



X2D EMI/EMC Test Plans and Reports

Skydio, Inc
3000 Clearview Way
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EMI/EMC TEST PLANS AND REPORTS

Scope

Skydio tested X2D UAS to ensure that it is not harmful to the operators as well as not susceptible to normal electromagnetic interference.

Test Standards

EMI / EMC

An X2D UAV Beta Prototype was tested for unintentional electromagnetic emission on 1/24/2020 against FCC Part 15, Class A. The UAV was tested at:

Electro Magnetic Test, Inc.
1547 Plymouth Street
Mountain View, CA 94043

All testing was completed on a single UAV - Defiant014. The UAV was strapped down during the testing, allowing for all systems to be run during testing.

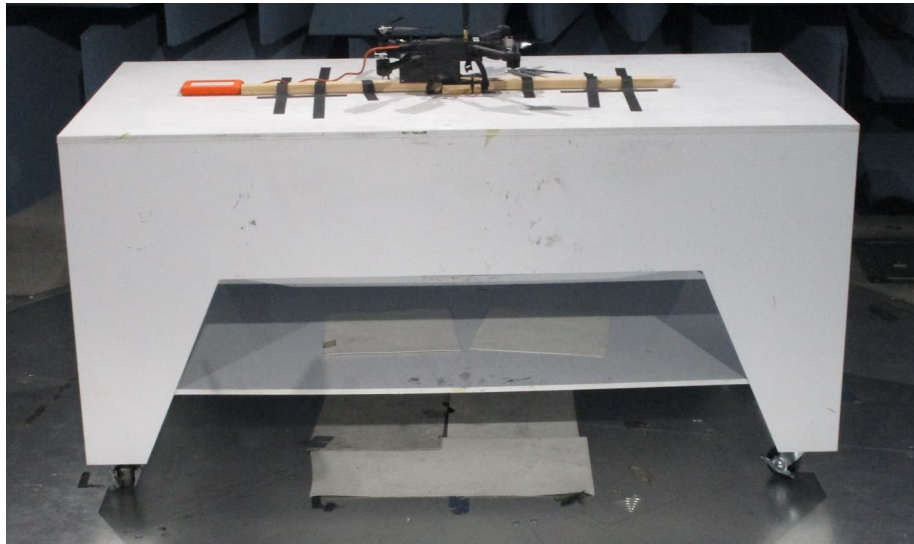


Figure 1 – X2D strapped down

Test Results

Two tests were run (a low frequency and high-frequency scan) to check the full spectrum of potential emissions, with the UAV passing all tests.

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Low-Frequency Scan

Test Information:

Test Engineer: Chinmay Shendurnikar
Test Start Time: 1/24/2020 08:53 AM PST
Operating Conditions: Normal
Serial Number: Defiant014

Test Results

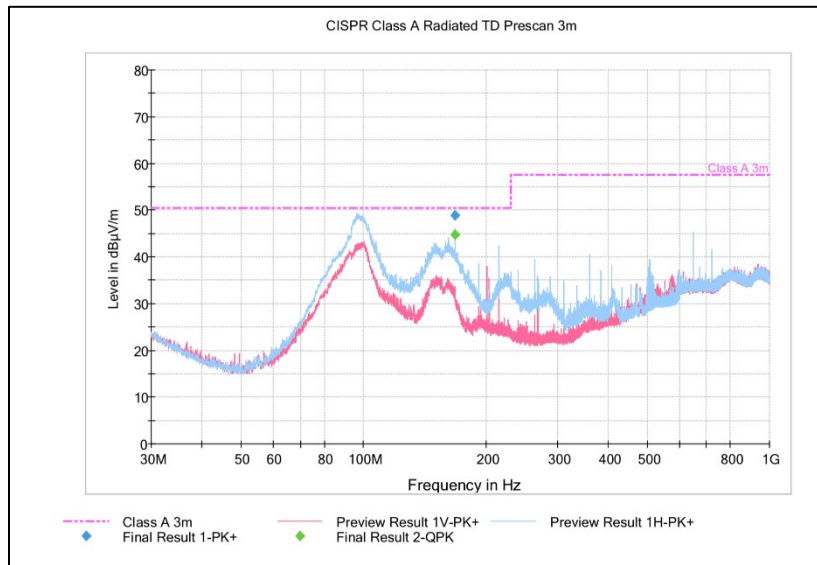


Figure 2 - CISPR Class A Radiated TD Prescan 3m

Final Result 1								
Frequency (MHz)	MaxPeak (dBµV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
168.000000	48.9	192.0	H	231.0	15.4	1.60	50.50	

Final Result 2								
Frequency (MHz)	QuasiPeak (dBµV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
168.000000	44.8	192.0	H	231.0	15.4	5.70	50.50	

Figure 3 - Final Results

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High-Frequency Scan

Test Information:

Test Engineer: Chinmay Shendurnikar
Test Start Time: 1/24/2020 11:01 AM PST
Operating Conditions: Normal
Serial Number: Defiant014

Test Results

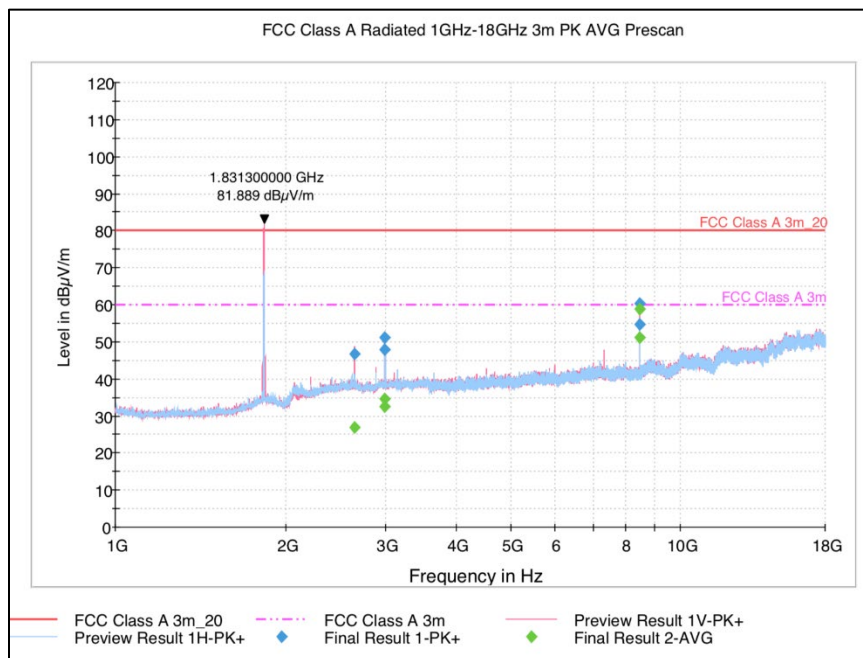


Figure 4 - FCC Class A 3m PK AVG Prescan

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Final Result 1								
Frequency (MHz)	MaxPeak (dB μ V/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dB μ V/m)	Comment
2647.866667	46.8	217.0	V	75.0	2.2	33.20	80.00	
2993.533333	47.8	132.0	H	276.0	2.9	32.20	80.00	
2994.100000	51.1	100.0	V	248.0	2.9	28.90	80.00	
8441.466667	54.7	100.0	H	11.0	11.3	25.30	80.00	
8442.033333	60.4	109.0	V	103.0	11.3	19.60	80.00	

Final Result 2								
Frequency (MHz)	Average (dB μ V/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dB μ V/m)	Comment
2647.866667	27.0	217.0	V	75.0	2.2	33.00	60.00	
2993.533333	32.4	132.0	H	276.0	2.9	27.60	60.00	
2994.100000	34.7	100.0	V	248.0	2.9	25.30	60.00	
8441.466667	51.0	100.0	H	11.0	11.3	9.00	60.00	
8442.033333	58.9	109.0	V	103.0	11.3	1.10	60.00	

Figure 5 - Test Results