



FCC TEST REPORT

**Test report
On Behalf of
WENZHOU BLACK DRAGONFLY UAV TECHNOLOGY CO.,LTD
For
AGRICULTURE DRONE**

**Model No.: C-20, C-30, C-6, C-10, C-16, C-50, C-60, C-80, C-100,
BS-10, BS-20, BS-30, BS-50, BS-60, BS-80, BS-100**

FCC ID: 2AZVM-C20

**Prepared for : WENZHOU BLACK DRAGONFLY UAV TECHNOLOGY CO.,LTD
Floor 12, Building 1, No.355, Binhai 12th Branch Road, Economic and
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**Prepared By : Shenzhen HUAK Testing Technology Co., Ltd.
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Date of Test: Mar. 25, 2021 ~ Apr. 23, 2021

Date of Report: Apr. 23, 2021

Report Number: HK2103250848-1E

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TEST RESULT CERTIFICATION

Applicant's name : WENZHOU BLACK DRAGONFLY UAV TECHNOLOGY CO.,LTD

Address : Floor 12,Building 1,No.355,Binhai 12th Branch Road,Economic and Technological Development Zone,Wenzhou City,Zhejiang Province, China

Manufacture's Name : WENZHOU BLACK DRAGONFLY UAV TECHNOLOGY CO.,LTD

Address : Floor 12,Building 1,No.355,Binhai 12th Branch Road,Economic and Technological Development Zone,Wenzhou City,Zhejiang Province, China

Product description

Trade Mark: BLACK DRAGONFLY

Product name : AGRICULTURE DRONE

Model and/or type reference : C-20, C-30, C-6, C-10, C-16, C-50, C-60, C-80, C-100, BS-10, BS-20, BS-30, BS-50, BS-60, BS-80, BS-100

Standards : FCC Rules and Regulations Part 15 Subpart C Section 15.249
ANSI C63.10: 2013

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Date of Test :

Date (s) of performance of tests : Mar. 25, 2021 ~ Apr. 23, 2021

Date of Issue : Apr. 23, 2021

Test Result : Pass

Testing Engineer : Gary Qian

(Gary Qian)

Technical Manager



Authorized Signatory

(Jason Zhou)

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**** Modified History ****

Revision	Description	Issued Data	Remark
Revision 1.0	Initial Test Report Release	Apr. 23, 2021	Jason Zhou

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1. Test Summary

1.1. Test Procedures And Results

DESCRIPTION OF TEST	SECTION NUMBER	RESULT
CONDUCTED EMISSIONS TEST	15.207	N/A
RADIATED EMISSION TEST	15.249(a) /15.209	COMPLIANT
BAND EDGE	15.249(d)/15.205	COMPLIANT
OCCUPIED BANDWIDTH MEASUREMENT	15.215 (c)	COMPLIANT
ANTENNA REQUIREMENT	15.203	COMPLIANT

1.2. Test Facility

Test Firm : Shenzhen HUAK Testing Technology Co., Ltd.

Address : 1-2/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

1.3. Measurement Uncertainty

Measurement Uncertainty

Conducted Emission Expanded Uncertainty	= 2.71dB, k=2
Radiated emission expanded uncertainty(9kHz-30MHz)	= 3.90dB, k=2
Radiated emission expanded uncertainty(30MHz-1000MHz)	= 3.90dB, k=2
Radiated emission expanded uncertainty(Above 1GHz)	= 4.28dB, k=2



2. General Information

2.1. General Description Of EUT

Equipment	AGRICULTURE DRONE
Model Name	C-20
Serial Model	C-30, C-6, C-10, C-16, C-50, C-60, C-80, C-100, BS-10, BS-20, BS-30, BS-50, BS-60, BS-80, BS-100
Model Difference	All model's the function, software and electric circuit are the same, only with a product color, appearance and model named different. Test sample model: C-20.
FCC ID	2AZVM-C20
Antenna Type	Internal Antenna
Antenna Gain	3dBi
Operation frequency	2420-2482MHz
Number of Channels	63CH
Modulation Type	GFSK
Power Source	DC 44.4V from battery
Power Rating	DC 44.4V from battery
NOTE: This report represents the test data for module 1. For module 2, please refer to the report: HK2103250848-2E	

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2.1.1. Carrier Frequency of Channels

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2420	23	2442	45	2464
2	2421	24	2443	46	2465
3	2422	25	2444	47	2466
4	2423	26	2445	48	2467
5	2424	27	2446	49	2468
6	2425	28	2447	50	2469
7	2426	29	2448	51	2470
8	2427	30	2449	52	2471
9	2428	31	2450	53	2472
10	2429	32	2451	54	2473
11	2430	33	2452	55	2474
12	2431	34	2453	56	2475
13	2432	35	2454	57	2476
14	2433	36	2455	58	2477
15	2434	37	2456	59	2478
16	2435	38	2457	60	2479
17	2436	39	2458	61	2480
18	2437	40	2459	62	2481
19	2438	41	2460	63	2482
20	2439	42	2461		
21	2440	43	2462		
22	2441	44	2463		

2.2. Operation of EUT during testing

Operating Mode

The mode is used: **Transmitting mode**

Low Channel: 2420MHz

Middle Channel: 2451MHz

High Channel: 2482MHz



2.3. Description of Test Setup

Operation of EUT during Radiation testing:



The sample was placed (0.8m below 1GHz, 1.5m above 1GHz) above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages. The worst case is X position.



2.4. Measurement Instruments List

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	L.I.S.N. Artificial Mains Network	R&S	ENV216	HKE-002	Jun. 18, 2020	1 Year
2.	Receiver	R&S	ESCI 7	HKE-010	Jun. 18, 2020	1 Year
3.	RF automatic control unit	Tonscend	JS0806-2	HKE-060	Jun. 18, 2020	1 Year
4.	Spectrum analyzer	R&S	FSP40	HKE-025	Jun. 18, 2020	1 Year
5.	Spectrum analyzer	Agilent	N9020A	HKE-048	Jun. 18, 2020	1 Year
6.	Preamplifier	Schwarzbeck	BBV 9743	HKE-006	Jun. 18, 2020	1 Year
7.	EMI Test Receiver	Rohde & Schwarz	ESCI 7	HKE-010	Jun. 18, 2020	1 Year
8.	Bilog Broadband Antenna	Schwarzbeck	VULB9163	HKE-012	Jun. 18, 2020	1 Year
9.	Loop Antenna	Schwarzbeck	FMZB 1519 B	HKE-014	Jun. 18, 2020	1 Year
10.	Horn Antenna	Schwarzbeck	9120D	HKE-013	Jun. 18, 2020	1 Year
11.	Pre-amplifier	EMCI	EMC051845S E	HKE-015	Jun. 18, 2020	1 Year
12.	Pre-amplifier	Agilent	83051A	HKE-016	Jun. 18, 2020	1 Year
13.	EMI Test Software EZ-EMC	Tonscend	JY3120-B Version	HKE-083	Jun. 18, 2020	N/A
14.	Power Sensor	Agilent	E9300A	HKE-086	Jun. 18, 2020	1 Year
15.	Spectrum analyzer	Agilent	N9020A	HKE-048	Jun. 18, 2020	1 Year
16.	Signal generator	Agilent	N5182A	HKE-029	Jun. 18, 2020	1 Year
17.	Signal Generator	Agilent	83630A	HKE-028	Jun. 18, 2020	1 Year
18.	Shielded room	Shiel Hong	4*3*3	HKE-039	Dec. 17, 2020	3 Year
19.	Hight gain antenna	Schwarzbeck	LB-180400KF	HKE-054	Jun. 18, 2020	1 Year

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3. Conducted Emissions Test

3.1. Conducted Power Line Emission Limit

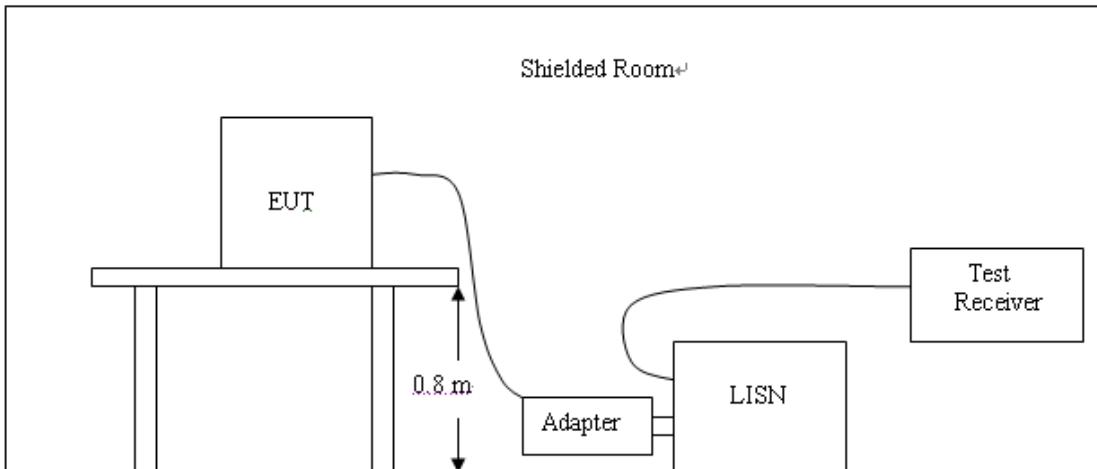
For unintentional device, according to § 15.107(a) Line Conducted Emission Limits is as following.

Frequency (MHz)	Maximum RF Line Voltage (dB μ V)			
	CLASS A		CLASS B	
	Q.P.	Ave.	Q.P.	Ave.
0.15 - 0.50	79	66	66-56*	56-46*
0.50 - 5.00	73	60	56	46
5.00 - 30.0	73	60	60	50

* Decreasing linearly with the logarithm of the frequency

For intentional device, according to §15.207(a) Line Conducted Emission Limit is same as above table.

3.2. Test Setup



3.3. Test Procedure

1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. The EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10.
2. Support equipment, if needed, was placed as per ANSI C63.10.
3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
4. If a EUT received DC power from the USB Port of Notebook PC, the PC's adapter received AC120V/60Hz power through a Line Impedance Stabilization Network (LISN) which supplied power source and was grounded to the ground plane.
5. All support equipments received AC power from a second LISN, if any.
6. The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
7. Analyzer / Receiver scanned from 150 KHz to 30MHz for emissions in each of the test modes.



3.4. Test Result

Not applicable.

Note: EUT power supply by DC Power, so this test item not applicable.



4. Radiated Emission Test

4.1. Radiation Limit

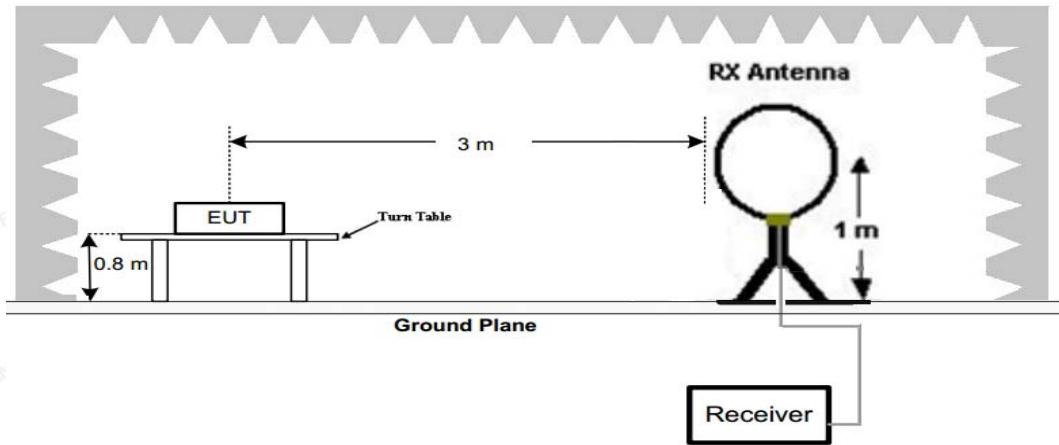
For unintentional device, according to § 15.109(a), except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

Frequency (MHz)	Distance (Meters)	Radiated (dB μ V/m)	Radiated (μ V/m)
0.009-0.490	300	20log 2400/F (kHz)	2400/F (kHz)
0.490-1.705	30	20log 24000/F (kHz)	24000/F (kHz)
1.705-30	30	20log 30	30
30-88	3	40	100
88-216	3	43.5	150
216-960	3	46	200
Above 960	3	54	500

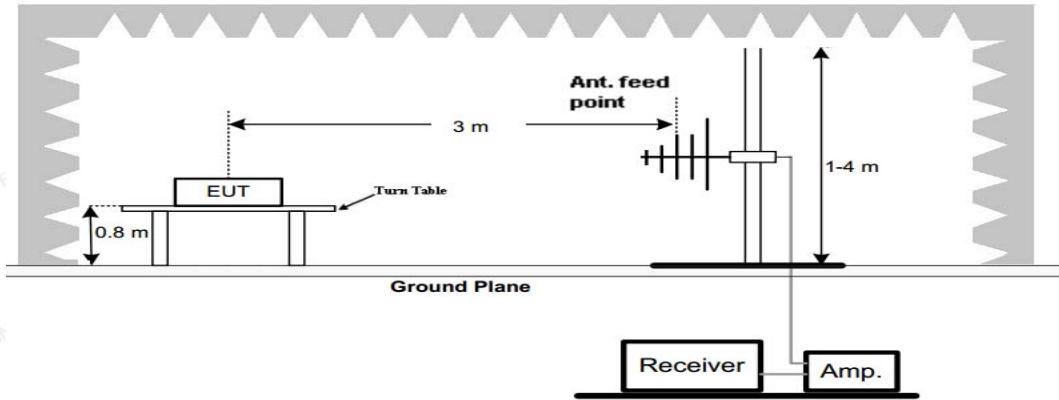
For intentional device, according to § 15.209(a), the general requirement of field strength of radiated emissions from intentional radiators at a distance of 3 meters shall not exceed the above table.

4.2. Test Setup

(1) Radiated Emission Test-Up Frequency Below 30MHz

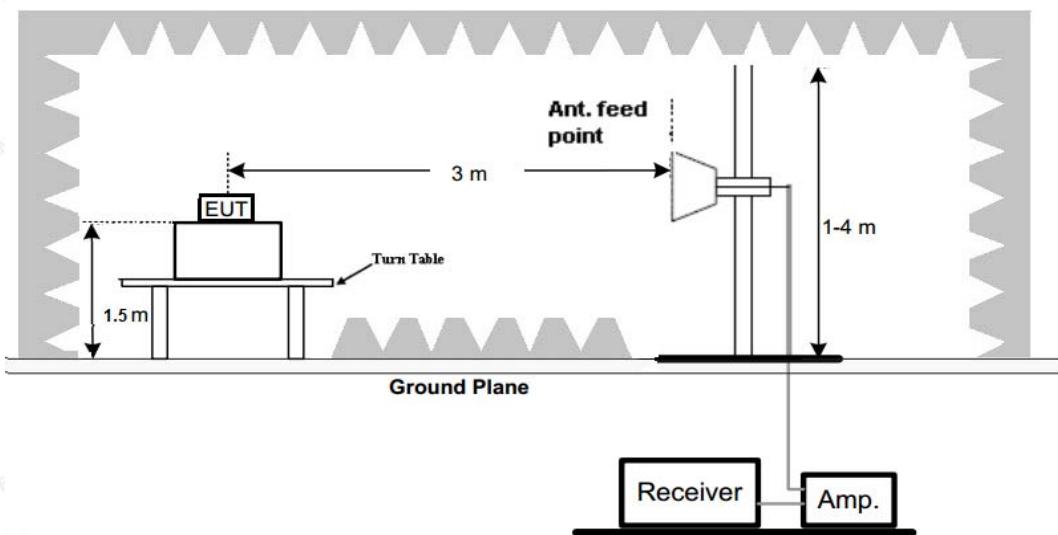


(2) Radiated Emission Test-Up Frequency 30MHz~1GHz





(3) Radiated Emission Test-Up Frequency Above 1GHz



4.3. Test Procedure

1. Below 1GHz measurement the EUT is placed on turntable which is 0.8m above ground plane. And above 1GHz measurement EUT was placed on low permittivity and low tangent turn table which is 1.5m above ground plane.
2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emissions.
4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
6. Repeat above procedures until the measurements for all frequencies are complete.
7. The test frequency range from 9KHz to 25GHz per FCC PART 15.33(a).

Note:

For battery operated equipment, the equipment tests shall be performed using a new battery.

4.4. Test Result

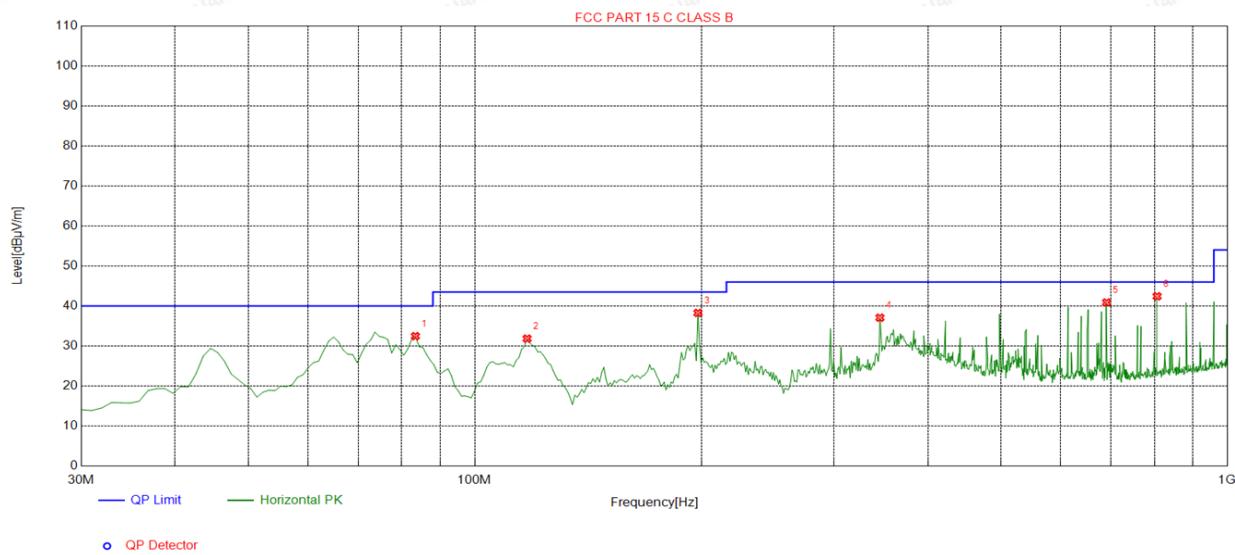
PASS

All the test modes completed for test. The worst case of Radiated Emission is CH 01; the test data of this mode was reported.



Below 1GHz Test Results:

Antenna polarity: H

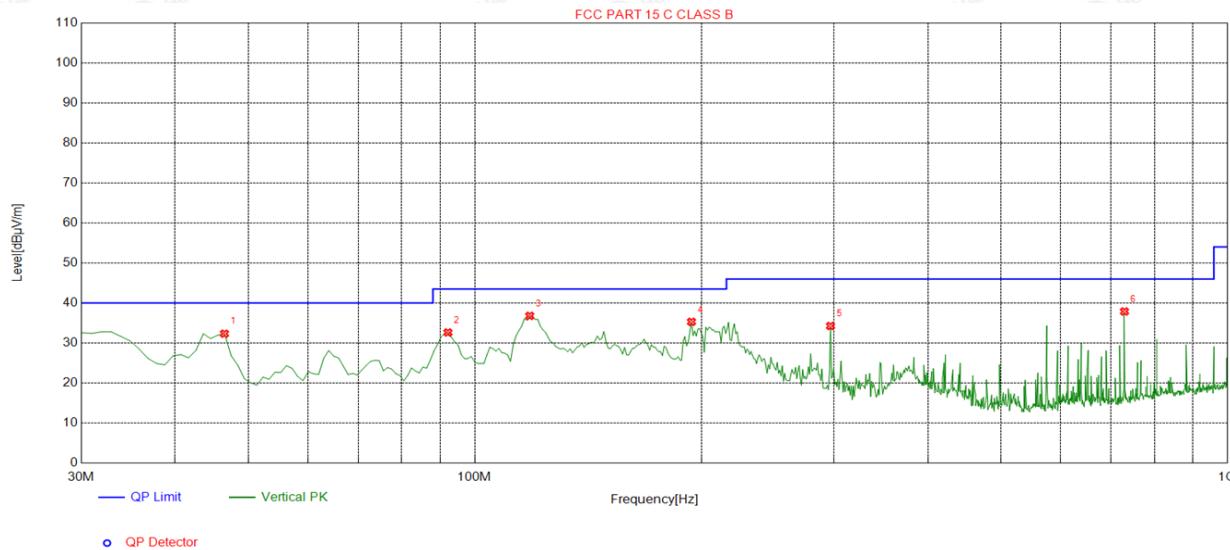


Suspected List									
NO.	Freq. [MHz]	Factor [dB]	Reading [dB μ V/m]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	83.4034	-18.65	51.10	32.45	40.00	7.55	100	253	Horizontal
2	117.3874	-16.66	48.48	31.82	43.50	11.68	100	356	Horizontal
3	197.9780	-15.25	53.51	38.26	43.50	5.24	100	70	Horizontal
4	345.5656	-11.67	48.73	37.06	46.00	8.94	100	99	Horizontal
5	691.2312	-5.19	46.06	40.87	46.00	5.13	100	115	Horizontal
6	806.7768	-3.01	45.42	42.41	46.00	3.59	100	46	Horizontal

Remark: Factor = Cable loss + Antenna factor – Preamplifier; Level = Reading + Factor; Margin = Limit – Level;



Antenna polarity: V



Suspected List									
NO.	Freq. [MHz]	Factor [dB]	Reading [dB μ V/m]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	46.5065	-13.65	45.97	32.32	40.00	7.68	100	62	Vertical
2	92.1421	-16.71	49.32	32.61	43.50	10.89	100	168	Vertical
3	118.3584	-16.83	53.60	36.77	43.50	6.73	100	69	Vertical
4	194.0941	-15.62	50.91	35.29	43.50	8.21	100	265	Vertical
5	297.0170	-12.77	47.01	34.24	46.00	11.76	100	239	Vertical
6	730.0701	-4.54	42.41	37.87	46.00	8.13	100	136	Vertical

Remark: Factor = Cable loss + Antenna factor – Preamplifier; Level = Reading + Factor; Margin = Limit – Level;

Harmonics and Spurious Emissions

Frequency Range (9 kHz-30MHz)

Frequency (MHz)	Level@3m (dB μ V/m)	Limit@3m (dB μ V/m)
--	--	--
--	--	--
--	--	--
--	--	--

Note: 1. Emission Level=Reading+ Cable loss+ Antenna factor-Amp factor.

2. The emission levels are 20 dB below the limit value, which are not reported. It is deemed to comply with the requirement.



Above 1 GHz Test Results:
CH Low (2420MHz)

Horizontal:

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector Type
2420	105.14	-5.84	99.3	114	-14.7	peak
2420	84.32	-5.84	78.48	94	-15.52	AVG
4840	54.33	-3.64	50.69	74	-23.31	peak
4840	42.79	-3.64	39.15	54	-14.85	AVG
7260	52.56	-0.95	51.61	74	-22.39	peak
7260	39.40	-0.95	38.45	54	-15.55	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Vertical:

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector Type
2420	106.89	-5.84	101.05	114	-12.95	peak
2420	79.6	-5.84	73.76	94	-20.24	AVG
4840	53.61	-3.64	49.97	74	-24.03	peak
4840	44.45	-3.64	40.81	54	-13.19	AVG
7260	51.57	-0.95	50.62	74	-23.38	peak
7260	36.43	-0.95	35.48	54	-18.52	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.



CH Middle (2451MHz)

Horizontal:

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector Type
2451	105.06	-5.71	99.35	114	-14.65	peak
2451	75.18	-5.71	69.47	94	-24.53	AVG
4902	54.04	-3.51	50.53	74	-23.47	peak
4902	42.56	-3.51	39.05	54	-14.95	AVG
7353	55.60	-0.82	54.78	74	-19.22	peak
7353	39.56	-0.82	38.74	54	-15.26	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Vertical:

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector Type
2451	100.63	-5.71	94.92	114	-19.08	peak
2451	79.76	-5.71	74.05	94	-19.95	AVG
4902	54.03	-3.51	50.52	74	-23.48	peak
4902	45.65	-3.51	42.14	54	-11.86	AVG
7353	51.94	-0.82	51.12	74	-22.88	peak
7353	39.30	-0.82	38.48	54	-15.52	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.



CH High (2482MHz)

Horizontal:

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector Type
2482	101.54	-5.65	95.89	114	-18.11	peak
2482	80.86	-5.65	75.21	94	-18.79	AVG
4964	53.97	-3.43	50.54	74	-23.46	peak
4964	42.36	-3.43	38.93	54	-15.07	AVG
7446	54.45	-0.75	53.7	74	-20.3	peak
7446	35.41	-0.75	34.66	54	-19.34	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Vertical:

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector Type
2482	101.89	-5.65	96.24	114	-17.76	peak
2482	80.43	-5.65	74.78	94	-19.22	AVG
4964	53.31	-3.43	49.88	74	-24.12	peak
4964	44.34	-3.43	40.91	54	-13.09	AVG
7446	52.84	-0.75	52.09	74	-21.91	peak
7446	36.99	-0.75	36.24	54	-17.76	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Remark :

- (1) Measuring frequencies from 1 GHz to the 25 GHz.
- (2) "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency.
- (3) * denotes emission frequency which appearing within the Restricted Bands specified in provision of 15.205, then the general radiated emission limits in 15.209 apply.
- (4) The emissions are attenuated more than 20dB below the permissible limits are not record in the report.
- (5) The IF bandwidth of EMI Test Receiver between 30MHz to 1GHz was 120KHz, 1 MHz for measuring above 1 GHz, below 30MHz was 10KHz. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for peak measurement with peak detector at frequency above 1GHz. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average measurement with peak detection at frequency above 1GHz.
- (6) When the test results of Peak Detected below the limits of Average Detected, the Average Detected is not need completed. For example: Top Channel at Fundamental 73.16dB μ V/m(PK Value) < 93.98(AV Limit), at harmonic 53.20 dB μ V/m(PK Value) < 54 dB μ V/m(AV Limit), the Average Detected not need to completed.
- (7) All modes of operation were investigated and the worst-case emissions are reported.

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5. Band Edge

5.1. Limits

FCC PART 15.249(d) Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

5.2. Test Procedure

The band edge compliance of RF radiated emission should be measured by following the guidance in ANSI C63.10 with respect to maximizing the emission by rotating the EUT, measuring the emission while the EUT is situated in three orthogonal planes (if appropriate), adjusting the measurement antenna height and polarization etc. Set RBW to 1MHz and VBM to 3MHz to measure the peak field strength and set RBW to 1MHz and VBW to 10Hz to measure the average radiated field strength. The conducted RF band edge was measured by using a spectrum analyzer. Set span wide enough to capture the highest in-band emission and the emission at the band edge. Set RBW to 1MHz and VBW to 3MHz, to measure the conducted peak band edge.



5.3. Test Result

PASS**Radiated Band Edge Test:**

Operation Mode: TX CH Low (2420MHz)

Horizontal (Worst case)

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector Type
2310	57.45	-5.81	51.64	74	-22.36	peak
2310	/	-5.81	/	54	/	AVG
2390	55.03	-5.84	49.19	74	-24.81	peak
2390	/	-5.84	/	54	/	AVG
2400	54.21	-5.84	48.37	74	-25.63	peak
2400	/	-5.84	/	54	/	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Vertical:

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector Type
2310	56.74	-5.81	50.93	74	-23.07	peak
2310	/	-5.81	/	54	/	AVG
2390	54.35	-5.84	48.51	74	-25.49	peak
2390	/	-5.84	/	54	/	AVG
2400	57.48	-5.84	51.64	74	-22.36	peak
2400	/	-5.84	/	54	/	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.



Operation Mode: TX CH High (2482MHz)

Horizontal (Worst case)

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
2483.50	56.55	-5.65	50.9	74	-23.1	peak
2483.50	/	-5.65	/	54	/	AVG
2500.00	54.62	-5.65	48.97	74	-25.03	peak
2500.00	/	-5.65	/	54	/	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
2483.50	56.14	-5.65	50.49	74	-23.51	peak
2483.50	/	-5.65	/	54	/	AVG
2500.00	55.26	-5.65	49.61	74	-24.39	peak
2500.00	/	-5.65	/	54	/	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Remark: All the other emissions not reported were too low to read and deemed to comply with FCC limit.



6. Occupied Bandwidth Measurement

6.1. Test Setup

Same as Radiated Emission Measurement

6.2. Test Procedure

1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. Set EUT as normal operation.
3. Based on ANSI C63.10 section 6.9.2: RBW= 30KHz. VBW= 100 KHz, Span=3MHz.
4. The useful radiated emission from the EUT was detected by the spectrum analyser with peak detector.

6.3. Measurement Equipment Used

Same as Radiated Emission Measurement

6.4. Test Result

PASS

Frequency	20dB Bandwidth (MHz)	Result
2420MHz	1.037	PASS
2451MHz	1.032	PASS
2482MHz	0.968	PASS

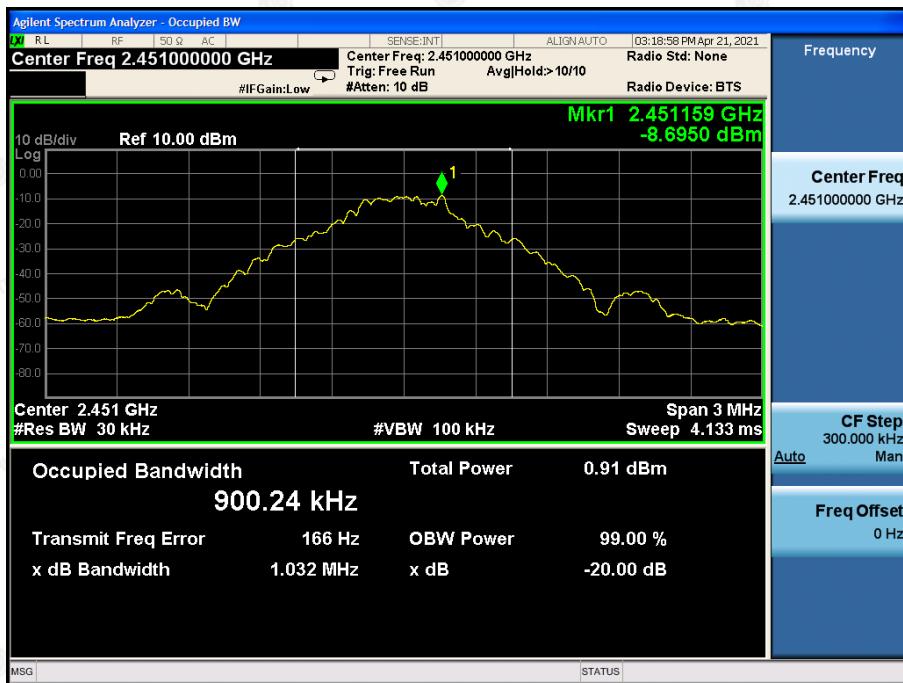
CH: 2420MHz



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CH: 2451MHz



CH: 2482MHz



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7. Antenna Requirement

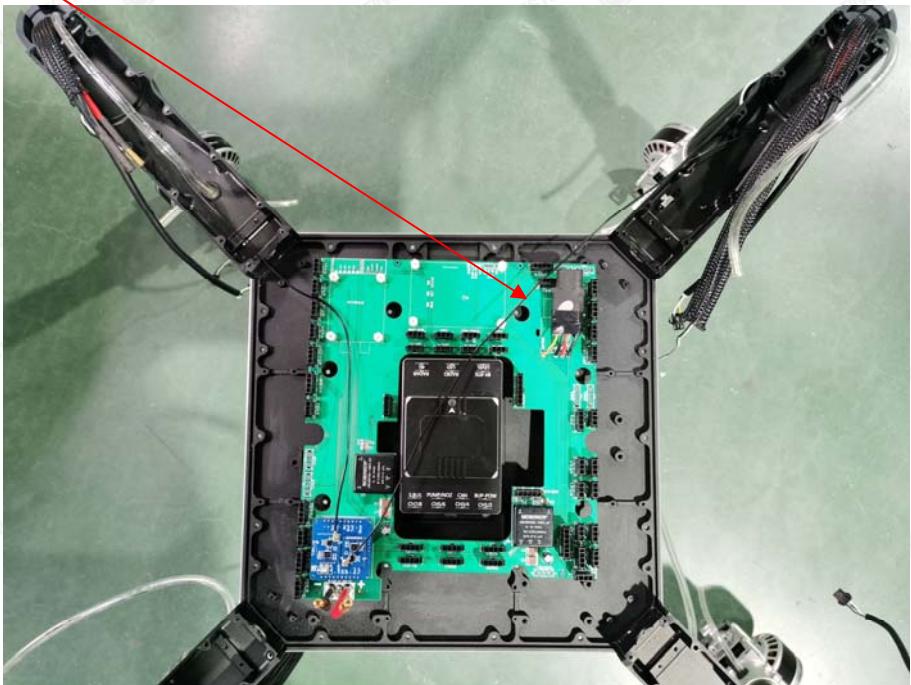
Standard Applicable

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

Antenna Connected Construction

The antenna used in this product is a Internal Antenna which permanently attached. It conforms to the standard requirements. The directional gains of antenna used for transmitting is 3dBi.

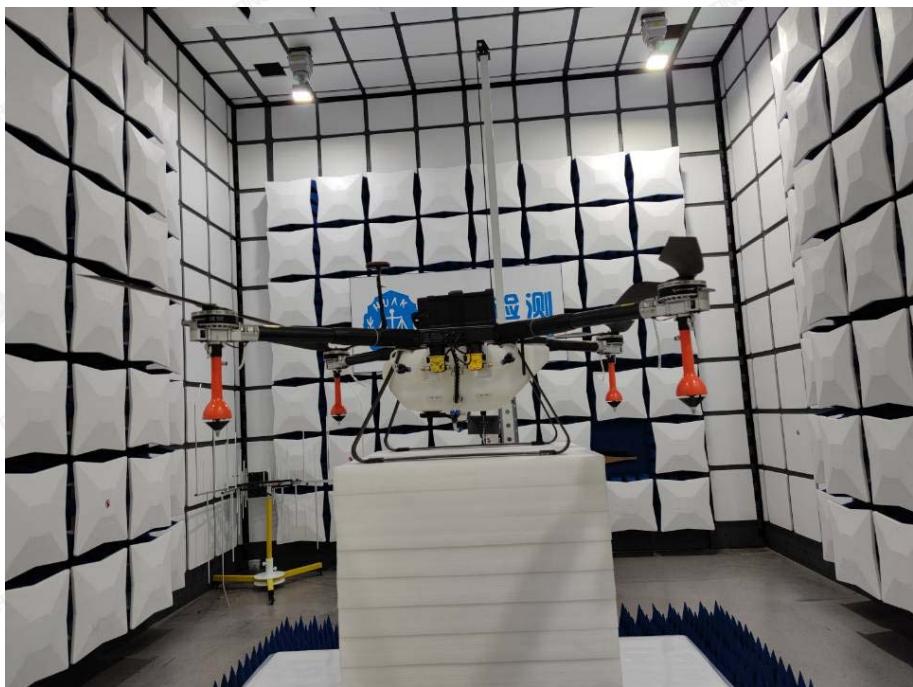
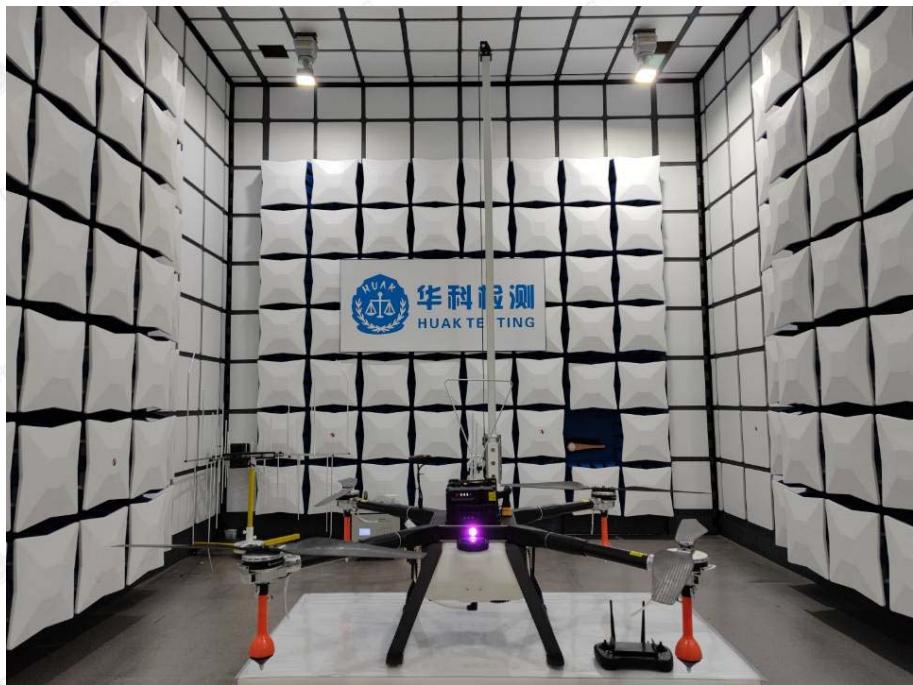
ANTENNA





8. Photograph of Test

Radiated Emission



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**9. Photos of The EUT**

Reference to the report: ANNEX A of external photos and ANNEX B of internal photos.

-----End of test report-----