

TruRide Tech LLC

TEST REPORT

SCOPE OF WORK FCC TESTING- MODEL: JMAKO-MGR, MAKO, MAKO(JMAKO-MGR)

REPORT NUMBER 240826035SZN-001

ISSUE DATE 14 NOVEMBER 2024

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TruRide Tech LLC

Application for Certification

FCC ID: 2BG2YMAKO

Jetson Mako Kids Electric Motor Assist Push Car

Model: JMAKO-MGR, MAKO, MAKO(JMAKO-MGR)

2.4GHz Transmitter

Report No.: 240826035SZN-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:

Approved by:

Sign on file

Tenet Cao Assistant Engineer Johnny Wang Project Engineer Date: 14 November 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

Version: 01-November-2017



MEASUREMENT/TECHNICAL REPORT

This report concerns (che	ck one:)	Original Grant	<u>x</u>	Class II Ch	nange _					
Equipment Type: <u>DXX - P</u>	art 15 Low Po	ower Communicat	ion Devic	e Transmitt	<u>er</u>					
Deferred grant requested	per 47 CFR 0				_					
Company Name agrees to notify the Commission by:										
of the intended date of an date.	inouncement	of the product so	that the g	0.0.10	issued	on that				
Transition Rules Request	per 15.37?		Yes		No _	<u>x</u>				
If no, assumed Part 15, Edition] provision.	Subpart C fo	or intentional rad	iator – tl	ne new 47	CFR [1	10-1-23				
Report prepared by:										
	101, 201, E Community People's Re	ting Services Sher Building B, No. 3 GuanHu Subdist public of China S-755-8601 6288/8	808 Wuh trict, Lon	e Avenue, gHua Distri	Zhangk	0, 0				



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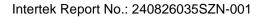
1.0 <u>Summary of Test Result</u>

Applicant: TruRide Tech LLC Applicant Address: 794 School House Road New Castle, DE 19720 United States Manufacturer: TruRide Tech LLC Manufacturer Address: 794 School House Road New Castle, DE 19720 United States

MODEL: JMAKO-MGR, MAKO, KAKO(JMAKO-MGR) FCC ID: 2BG2YMAKO

Test Specification	Reference	Results
Transmitter Radiated Emission	15.249 &15.209 &15.205	Pass
Band edge		
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 Jetson Mako Kids Electric Motor Assist Push Car operating at 2.4G Band. The EUT can be powered by DC 3V (2 x 1.5V AAA batteries). For more detail information pls. refer to the user manual.

The Model: MAKO, KAKO(JMAKO-MGR) are the same as the Model: JMAKO-MGR in hardware aspect. The difference in model number serves as marketing strategy.

Antenna Type: Integral antenna Modulation Type: GFSK Antenna Gain: -4.3dBi (This information is provided by applicant, and the applicant is responsible for the authenticity of the provided information.)

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 controller unit for the Toys Car, and the corresponding car unit which associated with this EUT is subjected to FCC SDOC.

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 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, People's Republic of 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 3V (2 x 1.5V AAA batteries) 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

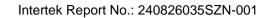
No special accessories used.

3.4 Equipment Modification Any modifications installed previous to testing by TruRide Tech LLC 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

ntertek

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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 $FS = Field Strength in dB\mu V/m$ $RA = Receiver Amplitude (including preamplifier) in dB\mu V$ CF = Cable Attenuation Factor in dB AF = Antenna Factor in dB/m AG = Amplifier Gain in dB PD = Pulse Desensitization in dBAV = 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 dB μ V 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 dB μ V/m. This value in dB μ V/m was converted to its corresponding level in μ V/m.

RA = $62.0 \text{ dB}\mu\text{V}$ AF = 7.4 dB/m CF = 1.6 dB AG = 29.0 dB PD = 0 dB AV = -10 dB FS = $62 + 7.4 + 1.6 - 29 + 0 = 42 \text{ dB}\mu\text{V/m}$

Level in μ V/m = Common Antilogarithm [(42 dB μ V/m)/20] = 125.9 μ V/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 889.178 MHz

Judgement: Passed by 21.7 dB

TEST PERSONNEL:

Sign on file

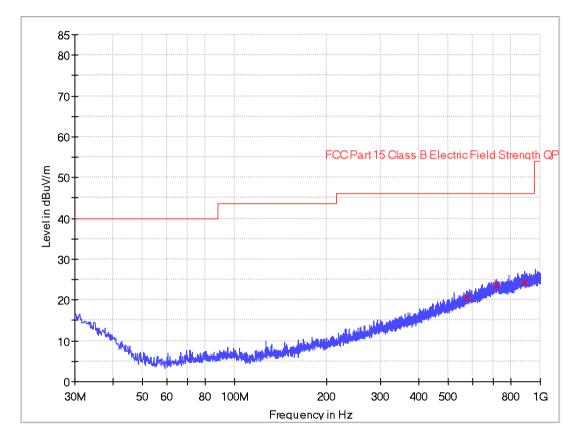
Tenet Cao, Assistant Engineer Typed/Printed Name

17 October, 2024 Date



Model: JMAKO-MGR Transmitting(2440MHz)

ANT Polarity: Horizontal



FCC Part 15

Frequency (MHz)	Quasi Peak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBµV/m)
573.078750	20.5	1000.0	120.000	0.0	Н	21.4	25.5	46.0
716.638750	23.6	1000.0	120.000	0.0	Н	24.0	22.4	46.0
889.177500	24.3	1000.0	120.000	0.0	Н	25.3	21.7	46.0

Remark:

1. Corr. (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB)

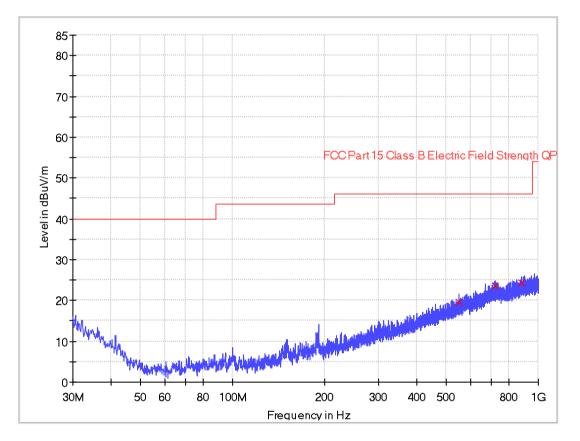
2. Quasi Peak (dBµV/m) = Corr. (dB/m) + Read Level (dBµV)

3. Margin (dB) = Limit Line (dBµV/m) – Level (dBµV/m)



Model: JMAKO-MGR Transmitting(2440MHz)

ANT Polarity: Vertical



FCC Part 15

Frequency (MHz)	Quasi Peak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBµV/m
551.738750	19.7	1000.0	120.000	0.0	V	21.0	26.3	46.0
721.488750	23.6	1000.0	120.000	0.0	V	24.1	22.4	46.0
881.417500	24.3	1000.0	120.000	0.0	V	25.3	21.7	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 (dB μ V/m) Level (dB μ V/m)



4.1.4 Transmitter Spurious Emissions (Radiated)

Worst Case Radiated Emission at 7221.000 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 21.1 dB

TEST PERSONNEL:

Sign on file

Tenet Cao, Assistant Engineer Typed/Printed Name

17 October, 2024 Date



Model: JMAKO-MGR Transmitting

Table 1

Radiated Emissions

	(2407 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	2407.000	99.4	36.7	28.1	90.8	114.0	-23.2				
Horizontal	4814.000	47.1	36.7	35.5	45.9	74.0	-28.1				
Horizontal	7221.000	54.1	36.8	35.6	52.9	74.0	-21.1				

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	2407.000	99.4	36.7	28.1	20.6	70.2	94.0	-23.8
Horizontal	4814.000	47.1	36.7	35.5	20.6	25.3	54.0	-28.7
Horizontal	7221.000	54.1	36.8	35.6	20.6	32.3	54.0	-21.7

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.



Model: JMAKO-MGR Transmitting

Table 2

Radiated Emissions

	(2440 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	2440.000	98.1	36.7	28.1	89.5	114.0	-24.5				
Horizontal	4880.000	47.6	36.7	35.5	46.4	74.0	-27.6				
Horizontal	7320.000	53.5	36.8	35.6	52.3	74.0	-21.7				

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	2440.000	98.1	36.7	28.1	20.6	68.9	94.0	-25.1
Horizontal	4880.000	47.6	36.7	35.5	20.6	25.8	54.0	-28.2
Horizontal	7320.000	53.5	36.8	35.6	20.6	31.7	54.0	-22.3

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.



Model: JMAKO-MGR Transmitting

Table 3

Radiated Emissions

	(24/3 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	2473.000	97.2	36.7	28.1	88.6	114.0	-25.4				
Horizontal	4946.000	47.6	36.7	35.5	46.4	74.0	-27.6				
Horizontal	7419.000	52.1	36.8	35.6	50.9	74.0	-23.1				

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	2473.000	97.2	36.7	28.1	20.6	68.0	94.0	-26.0
Horizontal	4946.000	47.6	36.7	35.5	20.6	25.8	54.0	-28.2
Horizontal	7419.000	52.1	36.8	35.6	20.6	30.3	54.0	-23.7

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 <u>Technical Specifications</u>

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 Bandedge Plot

The test plots are attached as below. From the plot, 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

Restricted-band band-edge tests shall be performed as radiated measurements, i.e (Band-edge Plot).

(i) Lower channel 2407.000 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	2400.000	68.4	36.7	28.1	59.8	74.0	-14.2

Polarization	Frequency (MHz)	Reading (dBµV)	Pre- Amp Gain (dB)	Antenna Factor (dB/m)	Net at 3m (dBµV/m)	Average Limit at 3m (dBµV/m	Margin (dB)
Horizontal	2400.000	55.2	36.7	28.1	46.6	54.0	-7.4

(ii) Upper channel 2473.000 MHz:

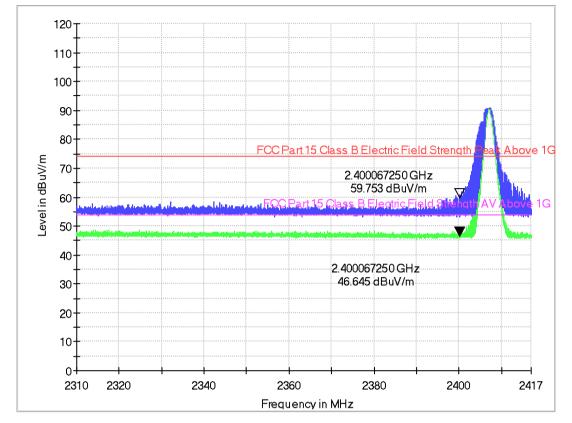
Polarizatio	n Frequency (MHz)	Reading (dBµV)	Pre- Amp Gain (dB)	Antenna Factor (dB/m)	Net at 3m (dBµV/m)	Peak Limit at 3m (dBµV/m)	Margin (dB)
Horizonta	l 2483.500	68.0	36.8	29.1	60.3	74.0	-13.7

Polarization	Frequency (MHz)	Reading (dBµV)	Pre- Amp Gain (dB)	Antenna Factor (dB/m)	Net at 3m (dBµV/m)	Average Limit at 3m (dBµV/m	Margin (dB)
Horizontal	2483.500	55.2	36.8	29.1	47.5	54.0	-6.5

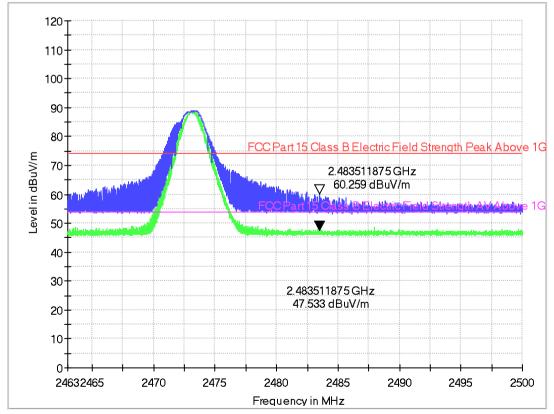
The resultant field strength meets the general radiated emission limit in section 15.209, which does not exceed 74dB μ v/m (Peak Limit) and 54dB μ v/m (Average Limit).



Lowest frequency Channel



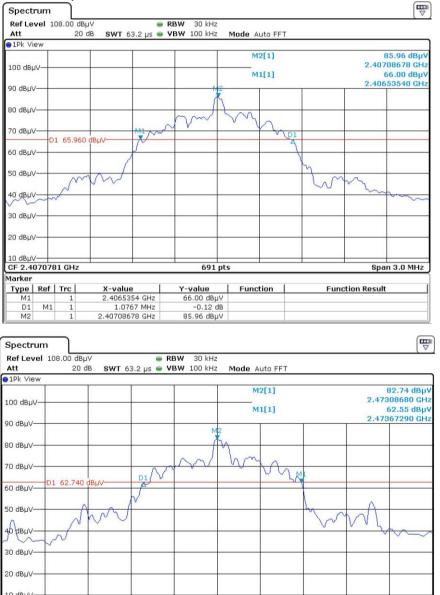
Highest frequency Channel





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.



10 dBµ\	/					
CF 2.4	73086	8 GHz		Span 3.0 MHz		
Marker						
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.4736729 GHz	62.55 dBµV		
D1	M1	1	-1.0984 MHz	-0.04 dB		
M2		1	2.4730868 GHz	82.74 dBµV		



9.3 Discussion of Pulse Desensitization

Pulse desensitivity is not applicable for this device. The effective period (T_{eff}) is approximately 0.3768ms 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 = 4.029ms Effective period of the cycle = 0.3768ms DC =0.3768ms / 4.029ms =0.0935 or 9.35%

Therefore, the averaging factor is found by $20 \log_{10} (0.0935) = -20.6 dB$

The test plots are attached as below.



	108.00 dBµ	V	e RB	W 3 MHz					1	[₩
Att			LO ms 🖷 VB							
SGL										
∋1Pk Max										
						D1[1]			-0.07	
100 dBµV-						-			4.0290	
						M1[1]		8	2.78 d	
						I.	Ĩ	i i	1.1159	m
90 dBµV-	11									_
V					D1					
30 dBµV					1					_
70 dвµV—										_
~										
50 dBµV										
RICERNAN	with	white have have	hardellinge	moundar	r h	mangerthang	white have	mp mounday	ال ال	M
				•	1.1					0
ю авµV—										
30 dBµV										
20 dBµV										
10 dBµV—										_
CF 2.47308	68 GHz			691	pts				1.0 m	is/
										G
	_									
-										
Spectrum Ref Level 1	.08.00 dBµ'	v	e RB	W 3 MHz						[7
Ref Level 1 Att			● RB .0 ms ● VB							[7
RefLevel 1 Att SGL										[4
Ref Level 1										
RefLevel 1 Att SGL						M1[1]		ł	32.70 d	IBL
Ref Level 1 Att BGL 1Pk Max								{	5.1449	IBµ Ə n
Ref Level 1 Att BGL 1Pk Max						M1[1]		8	5.1449 0.0	BI 2 0
Ref Level 1 Att SGL 1Pk Max 00 dBµV								8	5.1449	B P n 2 c
Ref Level 1 Att SGL 1Pk Max 00 dBµV				W 3 MHz	M1			8	5.1449 0.0	BI 2 0
Ref Level 1 Att SGL 1Pk Max 00 dBµV				W 3 MHz	M1 D1			8	5.1449 0.0) n 2 d
RefLevel 1 Att SGL				W 3 MHz	M1 D1			8	5.1449 0.0	B 2 c

80 dBµV											
70 dBµV										-	
60 dBµV											
ARRIGE WANTER	widty	nduthana	Invidentitien for	Mannahltr	d -	VIRMUN	worthermy	up where a	nplanantar	, N	-
40 dBµV											
30 dBµV											
20 dBµV											
10 dBµV											
CF 2.4730868	GHz	I		691	pts		•		•	1.0	ms/



Spectrum			Ę
Att 20 dB 👄 SWT 100 ms 👄 VB	3W 3 MHz 3W 3 MHz		
SGL			
100 dBµV			
90 dBµV			
80 dB _L V			
70 dвµv			
60 dBμV			
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	addlanng bardlann bard	your have fully good have the
40 dBµV			
30 dBµV			
20 dBµV			
10 dBµV CF 2.4730868 GHz	691 pts		10.0 ms,
Marker	051 pt3		10.0 113



9.5 Emissions Test Procedures

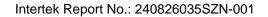
The following is a description of the test procedure used by Intertek Testing Services in the measurements of transmitters operating under Part 15, Subpart C rules.

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

Equipme nt No.	Equipment	Manufacture r	Model No.	Serial No.	Cal. Date	Due Date
SZ061-13	BiConiLog Antenna	ETS	3142E	00166158	2022-07-13	2025-07-13
SZ185-03	EMI Receiver	R&S	ESR7	101975	2024-04-23	2025-04-23
SZ061-09	Horn Antenna	ETS	3115	00092346	2022-10-14	2025-10-14
SZ061-06	Active Loop Antenna	Electro- Metrics	EM-6876	217	2024-05-05	2027-05-05
SZ061-15	Double- Ridged Waveguide Horn Antenna	ETS	3116C-PA	00224718	2024-06-14	2027-06-14
SZ056-06	Spectrum Analyzer	R&S	FSV40	101101	2023-12-13	2024-12-13
SZ181-04	Preamplifier	Agilent	8449B	3008A0247 4	2024-04-22	2025-04-22
SZ188-01	Anechoic Chamber	ETS	RFD-F/A- 100	4102	2021-12-12	2024-12-12
SZ062-02	RF Cable	RADIALL	RG 213U		2024-05-10	2024-11-10
SZ062-05	RF Cable	RADIALL	0.04- 26.5GHz		2024-05-10	2024-11-10
SZ062-12	RF Cable	RADIALL	0.04- 26.5GHz		2024-05-10	2024-11-10
SZ067-04	Notch Filter	Micro-Tronics	BRM5070 2-02		2024-04-23	2025-04-23