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Yueyang Aidaxing Intelligent Technology CO.,LTD

TEST REPORT

SCOPE OF WORK
FCC TESTING– MODEL: L10, L20 LITE, L20, L30, L30 MAX, MICRO-MOBILITY

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Yueyang Aidaxing Intelligent Technology CO.,LTD

Application for Certification

FCC ID: 2BB9JGPLS

LEXGO E-Scooter

Model: L10, L20 LITE, L20, L30, L30 MAX, Micro-Mobility

2.4GHz Transmitter

Report No.: 231120004SZN-001

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 [10-1-23]

Prepared and Checked by:

Karot Huang
Assistant Engineer

Approved by:

Ryan Chen
Project Engineer
Date: 28 April 2024

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Intertek Testing Service Shenzhen Ltd. Longhua Branch
101, 201, Building B, No. 308 Wuhe Avenue, Zhangkengjing Community GuanHu Subdistrict, LongHua District, Shenzhen, People's Republic of China
Tel: (86 755) 8601 6288 Fax: (86 755) 8601 6751

MEASUREMENT/TECHNICAL REPORT

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

Equipment Type: DXX - Part 15 Low Power Communication Device Transmitter

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

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 __X__

If no, assumed Part 15, Subpart C for intentional radiator – the new 47 CFR [10-1-23 Edition] provision.

Report prepared by:

Karot Huang
Intertek Testing Services Shenzhen Ltd. Longhua Branch
101, 201, Building B, No. 308 Wuhe Avenue, Zhangkengjing Community
GuanHu Subdistrict, LongHua District, Shenzhen, People's Republic of China
Tel / Fax: 86-755-8601 6288/86-755-8601 6751

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1.0 Summary of Test Result

Applicant: Yueyang Aidaxing Intelligent Technology CO.,LTD
Applicant Address: 3F, 4F, 5F， Building 9, Yueyang Modern Equipment Manufacturing Industrial Park, Yueyang, China
Manufacturer: Yueyang Aidaxing Intelligent Technology CO.,LTD
Manufacturer Address: 3F, 4F, 5F， Building 9, Yueyang Modern Equipment Manufacturing Industrial Park, Yueyang, China

MODEL: L10, L20 LITE, L20, L30, L30 MAX, Micro-Mobility
FCC ID: 2BB9JGPLS

Test Specification	Reference	Results
Transmitter Radiated Emission Band edge	15.249 &15.209 &15.205	Pass
20dB Bandwidth	15.215(c)	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 LEXGO E-Scooter operating at 2.4G Band. The EUT can be powered by DC 36V with battery. For more detail information pls. refer to the user manual.

Antenna Type: Integral antenna
Modulation Type: GFSK
Antenna Gain: 0dBi (This information is provided by applicant, and the applicant is responsible for the authenticity of the provided information.)

The Model: L10, L20, L20 LITE, L30 MAX, Micro-Mobility are the same as the Model: L30 in hardware aspect. The difference in model number, appearance, power of motor and capacity of battery serves as marketing strategy.

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

2.2 Related Submittal(s) Grants

This is an application for certification of LEXGO E-Scooter.

2.3 Test Methodology

Radiated emission measurements were performed according to the procedures in ANSI C63.10 (2013). Radiated emission measurement was performed in Semi-anechoic chamber. 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. All other measurements were made in accordance with the procedures in part 2 of CFR 47.

2.4 Test Facility

The Semi-Anechoic chamber and shield room used to collect the radiated data is 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 the FCC (Registration Number: CN1188).

3.0 System Test Configuration

3.1 Justification

The system was configured for testing in a typical fashion (as a customer would normally use it), and in the confines as outlined in ANSI C63.10 (2013).

The EUT was powered by DC 36V with battery during the test, only the worst data was reported in this report.

For maximizing emissions below 30 MHz, the EUT was rotated through 360°, the bottom of the loop antenna was placed 1 meter above the ground, and the antenna polarization was changed. For maximizing emissions, the EUT was rotated through 360°, the antenna height was varied from 1 meter to 4 meters above the ground plane, and the antenna polarization was changed. This step by step procedure for maximizing emissions led to the data reported in Section 4.

The EUT and transmitting antenna was centered on the turntable.

The equipment under test (EUT) was configured for testing in a typical fashion (as a customer would normally use it). The EUT was placed on a turn table, which enabled the engineer to maximize emissions through its placement in the three orthogonal axes.

3.2 EUT Exercising Software

There was no special software to exercise the device.

3.3 Special Accessories

No special accessories used.

3.4 Equipment Modification

Any modifications installed previous to testing by Yueyang Aidaxing Intelligent Technology 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.

3.5 Measurement Uncertainty

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

3.6 Support Equipment List and Description

Description	Manufacturer	Model No.
N/A	N/A	N/A

4.0 Emission Results

Data is included worst-case configuration (the configuration which resulted in the highest emission levels).

4.1 Radiated Test Results

A sample calculation, configuration photographs and data tables of the emissions are included.

4.1.1 Field Strength Calculation

The field strength is calculated by adding the reading on the Spectrum Analyzer to the factors associated with preamplifiers (if any), antennas, cables, pulse desensitization and average factors (when specified limit is in average and measurements are made with peak detectors). A sample calculation is included below.

FS = RA + AF + CF - AG + PD + AV

Where FS = Field Strength in dBµV/m
RA = Receiver Amplitude (including preamplifier) in dBµV
CF = Cable Attenuation Factor in dB
AF = Antenna Factor in dB/m
AG = Amplifier Gain in dB
PD = Pulse Desensitization in dB
AV = Average Factor in -dB

In the radiated emission table which follows, the reading shown on the data table may reflect the preamplifier gain. An example of the calculations, where the reading does not reflect the preamplifier gain, follows:

FS = RA + AF + CF - AG + PD + AV

Assume a receiver reading of 62.0 dBµV is obtained. The antenna factor of 7.4 dB/m and cable factor of 1.6 dB is added. The amplifier gain of 29 dB is subtracted. The pulse desensitization factor of the spectrum analyzer was 0 dB, and the resultant average factor was -10 dB. The net field strength for comparison to the appropriate emission limit is 32 dBµV/m. This value in dBµV/m was converted to its corresponding level in µV/m.

RA = 62.0 dBµV
AF = 7.4 dB/m
CF = 1.6 dB
AG = 29.0 dB
PD = 0 dB
AV = -10 dB
FS = 62 + 7.4 + 1.6 - 29 + 0 = 42 dBµV/m

Level in µV/m = Common Antilogarithm [(42 dBµV/m)/20] = 125.9 µV/m

4.1.2 Radiated Emission Configuration Photograph

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

4.1.3 Radiated Emissions

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.

Worst Case Radiated Emission
at
54.480000 MHz

Judgement: Passed by 3.0 dB

TEST PERSONNEL:

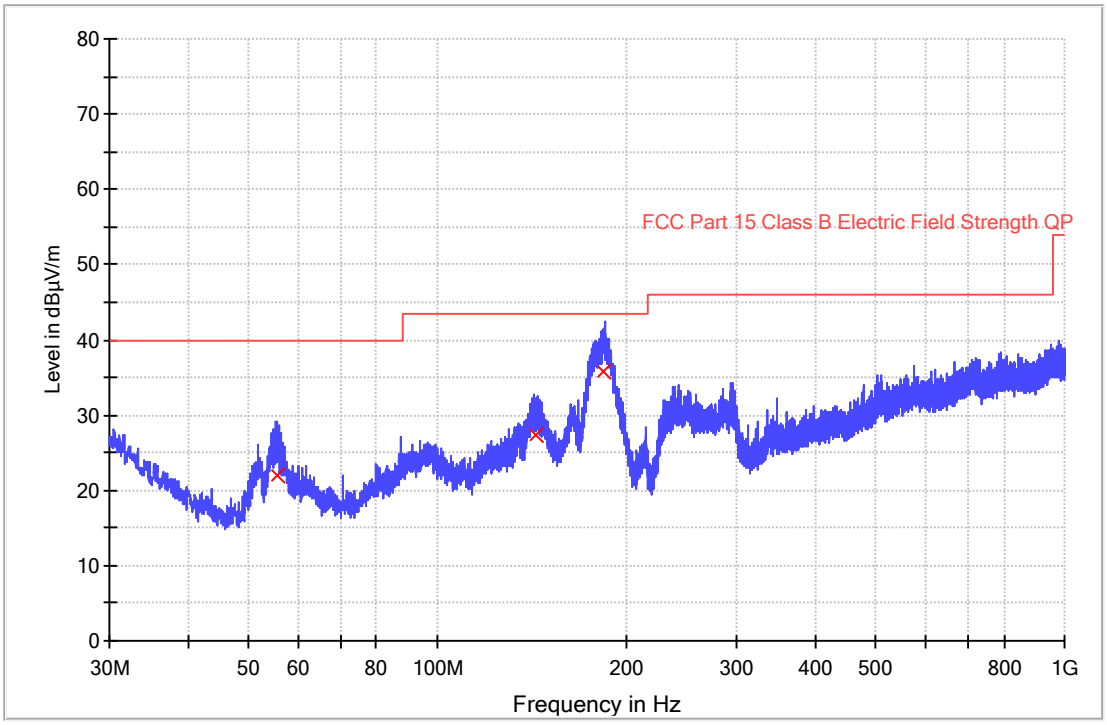
Sign on file

Karot Huang, Assistant Engineer
Typed/Printed Name

January 16, 2024
Date

Applicant: Yueyang Aidaxing Intelligent Technology CO.,LTD
Date of Test: January 16, 2024 Model: L30
Worst Case Operating Mode: Transmitting(2402MHz)

ANT Polarity: Horizontal

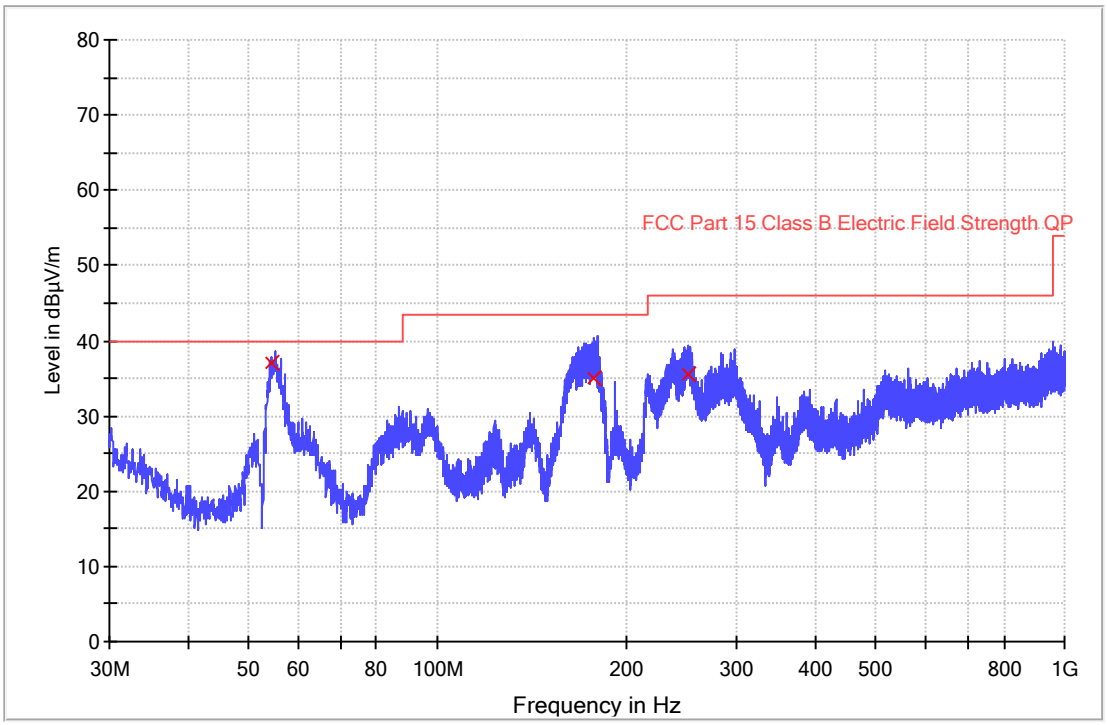


Frequency (MHz)	Quasi Peak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Polarization	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBµV/m)
55.381667	22.0	1000.0	120.000	H	13.1	18.0	40.0
143.651667	27.5	1000.0	120.000	H	15.7	16.0	43.5
184.560000	35.8	1000.0	120.000	H	16.9	7.7	43.5

Remark:
1. Corr. (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB)
2. Quasi Peak (dBµV/m) = Corr. (dB/m) + Read Level (dBµV)
3. Margin (dB) = Limit Line (dBµV/m) – Level (dBµV/m)

Applicant: Yueyang Aidaxing Intelligent Technology CO.,LTD
Date of Test: January 16, 2024 Model: L30
Worst Case Operating Mode: Transmitting(2402MHz)

ANT Polarity: Vertical



Frequency (MHz)	Quasi Peak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Polarization	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBµV/m)
54.480000	37.0	1000.0	120.000	V	13.1	3.0	40.0
177.246000	35.0	1000.0	120.000	V	16.9	8.5	43.5
250.869000	35.5	1000.0	120.000	V	19.4	10.5	46.0

Remark:
1. Corr. (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB)
2. Quasi Peak (dBµV/m) = Corr. (dB/m) + Read Level (dBµV)
3. Margin (dB) = Limit Line (dBµV/m) – Level (dBµV/m)

4.1.4 Transmitter Spurious Emissions (Radiated)

Worst Case Radiated Emission
at
7206.000 MHz

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

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.

Judgement: Passed by 5.6 dB

TEST PERSONNEL:

Sign on file

Karot Huang, Assistant Engineer
Typed/Printed Name

January 16, 2024
Date

Applicant: Yueyang Aidaxing Intelligent Technology CO.,LTD
Date of Test: January 16, 2024 Model: L30
Worst Case Operating Mode: Transmitting

Table 1

Radiated Emissions
(2402 MHz)

Polarization	Frequency (MHz)	Reading (dBµV)	Pre-Amp Gain (dB)	Antenna Factor (dB/m)	Net at 3m (dBµV/m)	Peak Limit at 3m (dBµV/m)	Margin (dB)
Horizontal	2402.000	90.0	36.7	28.1	81.4	114.0	-32.6
Horizontal	4804.000	49.5	36.7	35.5	48.3	74.0	-25.7
Horizontal	7206.000	55.2	36.8	35.6	54.0	74.0	-20.0

Polarization	Frequency (MHz)	Reading (dBµV)	Pre-Amp Gain (dB)	Antenna Factor (dB/m)	Average Factor (-dB)	Net at 3m (dBµV/m)	Average Limit at 3m (dBµV/m)	Margin (dB)
Horizontal	2402.000	90.0	36.7	28.1	5.6	75.8	94.0	-18.2
Horizontal	4804.000	49.5	36.7	35.5	5.6	42.7	54.0	-11.3
Horizontal	7206.000	55.2	36.8	35.6	5.6	48.4	54.0	-5.6

Notes:
1. Peak Detector Data unless otherwise stated.
2. All measurements were made at 3 meter. Harmonic 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 harmonic 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 is used for the emission over 1000MHz.

Applicant: Yueyang Aidaxing Intelligent Technology CO.,LTD
Date of Test: January 16, 2024 Model: L30
Worst Case Operating Mode: Transmitting

Table 2

Radiated Emissions
(2442 MHz)

Polarization	Frequency (MHz)	Reading (dBµV)	Pre-Amp Gain (dB)	Antenna Factor (dB/m)	Net at 3m (dBµV/m)	Peak Limit at 3m (dBµV/m)	Margin (dB)
Horizontal	2442.000	83.9	36.7	28.1	75.3	114.0	-38.7
Horizontal	4884.000	32.5	36.7	35.5	31.3	74.0	-42.7
Horizontal	7326.000	28.5	36.8	35.6	27.3	74.0	-46.7

Polarization	Frequency (MHz)	Reading (dBµV)	Pre-Amp Gain (dB)	Antenna Factor (dB/m)	Average Factor (-dB)	Net at 3m (dBµV/m)	Average Limit at 3m (dBµV/m)	Margin (dB)
Horizontal	2442.000	83.9	36.7	28.1	5.6	69.7	94.0	-24.3
Horizontal	4884.000	32.5	36.7	35.5	5.6	25.7	54.0	-28.3
Horizontal	7326.000	28.5	36.8	35.6	5.6	21.7	54.0	-32.3

Notes:
1. Peak Detector Data unless otherwise stated.
2. All measurements were made at 3 meter. Harmonic 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 harmonic 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 is used for the emission over 1000MHz.

Applicant: Yueyang Aidaxing Intelligent Technology CO.,LTD
Date of Test: January 16, 2024 Model: L30
Worst Case Operating Mode: Transmitting

Table 3

Radiated Emissions
(2483 MHz)

Polarization	Frequency (MHz)	Reading (dBµV)	Pre-Amp Gain (dB)	Antenna Factor (dB/m)	Net at 3m (dBµV/m)	Peak Limit at 3m (dBµV/m)	Margin (dB)
Horizontal	2483.000	84.0	36.7	28.1	75.4	114.0	-38.6
Horizontal	4966.000	48.5	36.7	35.5	47.3	74.0	-26.7
Horizontal	7449.000	53.8	36.8	35.6	52.6	74.0	-21.4

Polarization	Frequency (MHz)	Reading (dBµV)	Pre-Amp Gain (dB)	Antenna Factor (dB/m)	Average Factor (-dB)	Net at 3m (dBµV/m)	Average Limit at 3m (dBµV/m)	Margin (dB)
Horizontal	2483.000	84.0	36.7	28.1	5.6	69.8	94.0	-24.2
Horizontal	4966.000	48.5	36.7	35.5	5.6	41.7	54.0	-12.3
Horizontal	7449.000	53.8	36.8	35.6	5.6	47.0	54.0	-7.0

Notes:

1. Peak Detector Data unless otherwise stated.
2. All measurements were made at 3 meter. Harmonic 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 harmonic 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 is used for the emission over 1000MHz.

5.0 Equipment Photographs

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

6.0 Product Labelling

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

7.0 Technical Specifications

For electronic filing, the block diagram and schematics of the tested EUT 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 Miscellaneous Information

This miscellaneous information includes details of the measured bandedge, 20dB Bandwidth, the test procedure and calculation of factor such as pulse desensitization.

9.1 Band edge Plot

The test plots are attached as below. From the below plots, the field strength of any emissions outside of the specified frequency band are attenuated to the general radiated emission limits in section 15.209. It fulfils the requirement of 15.249(d).

Peak Measurement

Bandedge compliance is determined by applying marker-delta method, i.e (Bandedge Plot).

(i) Lowest frequency channel (2402MHz):

Peak Resultant field strength = Fundamental emissions (peak value) – delta from the bandedge plot

= 81.4 dBµv/m-36.38 dB
= 45.02 dBµv/m

Average Resultant field strength = Fundamental emissions (average value) – delta from the bandedge plot

= 75.8 dBµv/m-36.38 dB
= 39.42 dBµv/m

(ii) Highest frequency channel (2483MHz):

Peak Resultant field strength = Fundamental emissions (peak value) – delta from the bandedge plot

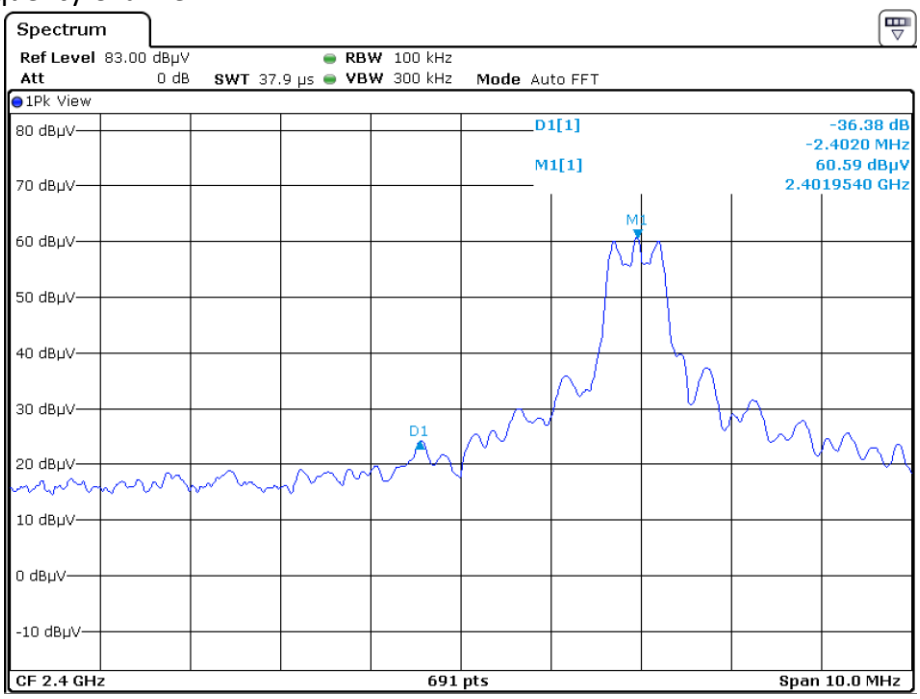
= 75.4 dBµv/m-24.68 dB
= 50.72 dBµv/m

Average Resultant field strength = Fundamental emissions (average value) – delta from the bandedge plot

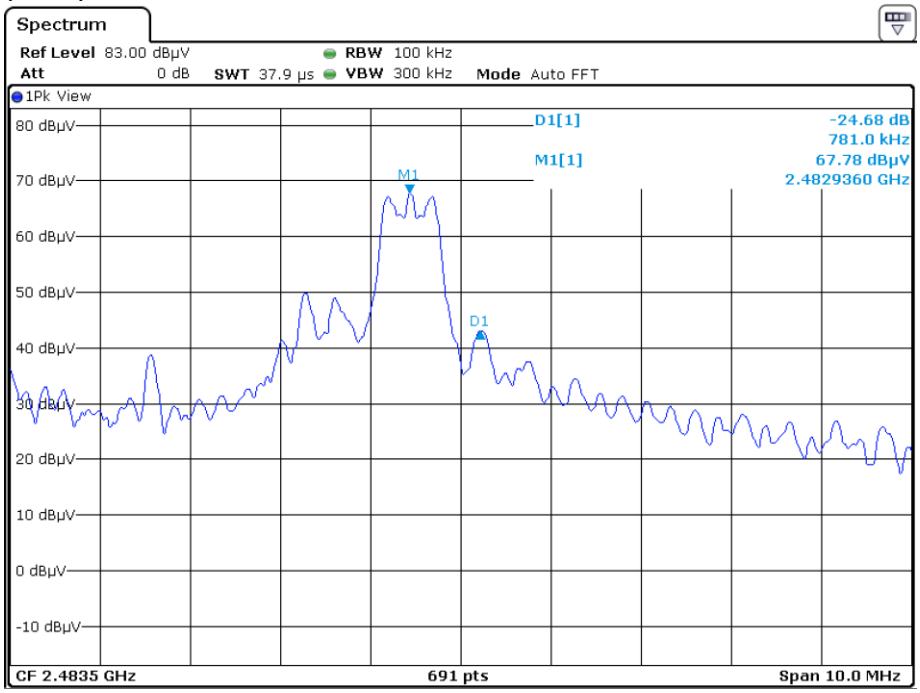
= 69.8 dBµv/m-24.68 dB
= 45.12 dBµv/m

The resultant field strength meets the general radiated emission limit in section 15.209, which does not exceed 74dBµv/m (Peak Limit) and 54dBµv/m (Average Limit).

Lowest frequency Channel

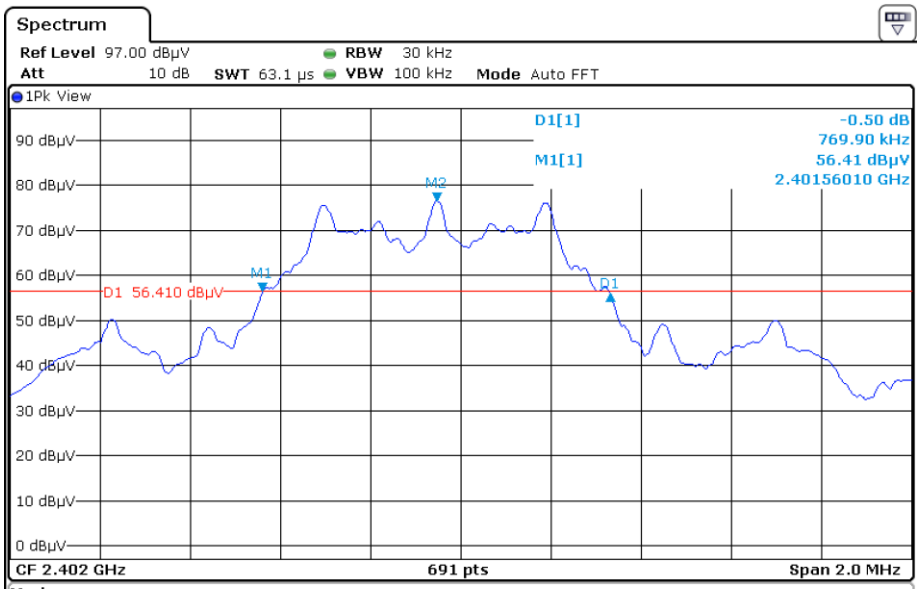


Highest frequency Channel



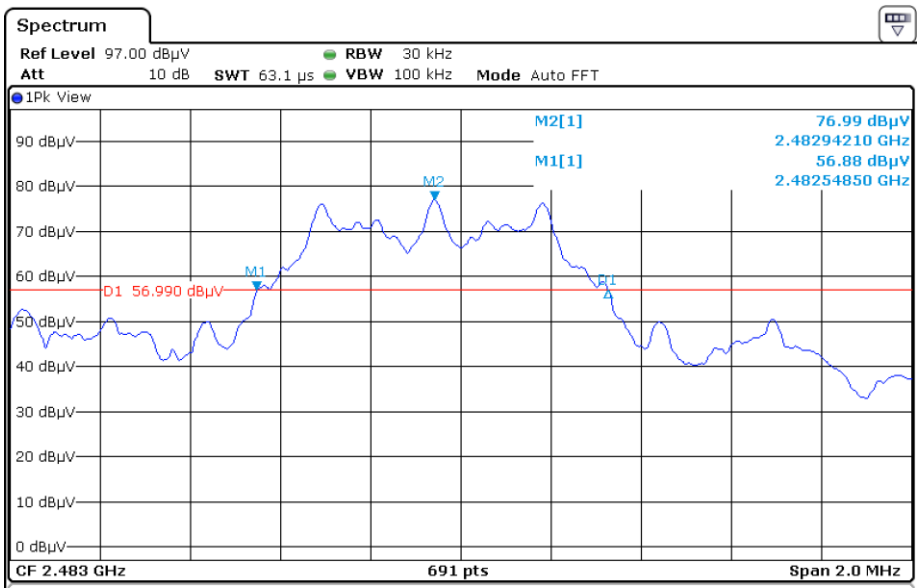
9.2 20dB Bandwidth

Pursuant to FCC part 15 Section 15.215(c), the 20dB bandwidth of the emission was contained within the frequency band designated (mentioned as above) which the EUT operated. The effects, if any, from frequency sweeping, frequency hopping, other modulation techniques and frequency stability over excepted variations in temperature and supply voltage were considered. The test plots are reported as below.



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.4015601 GHz	56.41 dBµV		
D1	M1	1	769.9 kHz	-0.50 dB		
M2		1	2.4019479 GHz	76.41 dBµV		



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.4825485 GHz	56.88 dBµV		
D1	M1	1	778.6 kHz	0.01 dB		
M2		1	2.4829421 GHz	76.99 dBµV		

9.3 Discussion of Pulse Desensitization

Pulse desensitivity is not applicable for this device. The effective period (T_{eff}) is approximately 5.3478ms for a digital "1" bit, as shown in the plots of Section 9.4. With a resolution bandwidth (3 dB) of 100 kHz, the pulse desensitivity factor was 0 dB

9.4 Calculation of Average Factor

Averaging factor in dB = 20 log (duty cycle)

The specification for output field strengths in accordance with the FCC rules specify measurements with an average detector. During testing, a spectrum analyzer incorporating a peak detector was used. Therefore, a reduction factor can be applied to the resultant peak signal level and compared to the limit for measurement instrumentation incorporating an average detector.

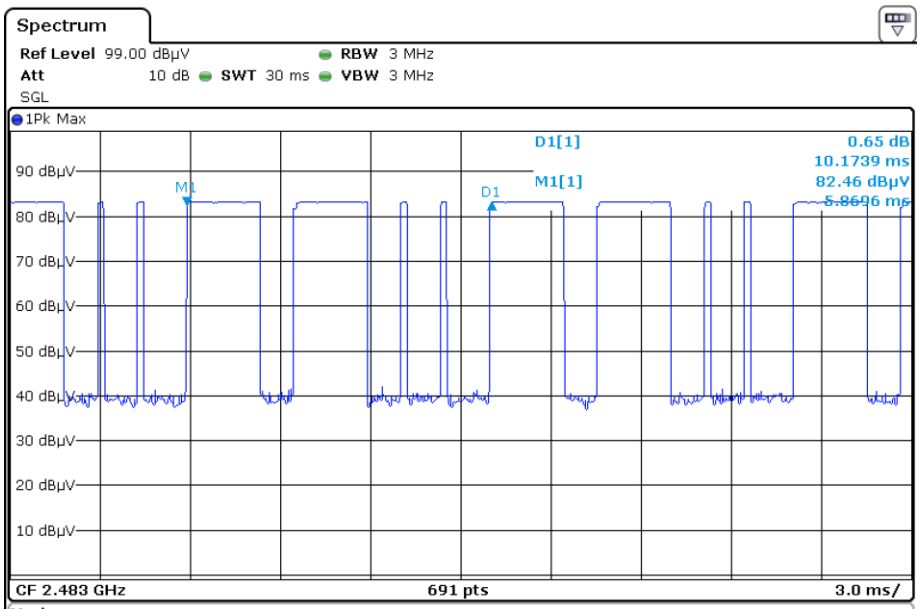
The time period over which the duty cycle is measured is 100 milliseconds, or the repetition cycle, whichever is a shorter time frame. The worst case (highest percentage on) duty cycle is used for the calculation. The duty cycle is measured by placing the spectrum analyzer in zero scan (receiver mode) and linear mode at maximum bandwidth (3 MHz at 3 dB down) and viewing the resulting time domain signal output from the analyzer on a Tektronix oscilloscope. The oscilloscope is used because of its superior time base and triggering facilities.

The duty cycle is simply the on-time divided by the period:

The duration of one cycle = 10.1739ms
Effective period of the cycle = 5.3478ms
DC =5.3478ms / 10.1739ms =0.5256 or 52.56%

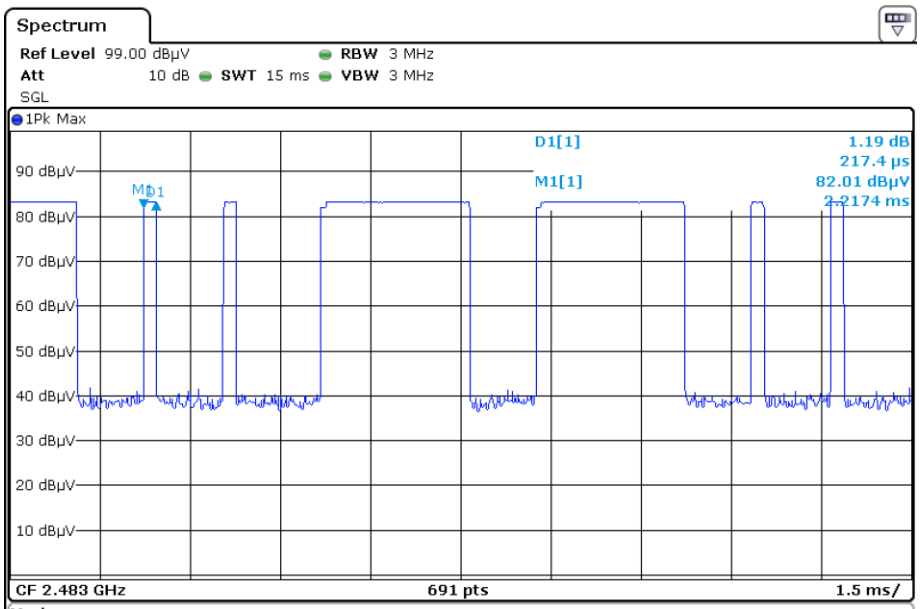
Therefore, the averaging factor is found by $20 \log_{10} (0.5256) = -5.6$dB

The test plots are attached as below.



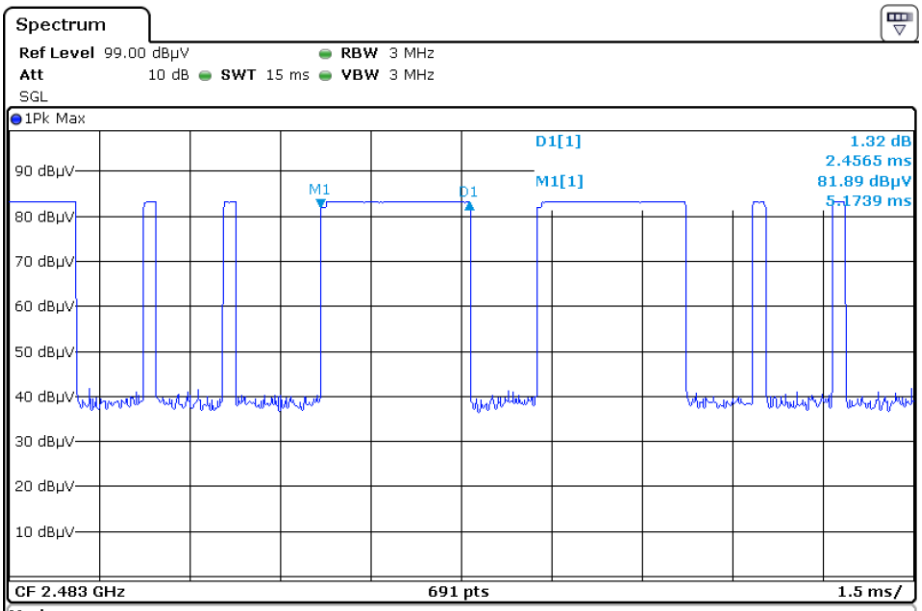
Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.8696 ms	82.46 dBµV		
D1	M1	1	10.1739 ms	0.65 dB		



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.2174 ms	82.01 dBµV		
D1	M1	1	217.4 µs	1.19 dB		



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.1739 ms	81.89 dBµV		
D1	M1	1	2.4565 ms	1.32 dB		

9.5 Emissions Test Procedures

The following is a description of the test procedure used by Intertek Testing Services in the measurements of transmitters operating under Part 15, Subpart C rules.

The test set-up and procedures described below are designed to meet the requirements of ANSI C63.10 - 2013.

The transmitting equipment under test (EUT) is placed on a styrene turntable which is four feet in diameter and approximately 0.8 meter up to 1GHz and 1.5 meter above 1GHz in height above the ground plane. During the radiated emissions test, the turntable is rotated and any cables leaving the EUT are manipulated to find the configuration resulting in maximum emissions. The EUT is adjusted through all three orthogonal axes to obtain maximum emission levels. The antenna height and polarization are varied during the testing to search for maximum signal levels.

Detector function for radiated emissions is in peak mode. Average readings, when required, are taken by measuring the duty cycle of the equipment under test and subtracting the corresponding amount in dB from the measured peak readings. A detailed description for the calculation of the average factor can be found in Section 9.4.

The frequency range scanned is from 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 40 GHz, whichever is lower.

9.5 Emissions Test Procedures (cont'd)

The EUT is warmed up for 15 minutes prior to the test.

AC power to the unit is varied from 85% to 115% nominal and variation in the fundamental emission field strength is recorded. If battery powered, a new, fully charged battery is used.

The IF bandwidth used for measurement of radiated signal strength was 10 kHz for emission below 30 MHz and 120 kHz for emission from 30 MHz to 1000 MHz. Where pulsed transmissions of short enough pulse duration warrant, a greater bandwidth is selected according to the recommendations of Hewlett Packard Application Note 150-2. A discussion of whether pulse desensitivity is applicable to this unit is included in this report (See Section 9.3). Above 1000 MHz, a resolution bandwidth of 1 MHz is used, RBW 3MHz used for fundamental emission.

Transmitter measurements are normally conducted at a measurement distance of three meters. However, to assure low enough noise floor in the restricted bands and above 1 GHz, signals are acquired at a distance of one meter or less. All measurements are extrapolated to three meters using inverse scaling, but those measurements taken at a closer distance are so marked.

10.0 Test Equipment List

Equipment No.	Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Due Date
SZ182-02	RF Power Meter	Anritsu	ML2496A	1302005	2023-04-28	2024-04-28
SZ182-02-01	Power Sensor	Anritsu	MA2411B	1207429	2023-04-28	2024-04-28
SZ056-06	Signal Analyzer	R&S	FSV 40	101101	2023-12-13	2024-12-13
SZ062-10	RF Cable	Bedea	RG 58	--	2023-11-15	2024-11-15
SZ056-08	Signal Analyzer	R&S	FSV 40	101430	2023-12-13	2024-12-13
SZ185-03	EMI Receiver	R&S	ESR7	101975	2023-04-27	2024-04-27
SZ061-06	Active Loop Antenna	Electro-Metrics	EM-6876	217	2021-05-11	2024-05-11
SZ061-12	BiConiLog Antenna	ETS	3142E	00166158	2021-08-04	2024-08-04
SZ061-09	Double-Ridged Waveguide Horn Antenna	ETS	3115	00092347	2022-10-14	2025-10-14
SZ061-15	Double-Ridged Waveguide Horn Antenna	ETS	3116C-PA	00224718	2021-07-06	2024-07-06
SZ181-08	Microwave System Amplifier	Agilent	83017A	MY57280108	2023-07-27	2024-07-27
SZ188-05	Anechoic Chamber	ETS	FACT 3-2.0	CT001880-Q1391	2021-05-25	2024-05-25
SZ062-35	RF Cable	RADIALL	A50-3.5M 3.5M-8M	-	2023-11-14	2024-11-14
SZ062-30	RF Cable	RADIALL	A50-3.5M 3.5M-4.5M	-	2023-11-14	2024-11-14
SZ062-31	RF Cable	RADIALL	A50-3.5M 3.5M-1M	-	2023-11-14	2024-11-14
SZ067-04	Notch Filter	Micro-Tronics	BRM50702-02	015	2023-04-27	2024-04-27