

# Test Report

**Report No.:** MTi230720010-01E1  
**Date of issue:** 2023-11-10  
**Applicant:** Shenzhen Lanjiang Technology Co., Ltd  
**Product:** 3 IN 1 Wireless Charging Station  
**Model(s):** EZ31, GF01, GF02, GF03, GF04, GF05, GF06, GF07,  
GF08, GF09, GF10  
**FCC ID:** 2BCFB-GF01

Shenzhen Microtest Co., Ltd.

<http://www.mtitest.com>

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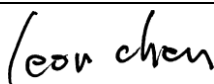

## Instructions

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<b>Test Result Certification</b>	
<b>Applicant:</b>	Shenzhen Lanjiang Technology Co., Ltd
<b>Address:</b>	Room 1212, No. 51 Pingxin North Road, Shangmugu Community, Pinghu Street, Longgang District, Shenzhen, CN
<b>Manufacturer:</b>	Shenzhen Xiandu Technology Co., Ltd
<b>Address:</b>	East of 5th Floor, Building 1, Shangliao Jinyuda Industrial Park, Shajing Town, Shenzhen City
<b>Product description</b>	
<b>Product name:</b>	3 IN 1 Wireless Charging Station
<b>Trade mark:</b>	N/A
<b>Model name:</b>	EZ31
<b>Series Model:</b>	GF01, GF02,GF03,GF04,GF05,GF06,GF07,GF08,GF09,GF10
<b>Standards:</b>	FCC 47 CFR Part 15 Subpart C
<b>Test method:</b>	ANSI C63.10-2013
<b>Date of Test</b>	
<b>Date of test:</b>	2023-08-08 to 2023-10-26
<b>Test result:</b>	Pass

<b>Test Engineer</b>	:	
		(Maleah Deng)
<b>Reviewed By</b>	:	
		(Leon Chen)
<b>Approved By</b>	:	
		(Tom Xue)

## 1 General Description

### 1.1 Description of the EUT

Product name:	3 IN 1 Wireless Charging Station
Model name:	EZ31
Series Model:	GF01, GF02, GF03, GF04, GF05, GF06, GF07, GF08, GF09, GF10
Model difference:	All the models are the same circuit and module, except the model name.
Electrical rating:	Input: DC 5V2A, 9V2A, 12V1.5A Wireless Output: Phone(Transmitter 1): 5W,7.5W,10W,15W Earphone(Transmitter 2): 5W Watch(Transmitter 3): 3.5W
Accessories:	N/A
Hardware version:	V1.0
Software version:	V1.0
Test sample(s) number:	MTi230720010-01S1001
<b>RF specification</b>	
Operating frequency range:	Transmitter 1 (Phone): 115 kHz – 205 kHz Transmitter 2 (Earphone): 115 kHz – 205 kHz Transmitter 3 (Watch): 300 kHz -350KHz
Modulation type:	ASK
Antenna(s) type:	Coil Antenna

### 1.2 Description of test modes

No.	Emission test modes
Mode1	Wireless output(5W)+Earphone(5W)+Watch(3.5W)
Mode2	Wireless output(7.5W)+Earphone(5W)+Watch(3.5W)
Mode3	Wireless output(5W)+Earphone(5W)
Mode4	Wireless output(7.5W)+Earphone(5W)
Mode5	Wireless output(10W)+Earphone(5W)
Mode6	Wireless output(5W)+Watch(3.5W)
Mode7	Wireless output(7.5W)+Watch(3.5W)
Mode8	Wireless output(10W)+Watch(3.5W)
Mode9	Earphone(5W)+Watch(3.5W)
Mode10	Wireless output(5W)
Mode11	Wireless output(7.5W)
Mode12	Wireless output(10W)
Mode13	Wireless output(15W)
Mode14	Watch(3.5W)
Mode15	Earphone(5W)
Mode16	stand by

### 1.3 Environmental Conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature:	15°C ~ 35°C
Humidity:	20% RH ~ 75% RH
Atmospheric pressure:	98 kPa ~ 101 kPa

### 1.4 Description of support units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Support equipment list			
Description	Model	Serial No.	Manufacturer
HUAWEI QUICK CHARGE	HW-200200ZP1	JN67LSN7N03451	HUAWEI
iPhone	iPhone 13	MGYJOHNQHL	Apple
Air Pods	AirPods pro	/	Apple
Watch	iWatch S7	/	Apple
Support cable lists			
Description	Length (m)	From	To
/	/	/	/

### 1.5 Measurement uncertainty

Measurement	Uncertainty
Conducted emissions (AMN 150kHz~30MHz)	3.1dB
Occupied channel bandwidth	±3 %
Radiated spurious emissions (9kHz~30MHz)	4.3dB
Radiated spurious emissions (30MHz~1GHz)	4.7dB
Temperature	±1 °C
Humidity	± 5 %

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

## 2 Summary of Test Result

No.	Item	Standard	Requirement	Result
1	Antenna requirement	47 CFR Part 15C	Part 15.203	Pass
2	Conducted Emission at AC power line	47 CFR Part 15C	47 CFR 15.207(a)	Pass
3	20dB Occupied Bandwidth	47 CFR Part 15C	47 CFR 15.215(c)	Pass
4	Emissions in frequency bands (below 30MHz)	47 CFR Part 15C	47 CFR 15.209	Pass
5	Emissions in frequency bands (30MHz - 1GHz)	47 CFR Part 15C	47 CFR 15.209	Pass

### 3 Test Facilities and accreditations

#### 3.1 Test laboratory

Test laboratory:	Shenzhen Microtest Co., Ltd.
Test site location:	101, No.7, Zone 2, Xinxing Industrial Park, Fuhai Avenue, Xinhe Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China
Telephone:	(86-755)88850135
Fax:	(86-755)88850136
CNAS Registration No.:	CNAS L5868
FCC Registration No.:	448573
IC Registration No.:	21760
CABID:	CN0093



#### 4 List of test equipment

No.	Equipment	Manufacturer	Model	Serial No.	Cal. date	Cal. Due
Conducted Emission at AC power line						
1	EMI Test Receiver	Rohde&schwarz	ESCI3	101368	2023-04-26	2024-04-25
2	Artificial mains network	Schwarzbeck	NSLK 8127	183	2023-05-05	2024-05-04
3	Artificial Mains Network	Rohde & Schwarz	ESH2-Z5	100263	2023-06-03	2024-06-02
20dB Occupied Bandwidth						
1	Wideband Radio Communication Tester	Rohde&schwarz	CMW500	149155	2023-04-26	2024-04-25
2	ESG Series Analog Ssignal Generator	Agilent	E4421B	GB40051240	2023-04-25	2024-04-24
3	PXA Signal Analyzer	Agilent	N9030A	MY51350296	2023-04-25	2024-04-24
4	Synthesized Sweeper	Agilent	83752A	3610A01957	2023-04-25	2024-04-24
5	MXA Signal Analyzer	Agilent	N9020A	MY50143483	2023-04-26	2024-04-25
6	RF Control Unit	Tonscend	JS0806-1	19D8060152	2023-04-26	2024-04-25
7	Band Reject Filter Group	Tonscend	JS0806-F	19D8060160	2023-05-05	2024-05-04
8	ESG Vector Signal Generator	Agilent	N5182A	MY50143762	2023-04-25	2024-04-24
9	DC Power Supply	Agilent	E3632A	MY40027695	2023-05-05	2024-05-04
Emissions in frequency bands (below 30MHz)						
1	EMI Test Receiver	Rohde&schwarz	ESCI7	101166	2023-04-26	2024-04-25
2	Active Loop Antenna	Schwarzbeck	FMZB 1519 B	00066	2023-06-11	2025-06-10
3	Amplifier	Hewlett-Packard	8447F	3113A06184	2023-06-26	2024-06-25
Emissions in frequency bands (30MHz - 1GHz)						
1	EMI Test Receiver	Rohde&schwarz	ESCI7	101166	2023-04-26	2024-04-25
2	TRILOG Broadband Antenna	schwarabeck	VULB 9163	9163-1338	2023-06-11	2025-06-10
3	Amplifier	Hewlett-Packard	8447F	3113A06184	2023-06-26	2024-06-25
4	Multi-device Controller	TuoPu	TPMDC	/	2023-05-04	2024-05-03

## 5 Evaluation Results (Evaluation)

### 5.1 Antenna requirement

Test Requirement:	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.
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## 6 Radio Spectrum Matter Test Results (RF)

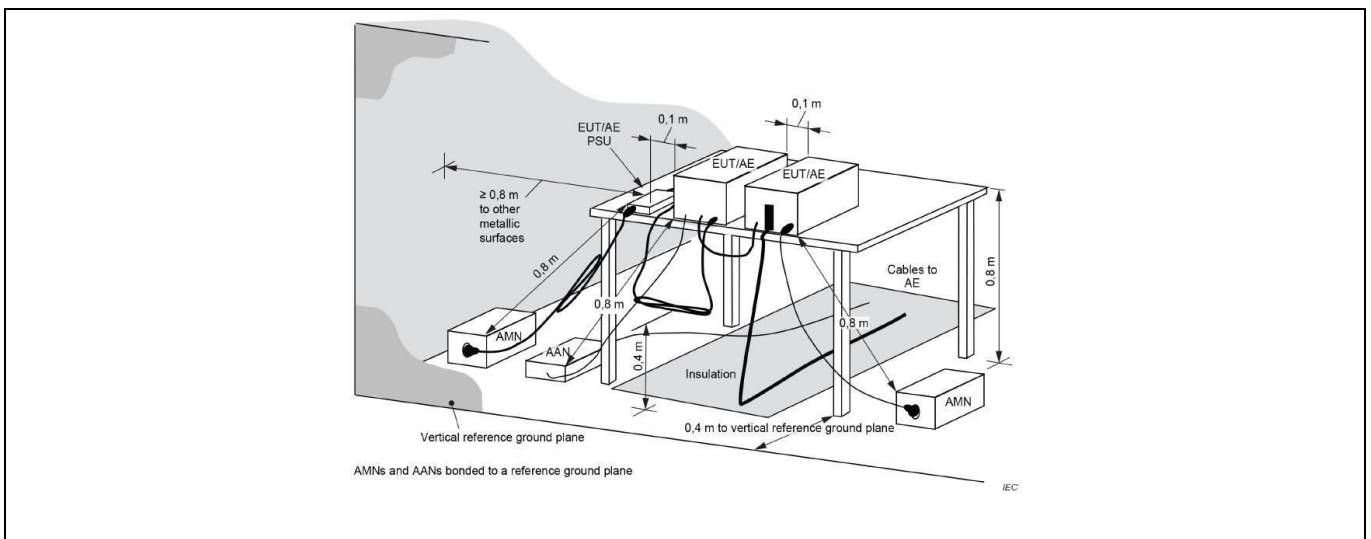
### 6.1 Conducted Emission at AC power line

Test Requirement:	Except as shown in paragraphs (b)and (c)of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 $\mu$ H/50 ohms line impedance stabilization network (LISN).		
Test Limit:	Frequency of emission (MHz)	Conducted limit (dB $\mu$ V)	
		Quasi-peak	Average
	0.15-0.5	66 to 56*	56 to 46*
	0.5-5	56	46
	5-30	60	50
	*Decreases with the logarithm of the frequency.		
Test Method:	Refer to ANSI C63.10-2013 section 6.2, standard test method for ac power-line conducted emissions from unlicensed wireless devices		

#### 6.1.1 E.U.T. Operation:

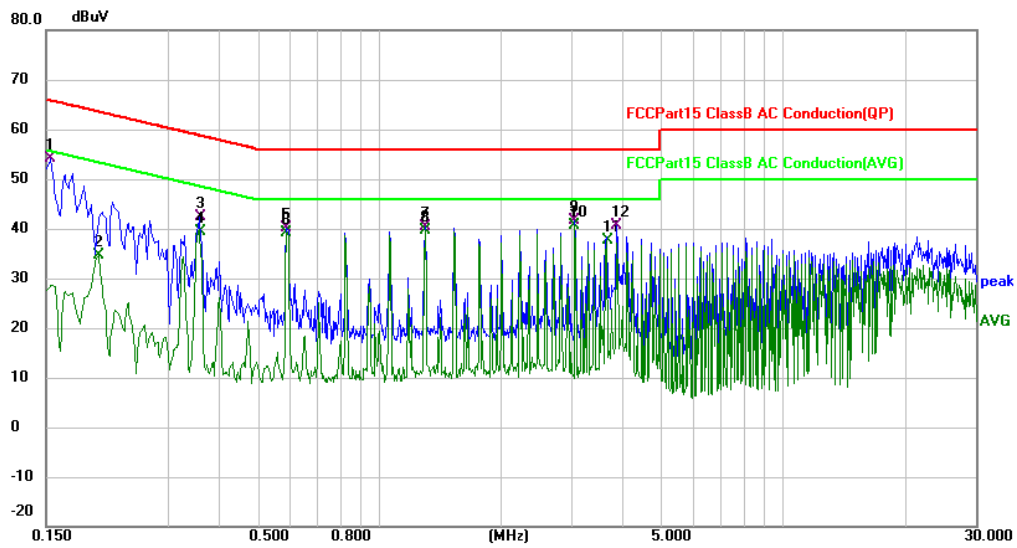
Operating Environment:					
Temperature:	28.2 °C	Humidity:	74.5 %	Atmospheric Pressure:	99 kPa
Test mode:	Mode1, Mode2, Mode3, Mode4, Mode5, Mode6, Mode7, Mode8, Mode9, Mode10, Mode11, Mode12, Mode13, Mode14, Mode15, Mode16				

#### 6.1.2 Test Setup Diagram:



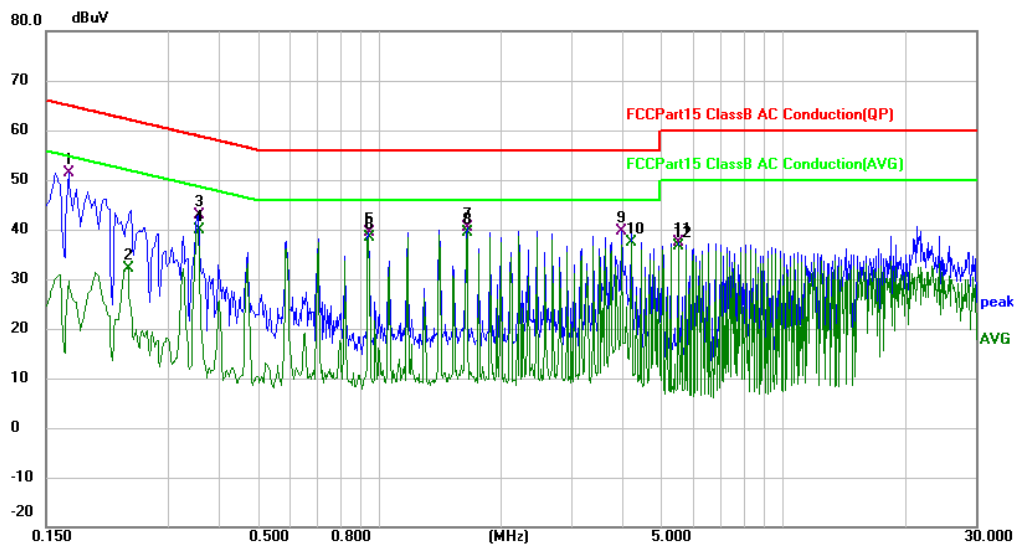
**6.1.3 Test Data:**

Mode1 / Line: Line



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1539	43.80	10.28	54.08	65.79	-11.71	QP	
2		0.2020	23.99	10.60	34.59	53.53	-18.94	AVG	
3		0.3580	31.54	10.96	42.50	58.77	-16.27	QP	
4		0.3580	28.52	10.96	39.48	48.77	-9.29	AVG	
5		0.5899	28.63	11.53	40.16	56.00	-15.84	QP	
6		0.5899	27.52	11.53	39.05	46.00	-6.95	AVG	
7		1.2980	27.40	12.97	40.37	56.00	-15.63	QP	
8		1.2980	26.65	12.97	39.62	46.00	-6.38	AVG	
9		3.0700	31.39	10.29	41.68	56.00	-14.32	QP	
10	*	3.0700	30.30	10.29	40.59	46.00	-5.41	AVG	
11		3.6620	27.25	10.28	37.53	46.00	-8.47	AVG	
12		3.8980	30.42	10.28	40.70	56.00	-15.30	QP	

Mode1 / Line: Neutral



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.1700	41.11	10.28	51.39	64.96	-13.57	QP	
2		0.2380	21.35	10.75	32.10	52.17	-20.07	AVG	
3		0.3540	31.81	10.99	42.80	58.87	-16.07	QP	
4		0.3540	28.86	10.99	39.85	48.87	-9.02	AVG	
5		0.9420	27.05	12.29	39.34	56.00	-16.66	QP	
6		0.9420	26.20	12.29	38.49	46.00	-7.51	AVG	
7		1.6460	26.82	13.44	40.26	56.00	-15.74	QP	
8	*	1.6460	26.06	13.44	39.50	46.00	-6.50	AVG	
9		3.9940	29.42	10.27	39.69	56.00	-16.31	QP	
10		4.2300	27.14	10.26	37.40	46.00	-8.60	AVG	
11		5.5220	27.06	10.27	37.33	60.00	-22.67	QP	
12		5.5220	26.30	10.27	36.57	50.00	-13.43	AVG	

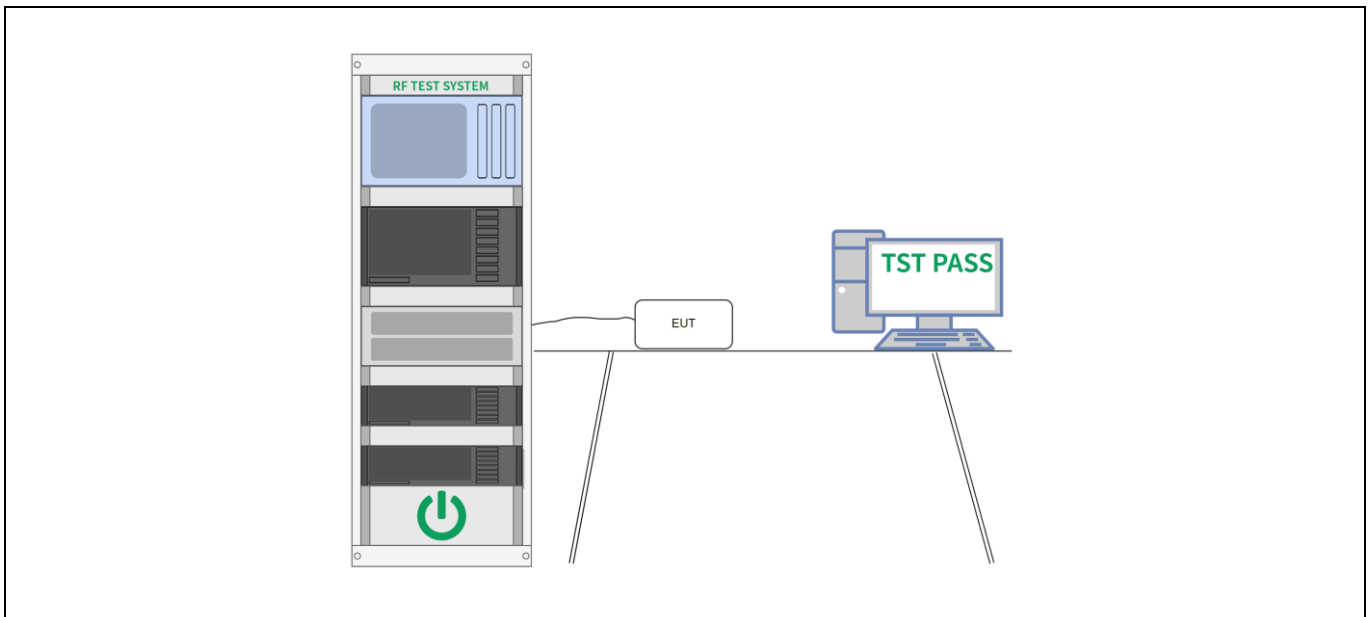
## 6.2 20dB Occupied Bandwidth

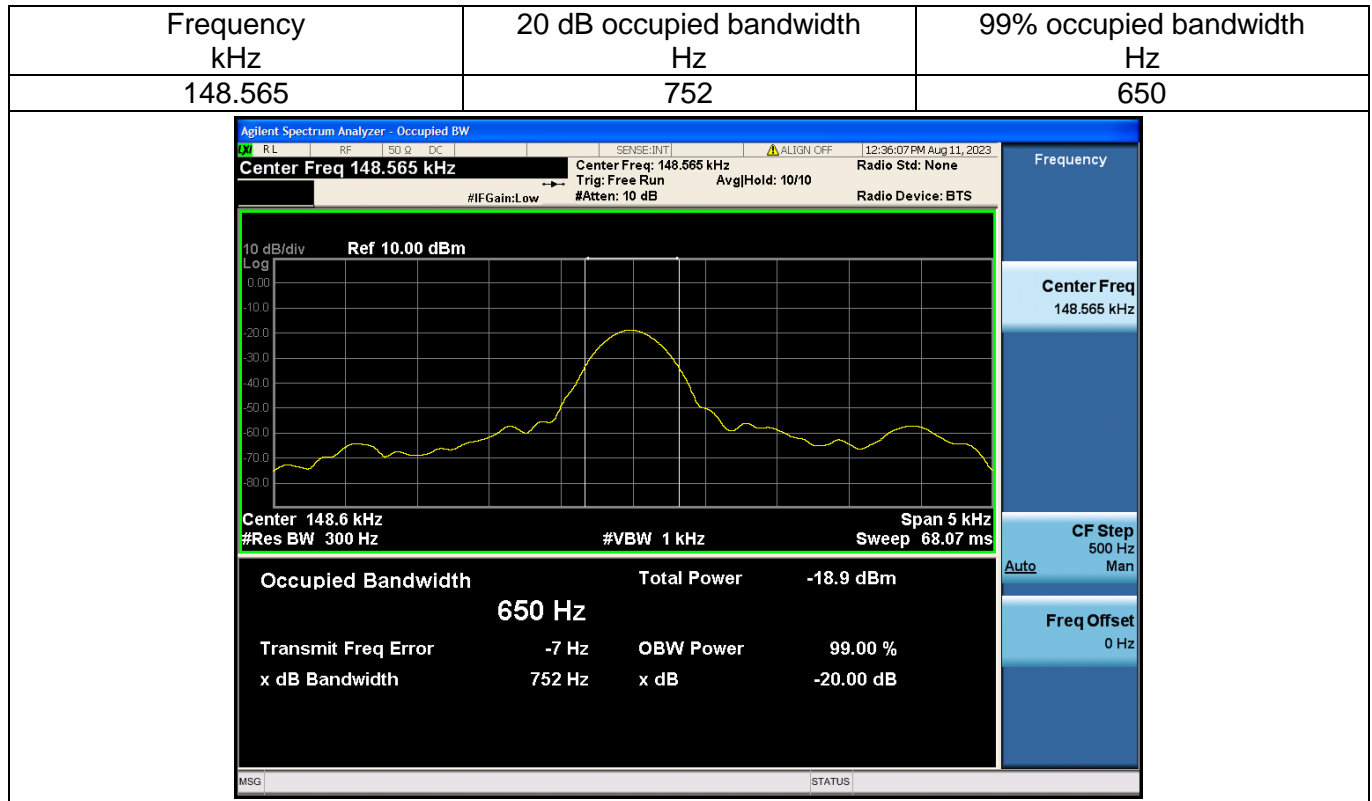
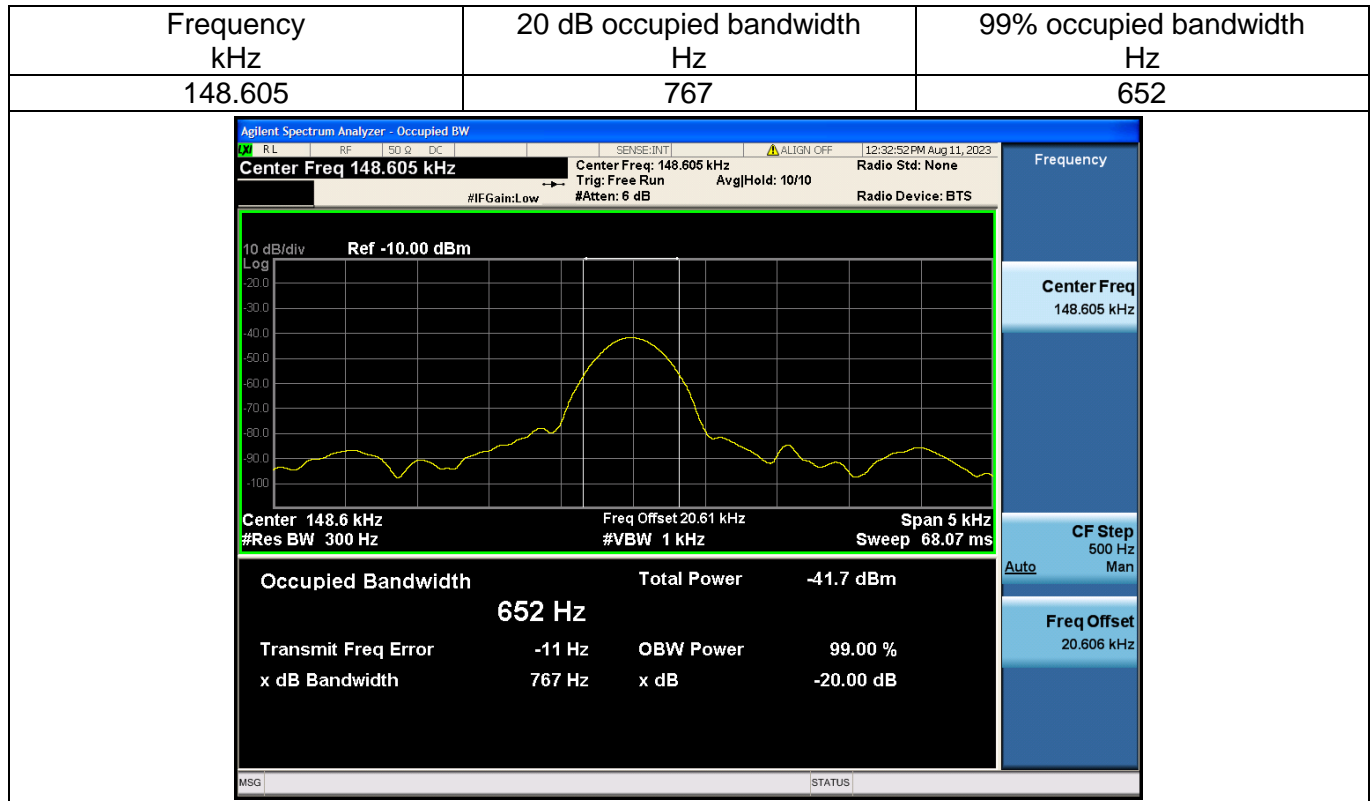
Test Requirement:	Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.
Test Limit:	Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.
Test Method:	Occupied bandwidth—relative measurement procedure
Procedure:	<p>a) The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the EMI receiver or spectrum analyzer shall be between two times and five times the OBW.</p> <p>b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW and video bandwidth (VBW) shall be approximately three times RBW, unless otherwise specified by the applicable requirement.</p> <p>c) Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than <math>[10 \log (OBW/RBW)]</math> below the reference level. Specific guidance is given in 4.1.5.2.</p> <p>d) Steps a) through c) might require iteration to adjust within the specified tolerances.</p> <p>e) The dynamic range of the instrument at the selected RBW shall be more than 10 dB below the target “-xx dB down” requirement; that is, if the requirement calls for measuring the -20 dB OBW, the instrument noise floor at the selected RBW shall be at least 30 dB below the reference value.</p> <p>f) Set detection mode to peak and trace mode to max hold.</p> <p>g) Determine the reference value: Set the EUT to transmit an unmodulated carrier or modulated signal, as applicable. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace (this is the reference value).</p> <p>h) Determine the “-xx dB down amplitude” using <math>[(\text{reference value}) - xx]</math>. Alternatively, this calculation may be made by using the marker-delta function of the instrument.</p> <p>i) If the reference value is determined by an unmodulated carrier, then turn the EUT modulation ON, and either clear the existing trace or start a new trace on the spectrum analyzer and allow the new trace to stabilize. Otherwise, the trace from step g) shall be used for step j).</p> <p>j) Place two markers, one at the lowest frequency and the other at the highest frequency of the envelope of the spectral display, such that each marker is at or slightly below the “-xx dB down amplitude” determined in step h). If a marker is below this “-xx dB down amplitude” value, then it shall be as close as possible to this value. The occupied bandwidth is the frequency difference between the two markers. Alternatively, set a marker at the lowest frequency of the envelope of the spectral display, such that the marker is at or slightly below the “-xx dB down amplitude” determined in step h). Reset the marker-delta function and move the marker to the other side of the emission until the delta marker amplitude is at the same level as the reference marker amplitude. The marker-delta frequency reading at this point is the specified</p>

	emission bandwidth. k) The occupied bandwidth shall be reported by providing plot(s) of the measuring instrument display; the plot axes and the scale units per division shall be clearly labeled. Tabular data may be reported in addition to the plot(s).
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**6.2.1 E.U.T. Operation:**

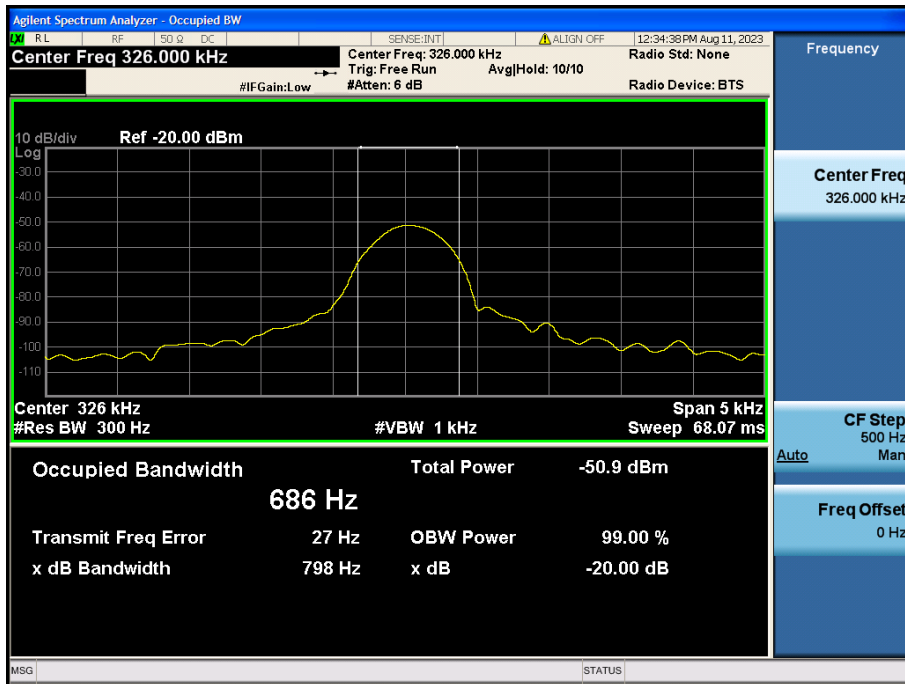
Operating Environment:					
Temperature:	20.6 °C	Humidity:	72.7 %	Atmospheric Pressure:	100 kPa
Test mode:	Mode1, Mode2, Mode3, Mode4, Mode5, Mode6, Mode7, Mode8, Mode9, Mode10, Mode11, Mode12, Mode13, Mode14, Mode15, Mode16				

**6.2.2 Test Setup Diagram:**


**6.2.3 Test Data:**
**Transmitter 1:**

**Transmitter 2:**


**Transmitter 3:**

Frequency kHz	20 dB occupied bandwidth Hz	99% occupied bandwidth Hz
326	798	686



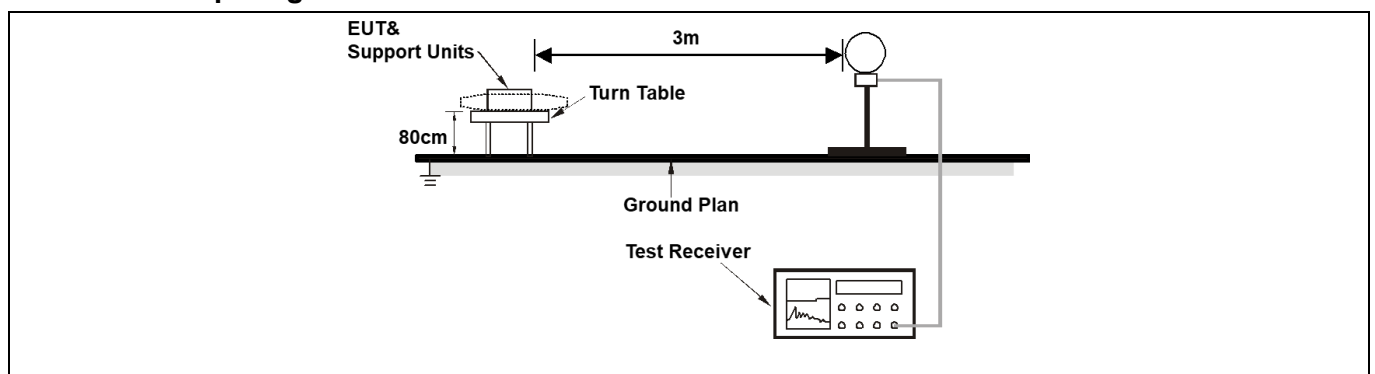


**6.3 Emissions in frequency bands (below 30MHz)**

Test Requirement:	47 CFR 15.209		
Test Limit:	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
	0.009-0.490	2400/F(kHz)	300
	0.490-1.705	24000/F(kHz)	30
	1.705-30.0	30	30
	30-88	100 **	3
	88-216	150 **	3
	216-960	200 **	3
	Above 960	500	3
<p>** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241.</p> <p>As shown in § 15.35(b), for frequencies above 1000 MHz, the field strength limits in paragraphs (a) and (b) of this section are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For point-to-point operation under paragraph (b) of this section, the peak field strength shall not exceed 2500 millivolts/meter at 3 meters along the antenna azimuth.</p>			
Test Method:	Radiated emissions tests		
Procedure:	ANSI C63.10-2013 section 6.6.4		

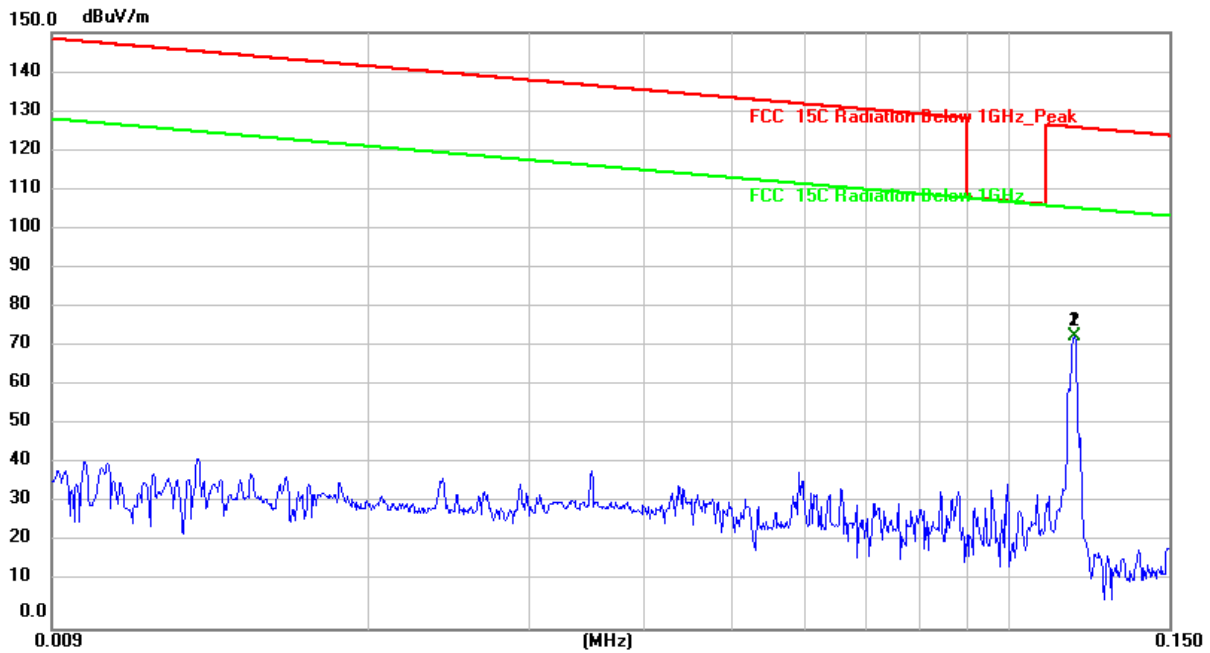
**6.3.1 E.U.T. Operation:**

Operating Environment:					
Temperature:	26.6 °C	Humidity:	28.9 %	Atmospheric Pressure:	98.1 kPa
Test mode:	Mode1, Mode2, Mode3, Mode4, Mode5, Mode6, Mode7, Mode8, Mode9, Mode10, Mode11, Mode12, Mode13, Mode14, Mode15, Mode16				

**6.3.2 Test Setup Diagram:**


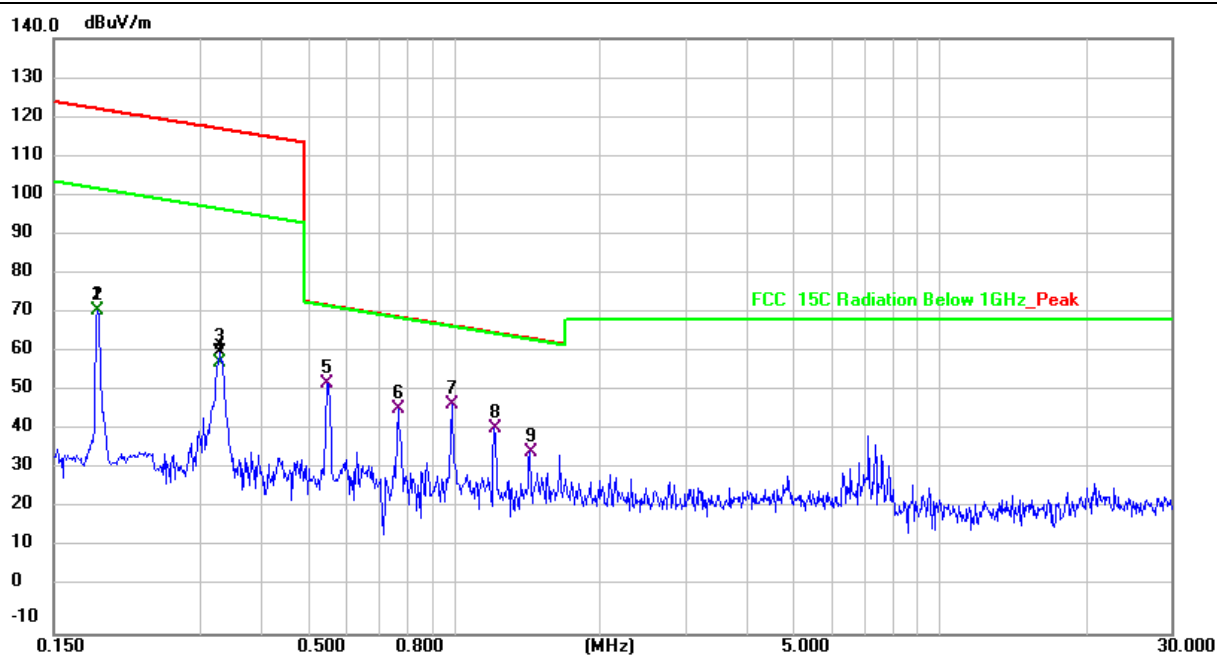
**6.3.3 Test Data:**

Mode2 / Polarization: Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	0.1180	53.37	20.23	73.60	126.19	-52.59	peak
2 *	0.1180	53.37	20.23	73.60	106.19	-32.59	AVG

Mode2 / Polarization: Vertical



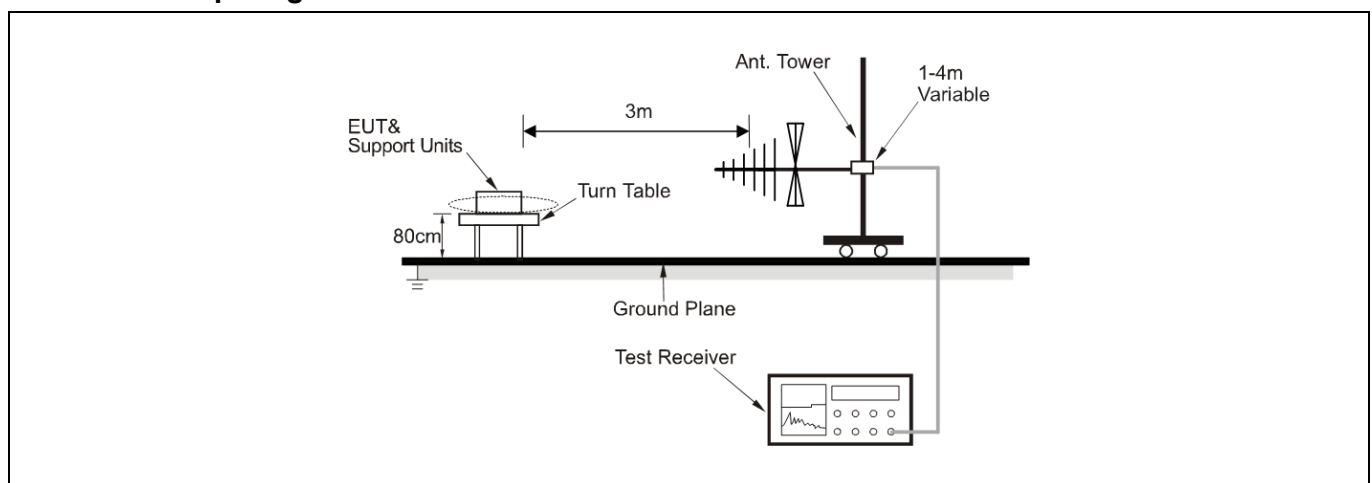
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	0.1844	51.35	20.28	71.63	122.30	-50.67	peak
2	0.1844	51.35	20.28	71.63	102.30	-30.67	AVG
3	0.3286	40.58	20.32	60.90	117.28	-56.38	peak
4	0.3286	38.04	20.32	58.36	97.28	-38.92	AVG
5 *	0.5493	32.95	20.39	53.34	72.81	-19.47	QP
6	0.7669	26.34	20.48	46.82	69.92	-23.10	QP
7	0.9891	27.28	20.57	47.85	67.72	-19.87	QP
8	1.2098	21.21	20.59	41.80	65.97	-24.17	QP
9	1.4333	15.45	20.60	36.05	64.50	-28.45	QP

**6.4 Emissions in frequency bands (30MHz - 1GHz)**

Test Requirement:	47 CFR 15.209		
Test Limit:	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
	0.009-0.490	2400/F(kHz)	300
	0.490-1.705	24000/F(kHz)	30
	1.705-30.0	30	30
	30-88	100 **	3
	88-216	150 **	3
	216-960	200 **	3
	Above 960	500	3
<p>** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241.</p> <p>As shown in § 15.35(b), for frequencies above 1000 MHz, the field strength limits in paragraphs (a) and (b) of this section are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For point-to-point operation under paragraph (b) of this section, the peak field strength shall not exceed 2500 millivolts/meter at 3 meters along the antenna azimuth.</p>			
Test Method:	Radiated emissions tests		
Procedure:	ANSI C63.10-2013 section 6.6.4		

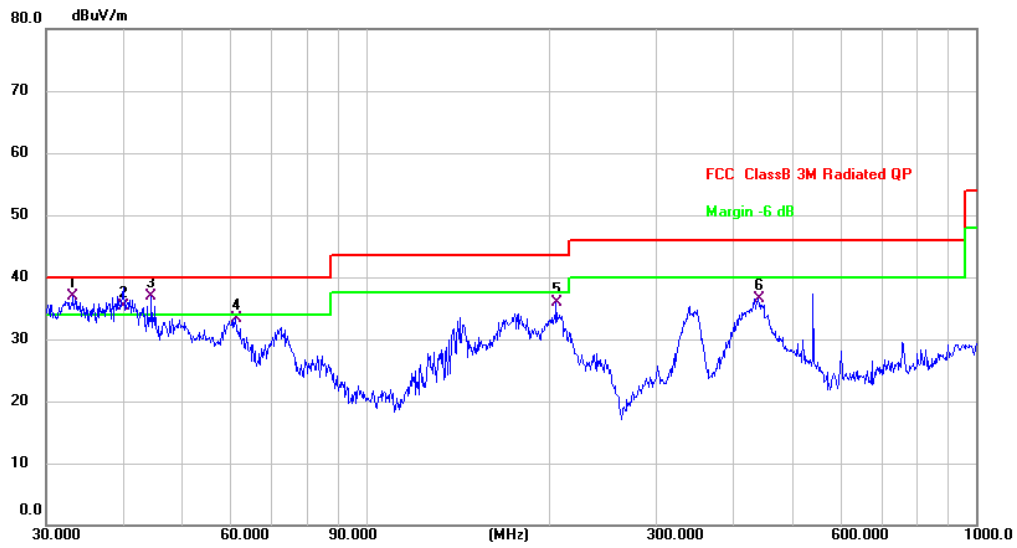
**6.4.1 E.U.T. Operation:**

Operating Environment:					
Temperature:	26.6 °C	Humidity:	28.9 %	Atmospheric Pressure:	98.1 kPa
Test mode:	Mode1, Mode2, Mode3, Mode4, Mode5, Mode6, Mode7, Mode8, Mode9, Mode10, Mode11, Mode12, Mode13, Mode14, Mode15, Mode16				

**6.4.2 Test Setup Diagram:**


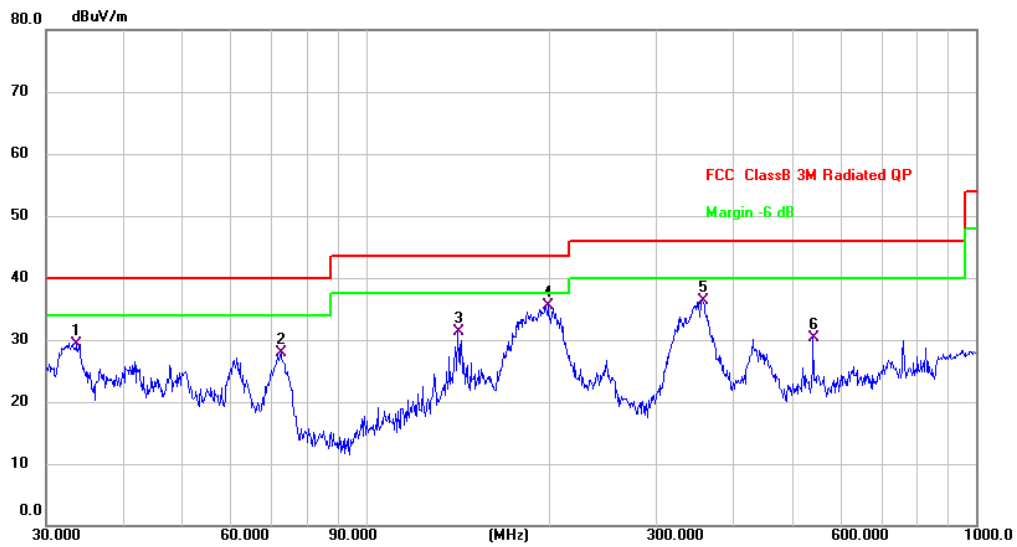
**6.4.3 Test Data:**

Mode2 / Polarization: Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	!	33.2112	46.76	-9.94	36.82	40.00	-3.18	QP	
2	!	40.1347	43.30	-8.03	35.27	40.00	-4.73	QP	
3	*	44.5868	43.76	-6.92	36.84	40.00	-3.16	QP	
4		61.1316	41.73	-8.51	33.22	40.00	-6.78	QP	
5		205.6751	43.21	-7.40	35.81	43.50	-7.69	QP	
6		440.1963	40.06	-3.50	36.56	46.00	-9.44	QP	

## Mode2 / Polarization: Vertical



No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	33.6802	39.14	-9.84	29.30	40.00	-10.70	QP	
2	72.5916	38.65	-10.77	27.88	40.00	-12.12	QP	
3	141.3298	40.41	-9.07	31.34	43.50	-12.16	QP	
4 *	199.2855	42.61	-7.06	35.55	43.50	-7.95	QP	
5	356.6758	40.37	-4.07	36.30	46.00	-9.70	QP	
6	541.3725	32.19	-1.96	30.23	46.00	-15.77	QP	

## Photographs of the test setup

Refer to Appendix - Test Setup Photos

## Photographs of the EUT

Refer to Appendix - EUT Photos

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