EMT **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

Beacon

Model: SBEC1V1

Prepared for

Skydio, Inc.
114 Hazel Ave. Redwood City, CA 94061

Prepared by: _____
Andreas Davidsson

Approved by: _____
Kevin Bothmann

Electro Magnetic Test, Inc.
1547 Plymouth Street
Mountain View, California 94043
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Date: January 16, 2020

	REPORT BODY	APPENDICES				TOTAL
		A	***B***	***C***	***D***	
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NVLAP TESTING NVLAP LAB CODE 200147-0

Electro Magnetic Test, Inc. (EMT) is accredited by NVLAP, Lab Code 200147-0 to perform the tests listed in this report, except where noted otherwise. This report and the information contained herein represent the test results related only to the sample tested. This report should not be relied upon as an endorsement or certification by EMT or NVLAP for the sample tested, nor does it represent any statement whatsoever as to its marketing status or fitness of the equipment for a particular purpose.

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REVISION HISTORY

VERSION	DATE	COMMENTS	MODIFIED BY
1.0	January 16, 2020	Original Document	-
2.0	February 19, 2020	Updated Following comments from TCB Reviewer.	AD
2.1	March 6, 2020	Updated Following comments from TCB Reviewer.	AD

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A	Radiated and Conducted Data Sheets • Radiated Emissions Test Data (General Requirements, and Restricted Bands) • Conducted Emissions Test Data • Emissions in Non-Restricted Frequency Bands Test Data • Occupied Bandwidth Test Data • Maximum Peak Output Power Test Data • Maximum Peak Power Spectral Density Test Data
B	Test Setup Diagrams
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D	Additional Models Covered Under This Report

LIST OF FIGURES

FIGURE	TITLE
1	Conducted Emissions Test Setup
2	Plot Map And Layout of Test Site
3	Layout of 5 Meter Semi-Anechoic Chamber

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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:	Beacon Model: SBEC1V1 S/N: N/A
Product Description:	An accessory for Skydio drone that serves as range extender and positional accuracy with basic control and functionality. The device can connect to an Android or iOS phone for video streaming live content.
Modifications:	The EUT was not modified during the testing.
Manufacturer:	Skydio, Inc. 114 Hazel Ave. Redwood City, CA 94061
Test Date(s):	November 8, 11, 12, 13, 14, 15, 18, 19, 20, 22, 2019, January 16, 2020.
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]	**N/A, EUT is battery Operated**
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**

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TECHNICAL DESCRIPTION OF THE EUT

Manufacturer:	Skydio, Inc.
Manufacturer Address:	114 Hazel Ave. Redwood City, CA 94061
EUT Name:	Beacon
Model No:	Model: SBEC1V1
Operation frequency:	5180MHz to 5240MHz, and 5725MHz to 5850MHz
Channel Number:	7 / 8
Modulation Technology:	DSSS
Antenna Type:	PCB Antenna
Antenna Gain:	4.0 dBi / 4.5 dBi
Maximum Output Power:	16.20 dBm / 16.14 dBm

Description of Channel:

U-NII-1 (High & Low Power, @ 5, 10MHz)

Bandwidth (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
5+10	36	5180	40	5200	44	5220
	48	5240				

U-NII-3 (High & Low Power, @ 5, 10MHz)

5+10	149	5745	153	5765	157	5785
	161	5805	165	5825		

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1. PURPOSE

This document is a qualification test report based on the Electromagnetic Interference (EMI) tests performed on the Beacon Model: SBEC1V1. 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
Chinmay Shendurnikar	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 November 1, 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 Beacon was connected to the remote laptop through its USB-C Port. During testing the wireless radio was continuously transmitting and the Beacon was testing in its worst case orientation

The EUT uses two wireless radios for operation, one high powered radio and one low powered radio. The radios were tested together for all radiated tests and individually for all conducted tests.

The EUT was tested in three physical configurations across all modes, flat, vertical with antenna facing upwards, and vertical with antenna facing downwards. The vertical with antenna facing upwards orientation in 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 cables were moved to maximize the emissions. 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

Cable #1

This is a 10 ft. unshielded USB cable connecting the EUT to the remote laptop. It has a USB Type C connected on the EUT end and a USB Type A connector on the remote laptop end.

Cable #2

This is a 6 ft. unshielded power cable connecting the fan to the AC outlet. It is hardwired on the EUT end and has a NEMA 1-15P connector on the AC Outlet end.

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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
Beacon (EUT)	Skydio, Inc.	SBEC1V1	N/A	N/A
Fan				
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

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5.2 EMI Test Equipment

EQUIPMENT TYPE	MANU-FACTURER	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/ December 15, 2019	1 Year
LISN	Solar Electronics	Type 21107-50-TS-50-N	21107150701	January 2, 2019 / January 2, 2020	1 Year
LISN	Solar Electronics	Type 21107-50-TS-50-N	21107150702	January 2, 2019 / January 2, 2020	1 Year
LISN	Solar Electronics	Type 21107-50-TS-50-N	21107150703	January 2, 2019 / January 2, 2020	1 Year
LISN	Solar Electronics	Type 21107-50-TS-50-N	21107150704	January 2, 2019 / January 2, 2020	1 Year
Biconical Antenna	Com Power	AB-100	01557	July 20, 2019	1 Year
Log Periodic Antenna	Com Power	AL-100	16001	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	MANU-FACTURER	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, 2019	1 Year
Horn Antenna	ETS-Lindgren	3117	00109294	September 18, 2019	1 Year
Preamplifier	Rohde & Schwarz	TS-PR18	100056	December 12, 2018/ December 12, 2019	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"
	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 grounded through the cable connected through the USB Port.

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)
	µV/m	dBµV/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)

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 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. This was tested against all applicable modes and bandwidths with the worst case being plotted in each measurement range.

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 ±5.1dB 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 ±3.4dB 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 ≥ 500 kHz

7.3.2 Test Procedure

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

RBW: 100 kHz
VBW: ≥ 3 X 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 ±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.

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) ≤ 250 milliwatt or 23 dBm
5.725-5.85 GHz: Peak Output Power (Digital Modulation) ≤ 1Watt or 30 dBm

7.4.2 Test Procedure

RBW > DTS Bandwidth
VBW ≥ 3 x RBW
Span ≥ 3 x RBW
Detector: Peak
Trace Mode: Max Hold
Amplitude Offset: Cable Loss

1. When the trace is completed, mark the peak value
2. Calculate the Peak Output Power by using the following equation:
    a. Peak Power = Conducted Output Power

Cable Loss = 3.9 dBm

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

7.4.3 Test Result

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

EMT ELECTRO MAGNETIC TEST, INC.
1547 Plymouth Street, Mountain View, CA 94043 Tel: (650) 965-4000 Fax: (650) 965-3000

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 = 100KHz
VBW ≥ 3 x RBW
Span ≥ 1.5 x DTS Bandwidth
Detector: Peak
Amplitude Offset: Cable Loss

1.) Connect EUT to Spectrum Analyzer
2.) Record data values and calculate Power Spectral Density by using the following equation:
    a. Power Spectral Density = Conducted Output Power
Cable Loss = 3.9 dBm

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

7.5.3 Test Result

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

EMT ELECTRO MAGNETIC TEST, INC.
1547 Plymouth Street, Mountain View, CA 94043 Tel: (650) 965-4000 Fax: (650) 965-3000

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 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 Beacon.

EMT ELECTRO MAGNETIC TEST, INC.
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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 the theory of operations how this requirement is meet on the EUT.

EMT ELECTRO MAGNETIC TEST, INC.
1547 Plymouth Street, Mountain View, CA 94043 Tel: (650) 965-4000 Fax: (650) 965-3000

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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8. CONCLUSIONS / COMPLIANCE STATEMENT

Based upon the results contained in this report, Electro Magnetic Test, Inc. has determined that the Beacon, Model: SBEC1V1 meets all of the specification limits defined in FCC Title 47, Part 15, Subpart C and Subpart E.

EMT ELECTRO MAGNETIC TEST, INC.
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APPENDIX A

RADIATED AND CONDUCTED EMISSIONS DATA SHEETS

Radiated Emission Test Report

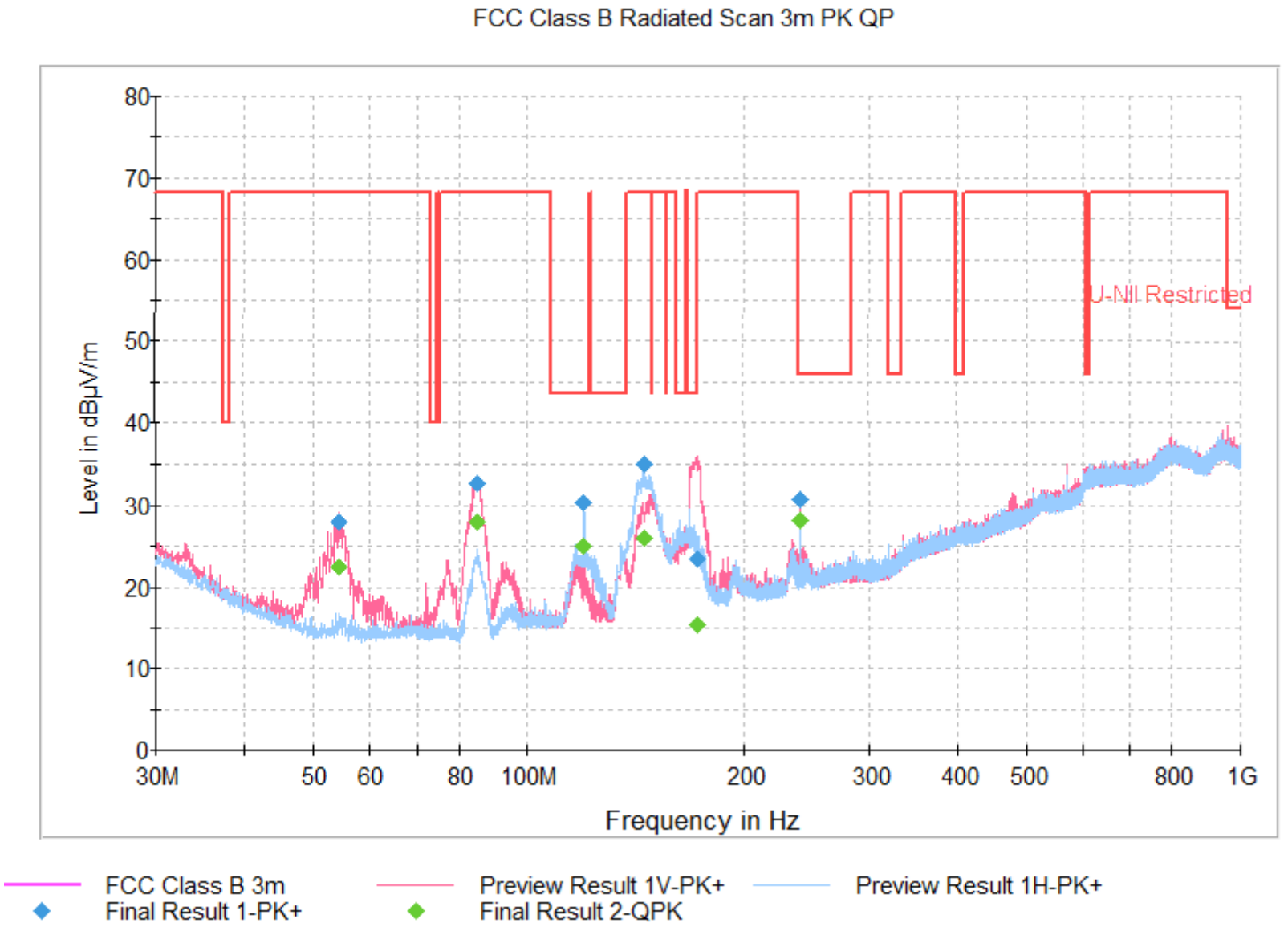
Tested At:
Electro Magnetic Test, Inc.
1547 Plymouth Street
Mountain View, CA 94043
Tel. 650-965-4000
Fax. 650-965-3000

Common Information

Test Description:	FCC Class B Radiated Emissions
Operating Conditions:	Normal
Test Engineer:	Chinmay Shendurnikar

EUT Information

Company Name:	Skydio
EUT Name	Beacon
Model Number:	SBEC1V1
Serial Number:	N/A
Comment:	Omni-Directional Antenna, Vertical, Facing Up, 5MHz, 20dB, 5180


FCC Class B Radiated Scan 3m PK QP
U-NII Restricted
Level in dBµV/m
Frequency in Hz
80
70
60
50
40
30
20
10
0
30M
50
60
80
100M
200
300
400
500
800
1G
FCC Class B 3m
Final Result 1-PK+
Preview Result 1V-PK+
Final Result 2-QPK
Preview Result 1H-PK+

Final Result 1 - 5180MHz @ 5MHz

Frequency (MHz)	MaxPeak (dBµV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
54.240000	27.9	100.0	V	338.0	12.1	40.30	68.20	
85.140000	32.6	100.0	V	246.0	12.3	35.60	68.20	
120.000000	30.4	194.0	H	99.0	13.0	13.10	43.50	
144.780000	35.1	277.0	H	99.0	14.3	33.10	68.20	
172.440000	23.5	143.0	V	78.0	15.3	20.00	43.50	
240.000000	30.8	100.0	V	219.0	17.6	15.20	46.00	

Final Result 2 - 5180MHz @ 5MHz

Frequency (MHz)	QuasiPeak (dBµV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
54.240000	22.4	100.0	V	338.0	12.1	46.00	68.20	
85.140000	27.9	100.0	V	246.0	12.3	46.10	68.20	
120.000000	24.9	194.0	H	99.0	13.0	45.60	68.20	
144.780000	26.1	277.0	H	99.0	14.3	13.70	43.50	
172.440000	15.4	143.0	V	78.0	15.3	12.70	43.50	
240.000000	28.2	100.0	V	219.0	17.6	35.00	68.20	

Final Result 1 - 5220MHz @ 5MHz

Frequency (MHz)	MaxPeak (dBµV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
30.570000	29.3	100.0	V	148.0	20.5	38.90	68.20	
54.270000	27.6	100.0	V	134.0	12.1	40.60	68.20	
84.150000	31.3	100.0	V	84.0	12.3	36.90	68.20	
147.630000	39.0	160.0	H	254.0	14.8	29.20	68.20	
167.970000	27.0	203.0	H	216.0	15.4	16.50	43.50	
942.750000	37.3	218.0	V	327.0	32.0	30.90	68.20	

Final Result 2 - 5220MHz @ 5MHz

Frequency (MHz)	QuasiPeak (dBµV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
30.570000	22.8	100.0	V	148.0	20.5	45.40	68.20	
54.270000	20.5	100.0	V	134.0	12.1	47.70	68.20	
84.150000	26.0	100.0	V	84.0	12.3	42.20	68.20	
147.630000	28.5	160.0	H	254.0	14.8	39.70	68.20	
167.970000	20.7	203.0	H	216.0	15.4	22.80	43.50	
942.750000	31.7	218.0	V	327.0	32.0	36.50	68.20	

Final Result 1 - 5240MHz @ 5MHz

Frequency (MHz)	MaxPeak (dBµV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
53.940000	25.6	100.0	V	107.0	12.1	42.60	68.20	
72.000000	26.9	100.0	V	29.0	12.3	41.30	68.20	
84.480000	28.2	114.0	V	107.0	12.3	40.00	68.20	
120.000000	35.9	178.0	H	270.0	13.0	7.60	43.50	
124.920000	23.7	100.0	V	148.0	13.2	19.80	43.50	
150.660000	33.4	218.0	H	239.0	15.2	34.80	68.20	
600.000000	33.2	138.0	V	347.0	27.8	35.00	68.20	

Final Result 2 - 5240MHz @ 5MHz

Frequency (MHz)	QuasiPeak (dBµV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
53.940000	20.6	100.0	V	107.0	12.1	47.60	68.20	
72.000000	25.0	100.0	V	29.0	12.3	43.20	68.20	
84.480000	24.2	114.0	V	107.0	12.3	44.00	68.20	
120.000000	30.6	178.0	H	270.0	13.0	12.90	43.50	
124.920000	15.6	100.0	V	148.0	13.2	27.90	43.50	
150.660000	23.8	218.0	H	239.0	15.2	44.40	68.20	
600.000000	27.8	138.0	V	347.0	27.8	40.40	68.20	

Final Result 1 - 5745MHz @ 5MHz

Frequency (MHz)	MaxPeak (dBµV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
30.630000	27.5	159.0	V	352.0	20.5	40.70	68.20	
54.510000	25.1	100.0	V	114.0	12.1	43.10	68.20	
72.000000	26.0	100.0	V	51.0	12.3	42.20	68.20	
84.150000	27.8	100.0	V	98.0	12.3	40.40	68.20	
120.000000	33.3	274.0	H	85.0	13.0	10.20	43.50	
146.130000	37.8	220.0	H	269.0	14.5	30.40	68.20	
571.200000	32.8	266.0	V	239.0	27.0	35.40	68.20	

Final Result 2 - 5745MHz @ 5MHz

Frequency (MHz)	QuasiPeak (dBµV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
30.630000	20.2	159.0	V	352.0	20.5	48.00	68.20	
54.510000	19.9	100.0	V	114.0	12.1	48.30	68.20	
72.000000	23.7	100.0	V	51.0	12.3	44.50	68.20	
84.150000	22.5	100.0	V	98.0	12.3	45.70	68.20	
120.000000	28.4	274.0	H	85.0	13.0	15.10	43.50	
146.130000	28.1	220.0	H	269.0	14.5	40.10	68.20	
571.200000	25.6	266.0	V	239.0	27.0	42.60	68.20	

Final Result 1 - 5785MHz @ 5MHz

Frequency (MHz)	MaxPeak (dBµV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
30.000000	27.2	119.0	V	304.0	20.9	41.00	68.20	
72.000000	27.7	100.0	V	338.0	12.3	40.50	68.20	
84.210000	29.3	100.0	V	351.0	12.3	38.90	68.20	
120.000000	33.9	148.0	V	175.0	13.0	9.60	43.50	
120.030000	35.4	171.0	H	78.0	13.0	8.10	43.50	
149.130000	36.0	227.0	H	261.0	15.0	32.20	68.20	
571.200000	31.5	277.0	V	359.0	27.0	36.70	68.20	

Final Result 2 - 5785MHz @ 5MHz

Frequency (MHz)	QuasiPeak (dBµV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
30.000000	20.5	119.0	V	304.0	20.9	47.70	68.20	
72.000000	25.5	100.0	V	338.0	12.3	42.70	68.20	
84.210000	25.0	100.0	V	351.0	12.3	43.20	68.20	
120.000000	28.0	148.0	V	175.0	13.0	15.50	43.50	
120.030000	28.6	171.0	H	78.0	13.0	14.90	43.50	
149.130000	26.4	227.0	H	261.0	15.0	41.80	68.20	
571.200000	25.5	277.0	V	359.0	27.0	42.70	68.20	

Final Result 1 - 5825MHz @ 5MHz

Frequency (MHz)	MaxPeak (dBµV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
30.960000	25.5	159.0	V	81.0	20.3	42.70	68.20	
54.480000	25.6	100.0	V	79.0	12.1	42.60	68.20	
83.790000	29.0	100.0	V	106.0	12.3	39.20	68.20	
120.000000	34.7	287.0	H	100.0	13.0	8.80	43.50	
147.330000	31.6	286.0	V	352.0	14.7	36.60	68.20	
147.480000	38.0	142.0	H	260.0	14.7	30.20	68.20	
821.040000	36.8	393.0	V	359.0	31.4	31.40	68.20	

Final Result 2 - 5825MHz @ 5MHz

Frequency (MHz)	QuasiPeak (dBµV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
30.960000	18.9	159.0	V	81.0	20.3	49.30	68.20	
54.480000	19.7	100.0	V	79.0	12.1	48.50	68.20	
83.790000	24.0	100.0	V	106.0	12.3	44.20	68.20	
120.000000	29.4	287.0	H	100.0	13.0	14.10	43.50	
147.330000	22.1	286.0	V	352.0	14.7	46.10	68.20	
147.480000	28.7	142.0	H	260.0	14.7	39.50	68.20	
821.040000	31.1	393.0	V	359.0	31.4	37.10	68.20	

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

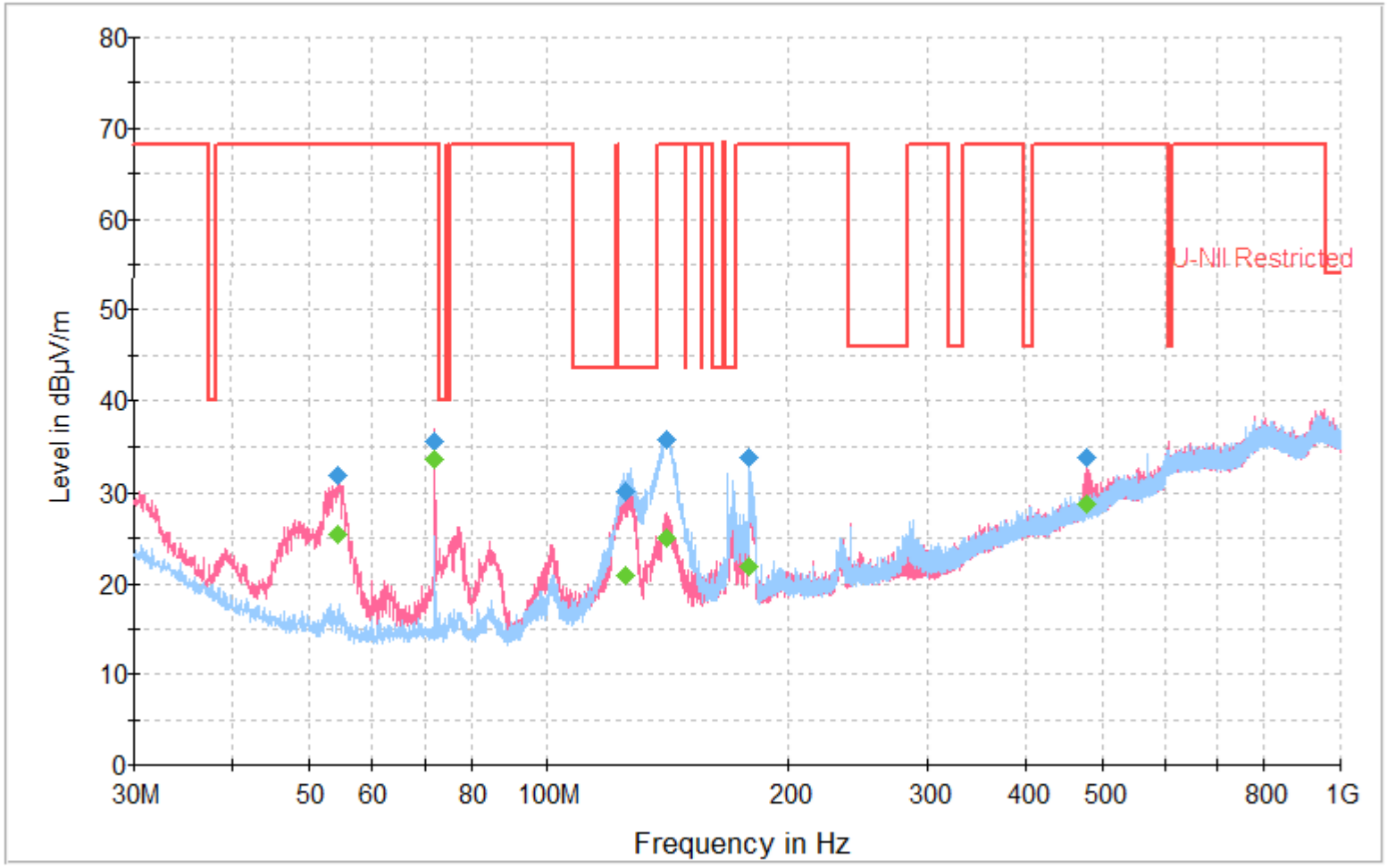
Common Information

Test Description:	FCC Class B Radiated Emissions
Operating Conditions:	Normal
Test Engineer:	Chinmay Shendurnikar

EUT Information

Company Name:	Skydio
EUT Name	Beacon
Model Number:	SBEC1V1
Serial Number:	N/A
Comment:	Omni-Directional Antenna, Vertical, Facing Up, 10MHz, 20dB, 5180

FCC Class B Radiated Scan 3m PK QP



FCC Class B 3m
Preview Result 1V-PK+
Preview Result 1H-PK+
Final Result 1-PK+
Final Result 2-QPK

Final Result 1 - 5180MHz @ 10MHz

Frequency (MHz)	MaxPeak (dBµV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
54.390000	32.0	100.0	V	353.0	12.1	36.20	68.20	
72.000000	35.6	119.0	V	9.0	12.3	32.60	68.20	
125.580000	30.2	100.0	V	162.0	13.2	13.30	43.50	
140.820000	35.9	217.0	H	72.0	13.7	32.30	68.20	
178.830000	34.0	188.0	H	94.0	15.5	34.20	68.20	
477.180000	33.8	100.0	V	92.0	24.9	34.40	68.20	

Final Result 2 - 5180MHz @ 10MHz

Frequency (MHz)	QuasiPeak (dBµV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
54.390000	25.5	100.0	V	353.0	12.1	42.70	68.20	
72.000000	33.7	119.0	V	9.0	12.3	34.50	68.20	
125.580000	20.8	100.0	V	162.0	13.2	22.70	43.50	
140.820000	25.1	217.0	H	72.0	13.7	43.10	68.20	
178.830000	21.9	188.0	H	94.0	15.5	46.30	68.20	
477.180000	28.7	100.0	V	92.0	24.9	39.50	68.20	

Final Result 1 - 5220MHz @ 10MHz

Frequency (MHz)	MaxPeak (dBµV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
32.340000	23.2	166.0	H	93.0	19.5	45.00	68.20	
54.480000	31.5	100.0	V	9.0	12.1	36.70	68.20	
72.000000	35.6	100.0	V	359.0	12.3	32.60	68.20	
142.980000	34.5	208.0	H	71.0	14.1	33.70	68.20	
168.000000	32.8	187.0	H	262.0	15.4	10.70	43.50	
479.970000	33.8	100.0	V	94.0	24.9	34.40	68.20	
800.610000	37.0	241.0	V	86.0	31.6	31.20	68.20	

Final Result 2 - 5220MHz @ 10MHz

Frequency (MHz)	QuasiPeak (dBµV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
32.340000	17.3	166.0	H	93.0	19.5	50.90	68.20	
54.480000	24.7	100.0	V	9.0	12.1	43.50	68.20	
72.000000	33.1	100.0	V	359.0	12.3	35.10	68.20	
142.980000	24.0	208.0	H	71.0	14.1	44.20	68.20	
168.000000	29.3	187.0	H	262.0	15.4	14.20	43.50	
479.970000	28.4	100.0	V	94.0	24.9	39.80	68.20	
800.610000	31.3	241.0	V	86.0	31.6	36.90	68.20	

Final Result 1 - 5240MHz @ 10MHz

Frequency (MHz)	MaxPeak (dBµV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
53.940000	31.3	100.0	V	356.0	12.1	36.90	68.20	
72.000000	33.6	100.0	V	302.0	12.3	34.60	68.20	
76.440000	27.9	149.0	V	298.0	12.3	40.30	68.20	
84.630000	29.3	100.0	V	180.0	12.3	38.90	68.20	
144.570000	33.2	229.0	H	78.0	14.3	35.00	68.20	
168.000000	33.1	217.0	H	85.0	15.4	10.40	43.50	
941.820000	37.9	252.0	H	164.0	32.0	30.30	68.20	

Final Result 2 - 5240MHz @ 10MHz

Frequency (MHz)	QuasiPeak (dBµV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
53.940000	24.6	100.0	V	356.0	12.1	43.60	68.20	
72.000000	30.6	100.0	V	302.0	12.3	37.60	68.20	
76.440000	22.1	149.0	V	298.0	12.3	46.10	68.20	
84.630000	24.5	100.0	V	180.0	12.3	43.70	68.20	
144.570000	23.0	229.0	H	78.0	14.3	45.20	68.20	
168.000000	30.6	217.0	H	85.0	15.4	12.90	43.50	
941.820000	31.6	252.0	H	164.0	32.0	36.60	68.20	

Final Result 1 - 5745MHz @ 10MHz

Frequency (MHz)	MaxPeak (dBµV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
54.660000	35.4	100.0	V	134.0	12.1	32.80	68.20	
72.000000	37.8	100.0	V	359.0	12.3	30.40	68.20	
77.400000	31.5	125.0	V	348.0	12.2	36.70	68.20	
84.570000	26.7	165.0	V	210.0	12.3	41.50	68.20	
142.920000	35.1	200.0	H	267.0	14.0	33.10	68.20	
168.000000	31.1	206.0	H	90.0	15.4	12.40	43.50	
800.400000	37.2	168.0	V	171.0	31.6	31.00	68.20	

Final Result 2 - 5745MHz @ 10MHz

Frequency (MHz)	QuasiPeak (dBµV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
54.660000	23.8	100.0	V	134.0	12.1	44.40	68.20	
72.000000	34.8	100.0	V	359.0	12.3	33.40	68.20	
77.400000	21.6	125.0	V	348.0	12.2	46.60	68.20	
84.570000	21.9	165.0	V	210.0	12.3	46.30	68.20	
142.920000	24.4	200.0	H	267.0	14.0	43.80	68.20	
168.000000	28.4	206.0	H	90.0	15.4	15.10	43.50	
800.400000	31.3	168.0	V	171.0	31.6	36.90	68.20	

Final Result 1 - 5785MHz @ 5MHz

Frequency (MHz)	MaxPeak (dBµV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
54.570000	24.4	100.0	V	212.0	12.1	43.80	68.20	
72.000000	22.7	114.0	V	72.0	12.3	45.50	68.20	
83.970000	26.1	125.0	V	0.0	12.3	42.10	68.20	
120.000000	24.7	240.0	H	71.0	13.0	18.80	43.50	
240.000000	27.0	100.0	V	120.0	17.6	19.00	46.00	
772.200000	36.2	379.0	H	0.0	30.6	32.00	68.20	

Final Result 2 - 5785MHz @ 5MHz

Frequency (MHz)	QuasiPeak (dBµV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
54.570000	20.0	100.0	V	212.0	12.1	48.20	68.20	
72.000000	18.8	114.0	V	72.0	12.3	49.40	68.20	
83.970000	21.5	125.0	V	0.0	12.3	46.70	68.20	
120.000000	19.3	240.0	H	71.0	13.0	24.20	43.50	
240.000000	23.8	100.0	V	120.0	17.6	22.20	46.00	
772.200000	30.3	379.0	H	0.0	30.6	37.90	68.20	

Final Result 1 - 5825MHz @ 10MHz

Frequency (MHz)	MaxPeak (dBµV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
55.260000	26.5	100.0	V	233.0	12.0	41.70	68.20	
72.000000	24.7	100.0	V	324.0	12.3	43.50	68.20	
83.940000	27.5	114.0	V	147.0	12.3	40.70	68.20	
120.000000	31.3	276.0	H	90.0	13.0	12.20	43.50	
168.000000	32.6	200.0	H	259.0	15.4	10.90	43.50	
607.980000	37.3	100.0	V	16.0	28.1	30.90	68.20	
805.350000	38.0	211.0	V	51.0	31.6	30.20	68.20	

Final Result 2 - 5825MHz @ 10MHz

Frequency (MHz)	QuasiPeak (dBµV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
55.260000	22.2	100.0	V	233.0	12.0	46.00	68.20	
72.000000	22.1	100.0	V	324.0	12.3	46.10	68.20	
83.940000	22.6	114.0	V	147.0	12.3	45.60	68.20	
120.000000	29.8	276.0	H	90.0	13.0	13.70	43.50	
168.000000	30.8	200.0	H	259.0	15.4	12.70	43.50	
607.980000	33.2	100.0	V	16.0	28.1	35.00	68.20	
805.350000	31.3	211.0	V	51.0	31.6	36.90	68.20	

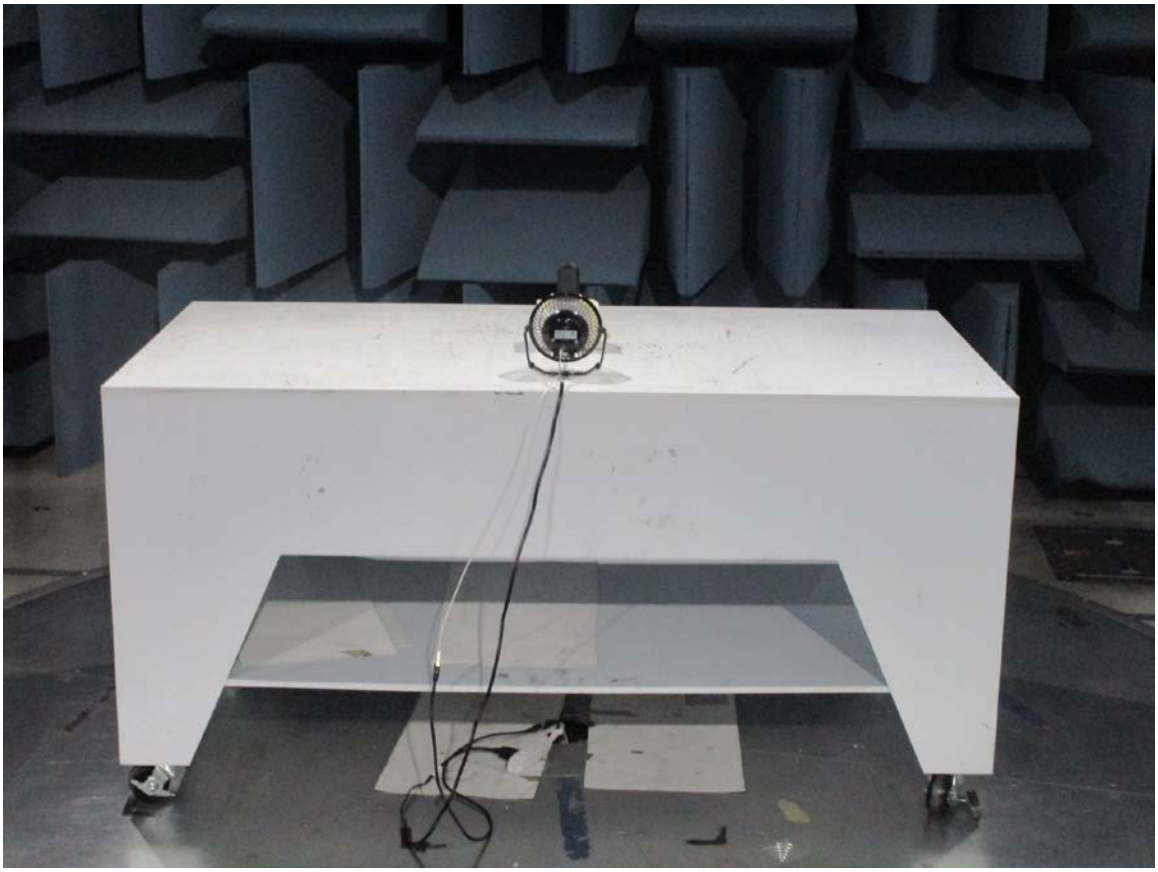
EMT ELECTRO MAGNETIC TEST, INC.
1547 Plymouth Street, Mountain View, CA 94043 Tel: (650) 965-4000 Fax: (650) 965-3000

FRONT VIEW

Skydio, Inc.
Beacon
Model: SBEC1V1
CISPR 22/FCC Class B – Radiated Emissions

PHOTOGRAPH SHOWING THE EUT CONFIGURATION FOR MAXIMUM EMISSIONS

EMT ELECTRO MAGNETIC TEST, INC.
1547 Plymouth Street, Mountain View, CA 94043 Tel: (650) 965-4000 Fax: (650) 965-3000



REAR VIEW

Skydio, Inc.
Beacon
Model: SBEC1V1
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

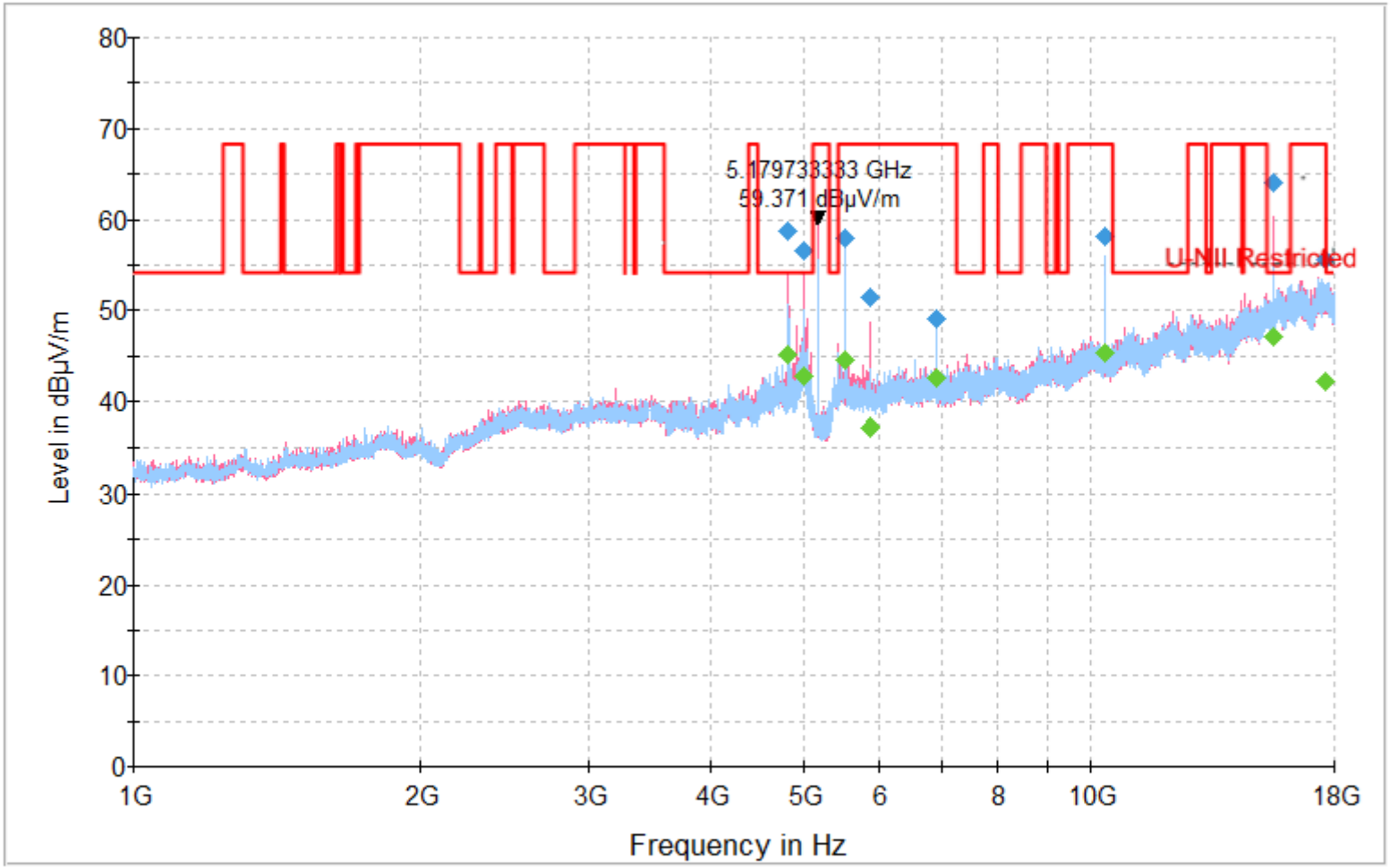
Common Information

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

EUT Information

Company Name:	Skydio
EUT Name	Beacon
Model Number:	SBEC1V1
Serial Number:	N/A
Comment:	Omni-Directional Antenna, Vertical, Facing Up, 5MHz, 20dB, 5180

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



Final Result 1 - 5180MHz @ 5MHz

Frequency (MHz)	MaxPeak (dBµV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
4828.400000	58.8	281.0	V	30.0	5.6	15.20	74.00	
5004.633333	56.6	252.0	V	15.0	5.9	17.40	74.00	
5531.633333	58.0	377.0	V	94.0	7.1	10.20	68.20	
5885.233333	51.4	358.0	V	344.0	7.5	16.80	68.20	
6906.933333	49.1	400.0	H	309.0	9.4	19.10	68.20	
10360.766667	58.2	400.0	H	237.0	14.5	10.00	68.20	
15540.666667	64.1	141.0	V	90.0	21.0	9.90	74.00	
17609.566667	55.5	400.0	V	145.0	23.0	12.70	68.20	

Final Result 2 - 5180MHz @ 5MHz

Frequency (MHz)	Average (dBµV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
4828.400000	45.1	281.0	V	30.0	5.6	8.90	54.00	
5004.633333	42.8	252.0	V	15.0	5.9	11.20	54.00	
5531.633333	44.6	377.0	V	94.0	7.1	23.60	68.20	
5885.233333	37.3	358.0	V	344.0	7.5	30.90	68.20	
6906.933333	42.5	400.0	H	309.0	9.4	25.70	68.20	
10360.766667	45.2	400.0	H	237.0	14.5	23.00	68.20	
15540.666667	47.2	141.0	V	90.0	21.0	6.80	54.00	
17609.566667	42.1	400.0	V	145.0	23.0	26.10	68.20	

Final Result 1 - 5220MHz @ 5MHz

Frequency (MHz)	MaxPeak (dBµV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
4868.633333	56.9	372.0	V	95.0	5.7	17.10	74.00	
5044.300000	55.6	288.0	V	48.0	5.9	18.40	74.00	
5573.566667	60.0	316.0	V	348.0	7.2	8.20	68.20	
6960.766667	52.1	400.0	H	122.0	9.3	16.10	68.20	
10441.233333	57.7	389.0	H	175.0	14.5	10.50	68.20	
15659.100000	71.7	333.0	V	76.0	21.5	2.30	74.00	

Final Result 2 - 5220MHz @ 5MHz

Frequency (MHz)	Average (dBµV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
4868.633333	43.7	372.0	V	95.0	5.7	10.30	54.00	
5044.300000	41.2	288.0	V	48.0	5.9	12.80	54.00	
5573.566667	45.1	316.0	V	348.0	7.2	23.10	68.20	
6960.766667	47.6	400.0	H	122.0	9.3	20.60	68.20	
10441.233333	43.1	389.0	H	175.0	14.5	25.10	68.20	
15659.100000	50.8	333.0	V	76.0	21.5	3.20	54.00	

Final Result 1 - 5240MHz @ 5MHz

Frequency (MHz)	MaxPeak (dBµV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
4887.900000	54.5	293.0	H	35.0	5.7	19.50	74.00	
4888.466667	54.9	264.0	V	351.0	5.7	19.10	74.00	
5065.833333	50.9	262.0	V	71.0	5.9	23.10	74.00	
5415.466667	54.3	400.0	V	85.0	6.8	19.70	74.00	
5591.700000	58.6	295.0	H	35.0	7.2	9.60	68.20	
5593.400000	59.4	279.0	V	15.0	7.2	8.80	68.20	
10480.900000	58.6	190.0	H	263.0	14.5	9.60	68.20	
15722.000000	69.2	375.0	V	108.0	21.6	4.80	74.00	
15722.000000	66.6	166.0	H	118.0	21.6	7.40	74.00	

Final Result 2 - 5240MHz @ 5MHz

Frequency (MHz)	Average (dBµV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
4887.900000	40.4	293.0	H	35.0	5.7	13.60	54.00	
4888.466667	40.8	264.0	V	351.0	5.7	13.20	54.00	
5065.833333	36.7	262.0	V	71.0	5.9	17.30	54.00	
5415.466667	38.9	400.0	V	85.0	6.8	15.10	54.00	
5591.700000	43.9	295.0	H	35.0	7.2	24.30	68.20	
5593.400000	44.0	279.0	V	15.0	7.2	24.20	68.20	
10480.900000	44.2	190.0	H	263.0	14.5	24.00	68.20	
15722.000000	50.6	375.0	V	108.0	21.6	3.40	54.00	
15722.000000	48.6	166.0	H	118.0	21.6	5.40	54.00	

Final Result 1 - 5745MHz @ 5MHz

Frequency (MHz)	MaxPeak (dBµV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
5041.466667	58.1	284.0	H	39.0	5.9	15.90	74.00	
5393.366667	66.4	288.0	H	35.0	6.7	7.60	74.00	
5553.166667	50.9	300.0	V	57.0	7.1	17.30	68.20	
5569.033333	61.8	395.0	V	62.0	7.2	6.40	68.20	
6097.166667	57.6	362.0	V	1.0	8.1	10.60	68.20	
7660.600000	53.7	400.0	H	30.0	10.1	20.30	74.00	
15332.700000	54.0	122.0	V	221.0	20.8	14.20	68.20	

Final Result 2 - 5745MHz @ 5MHz

Frequency (MHz)	Average (dBµV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
5041.466667	45.8	284.0	H	39.0	5.9	8.20	54.00	
5393.366667	51.5	288.0	H	35.0	6.7	2.50	54.00	
5553.166667	36.3	300.0	V	57.0	7.1	31.90	68.20	
5569.033333	46.6	395.0	V	62.0	7.2	21.60	68.20	
6097.166667	42.6	362.0	V	1.0	8.1	25.60	68.20	
7660.600000	49.4	400.0	H	30.0	10.1	4.60	54.00	
15332.700000	40.7	122.0	V	221.0	20.8	27.50	68.20	

Final Result 1 - 5785MHz @ 5MHz

Frequency (MHz)	MaxPeak (dBµV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
5081.700000	59.2	260.0	H	44.0	5.8	14.80	74.00	
5433.033333	64.1	300.0	H	296.0	6.9	9.90	74.00	
5520.866667	54.5	264.0	H	321.0	7.1	13.70	68.20	
6137.400000	57.2	307.0	V	277.0	8.3	11.00	68.20	
11571.166667	53.3	297.0	H	266.0	16.5	20.70	74.00	
17356.266667	68.1	141.0	V	123.0	23.1	0.10	68.20	

Final Result 2 - 5785MHz @ 5MHz

Frequency (MHz)	Average (dBµV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
5081.700000	46.8	260.0	H	44.0	5.8	7.20	54.00	
5433.033333	49.4	300.0	H	296.0	6.9	4.60	54.00	
5520.866667	40.3	264.0	H	321.0	7.1	27.90	68.20	
6137.400000	43.2	307.0	V	277.0	8.3	25.00	68.20	
11571.166667	39.5	297.0	H	266.0	16.5	14.50	54.00	
17356.266667	50.4	141.0	V	123.0	23.1	17.80	68.20	

Final Result 1 - 5825MHz @ 5MHz

Frequency (MHz)	MaxPeak (dBµV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
5121.366667	59.2	280.0	H	72.0	5.9	14.80	74.00	
5473.266667	66.5	276.0	H	312.0	7.0	1.70	68.20	
5561.666667	53.5	364.0	V	90.0	7.2	14.70	68.20	
6001.966667	57.4	284.0	V	48.0	7.8	10.80	68.20	
7767.700000	53.5	397.0	H	52.0	10.3	14.70	68.20	
17475.833333	63.0	323.0	V	136.0	22.8	5.20	68.20	

Final Result 2 - 5825MHz @ 5MHz

Frequency (MHz)	Average (dBµV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
5121.366667	45.5	280.0	H	72.0	5.9	8.50	54.00	
5473.266667	52.9	276.0	H	312.0	7.0	1.10	54.00	
5561.666667	40.0	364.0	V	90.0	7.2	14.00	54.00	
6001.966667	41.6	284.0	V	48.0	7.8	12.40	54.00	
7767.700000	49.6	397.0	H	52.0	10.3	4.40	54.00	
17475.833333	46.3	323.0	V	136.0	22.8	7.70	54.00	

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

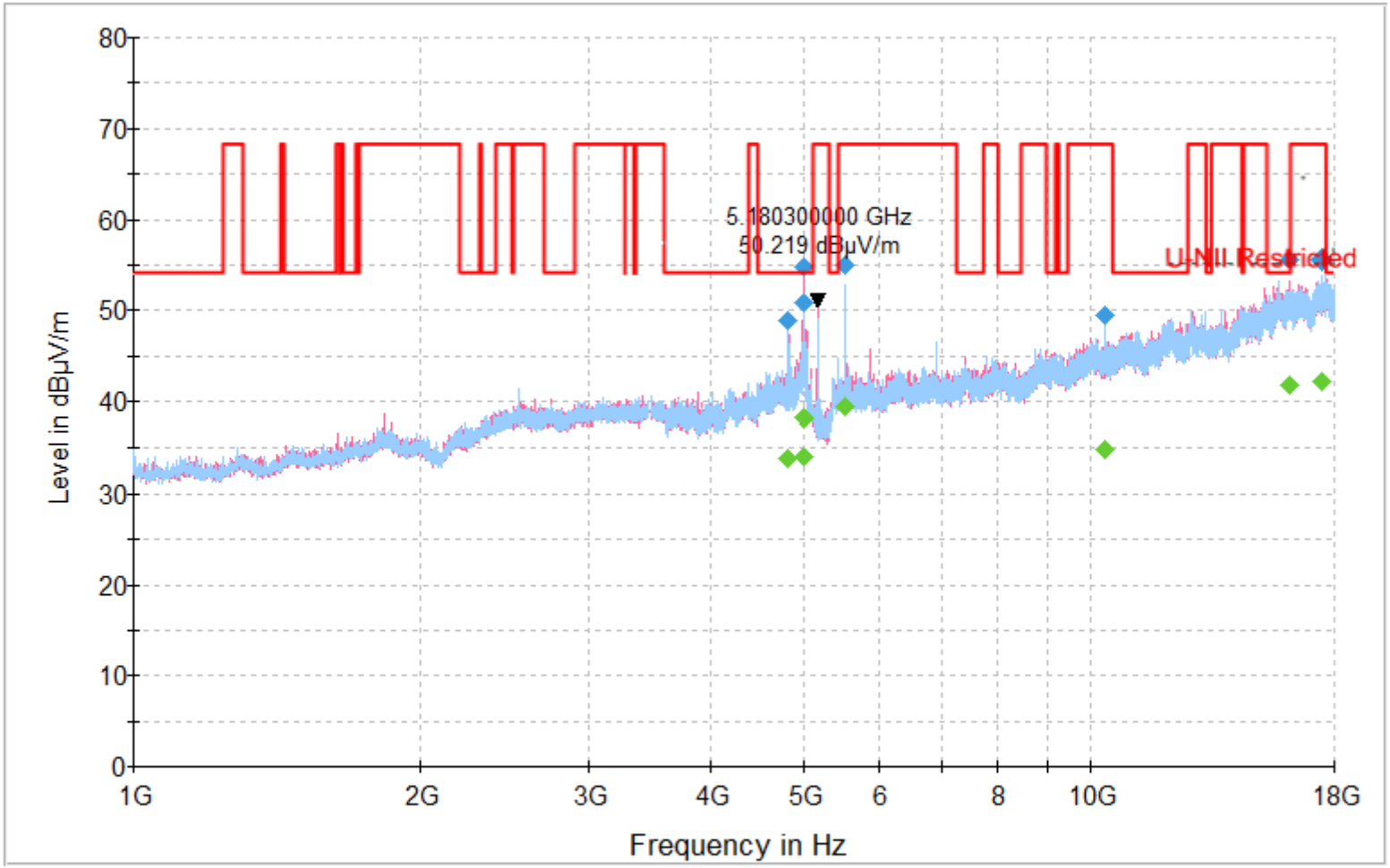
Common Information

Test Description:	FCC Class B Radiated Emissions
Operating Conditions:	Normal
Test Engineer:	Manan Modi

EUT Information

Company Name:	Skydio
EUT Name	Beacon
Model Number:	SBEC1V1
Serial Number:	N/A
Comment:	Omni-Directional Antenna, Vertical, Facing Up, 10MHz, 20dB, 5180

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



Final Result 1 - 5180MHz @ 10MHz

Frequency (MHz)	MaxPeak (dBµV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
4827.833333	48.9	315.0	V	6.0	5.6	25.10	74.00	
5002.933333	50.8	272.0	V	103.0	5.9	23.20	74.00	
5003.500000	54.8	277.0	H	40.0	5.9	19.20	74.00	
5531.633333	55.0	290.0	H	43.0	7.1	13.20	68.20	
10360.200000	49.4	110.0	V	233.0	14.5	18.80	68.20	
16143.033333	55.6	303.0	V	182.0	22.9	18.40	74.00	
17431.633333	55.8	348.0	V	1.0	22.8	12.40	68.20	

Final Result 2 - 5180MHz @ 10MHz

Frequency (MHz)	Average (dBµV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
4827.833333	33.9	315.0	V	6.0	5.6	20.10	54.00	
5002.933333	34.2	272.0	V	103.0	5.9	19.80	54.00	
5003.500000	38.3	277.0	H	40.0	5.9	15.70	54.00	
5531.633333	39.3	290.0	H	43.0	7.1	28.90	68.20	
10360.200000	34.8	110.0	V	233.0	14.5	33.40	68.20	
16143.033333	41.8	303.0	V	182.0	22.9	12.20	54.00	
17431.633333	42.2	348.0	V	1.0	22.8	26.00	68.20	

Final Result 1 - 5220MHz @ 10MHz

Frequency (MHz)	MaxPeak (dBµV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
4867.500000	53.6	277.0	V	72.0	5.7	20.40	74.00	
5044.866667	55.1	278.0	V	52.0	5.9	18.90	74.00	
5396.766667	52.6	317.0	H	30.0	6.7	21.40	74.00	
5573.566667	57.7	365.0	V	89.0	7.2	10.50	68.20	
10444.066667	52.5	340.0	V	348.0	14.5	15.70	68.20	
15660.800000	62.7	154.0	H	133.0	21.5	11.30	74.00	

Final Result 2 - 5220MHz @ 10MHz

Frequency (MHz)	Average (dBµV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
4867.500000	39.6	277.0	V	72.0	5.7	14.40	54.00	
5044.866667	40.1	278.0	V	52.0	5.9	13.90	54.00	
5396.766667	36.7	317.0	H	30.0	6.7	17.30	54.00	
5573.566667	42.1	365.0	V	89.0	7.2	26.10	68.20	
10444.066667	37.3	340.0	V	348.0	14.5	30.90	68.20	
15660.800000	45.7	154.0	H	133.0	21.5	8.30	54.00	

Final Result 1 - 5240MHz @ 10MHz

Frequency (MHz)	MaxPeak (dBµV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
4887.900000	53.6	316.0	V	30.0	5.7	20.40	74.00	
5063.566667	52.5	312.0	H	58.0	5.9	21.50	74.00	
5416.033333	58.0	305.0	H	331.0	6.8	16.00	74.00	
5591.133333	57.3	382.0	V	90.0	7.2	10.90	68.20	
10480.333333	56.0	381.0	V	129.0	14.5	12.20	68.20	
15719.733333	62.1	371.0	V	82.0	21.6	11.90	74.00	

Final Result 2 - 5240MHz @ 10MHz

Frequency (MHz)	Average (dBµV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
4887.900000	39.7	316.0	V	30.0	5.7	14.30	54.00	
5063.566667	36.7	312.0	H	58.0	5.9	17.30	54.00	
5416.033333	41.6	305.0	H	331.0	6.8	12.40	54.00	
5591.133333	41.9	382.0	V	90.0	7.2	26.30	68.20	
10480.333333	40.3	381.0	V	129.0	14.5	27.90	68.20	
15719.733333	44.9	371.0	V	82.0	21.6	9.10	54.00	

Final Result 1 - 5745MHz @ 10MHz

Frequency (MHz)	MaxPeak (dBµV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
5040.900000	57.2	369.0	V	241.0	5.9	16.80	74.00	
5392.800000	63.0	299.0	H	297.0	6.7	11.00	74.00	
5479.500000	53.5	298.0	H	325.0	7.0	14.70	68.20	
5545.800000	52.6	273.0	H	296.0	7.1	15.60	68.20	
5570.166667	61.8	268.0	H	294.0	7.2	6.40	68.20	
6095.466667	55.2	261.0	V	311.0	8.1	13.00	68.20	
16681.366667	54.9	241.0	V	202.0	22.3	13.30	68.20	

Final Result 2 - 5745MHz @ 10MHz

Frequency (MHz)	Average (dBµV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
5040.900000	45.2	369.0	V	241.0	5.9	8.80	54.00	
5392.800000	47.4	299.0	H	297.0	6.7	6.60	54.00	
5479.500000	37.2	298.0	H	325.0	7.0	31.00	68.20	
5545.800000	36.2	273.0	H	296.0	7.1	32.00	68.20	
5570.166667	44.4	268.0	H	294.0	7.2	23.80	68.20	
6095.466667	39.8	261.0	V	311.0	8.1	28.40	68.20	
16681.366667	41.6	241.0	V	202.0	22.3	26.60	68.20	

Final Result 1 - 5785MHz @ 10MHz

Frequency (MHz)	MaxPeak (dBµV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
5080.566667	57.9	271.0	H	34.0	5.8	16.10	74.00	
5433.033333	64.6	299.0	H	29.0	6.9	9.40	74.00	
5610.966667	52.0	279.0	H	323.0	7.2	16.20	68.20	
6135.700000	53.0	323.0	V	339.0	8.3	15.20	68.20	
7713.300000	55.4	247.0	H	35.0	10.1	18.60	74.00	
17358.533333	61.2	368.0	V	334.0	23.1	7.00	68.20	

Final Result 2 - 5785MHz @ 10MHz

Frequency (MHz)	Average (dBµV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
5080.566667	42.8	271.0	H	34.0	5.8	11.20	54.00	
5433.033333	48.9	299.0	H	29.0	6.9	5.10	54.00	
5610.966667	36.4	279.0	H	323.0	7.2	31.80	68.20	
6135.700000	37.5	323.0	V	339.0	8.3	30.70	68.20	
7713.300000	52.3	247.0	H	35.0	10.1	1.70	54.00	
17358.533333	44.5	368.0	V	334.0	23.1	23.70	68.20	

Final Result 1 - 5825MHz @ 10MHz

Frequency (MHz)	MaxPeak (dBµV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
5120.800000	56.3	296.0	H	58.0	5.9	17.70	74.00	
5472.133333	59.1	379.0	V	119.0	7.0	9.10	68.20	
5559.966667	55.7	272.0	H	314.0	7.2	12.50	68.20	
6003.100000	57.1	250.0	V	44.0	7.8	11.10	68.20	
6178.766667	56.6	365.0	V	6.0	8.5	11.60	68.20	
17470.166667	62.2	118.0	V	87.0	22.8	6.00	68.20	

Final Result 2 - 5825MHz @ 10MHz

Frequency (MHz)	Average (dBµV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
5120.800000	42.6	296.0	H	58.0	5.9	11.40	54.00	
5472.133333	43.1	379.0	V	119.0	7.0	25.10	68.20	
5559.966667	39.4	272.0	H	314.0	7.2	28.80	68.20	
6003.100000	41.1	250.0	V	44.0	7.8	27.10	68.20	
6178.766667	40.0	365.0	V	6.0	8.5	28.20	68.20	
17470.166667	44.4	118.0	V	87.0	22.8	23.80	68.20	

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

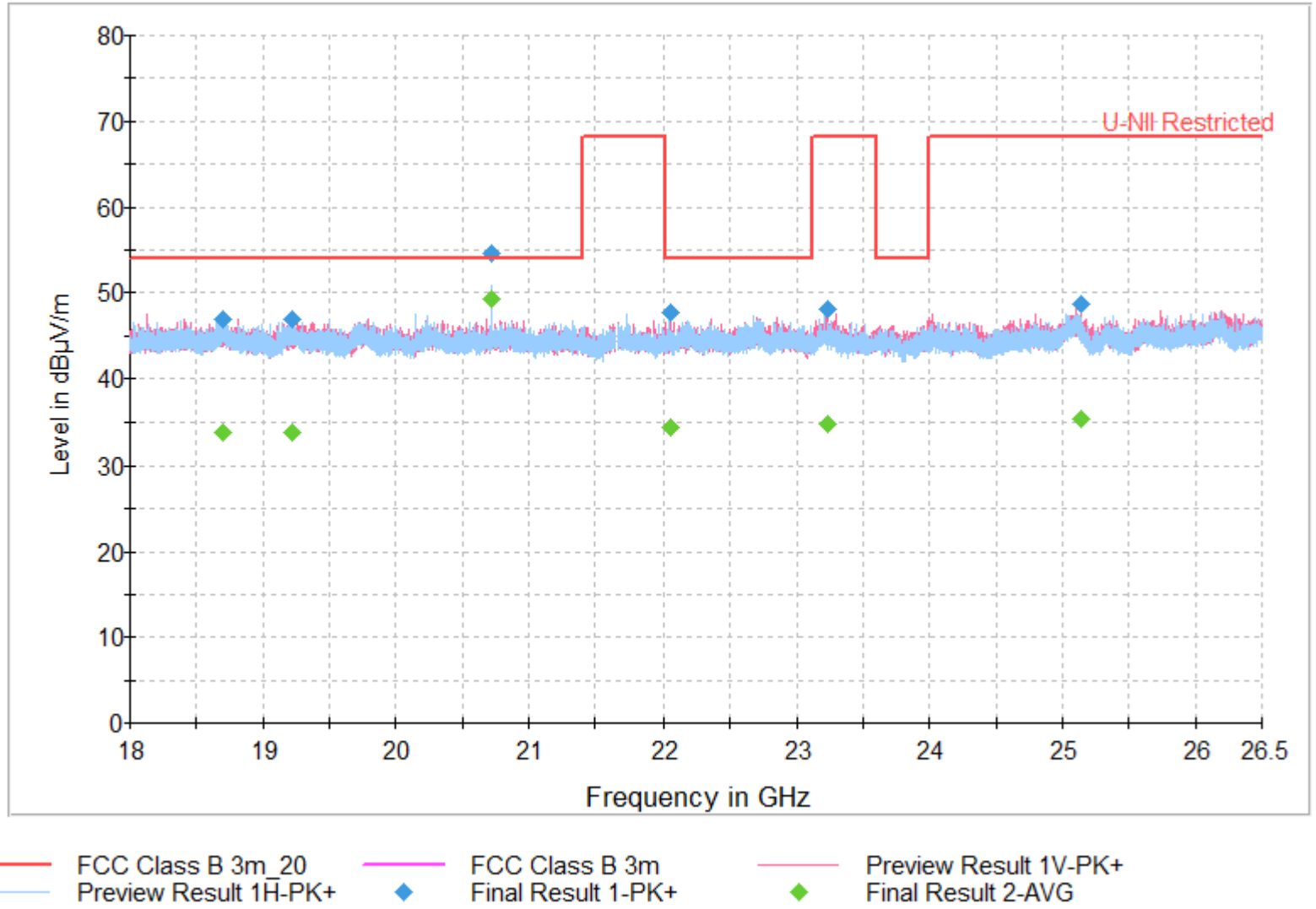
Common Information

Test Description:	FCC Class B Radiated Emissions
Operating Conditions:	Normal
Test Engineer:	Manan Modi

EUT Information

Company Name:	Skydio
EUT Name	Beacon
Model Number:	SBEC1V1
Serial Number:	N/A
Comment:	Omni-Directional Antenna, Vertical, Facing Up, 5MHz, 20dB, 5180

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



Final Result 1 - 5180MHz @ 5MHz

Frequency (MHz)	MaxPeak (dBµV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
18701.675000	46.9	274.0	V	210.0	10.4	27.10	74.00	
19224.425000	47.0	122.0	V	179.0	10.6	27.00	74.00	
20722.125000	54.5	153.0	H	293.0	11.1	19.50	74.00	
22058.325000	47.7	129.0	V	248.0	11.3	26.30	74.00	
23237.700000	48.2	144.0	V	267.0	11.8	20.00	68.20	
25137.450000	48.7	300.0	V	136.0	11.8	19.50	68.20	

Final Result 2 - 5180MHz @ 5MHz

Frequency (MHz)	Average (dBµV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
18701.675000	33.9	274.0	V	210.0	10.4	20.10	54.00	
19224.425000	33.8	122.0	V	179.0	10.6	20.20	54.00	
20722.125000	49.3	153.0	H	293.0	11.1	4.70	54.00	
22058.325000	34.5	129.0	V	248.0	11.3	19.50	54.00	
23237.700000	35.0	144.0	V	267.0	11.8	33.20	68.20	
25137.450000	35.6	300.0	V	136.0	11.8	32.60	68.20	

Final Result 1 - 5220MHz @ 5MHz

Frequency (MHz)	MaxPeak (dBµV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
19259.700000	47.2	254.0	H	20.0	10.6	26.80	74.00	
19763.325000	47.7	182.0	V	30.0	10.8	26.30	74.00	
20881.925000	50.0	211.0	H	169.0	11.1	24.00	74.00	
23203.700000	48.4	182.0	H	355.0	11.7	19.80	68.20	
25113.225000	49.1	147.0	V	333.0	11.8	19.10	68.20	
26183.375000	49.2	300.0	V	193.0	12.4	19.00	68.20	

Final Result 2 - 5220MHz @ 5MHz

Frequency (MHz)	Average (dBµV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
19259.700000	33.6	254.0	H	20.0	10.6	20.40	54.00	
19763.325000	34.0	182.0	V	30.0	10.8	20.00	54.00	
20881.925000	36.3	211.0	H	169.0	11.1	17.70	54.00	
23203.700000	34.8	182.0	H	355.0	11.7	33.40	68.20	
25113.225000	35.4	147.0	V	333.0	11.8	32.80	68.20	
26183.375000	35.8	300.0	V	193.0	12.4	32.40	68.20	

Final Result 1 - 5240MHz @ 5MHz

Frequency (MHz)	MaxPeak (dBµV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
18673.200000	47.5	300.0	H	150.0	10.4	26.50	74.00	
19670.675000	47.1	216.0	V	206.0	10.8	26.90	74.00	
20961.825000	55.6	153.0	H	206.0	11.0	18.40	74.00	
23188.400000	48.6	300.0	H	297.0	11.7	19.60	68.20	
25108.550000	48.8	100.0	V	184.0	11.8	19.40	68.20	
26104.325000	48.7	138.0	V	142.0	11.9	19.50	68.20	

Final Result 2 - 5240MHz @ 5MHz

Frequency (MHz)	Average (dBµV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
18673.200000	33.8	300.0	H	150.0	10.4	20.20	54.00	
19670.675000	33.8	216.0	V	206.0	10.8	20.20	54.00	
20961.825000	51.4	153.0	H	206.0	11.0	2.60	54.00	
23188.400000	34.7	300.0	H	297.0	11.7	33.50	68.20	
25108.550000	35.3	100.0	V	184.0	11.8	32.90	68.20	
26104.325000	35.1	138.0	V	142.0	11.9	33.10	68.20	

Final Result 1 - 5745MHz @ 5MHz

Frequency (MHz)	MaxPeak (dBµV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
19208.700000	47.9	290.0	V	216.0	10.5	26.10	74.00	
19717.425000	47.7	260.0	V	121.0	10.8	26.30	74.00	
21790.575000	47.7	152.0	V	307.0	11.1	20.50	68.20	
22981.850000	48.1	136.0	V	16.0	11.6	25.90	74.00	
25087.725000	48.8	157.0	H	359.0	11.8	19.40	68.20	
25618.975000	48.4	184.0	V	185.0	11.9	19.80	68.20	

Final Result 2 - 5745MHz @ 5MHz

Frequency (MHz)	Average (dBµV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
19208.700000	33.7	290.0	V	216.0	10.5	20.30	54.00	
19717.425000	34.2	260.0	V	121.0	10.8	19.80	54.00	
21790.575000	34.2	152.0	V	307.0	11.1	34.00	68.20	
22981.850000	34.8	136.0	V	16.0	11.6	19.20	54.00	
25087.725000	35.2	157.0	H	359.0	11.8	33.00	68.20	
25618.975000	34.6	184.0	V	185.0	11.9	33.60	68.20	

Final Result 1 - 5785MHz @ 5MHz

Frequency (MHz)	MaxPeak (dBµV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
18697.850000	47.3	100.0	H	81.0	10.4	26.70	74.00	
19167.050000	47.7	231.0	H	277.0	10.5	26.30	74.00	
20295.000000	48.0	110.0	H	359.0	10.9	26.00	74.00	
23142.500000	51.0	129.0	H	281.0	11.6	17.20	68.20	
25087.725000	48.8	165.0	V	155.0	11.8	19.40	68.20	
26118.350000	49.5	161.0	V	193.0	12.0	18.70	68.20	

Final Result 2 - 5785MHz @ 5MHz

Frequency (MHz)	Average (dBµV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
18697.850000	33.7	100.0	H	81.0	10.4	20.30	54.00	
19167.050000	33.7	231.0	H	277.0	10.5	20.30	54.00	
20295.000000	34.1	110.0	H	359.0	10.9	19.90	54.00	
23142.500000	41.7	129.0	H	281.0	11.6	26.50	68.20	
25087.725000	35.4	165.0	V	155.0	11.8	32.80	68.20	
26118.350000	35.3	161.0	V	193.0	12.0	32.90	68.20	

Final Result 1 - 5825MHz @ 5MHz

Frequency (MHz)	MaxPeak (dBµV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
18302.600000	47.4	288.0	V	193.0	10.5	26.60	74.00	
19789.675000	47.8	114.0	V	304.0	10.8	26.20	74.00	
22003.500000	47.6	136.0	H	278.0	11.3	20.60	68.20	
23250.875000	47.9	223.0	V	308.0	11.8	20.30	68.20	
25079.225000	48.9	204.0	H	292.0	11.8	19.30	68.20	
26169.350000	49.3	100.0	H	349.0	12.3	18.90	68.20	

Final Result 2 - 5825MHz @ 5MHz

Frequency (MHz)	Average (dBµV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
18302.600000	33.9	288.0	V	193.0	10.5	20.10	54.00	
19789.675000	34.3	114.0	V	304.0	10.8	19.70	54.00	
22003.500000	34.5	136.0	H	278.0	11.3	33.70	68.20	
23250.875000	34.6	223.0	V	308.0	11.8	33.60	68.20	
25079.225000	35.3	204.0	H	292.0	11.8	32.90	68.20	
26169.350000	35.7	100.0	H	349.0	12.3	32.50	68.20	

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

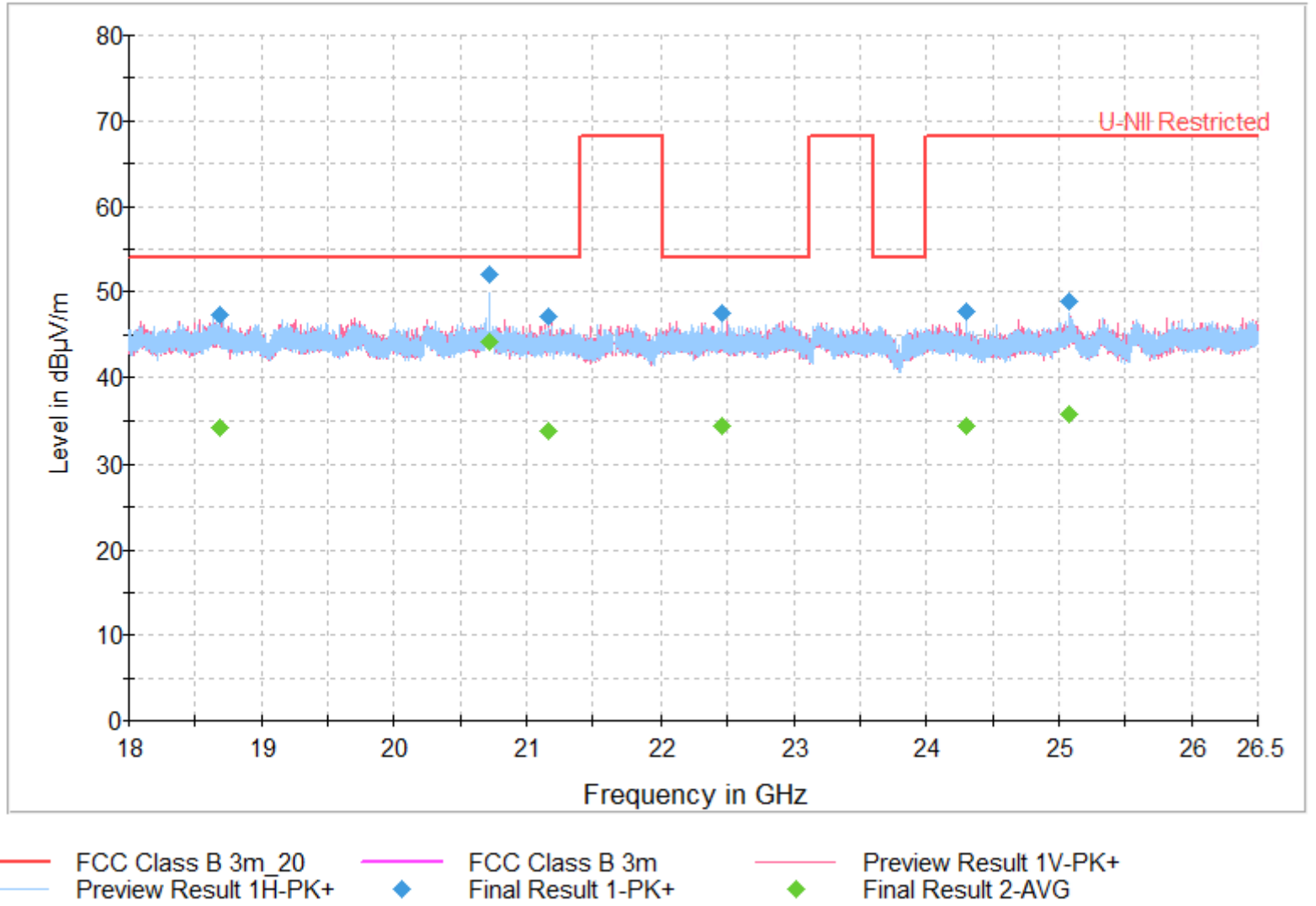
Common Information

Test Description:	FCC Class B Radiated Emissions
Operating Conditions:	Normal
Test Engineer:	Chinmay Shendurnikar

EUT Information

Company Name:	Skydio
EUT Name	Beacon
Model Number:	SBEC1V1
Serial Number:	N/A
Comment:	Omni-Directional Antenna, Vertical, Facing Up, 10MHz, 20dB, 5180

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



Final Result 1 - 5180MHz @ 10MHz

Frequency (MHz)	MaxPeak (dBµV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
18684.675000	47.3	296.0	V	238.0	10.4	26.70	74.00	
20719.575000	52.0	150.0	H	113.0	11.1	22.00	74.00	
21169.225000	47.0	286.0	V	19.0	11.1	27.00	74.00	
22457.825000	47.5	100.0	H	347.0	11.6	26.50	74.00	
24308.275000	47.7	285.0	H	309.0	11.5	20.50	68.20	
25082.200000	48.9	258.0	H	6.0	11.8	19.30	68.20	

Final Result 2 - 5180MHz @ 10MHz

Frequency (MHz)	Average (dBµV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
18684.675000	34.2	296.0	V	238.0	10.4	19.80	54.00	
20719.575000	44.1	150.0	H	113.0	11.1	9.90	54.00	
21169.225000	33.9	286.0	V	19.0	11.1	20.10	54.00	
22457.825000	34.6	100.0	H	347.0	11.6	19.40	54.00	
24308.275000	34.6	285.0	H	309.0	11.5	33.60	68.20	
25082.200000	35.8	258.0	H	6.0	11.8	32.40	68.20	

Final Result 1 - 5220MHz @ 10MHz

Frequency (MHz)	MaxPeak (dBµV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
18742.050000	46.8	190.0	V	121.0	10.4	27.20	74.00	
19726.350000	47.1	165.0	H	39.0	10.8	26.90	74.00	
20879.800000	52.8	145.0	H	292.0	11.1	21.20	74.00	
22162.875000	47.8	293.0	H	48.0	11.2	26.20	74.00	
23208.375000	47.9	100.0	H	235.0	11.7	20.30	68.20	
25321.475000	47.8	100.0	V	184.0	12.0	20.40	68.20	

Final Result 2 - 5220MHz @ 10MHz

Frequency (MHz)	Average (dBµV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
18742.050000	33.7	190.0	V	121.0	10.4	20.30	54.00	
19726.350000	33.9	165.0	H	39.0	10.8	20.10	54.00	
20879.800000	46.0	145.0	H	292.0	11.1	8.00	54.00	
22162.875000	34.4	293.0	H	48.0	11.2	19.60	54.00	
23208.375000	34.6	100.0	H	235.0	11.7	33.60	68.20	
25321.475000	34.8	100.0	V	184.0	12.0	33.40	68.20	

Final Result 1 - 5240MHz @ 10MHz

Frequency (MHz)	MaxPeak (dBµV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
18141.950000	47.1	197.0	V	132.0	10.6	26.90	74.00	
20959.700000	55.2	150.0	H	206.0	11.0	18.80	74.00	
22072.775000	47.7	256.0	V	178.0	11.3	26.30	74.00	
22928.300000	48.8	138.0	V	108.0	11.6	25.20	74.00	
25089.000000	48.2	157.0	V	75.0	11.8	20.00	68.20	
26165.100000	49.4	192.0	V	290.0	12.3	18.80	68.20	

Final Result 2 - 5240MHz @ 10MHz

Frequency (MHz)	Average (dBµV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
18141.950000	33.7	197.0	V	132.0	10.6	20.30	54.00	
20959.700000	50.8	150.0	H	206.0	11.0	3.20	54.00	
22072.775000	34.4	256.0	V	178.0	11.3	19.60	54.00	
22928.300000	34.7	138.0	V	108.0	11.6	19.30	54.00	
25089.000000	35.4	157.0	V	75.0	11.8	32.80	68.20	
26165.100000	35.6	192.0	V	290.0	12.3	32.60	68.20	

Final Result 1 - 5745MHz @ 10MHz

Frequency (MHz)	MaxPeak (dBµV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
18979.625000	47.7	201.0	H	283.0	10.5	26.30	74.00	
19810.925000	47.8	130.0	V	255.0	10.8	26.20	74.00	
21132.250000	47.1	288.0	V	113.0	11.1	26.90	74.00	
22979.725000	51.0	141.0	H	122.0	11.6	23.00	74.00	
25105.575000	49.5	246.0	V	315.0	11.8	18.70	68.20	
26476.625000	48.8	184.0	H	253.0	12.6	19.40	68.20	

Final Result 2 - 5745MHz @ 10MHz

Frequency (MHz)	Average (dBµV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
18979.625000	33.9	201.0	H	283.0	10.5	20.10	54.00	
19810.925000	34.6	130.0	V	255.0	10.8	19.40	54.00	
21132.250000	34.0	288.0	V	113.0	11.1	20.00	54.00	
22979.725000	41.1	141.0	H	122.0	11.6	12.90	54.00	
25105.575000	35.6	246.0	V	315.0	11.8	32.60	68.20	
26476.625000	35.5	184.0	H	253.0	12.6	32.70	68.20	

Final Result 1 - 5785MHz @ 10MHz

Frequency (MHz)	MaxPeak (dBµV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
19125.825000	47.4	193.0	H	141.0	10.5	26.60	74.00	
20752.300000	47.0	237.0	V	104.0	11.0	27.00	74.00	
22421.275000	48.1	196.0	V	244.0	11.6	25.90	74.00	
23028.600000	47.7	237.0	V	178.0	11.6	26.30	74.00	
23587.475000	47.3	289.0	V	57.0	11.4	20.90	68.20	
25121.725000	48.7	254.0	V	72.0	11.8	19.50	68.20	

Final Result 2 - 5785MHz @ 10MHz

Frequency (MHz)	Average (dBµV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
19125.825000	33.6	193.0	H	141.0	10.5	20.40	54.00	
20752.300000	34.0	237.0	V	104.0	11.0	20.00	54.00	
22421.275000	34.5	196.0	V	244.0	11.6	19.50	54.00	
23028.600000	34.7	237.0	V	178.0	11.6	19.30	54.00	
23587.475000	34.3	289.0	V	57.0	11.4	33.90	68.20	
25121.725000	35.6	254.0	V	72.0	11.8	32.60	68.20	

Final Result 1 - 5825MHz @ 10MHz

Frequency (MHz)	MaxPeak (dBµV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
18697.850000	47.2	130.0	V	15.0	10.4	26.80	74.00	
20124.575000	46.8	152.0	V	299.0	10.9	27.20	74.00	
21411.475000	47.8	100.0	V	61.0	11.1	20.40	68.20	
23300.175000	50.7	126.0	H	121.0	11.8	17.50	68.20	
25086.450000	49.2	130.0	V	278.0	11.8	19.00	68.20	
26078.400000	48.8	231.0	H	154.0	11.8	19.40	68.20	

Final Result 2 - 5825MHz @ 10MHz

Frequency (MHz)	Average (dBµV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
18697.850000	33.8	130.0	V	15.0	10.4	20.20	54.00	
20124.575000	33.7	152.0	V	299.0	10.9	20.30	54.00	
21411.475000	34.0	100.0	V	61.0	11.1	34.20	68.20	
23300.175000	41.1	126.0	H	121.0	11.8	27.10	68.20	
25086.450000	35.4	130.0	V	278.0	11.8	32.80	68.20	
26078.400000	35.0	231.0	H	154.0	11.8	33.20	68.20	

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

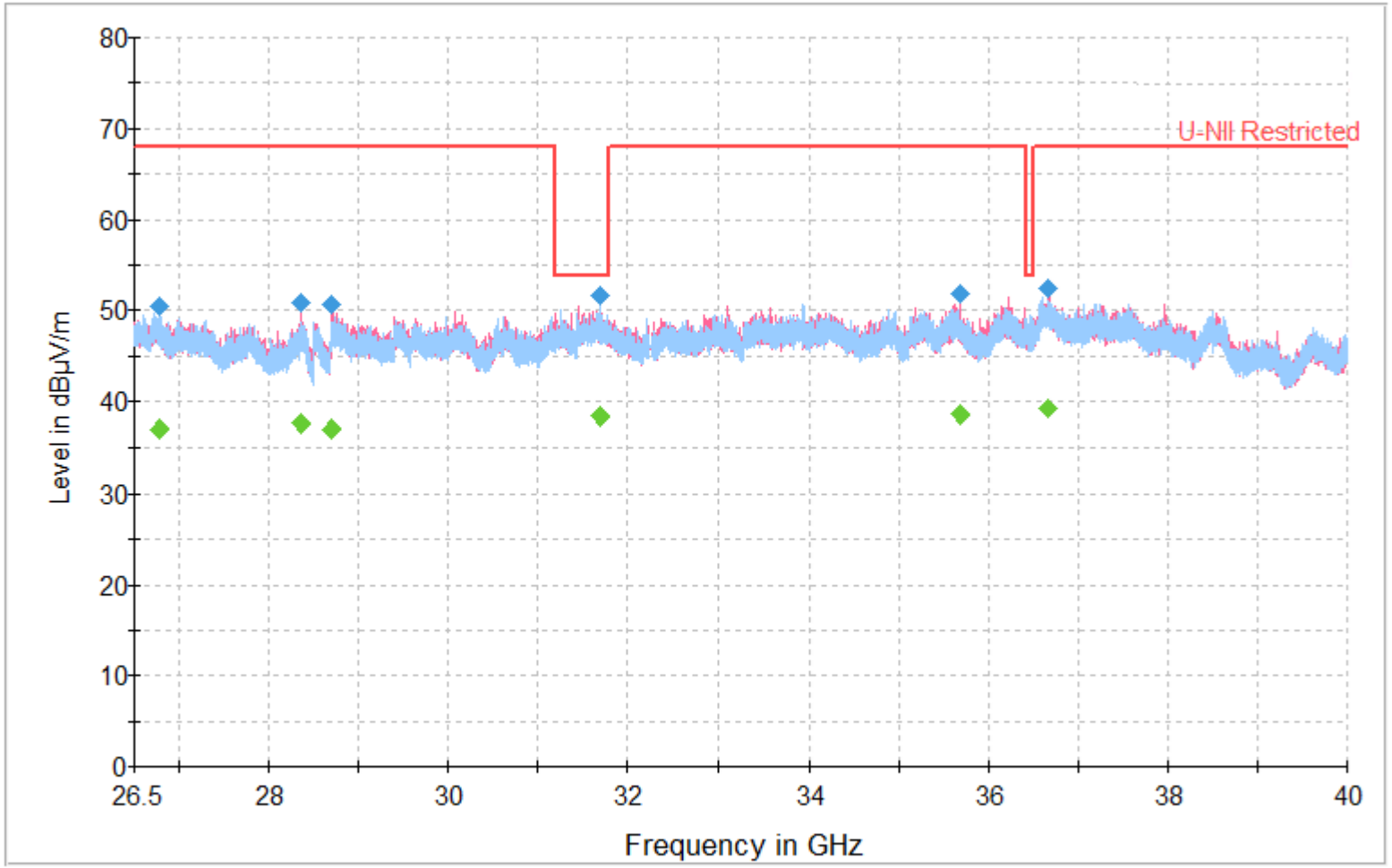
Common Information

Test Description:	FCC Class B Radiated Emissions
Operating Conditions:	Normal
Test Engineer:	Radhika Gandhi

EUT Information

Company Name:	Skydio
EUT Name	Beacon
Model Number:	SBEC1V1
Serial Number:	N/A
Comment:	Omni-Directional Antenna, Vertical, Facing Up, 5MHz, 20dB, 5180

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



Final Result 1 - 5180MHz @ 5MHz

Frequency (MHz)	MaxPeak (dBµV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
26774.950000	50.5	100.0	V	16.0	-0.4	17.70	68.20	
28358.500000	50.9	128.0	V	331.0	0.9	17.30	68.20	
28706.350000	50.7	157.0	V	53.0	0.8	17.50	68.20	
31688.050000	51.6	300.0	H	16.0	0.0	22.40	74.00	
35691.700000	51.9	100.0	V	162.0	-2.1	16.30	68.20	
36662.800000	52.4	210.0	V	11.0	-0.7	15.80	68.20	

Final Result 2 - 5180MHz @ 5MHz

Frequency (MHz)	Average (dBµV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
26774.950000	37.1	100.0	V	16.0	-0.4	31.10	68.20	
28358.500000	37.6	128.0	V	331.0	0.9	30.60	68.20	
28706.350000	37.1	157.0	V	53.0	0.8	31.10	68.20	
31688.050000	38.3	300.0	H	16.0	0.0	15.70	54.00	
35691.700000	38.6	100.0	V	162.0	-2.1	29.60	68.20	
36662.800000	39.3	210.0	V	11.0	-0.7	28.90	68.20	

Final Result 1 - 5220MHz @ 5MHz

Frequency (MHz)	MaxPeak (dBµV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
28762.600000	50.7	122.0	H	82.0	0.9	17.50	68.20	
31686.700000	51.8	248.0	H	221.0	0.0	22.20	74.00	
34250.800000	51.9	207.0	H	193.0	-0.9	16.30	68.20	
36668.200000	52.3	100.0	V	49.0	-0.7	15.90	68.20	
36720.850000	52.8	121.0	V	289.0	-1.0	15.40	68.20	
37604.200000	52.3	300.0	H	325.0	-1.0	15.90	68.20	

Final Result 2 - 5220MHz @ 5MHz

Frequency (MHz)	Average (dBµV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
28762.600000	37.3	122.0	H	82.0	0.9	30.90	68.20	
31686.700000	38.3	248.0	H	221.0	0.0	15.70	54.00	
34250.800000	38.4	207.0	H	193.0	-0.9	29.80	68.20	
36668.200000	39.3	100.0	V	49.0	-0.7	28.90	68.20	
36720.850000	39.2	121.0	V	289.0	-1.0	29.00	68.20	
37604.200000	38.8	300.0	H	325.0	-1.0	29.40	68.20	

Final Result 1 - 5240MHz @ 5MHz

Frequency (MHz)	MaxPeak (dBµV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
28367.950000	50.1	212.0	V	359.0	1.0	18.10	68.20	
31324.450000	50.4	229.0	V	39.0	0.8	23.60	74.00	
34292.200000	51.6	278.0	V	162.0	-1.1	16.60	68.20	
35633.200000	52.0	114.0	V	24.0	-1.9	16.20	68.20	
36624.550000	52.4	169.0	V	359.0	-0.4	15.80	68.20	
37141.150000	52.3	100.0	V	340.0	-0.9	15.90	68.20	

Final Result 2 - 5240MHz @ 5MHz

Frequency (MHz)	Average (dBµV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
28367.950000	37.2	212.0	V	359.0	1.0	31.00	68.20	
31324.450000	37.2	229.0	V	39.0	0.8	16.80	54.00	
34292.200000	38.1	278.0	V	162.0	-1.1	30.10	68.20	
35633.200000	38.9	114.0	V	24.0	-1.9	29.30	68.20	
36624.550000	39.2	169.0	V	359.0	-0.4	29.00	68.20	
37141.150000	38.5	100.0	V	340.0	-0.9	29.70	68.20	

Final Result 1 - 5745MHz @ 5MHz

Frequency (MHz)	MaxPeak (dBµV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
29318.800000	50.9	100.0	V	16.0	0.9	17.30	68.20	
29402.950000	50.6	157.0	H	1.0	1.1	17.60	68.20	
31175.050000	50.5	231.0	H	106.0	0.7	17.70	68.20	
35618.350000	52.7	209.0	V	6.0	-1.9	15.50	68.20	
36684.850000	52.9	100.0	H	114.0	-0.8	15.30	68.20	
36692.050000	52.7	293.0	V	312.0	-0.9	15.50	68.20	

Final Result 2 - 5745MHz @ 5MHz

Frequency (MHz)	Average (dBµV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
29318.800000	37.0	100.0	V	16.0	0.9	31.20	68.20	
29402.950000	37.0	157.0	H	1.0	1.1	31.20	68.20	
31175.050000	37.3	231.0	H	106.0	0.7	30.90	68.20	
35618.350000	38.9	209.0	V	6.0	-1.9	29.30	68.20	
36684.850000	39.5	100.0	H	114.0	-0.8	28.70	68.20	
36692.050000	39.3	293.0	V	312.0	-0.9	28.90	68.20	

Final Result 1 - 5785MHz @ 5MHz

Frequency (MHz)	MaxPeak (dBµV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
27278.500000	49.6	100.0	H	76.0	-0.5	18.60	68.20	
28718.950000	50.7	193.0	V	15.0	0.8	17.50	68.20	
30642.700000	50.6	165.0	V	15.0	1.1	17.60	68.20	
33445.300000	50.9	125.0	H	241.0	0.0	17.30	68.20	
35601.700000	51.9	293.0	V	16.0	-1.8	16.30	68.20	
36673.150000	52.8	110.0	H	44.0	-0.7	15.40	68.20	

Final Result 2 - 5785MHz @ 5MHz

Frequency (MHz)	Average (dBµV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
27278.500000	36.2	100.0	H	76.0	-0.5	32.00	68.20	
28718.950000	37.1	193.0	V	15.0	0.8	31.10	68.20	
30642.700000	37.3	165.0	V	15.0	1.1	30.90	68.20	
33445.300000	38.0	125.0	H	241.0	0.0	30.20	68.20	
35601.700000	39.0	293.0	V	16.0	-1.8	29.20	68.20	
36673.150000	39.4	110.0	H	44.0	-0.7	28.80	68.20	

Final Result 1 - 5825MHz @ 5MHz

Frequency (MHz)	MaxPeak (dBµV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
26851.900000	49.9	169.0	V	39.0	-0.5	18.30	68.20	
28744.600000	50.4	171.0	H	30.0	0.9	17.80	68.20	
30074.350000	50.5	118.0	V	21.0	1.2	17.70	68.20	
31598.950000	51.4	100.0	H	186.0	0.1	22.60	74.00	
33771.100000	51.4	113.0	V	95.0	-0.2	16.80	68.20	
36630.400000	52.6	152.0	V	1.0	-0.5	15.60	68.20	

Final Result 2 - 5825MHz @ 5MHz

Frequency (MHz)	Average (dBµV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
26851.900000	36.7	169.0	V	39.0	-0.5	31.50	68.20	
28744.600000	37.2	171.0	H	30.0	0.9	31.00	68.20	
30074.350000	37.2	118.0	V	21.0	1.2	31.00	68.20	
31598.950000	38.4	100.0	H	186.0	0.1	15.60	54.00	
33771.100000	38.3	113.0	V	95.0	-0.2	29.90	68.20	
36630.400000	39.4	152.0	V	1.0	-0.5	28.80	68.20	

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

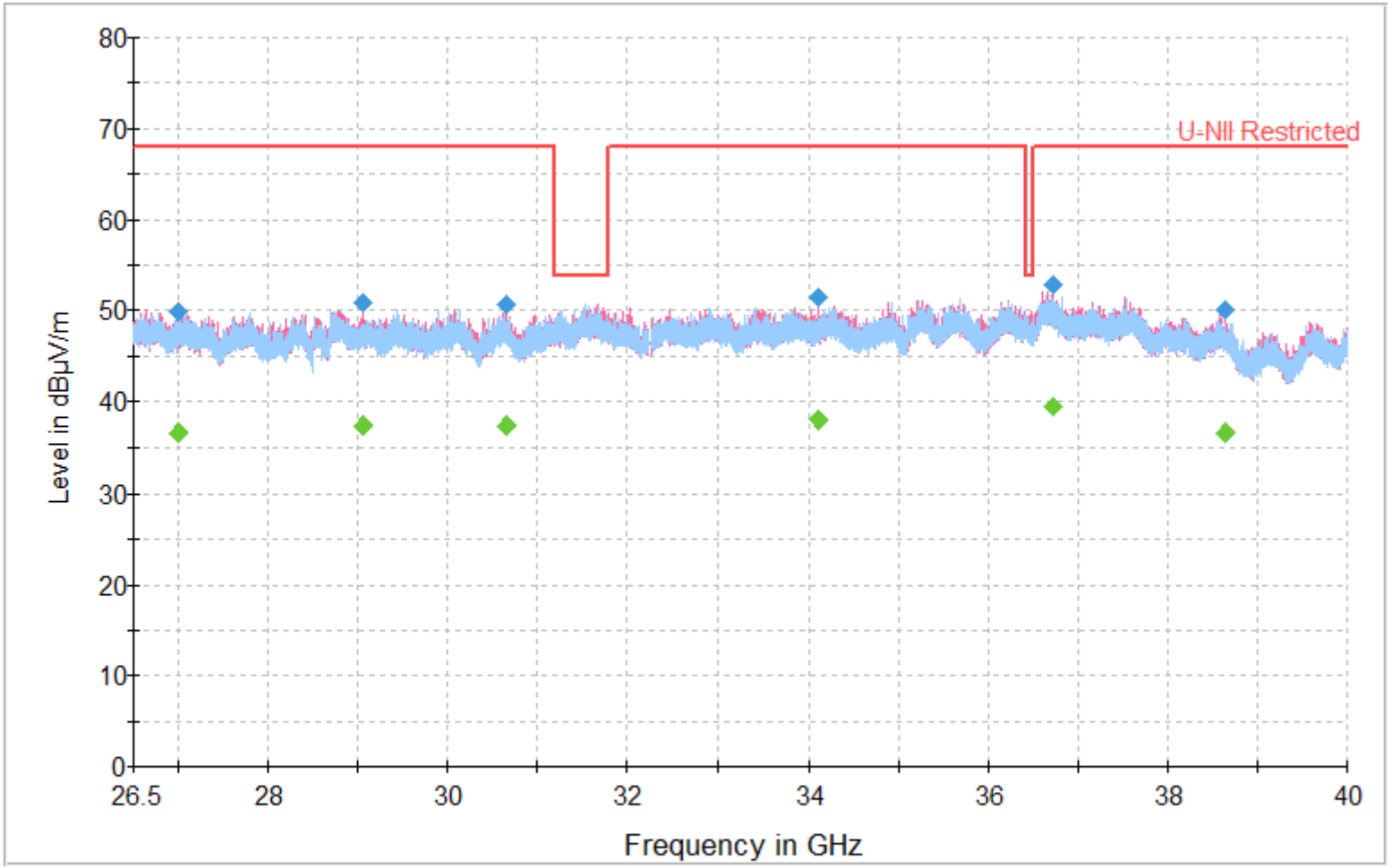
Common Information

Test Description:	FCC Class B Radiated Emissions
Operating Conditions:	Normal
Test Engineer:	Chinmay Shendurnikar

EUT Information

Company Name:	Skydio
EUT Name	Beacon
Model Number:	SBEC1V1
Serial Number:	NA
Comment:	Omni-Directional Antenna, Vertical, Facing Up, 10MHz, 20dB, 5180

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



Final Result 1 - 5180MHz @ 10MHz

Frequency (MHz)	MaxPeak (dBµV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
26994.550000	49.9	152.0	V	348.0	-0.6	18.30	68.20	
29048.350000	50.9	271.0	V	221.0	1.0	17.30	68.20	
30646.750000	50.7	225.0	V	110.0	1.1	17.50	68.20	
34116.700000	51.4	172.0	V	231.0	-0.6	16.80	68.20	
36718.600000	52.7	145.0	V	291.0	-1.0	15.50	68.20	
38648.650000	50.0	237.0	V	290.0	-0.7	18.20	68.20	

Final Result 2 - 5180MHz @ 10MHz

Frequency (MHz)	Average (dBµV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
26994.550000	36.7	152.0	V	348.0	-0.6	31.50	68.20	
29048.350000	37.3	271.0	V	221.0	1.0	30.90	68.20	
30646.750000	37.5	225.0	V	110.0	1.1	30.70	68.20	
34116.700000	38.1	172.0	V	231.0	-0.6	30.10	68.20	
36718.600000	39.4	145.0	V	291.0	-1.0	28.80	68.20	
38648.650000	36.7	237.0	V	290.0	-0.7	31.50	68.20	

Final Result 1 - 5220MHz @ 10MHz

Frequency (MHz)	MaxPeak (dBµV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
26999.500000	50.0	158.0	V	137.0	-0.6	18.20	68.20	
28813.450000	50.7	300.0	H	104.0	0.9	17.50	68.20	
30166.600000	50.7	162.0	V	137.0	1.3	17.50	68.20	
32030.050000	51.2	251.0	V	53.0	-0.4	17.00	68.20	
34303.900000	51.5	117.0	H	147.0	-1.1	16.70	68.20	
36688.000000	52.9	262.0	V	352.0	-0.8	15.30	68.20	

Final Result 2 - 5220MHz @ 10MHz

Frequency (MHz)	Average (dBµV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
26999.500000	36.7	158.0	V	137.0	-0.6	31.50	68.20	
28813.450000	37.4	300.0	H	104.0	0.9	30.80	68.20	
30166.600000	37.4	162.0	V	137.0	1.3	30.80	68.20	
32030.050000	37.5	251.0	V	53.0	-0.4	30.70	68.20	
34303.900000	38.5	117.0	H	147.0	-1.1	29.70	68.20	
36688.000000	39.3	262.0	V	352.0	-0.8	28.90	68.20	

Final Result 1 - 5240MHz @ 10MHz

Frequency (MHz)	MaxPeak (dBµV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
29076.250000	51.3	145.0	V	213.0	1.0	16.90	68.20	
31540.000000	51.6	204.0	V	108.0	0.4	22.40	74.00	
33053.800000	51.1	184.0	V	69.0	-0.2	17.10	68.20	
35307.400000	51.7	300.0	V	322.0	-2.9	16.50	68.20	
36791.050000	51.8	291.0	V	21.0	-1.4	16.40	68.20	
39693.550000	50.2	253.0	V	311.0	1.8	18.00	68.20	

Final Result 2 - 5240MHz @ 10MHz

Frequency (MHz)	Average (dBµV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
29076.250000	37.5	145.0	V	213.0	1.0	30.70	68.20	
31540.000000	38.1	204.0	V	108.0	0.4	15.90	54.00	
33053.800000	38.1	184.0	V	69.0	-0.2	30.10	68.20	
35307.400000	38.5	300.0	V	322.0	-2.9	29.70	68.20	
36791.050000	38.3	291.0	V	21.0	-1.4	29.90	68.20	
39693.550000	36.8	253.0	V	311.0	1.8	31.40	68.20	

Final Result 1 - 5745MHz @ 10MHz

Frequency (MHz)	MaxPeak (dBµV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
29629.300000	49.9	114.0	H	67.0	0.8	18.30	68.20	
31440.550000	50.1	203.0	H	161.0	0.7	23.90	74.00	
31635.400000	51.0	287.0	V	77.0	0.1	23.00	74.00	
33530.350000	51.2	286.0	V	221.0	0.0	17.00	68.20	
36660.550000	52.8	300.0	H	63.0	-0.7	15.40	68.20	
36684.850000	53.1	281.0	V	307.0	-0.8	15.10	68.20	

Final Result 2 - 5745MHz @ 10MHz

Frequency (MHz)	Average (dBµV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
29629.300000	36.6	114.0	H	67.0	0.8	31.60	68.20	
31440.550000	36.7	203.0	H	161.0	0.7	17.30	54.00	
31635.400000	38.0	287.0	V	77.0	0.1	16.00	54.00	
33530.350000	38.1	286.0	V	221.0	0.0	30.10	68.20	
36660.550000	39.3	300.0	H	63.0	-0.7	28.90	68.20	
36684.850000	39.3	281.0	V	307.0	-0.8	28.90	68.20	

Final Result 1 - 5785MHz @ 10MHz

Frequency (MHz)	MaxPeak (dBµV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
27299.650000	49.4	186.0	V	213.0	-0.4	18.80	68.20	
29615.800000	49.6	221.0	V	14.0	0.7	18.60	68.20	
30076.600000	51.0	168.0	V	352.0	1.2	17.20	68.20	
31716.850000	51.6	300.0	V	71.0	0.0	22.40	74.00	
33902.050000	51.9	300.0	V	67.0	-0.1	16.30	68.20	
36669.100000	52.6	300.0	V	298.0	-0.7	15.60	68.20	

Final Result 2 - 5785MHz @ 10MHz

Frequency (MHz)	Average (dBµV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
27299.650000	36.4	186.0	V	213.0	-0.4	31.80	68.20	
29615.800000	36.5	221.0	V	14.0	0.7	31.70	68.20	
30076.600000	37.2	168.0	V	352.0	1.2	31.00	68.20	
31716.850000	38.3	300.0	V	71.0	0.0	15.70	54.00	
33902.050000	38.7	300.0	V	67.0	-0.1	29.50	68.20	
36669.100000	39.4	300.0	V	298.0	-0.7	28.80	68.20	

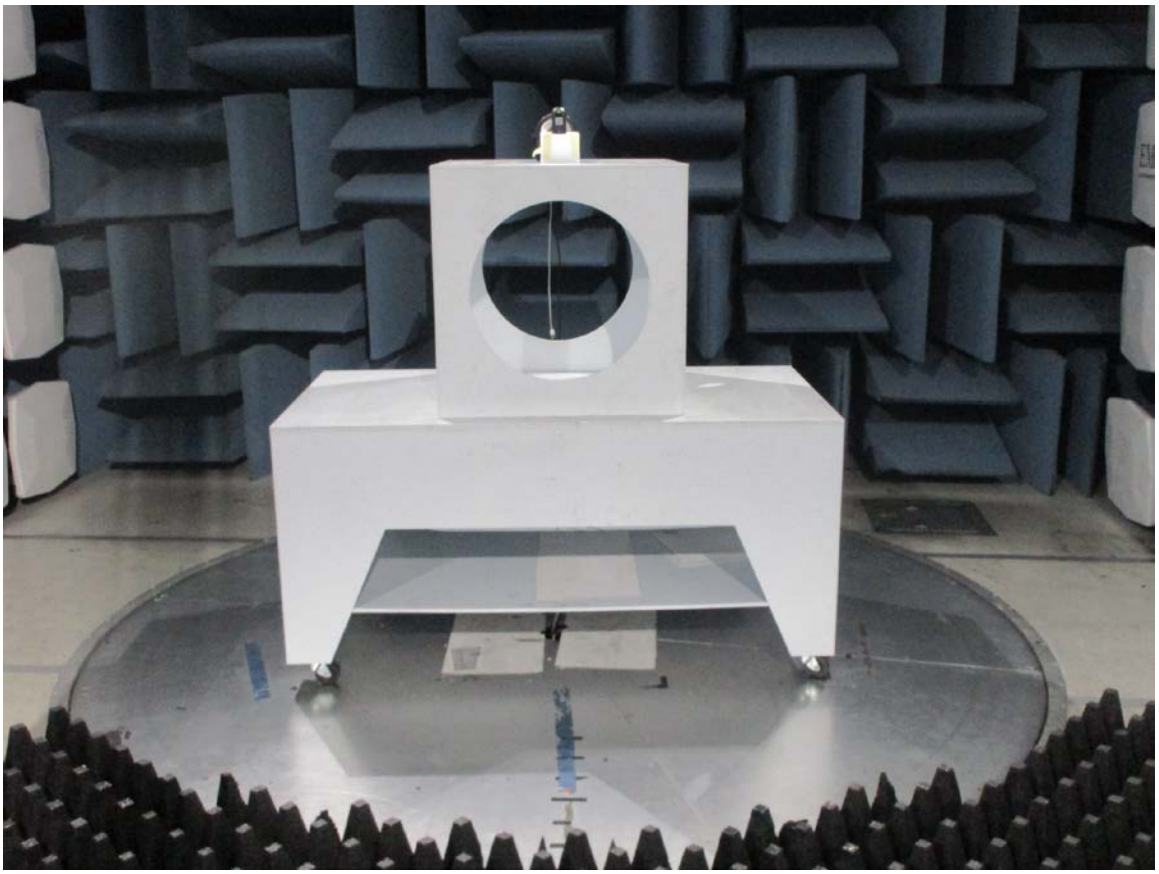
Final Result 1 - 5825MHz @ 10MHz

Frequency (MHz)	MaxPeak (dBµV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
28795.450000	51.2	174.0	V	170.0	0.9	17.00	68.20	
30916.750000	49.9	250.0	V	67.0	1.0	18.30	68.20	
34969.900000	51.2	265.0	V	151.0	-2.6	17.00	68.20	
35257.900000	52.1	189.0	V	214.0	-2.7	16.10	68.20	
36803.200000	52.4	114.0	V	263.0	-1.5	15.80	68.20	
39752.500000	49.7	222.0	V	1.0	1.9	18.50	68.20	

Final Result 2 - 5825MHz @ 10MHz

Frequency (MHz)	Average (dBµV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
28795.450000	37.6	174.0	V	170.0	0.9	30.60	68.20	
30916.750000	36.4	250.0	V	67.0	1.0	31.80	68.20	
34969.900000	37.9	265.0	V	151.0	-2.6	30.30	68.20	
35257.900000	39.0	189.0	V	214.0	-2.7	29.20	68.20	
36803.200000	39.1	114.0	V	263.0	-1.5	29.10	68.20	
39752.500000	36.3	222.0	V	1.0	1.9	31.90	68.20	

EMT ELECTRO MAGNETIC TEST, INC.
1547 Plymouth Street, Mountain View, CA 94043 Tel: (650) 965-4000 Fax: (650) 965-3000

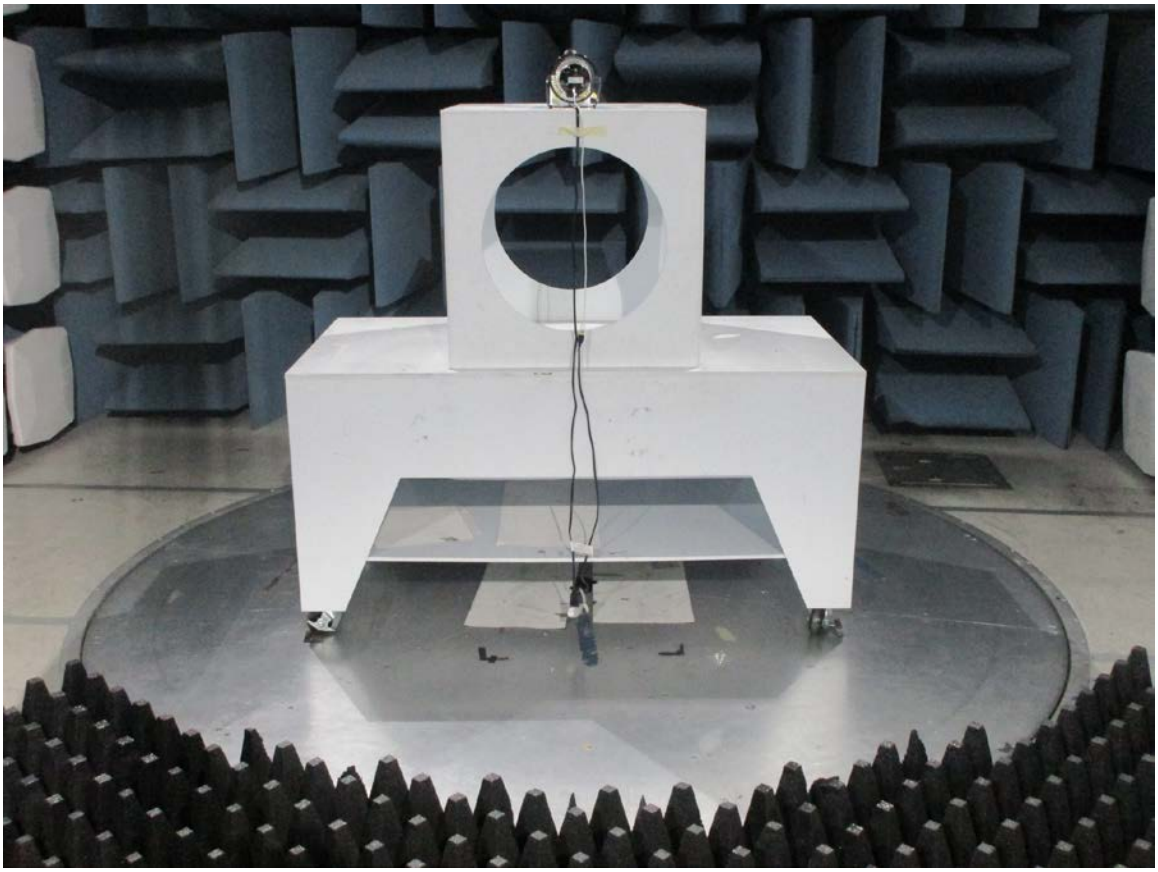


FRONT VIEW

Skydio, Inc.
Beacon
Model: SBEC1V1
CISPR 22/FCC Class B – Radiated Emissions (>1GHz)

PHOTOGRAPH SHOWING THE EUT CONFIGURATION FOR MAXIMUM EMISSIONS

EMT ELECTRO MAGNETIC TEST, INC.
1547 Plymouth Street, Mountain View, CA 94043 Tel: (650) 965-4000 Fax: (650) 965-3000



REAR VIEW

Skydio, Inc.
Beacon
Model: SBEC1V1
CISPR 22/FCC Class B – Radiated Emissions (>1GHz)

PHOTOGRAPH SHOWING THE EUT CONFIGURATION FOR MAXIMUM EMISSIONS

EMT ELECTRO MAGNETIC TEST, INC.
1547 Plymouth Street, Mountain View, CA 94043 Tel: (650) 965-4000 Fax: (650) 965-3000

6/26 dB Bandwidth and Occupied Bandwidth Test

Company:	Skydio, Inc.	**Test Date:**	1/16/2020
EUT Name:	Beacon	**Test Engineer:**	Andreas Davidsson
Model:	SBEC1V1	**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 (5MHz High Power)	1	36	5180	4.94	4.067	≥ 0.5	PASS
	2	36	5180	4.83	4.059	≥ 0.5	PASS
	1	44	5220	4.95	4.062	≥ 0.5	PASS
	2	44	5220	4.89	4.062	≥ 0.5	PASS
	1	48	5240	4.82	4.061	≥ 0.5	PASS
	2	48	5240	4.88	4.064	≥ 0.5	PASS
U-NII-3 (5MHz High Power)	1	149	5745	4.75	4.061	≥ 0.5	PASS
	2	149	5745	4.94	4.942	≥ 0.5	PASS
	1	157	5785	4.79	4.059	≥ 0.5	PASS
	2	157	5785	4.89	4.065	≥ 0.5	PASS
	1	165	5825	4.88	4.056	≥ 0.5	PASS
	2	165	5825	4.87	4.062	≥ 0.5	PASS
U-NII-1 (10MHz High Power)	1	36	5180	9.65	8.132	≥ 0.5	PASS
	2	36	5180	9.67	8.125	≥ 0.5	PASS
	1	44	5220	9.78	8.138	≥ 0.5	PASS
	2	44	5220	9.84	8.124	≥ 0.5	PASS
	1	48	5240	9.88	8.119	≥ 0.5	PASS
	2	48	5240	9.78	8.132	≥ 0.5	PASS
U-NII-3 (10MHz High Power)	1	149	5745	9.44	8.112	≥ 0.5	PASS
	2	149	5745	9.72	8.120	≥ 0.5	PASS
	1	157	5785	9.73	8.112	≥ 0.5	PASS
	2	157	5785	9.82	8.122	≥ 0.5	PASS
	1	165	5825	9.40	8.108	≥ 0.5	PASS
	2	165	5825	9.88	8.122	≥ 0.5	PASS

EMT ELECTRO MAGNETIC TEST, INC.
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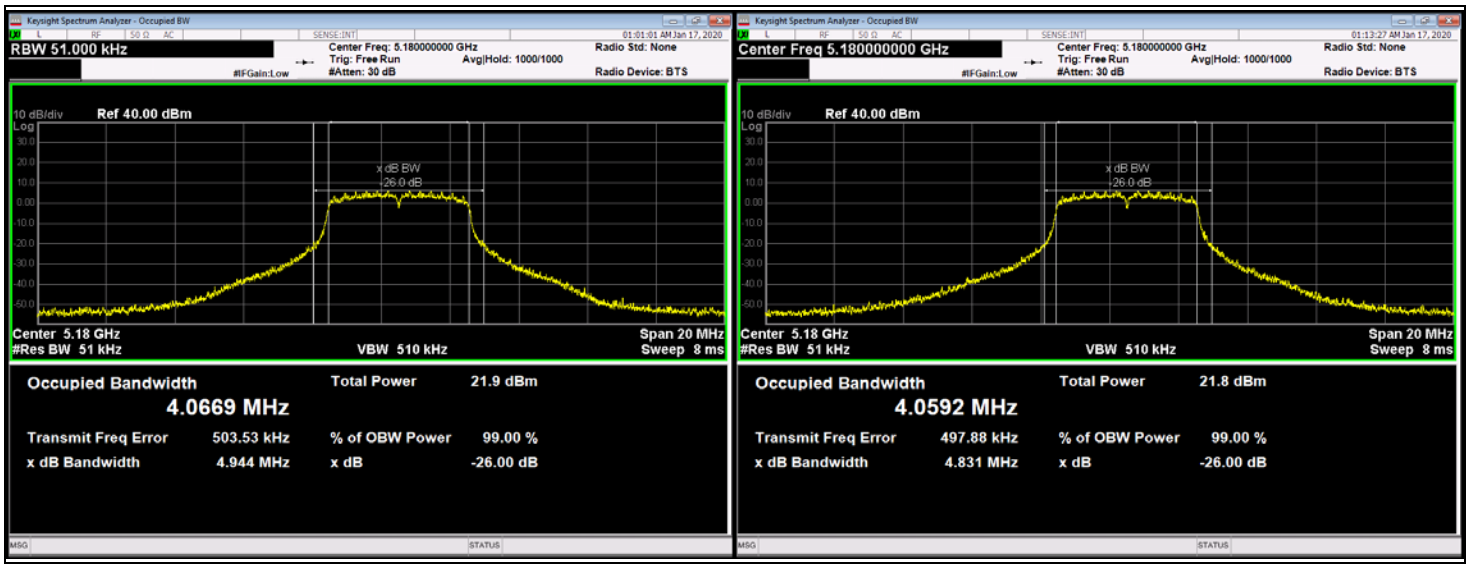
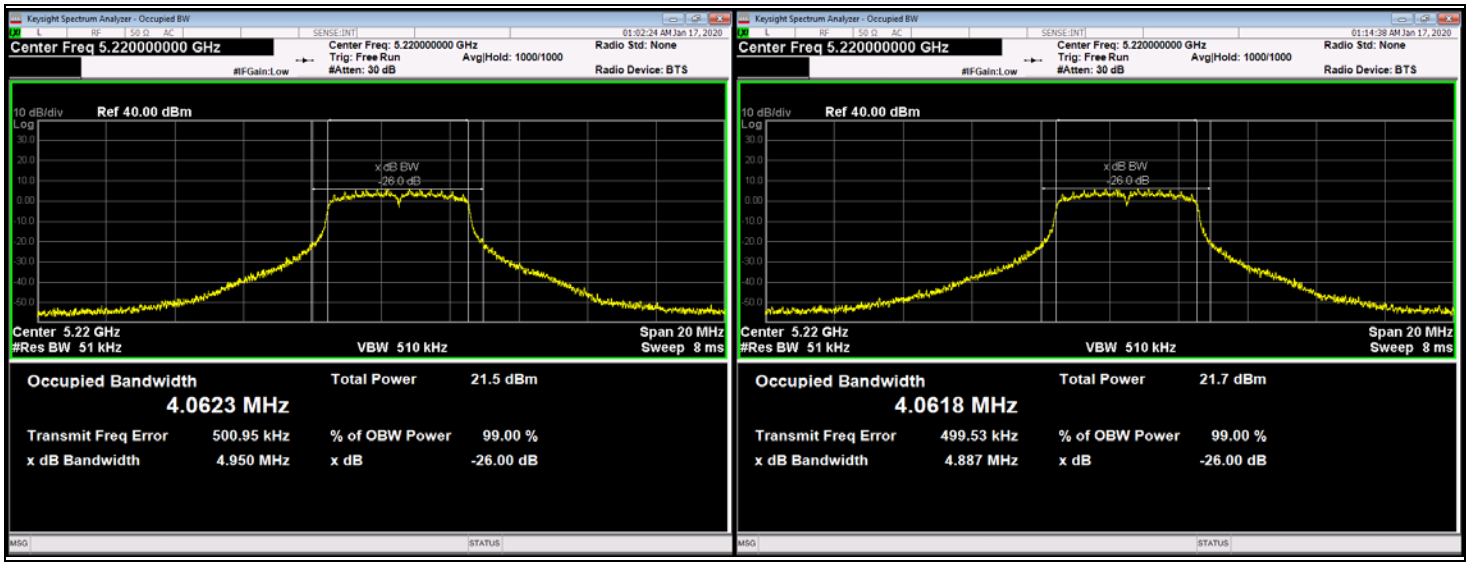
Antenna 1 + 2 (5MHz High Power)
Channel 36 (5180 MHz)

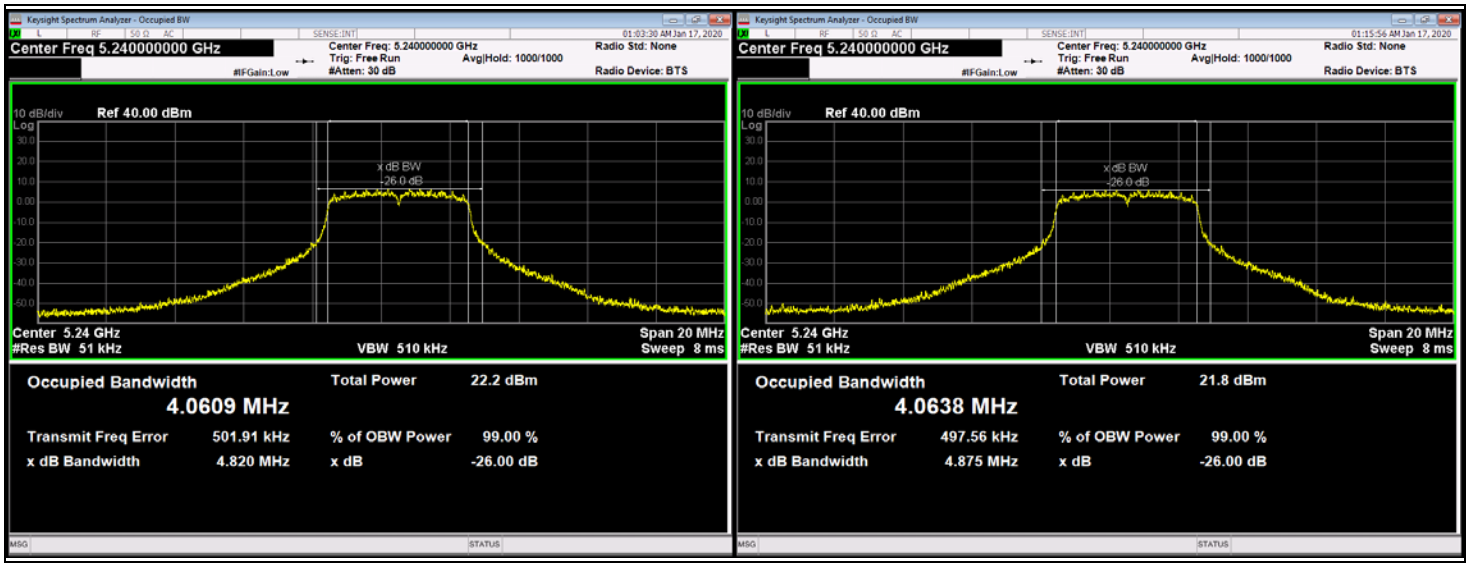


Antenna 1 + 2 (5MHz High Power)
Channel 44 (5220 MHz)

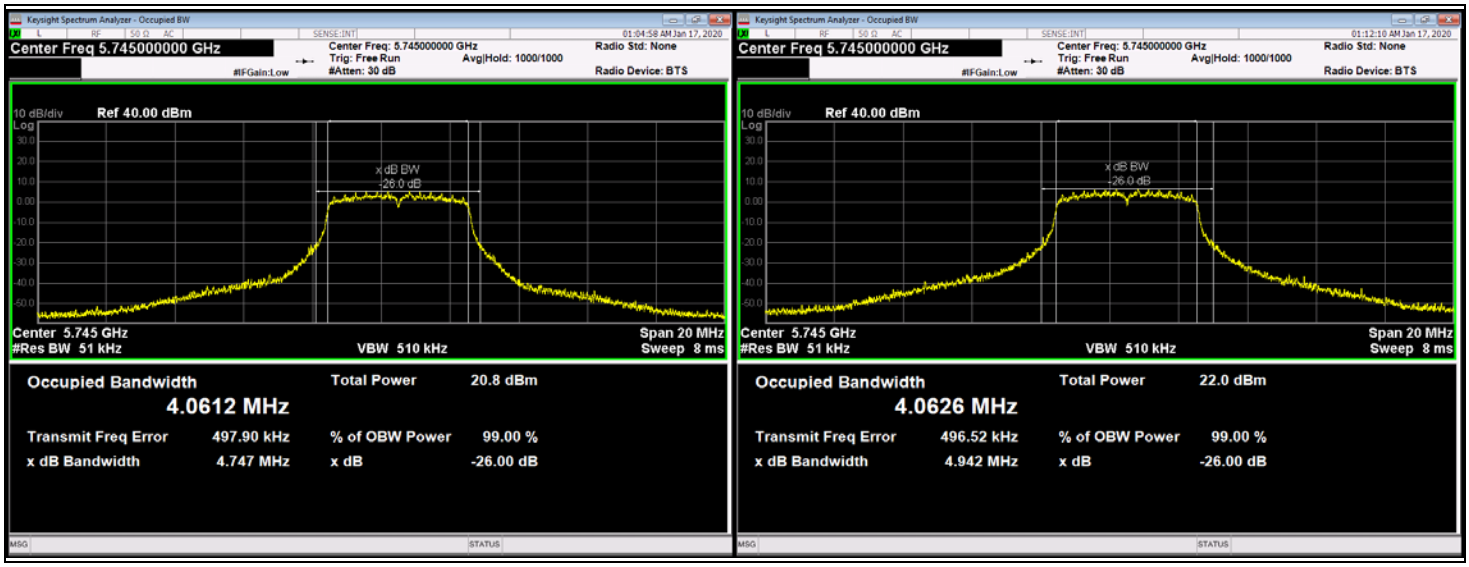


ELECTRO MAGNETIC TEST, INC.
1547 Plymouth Street, Mountain View, CA 94043 Tel: (650) 965-4000 Fax: (650) 965-3000

Antenna 1 + 2 (5MHz High Power)
Channel 48 (5240 MHz)

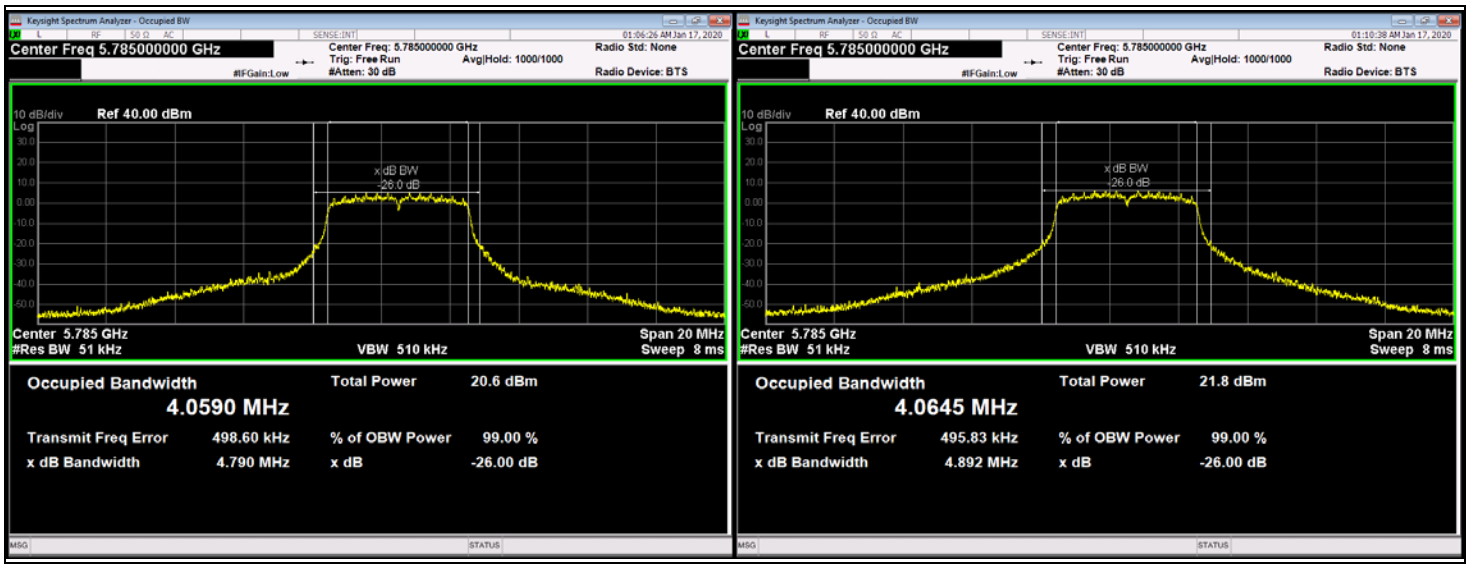


Antenna 1 + 2 (5MHz High Power)
Channel 149 (5745 MHz)

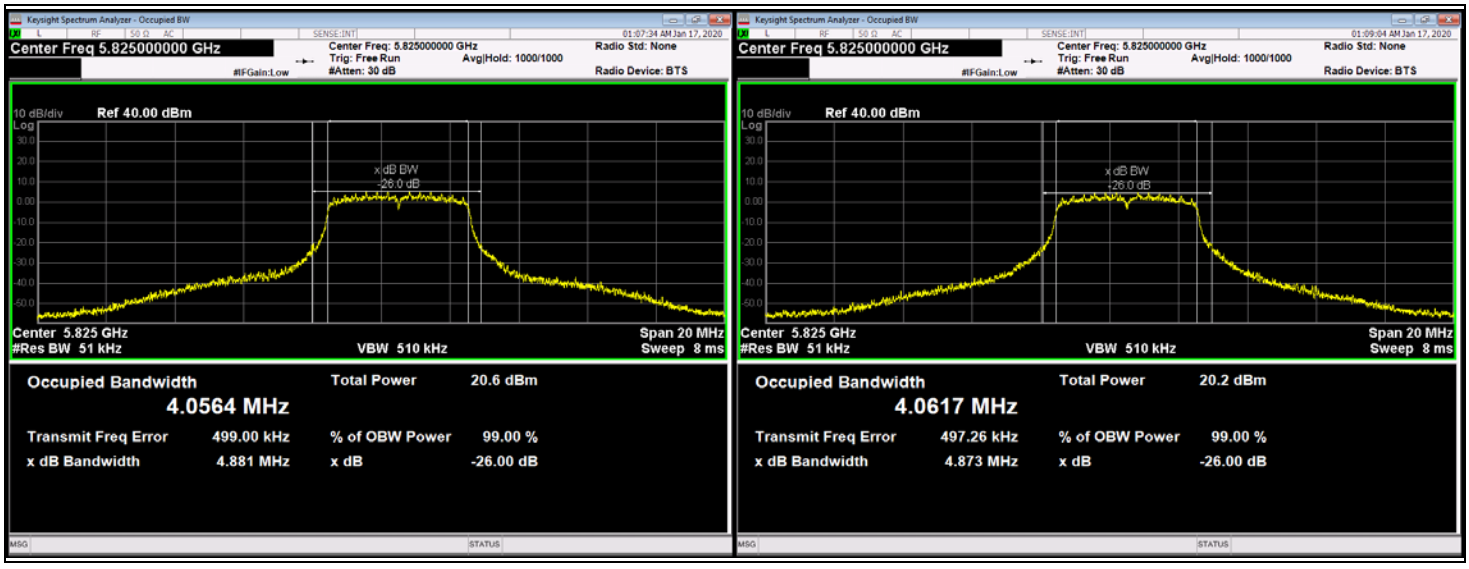


EMT ELECTRO MAGNETIC TEST, INC.
1547 Plymouth Street, Mountain View, CA 94043 Tel: (650) 965-4000 Fax: (650) 965-3000

Antenna 1 + 2 (5MHz High Power)
Channel 157 (5785 MHz)



Antenna 1 + 2 (5MHz High Power)
Channel 165 (5825 MHz)



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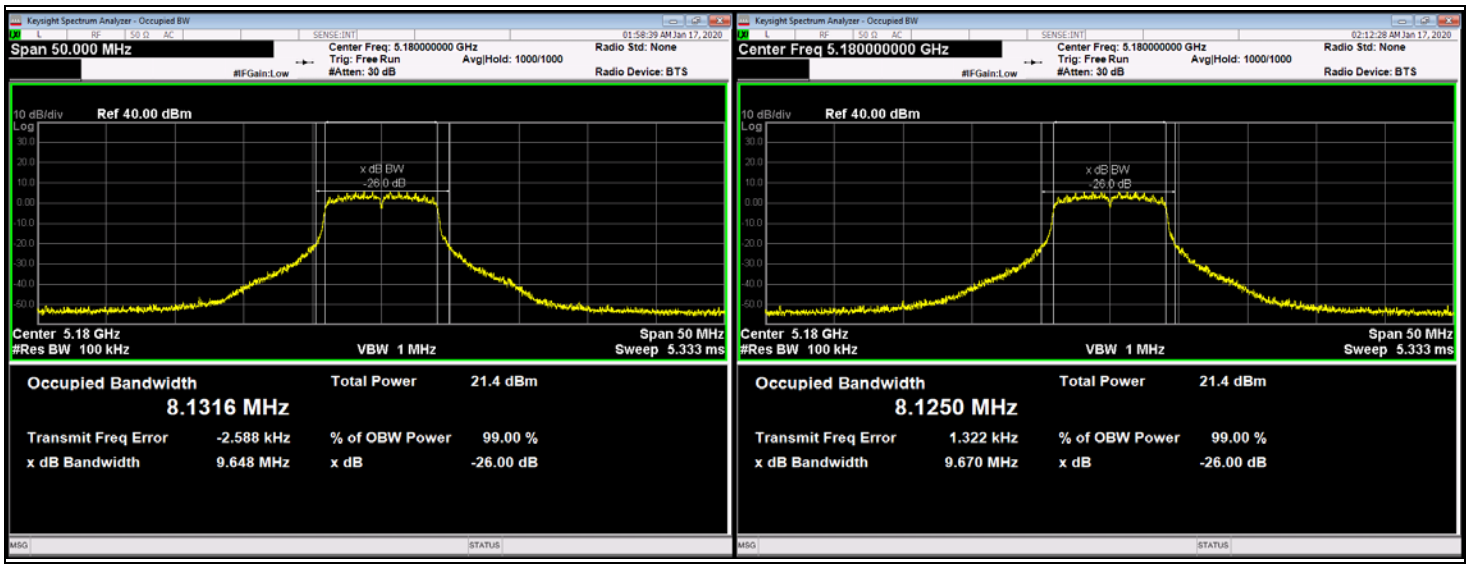
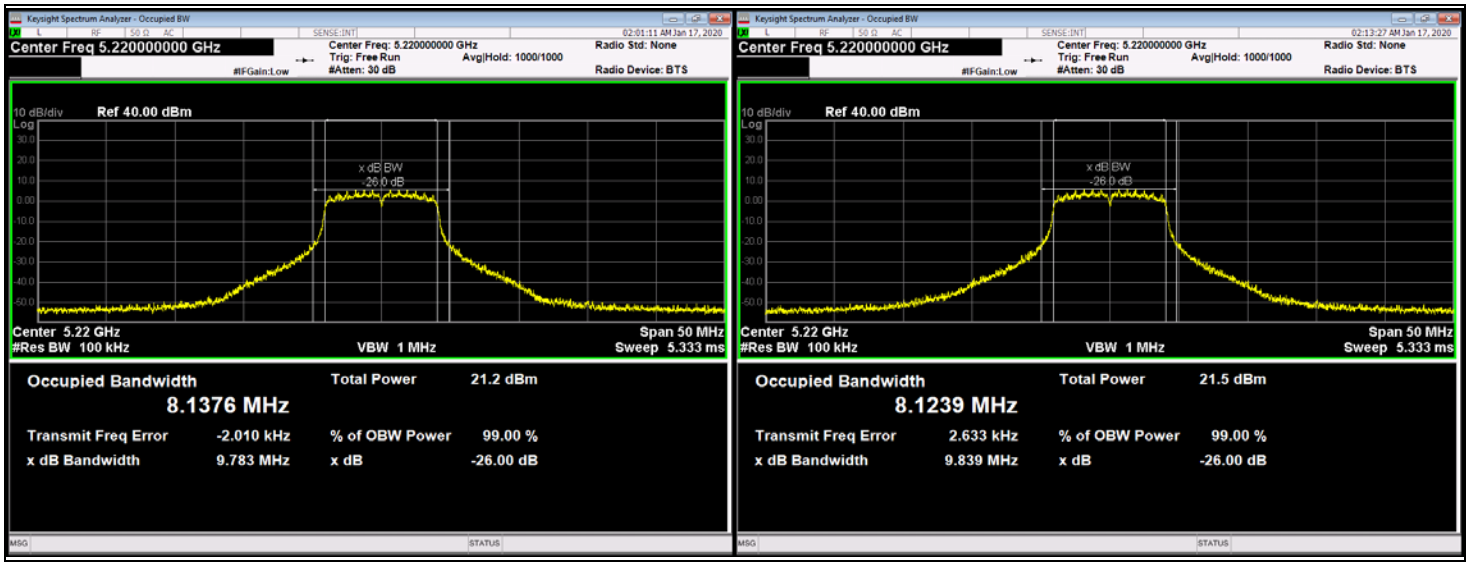
Antenna 1 + 2 (10MHz High Power)
Channel 36 (5180 MHz)



Antenna 1 + 2 (10MHz High Power)
Channel 44 (5220 MHz)



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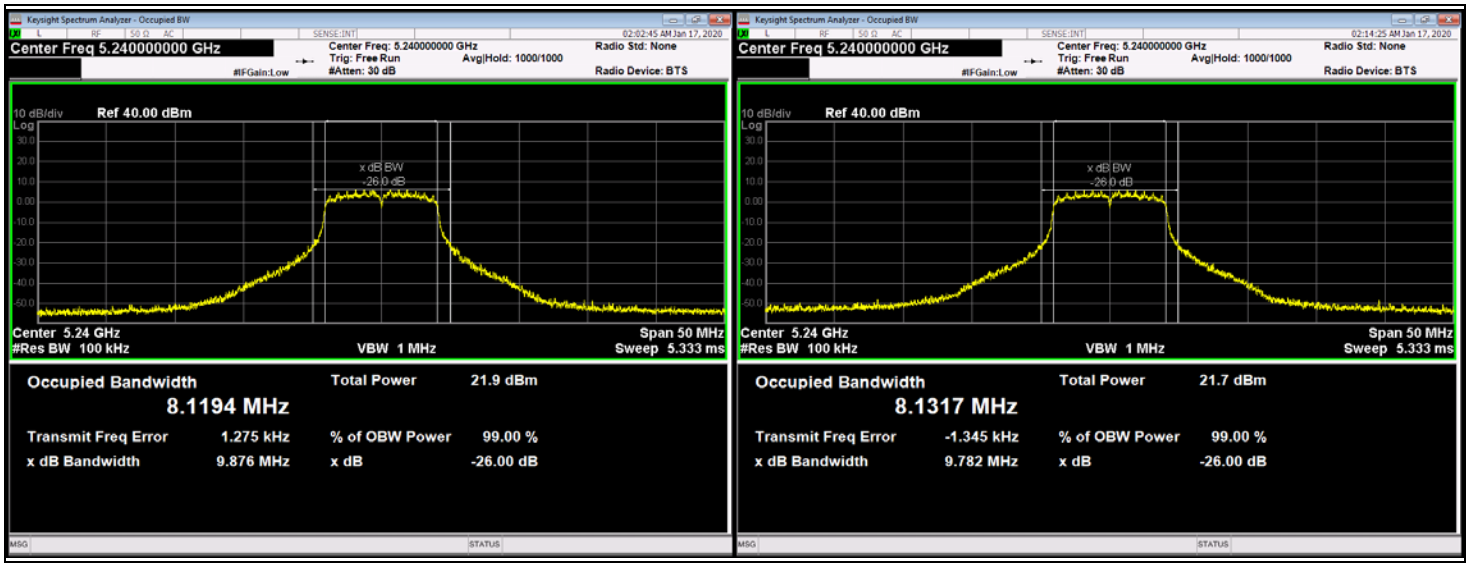
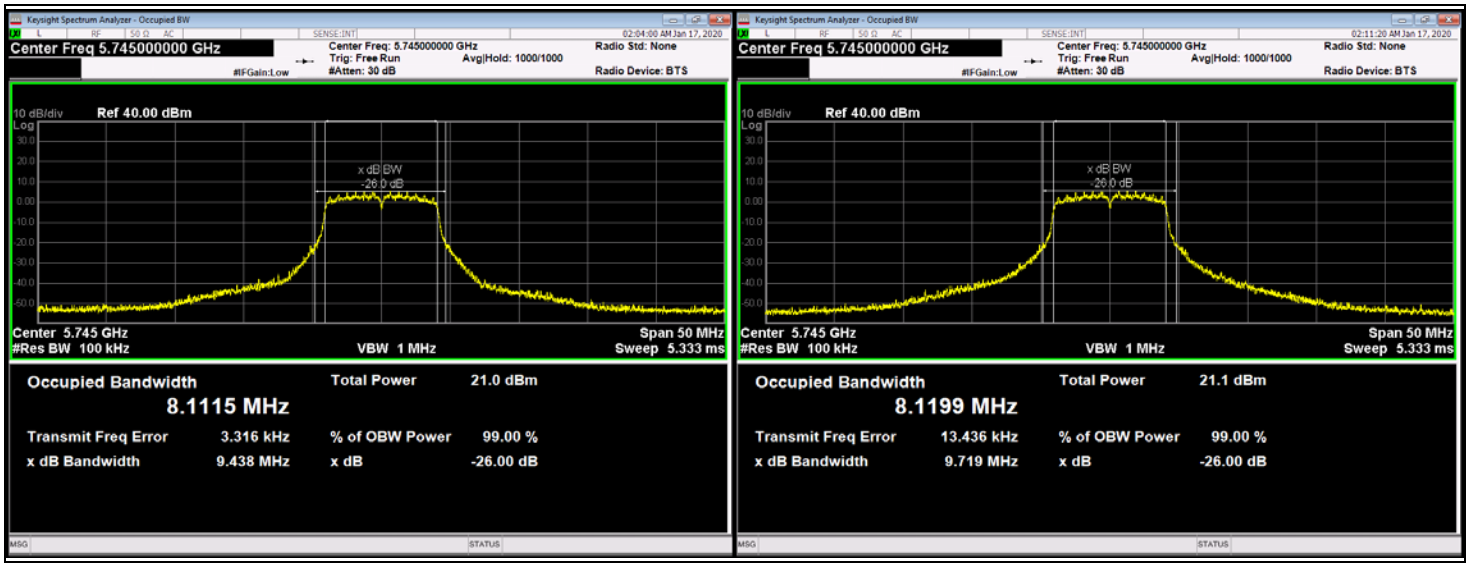
Antenna 1 + 2 (10MHz High Power)
Channel 48 (5240 MHz)



Antenna 1 + 2 (10MHz High Power)
Channel 149 (5745 MHz)



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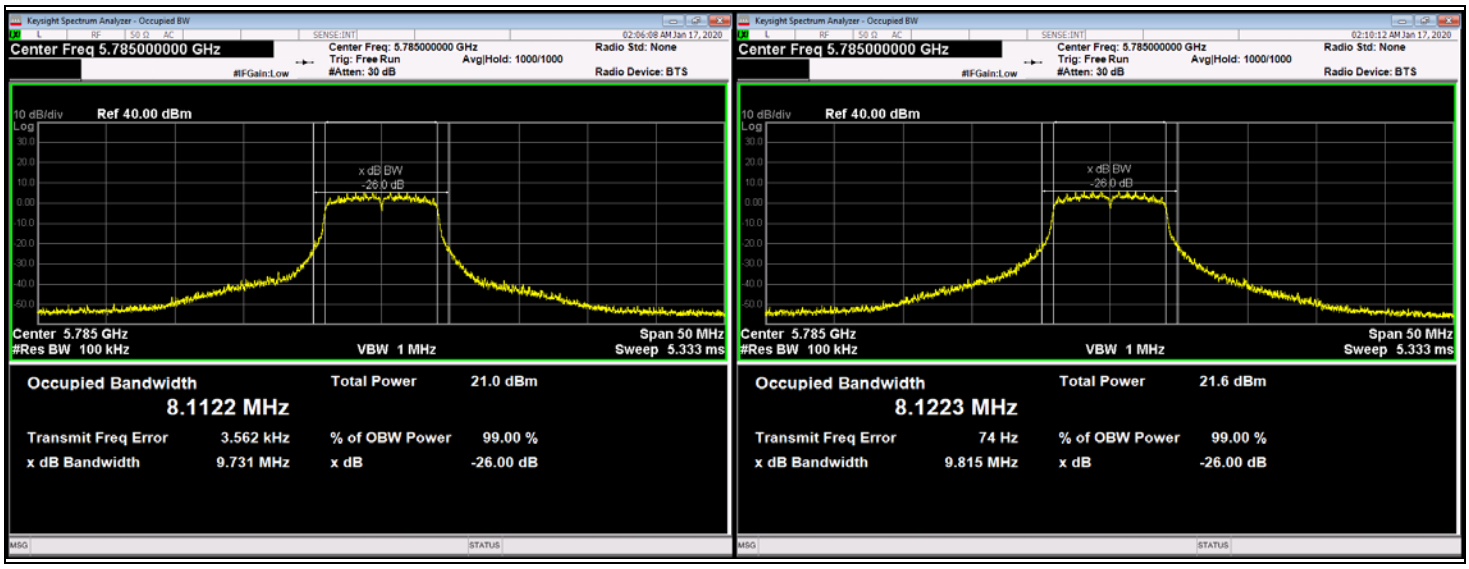
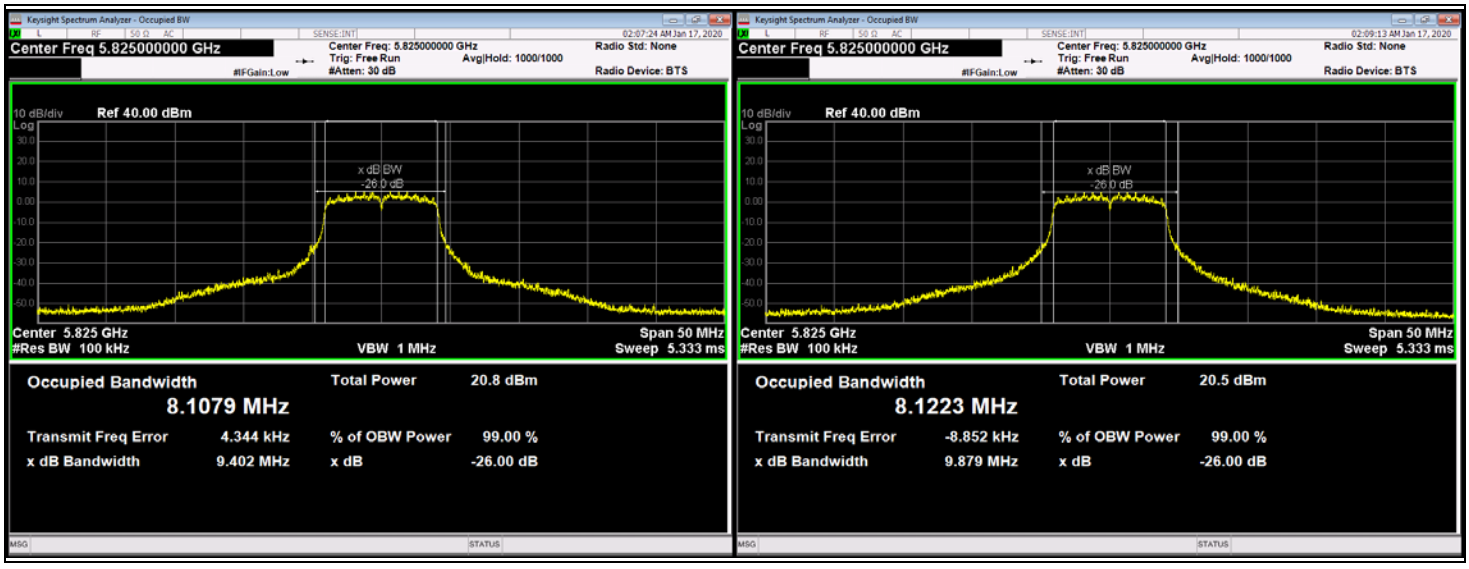
Antenna 1 + 2 (10MHz High Power)
Channel 157 (5785 MHz)



Antenna 1 + 2 (10MHz High Power)
Channel 165 (5825 MHz)



EMT ELECTRO MAGNETIC TEST, INC.
1547 Plymouth Street, Mountain View, CA 94043 Tel: (650) 965-4000 Fax: (650) 965-3000

Maximum Peak Output Power Test Data

Company:	Skydio, Inc.	Test Date	1/16/2020
EUT Name	Beacon	Test Engineer	Andreas Davidsson
Model:	SBEC1V1	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 (5MHz High Power)	1	36	5180	12.97	16.18	≤ 30	Pass
	2	36	5180	13.36			
	1	44	5220	12.64	15.60	≤ 30	Pass
	2	44	5220	12.54			
	1	48	5240	13.30	16.20	≤ 30	Pass
	2	48	5240	13.08			
U-NII-3 (5MHz High Power)	1	149	5745	12.51	16.14	≤ 30	Pass
	2	149	5745	13.67			
	1	157	5785	12.28	15.80	≤ 30	Pass
	2	157	5785	13.25			
	1	165	5825	11.68	14.49	≤ 30	Pass
	2	165	5825	11.28			
U-NII-1 (10MHz High Power)	1	36	5180	13.05	16.00	≤ 30	Pass
	2	36	5180	12.92			
	1	44	5220	12.50	15.65	≤ 30	Pass
	2	44	5220	12.77			
	1	48	5240	13.16	16.08	≤ 30	Pass
	2	48	5240	12.97			
U-NII-3 (10MHz High Power)	1	149	5745	12.43	15.50	≤ 30	Pass
	2	149	5745	12.54			
	1	157	5785	12.48	15.71	≤ 30	Pass
	2	157	5785	12.91			
	1	165	5825	12.13	14.94	≤ 30	Pass
	2	165	5825	11.73			

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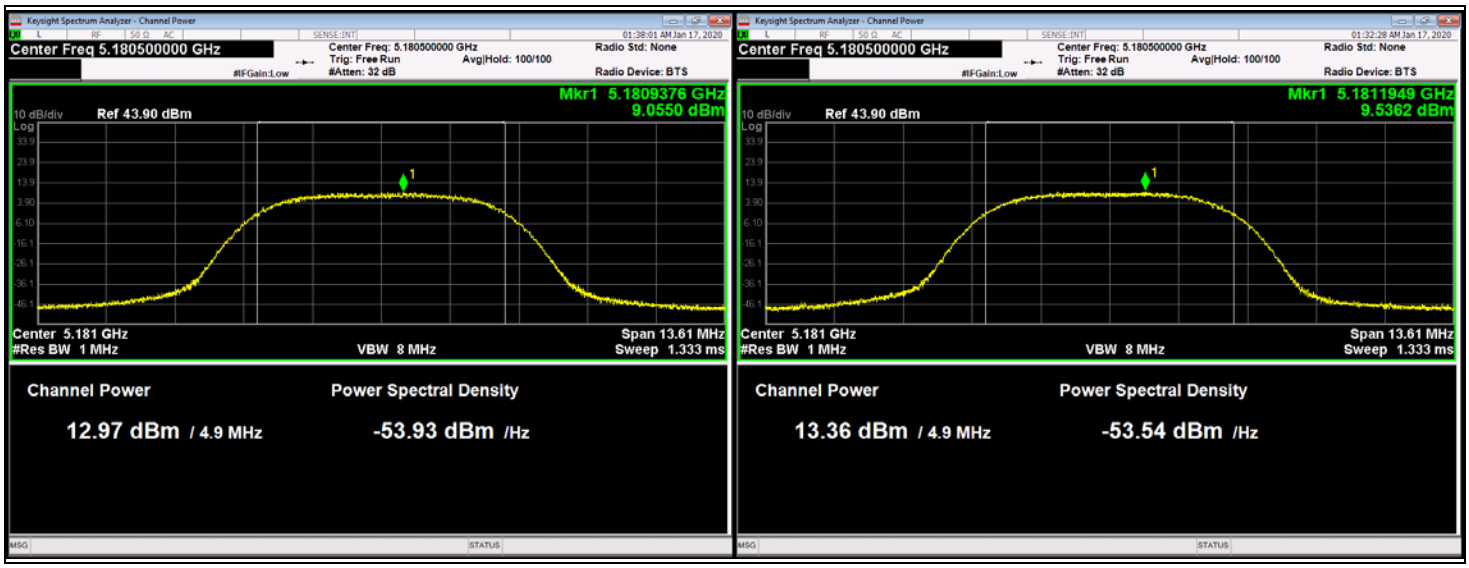
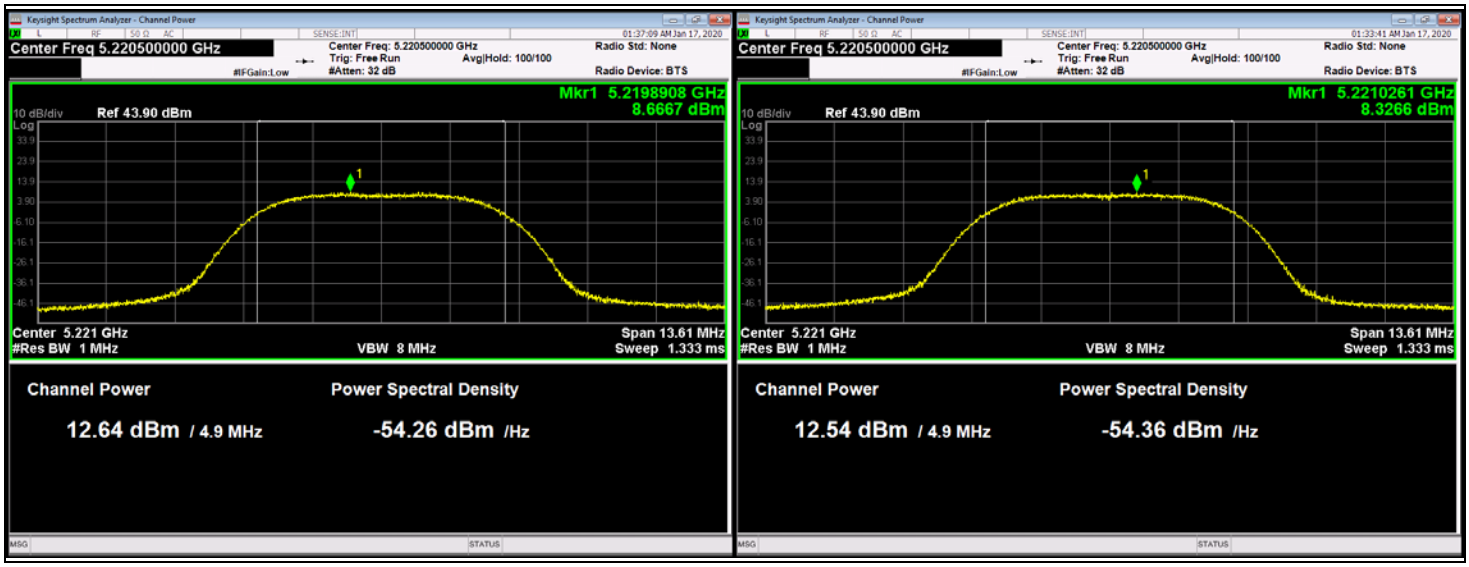
Antenna 1 + 2 (5MHz High Power)
Channel 36 (5180 MHz)



Antenna 1 + 2 (5MHz High Power)
Channel 44 (5220 MHz)



EMT ELECTRO MAGNETIC TEST, INC.
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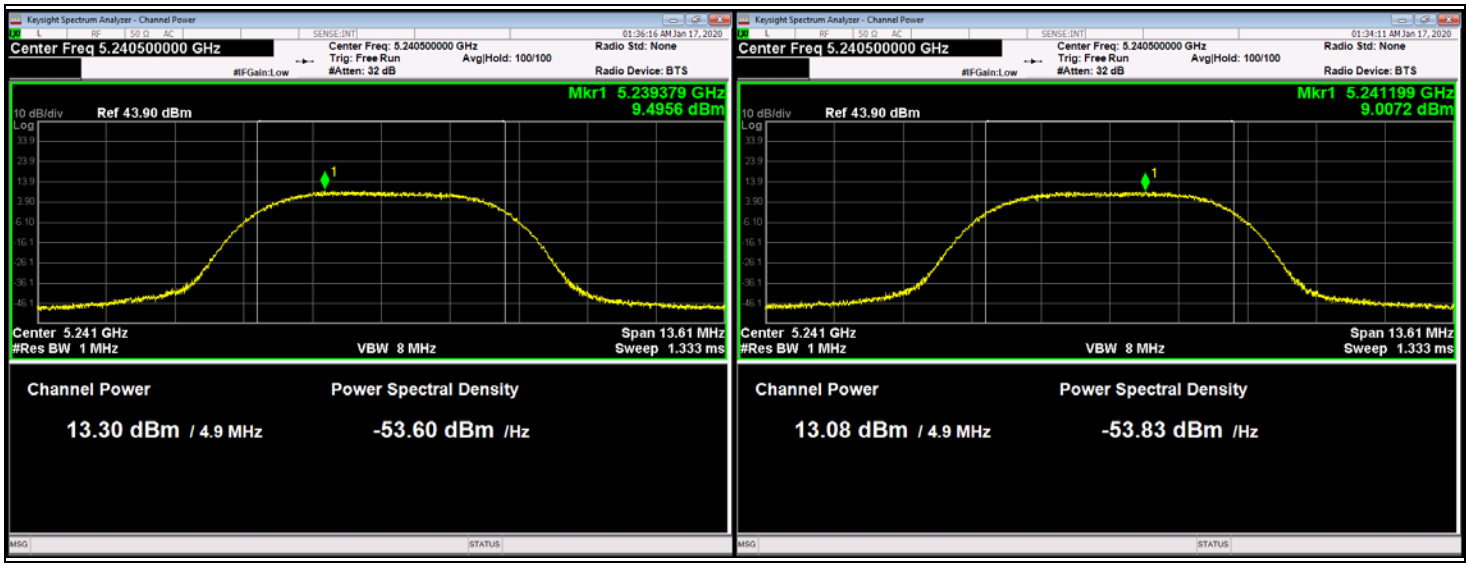
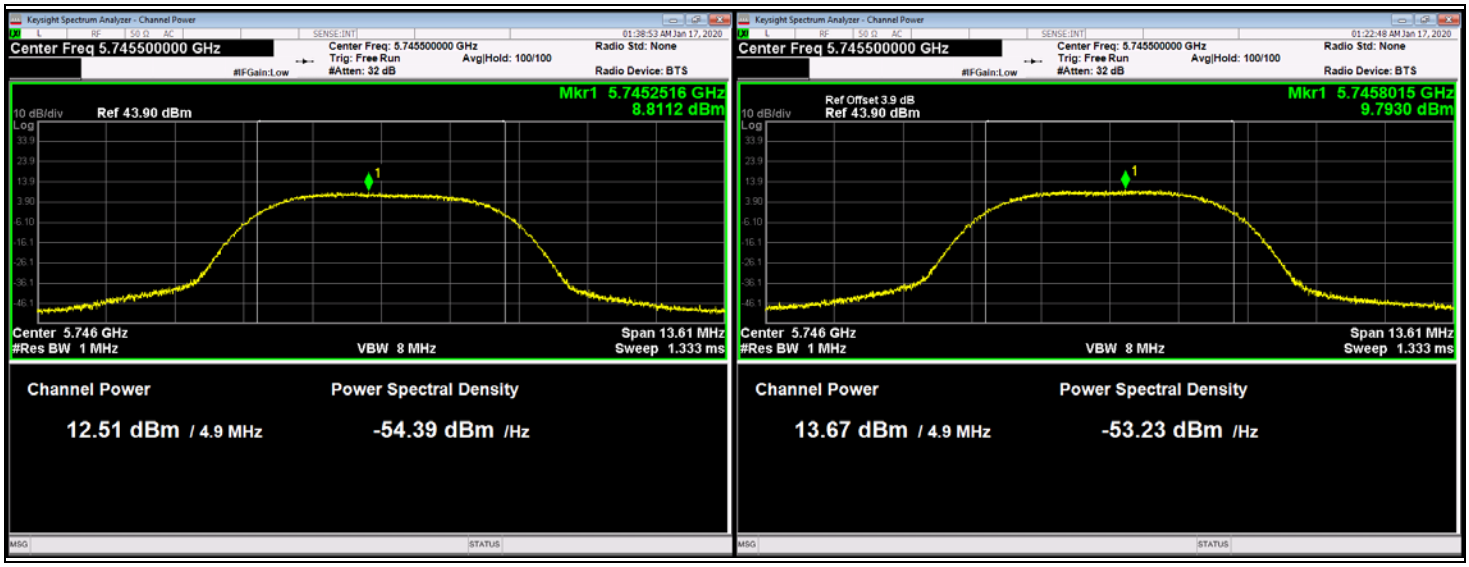
Antenna 1 + 2 (5MHz High Power)
Channel 48 (5240 MHz)

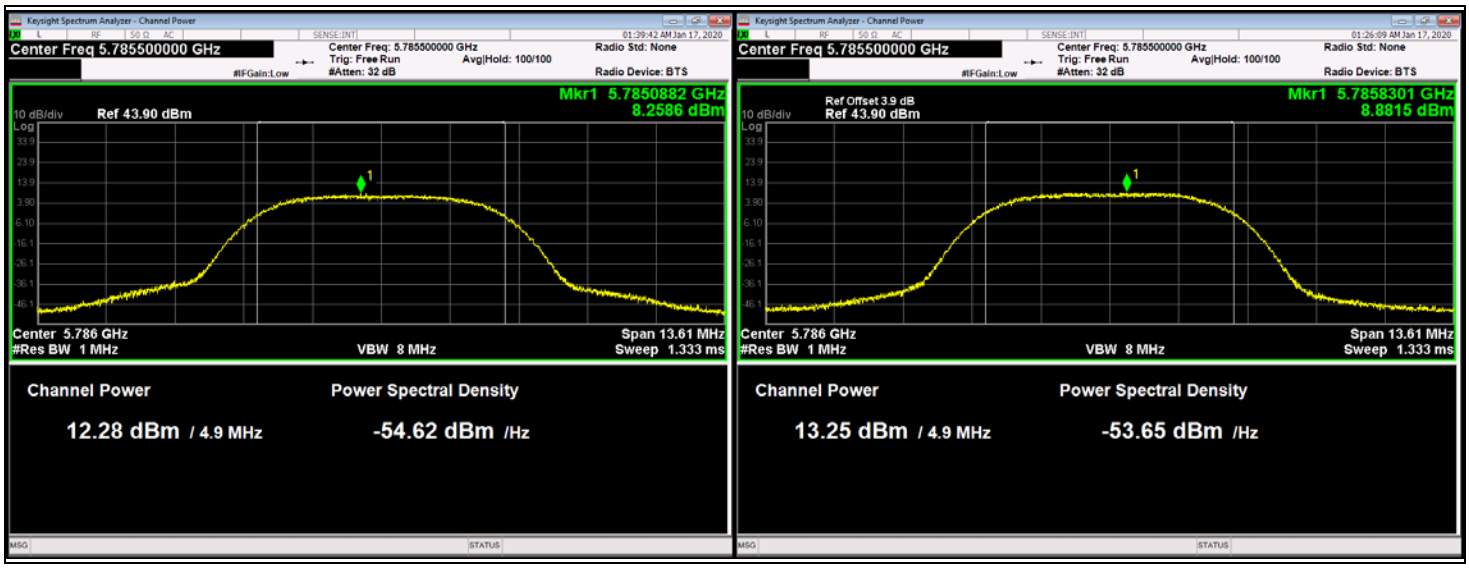


Antenna 1 + 2 (5MHz High Power)
Channel 149 (5745 MHz)

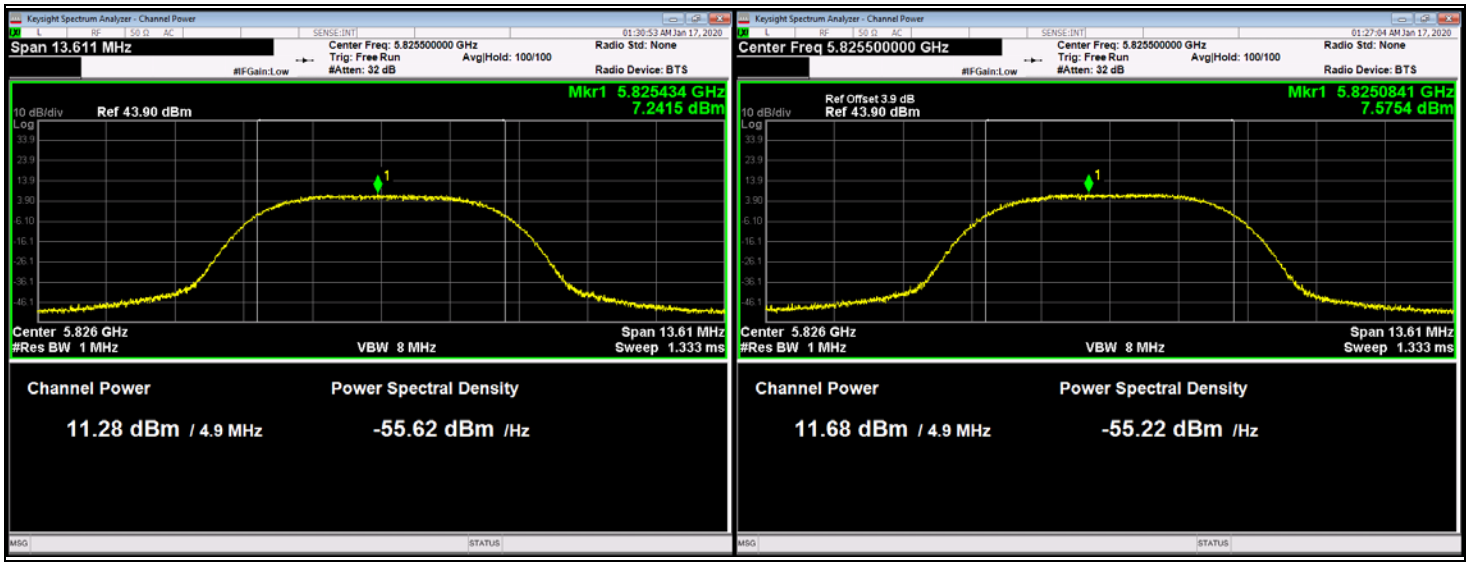


EMT ELECTRO MAGNETIC TEST, INC.
1547 Plymouth Street, Mountain View, CA 94043 Tel: (650) 965-4000 Fax: (650) 965-3000

Antenna 1 + 2 (5MHz High Power)
Channel 157 (5785 MHz)



Antenna 1 + 2 (5MHz High Power)
Channel 165 (5825 MHz)



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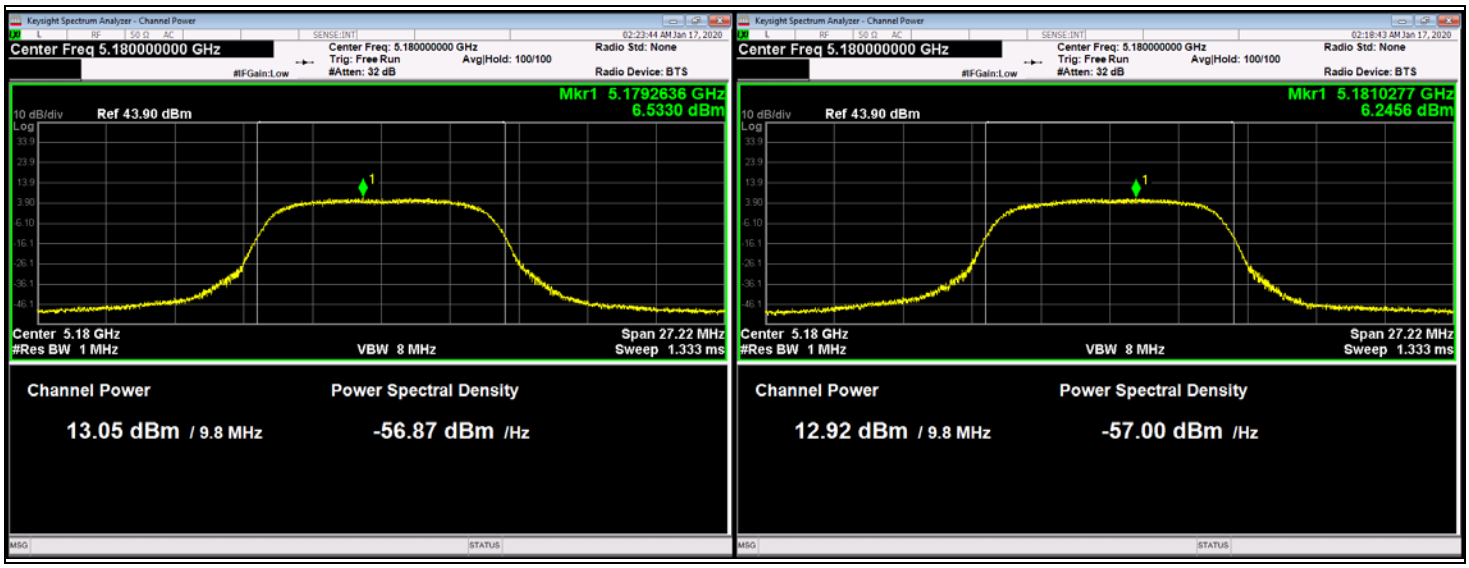
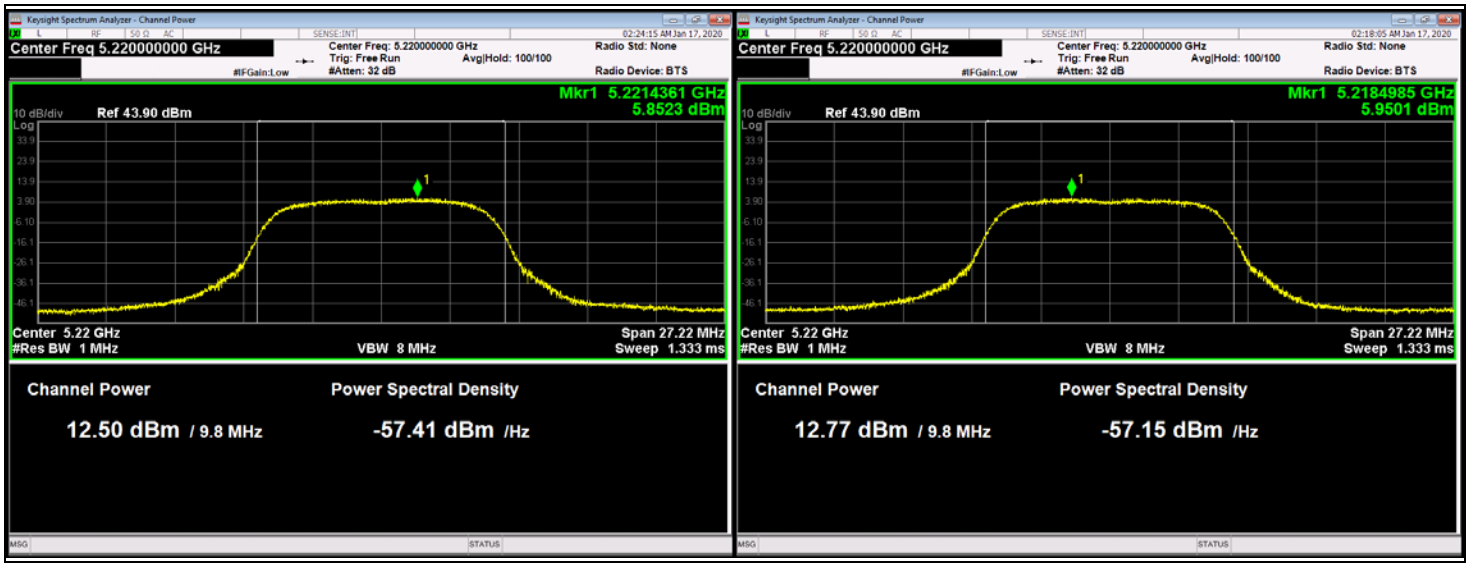
Antenna 1 + 2 (10MHz High Power)
Channel 36 (5180 MHz)



Antenna 1 + 2 (10MHz High Power)
Channel 44 (5220 MHz)



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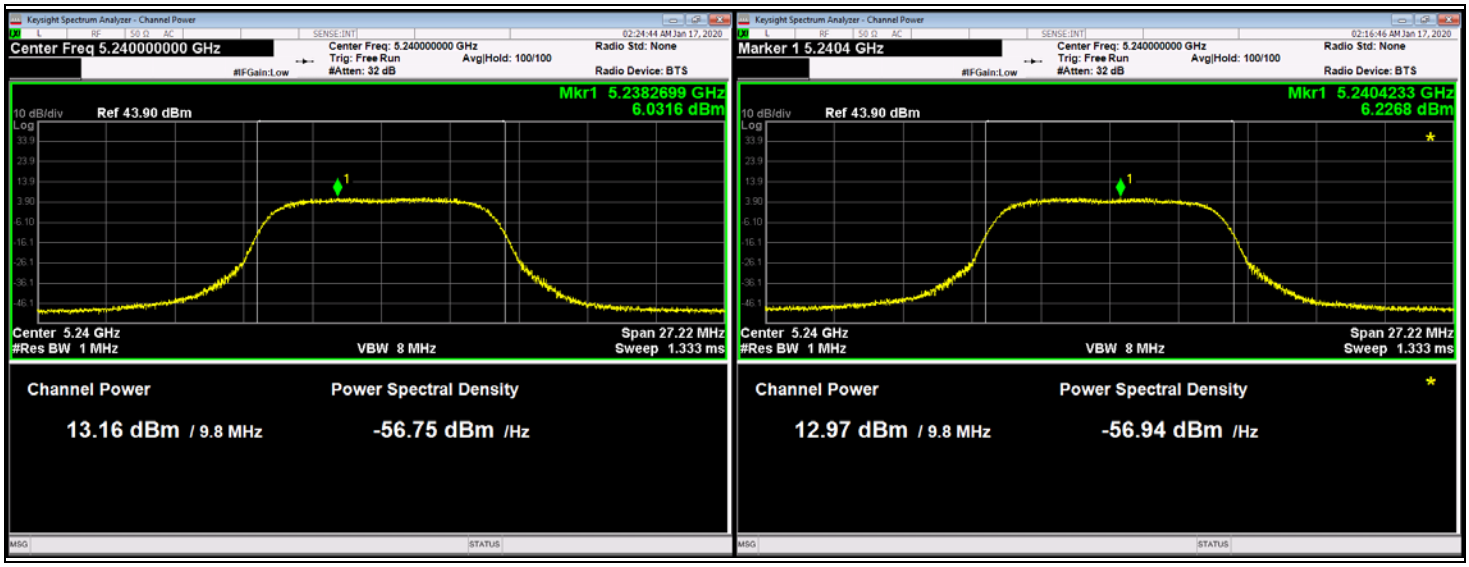
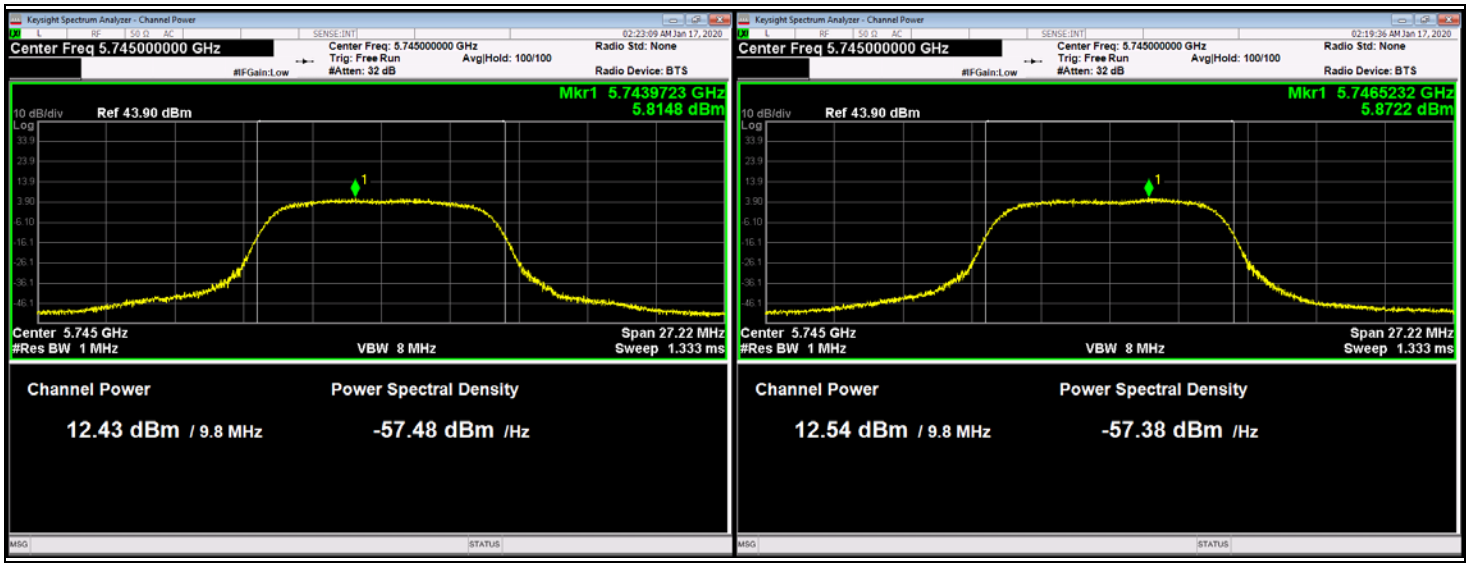
Antenna 1 + 2 (10MHz High Power)
Channel 48 (5240 MHz)



Antenna 1 + 2 (10MHz High Power)
Channel 149 (5745 MHz)



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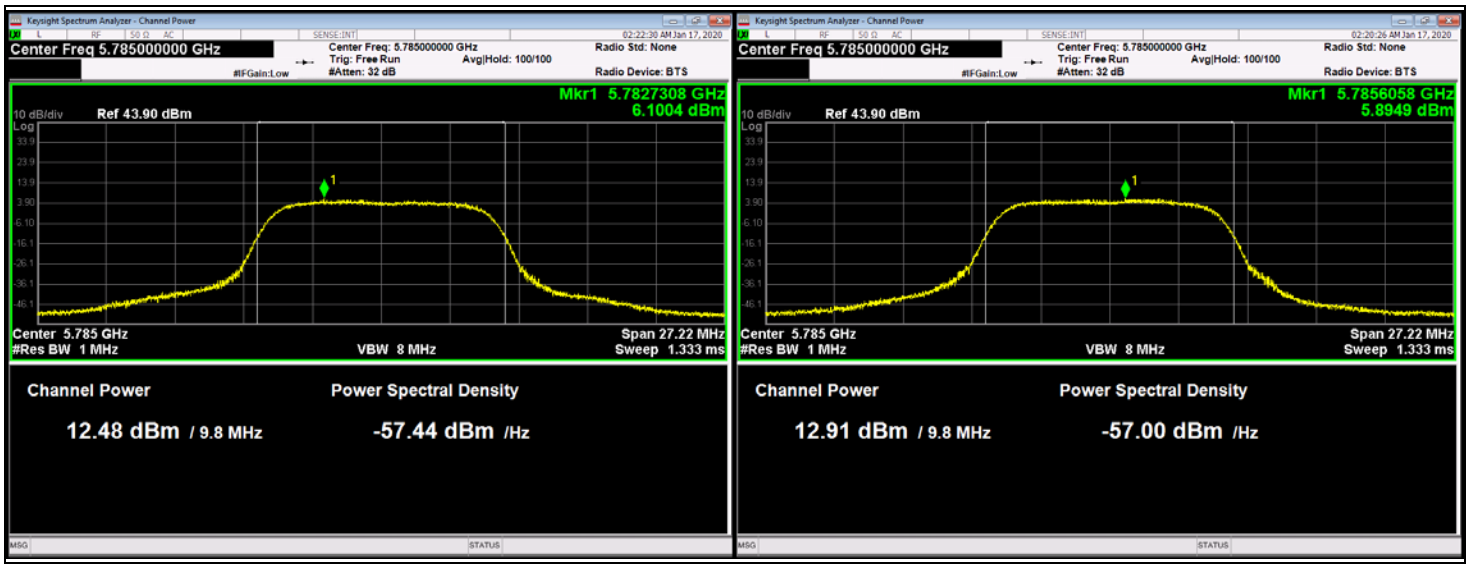
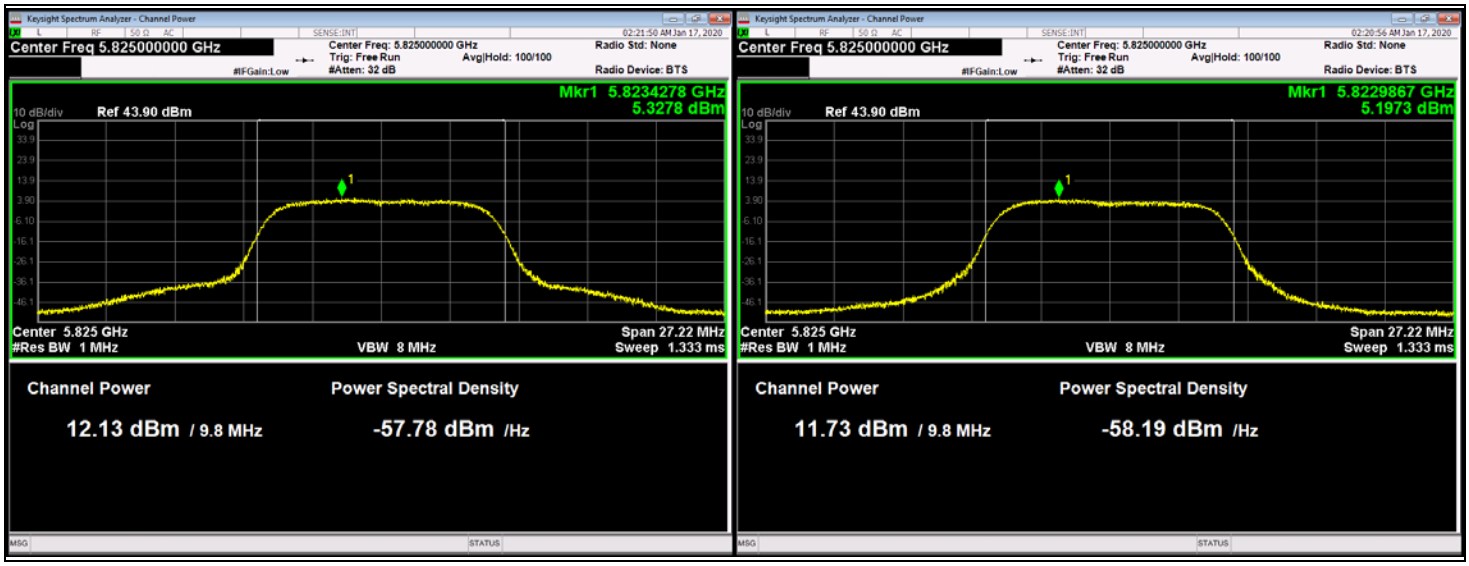
Antenna 1 + 2 (10MHz High Power)
Channel 157 (5785 MHz)



Antenna 1 + 2 (10MHz High Power)
Channel 165 (5825 MHz)



EMT ELECTRO MAGNETIC TEST, INC.
1547 Plymouth Street, Mountain View, CA 94043 Tel: (650) 965-4000 Fax: (650) 965-3000

Maximum Power Spectral Density Test Data

Company:	Skydio, Inc.	Test Date	1/16/2020
EUT Name	Beacon	Test Engineer	Andreas Davidsson
Model:	SBEC1V1	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 (5MHz High Power)	1	36	5180	9.06	12.31	≤ 17	Pass
	2	36	5180	9.54			
	1	44	5220	8.67	11.51	≤ 17	Pass
	2	44	5220	8.33			
	1	48	5240	9.50	12.27	≤ 17	Pass
	2	48	5240	9.01			
U-NII-3 (5MHz High Power)	1	149	5745	8.81	12.34	≤ 30	Pass
	2	149	5745	9.79			
	1	157	5785	8.26	11.56	≤ 30	Pass
	2	157	5785	8.82			
	1	165	5825	7.58	10.42	≤ 30	Pass
	2	165	5825	7.24			
U-NII-1 (10MHz High Power)	1	36	5180	6.53	9.40	≤ 17	Pass
	2	36	5180	6.25			
	1	44	5220	5.85	8.91	≤ 17	Pass
	2	44	5220	5.95			
	1	48	5240	6.01	9.13	≤ 17	Pass
	2	48	5240	6.23			
U-NII-3 (10MHz High Power)	1	149	5745	5.81	8.85	≤ 30	Pass
	2	149	5745	5.87			
	1	157	5785	6.10	9.01	≤ 30	Pass
	2	157	5785	5.89			
	1	165	5825	5.33	8.27	≤ 30	Pass
	2	165	5825	5.20			

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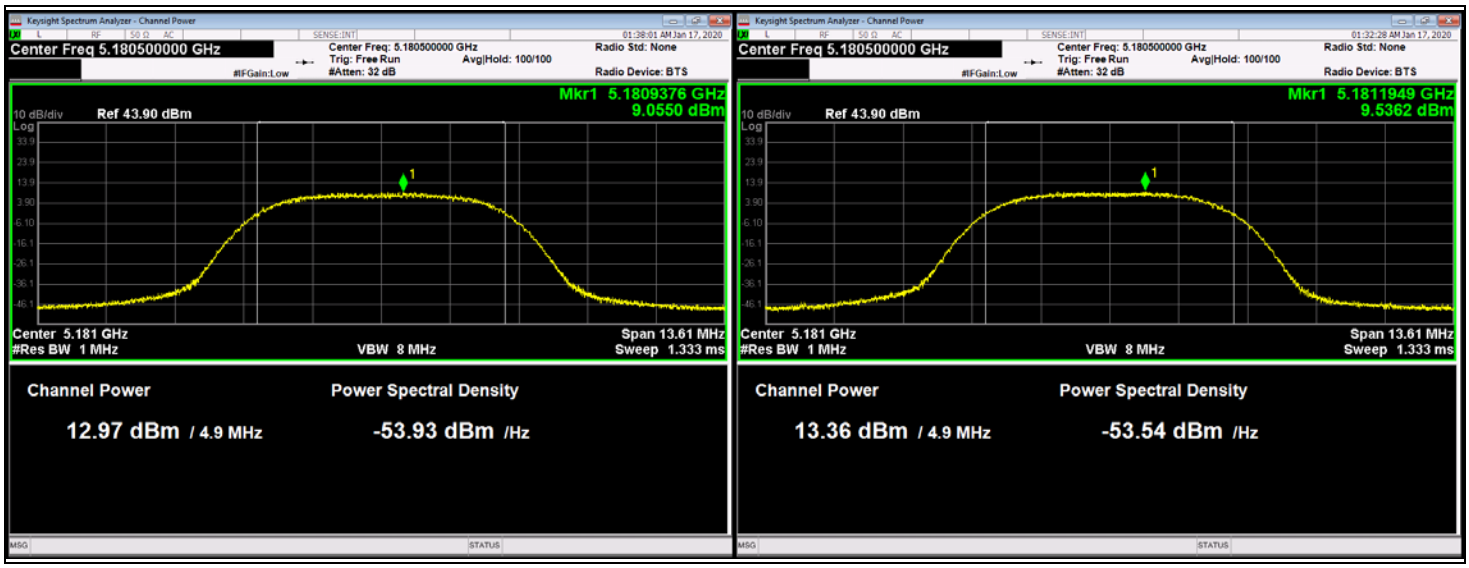
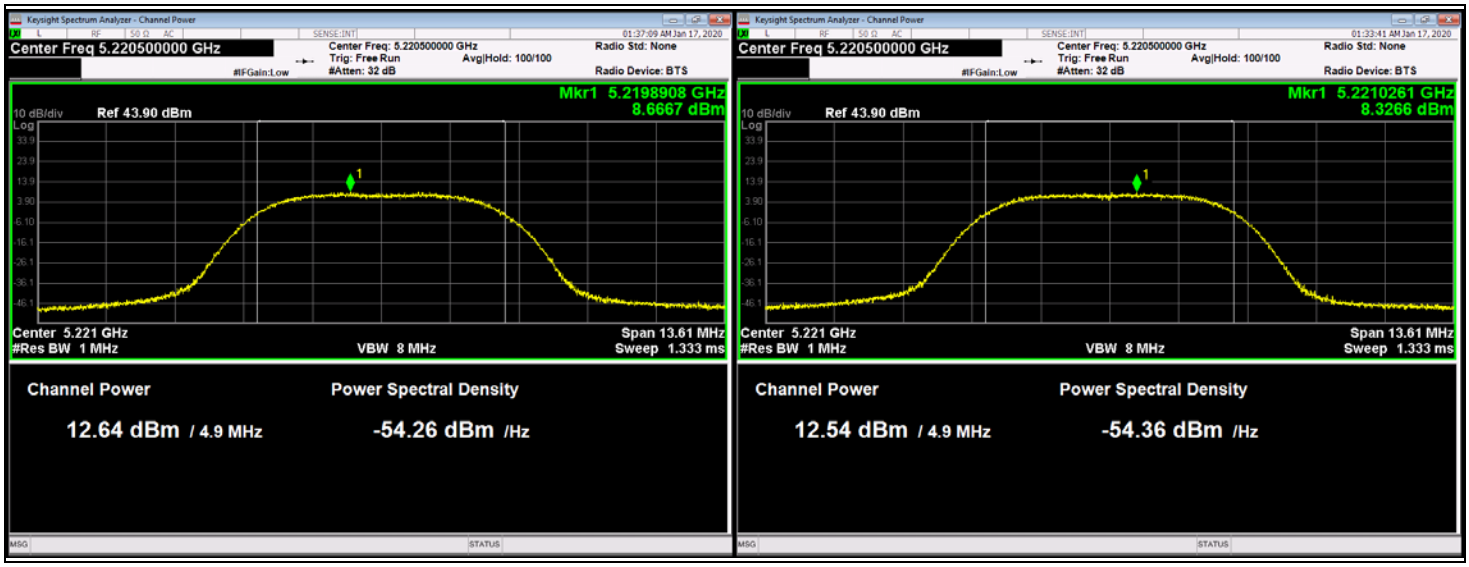
Antenna 1 + 2 (5MHz High Power)
Channel 36 (5180 MHz)



Antenna 1 + 2 (5MHz High Power)
Channel 44 (5220 MHz)



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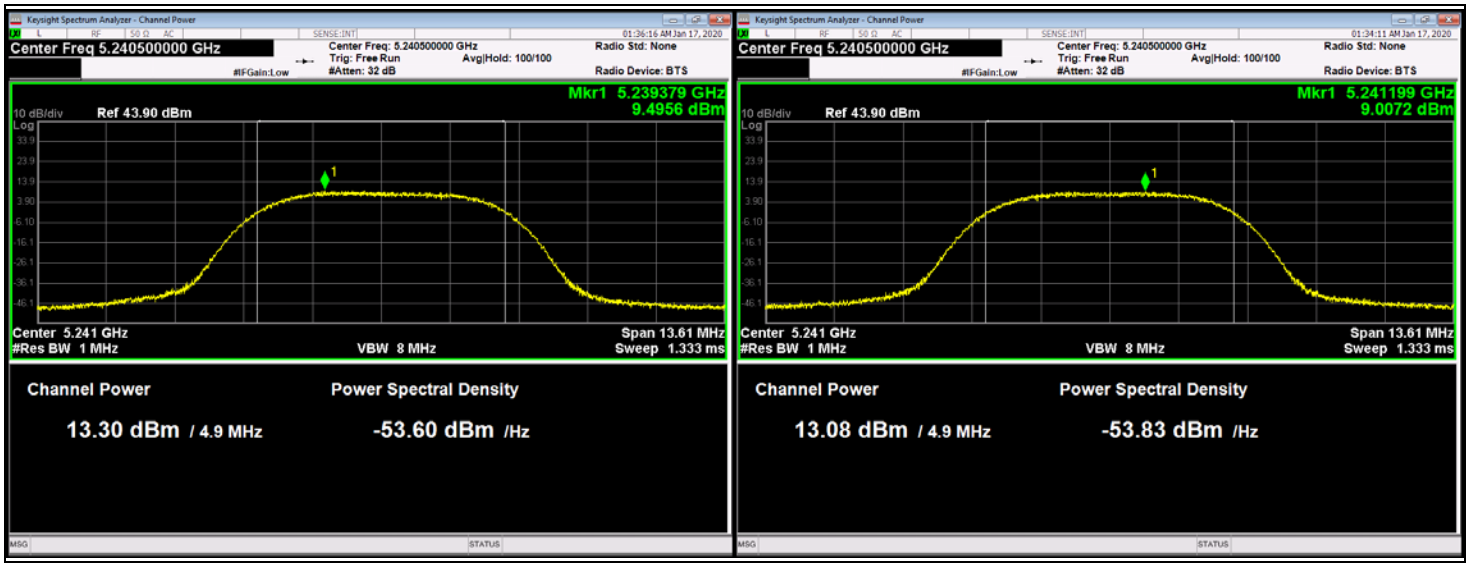
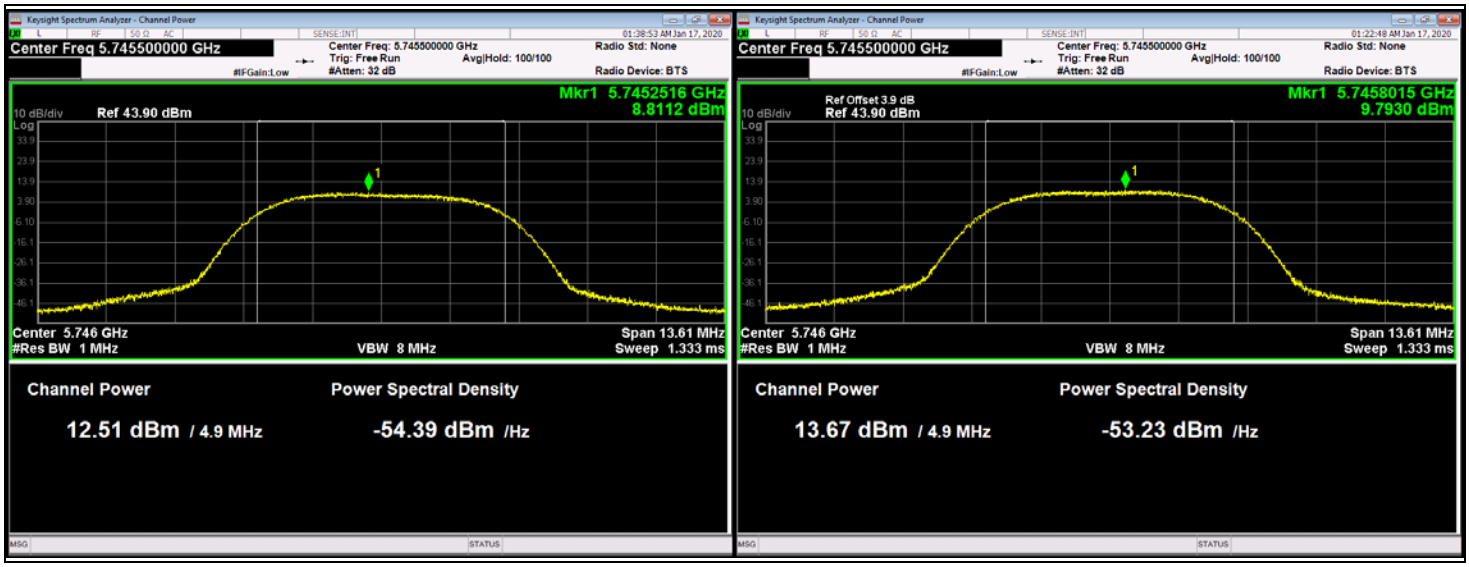
Antenna 1 + 2 (5MHz High Power)
Channel 48 (5240 MHz)



Antenna 1 + 2 (5MHz High Power)
Channel 149 (5745 MHz)



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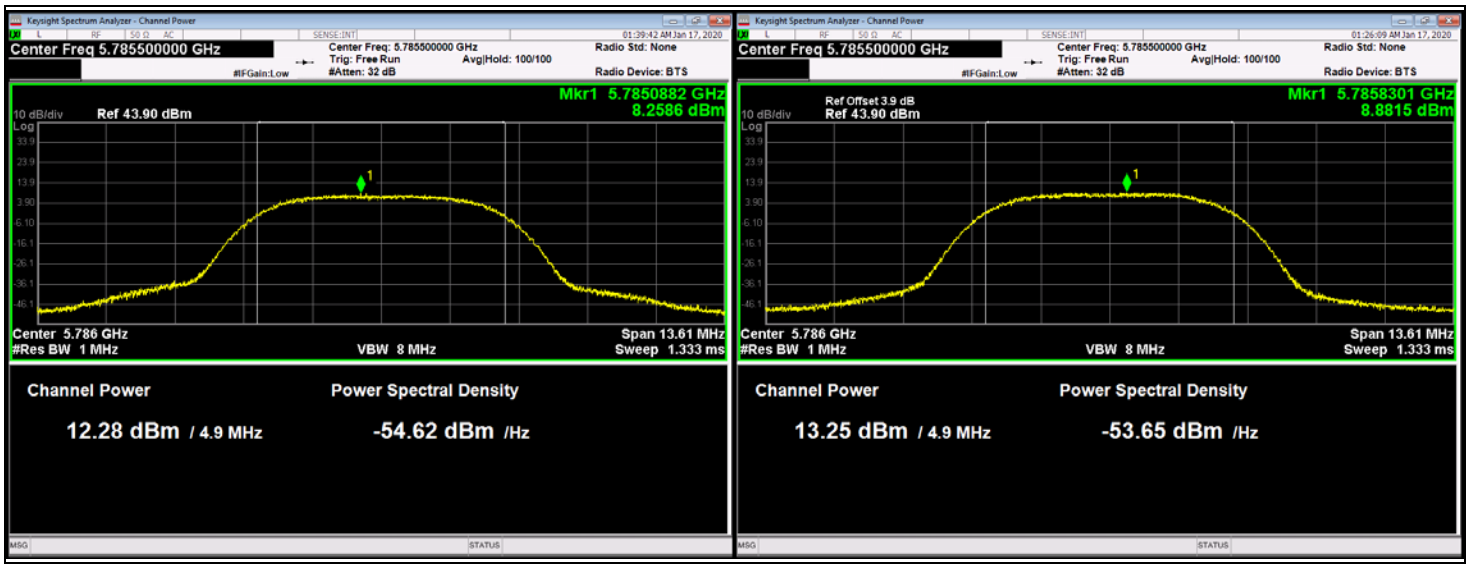
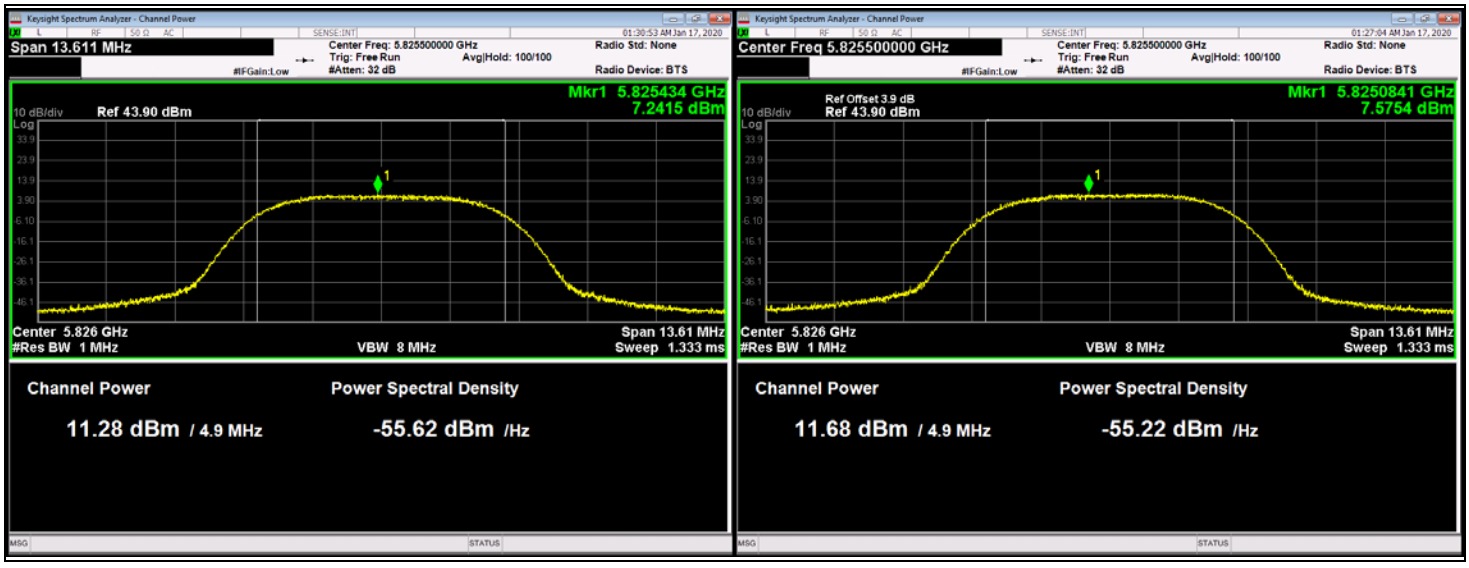
Antenna 1 + 2 (5MHz High Power)
Channel 157 (5785 MHz)



Antenna 1 + 2 (5MHz High Power)
Channel 165 (5825 MHz)



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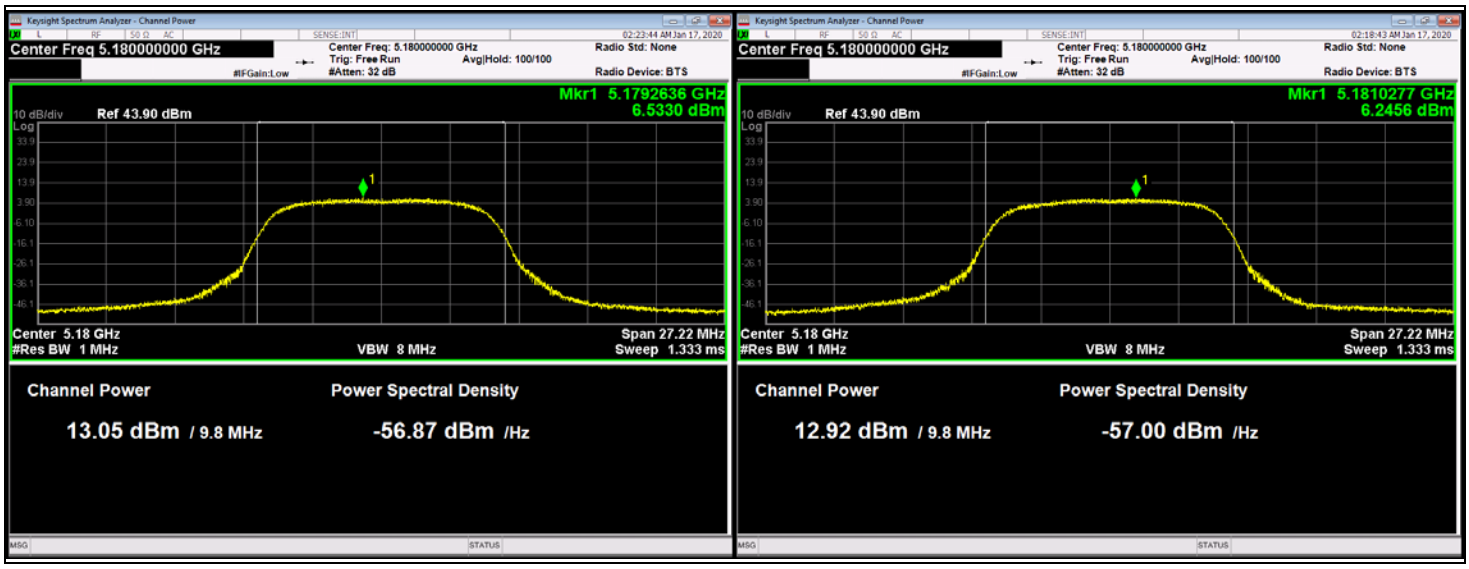
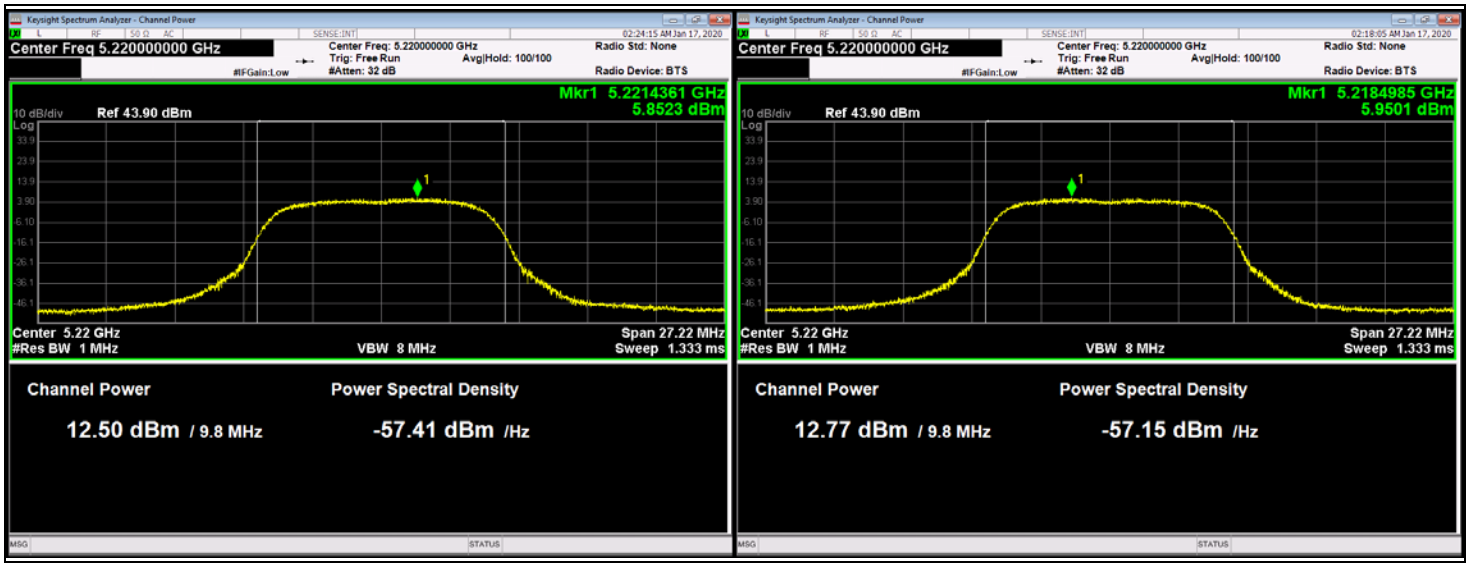
Antenna 1 + 2 (10MHz High Power)
Channel 36 (5180 MHz)



Antenna 1 + 2 (10MHz High Power)
Channel 44 (5220 MHz)



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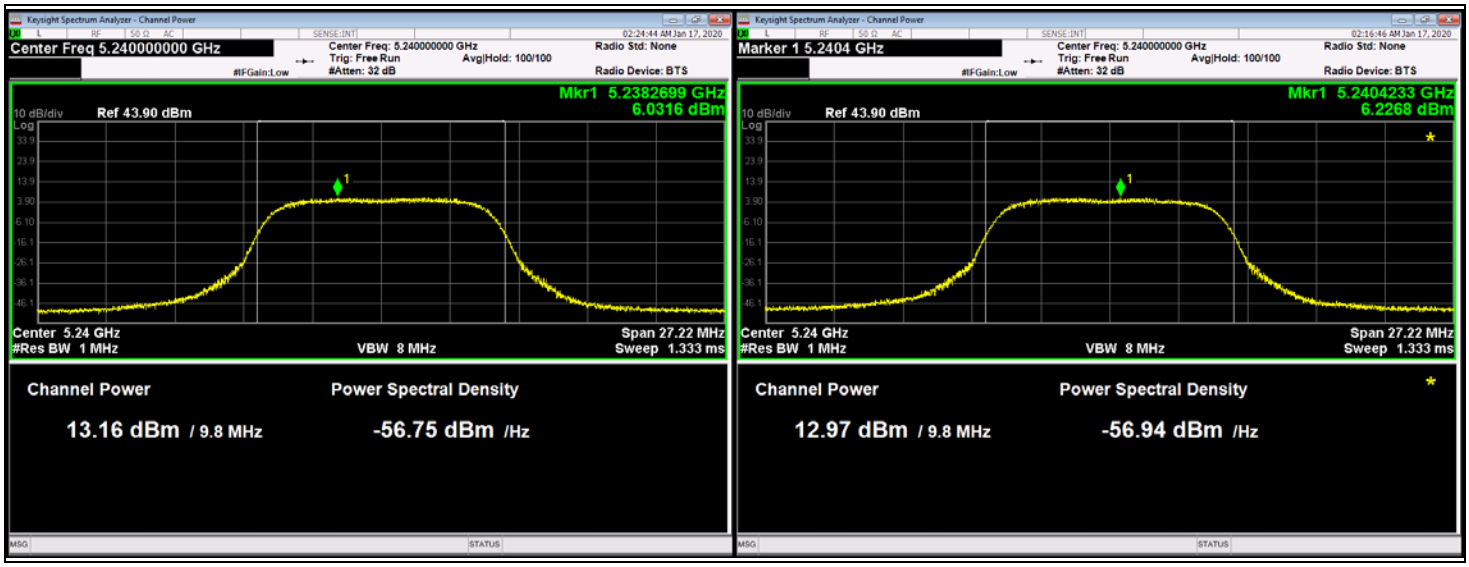
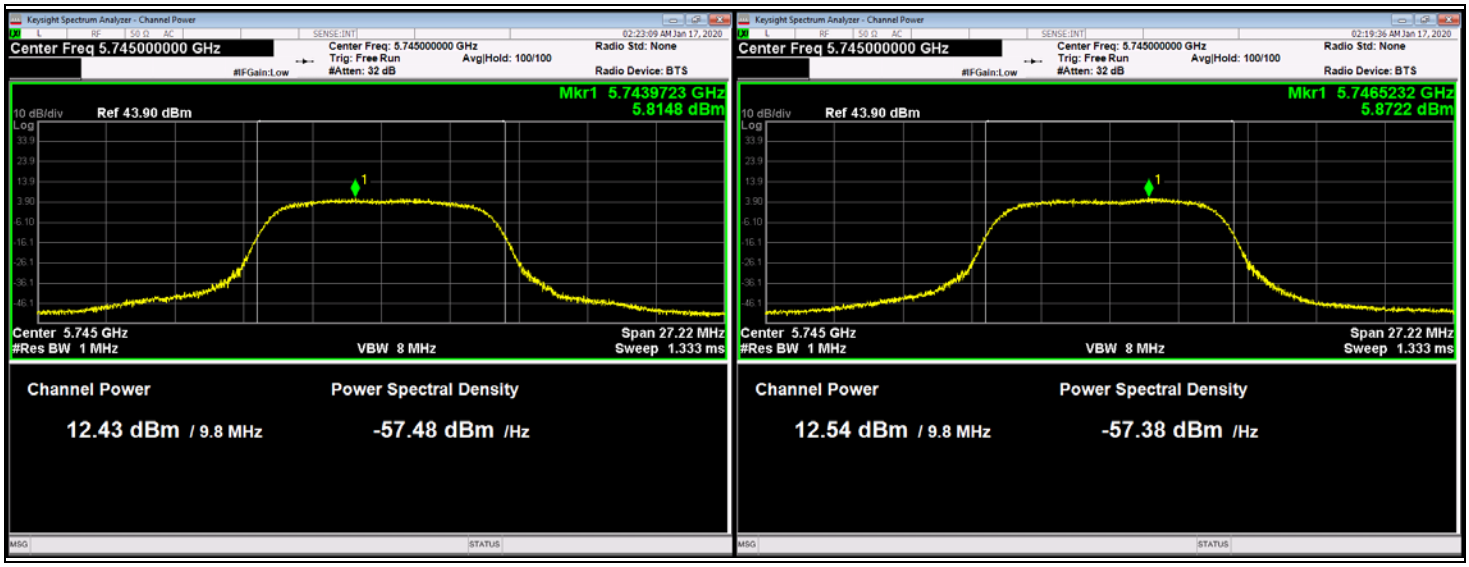
Antenna 1 + 2 (10MHz High Power)
Channel 48 (5240 MHz)



Antenna 1 + 2 (10MHz High Power)
Channel 149 (5745 MHz)



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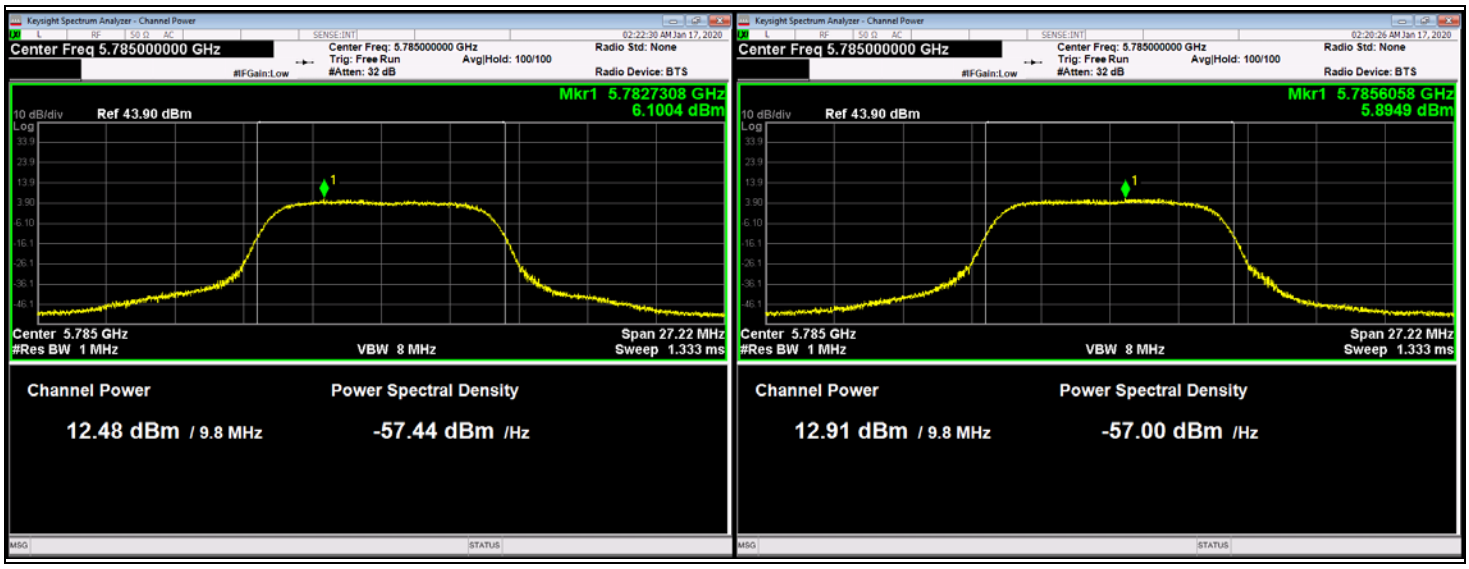
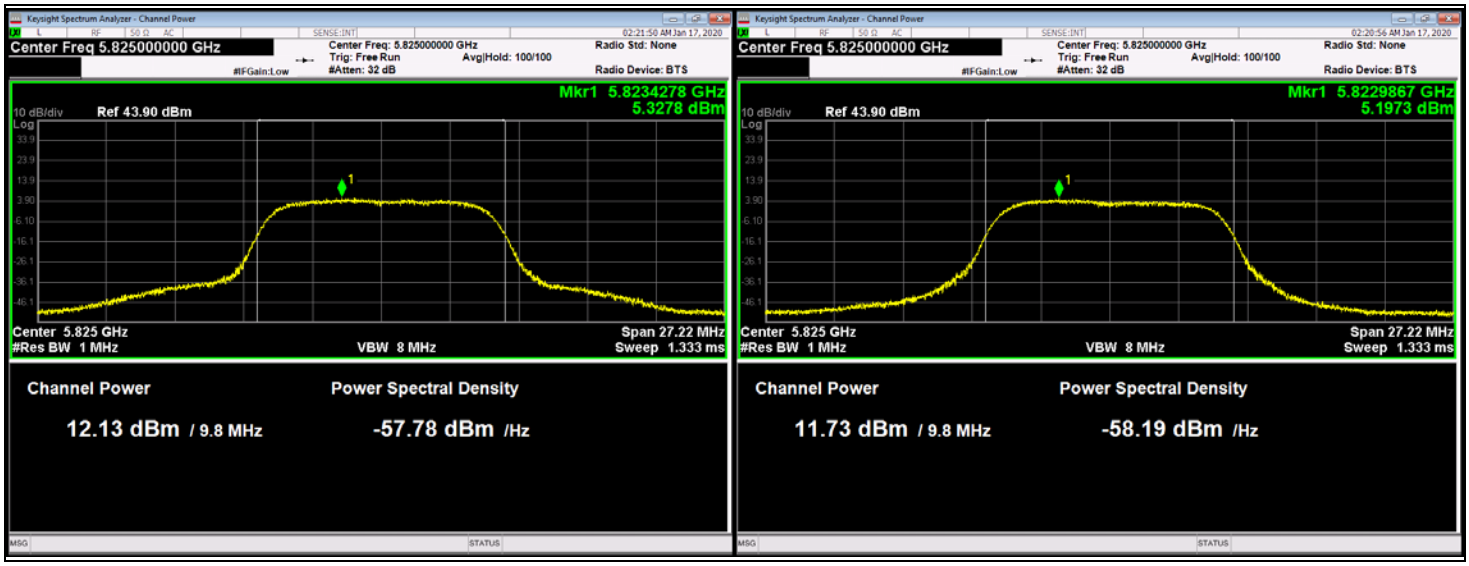
Antenna 1 + 2 (10MHz High Power)
Channel 157 (5785 MHz)



Antenna 1 + 2 (10MHz High Power)
Channel 165 (5825 MHz)



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APPENDIX B

TEST SETUP DIAGRAMS

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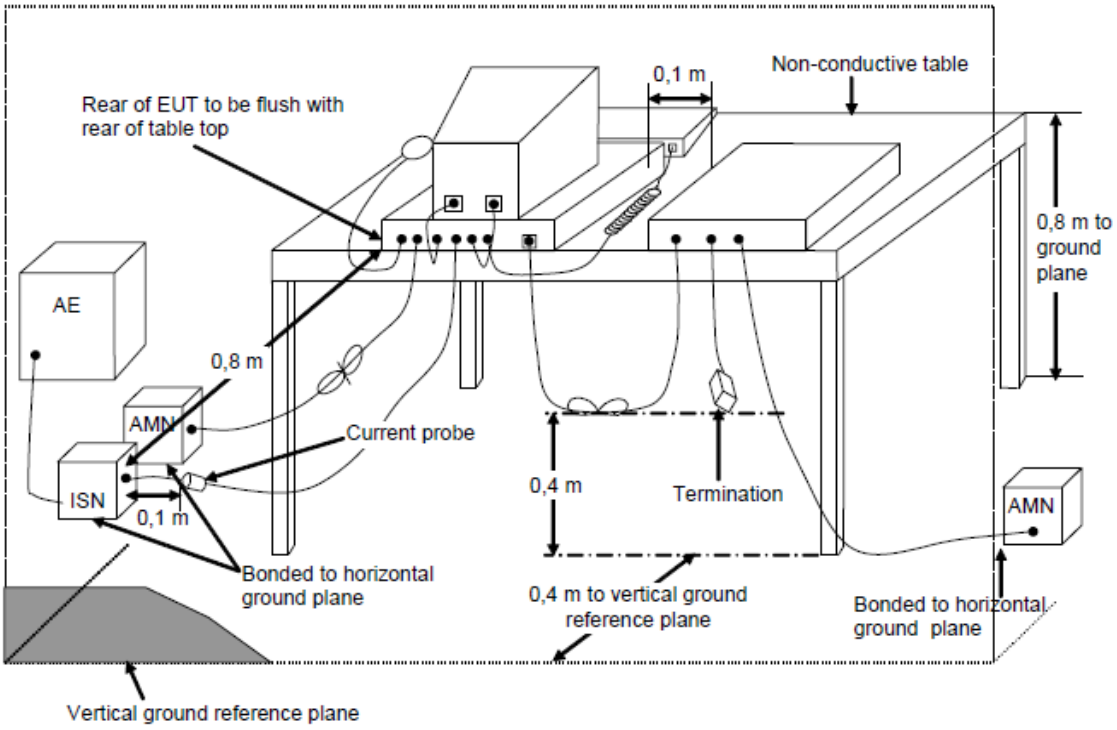

FIGURE 1 – TABLETOP CONDUCTED EMISSIONS TEST SETUP – SITE "D"

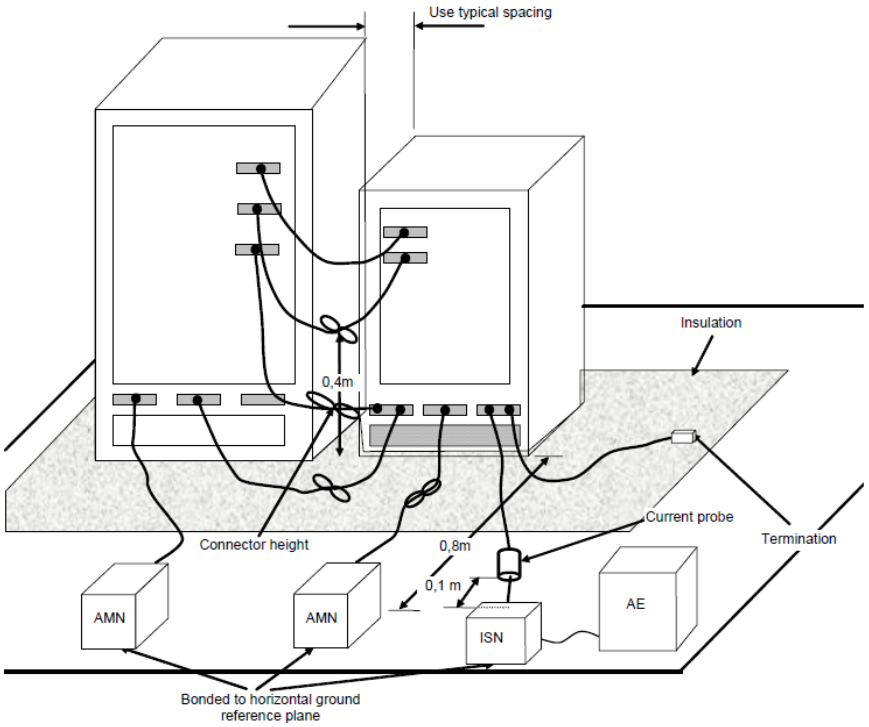

FIGURE 1a – FLOORSTANDING CONDUCTED EMISSIONS TEST SETUP – SITE "D"

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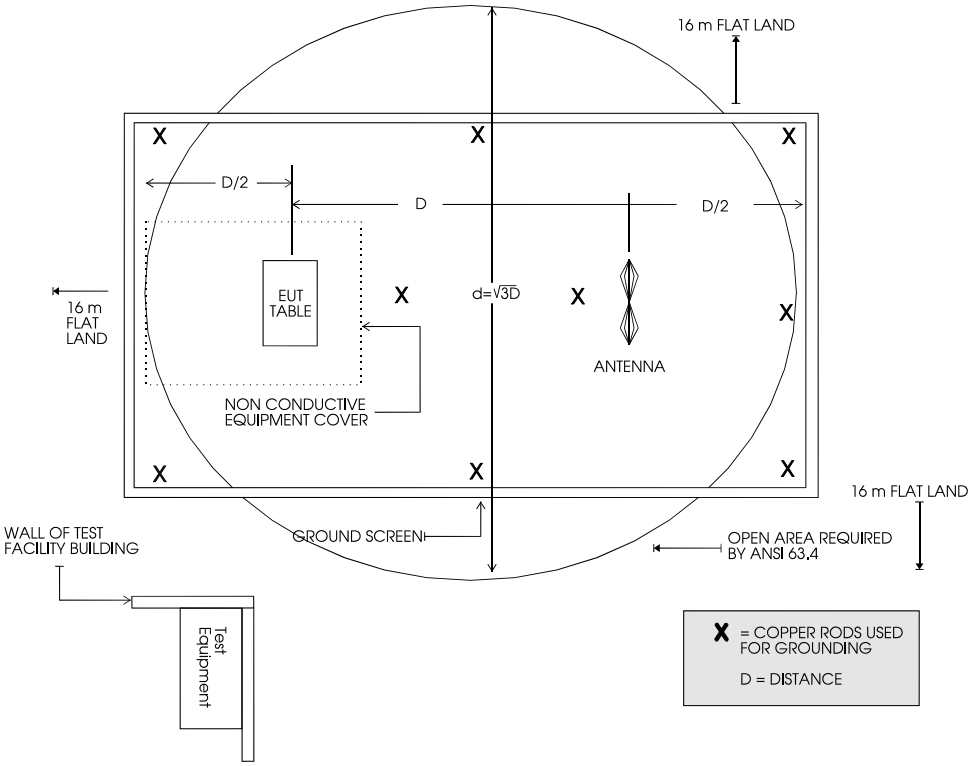

FIGURE 2 - PLOT MAP AND LAYOUT OF TEST SITE "A"

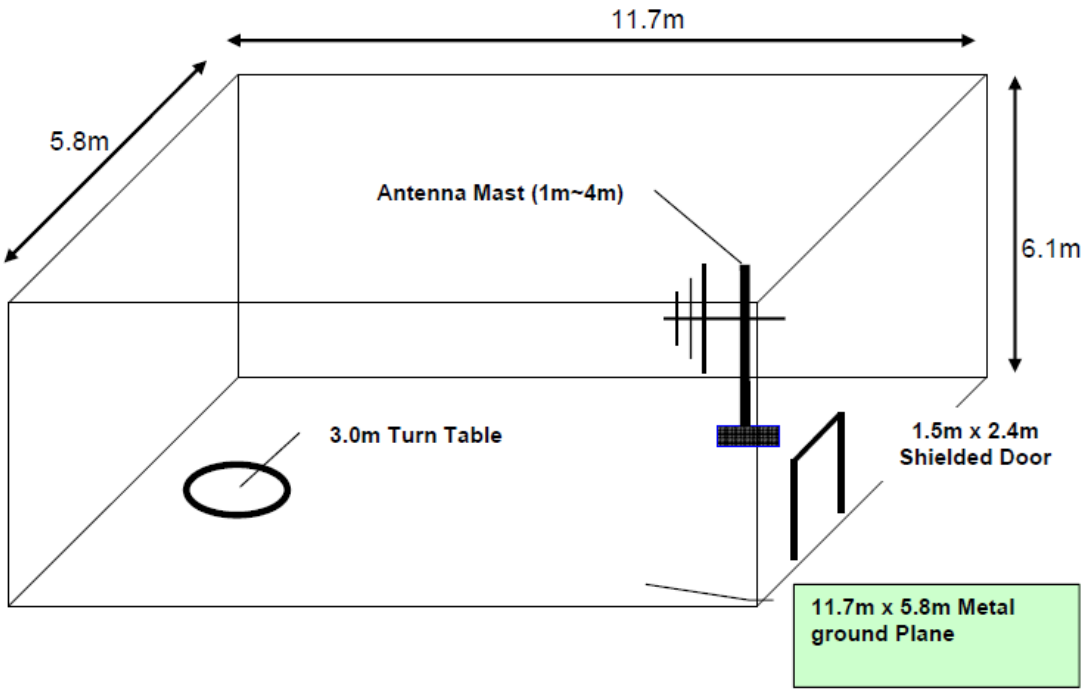

FIGURE 3 - LAYOUT OF 5 METER SEMI-ANECHOIC CHAMBER

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APPENDIX C

MODIFICATIONS TO THE EUT

EMT 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.

EMT ELECTRO MAGNETIC TEST, INC.
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APPENDIX D

ADDITIONAL MODELS COVERED UNDER THIS REPORT

EMT ELECTRO MAGNETIC TEST, INC.
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ADDITIONAL MODELS COVERED UNDER THIS REPORT

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

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End of Report

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