

**11.3. LIMITS AND MEASUREMENT RESULT**

15.209(a) Limit in the below table has to be followed

<b>Frequencies (MHz)</b>	<b>Field Strength (microvolts/meter)</b>	<b>Measurement Distance (meters)</b>
0.009~0.490	2400/F(kHz)	300
0.490~1.705	24000/F(kHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

Note: All modes were tested for restricted band radiated emission, the test records reported below are the worst result compared to other modes.

**11.4. TEST RESULT**

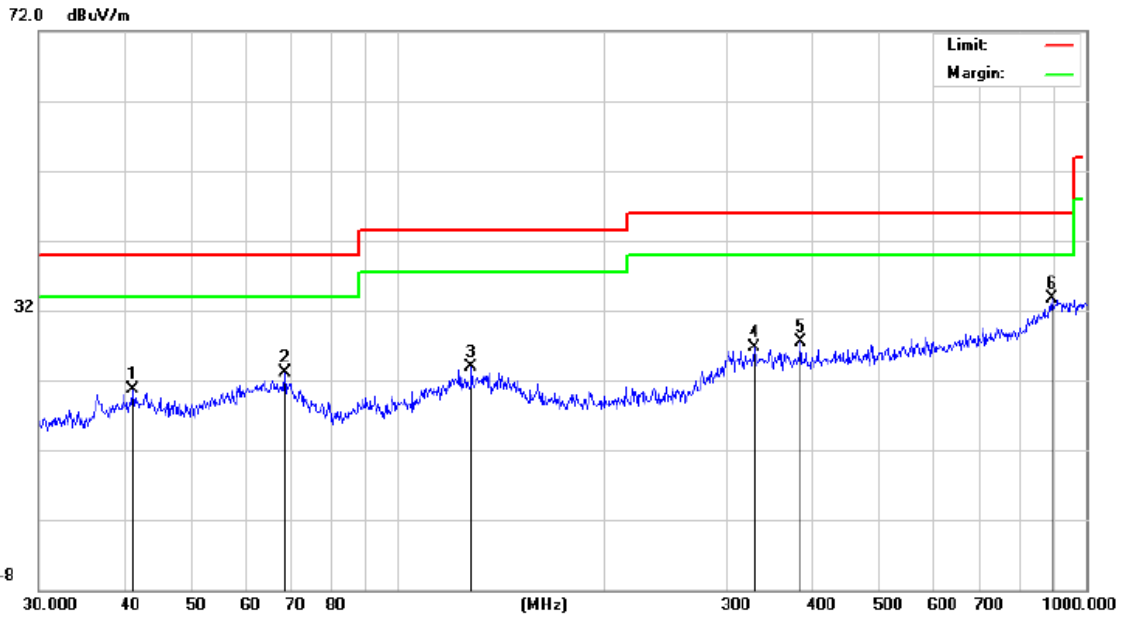
**Radiated emission below 30MHz**

The amplitude of spurious emissions from 9kHz to 30MHz which are attenuated more than 20 dB below the permissible value need not be reported.

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**Radiated emission from 30MHz to 1000MHz**

<b>EUT</b>	Drone	<b>Model Name</b>	X500PRO
<b>Temperature</b>	25°C	<b>Relative Humidity</b>	60%
<b>Pressure</b>	960hPa	<b>Test Voltage</b>	Normal Voltage
<b>Test Mode</b>	802.11a20 5500MHz	<b>Antenna</b>	Horizontal

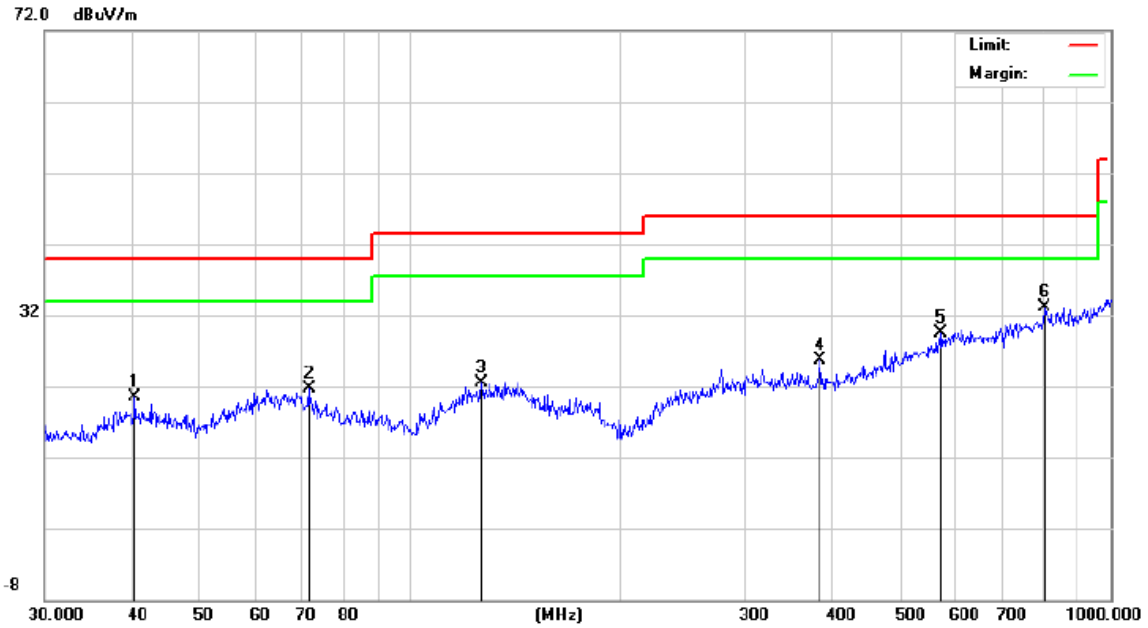


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		41.1320	5.68	14.94	20.62	40.00	-19.38	peak
2		68.3908	6.04	17.01	23.05	40.00	-16.95	peak
3		127.6645	6.11	17.84	23.95	43.50	-19.55	peak
4		329.0390	6.10	20.51	26.61	46.00	-19.39	peak
5		383.9318	6.95	20.64	27.59	46.00	-18.41	peak
6	*	890.7278	6.16	27.55	33.71	46.00	-12.29	peak

**RESULT: PASS**

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<b>EUT</b>	Drone	<b>Model Name</b>	X500PRO
<b>Temperature</b>	25°C	<b>Relative Humidity</b>	60%
<b>Pressure</b>	960hPa	<b>Test Voltage</b>	Normal Voltage
<b>Test Mode</b>	802.11a20 5500MHz	<b>Antenna</b>	Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		40.4172	5.55	15.02	20.57	40.00	-19.43	peak
2		71.5806	4.93	16.77	21.70	40.00	-18.30	peak
3		126.3286	4.43	18.05	22.48	43.50	-21.02	peak
4		383.9318	6.56	19.06	25.62	46.00	-20.38	peak
5		572.6144	5.28	24.14	29.42	46.00	-16.58	peak
6	*	804.6028	5.64	27.42	33.06	46.00	-12.94	peak

**RESULT: PASS**

**Note:** All test channels had been tested. The 802.11a20 of antenna 2 at 5500MHz is the worst case and recorded in the test report.

Factor = Antenna Factor + Cable loss - Amplifier gain, Margin= Limit-Level.

The "Factor" value can be calculated automatically by software of measurement system.

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**Radiated emission above 1GHz**

<b>EUT</b>	Drone	<b>Model Name</b>	X500PRO
<b>Temperature</b>	25°C	<b>Relative Humidity</b>	60%
<b>Pressure</b>	960hPa	<b>Test Voltage</b>	Normal Voltage
<b>Test Mode</b>	802.11a20 5260MHz	<b>Antenna</b>	Horizontal/Vertical

**RADIATED EMISSION ABOVE 1GHZ–Horizontal**

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
10520.044	47.53	9.29	56.82	68.20	-11.38	peak
15780.066	42.19	10.42	52.61	74.00	-21.39	peak
15780.066	32.57	10.42	42.99	54.00	-11.01	AVG

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

**RADIATED EMISSION ABOVE 1GHZ–Vertical**

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
10520.044	47.52	9.29	56.81	68.20	-11.39	peak
15780.066	42.59	10.42	53.01	74.00	-20.99	peak
15780.066	31.57	10.42	41.99	54.00	-12.01	AVG

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

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<b>EUT</b>	Drone	<b>Model Name</b>	X500PRO
<b>Temperature</b>	25°C	<b>Relative Humidity</b>	60%
<b>Pressure</b>	960hPa	<b>Test Voltage</b>	Normal Voltage
<b>Test Mode</b>	802.11a20 5300MHz	<b>Antenna</b>	Horizontal/Vertical

**RADIATED EMISSION ABOVE 1GHZ–Horizontal**

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
10600.044	48.52	9.31	57.83	74.00	-16.17	peak
10600.044	37.54	9.31	46.85	54.00	-7.15	AVG
15900.066	42.16	10.44	52.60	74.00	-21.40	peak
15900.066	31.49	10.44	41.93	54.00	-12.07	AVG

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

**RADIATED EMISSION ABOVE 1GHZ–Vertical**

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
10600.044	49.63	9.31	58.94	74.00	-15.06	peak
10600.044	38.54	9.31	47.85	54.00	-6.15	AVG
15780.066	41.15	10.44	51.59	74.00	-22.41	peak
15780.066	32.57	10.44	43.01	54.00	-10.99	AVG

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

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<b>EUT</b>	Drone	<b>Model Name</b>	X500PRO
<b>Temperature</b>	25°C	<b>Relative Humidity</b>	60%
<b>Pressure</b>	960hPa	<b>Test Voltage</b>	Normal Voltage
<b>Test Mode</b>	802.11a20 5320MHz	<b>Antenna</b>	Horizontal/Vertical

**RADIATED EMISSION ABOVE 1GHZ–Horizontal**

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
10640.044	48.13	9.35	57.48	74.00	-16.52	peak
10640.044	37.54	9.35	46.89	54.00	-7.11	AVG
15960.066	41.05	10.46	51.51	74.00	-22.49	peak
15960.066	32.46	10.46	42.92	54.00	-11.08	AVG

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

**RADIATED EMISSION ABOVE 1GHZ–Vertical**

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
10640.044	47.52	9.35	56.87	74.00	-17.13	peak
10640.044	36.48	9.35	45.83	54.00	-8.17	AVG
15960.066	42.16	10.46	52.62	74.00	-21.38	peak
15960.066	32.58	10.46	43.04	54.00	-10.96	AVG

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

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<b>EUT</b>	Drone	<b>Model Name</b>	X500PRO
<b>Temperature</b>	25°C	<b>Relative Humidity</b>	60%
<b>Pressure</b>	960hPa	<b>Test Voltage</b>	Normal Voltage
<b>Test Mode</b>	802.11a20 5500MHz	<b>Antenna</b>	Horizontal/Vertical

**RADIATED EMISSION ABOVE 1GHZ–Horizontal**

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
11000.044	46.39	9.37	55.76	74.00	-18.24	peak
11000.044	37.54	9.37	46.91	54.00	-7.09	AVG
16500.066	41.05	10.48	51.53	68.20	-16.67	peak

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

**RADIATED EMISSION ABOVE 1GHZ–Vertical**

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
11000.044	47.52	9.37	56.89	74.00	-17.11	peak
11000.044	36.59	9.37	45.96	54.00	-8.04	AVG
16500.066	41.05	10.48	51.53	68.20	-16.67	peak

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

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<b>EUT</b>	Drone	<b>Model Name</b>	X500PRO
<b>Temperature</b>	25°C	<b>Relative Humidity</b>	60%
<b>Pressure</b>	960hPa	<b>Test Voltage</b>	Normal Voltage
<b>Test Mode</b>	802.11a20 5600MHz	<b>Antenna</b>	Horizontal/Vertical

**RADIATED EMISSION ABOVE 1GHZ–Horizontal**

Frequency (MHz)	Meter Reading (dBµV)	Factor (dB)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Value Type
11200.044	48.45	9.38	57.83	74.00	-16.17	peak
11200.044	37.56	9.38	46.94	54.00	-7.06	AVG
16800.066	41.09	10.49	51.58	68.20	-16.62	peak

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

**RADIATED EMISSION ABOVE 1GHZ–Vertical**

Frequency (MHz)	Meter Reading (dBµV)	Factor (dB)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Value Type
11200.044	48.62	9.38	58.00	74.00	-16.00	peak
11200.044	37.54	9.38	46.92	54.00	-7.08	AVG
16800.066	41.05	10.49	51.54	68.20	-16.66	peak

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

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<b>EUT</b>	Drone	<b>Model Name</b>	X500PRO
<b>Temperature</b>	25°C	<b>Relative Humidity</b>	60%
<b>Pressure</b>	960hPa	<b>Test Voltage</b>	Normal Voltage
<b>Test Mode</b>	802.11a20 5700MHz	<b>Antenna</b>	Horizontal/Vertical

**RADIATED EMISSION ABOVE 1GHZ–Horizontal**

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
11400.044	48.63	9.39	58.02	74.00	-15.98	peak
11400.044	37.54	9.39	46.93	54.00	-7.07	AVG
17100.066	41.05	10.49	51.54	68.20	-16.66	peak
<b>Remark:</b>						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

**RADIATED EMISSION ABOVE 1GHZ–Vertical**

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
11400.044	47.85	9.39	57.24	74.00	-16.76	peak
11400.044	36.97	9.39	46.36	54.00	-7.64	AVG
17100.066	41.05	10.49	51.54	68.20	-16.66	peak
<b>Remark:</b>						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

**RESULT: PASS**

**Note:** All test channels had been tested. The 802.11a20 of antenna 2 is the worst case and recorded in the test report.

Other frequencies radiation emission from 1GHz to 40GHz at least have 20dB margin and not recorded in the test report.

Factor = Antenna Factor + Cable loss - Amplifier gain, Margin= Limit-Level.

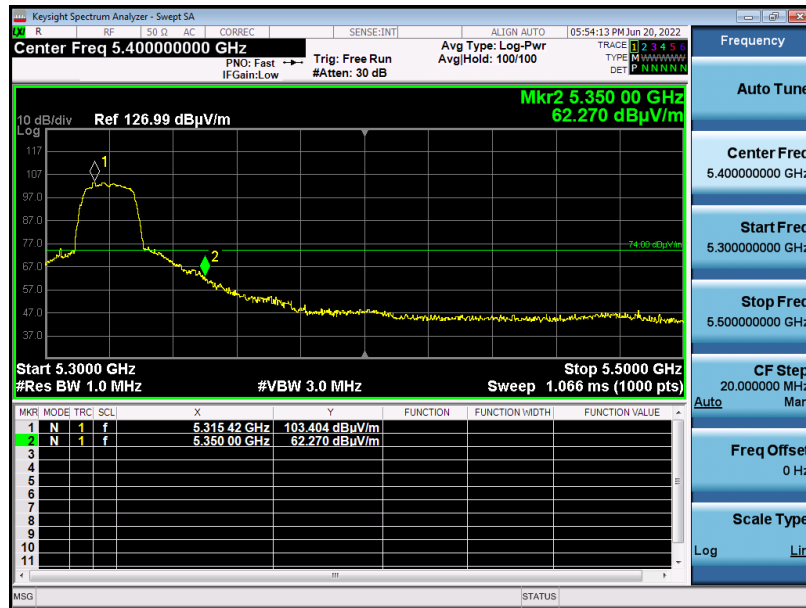
The “Factor” value can be calculated automatically by software of measurement system.

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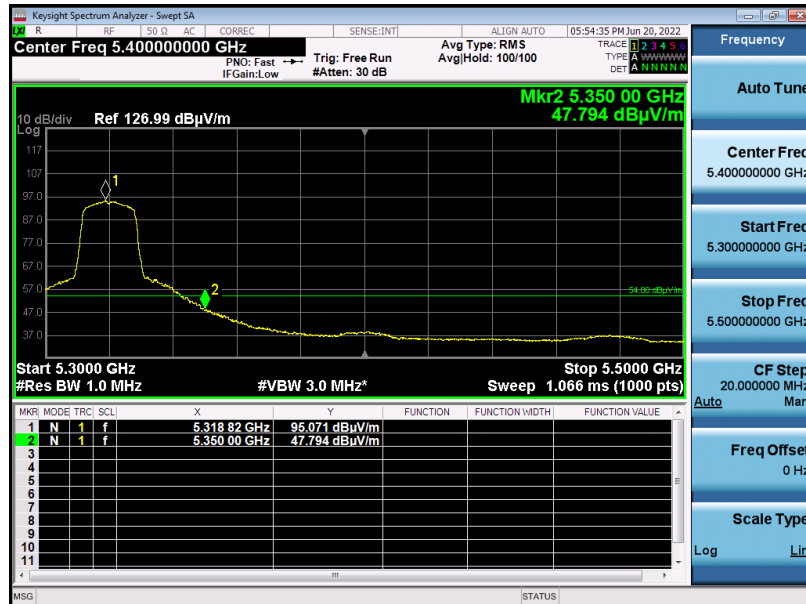
**Test result for band edge emission at restricted bands**

EUT	Drone	Model Name	X500PRO
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5320MHz	Antenna	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement

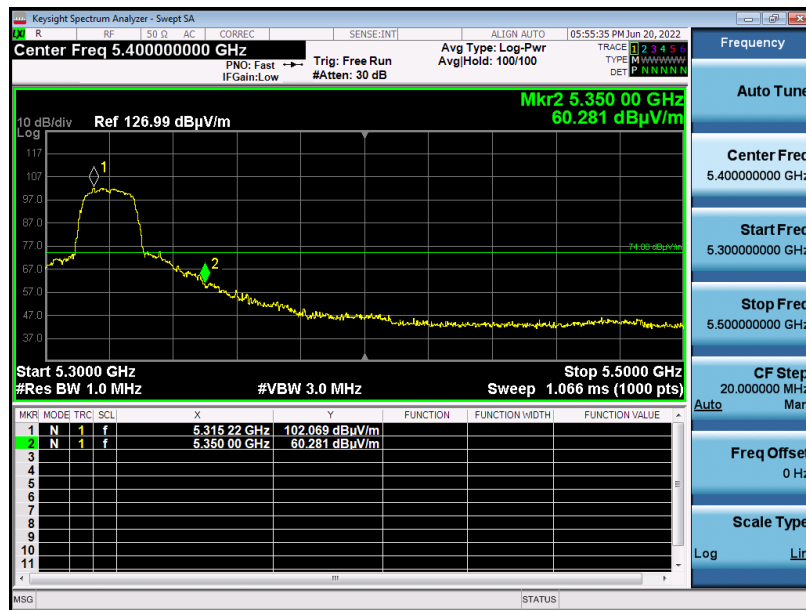


**RESULT: PASS**

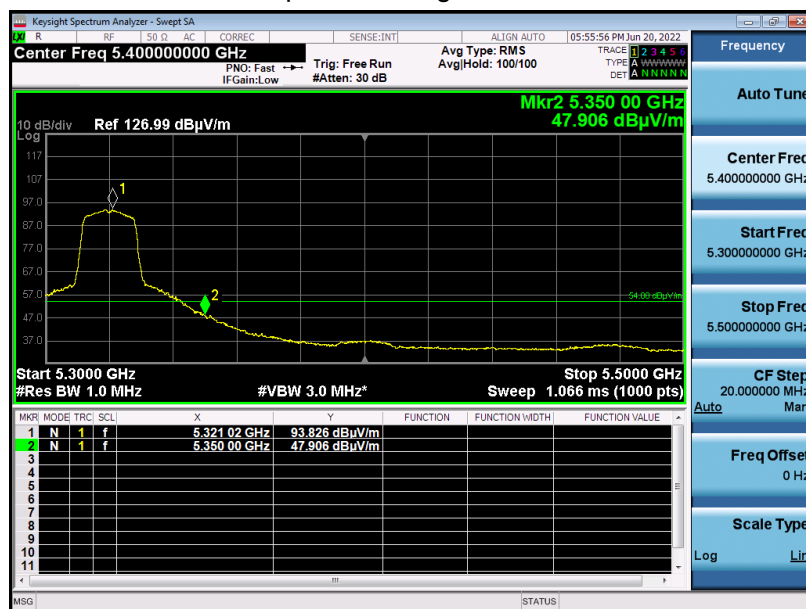
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EUT	Drone	Model Name	X500PRO
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5320MHz	Antenna	Vertical

Test Graph for Peak Measurement



Test Graph for Average Measurement



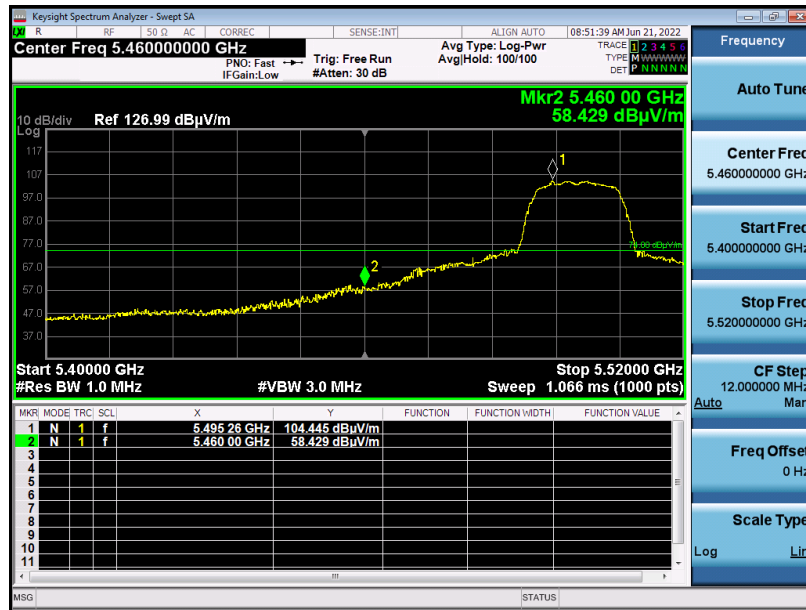
**RESULT: PASS**

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EUT	Drone	Model Name	X500PRO
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5500MHz	Antenna	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement



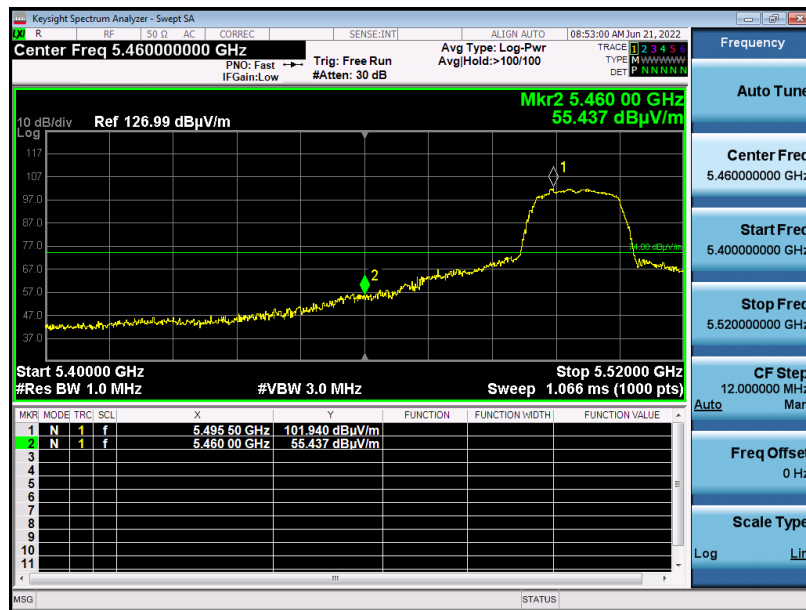
**RESULT: PASS**

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EUT	Drone	Model Name	X500PRO
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5500MHz	Antenna	Vertical

Test Graph for Peak Measurement



Test Graph for Average Measurement



**RESULT: PASS**

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- Note: 1. All the 20MHz bandwidth modulation had been tested, the 802.11a20 of antenna 2 at 5320MHz and 5500MHz was the worst case and record in his test report.
2. The factor had been edited in the “Input Correction” of the Spectrum Analyzer.
3. Only the data of band edge emission at the restricted band 4.5GHz-5.15GHz and 5.35GHz-5.46GHz record in the report. Other restricted band 7.25GHz-7.77GHz were considered as ambient noise. No recording in the test report.

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## 12. LINE CONDUCTED EMISSION TEST

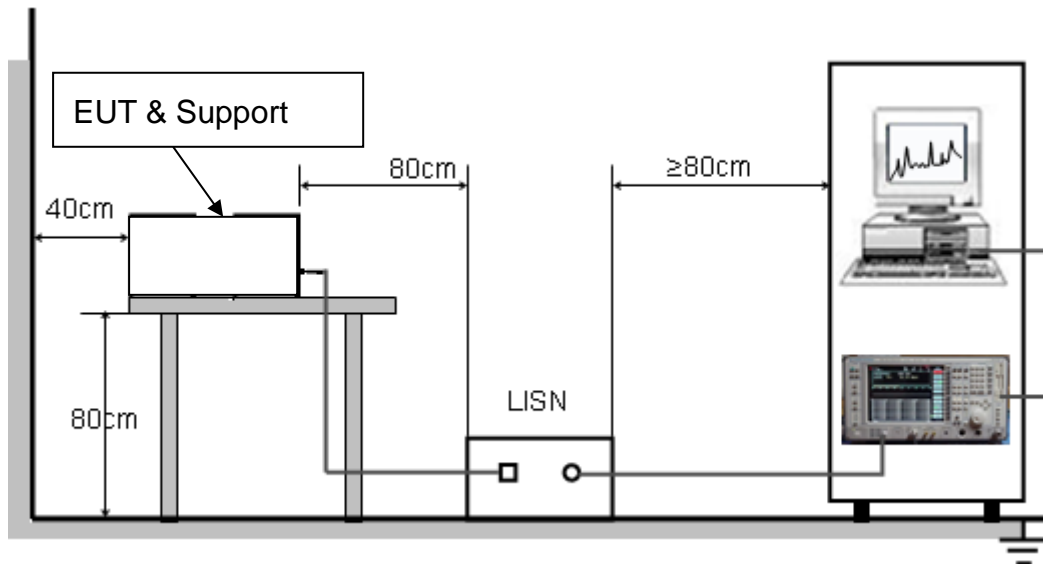
### 12.1. LIMITS OF LINE CONDUCTED EMISSION TEST

Frequency	Maximum RF Line Voltage	
	Q.P (dB $\mu$ V)	Average (dB $\mu$ V)
150kHz~500kHz	66-56	56-46
500kHz~5MHz	56	46
5MHz~30MHz	60	50

Note:

1. The lower limit shall apply at the transition frequency.
2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50MHz.

### 12.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST



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### 12.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST

1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When 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 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
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. All support equipment received AC120V/60Hz power from a LISN, if any.
5. The EUT received charging voltage by adapter which received 120V/60Hz power by a LISN.
6. The 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.
8. During the above scans, the emissions were maximized by cable manipulation.
9. The test mode(s) were scanned during the preliminary test.

Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

### 12.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST

1. EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
2. A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. If EUT emission level was less – 2dB to the A.V. limit in Peak mode, then the emission signal was re-checked using Q.P and Average detector.
3. The test data of the worst case was reported on the Summary Data page.

### 12.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

N/A

Note: The conducted emission tests at AC port are not required for devices which only employ battery power for operation.



## **APPENDIX A: PHOTOGRAPHS OF TEST SETUP**

Refer to the Report No.: AGC12319220501AP01

## **APPENDIX B: PHOTOGRAPHS OF EUT**

Refer to the Report No.: AGC12319220501AP02

**----END OF REPORT----**

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