

Luxshare Precision Industry Co.,Ltd.

TEST REPORT

SCOPE OF WORK

FCC TESTING—VSN:110125667

REPORT NUMBER

240307044SZN-004

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TEST REPORT

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Intertek Report No.: 240307044SZN-004

Luxshare Precision Industry Co.,Ltd.

**Application
For
Certification**

FCC ID: 2AYYS-8822K4VTG

on. 4K Streaming Box

Model: VSN:110125667

2.4GHz Wi-Fi Transceiver

Report No.: 240307044SZN-004

We hereby certify that the sample of the above item is considered to comply with the requirements of FCC Part 15, Subpart C for Intentional Radiator, mention 47 CFR [10-1-22]

Prepared and Checked by:

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Approved by:

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Project Engineer
Date: 18 March 2024**

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MEASUREMENT/TECHNICAL REPORT

This report concerns (check one) Original Grant Class II Change

Equipment Type: DTS - Part 15 Digital Transmission Systems (Wi-Fi transmitter portion)

Deferred grant requested per 47 CFR 0.457(d)(1)(ii)? Yes No

If yes, defer until : _____
date

Company Name agrees to notify the Commission by: _____
date

of the intended date of announcement of the product so that the grant can be issued on that date.

Transition Rules Request per 15.37? Yes No

If no, assumed Part 15, Subpart C for intentional radiator - the new 47 CFR [10-01-21] Edition] provision.

Report prepared by:

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Table of Contents

1.0	Summary of Test results	4
2.0	<u>General Description</u>	5
2.1	Product Description	5
2.2	Related Submittal(s) Grants	5
2.3	Test Methodology.....	5
2.4	Test Facility	5
3.0	<u>System Test Configuration</u>	6
3.1	Justification.....	6
3.2	EUT Exercising Software.....	6
3.3	Special Accessories	7
3.4	Measurement Uncertainty.....	7
3.5	Equipment Modification	7
3.6	Support Equipment List and Description.....	7
4.0	<u>Measurement Results</u>	8
4.9	Radiated Spurious Emission	8
5.0	<u>Equipment Photographs</u>	16
6.0	<u>Product Labelling</u>	16
7.0	<u>Technical Specifications</u>	16
8.0	<u>Instruction Manual</u>	16
9.0	<u>Confidentiality Request</u>	16
10.0	<u>Discussion of Pulse Desensitization</u>	16
11.0	<u>Test Equipment List</u>	17

1.0 Summary of Test results

Applicant: Luxshare Precision Industry Co.,Ltd.

Applicant Address: Floor 2, Block A, Sanyo New Industrial Area, West Haoyi Community, Shajing Subdistrict Office, Bao an District Shenzhen, China

Manufacturer: Luxshare Precision Industry Co.,Ltd.

Manufacturer Address: Floor 2, Block A, Sanyo New Industrial Area, West Haoyi Community, Shajing Subdistrict Office, Bao an District Shenzhen, China

Model: VSN:110125667

FCC ID: 2AYYS-8822K4VTG

TEST ITEM	REFERENCE	RESULTS
Radiated Emission in Restricted Bands	15.247(d), 15.209, FCC 15.205	Pass

Notes: The EUT uses an Integral Antenna which in accordance to Section 15.203 is considered sufficient to comply with the provisions of this section.

2.0 General Description

2.1 Product Description

The equipment under test (EUT) is a onn. 4K Streaming Box with Bluetooth 5.0 (dual-mode) function operating in 2402-2480MHz, 2.4G WIFI function operating in 2412-2462MHz and 5G WIFI function operating in 5150MHz~5250 MHz, 5250MHz~5350MHz, 5470MHz-5725MHz, 5725MHz~5850MHz. The EUT is powered by DC 5V from an adapter. For more detail information pls. refer to the user manual.

2.4G WIFI:

Type of Modulation: BPSK, QPSK, 16QAM, 64QAM for OFDM; CCK, DQPSK, DBPSK for DSSS.

Antenna Type: Integral Antenna

Antenna Gain: ANT1: 2.78dBi, ANT2: 2.61dBi

For electronic filing, the brief circuit description is saved with filename: descri.pdf.

This report bases on the previous report with report number 221125030SZN-003 Dated 05 January 2023. The changes are: replace DDR and eMMC chips from different manufacturers. The chips are replaced pin to pin. Considering RF module has not changed, RF specifications are the same. Spurious emissions have been re-performed.

2.2 Related Submittal(s) Grants

This is an application for certification of a transceiver for the onn. 4K Streaming Box which has 2.4GHz WIFI function.

For the classic Bluetooth function was tested and demonstrated in report 240307044SZN-002.

For the BT BLE function was tested and demonstrated in report 240307044SZN-003.

For the 5GHz WIFI function was tested and demonstrated in report 240307044SZN-005.

2.3 Test Methodology

Both AC mains line-conducted and radiated emission measurements were performed according to the procedures in ANSI C63.10 (2013) and KDB 558074 D01 v05r02. Radiated emission measurement was performed in semi-anechoic chamber and conducted emission measurement was performed in shield room. For radiated emission measurement, preliminary scans were performed in the semi-anechoic chamber only to determine the worst case modes. All radiated tests were performed at an antenna to EUT distance of 3 meters, unless stated otherwise in the **"Justification Section"** of this Application.

2.4 Test Facility

The Semi-anechoic chamber and shielded room used to collect the radiated data and conducted data are **Intertek Testing Services Shenzhen Ltd. Longhua Branch** and located at 101, 201, Building B, No. 308 Wuhe Avenue, Zhangkengjing Community, GuanHu Subdistrict, LongHua District, Shenzhen, P.R. China. This test facility and site measurement data have been fully placed on file with File Number: CN1188.

3.0 System Test Configuration

3.1 Justification

For emissions testing, the equipment under test (EUT) setup to transmit continuously to simplify the measurement methodology. Care was taken to ensure proper power supply voltages during testing. During testing, all cables were manipulated to produce worst case emissions. The EUT was powered by DC 5V from an adapter during the test.

The product may be equipped with different adapter, HDMI Cable and Micro USB Cable which mentioned in section 2.1. All the accessories have been tested, but only the worst data was reported in this report.

The EUT supports 802.11b/g/n-HT20/n-HT40 mode, there are two antennas are used, MIMO is supported by 802.11n-HT20/n-HT40, and all data rate were tested and only the worst case data is shown in the report.

For maximizing emissions, the EUT was rotated through 360°, the EUT was placed on the styrene turntable with 0.8m up to 1GHz and 1.5 m above 1GHz. The antenna height and polarization are varied during the search for maximum signal level. The antenna height is varied from 1 to 4 meters. Radiated emissions are taken at three meters unless the signal level is too low for measurement at that distance. If necessary, a pre-amplifier is used and/or the test is conducted at a closer distance.

All readings are extrapolated back to the equivalent three meter reading using inverse scaling with distance. Analyzer resolution is 100 kHz or greater for frequencies below 1000 MHz. The resolution is 1 MHz or greater for frequencies above 1000 MHz. The spurious emissions more than 20 dB below the permissible value are not reported.

The EUT and transmitting antenna was centered on the turntable.

Radiated emission measurement were performed the lowest radio frequency signal generated in the device which is greater than 9 kHz to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower.

3.2 EUT Exercising Software

The EUT exercise program (provided by client) used during radiated and conducted testing was designed to exercise the various system components in a manner similar to a typical use. The worst case configuration is used in all specified testing.

The parameters of test software setting:

During the test, Channel and power controlling software provided by the applicant was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the application and is going to be fixed on the firmware of the end product.

Test software: CMD

3.3 Special Accessories

Adapter(Model: PS06T050K1000UD, Input: 100-240V~50/60Hz 0.25A Max, Output: 5.0V/1.0A).

HDMI Cable (unshielded, 100cm).

3.4 Measurement Uncertainty

When determining of the test conclusion, the Measurement Uncertainty of test has been considered.

3.5 Equipment Modification

Any modifications installed previous to testing by Luxshare Precision Industry Co.,Ltd. will be incorporated in each production model sold / leased in the United States.

No modifications were installed by Intertek Testing Services Shenzhen Ltd. Longhua Branch.

3.6 Support Equipment List and Description

Description	Manufacturer	Remark
TV (Provided by Intertek)	SONY	150B4CG
HDMI Cable (Provided by applicant)	N/A	unshielded, 100cm
Adaptor (Provided by applicant)	N/A	Model: PS06T050K1000UD, Input: 100-240V~50/60Hz 0.25A Max, Output: DC 5.0V/1.0A
Remote control (Provided by applicant)	N/A	N/A

Applicant: Luxshare Precision Industry Co.,Ltd.

Date of Test: 15 March 2024

Model: VSN:110125667

4.0 Measurement Results

4.1 Radiated Spurious Emission

The data on the following page lists the significant emission frequencies, the limit and the margin of compliance. Numbers with a minus sign are below the limit. Simultaneous transmission was considered during the test, only the worst case data is recorded in this report.

Worst Case Radiated Spurious Emission
at 2390.000MHz
is passed by 3.8dB margin.

For the electronic filing, the worst case radiated emission configuration photographs are saved with filename: radiated photos.pdf.

Applicant: Luxshare Precision Industry Co.,Ltd.

Date of Test: 15 March 2024

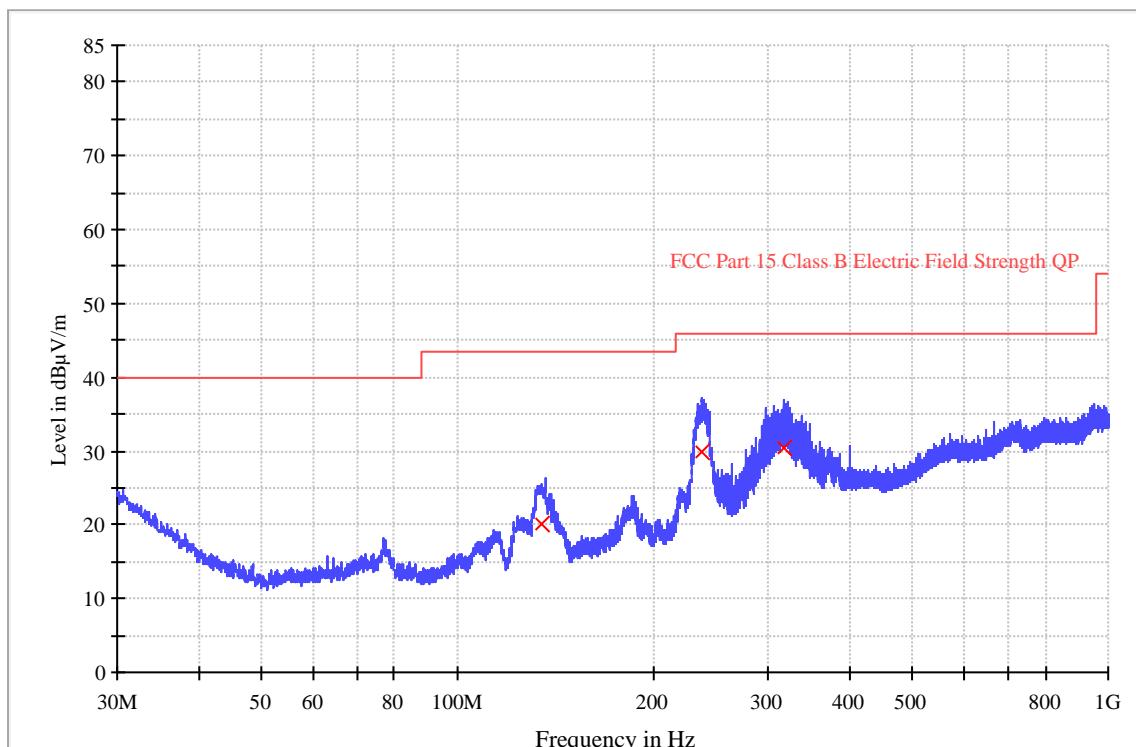
Worst Case Operating Mode:

Model: VSN:110125667

Simultaneous transmission

ANT Polarity: Horizontal

FCC Part 15



Frequency (MHz)	QuasiPeak (dB μ V/m)	Meas. Time (ms)	Bandwidth (kHz)	Polarization	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dB μ V/m)
134.501333	20.1	1000.0	120.000	H	15.0	23.4	43.5
237.062667	30.0	1000.0	120.000	H	18.4	16.0	46.0
318.120000	30.5	1000.0	120.000	H	21.1	15.5	46.0

Remark:

1. Corr. (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB)
2. QuasiPeak (dB μ V/m) = Corr. (dB/m) + Read Level (dB μ V)
3. Margin (dB) = Limit Line(dB μ V/m) – Level (dB μ V/m)

Applicant: Luxshare Precision Industry Co.,Ltd.

Date of Test: 15 March 2024

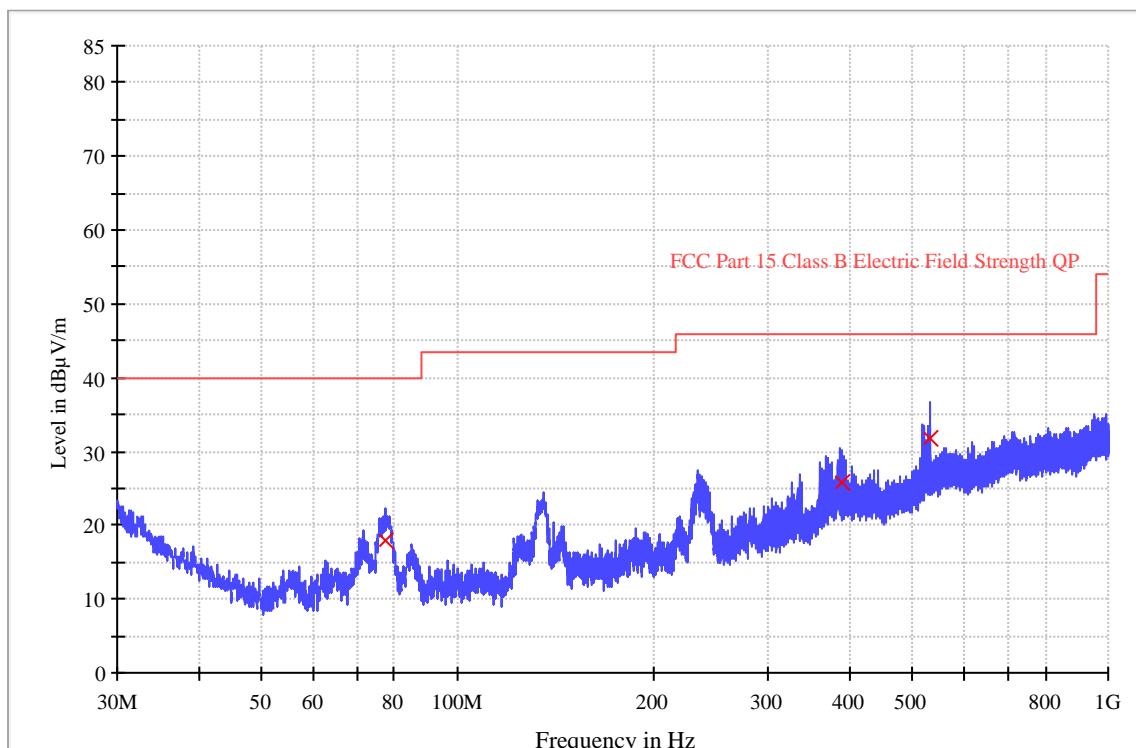
Worst Case Operating Mode:

Model: VSN:110125667

Simultaneous transmission

ANT Polarity: Vertical

FCC Part 15



Frequency (MHz)	QuasiPeak (dB μ V/m)	Meas. Time (ms)	Bandwidth (kHz)	Polarization	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dB μ V/m)
77.271333	17.8	1000.0	120.000	V	13.7	22.2	40.0
389.288000	25.8	1000.0	120.000	V	24.9	20.2	46.0
532.800000	31.7	1000.0	120.000	V	28.2	14.3	46.0

Remark:

1. Corr. (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB)
2. QuasiPeak (dB μ V/m) = Corr. (dB/m) + Read Level (dB μ V)
3. Margin (dB) = Limit Line(dB μ V/m) – Level (dB μ V/m)

Applicant: Luxshare Precision Industry Co.,Ltd.

Date of Test: 15 March 2024

Model: VSN:110125667

Radiated Emissions (above 1GHz)

Worst Case Operating Mode: Transmitting (802.11b-Channel 01-ANT1)

Polarization	Frequency (MHz)	Reading (dB μ V)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dB μ V/m)	Peak Limit at 3m (dB μ V/m)	Margin (dB)
Horizontal	*4824.000	45.1	36.8	33.5	41.8	74.0	-32.2
Horizontal	*2390.000	67.4	36.4	29.1	60.1	74.0	-13.9

Polarization	Frequency (MHz)	Reading (dB μ V)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dB μ V/m)	Average Limit at 3m (dB μ V/m)	Margin (dB)
Horizontal	*4824.000	32.7	36.8	33.5	29.4	54.0	-24.6
Horizontal	*2390.000	55.0	36.4	29.1	47.7	54.0	-6.3

Worst Case Operating Mode: Transmitting (802.11b-Channel 06-ANT1)

Polarization	Frequency (MHz)	Reading (dB μ V)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dB μ V/m)	Peak Limit at 3m (dB μ V/m)	Margin (dB)
Horizontal	*4874.000	45.4	36.7	33.4	42.1	74.0	-31.9
Horizontal	*7311.000	51.6	36.6	35.8	50.8	74.0	-23.2

Polarization	Frequency (MHz)	Reading (dB μ V)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dB μ V/m)	Average Limit at 3m (dB μ V/m)	Margin (dB)
Horizontal	*4874.000	35.4	36.7	33.4	32.1	54.0	-21.9
Horizontal	*7311.000	41.3	36.6	35.8	40.5	54.0	-13.5

Worst Case Operating Mode: Transmitting (802.11b-Channel 11-ANT1)

Polarization	Frequency (MHz)	Reading (dB μ V)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dB μ V/m)	Peak Limit at 3m (dB μ V/m)	Margin (dB)
Horizontal	*4924.000	44.0	36.8	33.3	40.5	74.0	-33.5
Horizontal	*2483.500	65.5	36.5	29.3	58.3	74.0	-15.7

Polarization	Frequency (MHz)	Reading (dB μ V)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dB μ V/m)	Average Limit at 3m (dB μ V/m)	Margin (dB)
Horizontal	*4924.000	40.9	36.8	33.3	37.4	54.0	-16.6
Horizontal	*2483.500	54.7	36.5	29.3	47.5	54.0	-6.5

Worst Case Operating Mode: Transmitting (802.11g-Channel 01-ANT1)

Polarization	Frequency (MHz)	Reading (dB μ V)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dB μ V/m)	Peak Limit at 3m (dB μ V/m)	Margin (dB)
Horizontal	*4824.000	49.8	36.8	33.5	46.5	74.0	-27.5
Horizontal	*2390.000	67.4	36.4	29.1	60.1	74.0	-13.9

Polarization	Frequency (MHz)	Reading (dB μ V)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dB μ V/m)	Average Limit at 3m (dB μ V/m)	Margin (dB)
Horizontal	*4824.000	44.6	36.8	33.5	41.3	54.0	-12.7
Horizontal	*2390.000	55.0	36.4	29.1	47.7	54.0	-6.3

Worst Case Operating Mode: Transmitting (802.11g-Channel 06-ANT1)

Polarization	Frequency (MHz)	Reading (dB μ V)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dB μ V/m)	Peak Limit at 3m (dB μ V/m)	Margin (dB)
Horizontal	*4874.000	46.9	36.7	33.4	43.6	74.0	-30.4
Horizontal	*7311.000	49.5	36.6	35.8	48.7	74.0	-25.3

Polarization	Frequency (MHz)	Reading (dB μ V)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dB μ V/m)	Average Limit at 3m (dB μ V/m)	Margin (dB)
Horizontal	*4874.000	41.4	36.7	33.4	38.1	54.0	-15.9
Horizontal	*7311.000	42.3	36.6	35.8	41.5	54.0	-12.5

Worst Case Operating Mode: Transmitting (802.11g-Channel 11-ANT1)

Polarization	Frequency (MHz)	Reading (dB μ V)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dB μ V/m)	Peak Limit at 3m (dB μ V/m)	Margin (dB)
Horizontal	*4924.000	47.8	36.8	33.3	44.3	74.0	-29.7
Horizontal	*2483.500	65.6	36.5	29.3	58.4	74.0	-15.6

Polarization	Frequency (MHz)	Reading (dB μ V)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dB μ V/m)	Average Limit at 3m (dB μ V/m)	Margin (dB)
Horizontal	*4924.000	44.4	36.8	33.3	40.9	54.0	-13.1
Horizontal	*2483.500	54.7	36.5	29.3	47.5	54.0	-6.5

Worst Case Operating Mode: Transmitting (802.11n20-Channel 01- ANT1)

Polarization	Frequency (MHz)	Reading (dB μ V)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dB μ V/m)	Peak Limit at 3m (dB μ V/m)	Margin (dB)
Horizontal	*4824.000	46.8	36.8	33.5	43.5	74.0	-30.5
Horizontal	*2390.000	68.9	36.4	29.1	61.6	74.0	-12.4

Polarization	Frequency (MHz)	Reading (dB μ V)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dB μ V/m)	Average Limit at 3m (dB μ V/m)	Margin (dB)
Horizontal	*4824.000	39.6	36.8	33.5	36.3	54.0	-17.7
Horizontal	*2388.000	56.0	36.4	29.1	48.7	54.0	-5.3

Worst Case Operating Mode: Transmitting (802.11n20-Channel 06-ANT1)

Polarization	Frequency (MHz)	Reading (dB μ V)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dB μ V/m)	Peak Limit at 3m (dB μ V/m)	Margin (dB)
Horizontal	*4874.000	47.7	36.7	33.4	44.4	74.0	-29.6
Horizontal	*7311.000	50.9	36.6	35.8	50.1	74.0	-23.9

Polarization	Frequency (MHz)	Reading (dB μ V)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dB μ V/m)	Average Limit at 3m (dB μ V/m)	Margin (dB)
Horizontal	*4874.000	41.6	36.7	33.4	38.3	54.0	-15.7
Horizontal	*7311.000	42.3	36.6	35.8	41.5	54.0	-12.5

Worst Case Operating Mode: Transmitting (802.11n20-Channel 11-ANT1)

Polarization	Frequency (MHz)	Reading (dB μ V)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dB μ V/m)	Peak Limit at 3m (dB μ V/m)	Margin (dB)
Horizontal	*4924.000	48.3	36.8	33.3	44.8	74.0	-29.2
Horizontal	*2483.500	69.7	36.5	29.3	62.5	74.0	-11.5

Polarization	Frequency (MHz)	Reading (dB μ V)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dB μ V/m)	Average Limit at 3m (dB μ V/m)	Margin (dB)
Horizontal	*4924.000	38.9	36.8	33.3	35.4	54.0	-18.6
Horizontal	*2483.500	56.1	36.5	29.3	48.9	54.0	-5.1

Worst Case Operating Mode: Transmitting (802.11n40-Channel 03-ANT1)

Polarization	Frequency (MHz)	Reading (dB μ V)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dB μ V/m)	Peak Limit at 3m (dB μ V/m)	Margin (dB)
Horizontal	*4844.000	48.9	36.8	33.5	45.6	74.0	-28.4
Horizontal	*2390.000	71.8	36.4	29.1	64.5	74.0	-9.5

Polarization	Frequency (MHz)	Reading (dB μ V)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dB μ V/m)	Average Limit at 3m (dB μ V/m)	Margin (dB)
Horizontal	*4844.000	41.5	36.8	33.5	38.2	54.0	-15.8
Horizontal	*2390.000	57.5	36.4	29.1	50.2	54.0	-3.8

Worst Case Operating Mode: Transmitting (802.11n40-Channel 06-ANT1)

Polarization	Frequency (MHz)	Reading (dB μ V)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dB μ V/m)	Peak Limit at 3m (dB μ V/m)	Margin (dB)
Horizontal	*4874.000	46.6	36.7	33.4	43.3	74.0	-30.7
Horizontal	*7311.000	51.3	36.6	35.8	50.5	74.0	-23.5

Polarization	Frequency (MHz)	Reading (dB μ V)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dB μ V/m)	Average Limit at 3m (dB μ V/m)	Margin (dB)
Horizontal	*4874.000	41.0	36.7	33.4	37.7	54.0	-16.3
Horizontal	*7311.000	45.1	36.6	35.8	44.3	54.0	-9.7

Worst Case Operating Mode: Transmitting (802.11n40-Channel 09-ANT1)

Polarization	Frequency (MHz)	Reading (dB μ V)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dB μ V/m)	Peak Limit at 3m (dB μ V/m)	Margin (dB)
Horizontal	*4904.000	49.2	36.8	33.3	45.7	74.0	-28.3
Horizontal	*2483.500	66.4	36.5	29.3	59.2	74.0	-14.8

Polarization	Frequency (MHz)	Reading (dB μ V)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dB μ V/m)	Average Limit at 3m (dB μ V/m)	Margin (dB)
Horizontal	*4904.000	40.1	36.8	33.3	36.6	54.0	-17.4
Horizontal	*2483.500	55.8	36.5	29.3	48.6	54.0	-5.4

NOTES: 1. Peak detector is used, RBW=1MHz/VBW=3MHz for peak value. Average detector is used, RBW=1MHz/VBW=10Hz for average value.

2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. Horn antenna used for the emission over 1000MHz.

* Emission within the restricted band meets the requirement of section 15.205. The corresponding limit as per 15.209 is based on Quasi peak limit for frequencies below 1000 MHz and average limit for frequencies over 1000 MHz. The radio frequency emissions above 1GHz also meet corresponding 20dB permitted peak limit with a peak detector function.

5.0 Equipment Photographs

For electronic filing, the photographs are saved with filename: external photos.pdf & internal photos.pdf.

6.0 Product Labeling

For electronic filing, the FCC ID label artwork and location is saved with filename: label.pdf.

7.0 Technical Specifications

For electronic filing, the block diagram and circuit diagram are saved with filename: block.pdf and circuit.pdf respectively.

8.0 Instruction Manual

For electronic filing, a preliminary copy of the Instruction Manual is saved with filename: manual.pdf.

This manual will be provided to the end-user with each unit sold/leased in the United States.

9.0 Confidentiality Request

For electronic filing, the confidentiality request of the tested EUT is saved with filename: request.pdf.

10.0 Discussion of Pulse Desensitization

The determination of pulse desensitivity was made in accordance with Hewlett Packard Application Note 150-2, *Spectrum Analysis ... Pulsed RF*.

Pulse desensitivity is not applicable for this device since the transmitter transmits the RF signal continuously.

11.0 Test Equipment List

Equipment No.	Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Due Date
SZ061-13	BiConiLog Antenna	ETS	3142E	00217919	2021-09-05	2024-09-05
SZ185-03	EMI Receiver	R&S	ESCI	101975	2023-04-27	2024-04-27
SZ061-08	Horn Antenna	ETS	3115	00092346	2021-09-05	2024-09-05
SZ061-06	Active Loop Antenna	Electro-Metrics	EM-6876	217	2021-05-18	2024-05-18
SZ056-03	Spectrum Analyzer	R&S	FSP 30	101148	2023-04-27	2024-04-27
SZ056-08	Signal Analyzer	R&S	FSV 40	101430	2023-12-13	2024-12-13
SZ181-04	Preamplifier	Agilent	8449B	3008A02474	2023-04-27	2024-04-27
SZ188-01	Anechoic Chamber	ETS	RFD-F/A-100	4102	2021-12-12	2024-12-12
SZ062-24	RF Cable	RADIALL	RG 213U	--	2023-07-18	2024-07-18
SZ062-25	RF Cable	RADIALL	0.04-26.5GHz	--	2023-07-18	2024-07-18
SZ062-38	RF Cable	RADIALL	0.04-26.5GHz	--	2023-07-18	2024-07-18
SZ067-04	Notch Filter	Micro-Tronics	BRM50702-02	--	2023-04-27	2024-04-27

***** End of Report *****