

**ELECTRO MAGNETIC TEST, INC.**

1547 Plymouth Street, Mountain View, CA 94043 Tel: (650) 965-4000 Fax: (650) 965-3000

*FCC PART 15.407, SUBPART E
IC RSS-247
TEST REPORT*

*for**the*

Drone

Model: SDRC2V1

Prepared for

Skydio, Inc.
114 Hazel Avenue
Redwood City, California, 94605

Prepared by: _____

Andreas Davidsson

Approved by: _____

Kevin Bothmann

Electro Magnetic Test, Inc.
1547 Plymouth Street
Mountain View, California 94043
(650) 965-4000

Date: November 21, 2019

	REPORT BODY	APPENDICES				TOTAL
		A	B	C	D	
PAGES	31	47	3	2	3	86

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GENERAL REPORT SUMMARY

This electromagnetic emission test report is generated by Electro Magnetic Test, Inc., which is an independent testing and consulting firm. The test report is based on testing performed Electro Magnetic Test, Inc. personnel according to the measurement procedure described in the test specification given below and in the "Test Procedures" section of this report.

The measurement data and conclusions appearing herein relate only to the sample tested and this report may not be reproduced in any form unless done so in full.

This report must not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the U.S. Federal Government.

The measurement data and conclusions contained in this test report are deemed satisfactory evidence of compliance with Industry Canada Interference-Causing Equipment Standard ICES-003, Issue 6, January 2016.

Electro Magnetic Test, Inc. is recognized by the following agencies for performing EMI/EMC testing:

COUNTRY	AGENCY	IDENTIFYING #
USA	Federal Communications Commission (FCC) (EMT's test site is recognized by the FCC)	Registration Number: 90576
USA, Canada, Taiwan, Australia/New Zealand, European Community	National Voluntary Lab Accreditation Program (NVLAP) (EMT is accredited by NVLAP. A copy of the NVLAP Scope Of Accreditation is available upon request.)	Lab Code: 200147-0
Canada	Industry Canada	File No.: IC 2804
Japan	Voluntary Control Council For Interference (VCCI)	A-0118
	Open Field Test Site "A"	-
	Mains Conducted Emissions Test Site "D"	-
	Telecom Conducted Emissions Test Site "D"	-
	3 Meter Semi-Anechoic Chamber Site "E"	-
	3 Meter Semi-Anechoic Chamber Site "E" (1GHz – 6GHz)	-
	Mains Conducted Emissions Test Site "E"	-
	Telecom Conducted Emissions Test Site "E"	-
Korea	Ministry of Information and Communication's Radio Research Laboratory (RRL) under the Asia Pacific Economic Cooperation (APEC) Mutual Recognition Arrangement (A copy of the Scope Of Accreditation is available upon request)	US0036
Taiwan	Bureau Of Standards, Metrology and Inspection (BSMI)	Reference Number: SL2-IN-E-1024
Australia / New Zealand	Australian Communications Authority (AUSTEL)	*

*These agencies do not issue an identifying number to test labs.


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GENERAL REPORT SUMMARY (CONTINUED)

Device Tested: Drone
 Model: SDRC2V1
 S/N: N/A

Product Description: The EUT is a quadcopter intended to capture video by moving autonomously through the world. The EUT communicates to either a user's cell phone or a Skydio sold beacon or controller over the 2.4 GHz & 5 GHz Wifi bands. The EUT stores video on a removable SD card and is capable of video processing when not in flight. The EUT can also charge the Skydio LiPo battery via a USB-C port using the provided 65W AC adapter.

Modifications: The EUT was not modified during the testing.

Manufacturer: Skydio, Inc.
 114 Hazel Avenue
 Redwood City, California, 94605

Test Date(s): June 25, 26, July 10, October 24, 25, 2019

Test Specifications: EMI requirements
 Limits: CISPR 22: 1997 plus A1:2000 & A2:2002 Class B
 FCC Title 47, Part 15 Subpart B, Class B
 FCC Title 47, Part 15 Subpart C
 FCC Title 47, Part 15 Subpart E
 Test Procedure: ANSI C63.8: 2013

Test Deviations: The test procedure was not deviated from during the testing.

SUMMARY OF TEST RESULTS

TEST	DESCRIPTION	FCC STANDARD	IC STANDARD	RESULTS
7.1	Emissions in Restricted and Non-Restricted Bands	15.209	RSS-GEN Issue 4, [8.9] RSS 247 Issue 2, [5.5]:	PASS
7.2	Conducted Emissions	15.207(a)	RSS-GEN Issue 4 [8.8]	PASS
7.3	Occupied Bandwidth	15.407(e)	RSS 247 Issue 2, [5.2.1, 6.2.4.1]	PASS
7.4	Maximum Peak Output Power	15.407(a)(1)(iv), 15.407(a)(3)	RSS 247 Issue 2, [5.4.4]	PASS
7.5	Maximum Peak Power Spectral Density	15.407(a)(1)(iv), 15.407(a)(3)	RSS 247 Issue 2, [5.2.2]	PASS
7.6	Antenna Requirement	15.203, 15.407(a)(1)(iv), 15.407(a)(2)	N/A	PASS
7.7	Safety Requirements	15.407(c), 15.407(h), 15.407(a)(1)(iv)	N/A	PASS
7.8	Frequency Stability	15.407(g)	N/A	PASS


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TECHNICAL DESCRIPTION OF THE EUT

Manufacturer:		Skydio, Inc.	
Manufacturer Address:		114 Hazel Avenue	
EUT Name:		Drone	
Model No:		Model: SDRC2V1	
Operation frequency:		5180MHz to 5240MHz, and 5745MHz to 5825MHz	
Channel Number:		2/2	
Modulation Technology:		DSSS	
Antenna Type:		PCB Antenna	
Antenna Gain:		4 dBi	
Maximum Output Power:		16.05dBm	
Description of Channel:			
U-NII-1 (5GHz)			
Channel	Frequency (MHz)	Channel	Frequency (MHz)
38	5190	46	5230
U-NII-3 (5GHz)			
151	5755	159	5795

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1. PURPOSE

This document is a qualification test report based on the Electromagnetic Interference (EMI) tests performed on the Drone Model: SDRC2V1. The EMI measurements were performed according to the measurement procedure described in ANSI C63.8 2013. The tests were performed in order to determine whether the electromagnetic emissions from the equipment under test, referred to as EUT hereafter, are within the specification limits defined in FCC Title 47, Part 15, Subpart C and Subpart E.

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2. ADMINISTRATIVE DATA

2.1 Location of Testing

The EMI tests described herein were performed at the test facility of Electro Magnetic Test, Inc., 1547 Plymouth Street, Mountain View, California, 94043.

2.2 Traceability Statement

The calibration certificates of all test equipment used during the test are on file at the location of the test. The measurement results in this report and the calibration of the test equipment are traceable to the National Institute of Standards and Technology (NIST).

2.3 Cognizant Personnel

Skydio, Inc.

Joe Marcinkowski Engineering Program Manager

Electro Magnetic Test, Inc.

Andreas Davidsson Test Technician

David Vivanco Test Technician

Simeet Gandhi Test Technician

Manan Modi Test Technician

Kevin Bothmann Lab Manager

2.4 Date Test Sample was Received

The test sample was received on June 25, 26, October 4, 2019

2.5 Disposition of the Test Sample

The test sample has not yet been returned to Skydio, Inc.

2.6 Abbreviations and Acronyms

The following abbreviations and acronyms may be used in this document.

RF	Radio Frequency
EMI	Electromagnetic Interference
EUT	Equipment Under Test
P/N	Part Number
S/N	Serial Number
HP	Hewlett Packard
ITE	Information Technology Equipment
CML	Corrected Meter Limit
LISN	Line Impedance Stabilization Network
CISPR	International Special Committee On Radio Interference
FCC	Federal Communications Commission

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3. APPLICABLE DOCUMENTS

The following documents are referenced or used in the preparation of this EMI Test Report.

SPEC	TITLE
FCC Title 47, Part 15, Subpart E	FCC Rules - Unlicensed National Information Infrastructure Devices
ANSI C63.10-2013	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.
RSS-Gen Issue 5, April 2018	General Requirements for Compliance of Radio Apparatus
RSS 247, Issue 2, February 2017	Digital Transmission Systems (DTSs), Frequency Hopping Systems (FHSS) and Licence-Exempt Local Area Network (LE-LAN) Devices

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4. DESCRIPTION OF TEST CONFIGURATION

4.1 Description of Test Configuration - EMI

The EUT had 3 modes of operation, Flight Mode, USB Transfer Mode, and Charging Mode, the configuration for each mode is listed below:

Flight Mode: The vehicle is simulating flight conditions, with all motors spinning and the user camera recording. The onboard computer is calculating flight dynamics and processing images from the navigation cameras. The wireless link is operating a maximum power output.

USB Transfer Mode: The vehicle is in a mode where it has landed from a flight and is processing the captured video. This video is also transferred to a computer over a USBC cable. The motors are not operational and the cameras are not recording, but the computer is running and the wireless link is operational.

Charging Mode: The vehicle is charging the Skydio battery via the USB-C port and provided 65W AC adapter. A small amount of compute is required and the wireless system is operational, but the motors are not spinning and the cameras are not recording.

The EUT was tested in three physical configurations across all modes, flat, vertical with antenna facing upwards, and vertical with antenna facing downwards. The flat orientation in flight mode was found to have the highest intentional and unintentional emissions.

It was determined that the emissions were at their highest level when the EUT was operating in the above configuration. The final conducted as well as radiated data was taken in this mode of operation. All initial investigations were performed with the EMI receiver in manual mode scanning the frequency range continuously.

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4.1.1 Cable Construction and Termination

Flight Mode:

The EUT did not have any cables connected to it in this mode of operation.

USB Transfer Mode:

Cable #1

This is a 1ft 8 in foil and braid shielded USB Type C cable connecting the EUT to the Storage Drive. It has a USB Type C connection on both ends of the cable.

Charging Mode:

Cable #1

This is a 4 ft. foil and braid shielded USB Type C cable connecting the EUT to its AC power supply. It has a USB Type C connection on both ends of the cable.


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5. LISTS OF EUT, ACCESSORIES AND TEST EQUIPMENT

5.1 EUT and Accessory List

EQUIPMENT TYPE	MANUFACTURER	MODEL	SERIAL NUMBER	FCC ID
Drone (EUT)	Skydio, Inc.	SDRC2V1	N/A	2ATQRSDRC2V1
AC Adapter (For Charging Mode Only)	Acbel Polytech Inc.	WAH232	W232A8AU02BB 2	DOC
Storage Drive (For USB Transfer Mode Only)	Seagate	LRD0TU6	NL352G2P	DOC
THE FOLLOWING WERE LOCATED OUTSIDE THE TEST SITE:				
Laptop	Dell	Precision 5510	7W0GNH2	DOC
Laptop AC Adapter	Dell	HA130PM130	CN-0RN7NW- 75661-343-20SJ- A00	DOC
Charging Dock	Skydio, Inc.	N/A	N/A	N/A
Charging AC Adapter	Delta Electronics, Inc.	ADP-100PB B	0432- 03AE0RV6210004 67	DOC


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5.2 EMI Test Equipment

EQUIPMENT TYPE	MANUFACTURER	MODEL NUMBER	SERIAL NUMBER	CAL. DATE	CAL. CYCLE
EMI Receiver	Rohde & Schwarz	ESU40	100295	February 15, 2019	1 Year
Radiated EMI Software	Sector Design	N/A	Ver.1.4.6	N/A	N/A
EMI Receiver (Conducted EMI)	Rohde & Schwarz	ESU40	100295	February 15, 2019	1 Year
Conducted EMI Software	ETS-Lindgren	Tile!	Rev. 7.0.12.697	N/A	N/A
Preamplifier	Hewlett Packard	8447D	1937A02579	March 5, 2019	1 Year
RF Attenuator	Com-Power	LIT-153A	531175	December 15, 2018	1 Year
LISN	Solar Electronics	Type 21107-50-TS-50-N	21107150701	January 2, 2019	1 Year
LISN	Solar Electronics	Type 21107-50-TS-50-N	21107150702	January 2, 2019	1 Year
LISN	Solar Electronics	Type 21107-50-TS-50-N	21107150703	January 2, 2019	1 Year
LISN	Solar Electronics	Type 21107-50-TS-50-N	21107150704	January 2, 2019	1 Year
Biconical Antenna	Com Power	AB-100	01557	July 20, 2018 / July 20, 2019	1 Year
Log Periodic Antenna	Com Power	AL-100	16001	August 9, 2018 / August 9, 2019	1 Year
Antenna Mast	Com Power	AM-400	N/A	N/A	N/A
Turntable	Com Power	TT-100	N/A	N/A	N/A
Computer	Dell, Inc.	DHS	DNSV641	N/A	N/A
Printer	Hewlett Packard	C8124A	CN39A220ZD	N/A	N/A


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5.2 EMI Test Equipment (Continued)

EQUIPMENT TYPE	MANUFACTURER	MODEL NUMBER	SERIAL NUMBER	CAL. DATE	CAL. CYCLE
EMI Receiver	Rohde & Schwarz	ESU40	100127	February 16, 2019	1 Year
EMI Test Software	Rohde & Schwarz	EMC32	V8.54.0	N/A	N/A
BiConiLog Antenna	ETS-Lindgren	3143B	00206757	August 28, 2018 / August 28, 2019	1 Year
Horn Antenna	ETS-Lindgren	3117	00109294	September 18, 2018/ September 18, 2019	1 Year
Preamplifier	Rohde & Schwarz	TS-PR18	100056	December 12, 2018	1 Year
Antenna Mast	ETS-Lindgren	2171B	00150364	N/A	N/A
Turntable	ETS-Lindgren	2187-3.0	00118231	N/A	N/A
Computer	Dell, Inc.	Precision Tower 3620	GPQCDH2	N/A	N/A
Multi-Function Controller	ETS-Lindgren	2090	00102270	N/A	N/A

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6. TEST SITE DESCRIPTION

6.1 Test Facility Description

Please refer to the table below and section 7.1 of this report for the details of which sites were used for testing. All sites are located at 1547 Plymouth Street, Mountain View, California 94043.

Site Used For Test	Site Description
	Open Field Test Site "A"
X	Mains Conducted Emissions Test Site "D"
	Telecom Conducted Emissions Test Site "D"
X	3 Meter Semi-Anechoic Chamber Site "E"
	Mains Conducted Emissions Test Site "E"
	Telecom Conducted Emissions Test Site "E"

6.2 EUT Mounting, Bonding and Grounding

The EUT was mounted on a 1.0 by 1.5 meter non-conductive table 0.8 meters above the ground plane for all tests not including radiated measurements above 1GHz.

For radiated measurements above 1GHz the EUT was mounted on a 0.7 meter non-conductive hollow cube that was placed on a 1.0 by 1.5 meter table 0.8 meters above the ground plane with a total height of 1.5 meters.

The EUT was not grounded in Flight or USB Transfer Mode, in Charging mode it was grounded only through the safety ground in its power cable.

6.3 Facility Environmental Characteristics

All tests were performed in a climate controlled building. The temperature was 24° C, humidity 45%, and barometric pressure 101.6 kPa.


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7. TEST PROCEDURES

The following sections describe the test methods and the specifications for the tests.

7.1 Emissions in Restricted and Non-Restricted Bands

7.1.1 General Requirements Limit (FCC PART 15 Section 15.209(a)(1), IC-RSS-GEN Issue 4, [8.9])

Frequency of Emission (MHz)	Field Strength		Measurement Distance (Meters)
	$\mu\text{V/m}$	$\text{dB}\mu\text{V/m}$	
0.009-0.49	2400/F(kHz)		300
0.49-1.705	24000/F(kHz)		30
1.705-30	30		30
30-88	100	40	3
88-216	150	43.5	3
216-960	200	46	3
Above 960	500	54	3

7.1.2 Emissions in Restricted and Non-Restricted Bands Limit (FCC PART 15 Section 15.407, IC-RSS-GEN Issue 4, [8.10], IC-RSS 247 Issue 1, [5.5])

Emissions in Restricted and Non-Restricted Bands FCC PART 15 Section 15.407(b(1)):

For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

Emissions in Restricted and Non-Restricted Bands FCC PART 15 Section 15.407(b(4(i))):

All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

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7.1.2**Emissions in Restricted and Non-Restricted Bands Limit (FCC PART 15 Section 15.407, IC-RSS-GEN Issue 4, [8.10], IC-RSS 247 Issue 1, [5.5]) (Continued)****Emissions in Restricted Bands IC-RSS-GEN Issue 4, [8.10]:**

Restricted bands, identified in Table 6, are designated primarily for safety-of-life services (distress calling and certain aeronautical bands), certain satellite downlinks, radio astronomy and some government uses. Except where otherwise indicated, the following restrictions apply:

- (a) Fundamental components of modulation of licence-exempt radio apparatus shall not fall within the restricted bands of Table 6 except for apparatus complying under RSS-287
- (b) Unwanted emissions that fall into restricted bands of Table 6 shall comply with the limits specified in RSS-Gen; and
- (c) Unwanted emissions that do not fall within the restricted frequency bands of Table 6 shall comply either with the limits specified in the applicable RSS or with those specified in this RSS-Gen.

Limit (For Restricted Bands)
See General Limits Requirement In Above Chart (Section 7.1.1)

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7.1.3 Test Procedure (Radiated)

The Rohde & Schwarz ESU40 EMI receiver was used as a measuring meter while under software control by the Rohde & Schwarz EMC32 software. To increase the sensitivity of the instrument, the built in preamplifier was used from 9 KHz to 1 GHz and an external preamplifier was used from 1 GHz to 26.5 GHz. The EMI receiver was used in the peak detect mode with the "Max Hold" feature activated. In this mode, the EMI receiver records the highest measured reading over all the sweeps. The built in quasi-peak or average detector was used only for those readings which are marked accordingly on the data sheets. The effective measurement bandwidth used for the radiated emissions test was 100 kHz from 9 kHz to 26.5 GHz.

The Loop Antenna, Broadband BiConiLog and horn antennas were used as transducers during the measurement. The Loop antenna was used from 9 KHz to 30 MHz, the BiConiLog antenna was used from 30 MHz to 1000 MHz and horn antennas were used from 1GHz – 26.5 GHz. The frequency spans were wide (9 kHz to 150 kHz, 150 kHz to 30 MHz, 30 MHz to 88 MHz, 88 MHz to 216 MHz, 216 to 300 MHz, 300 MHz to 1 GHz, 1 GHz to 18 GHz and 18 GHz to 26.5 GHz) during preliminary investigations. The final data was taken with a frequency span of 1 MHz. Furthermore, the frequency span was reduced during the preliminary investigations as deemed necessary.

The 5 meter semi-anechoic chamber of Electro Magnetic Test, Inc. was used for radiated emission testing. This test site is set up according to ANSI C63.8: 2013. Please see section 6.2 of this report for mounting, bonding and grounding of the EUT. The turntable supporting the EUT is remote controlled using a motor. The turntable permits EUT rotation of 360 degrees in order to maximize emissions. Also, the antenna mast allows height variation of the antenna from 1 meter to 4 meters. Data was collected in the worst case (highest emission) configuration of the EUT. The EUT was rotated 360 degrees and the antenna height was varied from 1 to 4 meters (for E field radiated field strength).

The presence of non EUT signals was verified by turning the EUT off. In case a non EUT signal was detected, the measurement bandwidth was reduced temporarily and verification was made that an additional adjacent peak did not exist. This ensures that the other signal does not hide any emissions from the EUT. The EUT was tested at a 3 meter test distance from 9 kHz to 26.5 GHz. to obtain final test data.

The test was run through fully three times with the EUT having its output set to low, middle, and high channels on each test respectively. The data was then combined to provide the worst case of all three tests.

Calculation Of Radiated Emission Test Data:

Amplitude - Gain + Antenna Factor + Cable Loss = Corrected Amplitude

Corrected Amplitude - Limit = Margin

Associated with the radiated emission test data in this report is a ± 5.1 dB measurement uncertainty.

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7.1.4 Test Procedure (Conducted)

The Rohde & Schwarz ESU40 EMI receiver was used as a measuring meter. The data was collected with the EMI receiver in the peak detect mode with the "Max Hold" feature activated. The quasi-peak and average detectors were used only where indicated in the data sheets. A 10 dB attenuation pad was used for the protection of the EMI receiver input stage, and the EMI receiver offset was adjusted accordingly to read the actual data measured. The LISN output was read by the Rohde & Schwarz ESU40 EMI receiver. The output of the second LISN was terminated by a 50 ohm termination. The effective measurement bandwidth used for the conducted emissions test was 9 kHz.

Please see section 6.2 of this report for mounting, bonding and grounding of the EUT. The EUT was powered through the LISN, which was bonded to the ground plane. The LISN power was filtered and the filter was bonded to the ground plane. The EUT was set up with the minimum distances from any conductive surfaces as specified in ANSI C63.8: 2013. The excess power cord was wrapped in a figure eight pattern to form a bundle not exceeding 0.4 meters in length.

The initial test data was taken in manual mode while scanning the frequency ranges of 0.15 MHz to 1.6 MHz, 1.6 MHz to 5 MHz and 5 MHz to 30 MHz. The conducted emissions from the EUT were maximized for operating mode as well as cable and peripheral placement. Once a predominant frequency (within 12 dB of the limit) was found, it was more closely examined with the spectrum analyzer span adjusted to 1 MHz.

The final data was collected under program control by the ETS-Lindgren Tile! software in several overlapping sweeps by running the spectrum analyzer at a minimum scan rate of 10 seconds per octave.

Calculation Of Conducted Emission Test Data:

Amplitudes shown on the test data are already corrected and include the following equation:

Raw Amplitude + LISN Insertion Loss + Attenuator + Cable Loss = Corrected Amplitude

Corrected Amplitude - Limit = Margin

Associated with the conducted emission test data in this report is a ± 3.4 dB measurement uncertainty.

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7.2 Conducted Emissions Test – Mains Ports**7.2.1 Limit (FCC PART 15 Section 15.207(a), IC RSS-GEN Issue 4 [8.8])**

Frequency of Emission (MHz)	Conducted Limit (dBμV)	
	Quasi-peak	Average
0.15-0.5	66 to 56 *	56 to 46 *
0.5-5	56	46
5-30	60	50

*Note: Decreases with the logarithm of the frequency

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7.3 Occupied Bandwidth

7.3.1 Limits

FCC PART 15 Section 15.407(e)

Within the 5.725-5.85 GHz band, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

Limit
6 dB Bandwidth $\geq$ 500 kHz

7.3.2 Test Procedure

Follow the radiated test procedure but set the Spectrum Analyzer as below:

RBW: 100 kHz

VBW: $\geq 3 \times$ RBW

Detector: Peak

Trace Mode: Max Hold

- (1) Set analyzer center frequency to center of signal
- (2) Turn on occupied bandwidth measurement mode
- (3) Set measurement to 6db bandwidth

Associated with the Occupied Bandwidth test data in this report is a $\pm 2.5\%$ measurement uncertainty.

7.3.3 Test Result

The EUT meets the requirements. Please see the datasheets in Appendix A for the measurement results.

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7.4 Maximum Peak Output Power

7.4.1 Limits

FCC PART 15 Section 15.407(a)(1)(iv)

For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi.

FCC PART 15 Section 15.407(a)(3)

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W.

Limit
5.15-5.25 GHz: Peak Output Power (Digital Modulation) $\leq$ 250 milliwatt or 23 dBm
5.725-5.85 GHz: Peak Output Power (Digital Modulation) $\leq$ 1 Watt or 30 dBm

7.4.2 Test Procedure

RBW > DTS Bandwidth

VBW $\geq$ 3 x RBW

Span $\geq$ 3 x RBW

Detector: Peak

Trace Mode: Max Hold

1. When the trace is completed, mark the peak value
2. Calculate the Peak Output Power by using the following equation:
 - a. Peak Power = Raw Output Power + Cable LossWhere:
 - b. Cable Loss = 3.1 dBm

Associated with the Maximum Peak Output Power test data in this report is a ± 5.1 dB measurement uncertainty.

7.4.3 Test Result

The EUT meets the requirements. Please see the datasheets in Appendix A for the measurement results.

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7.5 Maximum Peak Power Spectral Density

7.5.1 Limits

FCC PART 15 Section 15.407(a)(1)(iv)

For client devices in the 5.15-5.25 GHz band, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band.

FCC PART 15 Section 15.407(a)(3)

For the band 5.725-5.85 GHz the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band.

Limit
5150-5250MHz: 11 dBm / 1 MHz
5725-5850MHz: 30 dBm / 500 kHz

7.5.2 Test Procedure

Follow the conducted test procedure but set the Spectrum Analyzer as below:

RBW = 100 KHz

VBW $\geq 3 \times$ RBW

Span $\geq 1.5 \times$ DTS Bandwidth

Detector: Peak

1.) Connect EUT to Spectrum Analyzer

2.) Record data values and calculate Power Spectral Density by using the following equation:

a. Peak Power = Raw Power Spectral Density Power + Cable Loss

Where:

b. Cable Loss = 3.1 dBm

Associated with the Maximum Peak Power Spectral Density test data in this report is a ± 5.1 dB measurement uncertainty.

7.5.3 Test Result

The EUT meets the requirements. Please see the datasheets in Appendix A for the measurement results.

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7.6 Antenna Requirement

7.6.1 Requirement (FCC PART 15 SECTION 15.203, 15.407(a)(1)(i), 15.407(a)(2))

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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section.

(iv) For client devices in the 5.15-5.25 GHz band, if transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

(2) For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in megahertz.

7.6.2 Test Result

The antenna is integrated on the main PCB with no consideration for replacement on the Drone.

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7.7 Security Requirements**7.7.1 Transmission Detection****7.7.1.1 Limits 15.407(c)**

The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signalling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals. Applicants shall include in their application for equipment authorization a description of how this requirement is met.

7.7.1.2 Test Result

The client has been informed of this requirement and has included in a separate document how this requirement is met on the EUT.

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7.7.2 Transmit Power Control (TPC) and Dynamic Frequency Selection (DFS).**7.7.2.1 Limits 15.407(h)**

(1) Transmit power control (TPC). U-NII devices operating in the 5.25-5.35 GHz band and the 5.47-5.725 GHz band shall employ a TPC mechanism. The U-NII device is required to have the capability to operate at least 6 dB below the mean EIRP value of 30 dBm. A TPC mechanism is not required for systems with an e.i.r.p. of less than 500 mW.

(2) Radar Detection Function of Dynamic Frequency Selection (DFS). U-NII devices operating with any part of its 26 dB emission bandwidth in the 5.25-5.35 GHz and 5.47-5.725 GHz bands shall employ a DFS radar detection mechanism to detect the presence of radar systems and to avoid co-channel operation with radar systems. Operators shall only use equipment with a DFS mechanism that is turned on when operating in these bands. The device must sense for radar signals at 100 percent of its emission bandwidth. The minimum DFS detection threshold for devices with a maximum e.i.r.p. of 200 mW to 1 W is -64 dBm. For devices that operate with less than 200 mW e.i.r.p. and a power spectral density of less than 10 dBm in a 1 MHz band, the minimum detection threshold is -62 dBm. The detection threshold is the received power averaged over 1 microsecond referenced to a 0 dBi antenna. For the initial channel setting, the manufacturers shall be permitted to provide for either random channel selection or manual channel selection.

7.7.2.2 Test Result

This test is not applicable due to the EUT not operating within the 5.25-5.35GHz and 5.47-5.725GHz bands.

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7.7.3 Device Security

7.7.3.1 Limits 15.407(i)

All U-NII devices must contain security features to protect against modification of software by unauthorized parties.

(1) Manufacturers must implement security features in any digitally modulated devices capable of operating in any of the U-NII bands, so that third parties are not able to reprogram the device to operate outside the parameters for which the device was certified. The software must prevent the user from operating the transmitter with operating frequencies, output power, modulation types or other radio frequency parameters outside those that were approved for the device. Manufacturers may use means including, but not limited to the use of a private network that allows only authenticated users to download software, electronic signatures in software or coding in hardware that is decoded by software to verify that new software can be legally loaded into a device to meet these requirements and must describe the methods in their application for equipment authorization.

(2) Manufacturers must take steps to ensure that DFS functionality cannot be disabled by the operator of the U-NII device.

7.7.3.2 Test Result

The client has been informed of this requirement.

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7.8 Frequency Stability**7.8.1 Limits 15.407(g)**

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

7.8.2 Frequency Stability (Voltage)**7.8.2.2 Test Procedure**

Follow the peak output power test procedure but set the EUT within the temperature chamber and take the following steps:

Voltage Test

1. Turn on the device by connecting it to an adjustable power source.
2. Set the device to a representative band in the frequency range.
3. Set the temperature chamber and power input to nominal levels.
4. Measure the results.
5. Set the voltage to 85% of the nominal supply voltage
6. Allow the signal to stabilize.
7. Measure the results.
8. Set the voltage to 115% of the nominal supply voltage.
9. Allow the signal to stabilize.
10. Measure the results.

Associated with the Frequency Stability test data in this report is a $\pm 5.3\%$ measurement uncertainty.

7.8.2.3 Test Result

The EUT meets the requirements.

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7.8.3 Frequency Stability (Temperature)

7.8.3.1 Test Procedure

Follow the peak output power test procedure but set the EUT within the temperature chamber and take the following steps:

1. Turn on the device by connecting it to a nominal power source.
2. Set the device to a representative band in the frequency range.
3. Set the temperature chamber and power input to nominal levels.
4. Measure the results.
5. Increase the temperature by 10 °C
6. Allow the signal to stabilize.
7. Measure the results.
8. Repeat steps 5-7 until hitting the maximum expected temperature operating range.
9. Set the temperature to nominal levels.
10. Decrease the temperature by 10 °C
11. Allow the signal to stabilize.
12. Measure the results.
13. Repeat steps 10-12 until hitting the minimum expected temperature operating range.

Associated with the Frequency Stability test data in this report is a $\pm 2.3\%$ measurement uncertainty.

7.8.3.2 Test Result

The EUT meets the requirements.



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8. CONCLUSIONS / COMPLIANCE STATEMENT

Based upon the results contained in this report, Electro Magnetic Test, Inc. has determined that the Drone, Model: SDRC2V1 meets all of the specification limits defined in FCC Title 47, Part 15, Subpart C and Subpart E.



APPENDIX A

RADIATED AND CONDUCTED EMISSIONS DATA SHEETS

Radiated Emission Test Report

Tested At:**Electro Magnetic Test, Inc.****1547 Plymouth Street****Mountain View, CA 94043****Tel. 650-965-4000****Fax. 650-965-3000****Common Information**

Test Description: EMC32 Standard Report Setup

Operating Conditions:

Test Engineer:

EUT Information

Company Name: Skydio

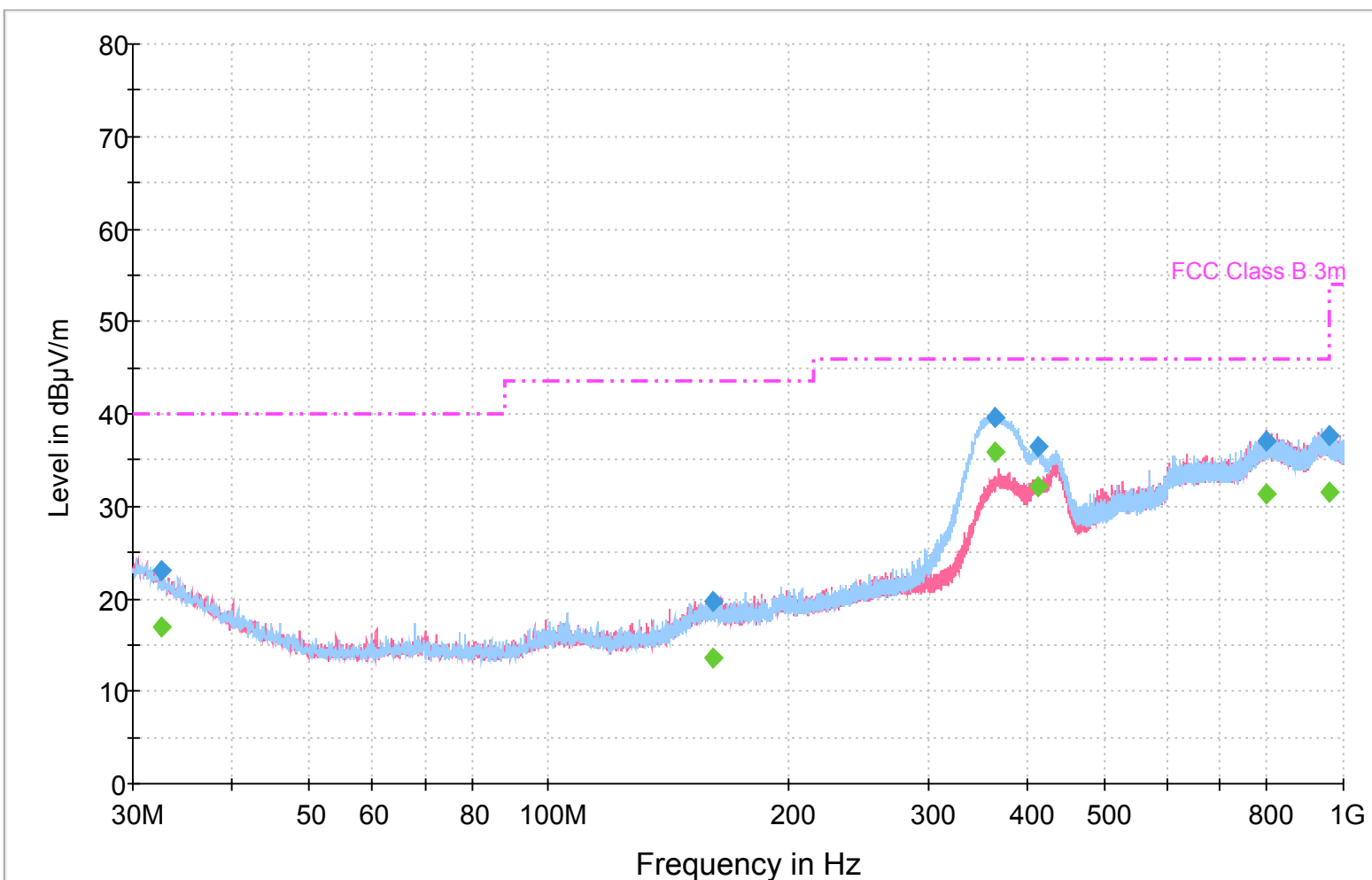
EUT Name Drone

Model Number: R3

Serial Number: N/A

Comment: Flat, Battery Downwards, 40MHz, 19dB, 5190MHz

FCC Class B Radiated Scan 3m PK QP



--- FCC Class B 3m
◆ Final Result 1-PK+

--- Preview Result 1V-PK+
◆ Final Result 2-QPK

--- Preview Result 1H-PK+

Final Result 1

Frequency (MHz)	MaxPeak (dBμV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Comment
32.670000	23.0	222.0	V	0.0	19.3	17.00	40.00	
161.130000	19.7	114.0	H	210.0	15.8	23.80	43.50	
363.690000	39.5	100.0	H	93.0	22.1	6.50	46.00	
412.170000	36.5	100.0	H	71.0	23.5	9.50	46.00	
801.180000	37.1	130.0	V	43.0	31.6	8.90	46.00	
957.930000	37.5	400.0	V	239.0	31.9	8.50	46.00	

Final Result 2

Frequency (MHz)	QuasiPeak (dBμV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Comment
32.670000	16.9	222.0	V	0.0	19.3	23.10	40.00	
161.130000	13.6	114.0	H	210.0	15.8	29.90	43.50	
363.690000	35.9	100.0	H	93.0	22.1	10.10	46.00	
412.170000	32.1	100.0	H	71.0	23.5	13.90	46.00	
801.180000	31.3	130.0	V	43.0	31.6	14.70	46.00	
957.930000	31.5	400.0	V	239.0	31.9	14.50	46.00	

Final Result 1

Frequency (MHz)	MaxPeak (dBμV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Comment
37.050000	20.0	374.0	H	169.0	16.9	20.00	40.00	
193.620000	20.3	330.0	V	157.0	15.6	23.20	43.50	
355.410000	37.7	148.0	H	86.0	21.8	8.30	46.00	
364.410000	39.4	130.0	H	263.0	22.1	6.60	46.00	
430.260000	38.5	114.0	H	93.0	23.7	7.50	46.00	
612.000000	36.5	100.0	V	241.0	28.2	9.50	46.00	

Final Result 2

Frequency (MHz)	QuasiPeak (dBμV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Comment
37.050000	14.3	374.0	H	169.0	16.9	25.70	40.00	
193.620000	14.3	330.0	V	157.0	15.6	29.20	43.50	
355.410000	33.8	148.0	H	86.0	21.8	12.20	46.00	
364.410000	35.9	130.0	H	263.0	22.1	10.10	46.00	
430.260000	34.4	114.0	H	93.0	23.7	11.60	46.00	
612.000000	32.2	100.0	V	241.0	28.2	13.80	46.00	

Final Result 1

Frequency (MHz)	MaxPeak (dBμV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Comment
31.560000	23.6	246.0	V	183.0	19.9	16.40	40.00	
105.690000	20.9	229.0	H	315.0	13.8	22.60	43.50	
254.250000	22.1	378.0	V	44.0	18.2	23.90	46.00	
372.030000	39.1	100.0	H	268.0	22.4	6.90	46.00	
429.810000	37.0	192.0	H	85.0	23.7	9.00	46.00	
947.790000	37.2	100.0	H	359.0	32.1	8.80	46.00	

Final Result 2

Frequency (MHz)	QuasiPeak (dBμV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Comment
31.560000	17.7	246.0	V	183.0	19.9	22.30	40.00	
105.690000	17.3	229.0	H	315.0	13.8	26.20	43.50	
254.250000	15.9	378.0	V	44.0	18.2	30.10	46.00	
372.030000	34.9	100.0	H	268.0	22.4	11.10	46.00	
429.810000	32.5	192.0	H	85.0	23.7	13.50	46.00	
947.790000	31.7	100.0	H	359.0	32.1	14.30	46.00	

Final Result 1

Frequency (MHz)	MaxPeak (dBμV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Comment
30.870000	24.8	378.0	V	0.0	20.4	15.20	40.00	
157.680000	19.3	100.0	H	2.0	15.7	24.20	43.50	
378.030000	36.6	100.0	H	85.0	22.6	9.40	46.00	
437.970000	36.0	194.0	H	93.0	24.1	10.00	46.00	
796.980000	37.0	328.0	V	134.0	31.5	9.00	46.00	
941.100000	37.5	295.0	H	173.0	32.0	8.50	46.00	

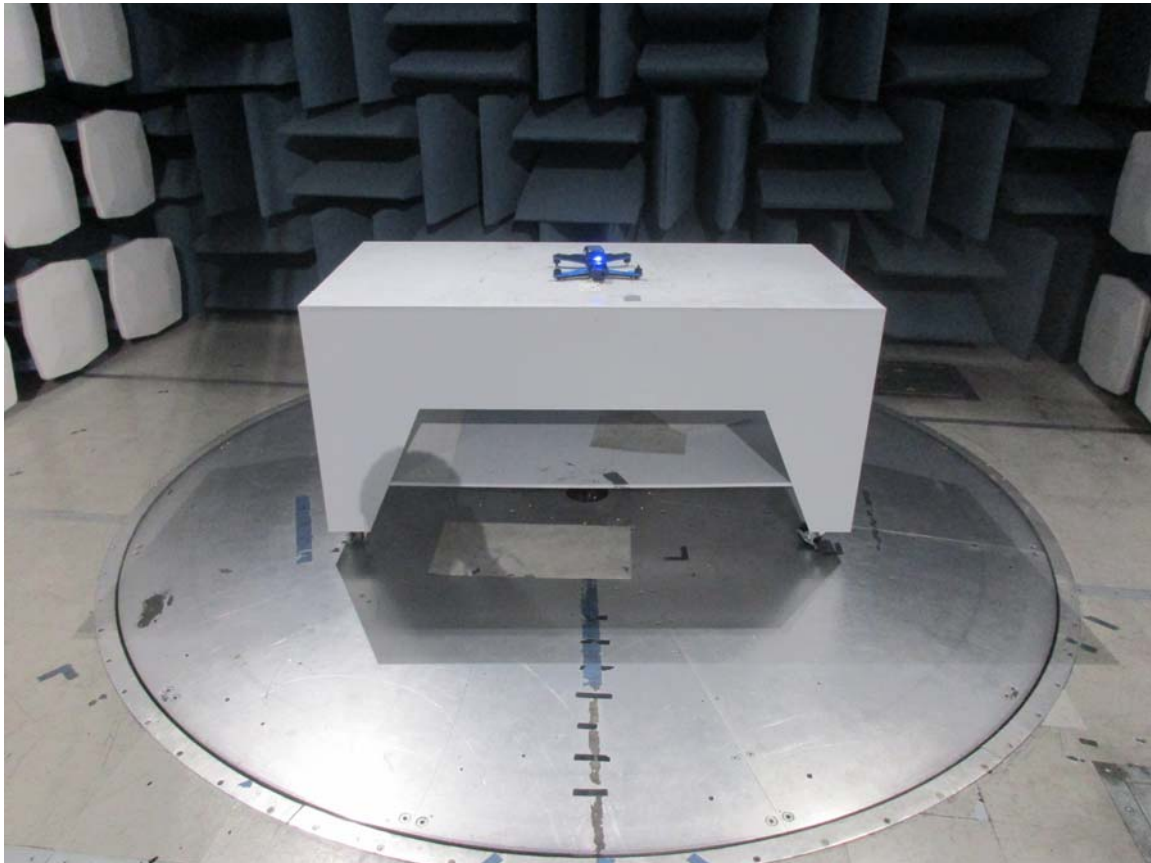
Final Result 2

Frequency (MHz)	QuasiPeak (dBμV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Comment
30.870000	18.1	378.0	V	0.0	20.4	21.90	40.00	
157.680000	13.5	100.0	H	2.0	15.7	30.00	43.50	
378.030000	32.6	100.0	H	85.0	22.6	13.40	46.00	
437.970000	31.2	194.0	H	93.0	24.1	14.80	46.00	
796.980000	31.1	328.0	V	134.0	31.5	14.90	46.00	
941.100000	31.6	295.0	H	173.0	32.0	14.40	46.00	



ELECTRO MAGNETIC TEST, INC.

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FRONT VIEW

Skydio, Inc.

Drone

Model: SDRC2V1

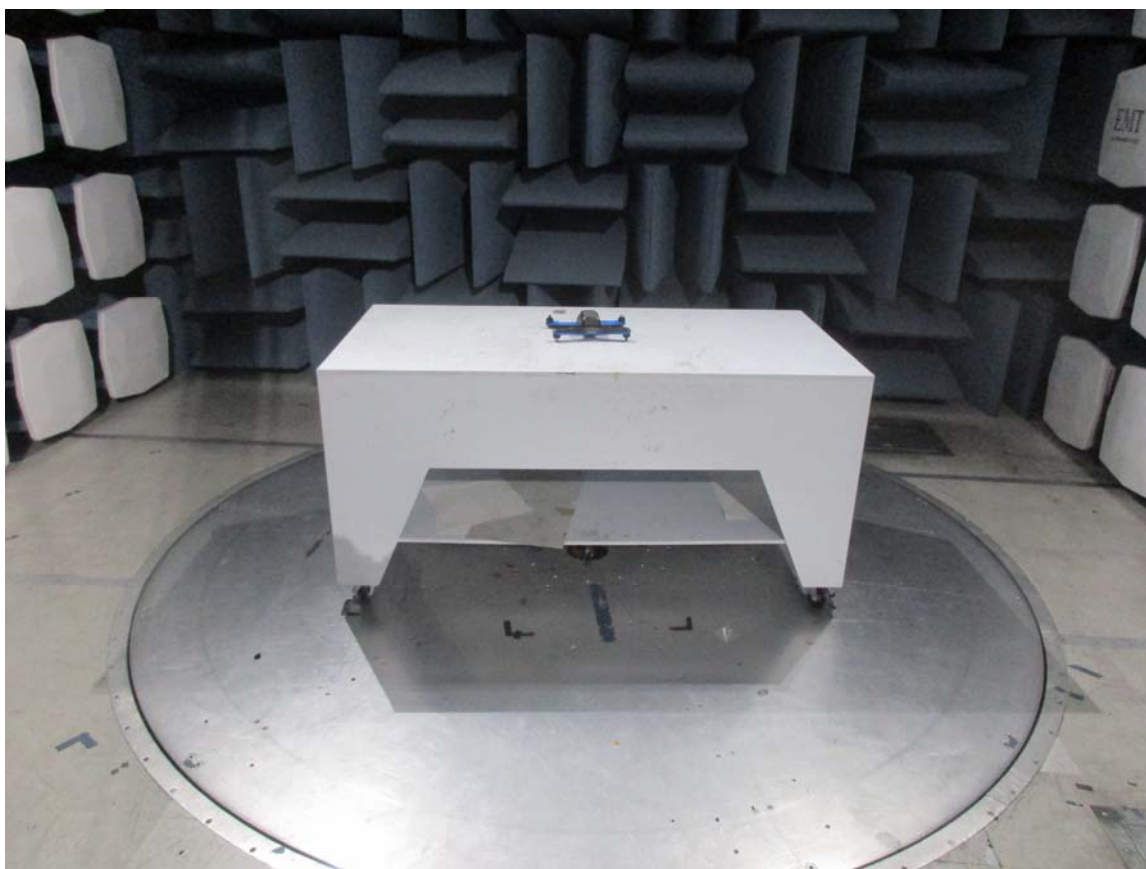
CISPR 22/FCC Class B – Radiated Emissions

**PHOTOGRAPH SHOWING THE EUT CONFIGURATION
FOR MAXIMUM EMISSIONS**



ELECTRO MAGNETIC TEST, INC.

1547 Plymouth Street, Mountain View, CA 94043 Tel: (650) 965-4000 Fax: (650) 965-3000



REAR VIEW

Skydio, Inc.

Drone

Model: SDRC2V1

CISPR 22/FCC Class B – Radiated Emissions

**PHOTOGRAPH SHOWING THE EUT CONFIGURATION
FOR MAXIMUM EMISSIONS**

Radiated Emission Test Report

Tested At:
Electro Magnetic Test, Inc.
1547 Plymouth Street
Mountain View, CA 94043
Tel. 650-965-4000
Fax. 650-965-3000

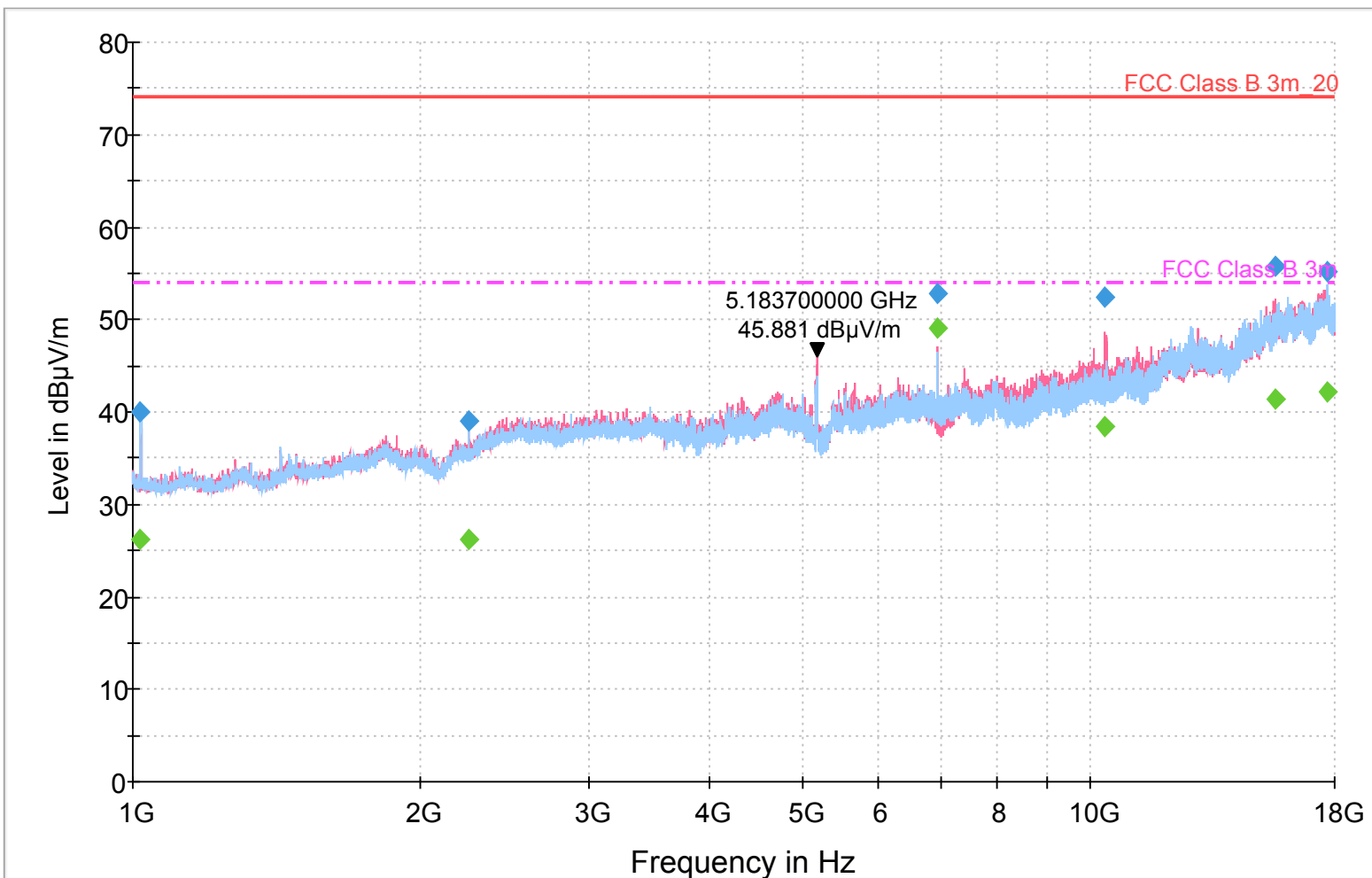
Common Information

Test Description:	FCC Class B Radiated Emissions
Operating Conditions:	Normal
Test Engineer:	Andreas Davidsson

EUT Information

Company Name:	Skydio
EUT Name	Drone
Model Number:	R3
Serial Number:	N/A
Comment:	Flat, Battery Down, 40MHz,19dB, 5190MHz

FCC Class B Radiated Sweep 1GHz-18GHz 3m PK AVG



— FCC Class B 3m_20 - - - FCC Class B 3m — Preview Result 1V-PK+
— Preview Result 1H-PK+ ◆ Final Result 1-PK+ ◆ Final Result 2-AVG

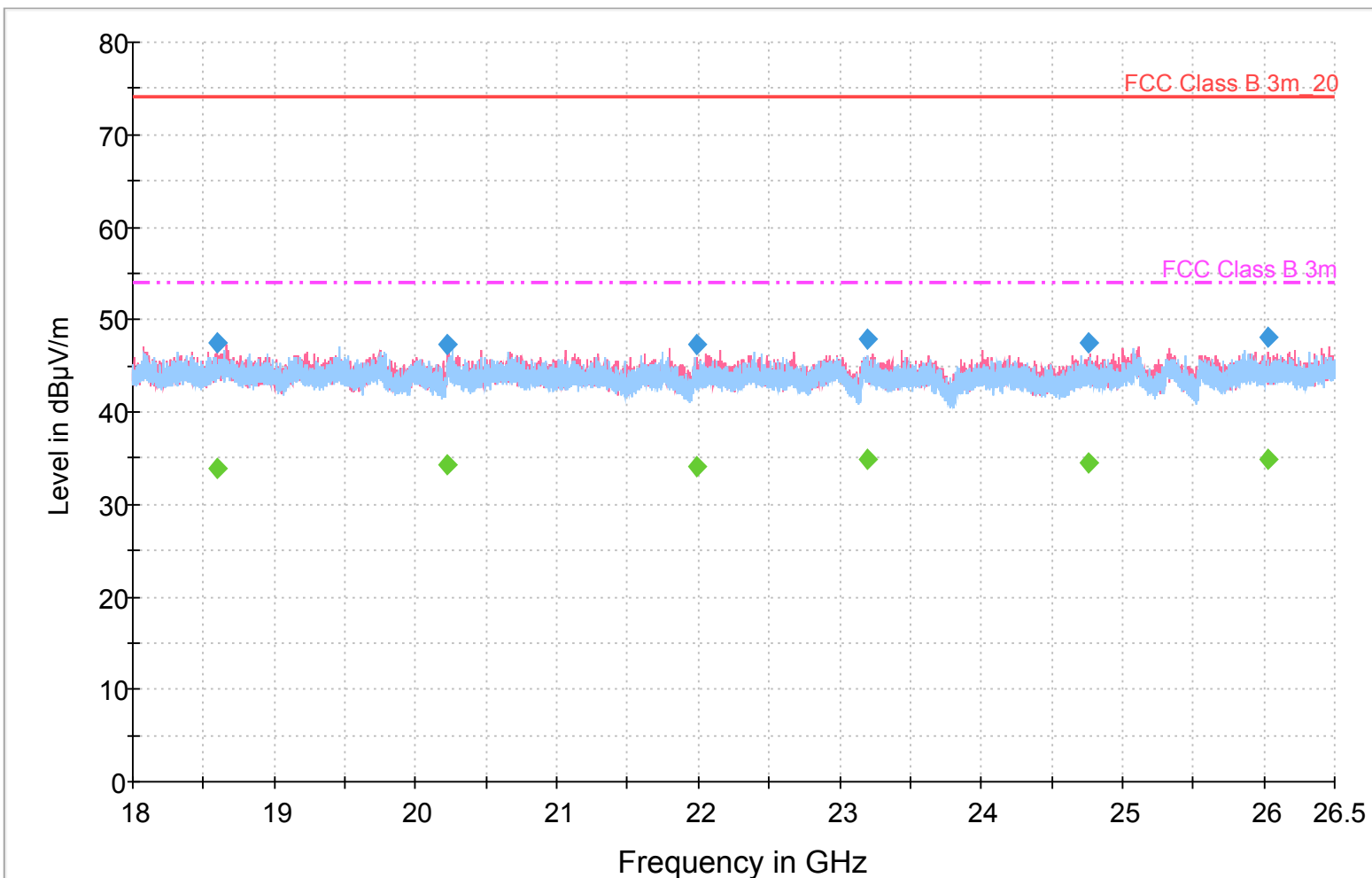
Final Result 1

Frequency (MHz)	MaxPeak (dBμV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Comment
1019.266667	40.0	272.0	H	269.0	-4.1	36.80	74.00	
2243.266667	39.1	134.0	V	310.0	0.0	34.90	74.00	
6919.966667	52.9	322.0	V	105.0	9.4	21.10	74.00	
10372.666667	52.3	275.0	V	305.0	14.5	21.70	74.00	
15583.166667	55.9	320.0	V	67.0	21.2	18.10	74.00	
17686.633333	55.2	122.0	H	222.0	23.3	18.80	74.00	

Final Result 2

Frequency (MHz)	Average (dBμV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Comment
1019.266667	26.2	272.0	H	269.0	-4.1	27.80	54.00	
2243.266667	26.3	134.0	V	310.0	0.0	27.70	54.00	
6919.966667	49.1	322.0	V	105.0	9.4	4.90	54.00	
10372.666667	38.5	275.0	V	305.0	14.5	15.50	54.00	
15583.166667	41.4	320.0	V	67.0	21.2	12.60	54.00	
17686.633333	42.1	122.0	H	222.0	23.3	11.90	54.00	

FCC Class B Radiated Sweep 18GHz-26.5GHz 3m PK AVG



— FCC Class B 3m_20	- - - FCC Class B 3m	— Preview Result 1V-PK+
— Preview Result 1H-PK+	◆ Final Result 1-PK+	◆ Final Result 2-AVG

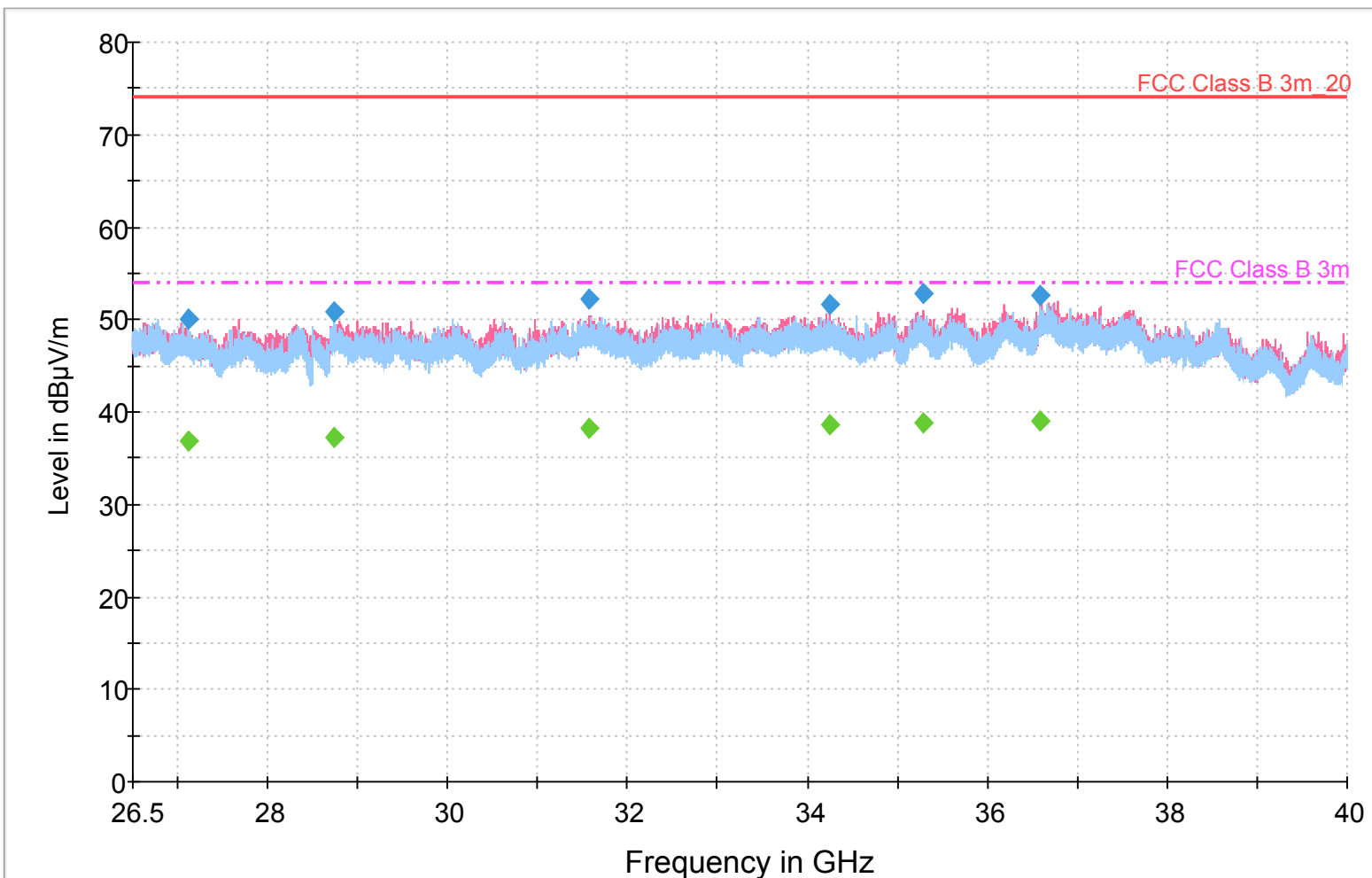
Final Result 1

Frequency (MHz)	MaxPeak (dBμV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Comment
18591.175000	47.4	241.0	V	329.0	10.4	26.60	74.00	
20227.850000	47.3	114.0	V	236.0	10.9	26.70	74.00	
21990.325000	47.3	100.0	V	331.0	11.3	26.70	74.00	
23198.175000	47.9	153.0	H	313.0	11.7	26.10	74.00	
24757.500000	47.5	138.0	V	25.0	11.6	26.50	74.00	
26031.225000	48.0	122.0	V	188.0	11.6	26.00	74.00	

Final Result 2

Frequency (MHz)	Average (dBμV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Comment
18591.175000	33.9	241.0	V	329.0	10.4	20.10	54.00	
20227.850000	34.3	114.0	V	236.0	10.9	19.70	54.00	
21990.325000	34.2	100.0	V	331.0	11.3	19.80	54.00	
23198.175000	34.8	153.0	H	313.0	11.7	19.20	54.00	
24757.500000	34.5	138.0	V	25.0	11.6	19.50	54.00	
26031.225000	34.8	122.0	V	188.0	11.6	19.20	54.00	

FCC Class B Radiated Sweep 26.5GHz-40GHz 3m PK AVG



— FCC Class B 3m_20 - - - FCC Class B 3m — Preview Result 1V-PK+
— Preview Result 1H-PK+ ◆ Final Result 1-PK+ ◆ Final Result 2-AVG

Final Result 1

Frequency (MHz)	MaxPeak (dBμV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Comment
27110.650000	50.1	156.0	V	104.0	-0.7	23.90	74.00	
28734.250000	50.8	285.0	H	244.0	0.9	23.20	74.00	
31576.900000	52.2	153.0	V	5.0	0.2	21.80	74.00	
34258.000000	51.7	137.0	V	359.0	-1.0	22.30	74.00	
35286.250000	52.8	117.0	V	142.0	-2.8	21.20	74.00	
36583.600000	52.6	154.0	V	227.0	-0.4	21.40	74.00	

Final Result 2

Frequency (MHz)	Average (dBμV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Comment
27110.650000	36.9	156.0	V	104.0	-0.7	17.10	54.00	
28734.250000	37.3	285.0	H	244.0	0.9	16.70	54.00	
31576.900000	38.2	153.0	V	5.0	0.2	15.80	54.00	
34258.000000	38.6	137.0	V	359.0	-1.0	15.40	54.00	
35286.250000	38.8	117.0	V	142.0	-2.8	15.20	54.00	
36583.600000	38.9	154.0	V	227.0	-0.4	15.10	54.00	

Final Result 1

Frequency (MHz)	MaxPeak (dBμV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Comment
1019.266667	36.7	358.0	H	271.0	-4.1	37.30	74.00	
5053.366667	51.2	330.0	V	142.0	5.9	22.80	74.00	
5577.533333	51.9	380.0	V	185.0	7.2	22.10	74.00	
6973.233333	52.0	310.0	H	82.0	9.3	22.00	74.00	
10461.633333	49.8	292.0	V	76.0	14.5	24.20	74.00	
15697.066667	60.4	347.0	V	286.0	21.6	13.60	74.00	

Final Result 2

Frequency (MHz)	Average (dBμV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Comment
1019.266667	25.2	358.0	H	271.0	-4.1	28.80	54.00	
5053.366667	34.6	330.0	V	142.0	5.9	19.40	54.00	
5577.533333	35.8	380.0	V	185.0	7.2	18.20	54.00	
6973.233333	48.1	310.0	H	82.0	9.3	6.00	54.00	
10461.633333	36.1	292.0	V	76.0	14.5	17.90	54.00	
15697.066667	42.9	347.0	V	286.0	21.6	11.10	54.00	

Final Result 1

Frequency (MHz)	MaxPeak (dBμV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Comment
1019.833333	42.2	205.0	H	90.0	-4.1	31.80	74.00	
5050.533333	51.6	204.0	V	25.0	5.9	22.40	74.00	
5403.566667	50.3	146.0	V	133.0	6.8	23.70	74.00	
5578.666667	60.1	110.0	V	132.0	7.2	13.90	74.00	
7673.066667	48.6	313.0	V	302.0	10.1	25.40	74.00	
11511.100000	51.0	268.0	V	241.0	16.4	23.00	74.00	
17331.900000	55.9	100.0	V	254.0	23.3	18.10	74.00	

Final Result 2

Frequency (MHz)	Average (dBμV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Comment
1019.833333	38.4	205.0	H	90.0	-4.1	15.60	54.00	
5050.533333	41.1	204.0	V	25.0	5.9	12.90	54.00	
5403.566667	36.3	146.0	V	133.0	6.8	17.70	54.00	
5578.666667	44.7	110.0	V	132.0	7.2	9.30	54.00	
7673.066667	40.5	313.0	V	302.0	10.1	13.50	54.00	
11511.100000	36.2	268.0	V	241.0	16.4	17.80	54.00	
17331.900000	42.3	100.0	V	254.0	23.3	11.70	54.00	

Final Result 1

Frequency (MHz)	MaxPeak (dBμV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Comment
1019.833333	41.9	273.0	H	95.0	-4.1	32.10	74.00	
2243.833333	41.2	126.0	V	287.0	0.0	32.80	74.00	
5090.766667	54.3	121.0	V	30.0	5.8	19.70	74.00	
5434.733333	53.2	277.0	H	71.0	6.9	20.80	74.00	
11595.533333	50.7	400.0	V	234.0	16.6	23.30	74.00	
12104.966667	49.4	100.0	H	109.0	17.1	24.60	74.00	
17292.233333	56.1	122.0	V	356.0	23.5	17.90	74.00	

Final Result 2

Frequency (MHz)	Average (dBμV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Comment
1019.833333	38.1	273.0	H	95.0	-4.1	15.90	54.00	
2243.833333	33.2	126.0	V	287.0	0.0	20.80	54.00	
5090.766667	45.9	121.0	V	30.0	5.8	8.10	54.00	
5434.733333	37.4	277.0	H	71.0	6.9	16.60	54.00	
11595.533333	36.4	400.0	V	234.0	16.6	17.60	54.00	
12104.966667	35.7	100.0	H	109.0	17.1	18.30	54.00	
17292.233333	42.5	122.0	V	356.0	23.5	11.50	54.00	

Final Result 1

Frequency (MHz)	MaxPeak (dBμV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Comment
19401.650000	47.2	210.0	V	359.0	10.6	26.80	74.00	
20557.225000	47.2	146.0	H	279.0	11.0	26.80	74.00	
22525.825000	47.6	114.0	V	149.0	11.6	26.40	74.00	
23485.050000	47.6	130.0	V	230.0	11.5	26.40	74.00	
25025.250000	48.9	100.0	V	72.0	11.8	25.10	74.00	
26070.325000	48.1	100.0	H	6.0	11.8	25.90	74.00	

Final Result 2

Frequency (MHz)	Average (dBμV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Comment
19401.650000	34.2	210.0	V	359.0	10.6	19.80	54.00	
20557.225000	34.1	146.0	H	279.0	11.0	19.90	54.00	
22525.825000	34.1	114.0	V	149.0	11.6	19.90	54.00	
23485.050000	34.0	130.0	V	230.0	11.5	20.00	54.00	
25025.250000	35.3	100.0	V	72.0	11.8	18.70	54.00	
26070.325000	35.0	100.0	H	6.0	11.8	19.00	54.00	

Final Result 1

Frequency (MHz)	MaxPeak (dBμV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Comment
19167.050000	47.1	161.0	H	141.0	10.5	26.90	74.00	
19712.750000	47.9	300.0	V	239.0	10.8	26.10	74.00	
21767.625000	47.6	284.0	V	146.0	11.1	26.40	74.00	
22989.075000	47.4	220.0	H	1.0	11.6	26.60	74.00	
23632.525000	47.1	268.0	V	67.0	11.3	26.90	74.00	
25334.225000	47.8	122.0	V	339.0	12.0	26.20	74.00	

Final Result 2

Frequency (MHz)	Average (dBμV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Comment
19167.050000	33.8	161.0	H	141.0	10.5	20.20	54.00	
19712.750000	34.3	300.0	V	239.0	10.8	19.70	54.00	
21767.625000	34.0	284.0	V	146.0	11.1	20.00	54.00	
22989.075000	34.3	220.0	H	1.0	11.6	19.70	54.00	
23632.525000	34.0	268.0	V	67.0	11.3	20.00	54.00	
25334.225000	34.8	122.0	V	339.0	12.0	19.20	54.00	

Final Result 1

Frequency (MHz)	MaxPeak (dBμV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Comment
18800.275000	47.2	248.0	V	113.0	10.4	26.80	74.00	
20234.225000	48.1	296.0	V	6.0	10.9	25.90	74.00	
21782.075000	47.0	277.0	V	160.0	11.1	27.00	74.00	
22978.875000	47.6	142.0	V	11.0	11.6	26.40	74.00	
24241.550000	47.8	292.0	H	82.0	11.5	26.20	74.00	
25333.375000	48.5	133.0	V	339.0	12.0	25.50	74.00	

Final Result 2

Frequency (MHz)	Average (dBμV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Comment
18800.275000	34.0	248.0	V	113.0	10.4	20.00	54.00	
20234.225000	34.3	296.0	V	6.0	10.9	19.70	54.00	
21782.075000	34.0	277.0	V	160.0	11.1	20.00	54.00	
22978.875000	34.2	142.0	V	11.0	11.6	19.80	54.00	
24241.550000	34.3	292.0	H	82.0	11.5	19.70	54.00	
25333.375000	34.7	133.0	V	339.0	12.0	19.30	54.00	

Final Result 1

Frequency (MHz)	MaxPeak (dBμV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Comment
26793.400000	50.2	226.0	V	161.0	-0.5	23.80	74.00	
28711.750000	50.8	100.0	V	359.0	0.8	23.20	74.00	
31453.600000	50.1	122.0	H	115.0	0.7	23.90	74.00	
33397.600000	51.4	197.0	V	20.0	0.1	22.60	74.00	
36733.000000	52.7	142.0	H	203.0	-1.1	21.30	74.00	
37573.600000	51.7	238.0	V	165.0	-1.1	22.30	74.00	

Final Result 2

Frequency (MHz)	Average (dBμV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Comment
26793.400000	37.0	226.0	V	161.0	-0.5	17.00	54.00	
28711.750000	37.3	100.0	V	359.0	0.8	16.70	54.00	
31453.600000	37.1	122.0	H	115.0	0.7	16.90	54.00	
33397.600000	37.4	197.0	V	20.0	0.1	16.60	54.00	
36733.000000	39.2	142.0	H	203.0	-1.1	14.80	54.00	
37573.600000	38.7	238.0	V	165.0	-1.1	15.30	54.00	

Final Result 1

Frequency (MHz)	MaxPeak (dBμV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Comment
27053.050000	50.5	157.0	V	25.0	-0.6	23.50	74.00	
28722.550000	50.5	100.0	V	323.0	0.9	23.50	74.00	
31610.650000	51.2	152.0	V	90.0	0.1	22.80	74.00	
34273.750000	51.7	300.0	V	16.0	-1.0	22.30	74.00	
36724.450000	52.7	186.0	H	222.0	-1.1	21.30	74.00	
37546.150000	51.9	117.0	V	156.0	-1.2	22.10	74.00	

Final Result 2

Frequency (MHz)	Average (dBμV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Comment
27053.050000	37.0	157.0	V	25.0	-0.6	17.00	54.00	
28722.550000	37.3	100.0	V	323.0	0.9	16.70	54.00	
31610.650000	38.0	152.0	V	90.0	0.1	16.00	54.00	
34273.750000	38.4	300.0	V	16.0	-1.0	15.60	54.00	
36724.450000	39.2	186.0	H	222.0	-1.1	14.80	54.00	
37546.150000	38.9	117.0	V	156.0	-1.2	15.10	54.00	

Final Result 1

Frequency (MHz)	MaxPeak (dBμV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Comment
26698.900000	50.5	100.0	V	30.0	-0.2	23.50	74.00	
28744.150000	50.6	255.0	V	58.0	0.9	23.40	74.00	
29433.550000	50.5	284.0	V	288.0	1.0	23.50	74.00	
31666.450000	51.4	110.0	V	1.0	0.0	22.60	74.00	
33779.650000	51.7	257.0	V	213.0	-0.2	22.30	74.00	
36238.450000	52.1	300.0	V	193.0	-1.3	21.90	74.00	
36622.750000	52.9	165.0	V	15.0	-0.4	21.10	74.00	

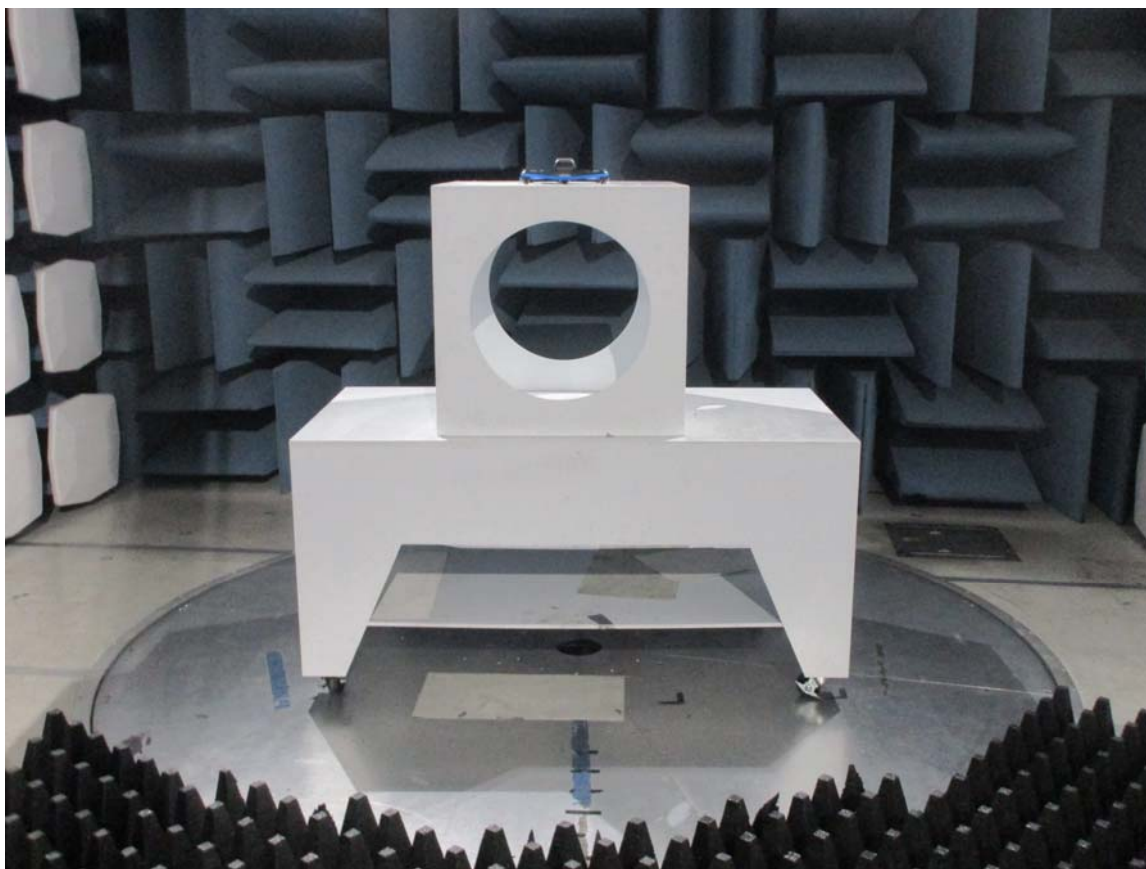
Final Result 2

Frequency (MHz)	Average (dBμV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Comment
26698.900000	37.3	100.0	V	30.0	-0.2	16.70	54.00	
28744.150000	37.5	255.0	V	58.0	0.9	16.50	54.00	
29433.550000	37.2	284.0	V	288.0	1.0	16.80	54.00	
31666.450000	38.2	110.0	V	1.0	0.0	15.80	54.00	
33779.650000	38.2	257.0	V	213.0	-0.2	15.80	54.00	
36238.450000	39.0	300.0	V	193.0	-1.3	15.00	54.00	
36622.750000	39.4	165.0	V	15.0	-0.4	14.60	54.00	



ELECTRO MAGNETIC TEST, INC.

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FRONT VIEW

Skydio, Inc.

Drone

Model: SDRC2V1

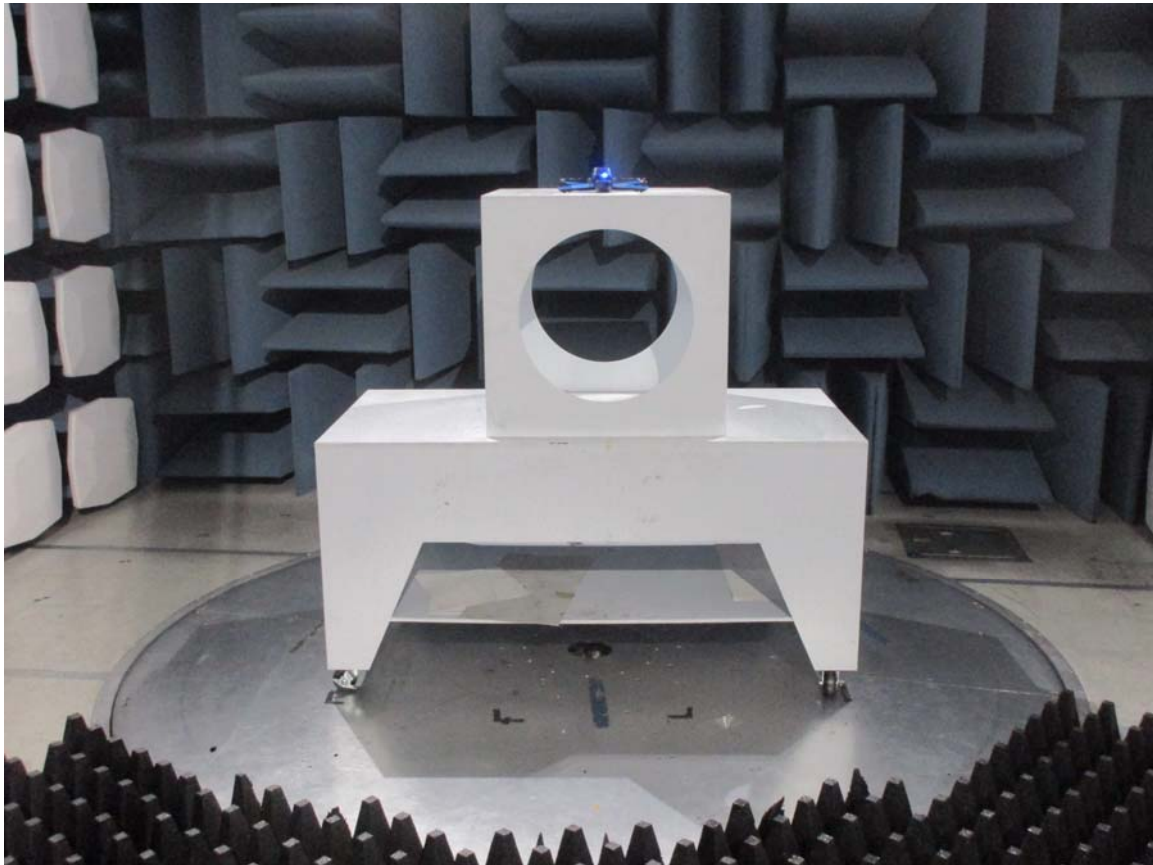
CISPR 22/FCC Class B – Radiated Emissions (>1GHz)

**PHOTOGRAPH SHOWING THE EUT CONFIGURATION
FOR MAXIMUM EMISSIONS**



ELECTRO MAGNETIC TEST, INC.

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REAR VIEW

Skydio, Inc.

Drone

Model: SDRC2V1

CISPR 22/FCC Class B – Radiated Emissions (>1GHz)

**PHOTOGRAPH SHOWING THE EUT CONFIGURATION
FOR MAXIMUM EMISSIONS**

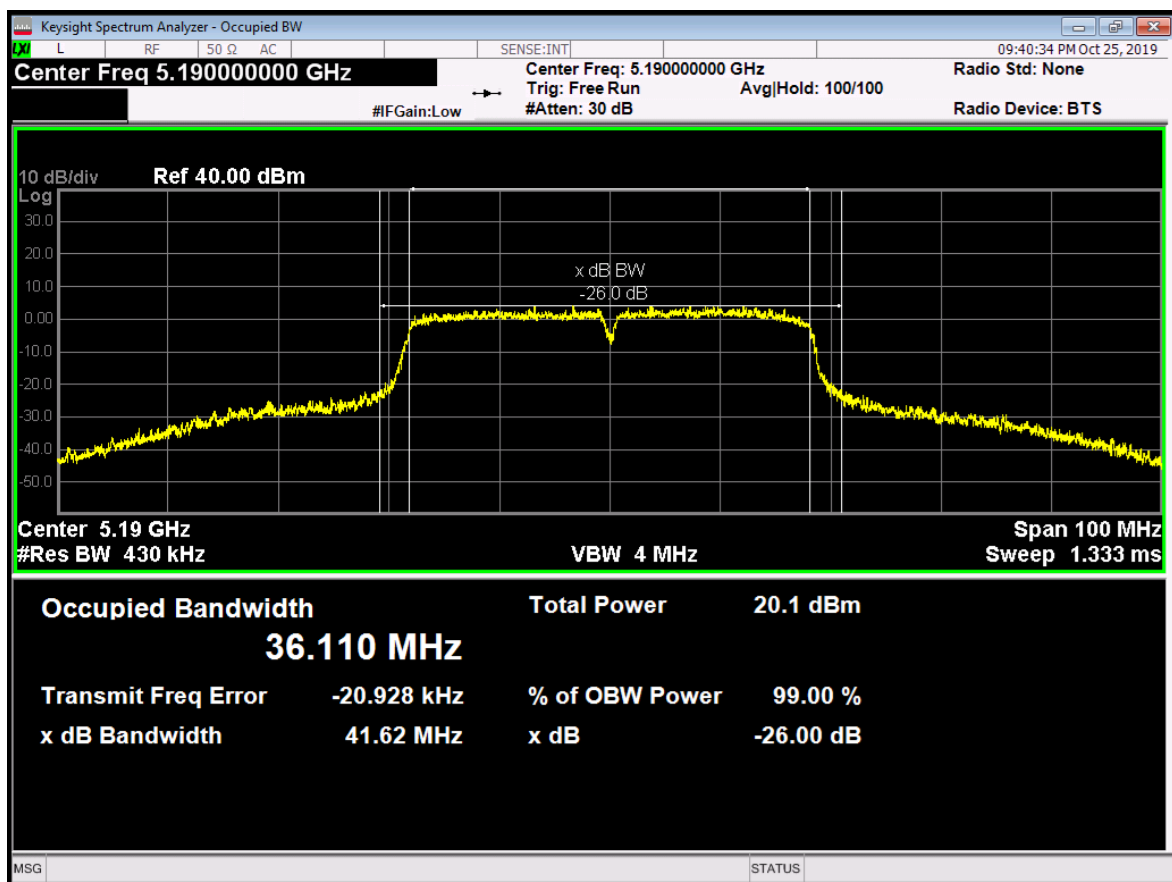


Company:	Skydio, Inc.			Test Date:		10/25/2019	
EUT Name:	Drone			Test Engineer:		Andreas Davidsson	
Model:	SDRC2V1			Test Result:		PASS	
Operating Mode:	TX Mode						
Mode	Antenna	Test CH	Frequency (MHz)	26 dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	6/26 dB Bandwidth Limit (MHz)	Conclusion
U-NII-1	1	38	5190	41.62	36.110	≥ 0.5	PASS
	2	38	5190	40.14	36.013	≥ 0.5	PASS
	1	46	5230	40.22	35.888	≥ 0.5	PASS
	2	46	5230	39.50	35.818	≥ 0.5	PASS
U-NII-3	1	151	5755	35.10	35.755	≥ 0.5	PASS
	2	151	5755	35.09	35.716	≥ 0.5	PASS
	1	159	5795	35.06	35.756	≥ 0.5	PASS
	2	159	5795	33.86	35.725	≥ 0.5	PASS
	Test Equipment: Please refer to section 5.2						

**ELECTRO MAGNETIC TEST, INC.**

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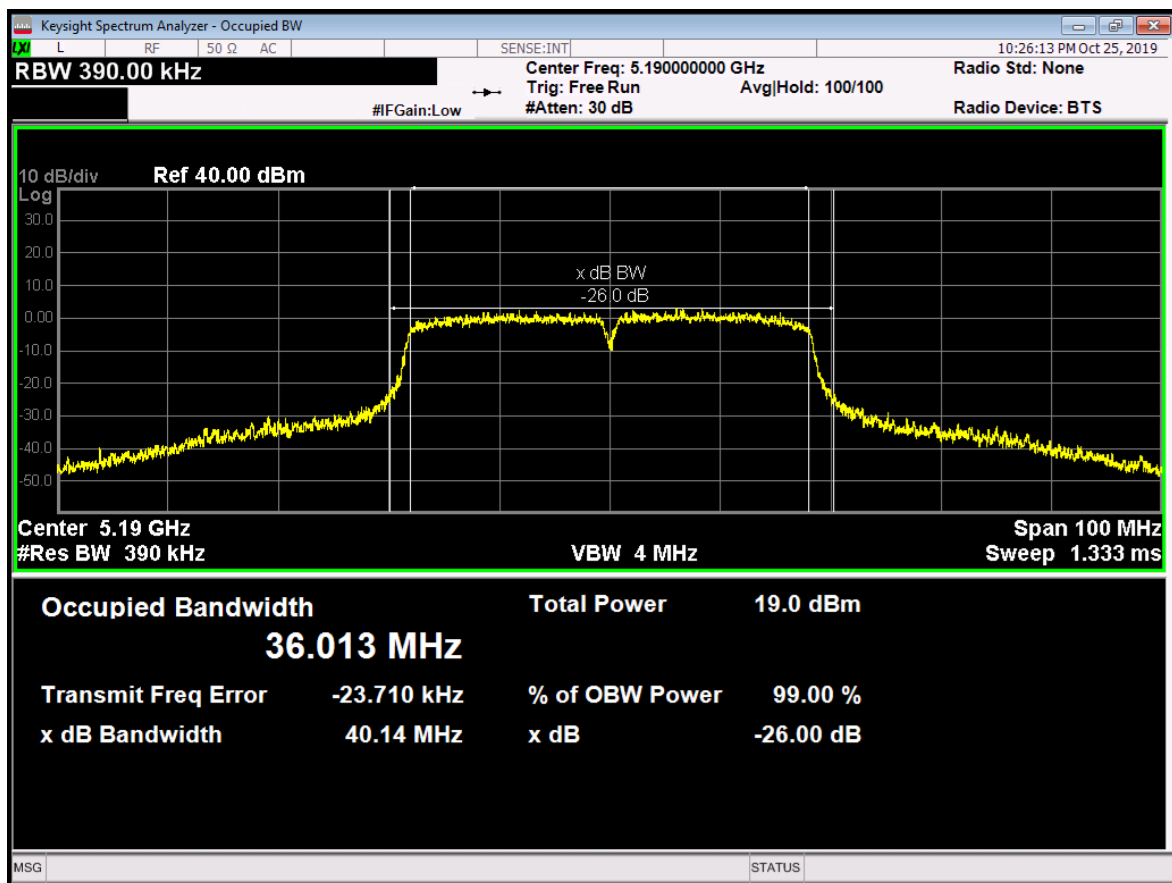
Antenna 1 Channel 38



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Antenna 2 Channel 38



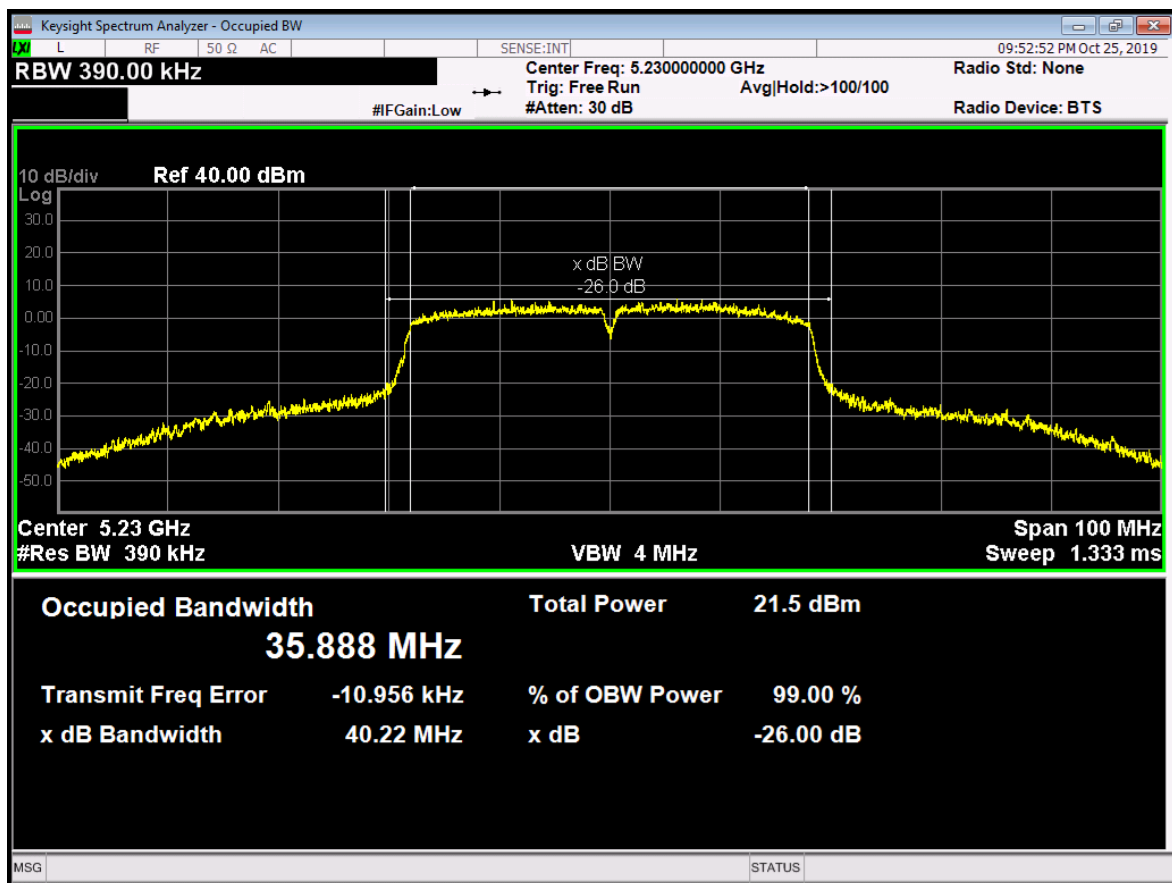


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Antenna 1

Channel 46

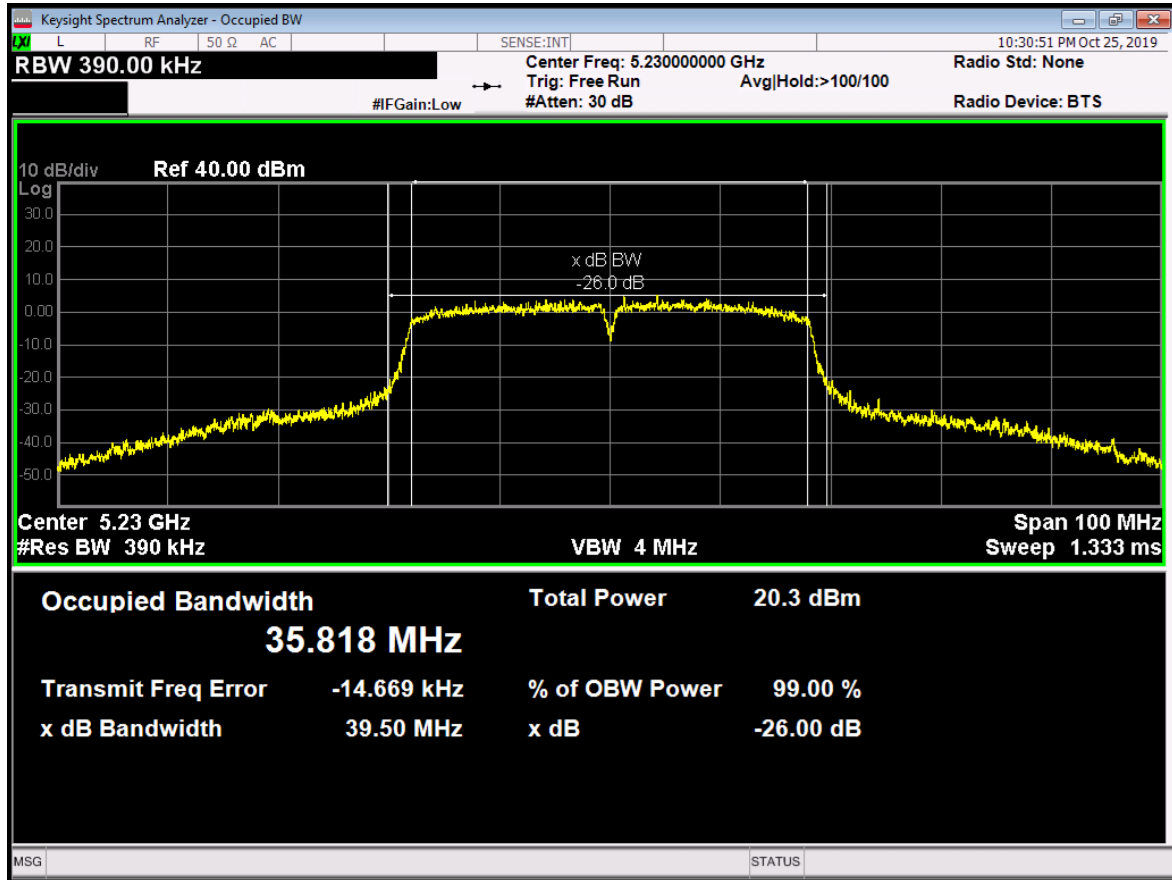




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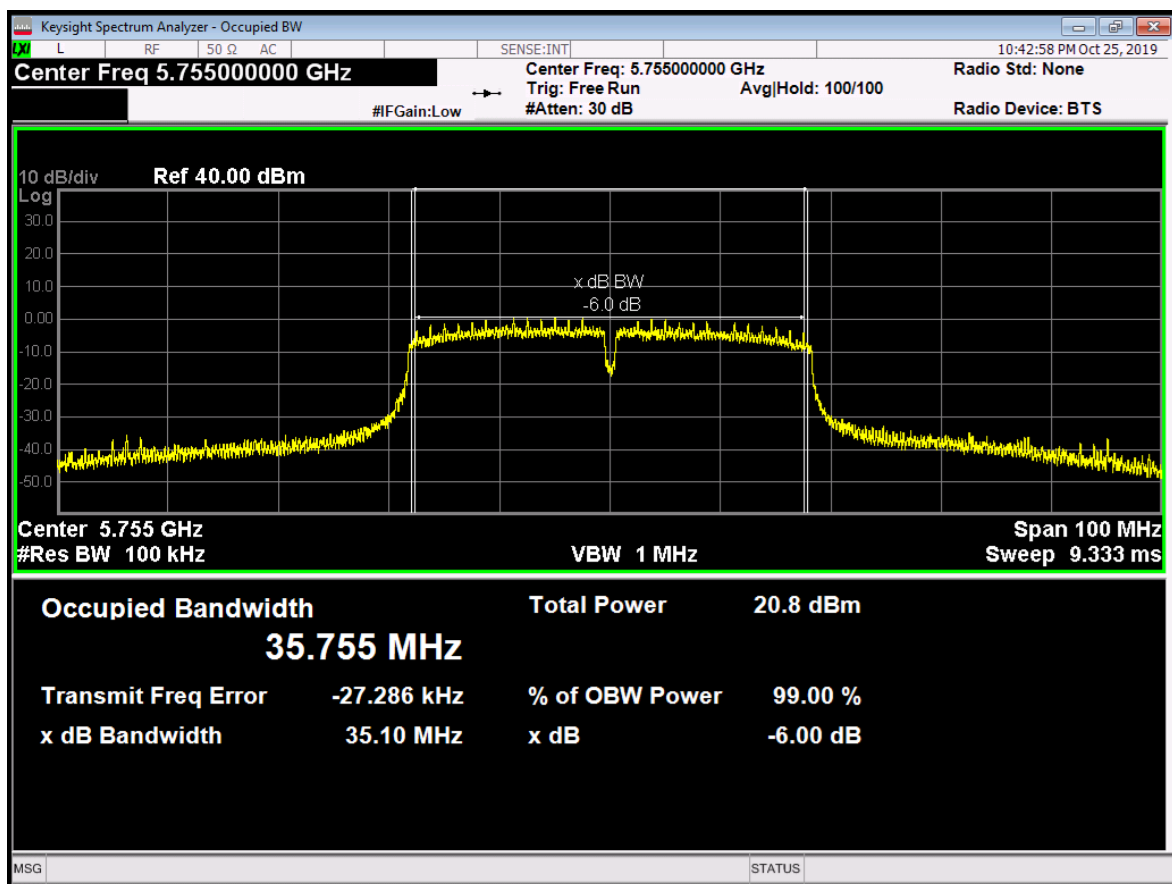
Antenna 2
Channel 46



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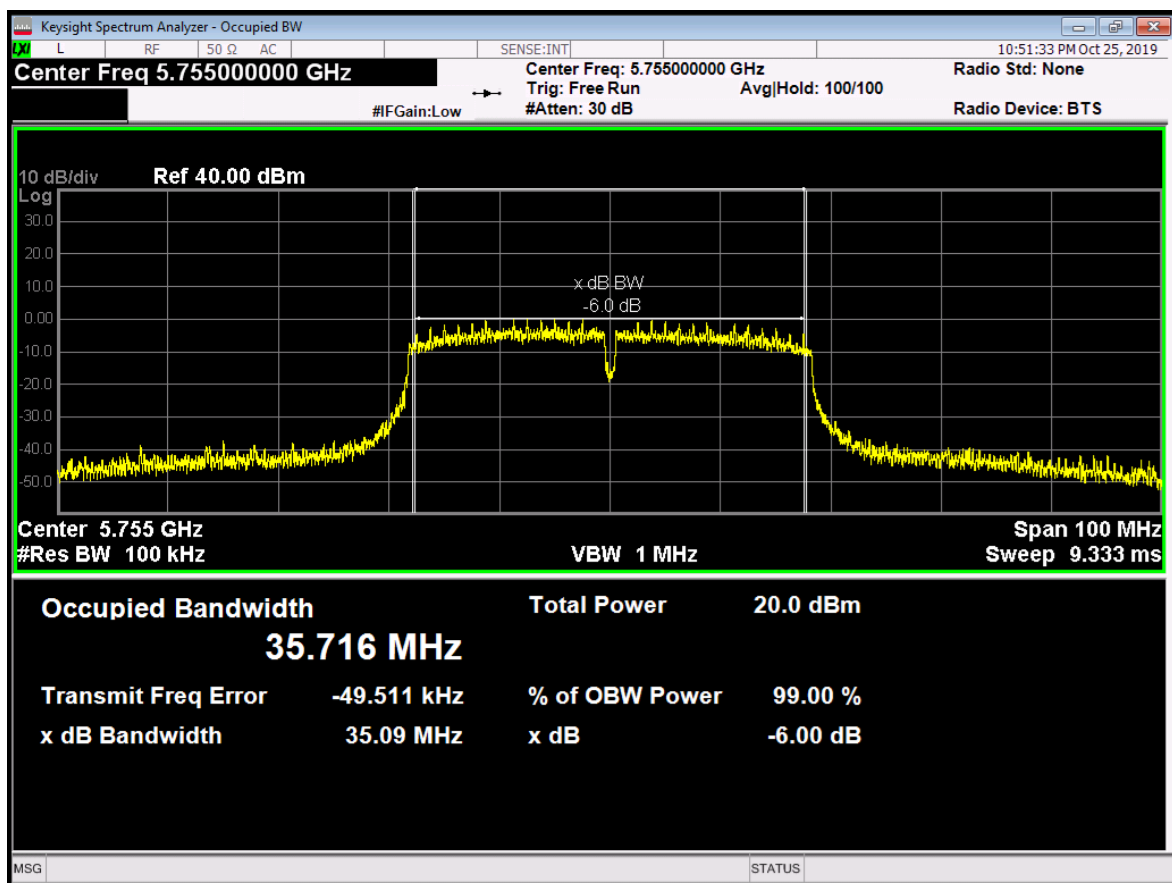
Antenna 1 Channel 151



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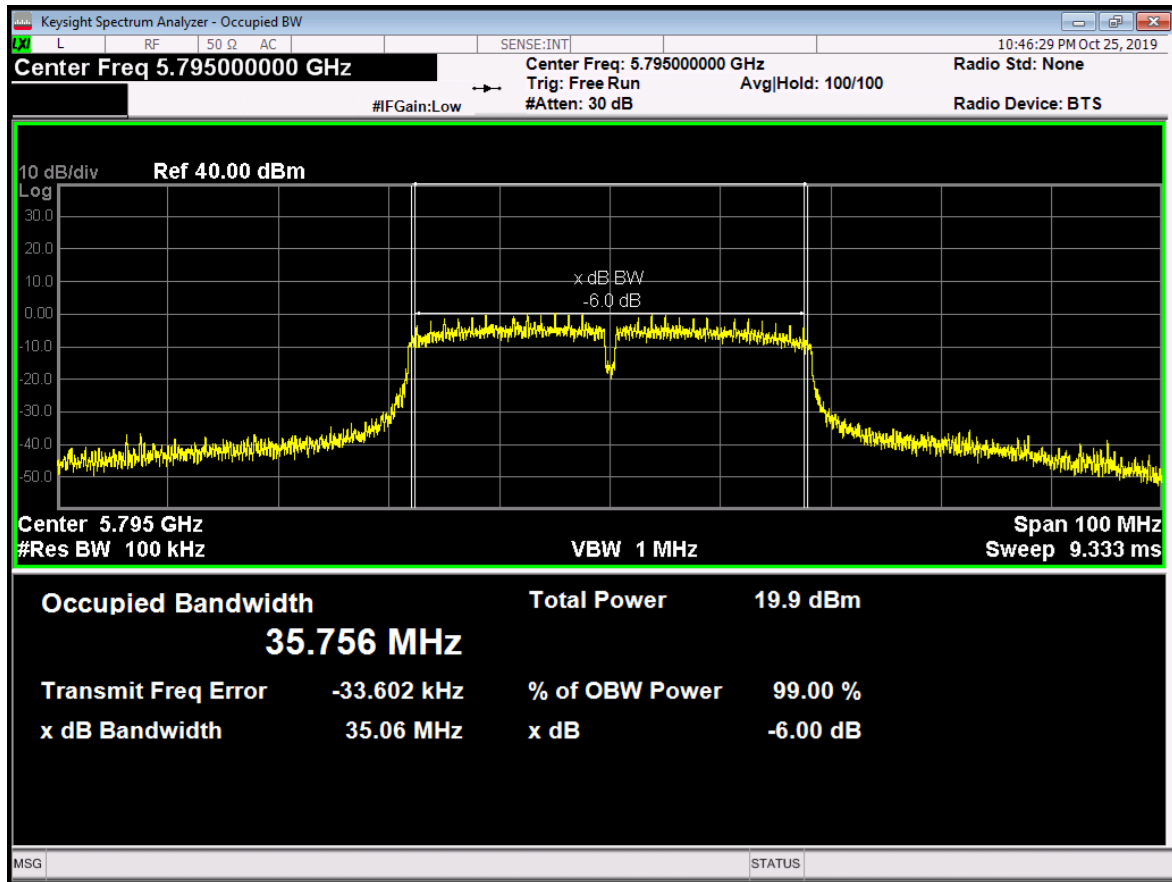
Antenna 2 Channel 151



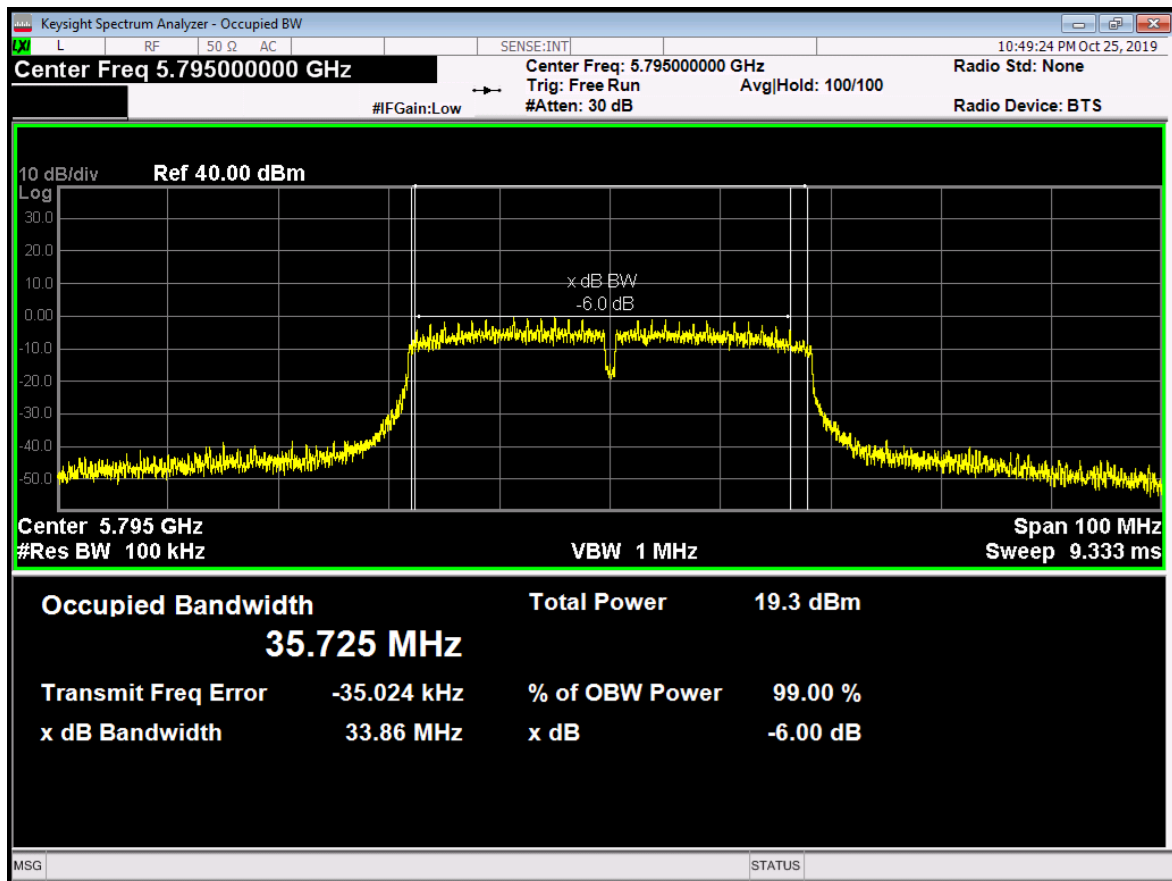
**ELECTRO MAGNETIC TEST, INC.**

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Antenna 1 Channel 159



1547 Plymouth Street, Mountain View, CA 94043 Tel: (650) 965-4000 Fax: (650) 965-3000



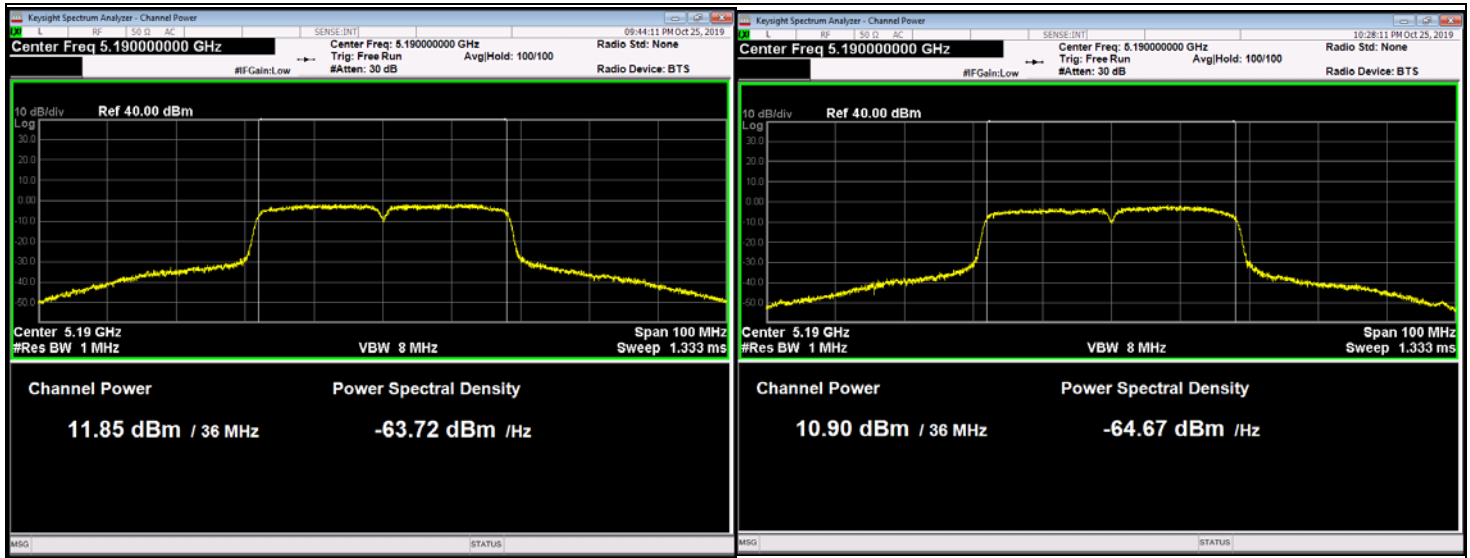


Company:	Skydio, Inc.			Test Date	10/25/2019		
EUT Name	Drone			Test Engineer	Andreas Davidsson		
Model:	SDRC2V1			Test Result	PASS		
Operating Mode	TX Mode						
Mode	Antenna	Test CH	Frequency (MHz)	Raw Power (dBm)	Peak Output Power (dBm)	Limit (dBm)	Conclusion
U-NII-1	1	38	5190	11.85	20.61	≤ 23	Pass
	2	38	5190	10.90			
	1	46	5230	13.12	21.94	≤ 23	Pass
	2	46	5230	12.29			
U-NII-3	1	151	5755	11.78	20.84	≤ 30	Pass
	2	151	5755	11.48			
	1	159	5795	11.84	20.81	≤ 30	Pass
	2	159	5795	11.34			
Test Equipment: Please refer to section 5.2 Peak Output Power Calculation (See Section 7.4.2 for calculation explanation) listed below each screenshot.							

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Antenna 1 + 2 Channel 38

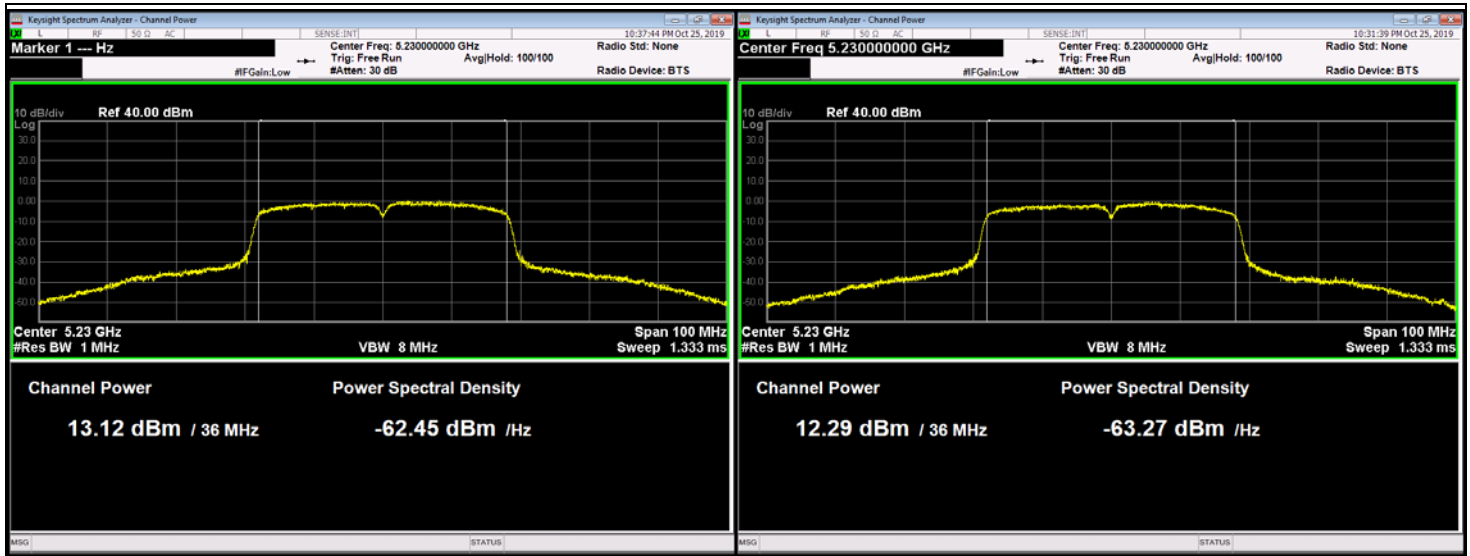


Peak Calculation: $(17.51 + 3.1) = 20.61$

**ELECTRO MAGNETIC TEST, INC.**

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Antenna 1 + 2 Channel 46

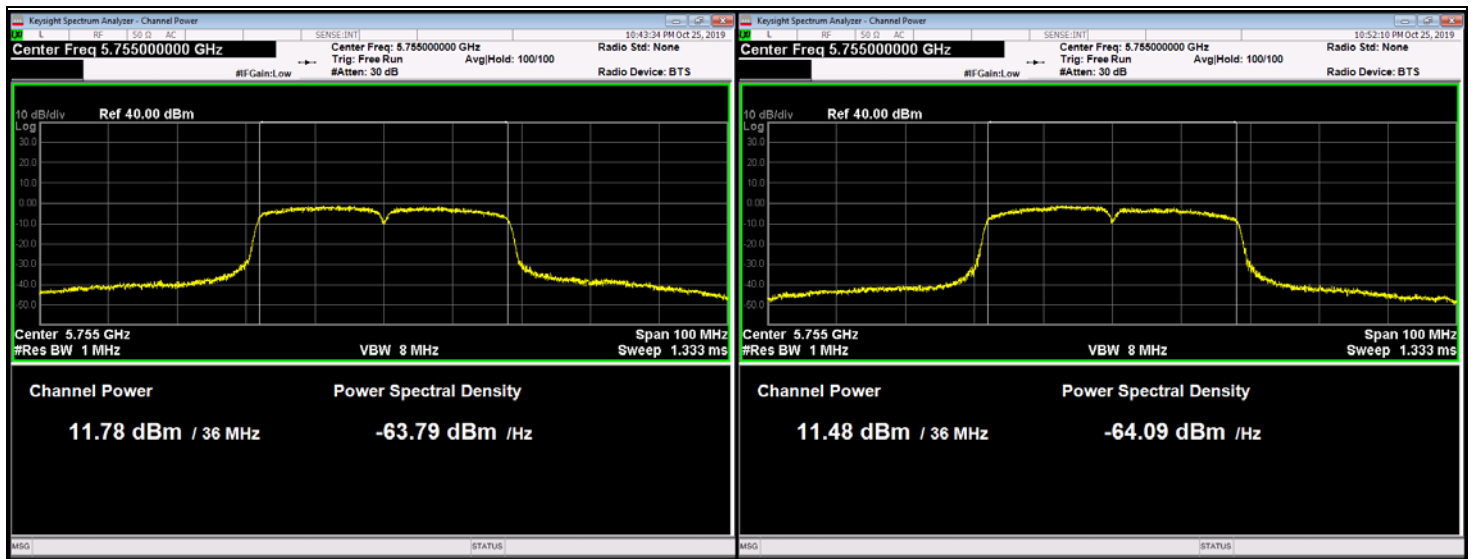


Peak Calculation: $(18.84 + 3.1) = 21.94$

**ELECTRO MAGNETIC TEST, INC.**

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Antenna 1 + 2 Channel 151

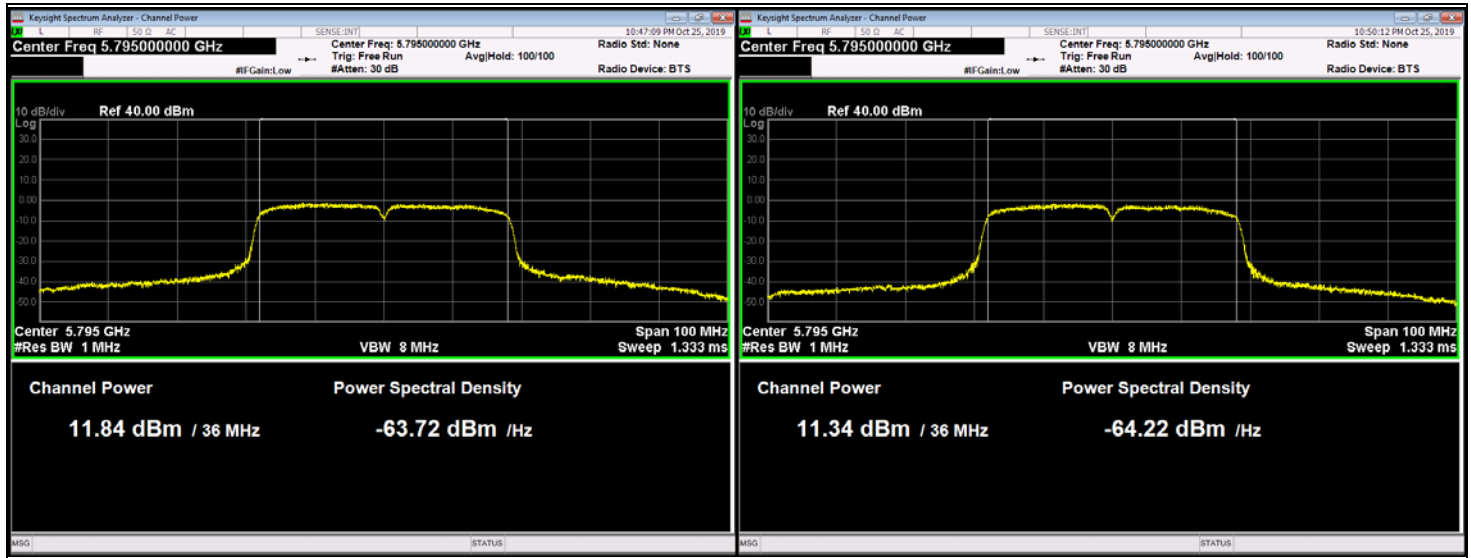


Peak Calculation: $(11.74 + 3.1) = 20.84$

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Antenna 1 + 2 Channel 159



Peak Calculation: $(17.71 + 3.1) = 20.81$



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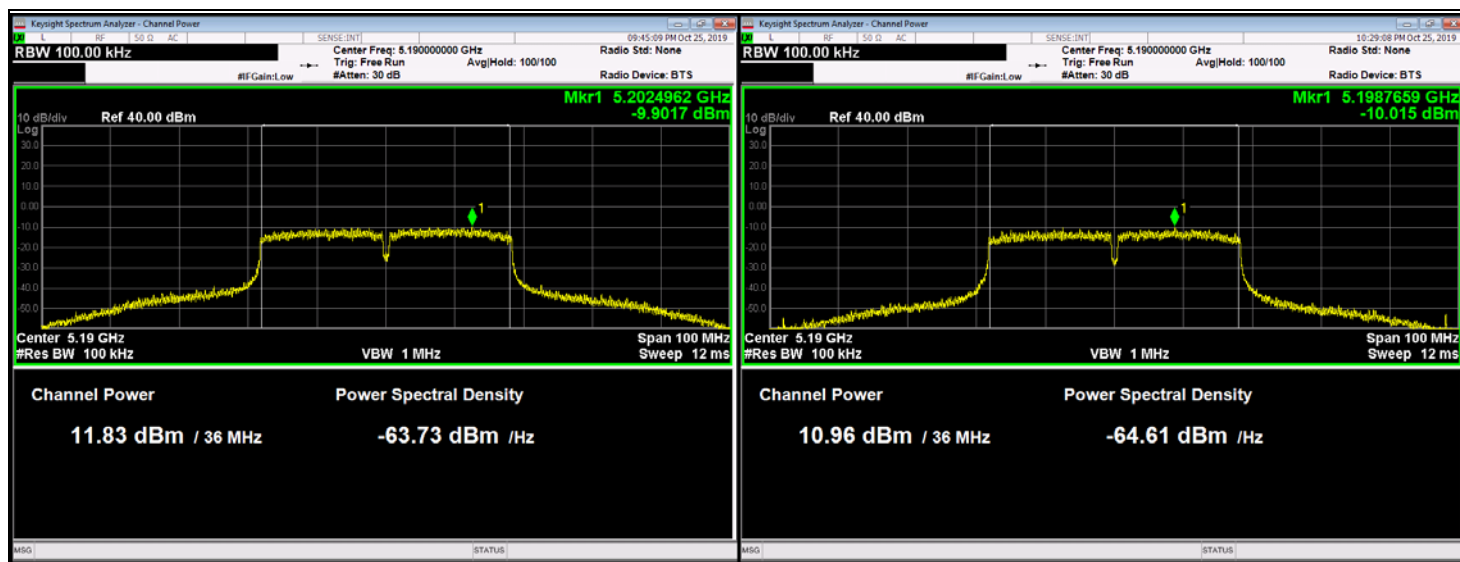
Maximum Power Spectral Density Test Data

Company:	Skydio, Inc.			Test Date	10/25/2019		
EUT Name	Drone			Test Engineer	Andreas Davidsson		
Model:	SDRC2V1			Test Result	PASS		
Operating Mode	TX Mode						
Mode	Antenna	Test CH	Frequency (MHz)	Raw Peak (dBm)	Maximum PSD (dBm)	Limit (dBm)	Conclusion
U-NII-1 (5GHz)	1	38	5190	-9.9017	1.52	≤ 11	Pass
	2	38	5190	-10.015			
	1	46	5230	-8.4507	2.82	≤ 11	Pass
	2	46	5230	-8.9627			
U-NII-3 (5GHz)	1	151	5755	-8.7895	2.27	≤ 30	Pass
	2	151	5755	-9.6707			
	1	159	5795	-9.7860	1.75	≤ 30	Pass
	2	159	5795	-9.6767			
	Test Equipment: Please refer to 5.2						

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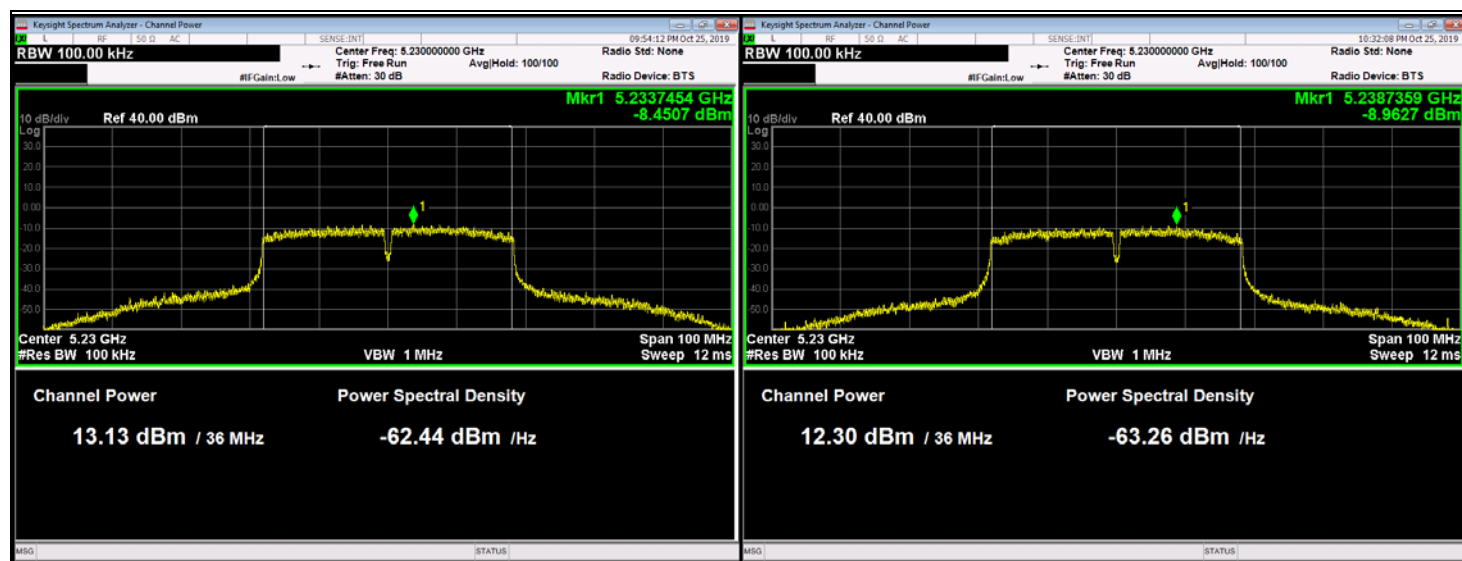
Antenna 1 + 2 Channel 38



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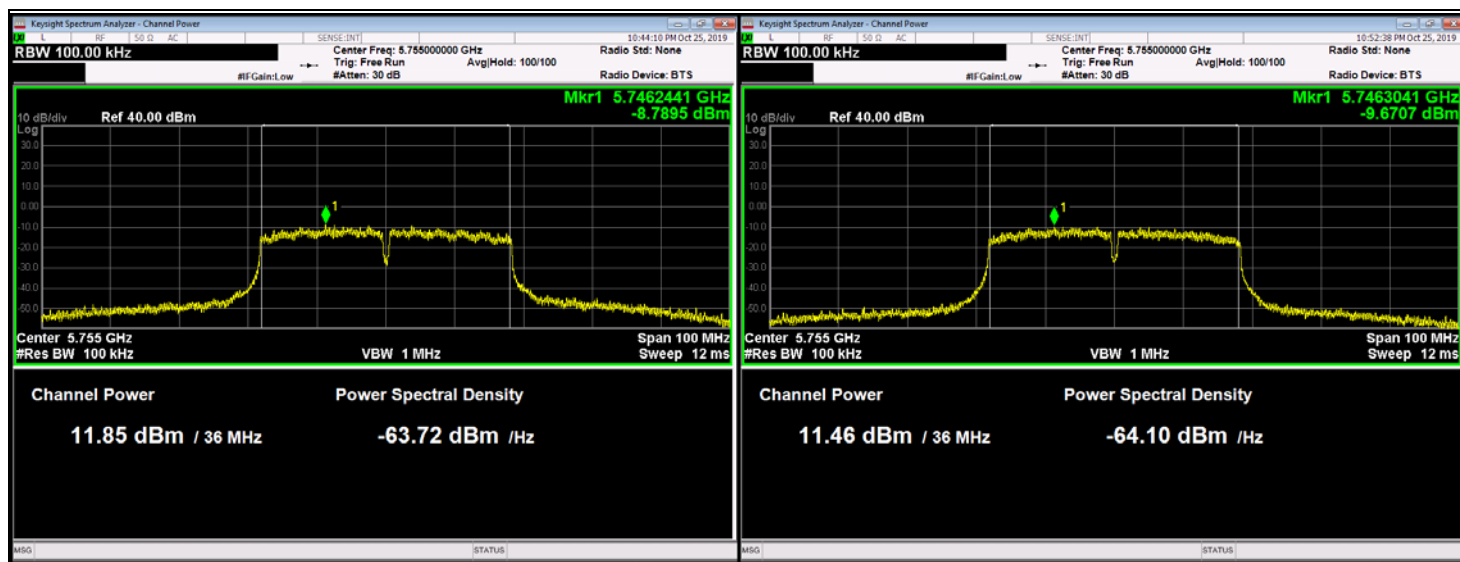
Antenna 1 + 2 Channel 46



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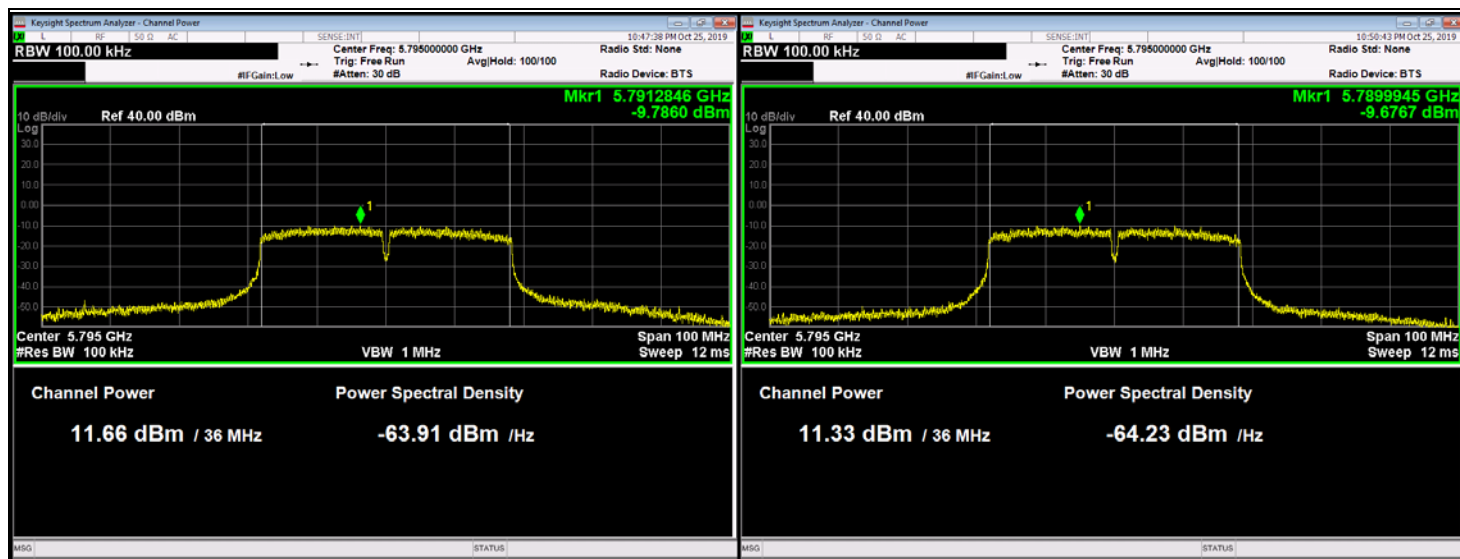
Antenna 1 + 2 Channel 151



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Antenna 1 + 2 Channel 159





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APPENDIX B

TEST SETUP DIAGRAMS



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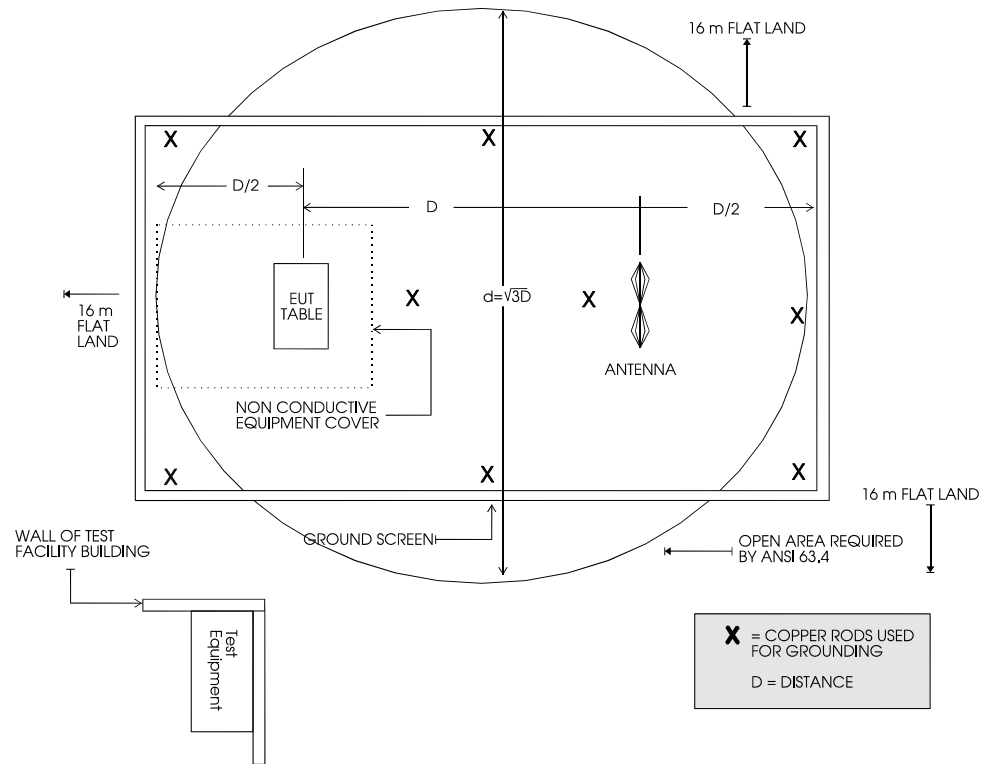


FIGURE 2 - PLOT MAP AND LAYOUT OF TEST SITE "A"

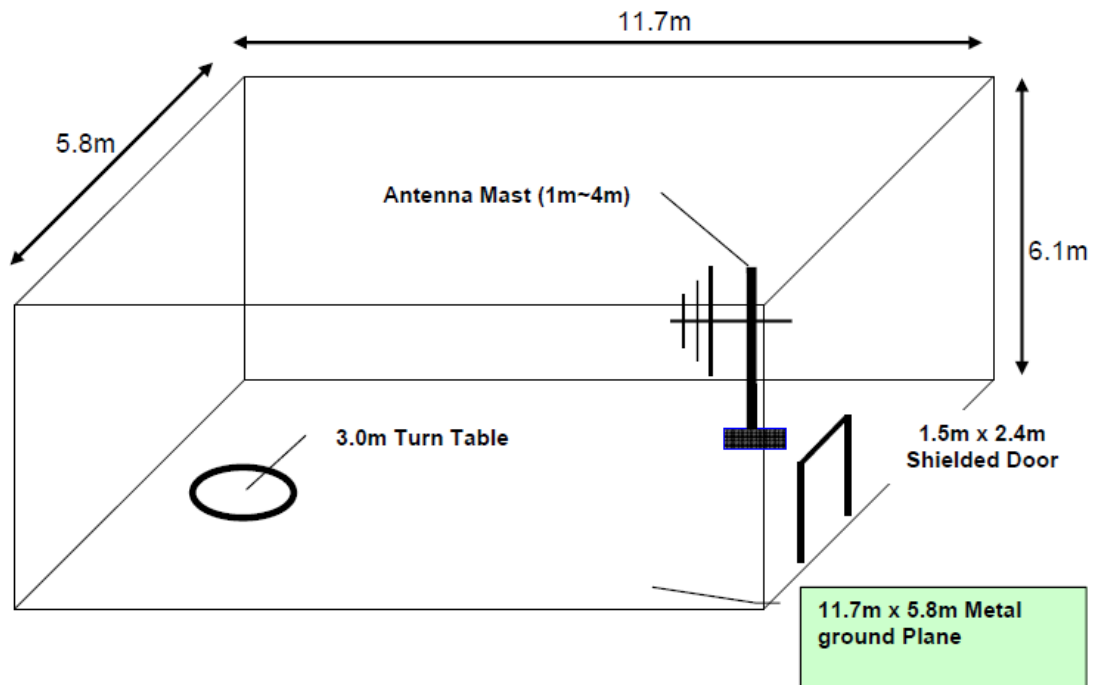


FIGURE 3 - LAYOUT OF 5 METER SEMI-ANECHOIC CHAMBER



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APPENDIX C

MODIFICATIONS TO THE EUT



ELECTRO MAGNETIC TEST, INC.

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MODIFICATIONS TO THE EUT

No modifications were made to the EUT by Electro Magnetic Test, Inc. personnel during the testing.



ELECTRO MAGNETIC TEST, INC.

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APPENDIX D

ADDITIONAL MODELS COVERED UNDER THIS REPORT



ELECTRO MAGNETIC TEST, INC.

1547 Plymouth Street, Mountain View, CA 94043 Tel: (650) 965-4000 Fax: (650) 965-3000

ADDITIONAL MODELS COVERED UNDER THIS REPORT

There are no additional models to be covered under this report.



ELECTRO MAGNETIC TEST, INC.

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End of Report

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