.5	53	5787.5	88	5822.5
19	5753.5	54	5788.5	89	5823.5
20	5754.5	55	5789.5	90	5824.5
21	5755.5	56	5790.5	91	5825.5
22	5756.5	57	5791.5	92	5826.5
23	5757.5	58	5792.5	93	5827.5
24	5758.5	59	5793.5	94	5828.5
25	5759.5	60	5794.5	95	5829.5
26	5760.5	61	5795.5	96	5830.5
27	5761.5	62	5796.5	97	5831.5
28	5762.5	63	5797.5	98	5832.5
29	5763.5	64	5798.5	99	5833.5
30	5764.5	65	5799.5	100	5834.5
31	5765.5	66	5800.5	101	5835.5
32	5766.5	67	5801.5	102	5836.5
33	5767.5	68	5802.5	103	5837.5
34	5768.5	69	5803.5	104	5838.5
35	5769.5	70	5804.5	105	5839.5

3.3 Independent Operation Modes

The basic operation modes are:

- A. On, 5.8GHz SDR wireless transmitting mode
 - 1) Low Channel
 - 2) Middle Channel
 - 3) High Channel
- B. On, Normal Operation
- C. Off

3.4 Noise Generating and Noise Suppressing Parts

Refer to the Circuit Diagram.

3.5 Submitted Documents

- Application Form
- User Manual

4. Test Set-up and Operation Modes

4.1 Principle of Configuration Selection

Radio Spectrum: The equipment under test (EUT) was configured at its highest power output in order to measure its highest possible radiation and conducted level. The test modes were adapted accordingly in reference to the instructions for use.

Emission: The equipment under test (EUT) was configured to measure its highest possible radiation level. The test modes were adapted accordingly in reference to the instructions for use.

4.2 Test Operation

Test operation refers to test setup in chapter 5. All tests were performed according to the procedures in ANSI C63.10: 2013.

According to clause 3.1, all tests were performed on model MT2SD in this report.

4.3 Special Accessories and Auxiliary Equipment

Table 5: List of Accessories and Auxiliary Equipment

Description	Manufacturer	Model	S/N
Laptop	Lenovo	T480	PF-16A6N8

4.4 Countermeasures to Achieve ERM Compliance

The test sample which has been tested contained the noise suppression parts as described in the Technical Construction File (TCF). No additional measures were employed to achieve compliance.

4.5 Test Setup Diagram

Diagram of Measurement Configuration for Radiation Test (Below 1GHz)

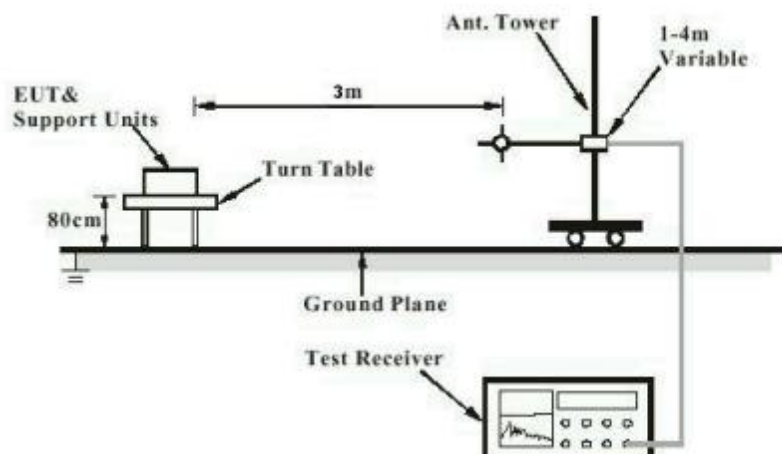
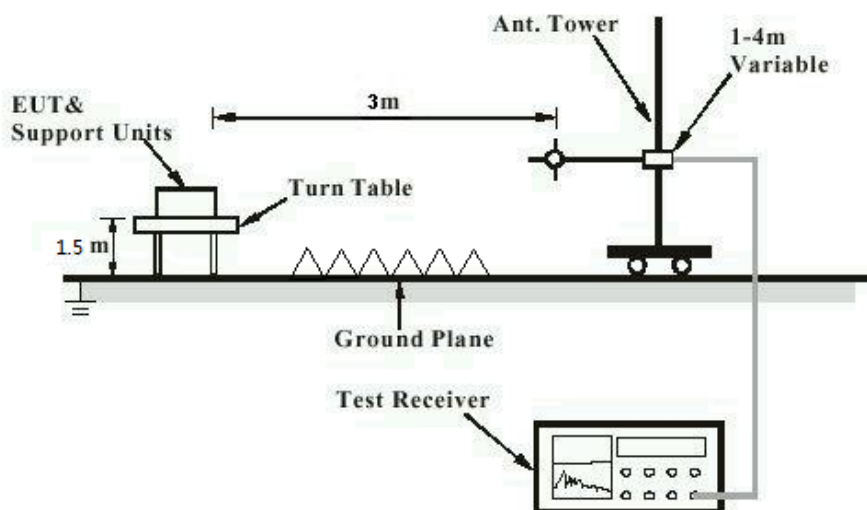


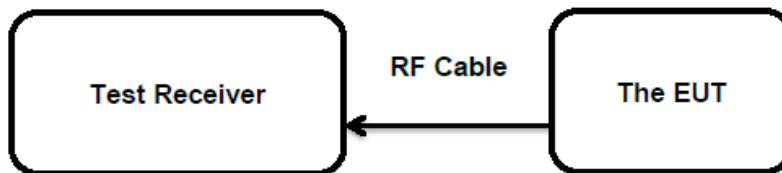
Diagram of Measurement Configuration for Radiation Test (Above 1GHz)



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Diagram of Measurement Configuration for Conducted Transmitter Measurement



5. Test Results

5.1 Radio Test Requirement & Test Suites (5GHz Bands)

5.1.1 Maximum output power

RESULT:

Pass

Test Specification

Test standard : FCC Part 15.407 (a)
Basic standard : ANSI C63.10:2013
Limits : FCC:
 <1W (30dBm) (5725-5850MHz)
Kind of test site : Shielded Room

Test Setup

Date of testing : 2024-01-18 to 2024-01-20
Test voltage : 7.7V DC by Fully charged battery
Operation mode : A
Test channel : Low / Middle / High
Ambient temperature : 25 °C
Relative humidity : 56 %
Atmospheric pressure : 101 kPa

It verified that all Power data keeps consistent with original report CN22WMZD 003, no degradation occurs.

Table 6: Test Result of Maximum Conducted Output Power, 5.8GHz SDR

Both Ant ports tested, only the worst-case reported.

Test Mode	Test Channel (MHz)	Measured Power		Limit (W)
		(dBm)	(W)	
1.4MHz BW	5728.5	11.88	0.0154	< 1.0
	5784.5	11.85	0.0153	
	5844.5	11.82	0.0152	
1.4MHz BW CA	5730.12	11.75	0.0150	
	5786.12	11.52	0.0142	
	5846.12	11.77	0.0150	
3MHz BW	5730.5	11.77	0.0150	
	5784.5	11.45	0.0140	
	5844.5	11.68	0.0147	
10MHz BW	5732.5	21.43	0.1390	
	5788.5	21.79	0.1510	
	5844.5	21.74	0.1493	
20MHz BW	5735.5	21.57	0.1435	
	5787.5	21.85	0.1531	
	5839.5	21.84	0.1528	

Max. e.i.r.p.=21.85dBm+3.5dBi=25.35dBm, which is less than 36dBm=4W.

Note:

1) The cable loss is taken into account in results.

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5.1.2 Radiated Spurious Emission**RESULT:****Pass****Test Specification**

Test standard : FCC Part 15.407(b) & FCC Part 15.205 & FCC Part 15.209
Basic standard : ANSI C63.10:2013

Limits :

- For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

Emissions outside the band 5470-5600 MHz and 5650-5725 MHz shall not exceed -27 dBm/MHz e.i.r.p.

- For transmitters operating in the 5.725-5.85 GHz band: All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.
- Restricted Bands meet the requirement of 15.209 limit

Kind of test site : 3m Semi-Anechoic Chamber (below 1GHz)
3m Anechoic Chamber (above 1GHz)

Test Setup

Date of testing : 2024-01-18 to 2024-01-20
Input voltage : 7.7V DC by Fully charged battery
Operation mode : A
Test channel : Low / Middle / High
Ambient temperature : 23 °C
Relative humidity : 48 %
Atmospheric pressure : 101 kPa

Refer to attached Appendix A for details of test data.

6. Photographs of the Test Set-Up

For photographs of the test set-up, refer to th appendix B.

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Appendix A: Test Results of 5.8GHz SDR

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Appendix A.1: Test Results of Radiated Spurious Emissions

Note: Testing was carried out within frequency range 9kHz to the tenth harmonics.

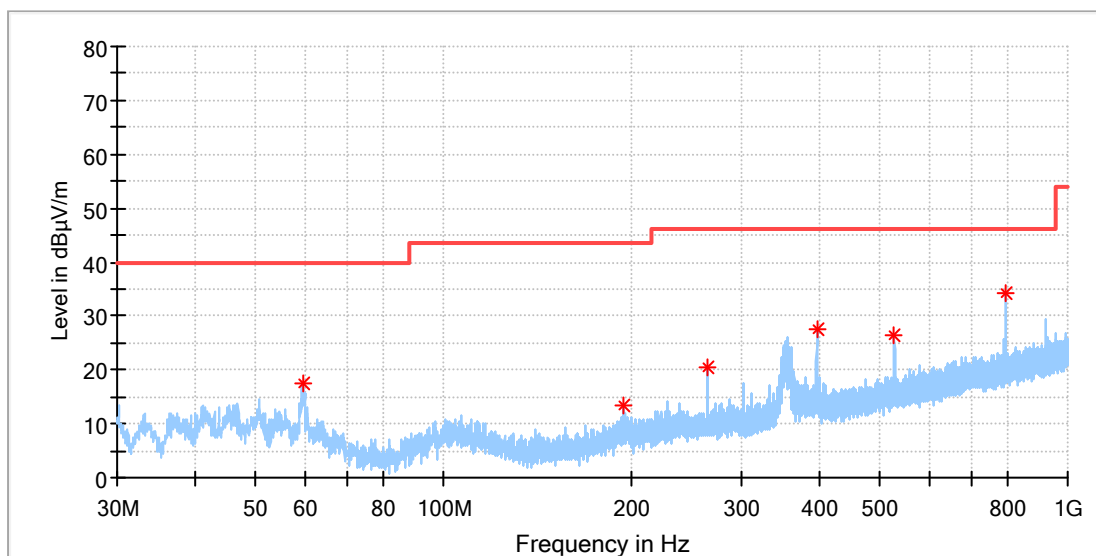
This testing was carried out on worst-case based on original report.

The measurement results below 30MHz and above 18GHz were greater than 20dB below the limit, so only the radiated spurious emissions from 30MHz to 18GHz were reported.

30MHz - 1GHz

EUT Information

EUT Name:	DJI Mini 2 SE
Model:	MT2SD
Test Mode:	SDR 5.8G_20M_5787.5MHz
Order No/Sample No:	168459266/A003634191-022
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

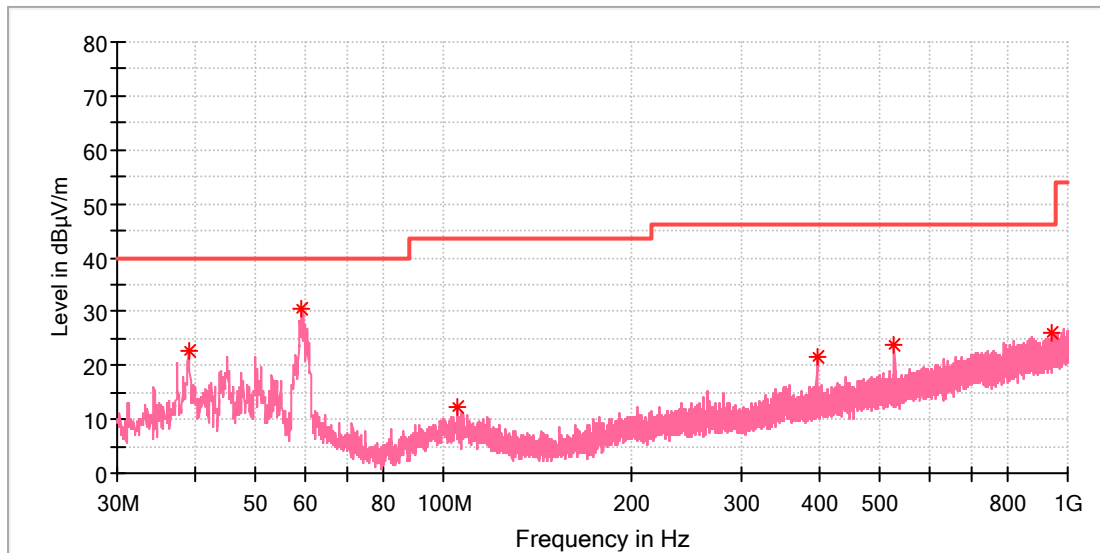
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
59.510385	17.65	40.00	22.35	100.0	H	140.0	-19.2
194.862692	13.41	43.50	30.09	100.0	H	75.0	-19.5
263.993846	20.35	46.00	25.65	100.0	H	306.0	-17.4
395.988462	27.67	46.00	18.33	100.0	H	2.0	-14.2
527.983077	26.25	46.00	19.75	100.0	H	59.0	-11.7
798.016154	34.19	46.00	11.81	100.0	H	248.0	-6.8

Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---	---	---

EUT Information

EUT Name: DJI Mini 2 SE
Model: MT2SD
Test Mode: SDR 5.8G_20M_5787.5MHz
Order No/Sample No: 168459266/A003634191-022
Test Voltage:: Battery
Remark: Temp 23 Humi:56%
Test Standard: FCC 15.407
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
39.028462	22.62	40.00	17.38	100.0	V	251.0	-20.7
59.323846	30.65	40.00	9.35	100.0	V	338.0	-19.2
105.137692	12.23	43.50	31.27	100.0	V	53.0	-19.1
395.988462	21.60	46.00	24.40	100.0	V	225.0	-14.2
527.983077	23.88	46.00	22.12	100.0	V	5.0	-11.7
939.897308	26.18	46.00	19.82	100.0	V	178.0	-5.0

Final Result

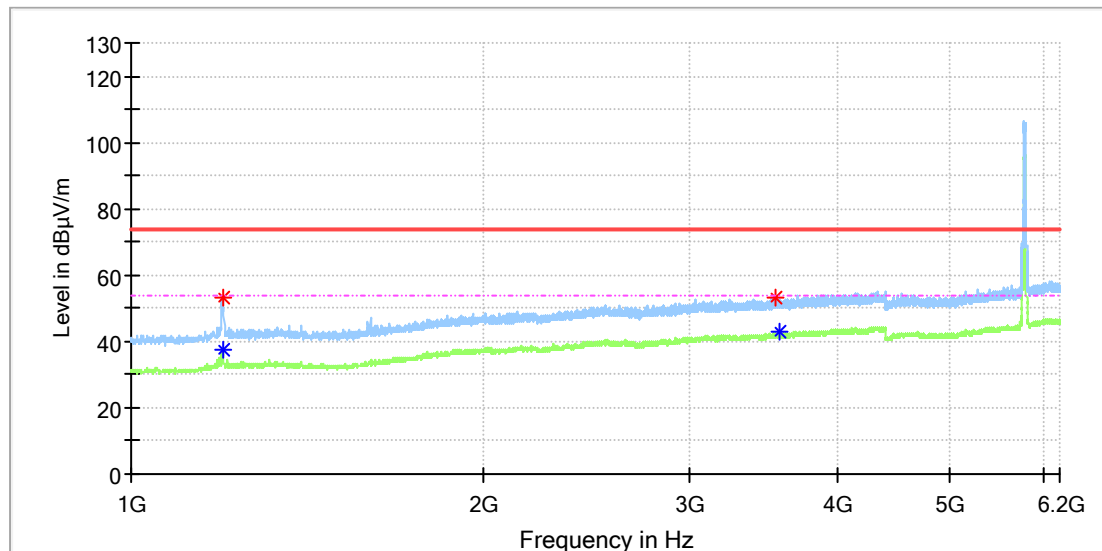
Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

Above 1GHz

Note: The highest waveform in the figure is 5.8G SDR Fundamental.

EUT Information

EUT Name:	DJI Mini 2 SE
Model:	MT2SD
Test Mode:	SDR 5.8G_20M_5787.5MHz
Order No/Sample No:	168459266/A003634191-022
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

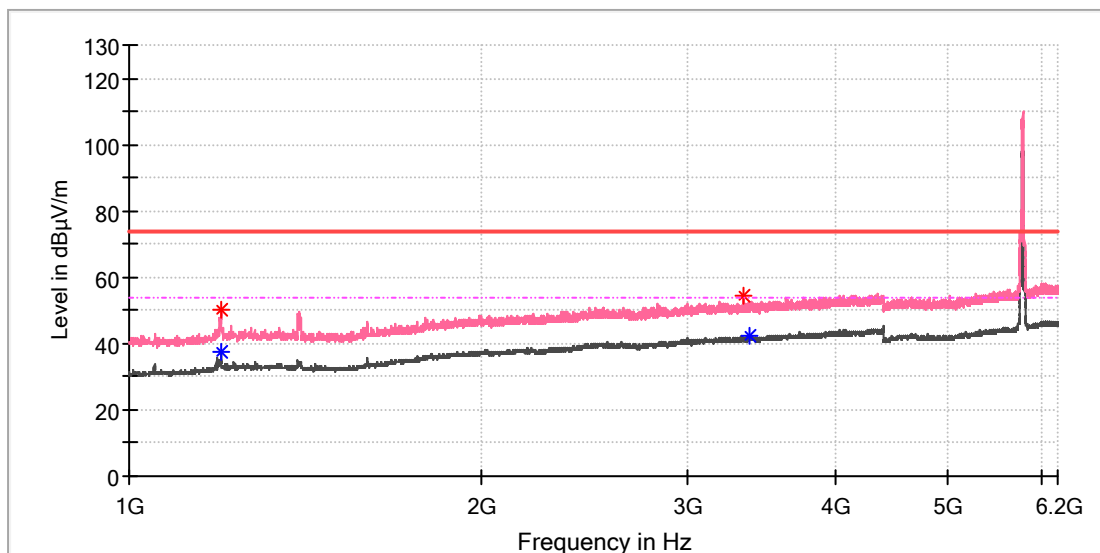
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1197.500000	---	37.60	54.00	16.40	150.0	H	307.0	1.1
1198.500000	53.04	---	74.00	20.96	150.0	H	249.0	1.1
3548.500000	53.44	---	74.00	20.56	150.0	H	279.0	9.2
3569.000000	---	42.63	54.00	11.37	150.0	H	249.0	9.2

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

EUT Information

EUT Name: DJI Mini 2 SE
Model: MT2SD
Test Mode: SDR 5.8G_20M_5787.5MHz
Order No/Sample No: 168459266/A003634191-022
Test Voltage:: Battery
Remark: Temp 23 Humi:56%
Test Standard: FCC 15.407
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

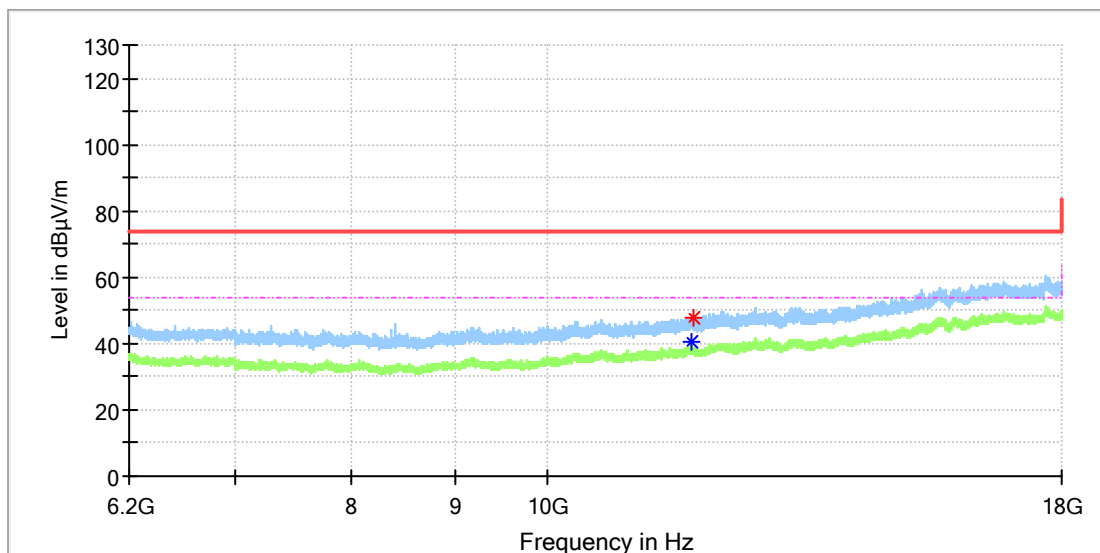
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1197.500000	50.32	---	74.00	23.68	150.0	V	111.0	1.1
1197.500000	---	37.33	54.00	16.67	150.0	V	111.0	1.1
3341.500000	54.13	---	74.00	19.87	150.0	V	152.0	8.5
3389.000000	---	42.22	54.00	11.78	150.0	V	326.0	8.7

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---	---	---

EUT Information

EUT Name: DJI Mini 2 SE
Model: MT2SD
Test Mode: SDR 5.8G_20M_5787.5MHz
Order No/Sample No: 168459266/A003634191-022
Test Voltage:: Battery
Remark: Temp 23 Humi:56%
Test Standard: FCC 15.407
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

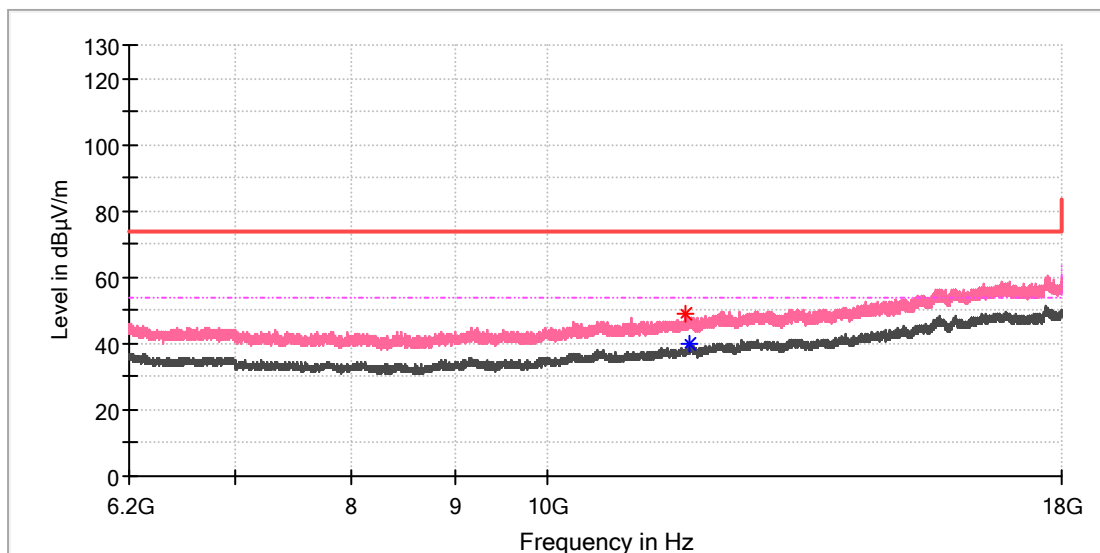
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
11800.575000	---	40.50	54.00	13.50	150.0	H	137.0	13.4
11819.258333	47.91	---	74.00	26.09	150.0	H	211.0	13.5

Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

EUT Information

EUT Name: DJI Mini 2 SE
Model: MT2SD
Test Mode: SDR 5.8G_20M_5787.5MHz
Order No/Sample No: 168459266/A003634191-022
Test Voltage:: Battery
Remark: Temp 23 Humi:56%
Test Standard: FCC 15.407
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Critical_Freqs

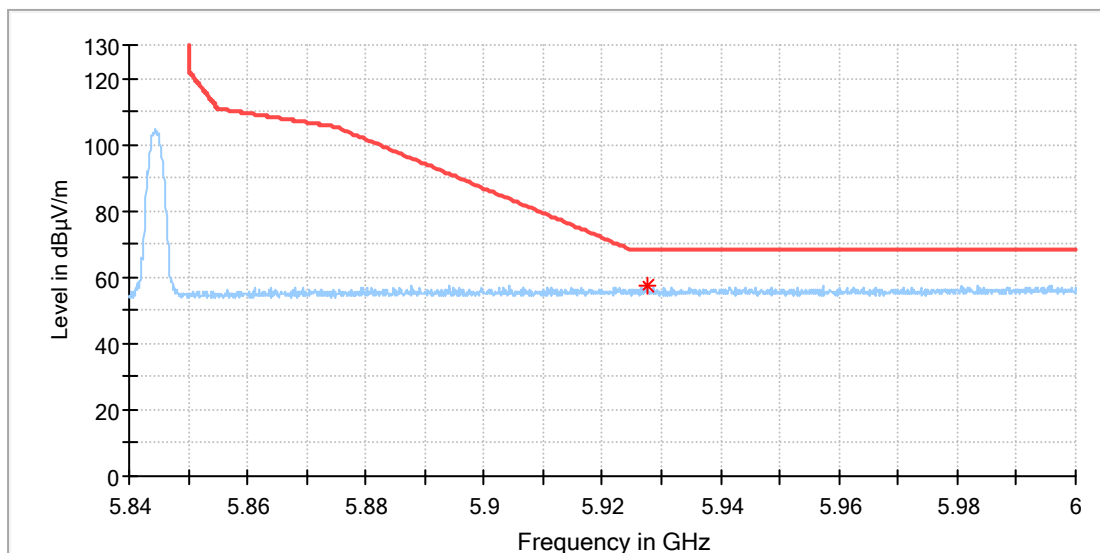
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
11721.908333	48.68	---	74.00	25.32	150.0	V	62.0	13.3
11774.025000	---	39.67	54.00	14.33	150.0	V	133.0	13.4

Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

EUT Information

EUT Name: DJI Mini 2 SE
Model: MT2SD
Test Mode: SDR 5.8G_1.4M_5844.5MHz
Order No/Sample No: 168459266/A003634191-022
Test Voltage:: Battery
Remark: Temp 23 Humi:56%
Test Standard: FCC 15.407
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

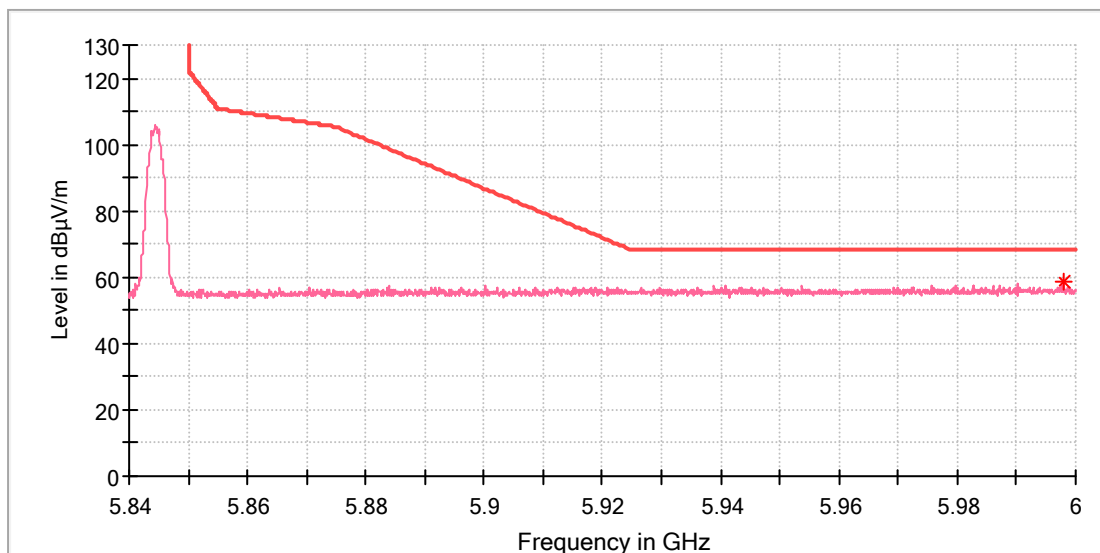
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5927.506945	57.28	68.20	10.92	150.0	H	246.0	14.7

Final_Result

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

EUT Information

EUT Name: DJI Mini 2 SE
Model: MT2SD
Test Mode: SDR 5.8G_1.4M_5844.5MHz
Order No/Sample No: 168459266/A003634191-022
Test Voltage:: Battery
Remark: Temp 23 Humi:56%
Test Standard: FCC 15.407
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5997.937500	58.39	68.20	9.81	150.0	V	295.0	15.0

Final Result

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---