

Prüfbericht-Nr.: <i>Test report no.:</i>	CN254ID2 002	Auftrags-Nr.: <i>Order no.:</i>	168530962	Seite 1 von 30 Page 1 of 30
Kunden-Referenz-Nr.: <i>Client reference no.:</i>	N/A	Auftragsdatum: <i>Order date:</i>	2025-01-15	
Auftraggeber: <i>Client:</i>	SZ DJI Osmo Technology Co., Ltd. Room S11, Floor 23, Tower 1, DJI Sky City, No. 55 Xianyuan Road, Xili Community, Xili Street, Nanshan District, Shenzhen, China.			
Prüfgegenstand: <i>Test item:</i>	DJI Mic 3 Transmitter			
Bezeichnung / Typ-Nr.: <i>Identification / Type no.:</i>	DMT03 (Trademark: DJI)			
Auftrags-Inhalt: <i>Order content:</i>	Test Report			
Prüfgrundlage: <i>Test specification:</i>	CFR47 FCC Part 15: Subpart C Section 15.247 RSS-247 Issue 3 August 2023 RSS-Gen Issue 5 February 2021			
Wareneingangsdatum: <i>Date of sample receipt:</i>	2025-01-22	Please refer to Photo Document		
Prüfmuster-Nr.: <i>Test sample no.:</i>	A003910619-005~008, 011			
Prüfzeitraum: <i>Testing period:</i>	2025-01-16 - 2025-04-11			
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>	 Hardy Suo		genehmigt von: <i>authorized by:</i>	 Lin Lin
Datum: <i>Date:</i>	2025-04-16		Ausstellungsdatum: <i>Issue date:</i>	2025-04-16
Stellung / Position:	Sachverständige(r)/Expert		Stellung / Position:	Sachverständige(r)/Expert
Sonstiges / <i>Other:</i>	FCC ID: 2ANDR-DMT03, IC: 23060-DMT03, HVIN: DMT03 This report is for Bluetooth dual mode, 2.4GHz Wi-Fi and 2.4GHz 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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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>

Test Summary

5.1.1 ANTENNA REQUIREMENT

RESULT: Pass

5.1.2 MAXIMUM PEAK CONDUCTED OUTPUT POWER

RESULT: Pass

5.1.3 CONDUCTED POWER SPECTRAL DENSITY

RESULT: Pass

5.1.4 6dB BANDWIDTH

RESULT: Pass

5.1.5 99% BANDWIDTH

RESULT: Pass

5.1.6 20dB BANDWIDTH

RESULT: Pass

5.1.7 CARRIER FREQUENCY SEPARATION

RESULT: Pass

5.1.8 NUMBER OF HOPPING FREQUENCY

RESULT: Pass

5.1.9 TIME OF OCCUPANCY

RESULT: Pass

5.1.10 CONDUCTED SPURIOUS EMISSIONS MEASURED IN 100 KHz BANDWIDTH

RESULT: Pass

5.1.11 RADIATED SPURIOUS EMISSION

RESULT: Pass

5.1.12 CONDUCTED EMISSION ON AC MAINS

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 Bluetooth BR & EDR

Appendix B: Test Results of Bluetooth LE

Appendix C: Test Results of 2.4GHz SDR

Appendix D: Photographs of 2.4GHz Wi-Fi

Appendix E: Photographs of the Test Set-up

2 Test Sites

2.1 Test Facilities

TÜV Rheinland (Shenzhen) Co., Ltd.

2-3F, 101 & 102, No.2, Nuclear Power Industrial Park, Fuming Community, Fucheng Street, Longhua District, Shenzhen 518000, People's Republic of China

A2LA Certificate Number: 5162.01

2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

Radio Spectrum Testing (SRD-Tonscend)						
Equip. No.	Description	Manufacturer	Model	Serial No.	Cal. Date (DD.MM.YYYY)	Cal. until (DD.MM.YYYY)
9039436	EXA Signal Analyzer, Multi-touch	Keysight	N9010B	MY60241175	26.09.2024	25.09.2025
9039437	MXG X-Series RF Vector Signal Generator	Keysight	N5182B	MY61250137	26.09.2024	25.09.2025
9039438	EXG X-Series Microwave Analog Signal Generator	Keysight	N5173B	MY61250141	26.09.2024	25.09.2025
9039439	DC Power Supply	Keysight	E3642A	MY61276100	26.09.2024	25.09.2025
9039440	Wireless Connectivity Tester	R&S	CMW270	102505	26.09.2024	25.09.2025
9039441	Power Control Unit	Tonscend	JS0806-4ADC	N/A	26.09.2024	25.09.2025
9039442	Automation Control Unit	Tonscend	JS0806-2	21C8060396	26.09.2024	25.09.2025
9039443	Test Software	Tonscend	JS1120-3	N/A	N/A	N/A
9039444	Control PC	Lenovo	TianYi510S-071MB	YLX23JMF	N/A	N/A
G1826483	Humid & Temp Programmable Tester	BOST	NTH090-60	19040801	25.02.2025	24.02.2026
Unwanted Emission Testing (TS9975)						
Equip. No.	Description	Manufacturer	Model	Serial No.	Cal. Date (DD.MM.YYYY)	Cal. until (DD.MM.YYYY)
G1826021	EMI Test Receiver	R&S	ESR 7	102021	29.09.2024	28.09.2025
G1826023	Signal Analyzer	R&S	FSV 40	101439	29.09.2024	28.09.2025
G1826024	System Controller Interface	R&S	SCI-100	S10010038	N/A	N/A
G1826025	Filterbank	R&S	Wlan	100759	29.09.2024	28.09.2025
G1826026	OSP	R&S	OSP 120	102040	N/A	N/A
G1826028	Pre-amplifier	R&S	SCU08F1	08320031	29.09.2024	28.09.2025
G1826029	Amplifier	R&S	SCU-18F	180070	29.09.2024	28.09.2025
G1826030	Amplifier	R&S	SCU40A	100475	29.09.2024	28.09.2025

G1826031	Trilog Broadband Antenna (30 MHz - 7 GHz)	Schwarzbeck	VULB 9162	193	28.09.2024	27.09.2026
G1826032	Double-Ridged Antenna (1 -18 GHz)	ETS-LINDGREN	3117	00218717	28.09.2024	27.09.2026
G1826033	Wideband Ridged Horn Antenna (18-40 GHz)	Steatite	QMS-00880	19067	28.09.2024	27.09.2026
G1826034	Active Loop Antenna	Schwarzbeck	FMZB 1513	302	28.09.2024	27.09.2026
G1826036	Test software	R&S	EMC32 (V10.60.10)	N/A	N/A	N/A
G1826037	Control PC	Dell	OptiPlex 7050	36NV9P2	N/A	N/A
G1826433	3m Semi-Anechoic Chamber	Albatross	SAC-3m	APC17151-SAC	14.09.2024	13.09.2027

Conducted Emission on AC Mains

Equipment	Manufacturer	Model No.	Serial No.	Cal. Until
EMI Test Receiver	R&S	ESR3	102680	2026-02-09
Artificial Mains Network	R&S	ENV216	102333	2025-07-22
LISN ENV216-Receiver cable in SR3	Calibration frequency range: 9 kHz~30 MHz			2025-12-20
EMC32 test software	R&S	EMC32(Ver.10.50.00)	N/A	N/A

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 Measurement Uncertainty

The estimated combined standard uncertainty for radiated emissions and conducted emissions measurements as below table.

Table 2: Measurement Uncertainty

Parameter	Uncertainty (k=2)
RF output power, conducted	± 0.99 dB
Occupied Channel Bandwidth	± 2.08 %
RF power density, conducted	± 0.99 dB
Unwanted Emissions, conducted	± 0.89 dB
All emissions, radiated	±4.17 dB
Conducted Emission, (9kHz to 150kHz)/(150kHz to 30MHz)	± 3.70 dB / ± 3.30 dB

2.6 Location of Original Data

The original copies of all test data taken during actual testing were attached at Appendix A & B & C & D & E 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 2-3F, 101 & 102, No.2, Nuclear Power Industrial Park, Fuming Community, Fucheng Street, Longhua District, Shenzhen 518000, 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 Product is a DJI Mic 3 Transmitter which supports Bluetooth dual mode, 2.4/5GHz SDR and 2.4/5.8GHz Wi-Fi 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.

3.2 Ratings and System Details

Table 3: Technical Specification of EUT

General Information of EUT	Value
Kind of Equipment:	DJI Mic 3 Transmitter
Type Designation:	DMT03
Trademark:	DJI
FCC ID:	2ANDR-DMT03
IC:	23060-DMT03
HVIN:	DMT03
Operating Voltage:	3.87V DC by built-in battery, or Charging by Charging Contacts DC 5V, or Charging by Charging Case (MN: DMC03) DC 5V
Testing Voltage:	Fully charged battery
Operating Temperature Range:	-10 °C ~ +45 °C
Radiofrequency operating mode:	1) Bluetooth: operating within 2400-2483.5MHz, Classic Bluetooth (BR&EDR), Bluetooth BLE (1Mbps&2Mbps&3Mbps) 2) 2.4GHz SDR: operating within 2400-2483.5MHz, supports 10MHz and 20MHz Bandwidth 3) 2.4GHz Wi-Fi: operating within 2400-2483.5MHz, supports 802.11b/g/n20/ax20 4) 5GHz SDR: operating within 5150-5250MHz, 5250-5350MHz, 5470-5725MHz, 5725-5875MHz supports 10MHz and 20MHz Bandwidth 5) 5.8GHz Wi-Fi: operating within 5725-5875MHzMHz, supports 802.11a/n20/ac20/ax20
Technical Specification of Bluetooth (dual mode)	
Operating Frequency:	2402 MHz to 2480 MHz
Type of Modulation:	GFSK, $\pi/4$ -DQPSK, 8DPSK
Channel Number:	BR & EDR mode:79 channels, Low Energy mode:40 channels
Channel Separation:	BR & EDR mode:1MHz, Low Energy mode:2MHz
Data Rate:	BR & EDR mode: 1Mbps, 2Mbps, 3Mbps Low Energy mode: 1Mbps, 2Mbps, 3Mbps
Antenna Type:	Integral Antenna
Antenna Number:	1

Antenna Gain:	0.53 dBi (Provided by the Client)
The type of wideband data transmission equipment:	BR & EDR mode: FHSS Low Energy mode: Non-FHSS
Technical Specification of 2.4GHz SDR	
Operating Frequency:	2408 MHz to 2478 MHz
Type of Modulation:	OFDM(BPSK/QPSK/16QAM/64QAM)
Channel Number:	15 channels for 10MHz bandwidth 13 channels for 20MHz bandwidth
Channel Separation:	5MHz
Data Rate:	2Mbps
Antenna Type:	Integral Antenna
Antenna Number:	1
Antenna Gain:	0.53 dBi (Provided by the Client)
The type of wideband data transmission equipment:	Non-FHSS
Technical Specification of 2.4GHz Wi-Fi	
Operating Frequency:	2412 – 2462 MHz for 802.11b/g/n(HT20)/ax20
Type of Modulation:	DSSS(DBPSK/DQPSK/CCK) OFDM(BPSK/QPSK/16QAM/64QAM)
Channel Number:	11 channels
Channel Separation:	5MHz
Data Rate:	1/2/5.5/11 Mbps for 802.11b 6/9/12/18/24/36/48/54 Mbps for 802.11g MCS0 ~ MCS7 for 802.11n(HT20)/ax20
Multi-RU:	No, full RU
Antenna Type:	Integral Antenna
Antenna Number:	1
Antenna Gain:	0.53 dBi (Provided by the Client)
The type of wideband data transmission equipment:	Non-FHSS
Remark: Bluetooth (dual mode), 2.4GHz Wi-Fi and 2.4GHz SDR share the same transmitter antenna.	

Table 4: RF Channel and Frequency of Bluetooth BR & EDR

RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)
0	2402.00	20	2422.00	40	2442.00	60	2462.00
1	2403.00	21	2423.00	41	2443.00	61	2463.00
2	2404.00	22	2424.00	42	2444.00	62	2464.00
3	2405.00	23	2425.00	43	2445.00	63	2465.00
4	2406.00	24	2426.00	44	2446.00	64	2466.00
5	2407.00	25	2427.00	45	2447.00	65	2467.00
6	2408.00	26	2428.00	46	2448.00	66	2468.00
7	2409.00	27	2429.00	47	2449.00	67	2469.00
8	2410.00	28	2430.00	48	2450.00	68	2470.00
9	2411.00	29	2431.00	49	2451.00	69	2471.00
10	2412.00	30	2432.00	50	2452.00	70	2472.00
11	2413.00	31	2433.00	51	2453.00	71	2473.00

12	2414.00	32	2434.00	52	2454.00	72	2474.00
13	2415.00	33	2435.00	53	2455.00	73	2475.00
14	2416.00	34	2436.00	54	2456.00	74	2476.00
15	2417.00	35	2437.00	55	2457.00	75	2477.00
16	2418.00	36	2438.00	56	2458.00	76	2478.00
17	2419.00	37	2439.00	57	2459.00	77	2479.00
18	2420.00	38	2440.00	58	2460.00	78	2480.00
19	2421.00	39	2441.00	59	2461.00		

Test frequencies are lowest channel: 2402 MHz, middle channel: 2441 MHz and highest channel: 2480 MHz for Bluetooth BR & EDR

Table 5: RF Channel and Frequency of Bluetooth LE

RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)
0	2402	10	2422	20	2442	30	2462
1	2404	11	2424	21	2444	31	2464
2	2406	12	2426	22	2446	32	2466
3	2408	13	2428	23	2448	33	2468
4	2410	14	2430	24	2450	34	2470
5	2412	15	2432	25	2452	35	2472
6	2414	16	2434	26	2454	36	2474
7	2416	17	2436	27	2456	37	2476
8	2418	18	2438	28	2458	38	2478
9	2420	19	2440	29	2460	39	2480

Table 6: RF Channel and Frequency of 2.4GHz SDR

RF Channel	2.4GHz SDR, 10MHz BW	2.4GHz SDR, 20MHz BW
	Frequency (MHz)	Frequency (MHz)
01	2408	2413
02	2413	2418
03	2418	2423
04	2423	2428
05	2428	2433
06	2433	2438
07	2438	2443
08	2443	2448
09	2448	2453
10	2453	2458
11	2458	2463
12	2463	2468
13	2468	2473
14	2473	
15	2478	

Table 7: RF Channel and Frequency of 2.4GHz Wi-Fi

RF Channel	802.11 b/g/n(HT20)/ax20
	Frequency (MHz)
01	2412

02	2417
03	2422
04	2427
05	2432
06	2437
07	2442
08	2447
09	2452
10	2457
11	2462

3.3 Independent Operation Modes

The basic operation modes are:

- A. On, Bluetooth wireless (BR & EDR mode)
 - 1 Transmitting (Low / Middle / High channel)
 - 2 Receiving (Low / Middle / High channel)
 - 3 Bluetooth Hopping mode
- B. On, Bluetooth wireless (Low Energy mode)
 - 1 Transmitting (Low / Middle / High channel)
 - 2 Receiving (Low / Middle / High channel)
- C. On, 2.4GHz SDR transmitting mode
 - 1 Transmitting (Low / Middle / High channel)
 - 2 Receiving (Low / Middle / High channel)
- D. On, 2.4GHz Wi-Fi transmitting mode
 - 1 Transmitting (Low / Middle / High channel)
 - 2 Receiving (Low / Middle / High channel)

3.4 Noise Generating and Noise Suppressing Parts

Refer to Circuit Diagram for further details.

3.5 Submitted Documents

- Application Form
- ID Label and Location Info
- User Manual
- Operation Description

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 and Test Software

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 DMT03 in this report.

4.3 Special Accessories and Auxiliary Equipment

Table 8: List of Accessories and Auxiliary Equipment

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

4.4 Countermeasures to Achieve EMC 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)

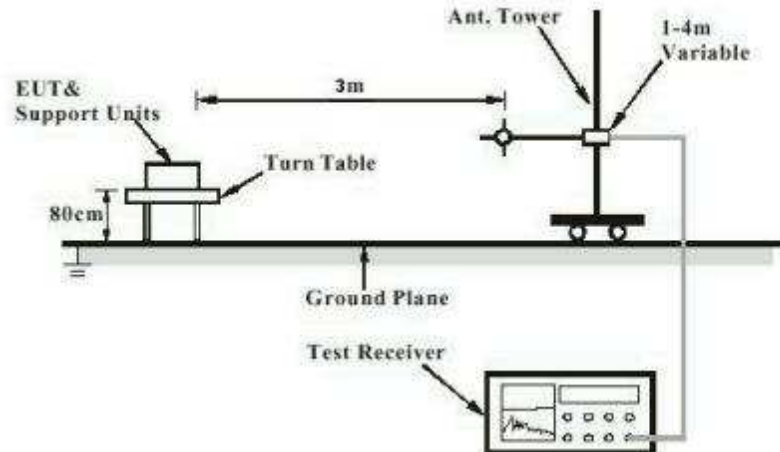


Diagram of Measurement Configuration for Radiation Test (Above 1GHz)

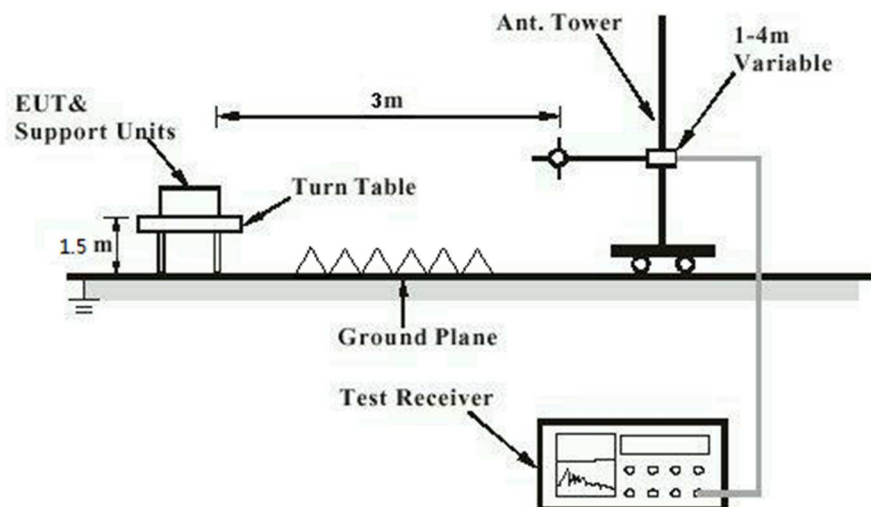


Diagram of Measurement Configuration for Mains Conduction Measurement

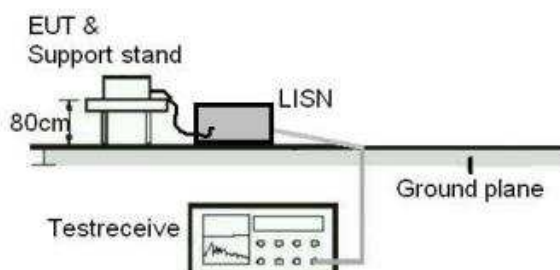
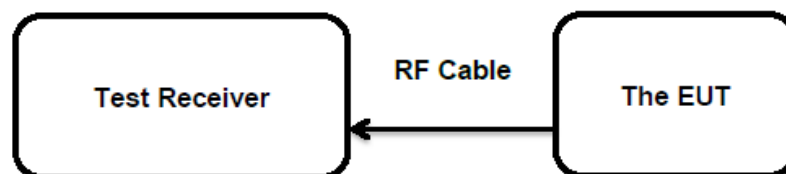


Diagram of Measurement Configuration for Conducted Transmitter Measurement



5 Test Results

5.1 Transmitter Requirement & Test Suites

5.1.1 Antenna Requirement

RESULT:**Pass****Test Specification**

Test standard : FCC Part 15.247(b)(4) and Part 15.203
RSS-Gen Clause 6.8

According to the manufacturer declared, the EUT has one Integral Antenna, the directional gain of antenna is 0.53 dBi for Bluetooth dual mode, 2.4GHz Wi-Fi and 2.4GHz SDR, and the antenna connector is designed with permanent attachment and no consideration of replacement.

Therefore the EUT is considered sufficient to comply with the provision.

Refer to EUT Photo for further details.

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5.1.2 Maximum Peak Conducted Output Power

RESULT:

Pass

Test Specification

Test standard	: FCC Part 15.247(b)(1)&(3) RSS-247 Clause 5.4(b)&(d)
Basic standard	: ANSI C63.10: 2013
Limits	: FHSS < 0.125 Watts, DSSS < 1.0 Watts
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 2025-01-16 - 2025-04-11
Input voltage	: Fully charged battery
Operation mode	: A, B, C, D
Test channel	: Low / Middle / High
Ambient temperature	: 24.5 °C
Relative humidity	: 50 %
Atmospheric pressure	: 101 kPa

For details refer to following test result.

Table 9: Test Result of Maximum Peak Conducted Output Power, Bluetooth BR & EDR

Test Mode	Test Channel (MHz)	Measured Peak Power		Limit (W)
		(dBm)	(W)	
GFSK (BR)	2402	15.59	0.0362	< 0.125
	2441	14.64	0.0291	
	2480	14.43	0.0277	
8DPSK (EDR)	2402	14.52	0.0283	
	2441	14.20	0.0263	
	2480	13.74	0.0237	
Maximum Measured Value		15.59	0.0362	
Max. e.i.r.p.=15.59dBm+0.53dBi=16.12dBm, which is less than 36dBm=4W.				

Table 10: Test Result of Maximum Peak Conducted Output Power, Bluetooth LE

Test Mode	Data Rate	Test Channel (MHz)	Measured Peak Power		Limit (W)
			(dBm)	(W)	
Bluetooth LE	1 Mbps	2402	8.60	0.0072	< 1.0
		2440	8.18	0.0066	
		2480	7.83	0.0061	
	2 Mbps	2402	8.66	0.0073	
		2440	8.22	0.0066	
		2480	7.93	0.0062	
	3 Mbps	2402	8.63	0.0073	
		2440	8.19	0.0066	
		2480	7.99	0.0063	
Maximum Measured Value			8.66	0.0073	
Max. e.i.r.p.=8.66dBm+0.53dBi=9.19dBm, which is less than 36dBm=4W.					

Table 11: Test Result of Maximum Peak Conducted Output Power, 2.4GHz SDR

Test Mode	Test Channel (MHz)	Measured Peak Power		Limit (W)
		(dBm)	(W)	
2.4GHz SDR, 10MHz BW	2408	16.06	0.0404	< 1.0
	2448	16.16	0.0413	
	2478	16.39	0.0436	
2.4GHz SDR, 20MHz BW	2413	16.24	0.0421	
	2443	16.30	0.0427	
	2473	16.23	0.0420	
Maximum Measured Value		16.39	0.0436	
Max. e.i.r.p.=16.39dBm+0.53dBi=16.92dBm, which is less than 36dBm=4W.				

Table 12: Test Result of Maximum Peak Conducted Output Power, 2.4GHz Wi-Fi

Test Mode	Data Rate	Test Channel (MHz)	Measured Peak Power		Limit (W)
			(dBm)	(W)	
802.11b	1 Mbps	2412	19.01	0.0796	< 1.0
		2437	18.89	0.0774	
		2462	19.46	0.0883	
802.11g	6 Mbps	2412	22.65	0.1841	
		2437	22.99	0.1991	
		2462	23.23	0.2104	
802.11n (HT20)	MCS0	2412	22.55	0.1799	
		2437	22.61	0.1824	
		2462	22.73	0.1875	
802.11n	MCS0	2412	22.9	0.1950	

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(AX20)		2437	23.04	0.2014	
		2462	22.76	0.1888	
Maximum Measured Value			23.23	0.2104	
Max. e.i.r.p.=23.23dBm+0.53dBi=23.76dBm, which is less than 36dBm=4W.					

Note:

- 1) The cable loss is taken into account in results.
- 2) Antenna gain(G): 0.53 dBi for Bluetooth dual mode, 2.4GHz Wi-Fi and 2.4GHz SDR.

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5.1.3 Conducted Power Spectral Density

RESULT:**Pass****Test Specification**

Test standard	: FCC Part 15.247(e) RSS-247 Clause 5.2(b)
Basic standard	: ANSI C63.10: 2013
Limits	: < 8 dBm / 3kHz
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 2025-01-16 - 2025-04-11
Input voltage	: Fully charged battery
Operation mode	: B, C, D
Test channel	: Low / Middle / High
Ambient temperature	: 24.5 °C
Relative humidity	: 50 %
Atmospheric pressure	: 101 kPa

For the measurement records, refer to the appendix B, C, D.

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5.1.4 6dB Bandwidth

RESULT:

Pass

Test Specification

Test standard	: FCC Part 15.247(a)(2) RSS-247 Clause 5.2(a)
Basic standard	: ANSI C63.10: 2013
Limits	: > 500 KHz
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 2025-01-16 - 2025-04-11
Input voltage	: Fully charged battery
Operation mode	: B, C, D
Test channel	: Low / Middle / High
Ambient temperature	: 24.5 °C
Relative humidity	: 50 %
Atmospheric pressure	: 101 kPa

For the measurement records, refer to the appendix B, C, D.

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5.1.5 99% Bandwidth

RESULT:**Pass****Test Specification**

Test standard	: FCC Part 15.247(a) RSS-Gen Clause 6.7
Basic standard	: ANSI C63.10: 2013
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 2025-01-16 - 2025-04-11
Input voltage	: Fully charged battery
Operation mode	: A, B, C, D
Test channel	: Low / Middle / High
Ambient temperature	: 24.5 °C
Relative humidity	: 50 %
Atmospheric pressure	: 101 kPa

For the measurement records, refer to the appendix A, B, C, D.

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5.1.6 20dB Bandwidth

RESULT:

Pass

Test Specification

Test standard	: FCC Part 15.247(a)(1) RSS-247 Clause 5.1(a)
Basic standard	: ANSI C63.10: 2013
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 2025-01-16 - 2025-04-11
Input voltage	: Fully charged battery
Operation mode	: A
Test channel	: Low / Middle / High
Ambient temperature	: 24.5 °C
Relative humidity	: 50 %
Atmospheric pressure	: 101 kPa

For the measurement records, refer to the appendix A.

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5.1.7 Carrier Frequency Separation

RESULT:**Pass****Test Specification**

Test standard	: FCC Part 15.247(a)(1) RSS-247 Clause 5.1(b)
Basic standard	: ANSI C63.10: 2013
Limits	: $\geq 25\text{kHz}$ or $2/3$ of 20dB bandwidth, whichever is greater
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 2025-01-16 - 2025-04-11
Input voltage	: Fully charged battery
Operation mode	: A
Test channel	: Low / Middle / High
Ambient temperature	: 24.5 °C
Relative humidity	: 50 %
Atmospheric pressure	: 101 kPa

For the measurement records, refer to the appendix A.

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5.1.8 Number of Hopping Frequency

RESULT:**Pass****Test Specification**

Test standard	: FCC part 15.247(a)(1)(iii) RSS-247 Clause 5.1(d)
Basic standard	: ANSI C63.10: 2013
Limits	: ≥ 15 non-overlapping channels
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 2025-01-16 - 2025-04-11
Input voltage	: Fully charged battery
Operation mode	: A
Ambient temperature	: 24.5 °C
Relative humidity	: 50 %
Atmospheric pressure	: 101 kPa

For the measurement records, refer to the appendix A.

5.1.9 Time of Occupancy

RESULT:**Pass****Test Specification**

Test standard	: FCC part 15.247(a)(1)(iii) RSS-247 Clause 5.1(d)
Basic standard	: ANSI C63.10: 2013
Limits	: < 0.4s
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 2025-01-16 - 2025-04-11
Input voltage	: Fully charged battery
Operation mode	: A
Test channel	: Low / Middle / High
Ambient temperature	: 24.5 °C
Relative humidity	: 50 %
Atmospheric pressure	: 101 kPa

For the measurement records, refer to the appendix A.

5.1.10 Conducted Spurious Emissions Measured in 100 kHz Bandwidth

RESULT:**Pass****Test Specification**

Test standard	: FCC Part 15.247(d) RSS-247 Clause 5.5
Basic standard	: ANSI C63.10: 2013
Limits	: 20dB (below that in the 100kHz bandwidth within the band that contains the highest level of the desired power); In addition, radiated emissions which fall in the restricted bands, must also comply with the radiated emission limits specified in 15.209(a)
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 2025-01-16 - 2025-04-11
Input voltage	: Fully charged battery
Operation mode	: A, B, C, D
Test channel	: Low / Middle / High
Ambient temperature	: 24.5 °C
Relative humidity	: 50 %
Atmospheric pressure	: 101 kPa

Test results of 100kHz Bandwidth of Frequency Band Edge by Conducted method refer to test plots, and compliance is achieved as well.

For the measurement records, refer to the appendix A, B, C, D.

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5.1.11 Radiated Spurious Emission

RESULT:**Pass****Test Specification**

Test standard	: FCC Part 15.247(d) & FCC Part 15.205 RSS-247 Clause 3.3
Basic standard	: ANSI C63.10: 2013
Limits	: Refer to 15.209(a) of FCC part 15.247(d) RSS-Gen Section 8.9 & 8.10
Kind of test site	: 3m Semi-anechoic Chamber

Test Setup

Date of testing	: 2025-01-16 - 2025-04-11
Input voltage	: Fully charged battery
Operation mode	: A, B, C, D
Test channel	: Low / Middle / High
Ambient temperature	: Refer to test result
Relative humidity	: Refer to test result
Atmospheric pressure	: 101 kPa

Remark:

Testing was carried out within frequency range 9kHz to the tenth harmonics. Only the worst case spurious emissions configuration of the each mode were reported.

For the measurement records, refer to the appendix A, B, C, D.

Prüfbericht - Nr.: CN254ID2 002
Test Report No.:Seite 29 von 30
Page 29 of 30**5.1.12 Conducted Emission on AC Mains****RESULT:****Pass****Test Specification**

Test standard	: FCC Part 15.207(a) RSS-Gen Section 8.8
Basic standard	: ANSI C63.10: 2013
Frequency range	: 0.15 – 30MHz
Classification	: Class B
Limits	: FCC Part 15.207(a) RSS-Gen Table 4
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 2025-01-16 - 2025-04-11
Input voltage	: AC 120V/60Hz
Operation mode	: A, B, C, D
Earthing	: Not connected
Ambient temperature	: 23.7 °C
Relative humidity	: 52.2 %
Atmospheric pressure	: 101 kPa

For the measurement records, refer to the appendix A, B, C, D.

6 Photographs of the Test Set-Up

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

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Appendix A: Test Results of Bluetooth BR & EDR

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Appendix A.1: Test Results of 20dB Bandwidth

Test Result

TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	1.044	2401.487	2402.531	---	PASS
		2441	0.984	2440.514	2441.498	---	PASS
		2480	0.999	2479.541	2480.540	---	PASS
3DH5	Ant1	2402	1.254	2401.358	2402.612	---	PASS
		2441	1.245	2440.367	2441.612	---	PASS
		2480	1.293	2479.352	2480.645	---	PASS

Test Graphs



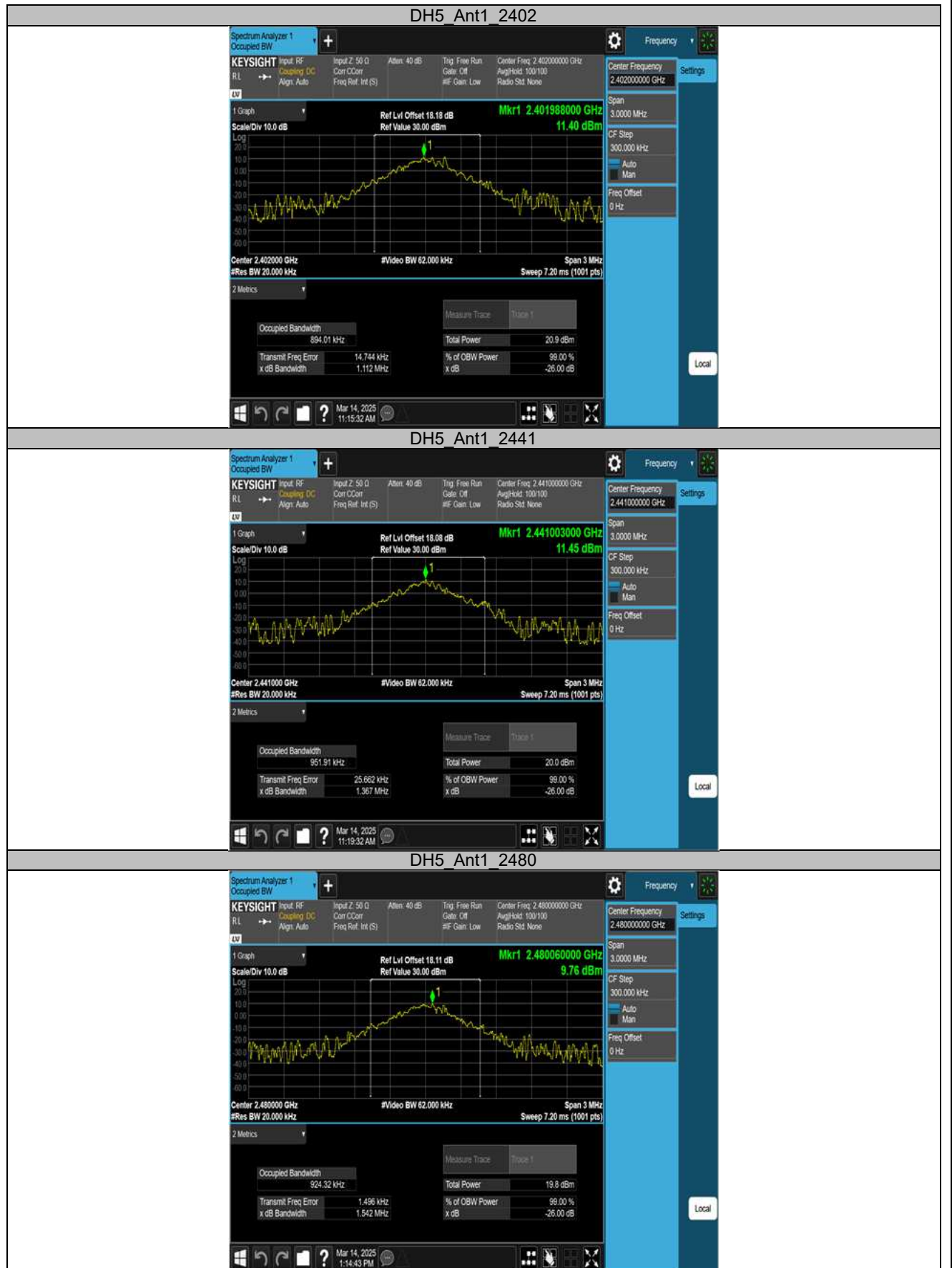


Appendix A.2: Test Results of 99% Bandwidth

Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.89401	2401.5677	2402.4617	---	PASS
		2441	0.95191	2440.5497	2441.5016	---	PASS
		2480	0.92432	2479.5393	2480.4637	---	PASS
3DH5	Ant1	2402	1.1979	2401.3959	2402.5938	---	PASS
		2441	1.2097	2440.3879	2441.5976	---	PASS
		2480	1.2041	2479.3875	2480.5916	---	PASS

Test Graphs



3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480



Appendix A.3: Test Results of Carrier Frequency Separation

Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.944	≥ 0.696	PASS
3DH5	Ant1	Hop	1.004	≥ 0.862	PASS

Test Graphs

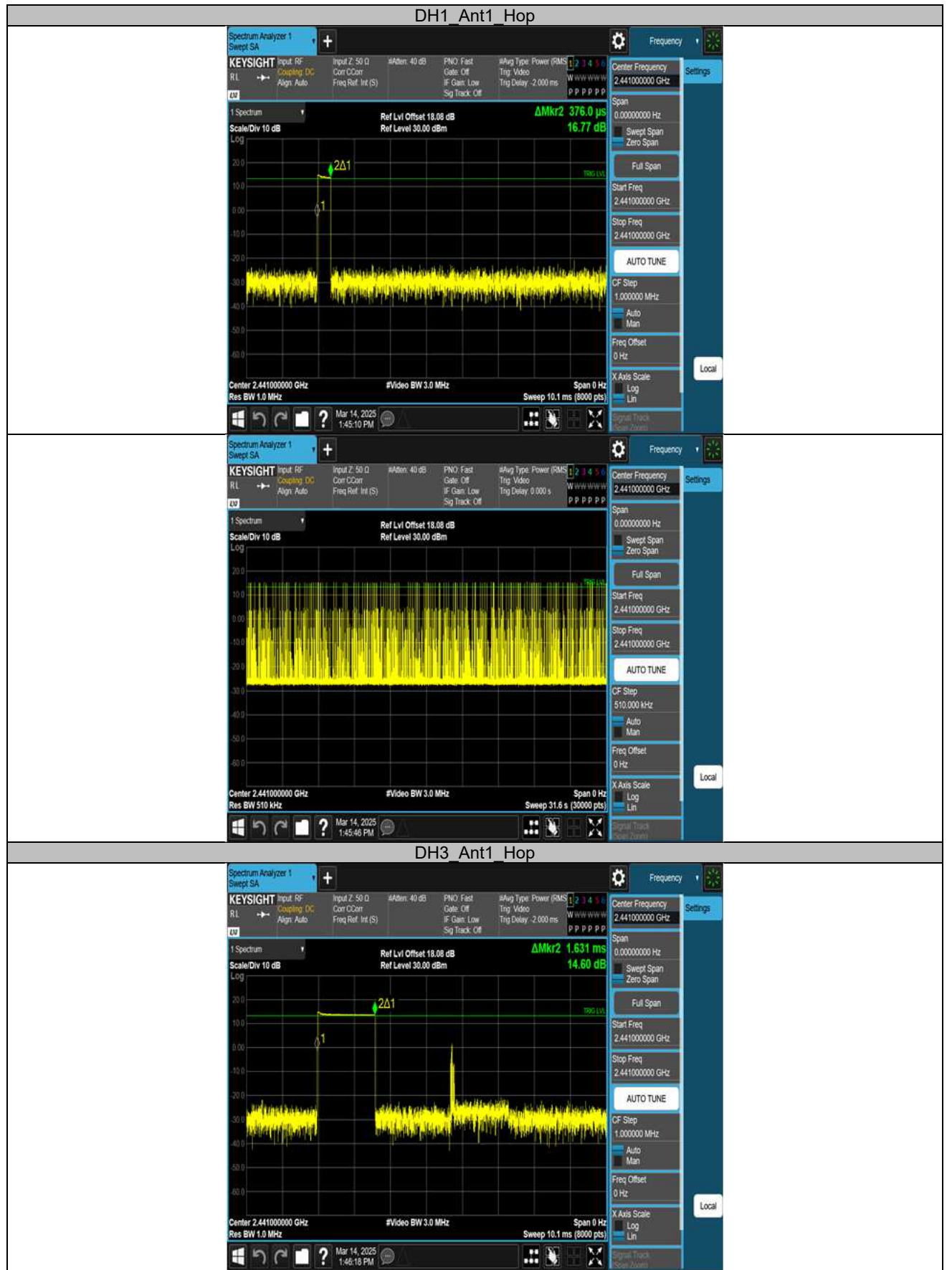


Appendix A.4: Test Results of Time of Occupancy

Test Result

TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.376	157	0.059	≤0.4	PASS
DH3	Ant1	Hop	1.631	104	0.17	≤0.4	PASS
DH5	Ant1	Hop	2.880	83	0.239	≤0.4	PASS
3DH1	Ant1	Hop	0.385	162	0.062	≤0.4	PASS
3DH3	Ant1	Hop	1.635	100	0.164	≤0.4	PASS
3DH5	Ant1	Hop	2.887	89	0.257	≤0.4	PASS

Test Graphs





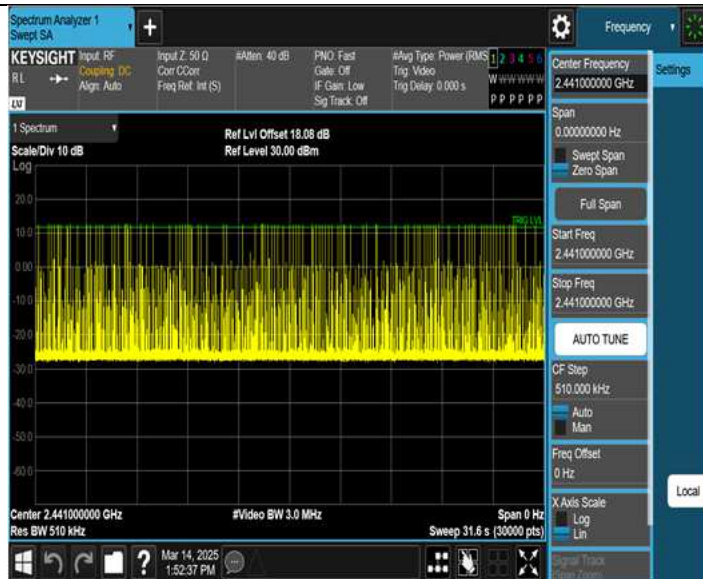
DH5_Ant1_Hop



3DH1_Ant1_Hop







3DH5_Ant1_Hop



Appendix A.5: Test Results of Number of Hopping Frequency

Test Result

TestMode	Antenna	Channel	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
3DH5	Ant1	Hop	79	≥15	PASS

Test Graphs



Appendix A.6: Test Results of Band Edge Measurements

Test Result

TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	15.46	-23.61	≤-4.54	PASS
		High	2480	14.19	-38.09	≤-5.81	PASS
3DH5	Ant1	Low	2402	12.64	-17.80	≤-7.36	PASS
		High	2480	11.95	-26.23	≤-8.05	PASS
DH5	Ant1	Hopping	2402	13.09	-41.76	≤-6.91	PASS
		Hopping	2480	12.42	-44.39	≤-7.58	PASS
3DH5	Ant1	Hopping	2402	8.41	-43.64	≤-11.59	PASS
		Hopping	2480	6.69	-44.40	≤-13.31	PASS

Test Graphs





DH5 Ant1 Hopping 2402



DH5 Ant1 Hopping 2480



3DH5 Ant1 Hopping 2402



3DH5 Ant1 Hopping 2480



Appendix A.7: Test Results of Conducted Spurious Emission

Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	13.29	13.29	---	PASS
			30~1000	13.29	-41.3	≤-6.71	PASS
			1000~26500	13.29	-31.91	≤-6.71	PASS
		2441	Reference	13.75	13.75	---	PASS
			30~1000	13.75	-41.33	≤-6.25	PASS
			1000~26500	13.75	-33.31	≤-6.25	PASS
		2480	Reference	12.48	12.48	---	PASS
			30~1000	12.48	-41.68	≤-7.52	PASS
			1000~26500	12.48	-32.67	≤-7.52	PASS
3DH5	Ant1	2402	Reference	9.33	9.33	---	PASS
			30~1000	9.33	-41.24	≤-10.67	PASS
			1000~26500	9.33	-32.37	≤-10.67	PASS
		2441	Reference	8.14	8.14	---	PASS
			30~1000	8.14	-41.42	≤-11.86	PASS
			1000~26500	8.14	-32.67	≤-11.86	PASS
		2480	Reference	9.27	9.27	---	PASS
			30~1000	9.27	-41.68	≤-10.73	PASS
			1000~26500	9.27	-32.11	≤-10.73	PASS

Test Graphs

DH5 Ant1_2402 0~Reference



DH5 Ant1_2402 30~1000



DH5 Ant1_2402 1000~26500



DH5 Ant1 2441 0~Reference

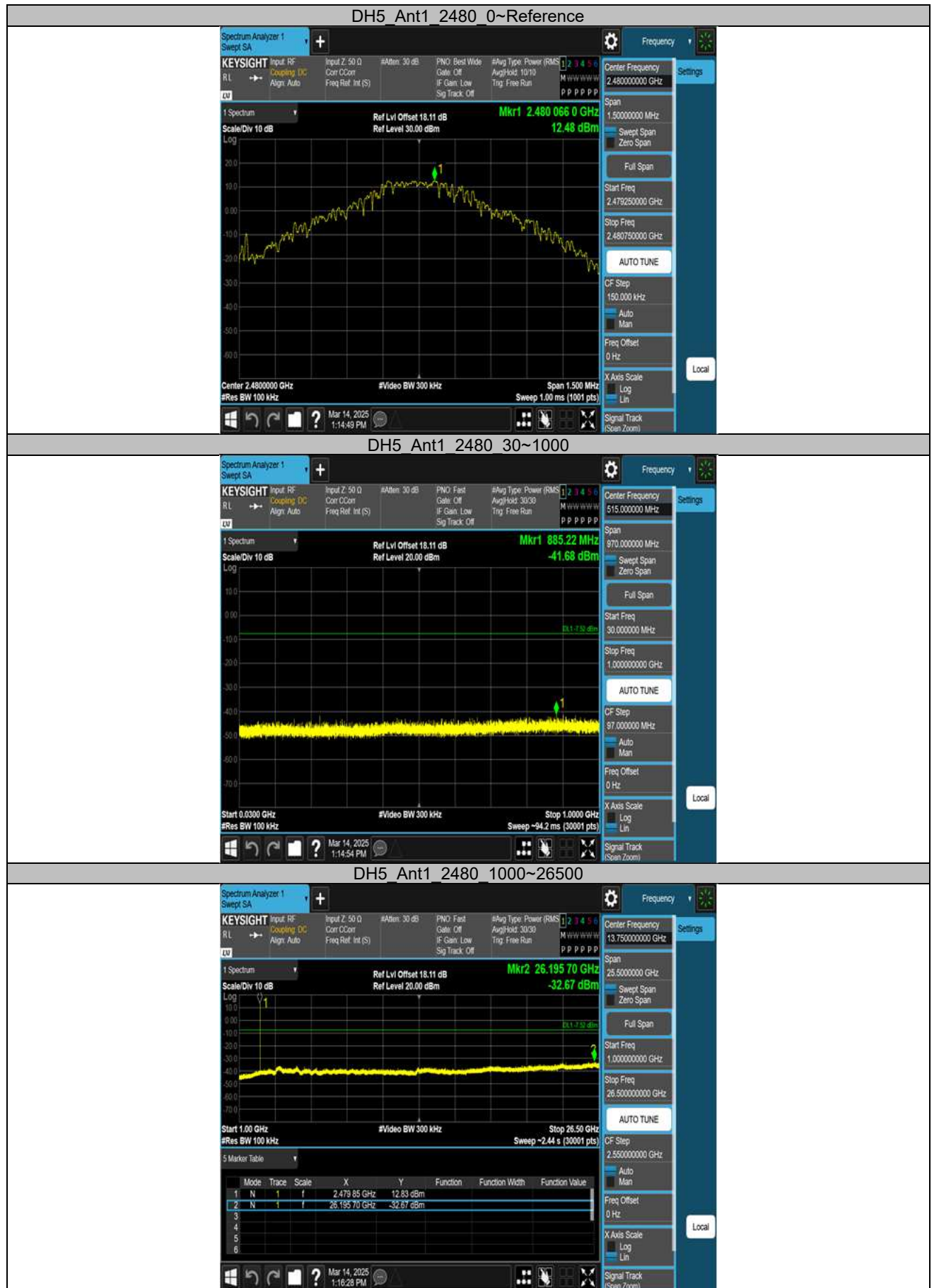


DH5 Ant1 2441 30~1000



DH5 Ant1 2441 1000~26500





3DH5_Ant1_2402_0~Reference



3DH5_Ant1_2402_30~1000



3DH5_Ant1_2402_1000~26500





3DH5_Ant1_2480_0~Reference



3DH5_Ant1_2480_30~1000



3DH5_Ant1_2480_1000~26500



Appendix A.8: Test Results of Radiated Spurious Emissions

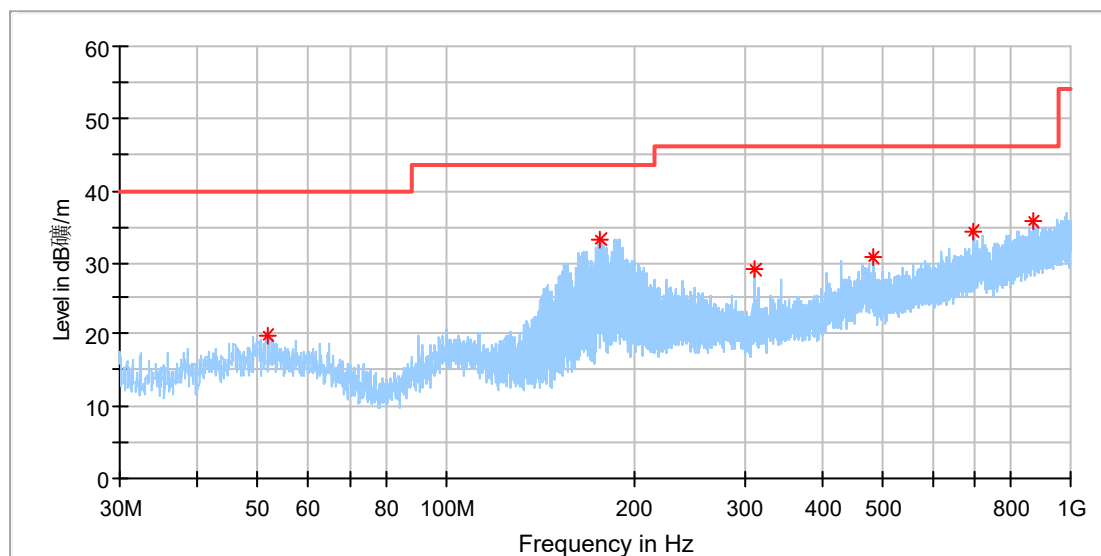
Note:

- 1) This testing was carried out on different modulations, but only the worst case was presented in this report.
- 2) Testing was carried out within frequency range 9kHz to the tenth harmonics. The measurement results below 30MHz and 18GHz - 26.5GHz were greater than 20dB below the limit, so only the radiated spurious emissions from 30MHz to 18GHz were reported.

30 MHz - 1GHz

EUT Information

EUT Name:	DJI Mic 3 Transmitter
Model:	DMT03
Test Mode:	BR_DH5_Mid channel
Order No/Sample No:	168530962/A003910619-005
Test Voltage:	Battery
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

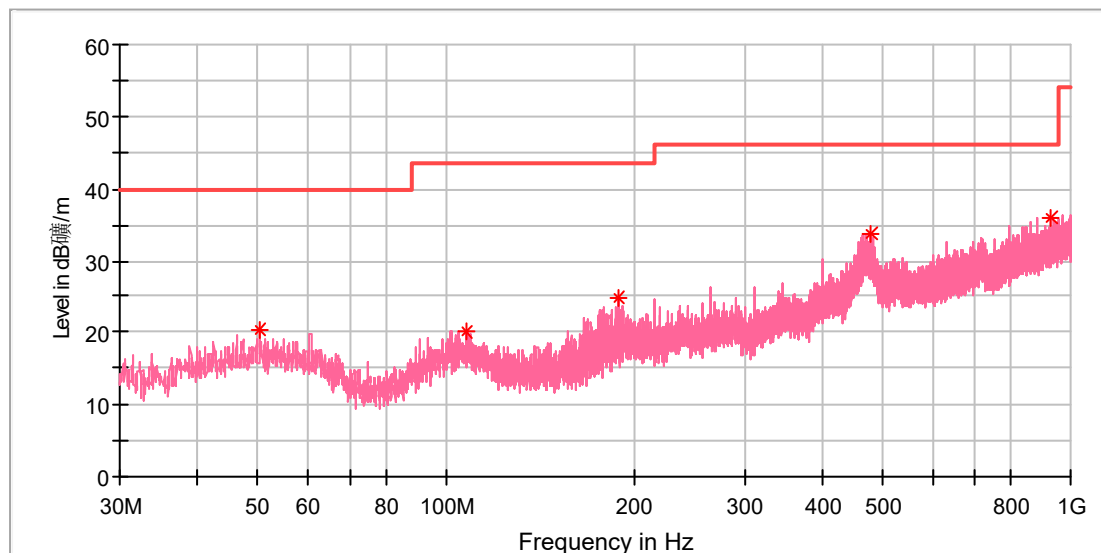
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
51.638462	19.85	40.00	20.15	100.0	H	333.0	-18.4
176.955000	33.34	43.50	10.16	100.0	H	0.0	-20.8
312.008846	28.97	46.00	17.03	100.0	H	169.0	-16.0
483.213846	30.69	46.00	15.31	100.0	H	287.0	-12.1
697.024231	34.27	46.00	11.73	100.0	H	353.0	-8.0
872.034615	35.82	46.00	10.18	100.0	H	80.0	-5.2

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 Mic 3 Transmitter
Model: DMT03
Test Mode: BR_DH5_Mid channel
Order No/Sample No: 168530962/A003910619-005
Test Voltage: Battery
Remark: Temp 24 Humi:50%
Test Standard: FCC 15.247
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)
50.407308	20.26	40.00	19.74	100.0	V	117.0	-18.4
107.376154	20.22	43.50	23.28	100.0	V	265.0	-19.0
188.669615	24.88	43.50	18.62	100.0	V	117.0	-19.8
478.475769	33.66	46.00	12.34	100.0	V	182.0	-12.2
932.249231	36.08	46.00	9.92	100.0	V	15.0	-4.5

Final Result

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

EUT Information

EUT Information

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

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

EUT Information

EUT Information

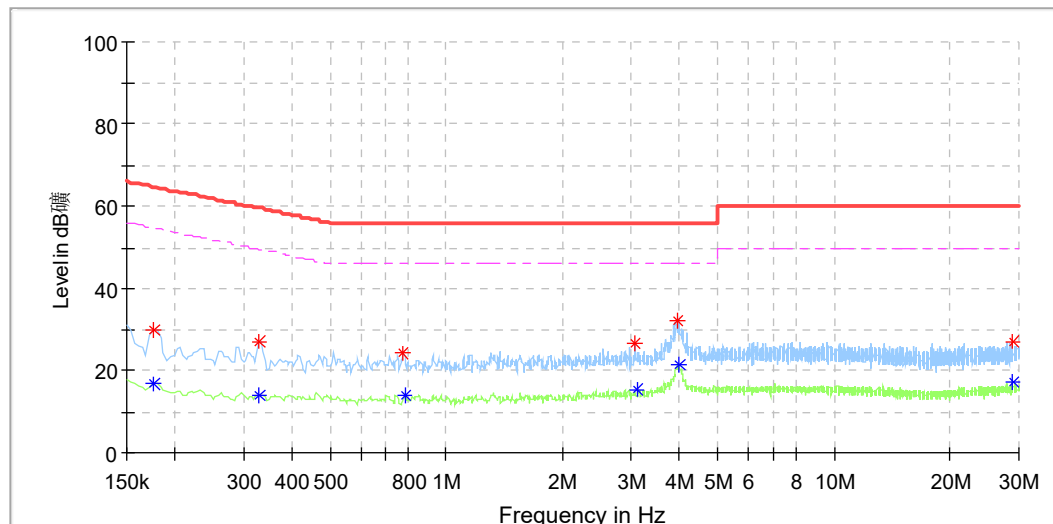
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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EUT Information

Appendix A.10: Test Results of Conducted Emission on AC Mains

EUT Information

EUT Name:	DJI Mic 3 Transmitter
Order Number:	168530962(P01797581)
Model:	DMT03
Test Mode:	Normal working
Test Voltage:	AC 120V60Hz
Test Standard:	FCC Part 15
Test By:/Review By:	Aric Wang / Shower Dai
Tem./Hum./Pressure:	24.0°C/50.4%/101kPa
Remark:	SR3

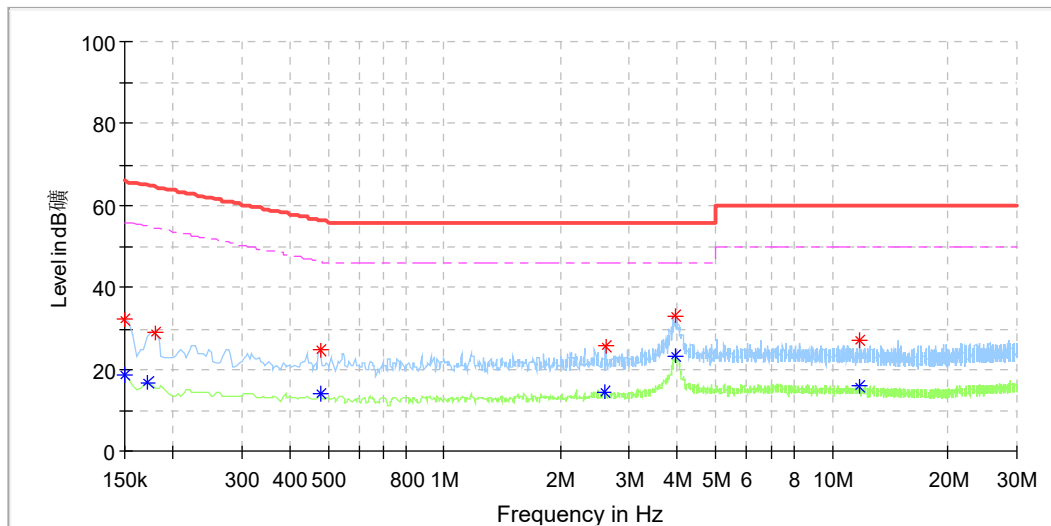


Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.176119	---	16.56	54.67	38.11	L1	9.8
0.176119	29.64	---	64.67	35.03	L1	9.8
0.329100	---	14.12	49.47	35.35	L1	9.8
0.329100	27.01	---	59.47	32.46	L1	9.8
0.776850	24.38	---	56.00	31.62	L1	9.9
0.784313	---	13.74	46.00	32.26	L1	9.9
3.064106	26.70	---	56.00	29.30	L1	10.1
3.120075	---	15.24	46.00	30.76	L1	10.1
3.929756	32.24	---	56.00	23.76	L1	10.1
3.970800	---	21.61	46.00	24.39	L1	10.1
28.880625	27.05	---	60.00	32.95	L1	10.1
28.929131	---	16.98	50.00	33.02	L1	10.1

EUT Information

EUT Name: DJI Mic 3 Transmitter
Order Number: 168530962(P01797581)
Model: DMT03
Test Mode: Normal working
Test Voltage: AC 120V60Hz
Test Standard: FCC Part 15
Test By:/Review By: Aric Wang / Shower Dai
Tem./Hum./Pressure: 24.0°C/50.4%/101kPa
Remark: SR3



Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.150000	---	18.78	56.00	37.22	N	9.7
0.150000	32.07	---	66.00	33.93	N	9.7
0.172388	---	16.56	54.85	38.29	N	9.7
0.179850	28.87	---	64.49	35.62	N	9.7
0.478350	---	13.88	46.37	32.49	N	9.7
0.478350	24.72	---	56.37	31.65	N	9.7
2.575313	---	14.57	46.00	31.43	N	9.8
2.605163	25.57	---	56.00	30.43	N	9.8
3.940950	32.82	---	56.00	23.18	N	9.8
3.940950	---	23.10	46.00	22.90	N	9.8
11.731800	26.93	---	60.00	33.07	N	9.9
11.843738	---	15.90	50.00	34.10	N	9.9

Appendix B: Test Results of Bluetooth Low Energy

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Appendix B.1: Test Results of Conducted Power Spectral Density

Test Result

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-7.80	≤8.00	PASS
		2440	-8.10	≤8.00	PASS
		2480	-8.48	≤8.00	PASS
BLE_2M	Ant1	2402	-10.25	≤8.00	PASS
		2440	-10.37	≤8.00	PASS
		2480	-10.88	≤8.00	PASS

Test Graphs

BLE 1M Ant1 2402



BLE 1M Ant1 2440



BLE 1M Ant1 2480

