

TEST REPORT

FCC ID: 2AYDUTY-DJS003

Product: Smart Bike Trainer (DJS-003)

Model No.: TY-DJS003

Additional Model No.: N/A

Trade Mark: **UNISKY**[®]

Report No.: TCT201117E020

Issued Date: Dec. 07, 2020

Issued for:

Jinhua Unisky Tools Co., Ltd.

118 Tianyu Rd., Zhuma Industrial Park, Wucheng District, Jinhua, 321000
China

Issued By:

Shenzhen Tongce Testing Lab.

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Appendix A: Photographs of Test Setup

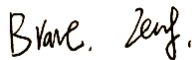
Appendix B: Photographs of EUT

1. Test Certification

Product:	Smart Bike Trainer (DJS-003)
Model No.:	TY-DJS003
Additional Model:	N/A
Trade Mark:	
Applicant:	Jinhua Unisky Tools Co., Ltd.
Address:	118 Tianyu Rd., Zhuma Industrial Park, Wucheng District, Jinhua, 321000 China
Manufacturer:	Jinhua Unisky Tools Co., Ltd.
Address:	118 Tianyu Rd., Zhuma Industrial Park, Wucheng District, Jinhua, 321000 China
Date of Test:	Nov. 18, 2020 – Dec. 04, 2020
Applicable Standards:	FCC CFR Title 47 Part 15 Subpart C Section 15.249 ANSI C63.10:2013

The above equipment has been tested by Shenzhen Tongce Testing Lab. and found compliance with the requirements set forth in the technical standards mentioned above. The results of testing in this report apply only to the product/system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Tested By:

**Brave Zeng**

Date:

Dec. 04, 2020

Reviewed By:

**Beryl Zhao**

Date:

Dec. 07, 2020

Approved By:

**Tomsin**

Date:

Dec. 07, 2020


2. Test Result Summary

Requirement	CFR 47 Section	Result
Antenna Requirement	§15.203	PASS
AC Power Line Conducted Emission	§15.207	PASS
Field Strength of Fundamental	§15.249 (a)	PASS
Spurious Emissions	§15.249 (a) (d)/ §15.209	PASS
Band Edge	§15.249 (d)/ §15.205	PASS
20dB Occupied Bandwidth	§15.215 (c)	PASS

Note:

1. Pass: Test item meets the requirement.
2. Fail: Test item does not meet the requirement.
3. N/A: Test case does not apply to the test object.
4. The test result judgment is decided by the limit of test standard.

3. EUT Description

Product:	Smart Bike Trainer (DJS-003)
Model No.:	TY-DJS003
Additional Model:	N/A
Trade Mark:	
Operation Frequency:	2457MHz
Modulation Technology:	GFSK
Antenna Type:	PCB Antenna
Antenna Gain:	-2dBi
Power Supply:	AC 120V/60Hz
AC adapter:	Adapter Information: Adapter Model: ABT040120 Input: AC 100-240V, 50/60Hz, 1.5A MAX Output: DC 12V, 4A

Note: The antenna gain listed in this report is provided by applicant, and the test laboratory is not responsible for this parameter.

4. General Information

4.1. Test Environment and Mode

Operating Environment:		
Condition	Conducted Emission	Radiated Emission
Temperature:	25.0 °C	25.0 °C
Humidity:	55 % RH	55 % RH
Atmospheric Pressure:	1010 mbar	1010 mbar
Test Mode:		
Engineering mode:	Keep the EUT in continuous transmitting by select channel and modulations with Fully-charged battery	
<p>The sample was placed 0.8m & 1.5m for the measurement below & above 1GHz above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case(Z axis) are shown in Test Results of the following pages.</p>		

4.2. 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.

Equipment	Model No.	Serial No.	FCC ID	Trade Name
/	/	/	/	/

Note:

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

5. Facilities and Accreditations

5.1. Facilities

The test facility is recognized, certified, or accredited by the following organizations:

- FCC - Registration No.: 645098

Shenzhen Tongce Testing Lab

The 3m Semi-anechoic chamber has been registered and fully described in a report with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files.

- IC - Registration No.: 10668A-1

The 3m Semi-anechoic chamber of Shenzhen TCT Testing Technology Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing

5.2. Location

Shenzhen Tongce Testing Lab

Address: 1B/F., Building 1, Yibaolai Industrial Park, Qiaotou, Fuyong, Baoan District, Shenzhen, Guangdong, China

TEL: +86-755-27673339

5.3. Measurement Uncertainty

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95 %.

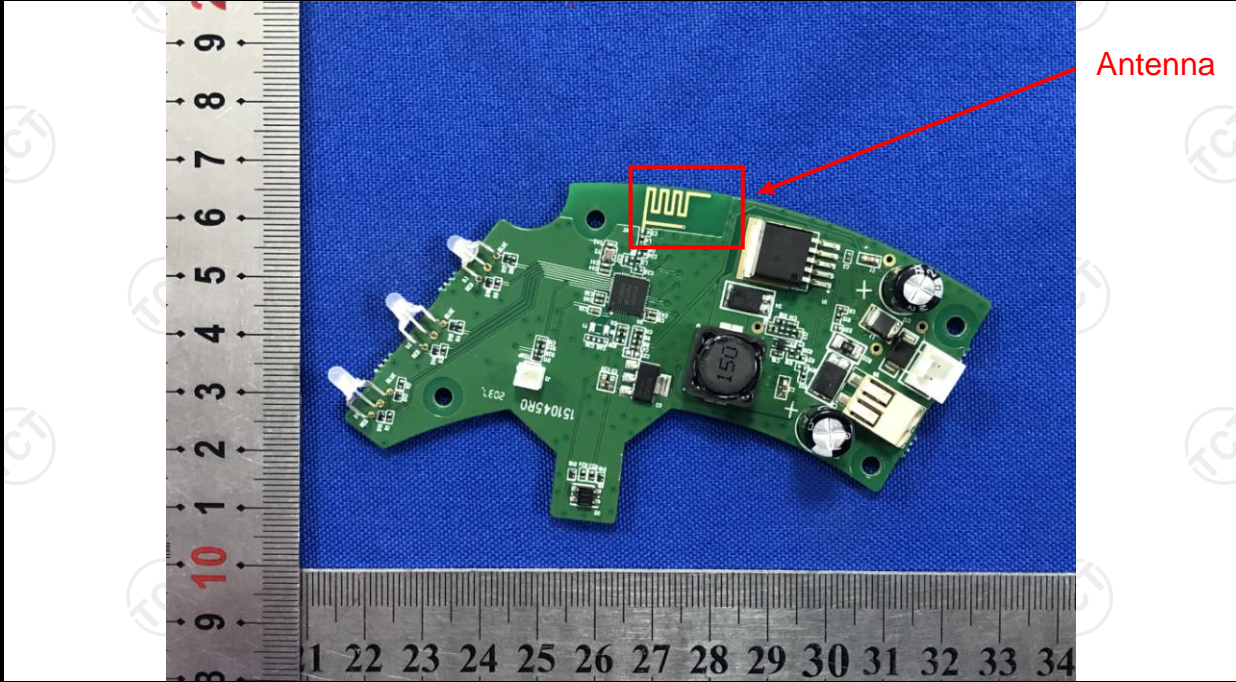
No.	Item	MU
1	Conducted Emission	$\pm 2.56\text{dB}$
2	RF power, conducted	$\pm 0.12\text{dB}$
3	Spurious emissions, conducted	$\pm 0.11\text{dB}$
4	All emissions, radiated(<1GHz)	$\pm 3.92\text{dB}$
5	All emissions, radiated(>1GHz)	$\pm 4.28\text{dB}$
6	Temperature	$\pm 0.1^\circ\text{C}$
7	Humidity	$\pm 1.0\%$

6. Test Results and Measurement Data

6.1. Antenna Requirement

Standard requirement:	FCC Part15 C Section 15.203
15.203 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, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.	

E.U.T Antenna:	
The EUT antenna is an PCB antenna which permanently attached, and the best case gain of the antenna is -2dBi.	



6.2. Conducted Emission

6.2.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.207														
Test Method:	ANSI C63.10:2013														
Frequency Range:	150 kHz to 30 MHz														
Receiver setup:	RBW=9 kHz, VBW=30 kHz, Sweep time=auto														
Limits:	<table border="1"> <thead> <tr> <th rowspan="2">Frequency range (MHz)</th> <th colspan="2">Limit (dBuV)</th> </tr> <tr> <th>Quasi-peak</th> <th>Average</th> </tr> </thead> <tbody> <tr> <td>0.15-0.5</td> <td>66 to 56*</td> <td>56 to 46*</td> </tr> <tr> <td>0.5-5</td> <td>56</td> <td>46</td> </tr> <tr> <td>5-30</td> <td>60</td> <td>50</td> </tr> </tbody> </table>	Frequency range (MHz)	Limit (dBuV)		Quasi-peak	Average	0.15-0.5	66 to 56*	56 to 46*	0.5-5	56	46	5-30	60	50
Frequency range (MHz)	Limit (dBuV)														
	Quasi-peak	Average													
0.15-0.5	66 to 56*	56 to 46*													
0.5-5	56	46													
5-30	60	50													
Test Setup:	<p><i>Remark:</i> E.U.T: Equipment Under Test LISN: Line Impedance Stabilization Network Test table height=0.8m</p>														
Test Mode:	Transmitting mode with modulation														
Test Procedure:	<ol style="list-style-type: none"> 1. The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment. 2. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs). 3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10:2013 on conducted measurement. 														
Test Result:	PASS														

6.2.1. Test Instruments

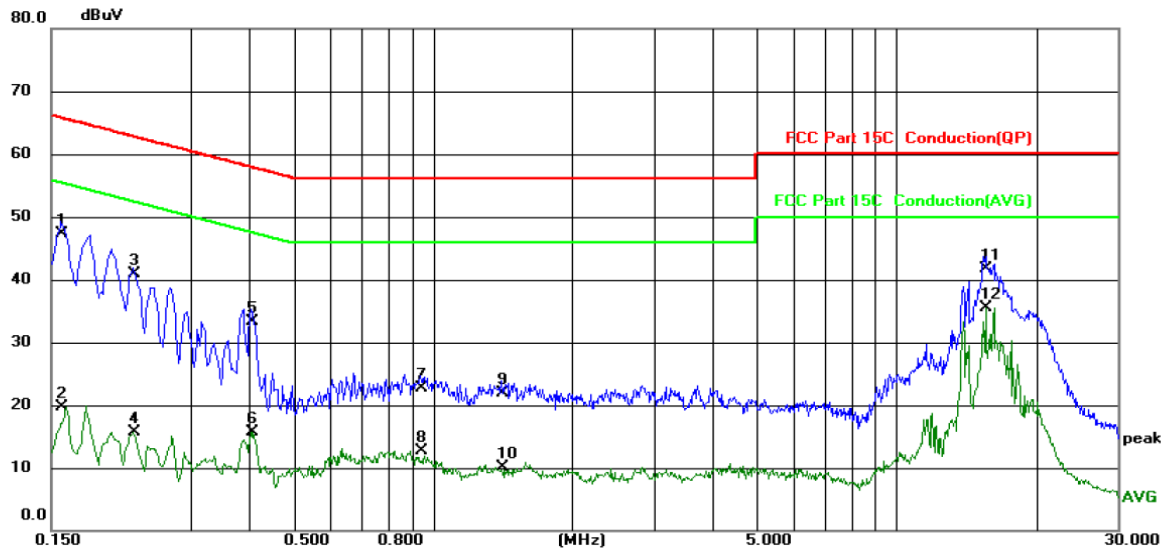
Conducted Emission Shielding Room Test Site (843)				
Equipment	Manufacturer	Model	Serial Number	Calibration Due
Test Receiver	R&S	ESCI3	100898	Jul. 27, 2021
LISN-2	Schwarzbeck	NSLK 8126	8126453	Sep. 11, 2021
Line-5	TCT	CE-05	N/A	Sep. 02, 2021
EMI Test Software	Shurple Technology	EZ-EMC	N/A	N/A

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

6.2.2. Test data

Please refer to following diagram for individual

Conducted Emission on Line Terminal of the power line (150 kHz to 30MHz)



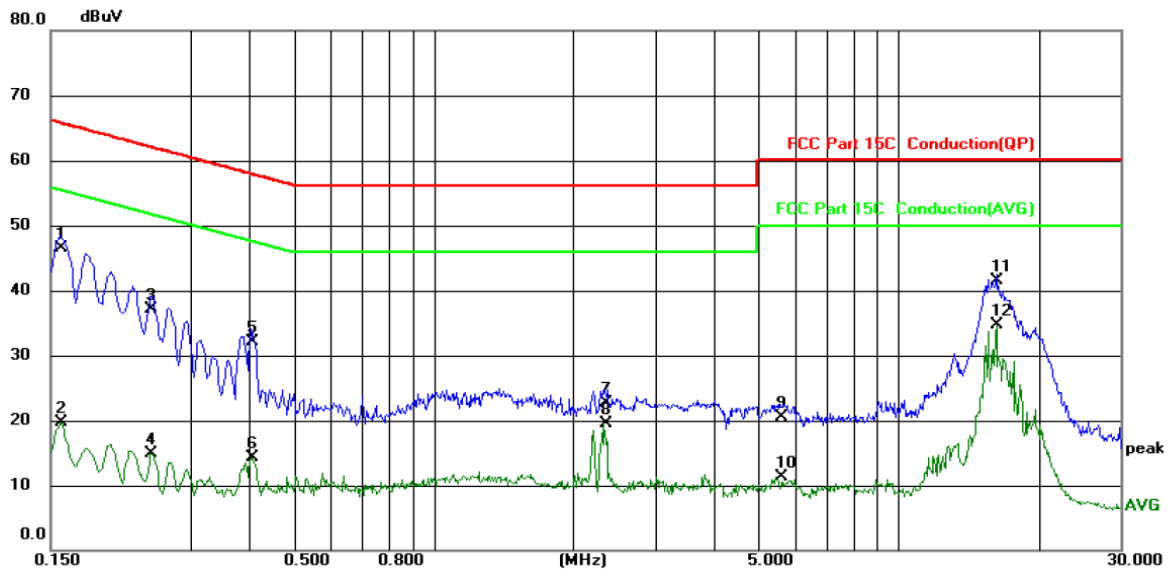
Site: Phase: **L1** Temperature: 25 (C)
Limit: FCC Part 15C Conduction(QP) Power: AC120V/60Hz Humidity: 55 %RH

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1580	37.17	10.11	47.28	65.57	-18.29	QP	
2		0.1580	9.61	10.11	19.72	55.57	-35.85	AVG	
3		0.2260	30.71	10.12	40.83	62.60	-21.77	QP	
4		0.2260	5.67	10.12	15.79	52.60	-36.81	AVG	
5		0.4060	23.17	10.13	33.30	57.73	-24.43	QP	
6		0.4060	5.62	10.13	15.75	47.73	-31.98	AVG	
7		0.9418	12.47	10.17	22.64	56.00	-33.36	QP	
8		0.9418	2.44	10.17	12.61	46.00	-33.39	AVG	
9		1.4100	11.67	10.20	21.87	56.00	-34.13	QP	
10		1.4100	-0.01	10.20	10.19	46.00	-35.81	AVG	
11		15.6179	30.73	11.02	41.75	60.00	-18.25	QP	
12	*	15.6179	24.54	11.02	35.56	50.00	-14.44	AVG	

Note:

- Freq. = Emission frequency in MHz
- Reading level (dBuV) = Receiver reading
- Corr. Factor (dB) = LISN factor + Cable loss
- Measurement (dBuV) = Reading level (dBuV) + Corr. Factor (dB)
- Limit (dBuV) = Limit stated in standard
- Margin (dB) = Measurement (dBuV) – Limits (dBuV)
- Q.P. =Quasi-Peak
- AVG =average
- * is meaning the worst frequency has been tested in the frequency range 150 kHz to 30MHz

Conducted Emission on Neutral Terminal of the power line (150 kHz to 30MHz)



Site: Phase: **N** Temperature: 25 (C)
Limit: FCC Part 15C Conduction(QP) Power: AC120V/60Hz Humidity: 55 %RH

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1580	36.35	10.11	46.46	65.57	-19.11	QP	
2		0.1580	9.60	10.11	19.71	55.57	-35.86	AVG	
3		0.2459	27.05	10.12	37.17	61.89	-24.72	QP	
4		0.2459	4.86	10.12	14.98	51.89	-36.91	AVG	
5		0.4060	22.03	10.13	32.16	57.73	-25.57	QP	
6		0.4060	4.11	10.13	14.24	47.73	-33.49	AVG	
7		2.3380	12.54	10.26	22.80	56.00	-33.20	QP	
8		2.3380	9.29	10.26	19.55	46.00	-26.45	AVG	
9		5.5739	10.15	10.43	20.58	60.00	-39.42	QP	
10		5.5739	0.79	10.43	11.22	50.00	-38.78	AVG	
11		16.2300	30.46	11.08	41.54	60.00	-18.46	QP	
12	*	16.2300	23.61	11.08	34.69	50.00	-15.31	AVG	

Note1:

Freq. = Emission frequency in MHz
Reading level (dBuV) = Receiver reading
Corr. Factor (dB) = LISN factor + Cable loss
Measurement (dBuV) = Reading level (dBuV) + Corr. Factor (dB)
Limit (dBuV) = Limit stated in standard
Margin (dB) = Measurement (dBuV) – Limits (dBuV)
Q.P. =Quasi-Peak *AVG* =average
 * is meaning the worst frequency has been tested in the frequency range 150 kHz to 30MHz.

6.3. Radiated Emission Measurement

6.3.1. Test Specification

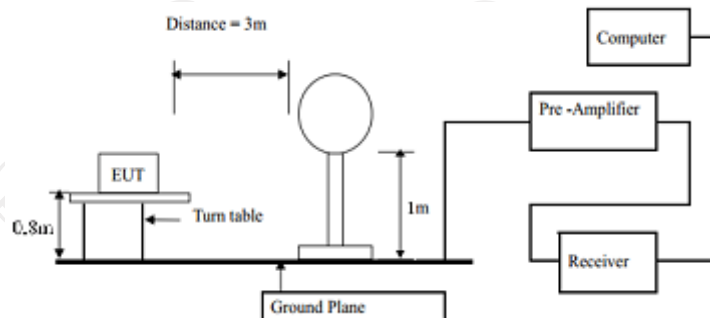
Test Requirement:	FCC Part15 C Section 15.209				
Test Method:	ANSI C63.10:2013				
Frequency Range:	9 kHz to 25 GHz				
Measurement Distance:	3 m				
Antenna Polarization:	Horizontal & Vertical				
Receiver Setup:	Frequency	Detector	RBW	VBW	Remark
	9kHz- 150kHz	Quasi-peak	200Hz	1kHz	Quasi-peak Value
	150kHz- 30MHz	Quasi-peak	9kHz	30kHz	Quasi-peak Value
	30MHz-1GHz	Quasi-peak	120kHz	300kHz	Quasi-peak Value
	Above 1GHz	Peak	1MHz	3MHz	Peak Value
		Peak	1MHz	10Hz	Average Value
Limit(Field strength of the fundamental signal):	Frequency		Limit (dBuV/m @3m)		Remark
	2400MHz-2483.5MHz		94.00		Average Value
			114.00		Peak Value
Limit(Spurious Emissions):	Frequency (MHz)	Limit (dBuV/m @m)	Measurement distance (meters)	Remark	
	0.009-0.490	2400/F(KHz)	300	Quasi-peak Value	
	0.490-1.705	24000/F(KHz)	30	Quasi-peak Value	
	1.705-30	30	30	Quasi-peak Value	
	30-88	40.0	3	Quasi-peak Value	
	88-216	43.5	3	Quasi-peak Value	
	216-960	46.0	3	Quasi-peak Value	
	960-1000	54.0	3	Quasi-peak Value	
	Above 1000	54.0	3	Average Value	
	74.0	3	Peak Value		
Limit (band edge) :	Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.				
Test Procedure:	<ol style="list-style-type: none"> The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter chamber in below 1GHz, 1.5m above the ground in above 1GHz. The table was rotated 360 degrees to determine the position of the highest radiation. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. The antenna height is varied from one meter to four meters above the ground to determine the maximum 				

Test setup:

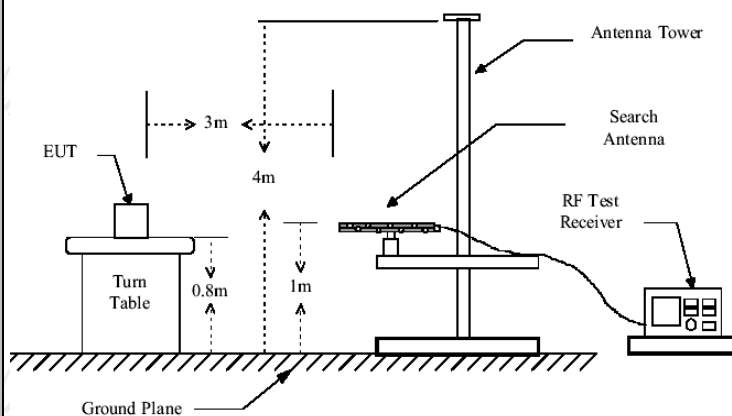
value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

For radiated emissions below 30MHz

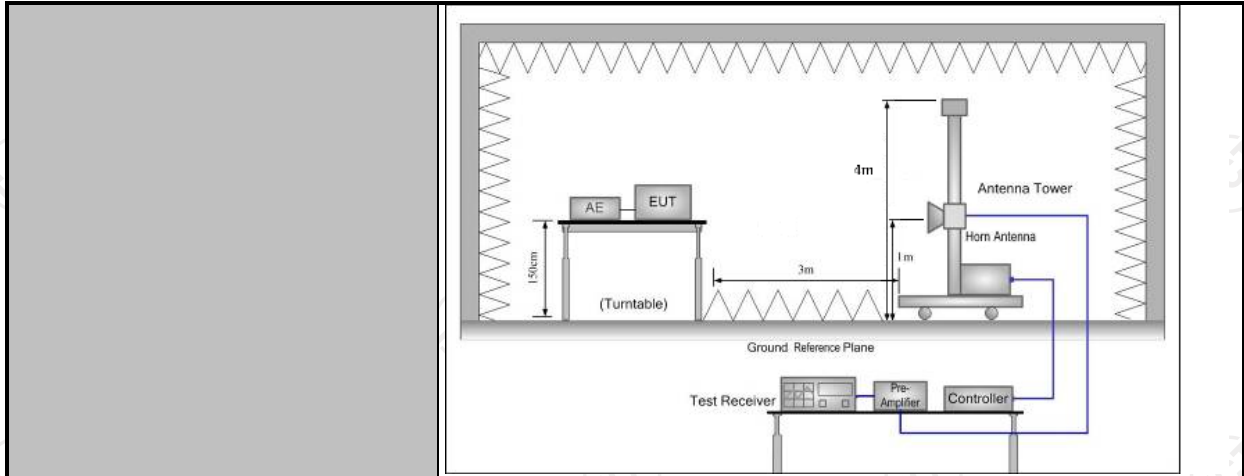


30MHz to 1GHz



Above 1GHz

(The diagram below shows the test setup that is utilized to make the measurements for emission from 1GHz to the tenth harmonic of the highest fundamental frequency or to 40GHz emissions, whichever is lower.)



Test results:

PASS



6.3.2. Test Instruments

Radiated Emission Test Site (966)				
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
Test Receiver	ROHDE&SCHW ARZ	ESIB7	100197	Jul. 27, 2021
Spectrum Analyzer	ROHDE&SCHW ARZ	FSQ40	200061	Sep. 11, 2021
Pre-amplifier	EM Electronics Corporation CO.,LTD	EM30265	07032613	Sep. 02, 2021
Pre-amplifier	HP	8447D	2727A05017	Sep. 02, 2021
Loop antenna	ZHINAN	ZN30900A	12024	Sep. 05, 2022
Broadband Antenna	Schwarzbeck	VULB9163	340	Sep. 04, 2022
Horn Antenna	Schwarzbeck	BBHA 9120D	631	Sep. 04, 2022
Horn Antenna	A-INFO	LB-180400-KF	J211020657	Sep. 04, 2022
Antenna Mast	Keleto	RE-AM	N/A	N/A
Line-4	TCT	RE-high-04	N/A	Sep. 02, 2021
Line-8	TCT	RE-01	N/A	Jul. 27, 2021
EMI Test Software	Shurple Technology	EZ-EMC	N/A	N/A

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

6.3.3. Test Data

Field Strength of Fundamental

Frequency (MHz)	Emission PK/AV (dBuV/m)	Horizontal /Vertical	Limits PK/AV (dBuV/m)	Margin (dB)
2457	88.65(PK)	H	114/94	-25.35
2457	75.60(AV)	H	114/94	-18.40
2457	88.19(PK)	V	114/94	-25.81
2457	76.70(AV)	V	114/94	-17.30

Spurious Emissions

Frequency Range (9 kHz-30MHz)

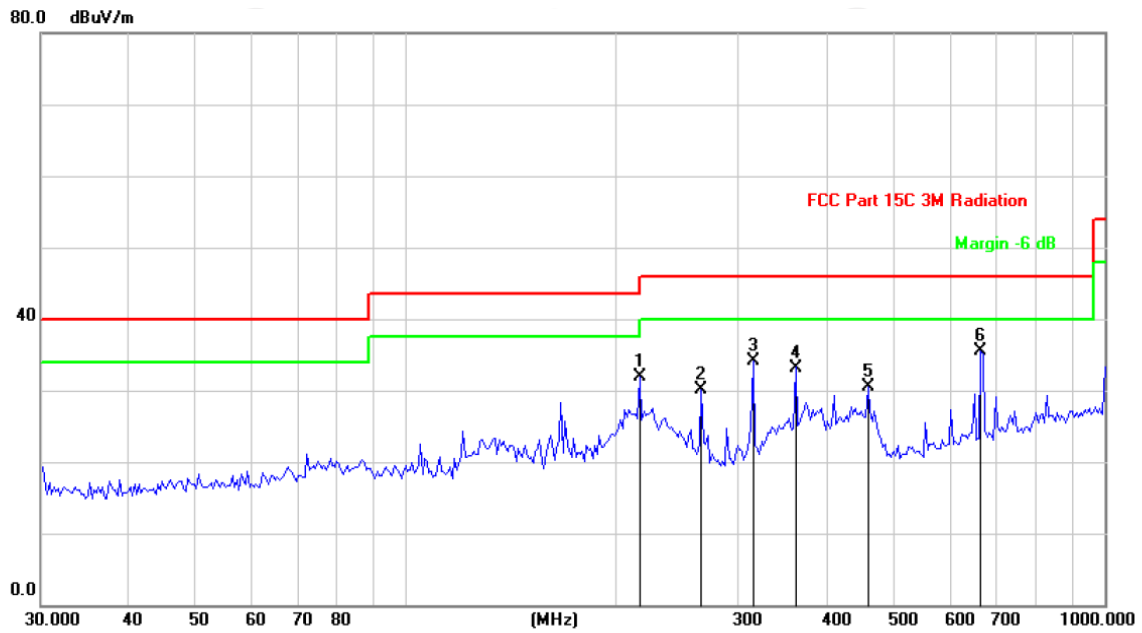
Frequency (MHz)	Level@3m (dB μ V/m)	Limit@3m (dB μ V/m)
--	--	--
--	--	--
--	--	--
--	--	--

Note: 1. Emission Level=Reading+ Cable loss-Antenna factor-Amp factor

2. The emission levels are 20 dB below the limit value, which are not reported. It is deemed to comply with the requirement
3. For fundamental frequency, RBW 3MHz VBW 10MHz, PK detector is for PK value, RMS detector is for AV value.

Frequency Range (30MHz-1GHz)

Horizontal:

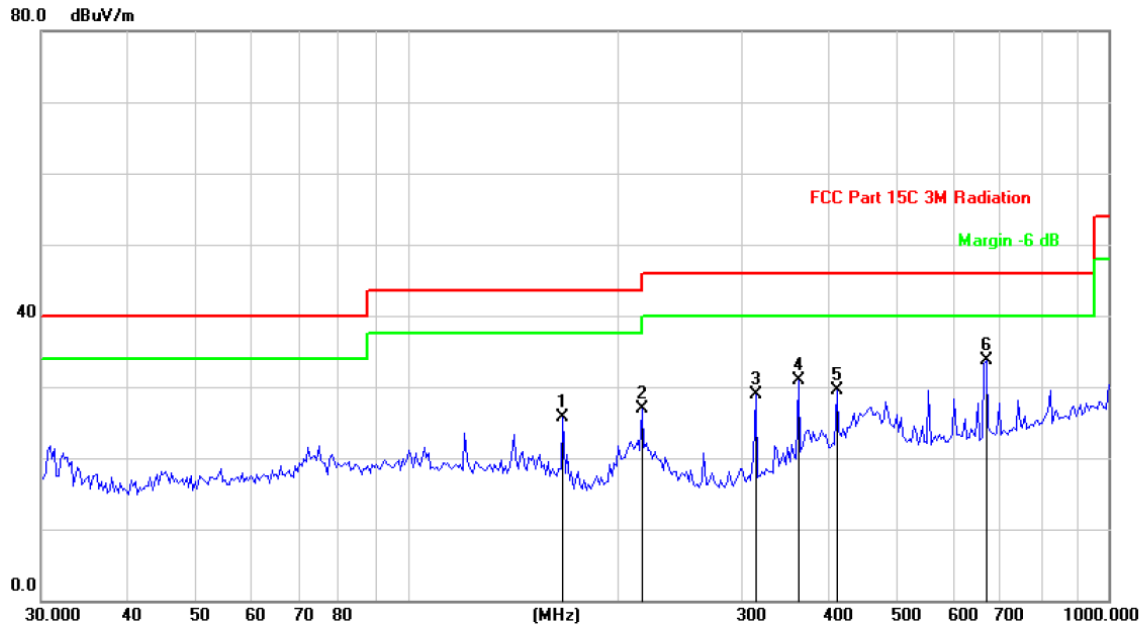


Site: Polarization: *Horizontal* Temperature: 25
Limit: FCC Part 15C 3M Radiation Power: Humidity: 55 %

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dB/m	Over dB	Detector
1		216.1195	45.77	-13.78	31.99	46.00	-14.01	peak
2		264.9709	42.24	-12.23	30.01	46.00	-15.99	peak
3		313.6482	44.71	-10.67	34.04	46.00	-11.96	peak
4		360.9775	42.75	-9.55	33.20	46.00	-12.80	peak
5		458.3987	38.54	-8.03	30.51	46.00	-15.49	peak
6	*	665.2610	40.51	-5.10	35.41	46.00	-10.59	peak



Vertical:



Site: Polarization: **Vertical** Temperature: 25
 Limit: FCC Part 15C 3M Radiation Power: Humidity: 55 %

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dB/m	Over dB	Detector
1		166.6385	41.46	-15.83	25.63	43.50	-17.87	peak
2		216.1197	40.66	-13.78	26.88	46.00	-19.12	peak
3		313.6482	39.62	-10.67	28.95	46.00	-17.05	peak
4		360.9775	40.39	-9.55	30.84	46.00	-15.16	peak
5		409.6506	38.20	-8.77	29.43	46.00	-16.57	peak
6	*	669.9523	38.74	-5.08	33.66	46.00	-12.34	peak

Above 1GHz

2457 MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBuV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
4914.00	H	52.31	---	-3.94	48.37	---	74	54	-5.63
7371.00	H	47.45	---	0.52	47.97	---	74	54	-6.03
---	---	---	---	---	---	---	---	---	---
4914.00	V	48.73	---	-3.94	44.79	---	74	54	-9.21
7371.00	V	45.36	---	0.52	45.88	---	74	54	-8.12
---	---	---	---	---	---	---	---	---	---

Note:

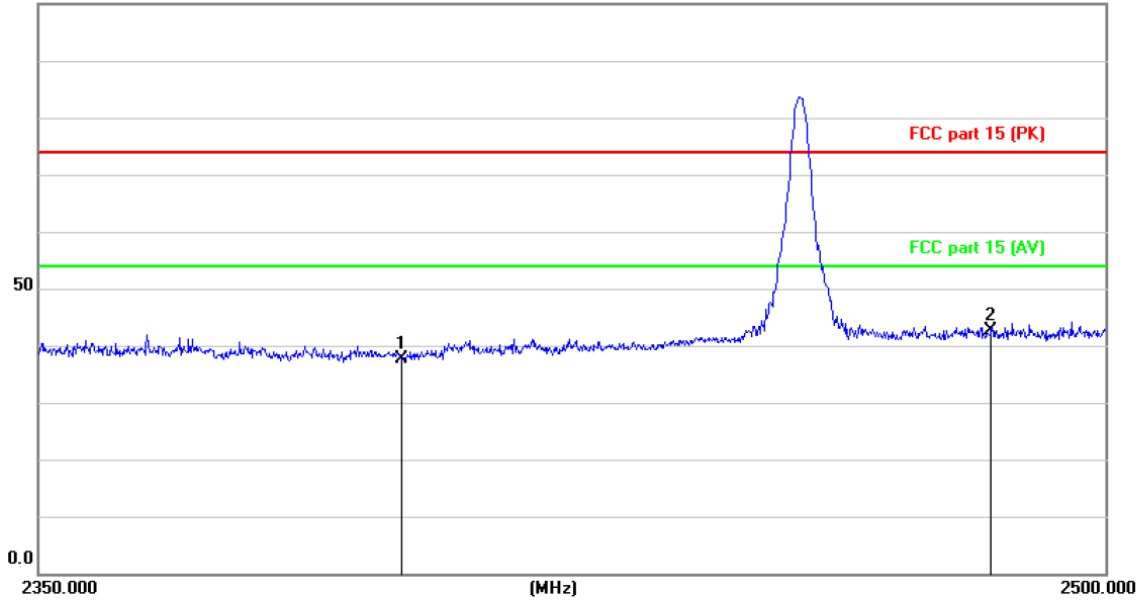
1. Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss – Pre-amplifier
2. Margin (dB) = Emission Level (Peak) (dBμV/m)-Average limit (dBμV/m)
3. The emission levels of other frequencies are very lower than the limit and not show in test report.
4. Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency.
5. Data of measurement shown “---“in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.
6. All the restriction bands are compliance with the limit of 15.209.

Band Edge Requirement

2457MHz:

Horizontal:

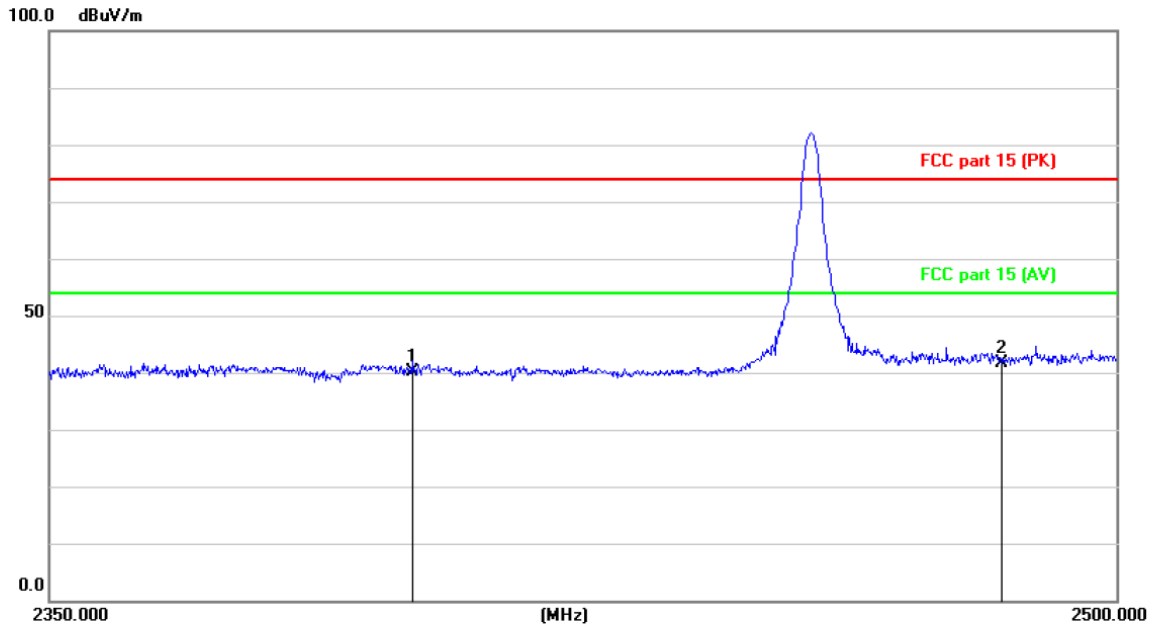
100.0 dBuV/m



Site Polarization: **Horizontal** Temperature: 25
Limit: FCC part 15 (PK) Power: Humidity: 55 %

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dB/m	Over dB	Detector
1		2400.000	50.79	-13.12	37.67	74.00	-36.33	peak
2	*	2483.500	55.49	-12.84	42.65	74.00	-31.35	peak

Vertical:



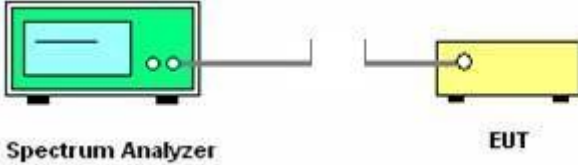
Site: Polarization: **Vertical** Temperature: 25
Limit: FCC part 15 (PK) Power: Humidity: 55 %

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dB/m	Over dB	Detector
1		2400.000	53.19	-13.12	40.07	74.00	-33.93	peak
2	*	2483.500	54.39	-12.84	41.55	74.00	-32.45	peak



6.4.20dB Occupied Bandwidth

6.4.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.215(c)
Test Method:	ANSI C63.10: 2013
Limit:	N/A
	<ol style="list-style-type: none"> 1. According to the follow Test-setup, keep the relative position between the artificial antenna and the EUT. 2. Set to the maximum power setting and enable the EUT transmit continuously. 3. Use the following spectrum analyzer settings for 20dB Bandwidth measurement. Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a hopping channel; RBW\geq1% of the 20 dB bandwidth; VBW\geqRBW; Sweep = auto; Detector function = peak; Trace = max hold. 4. Measure and record the results in the test report.
Test setup:	 <p>The diagram illustrates the test setup. On the left is a green Spectrum Analyzer with a screen and two knobs. A cable connects its output to the input of a yellow EUT (Equipment Under Test) on the right. Labels 'Spectrum Analyzer' and 'EUT' are placed below their respective icons.</p>
Test Mode:	Transmitting mode with modulation
Test results:	PASS

6.4.2. Test Instruments

RF Test Room				
Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	R&S	FSU	200054	Sep. 11, 2021

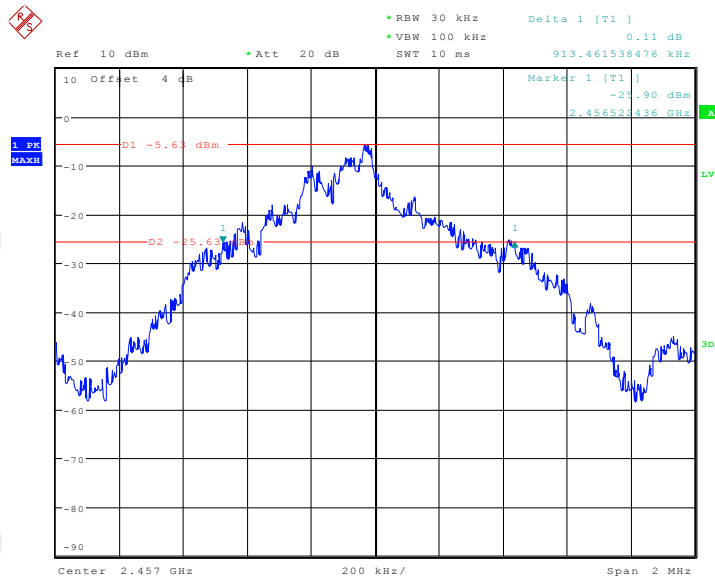
Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

6.4.3. Test data

Test Frequency	20dB Occupy Bandwidth (kHz)	Limit	Conclusion
2457 MHz	913.46	---	PASS

Test plots as follows:

2457 MHz



Date: 28.NOV.2020 15:41:54

Appendix A: Photographs of Test Setup

Refer to the test report No. TCT201117E013

Appendix B: Photographs of EUT

Refer to the test report No. TCT201117E013

*******END OF REPORT*******