

Radiated Emissions Test Results Above 1GHz

EUT Name	RC quadcopter	Model Name	HS440G
Temperature	22.6°C	Relative Humidity	51.3%
Pressure	960hPa	Test Voltage	DC 7.6V
Test Mode	802.11a_5200MHz	Antenna	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
10400.042	48.65	9.14	57.79	68.20	-10.41	peak
15600.063	42.55	10.22	52.77	74.00	-21.23	peak
15600.063	32.61	10.22	42.83	54.00	-11.17	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
10400.042	48.13	9.14	57.27	68.20	-10.93	peak
15600.063	42.11	10.22	52.33	74.00	-21.67	peak
15600.063	31.98	10.22	42.20	54.00	-11.80	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Result: Pass

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Radiated Emissions Test Results Above 1GHz

EUT Name	RC quadcopter	Model Name	HS440G
Temperature	22.6°C	Relative Humidity	51.3%
Pressure	960hPa	Test Voltage	DC 7.6V
Test Mode	802.11a_5240MHz	Antenna	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
10480.042	47.53	9.27	56.80	68.20	-11.40	peak
15720.063	41.86	10.38	52.24	74.00	-21.76	peak
15720.063	31.28	10.38	41.66	54.00	-12.34	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
10480.042	47.54	9.27	56.81	68.20	-11.39	peak
15720.063	41.59	10.38	51.97	74.00	-22.03	peak
15720.063	32.65	10.38	43.03	54.00	-10.97	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Result: Pass

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Radiated Emissions Test Results Above 1GHz

EUT Name	RC quadcopter	Model Name	HS440G
Temperature	22.6°C	Relative Humidity	51.3%
Pressure	960hPa	Test Voltage	DC 7.6V
Test Mode	802.11a_5745MHz	Antenna	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
11490.042	47.69	9.42	57.11	74.00	-16.89	peak
11490.042	36.47	9.42	45.89	54.00	-8.11	AVG
17235.063	42.16	10.51	52.67	68.20	-15.53	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
11490.042	48.13	9.42	57.55	74.00	-16.45	peak
11490.042	39.65	9.42	49.07	54.00	-4.93	AVG
17235.063	41.23	10.51	51.74	68.20	-16.46	peak
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Result: Pass

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Radiated Emissions Test Results Above 1GHz

EUT Name	RC quadcopter	Model Name	HS440G
Temperature	22.6°C	Relative Humidity	51.3%
Pressure	960hPa	Test Voltage	DC 7.6V
Test Mode	802.11a_5785MHz	Antenna	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
11570.042	48.74	9.42	58.16	74.00	-15.84	peak
11570.042	38.62	9.42	48.04	54.00	-5.96	AVG
17355.063	41.53	10.51	52.04	68.20	-16.16	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
11570.042	47.19	9.42	56.61	74.00	-17.39	peak
11570.042	36.95	9.42	46.37	54.00	-7.63	AVG
17355.063	42.53	10.51	53.04	68.20	-15.16	peak
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Result: Pass

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Radiated Emissions Test Results Above 1GHz

EUT Name	RC quadcopter	Model Name	HS440G
Temperature	22.6°C	Relative Humidity	51.3%
Pressure	960hPa	Test Voltage	DC 7.6V
Test Mode	802.11a_5825MHz	Antenna	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
11650.042	48.53	9.62	58.15	74.00	-15.85	peak
11650.042	37.42	9.62	47.04	54.00	-6.96	AVG
17475.063	41.26	10.75	52.01	68.20	-16.19	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
11650.042	47.53	9.62	57.15	74.00	-16.85	peak
11650.042	38.14	9.62	47.76	54.00	-6.24	AVG
17475.063	41.49	10.75	52.24	68.20	-15.96	peak
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Result: Pass

Note:

1. The amplitude of other spurious emissions from 1GHz to 25 GHz which are attenuated more than 20 dB below the permissible value need not be reported.
2. Factor = Antenna Factor + Cable loss - Amplifier gain, Margin=Measure Result-Limit.
3. The “Factor” value can be calculated automatically by software of measurement system.
4. All test modes had been pre-tested. Refer to Chapter 5 of the report for details.

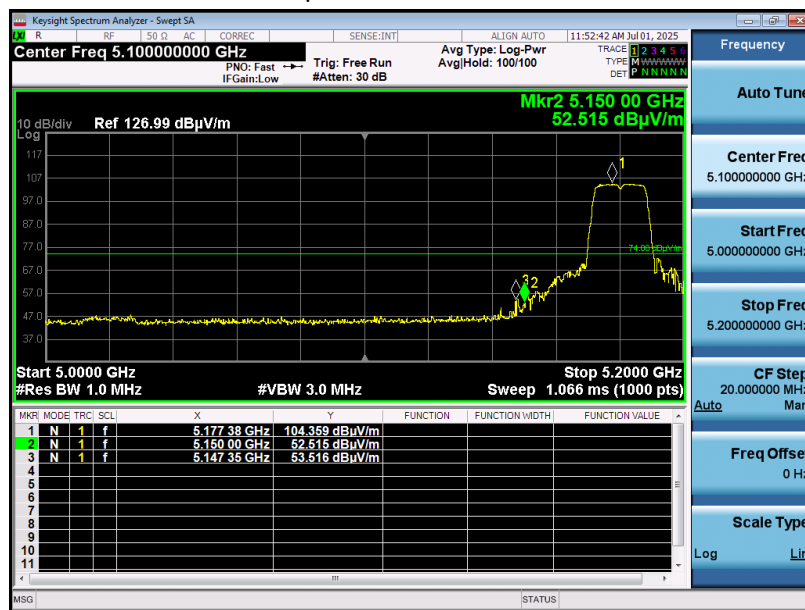
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Chain A

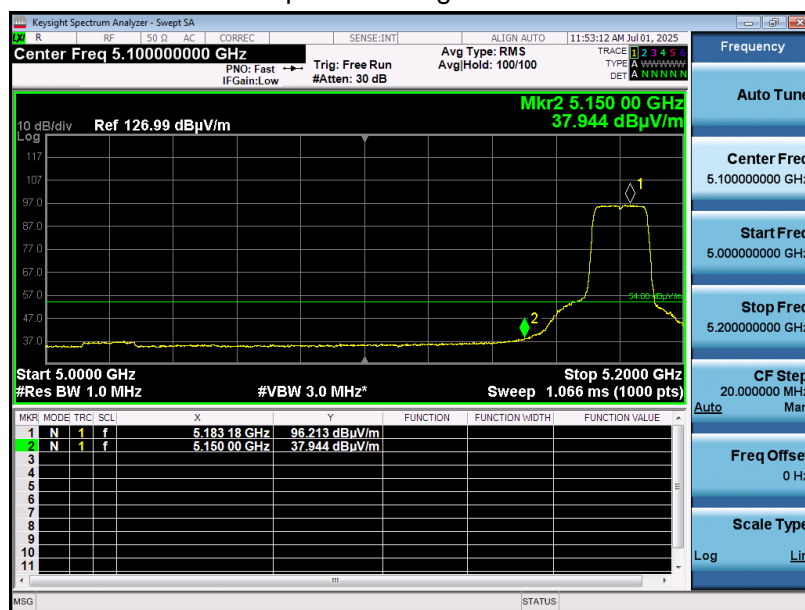
Test Result for Band edge Emission at Restricted bands

EUT Name	RC quadcopter	Model Name	HS440G
Temperature	23.5°C	Relative Humidity	53%
Pressure	960hPa	Test Voltage	DC 7.6V
Test Mode	802.11a_5180MHz	Antenna	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement



Result: Pass

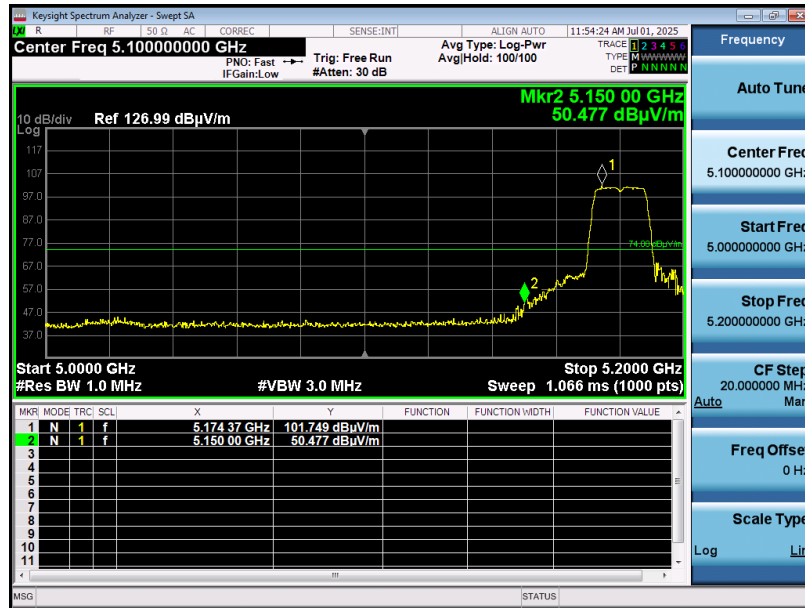
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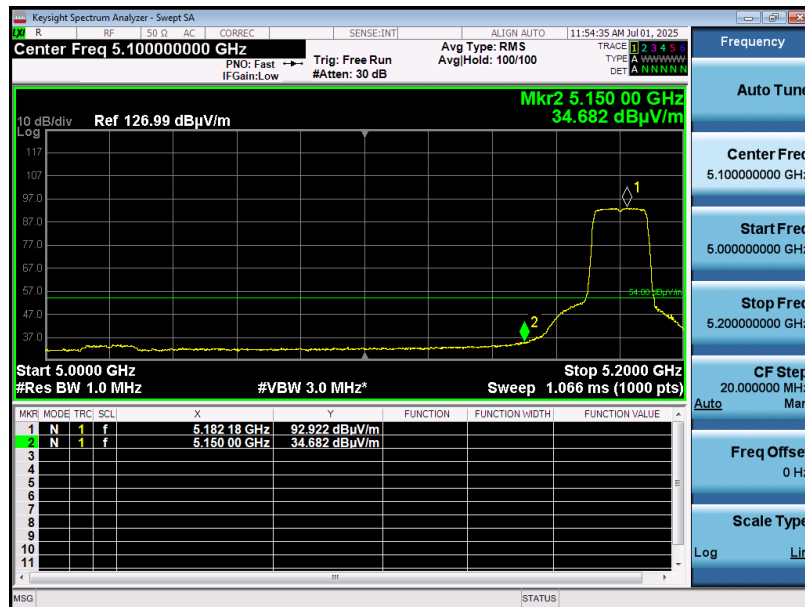
Test Result for Band edge Emission at Restricted bands

EUT Name	RC quadcopter	Model Name	HS440G
Temperature	23.5°C	Relative Humidity	53%
Pressure	960hPa	Test Voltage	DC 7.6V
Test Mode	802.11a_5180MHz	Antenna	Vertical

Test Graph for Peak Measurement



Test Graph for Average Measurement



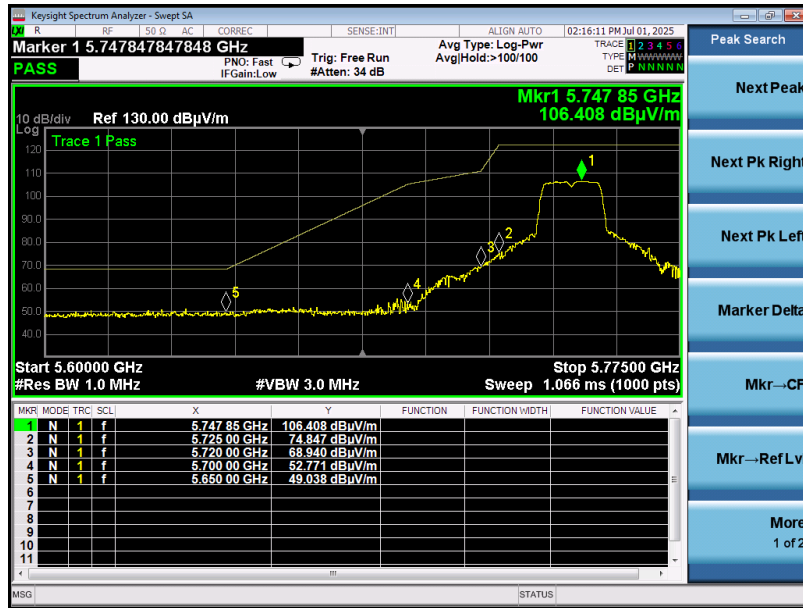
Result: Pass

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Test Result for Band edge Emission at Restricted bands

EUT Name	RC quadcopter	Model Name	HS440G
Temperature	23.5°C	Relative Humidity	53%
Pressure	960hPa	Test Voltage	DC 7.6V
Test Mode	802.11a_5745MHz	Antenna	Horizontal

Test Graph for Peak Measurement



Result: Pass

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Test Result for Band edge Emission at Restricted bands

EUT Name	RC quadcopter	Model Name	HS440G
Temperature	23.5°C	Relative Humidity	53%
Pressure	960hPa	Test Voltage	DC 7.6V
Test Mode	802.11a_5745MHz	Antenna	Vertical

Test Graph for Peak Measurement



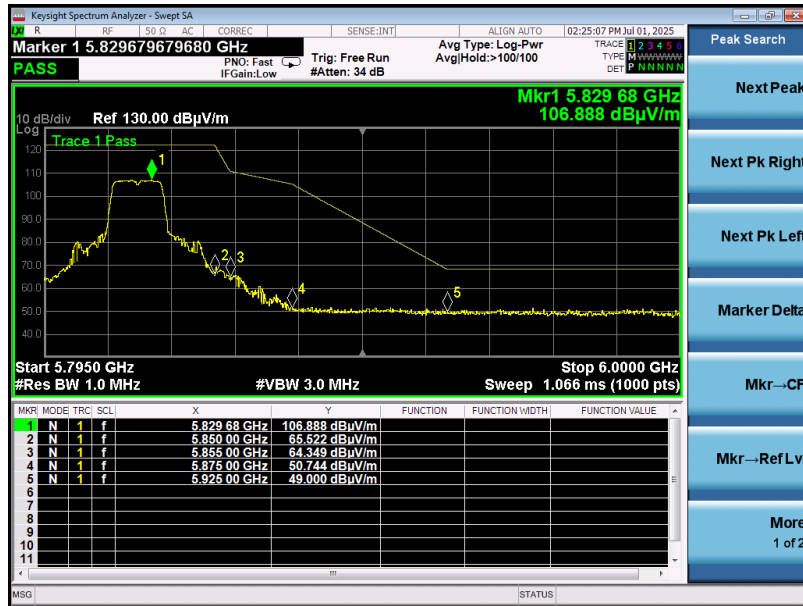
Result: Pass

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Test Result for Band edge Emission at Restricted bands

EUT Name	RC quadcopter	Model Name	HS440G
Temperature	23.5°C	Relative Humidity	53%
Pressure	960hPa	Test Voltage	DC 7.6V
Test Mode	802.11a_5825MHz	Antenna	Horizontal

Test Graph for Peak Measurement



Result: Pass

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Test Result for Band edge Emission at Restricted bands

EUT Name	RC quadcopter	Model Name	HS440G
Temperature	23.5°C	Relative Humidity	53%
Pressure	960hPa	Test Voltage	DC 7.6V
Test Mode	802.11a_5825MHz	Antenna	Vertical

Test Graph for Peak Measurement



Result: Pass

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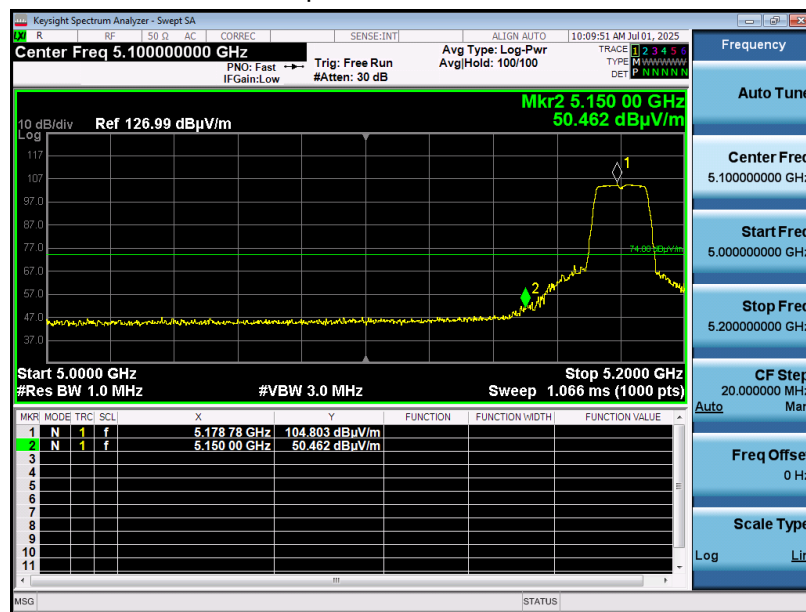
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Chain B

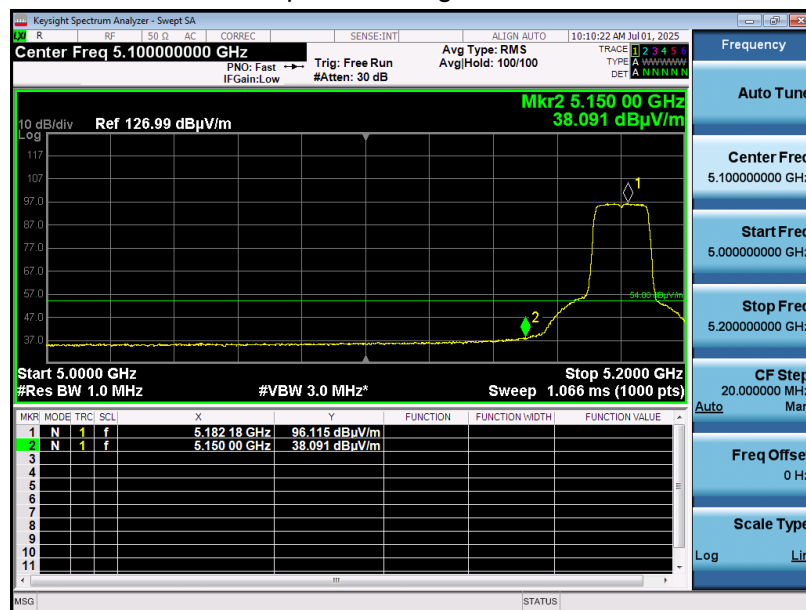
Test Result for Band edge Emission at Restricted bands

EUT Name	RC quadcopter	Model Name	HS440G
Temperature	23.5°C	Relative Humidity	53%
Pressure	960hPa	Test Voltage	DC 7.6V
Test Mode	802.11a_5180MHz	Antenna	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement



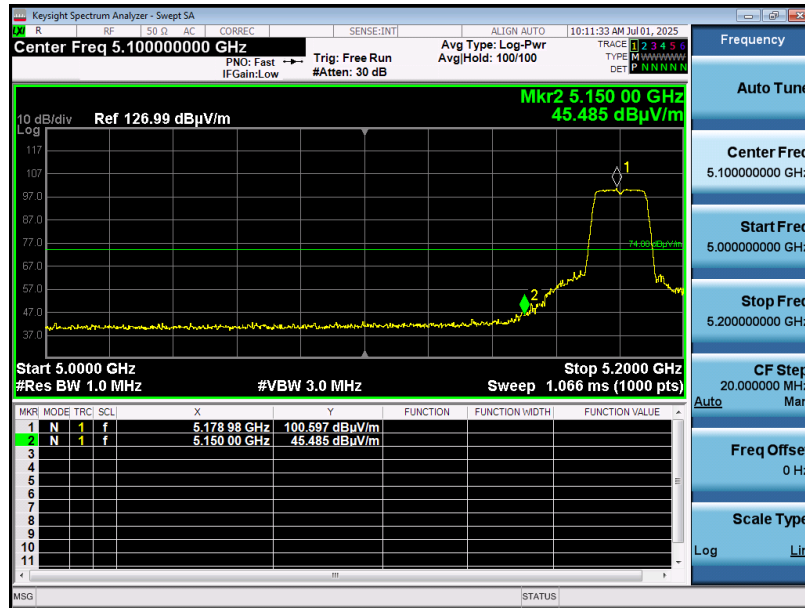
Result: Pass

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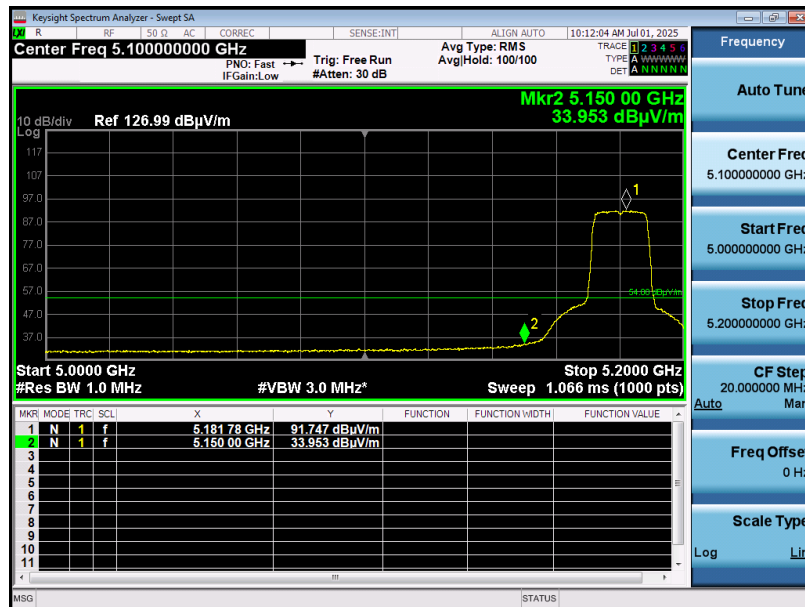
Test Result for Band edge Emission at Restricted bands

EUT Name	RC quadcopter	Model Name	HS440G
Temperature	23.5°C	Relative Humidity	53%
Pressure	960hPa	Test Voltage	DC 7.6V
Test Mode	802.11a_5180MHz	Antenna	Vertical

Test Graph for Peak Measurement



Test Graph for Average Measurement



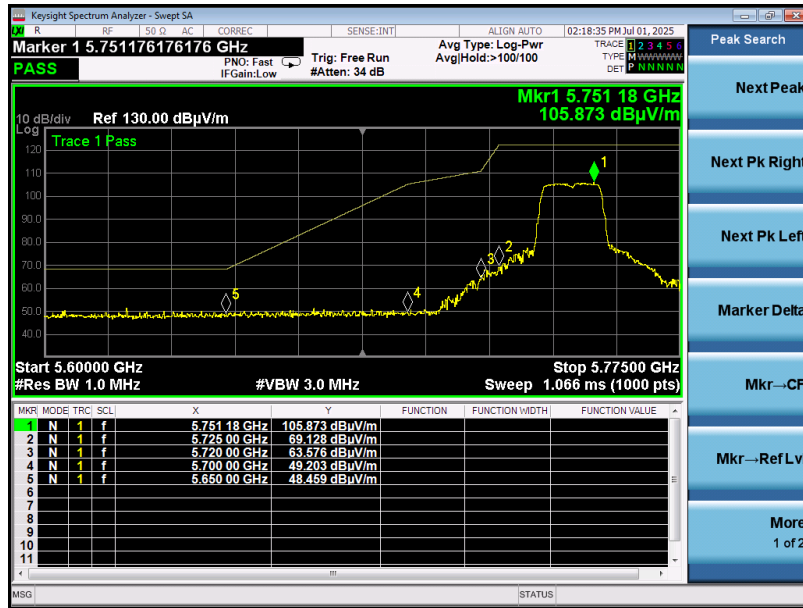
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Test Result for Band edge Emission at Restricted bands

EUT Name	RC quadcopter	Model Name	HS440G
Temperature	23.5°C	Relative Humidity	53%
Pressure	960hPa	Test Voltage	DC 7.6V
Test Mode	802.11a_5745MHz	Antenna	Horizontal

Test Graph for Peak Measurement



Result: Pass

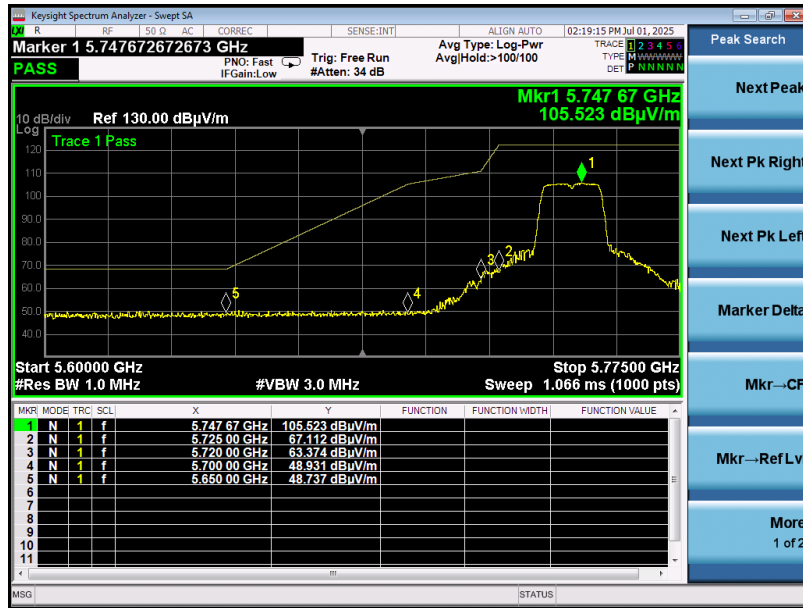
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Test Result for Band edge Emission at Restricted bands

EUT Name	RC quadcopter	Model Name	HS440G
Temperature	23.5°C	Relative Humidity	53%
Pressure	960hPa	Test Voltage	DC 7.6V
Test Mode	802.11a_5745MHz	Antenna	Vertical

Test Graph for Peak Measurement



Result: Pass

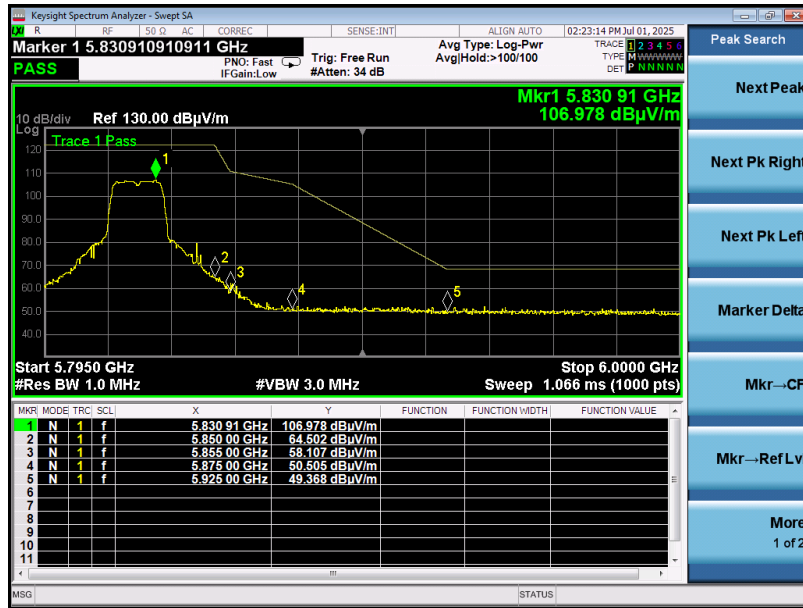
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Test Result for Band edge Emission at Restricted bands

EUT Name	RC quadcopter	Model Name	HS440G
Temperature	23.5°C	Relative Humidity	53%
Pressure	960hPa	Test Voltage	DC 7.6V
Test Mode	802.11a_5825MHz	Antenna	Horizontal

Test Graph for Peak Measurement



Result: Pass

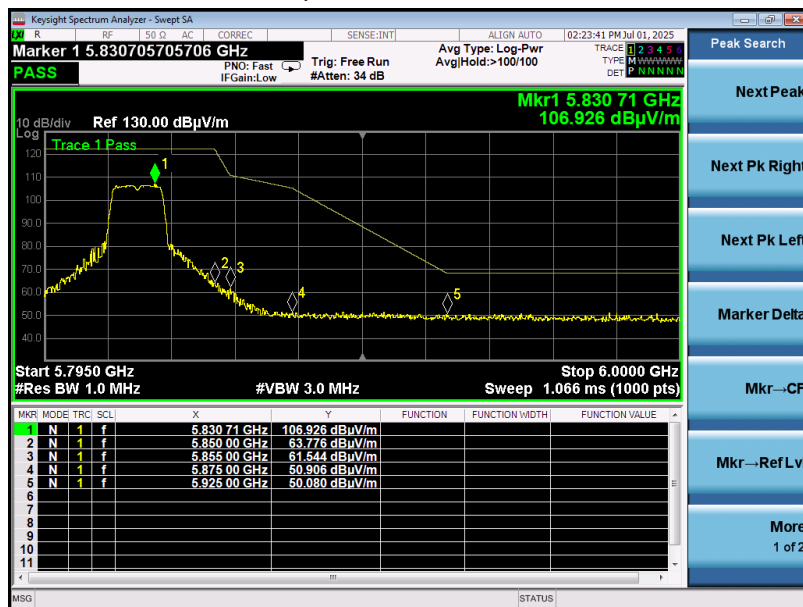
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Test Result for Band edge Emission at Restricted bands

EUT Name	RC quadcopter	Model Name	HS440G
Temperature	23.5°C	Relative Humidity	53%
Pressure	960hPa	Test Voltage	DC 7.6V
Test Mode	802.11a_5825MHz	Antenna	Vertical

Test Graph for Peak Measurement



Result: Pass

Note:

1. The factor had been edited in the “Input Correction” of the Spectrum Analyzer.
2. All test modes had been pre-tested, Refer to Chapter 5 of the report for details.

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12. AC Power Line Conducted Emission Test

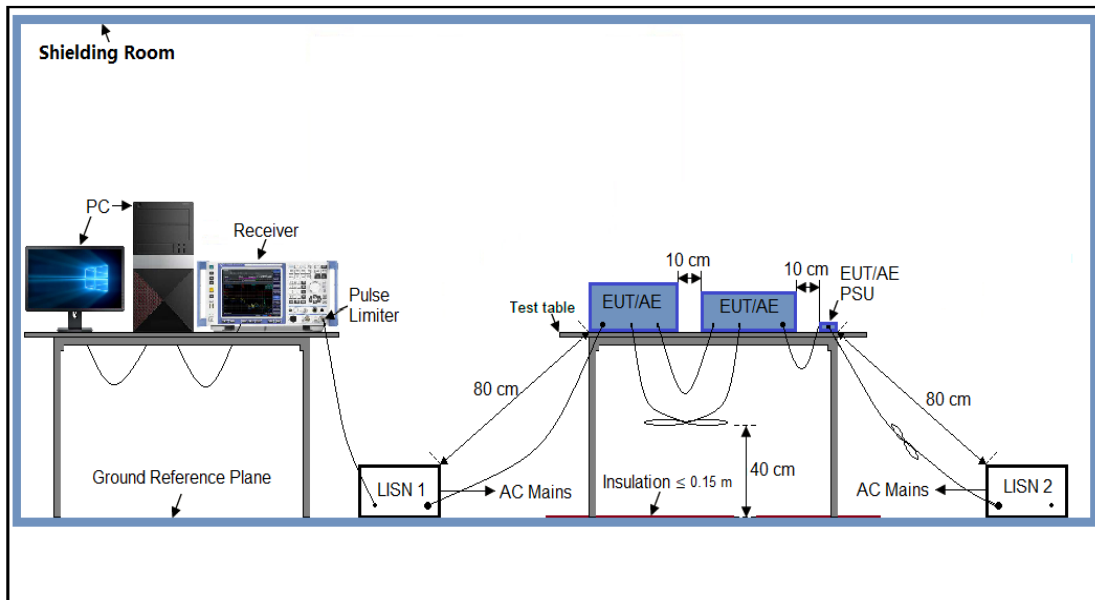
12.1 Measurement limit

Frequency	Maximum RF Line Voltage	
	Q.P (dBμV)	Average (dBμV)
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 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

Not applicable

Note: This product cannot be connected to an AC power supply

Appendix I: Photographs of Test Setup

Refer to the Report No.: AGC15705250439AP02

Appendix II: Photographs of EUT

Refer to the Report No.: AGC15705250439AP03

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----End of Report----

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