


FCC RADIO TEST REPORT

Applicant..... : La Crosse Technology Ltd.
Address..... : 2809 Losey Blvd. South. La Crosse Wisconsin 54601 United States
Manufacturer..... : La Crosse Technology Ltd.
Address..... : 2809 Losey Blvd. South. La Crosse Wisconsin 54601 United States
Factory..... : La Crosse Technology Ltd.
Address..... : 2809 Losey Blvd. South. La Crosse Wisconsin 54601 United States
Product Name..... : GLIDE WIND SENSOR
Brand Name..... : LA CROSSE TECHNOLOGY
Model No. : LTV-W3 (For addition model and model difference refer to section 2)
FCC ID..... : OMOLTV-W3
Measurement Standard..... : 47 CFR FCC Part 15, Subpart C (Section 15.249)
Receipt Date of Samples.... : April 23, 2023
Date of Tested..... : April 23, 2023 to May 06, 2023
Date of Report..... : May 15, 2023

This report shows that above equipment is technically compliant with the requirements of the standards above. All test results in this report apply only to the tested sample(s). Without prior written approval of Dongguan Nore Testing Center Co., Ltd, this report shall not be reproduced except in full.


Prepared by
Rose Hu / Project Engineer


Approved by
Iori Fan / Authorized Signatory

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1. Summary of Test Result

FCC Rules	Description of Test	Result	Remarks
§15.207 (a)	AC Power Conducted Emission	N/A	See note
§15.249(a)/ 15.209	Radiated Emissions	PASS	---
§15.249(d)/ 15.205	Band Edge	PASS	---
§15.215(c)	20dB Bandwidth	PASS	---
§15.203	Antenna Requirement	PASS	---
<p>Note: AC Power Conducted Emission is not applicable due to the EUT only can be powered by battery.</p>			

2. General Description of EUT

Product Information	
Product name:	GLIDE WIND SENSOR
Main Model Name:	LTV-W3
Additional Model Name:	LTV-xx, LTV-xx-xxx, LTV-xxxx, LTV-xxxx-xxx, LTV-xx-xx, LTV-xx-xx-xxx (x can be 0~9 or A~Z or a~z, the difference for different version are the product shell color, and packaging upgrade version number, when upgrade a version the number progressed to next number. The hardware is the same. The software upgrade don't influence the RF characteristic. All the models are electrically identical.)
Model Difference:	These models have the same circuitry, electrical mechanical, PCB Layout and physical construction. The differences are model number, version are the product shell color and packaging upgrade version number due to marketing purpose.
S/N:	TX06800001
Brand Name:	LA CROSSE TECHNOLOGY
Hardware version:	TX068 REV03
Software version:	XCT069_B404
Rating:	3*DC 1.5V from AA battery
Typical arrangement:	Table-top
I/O Port:	N/A
Accessories Information	
Adapter:	N/A
Cable:	N/A
Other:	N/A
Additional information	
Note:	According to the model difference, all the tests were performed on model LTV-W3.
Remark:	All the information above are provided by the manufacturer. More detailed feature of the EUT please refers to the user manual.

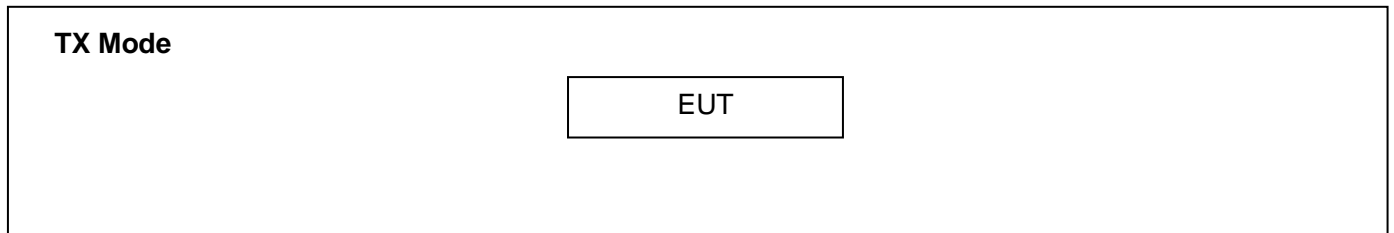
Technical Specification	
Frequency Range:	915MHz
Modulation Type:	ASK
Number of Channel:	1
Antenna Type:	Spring antenna
Antenna Gain:	0 dBi (Declared by manufacturer)

3. Test Channels and Modes Detail

Mode		Channel	Frequency (MHz)	Modulation	Data Rate (Mbps)
1.	TX	1	915	ASK	---
2.	Normal Mode	---	---	---	---

Note: TX mode means that the EUT was programmed to be in continuously transmitting mode.

4. Configuration of EUT



5. Modification of EUT

No modifications are made to the EUT during all test items.

6. Description of Support Device

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.

No.	Equipment	Brand	M/N	S/N	Cable Specification	Remarks
---	---	---	---	---	---	---

7. Test Facility and Location

Test Site	:	Dongguan Nore Testing Center Co., Ltd. (Dongguan NTC Co., Ltd.)
Accreditations and Authorizations	:	<p>The Laboratory has been assessed and proved to be in compliance with CNAS/CL01</p> <p>Listed by CNAS, August 13, 2018</p> <p>The Certificate Registration Number is L5795.</p> <p>The Certificate is valid until August 13, 2024</p> <p>The Laboratory has been assessed and proved to be in compliance with ISO17025</p> <p>Listed by A2LA, November 01, 2017</p> <p>The Certificate Registration Number is 4429.01</p> <p>Listed by FCC, November 06, 2017</p> <p>Test Firm Registration Number: 907417</p> <p>Listed by Industry Canada, June 08, 2017</p> <p>The Certificate Registration Number. Is 46405-9743A</p>
Test Site Location	:	Building D, Gaosheng Science and Technology Park, Hongtu Road, Nancheng District, Dongguan City, Guangdong Province, China

8. Applicable Standards and References

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

Test Standards:

47 CFR Part 15, Subpart C, 15.249

ANSI C63.10-2013

References Test Guidance:

N/A

9. Deviations and Abnormalities from Standard Conditions

No additions, deviations and exclusions from the standard.

10. Test Conditions

No.	Test Item	Test Mode	Test Voltage	Tested by	Remarks
1.	AC Power Conducted Emission	---	---	---	---
2.	Radiated Emissions	1	DC 4.5V	Sean	See note 1
3.	Band Edge	1	DC 4.5V	Sean	See note 1
4.	20dB Bandwidth	1	DC 4.5V	Sean	See note 1
5.	Antenna Requirement	---	---	---	---

Note:

1. The testing climatic conditions for temperature, humidity, and atmospheric pressure are within: 15~35 °C, 30~70%, 86~106kPa.
2. As the EUT can be operated multiple positions, all X,Y,Z axis were considered during the test and only the worst case X was recorded.
3. This product will not be connected to the AC mains during normal use, therefore the AC Power Conducted Emission test is not applicable.
4. The New battery be used during test.

11. Measurement Uncertainty

No.	Test Item	Frequency	Uncertainty	Remarks
1.	Conducted Emission	150KHz ~ 30MHz	±3.04 dB	---
2.	Radiated Emission	9kHz ~ 30MHz	±5.04 dB	
		30MHz ~ 1GHz	±5.04 dB	---
		1GHz ~ 18GHz	±5.23 dB	---
		18GHz ~ 40GHz	±5.23 dB	
3.	Conducted Spurious Emissions	10Hz ~ 40GHz	±0.78 dB	---
4.	RF Output Power	10Hz ~ 40GHz	±0.86 dB	
5.	Occupied Channel Bandwidth	---	±1.42 x10 ⁻⁷	---

Note:

1. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.
2. The measurement uncertainty levels above are estimated and calculated according to CISPR 16-4-2.
3. The conformity assessment statement in this report is based solely on the test results, measurement uncertainty is excluded.

12. Sample Calculations

Conducted Emission						
Freq. (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measurement (dBuV)	Limit (dBuV)	Over (dB)	Detector
0.1980	41.60	10.60	52.20	63.69	-11.49	QP

Where,

Freq. = Emission frequency in MHz
 Reading Level = Spectrum Analyzer/Receiver Reading
 Corrector Factor = Insertion loss of LISN + Cable Loss + RF Switching Unit attenuation
 Measurement = Reading + Corrector Factor
 Limit = Limit stated in standard
 Margin = Measurement - Limit
 Detector = Reading for Quasi-Peak / Average / Peak

Radiated Spurious Emissions and Restricted Bands						
Freq. (MHz)	Reading Level (dBuV)	Correct Factor (dB/m)	Measurement (dBuV/m)	Limit (dBuV/m)	Over (dB)	Detector
708.0300	6.00	29.05	35.05	46.00	-10.95	QP

Where,

Freq. = Emission frequency in MHz
 Reading Level = Spectrum Analyzer/Receiver Reading
 Corrector Factor = Antenna Factor + Cable Loss - Pre-amplifier
 Measurement = Reading + Corrector Factor
 Limit = Limit stated in standard
 Over = Margin, which calculated by Measurement - Limit
 Detector = Reading for Quasi-Peak / Average / Peak

Note: For all conducted test items, the spectrum analyzer offset or transducer is derived from RF cable loss and attenuator factor. The offset or transducer is equal to the RF cable loss plus attenuator factor.

13. Test Items and Results

13.1 Conducted Emissions Measurement

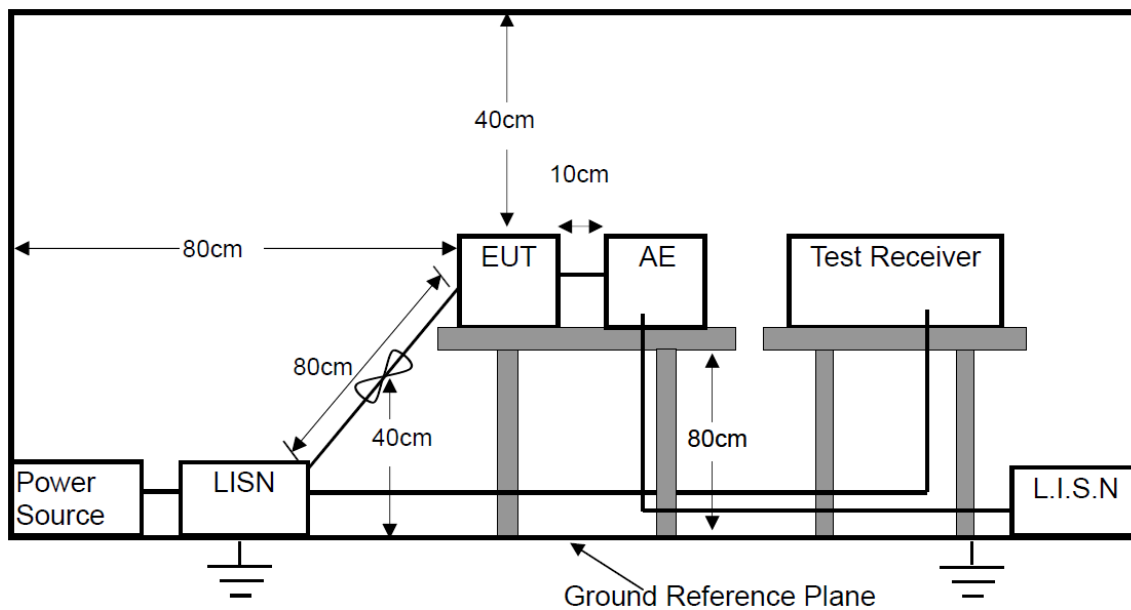
LIMIT

According to the requirements of FCC PART 15.207, the limits are as follows:

Frequency (MHz)	Quasi-peak	Average
0.15 to 0.5	66 to 56	56 to 46
0.5 to 5	56	46
5 to 30	60	50

Note: 1. If the limits for the average detector are met when using the quasi-peak detector, then the limits for the measurements with the average detector are considered to be met.
 2. The lower limit shall apply at the transition frequencies.
 3. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5MHz.

BLOCK DIAGRAM OF TEST SETUP



TEST PROCEDURES

- a. The EUT was placed on a wooden table 0.8m height from the metal ground plan and 0.4m from the conducting wall of the shielding room and it was kept at 0.8m from any other grounded conducting surface.
- b. All I/O cables and support devices were positioned as per ANSI C63.10.
- c. Connect mains power port of the EUT to a line impedance stabilization network (LISN).
- d. Connect all support devices to the other LISN and AAN, if needed.
- e. Scan the frequency range from 150KHz to 30MHz at both sides of AC line for maximum conducted interference checking and record the test data.

TEST RESULTS

Not Applicable.

13.2 Radiated Spurious Emissions and Restricted Bands Measurement

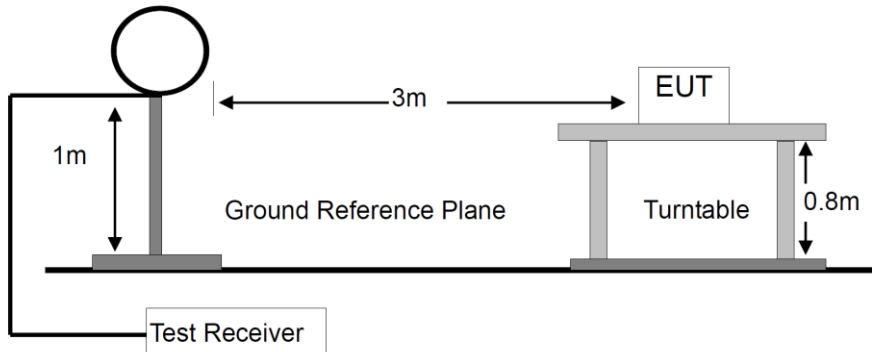
LIMIT

Frequency range MHz	Distance Meters	Field Strengths Limit (15.209)	
		μV/m	
0.009 ~ 0.490	300	2400/F(kHz)	
0.490 ~ 1.705	30	24000/F(kHz)	
1.705 ~ 30	30	30	
30 ~ 88	3	100	
88 ~ 216	3	150	
216 ~ 960	3	200	
Above 960	3	500	
Frequency range MHz	Distance Meters	Field Strengths Limit (15.249)	
		mV/m (Field strength of fundamental)	μV/m (Field strength of Harmonics)
902 ~ 928	3	50	500
2400 ~ 2483.5	3	50	500
5725 ~ 5875	3	50	500
24000 ~ 2425000	3	250	2500

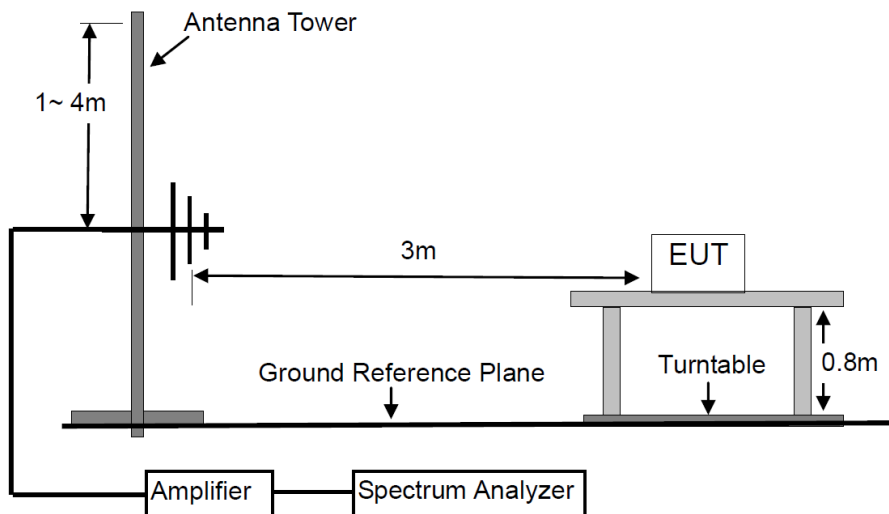
- Remark: (1) Emission level (dB)μV = 20 log Emission level μV/m
- (2) The smaller limit shall apply at the cross point between two frequency bands.
- (3) As shown in 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.
- (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.
- (5) §15.249(d) specifies that emissions which fall in the restricted bands, as defined in §15.205 comply with radiated emission limits specified in §15.209.

BLOCK DIAGRAM OF TEST SETUP

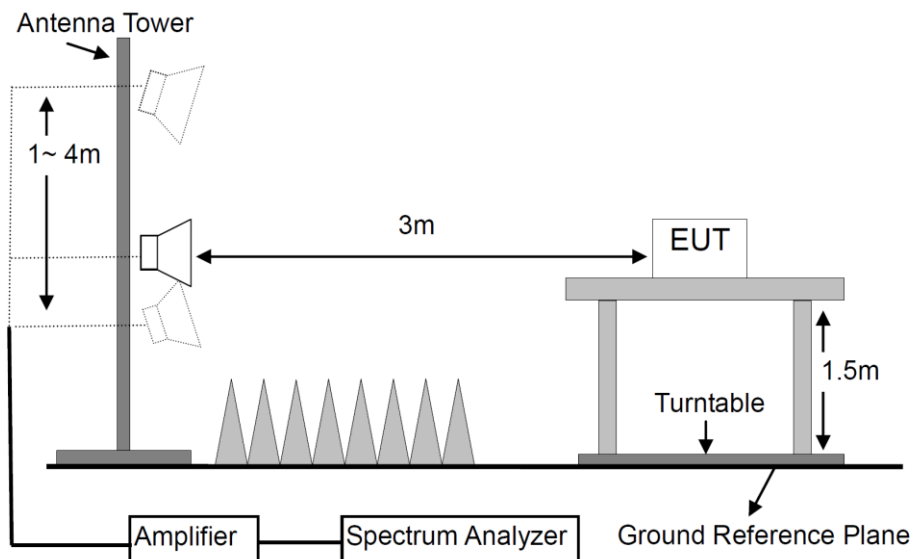
For Radiated Emission below 30MHz



For Radiated Emission 30-1000MHz



For Radiated Emission Above 1000MHz.



TEST PROCEDURES

- a. Below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi- anechoic chamber room.
- b. For the radiated emission test above 1GHz:
The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter full anechoic chamber room. The table was rotated 360 degrees to determine the position of the highest radiation. Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
- c. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. 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. The test-receiver system was set to peak detect function and specified bandwidth with maximum hold mode.
- f. A Quasi-peak measurement was then made for that frequency point for below 1GHz test. PK and AV for above 1GHz emission test.

During the radiated emission test, the spectrum analyzer was set with the following configurations:

Frequency Band (MHz)	Detector	Resolution Bandwidth	Video Bandwidth
30 to 1000	QP	120 kHz	300 kHz
Above 1000	Peak	1 MHz	3 MHz
	Average	1 MHz	10 Hz

TEST RESULTS

PASS

Please refer to the following pages.

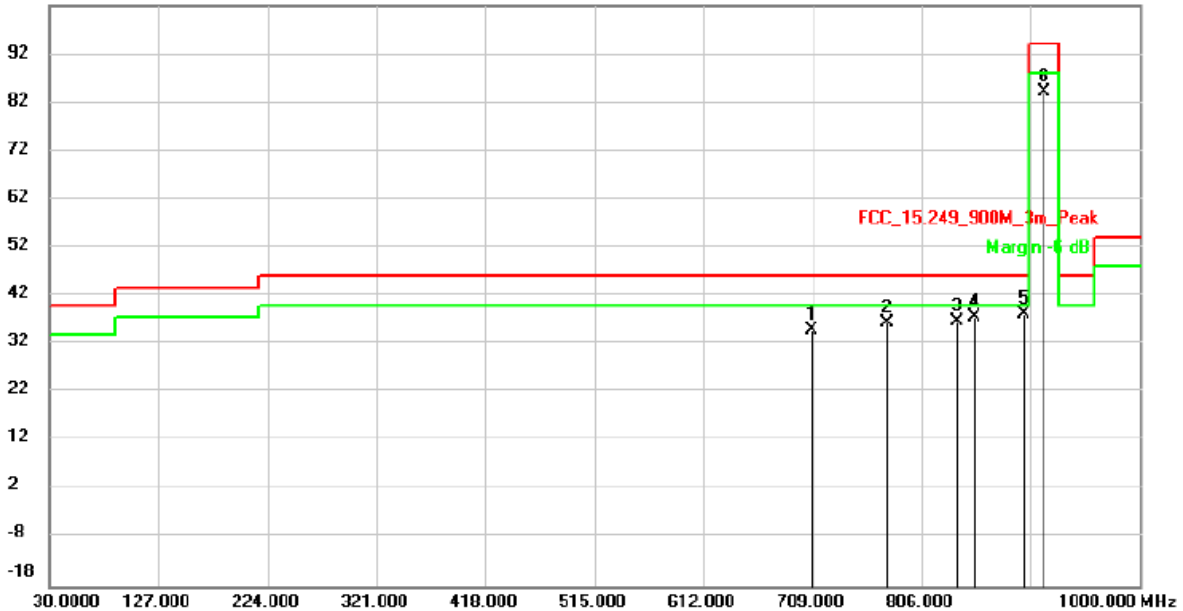
M/N: LTV-W3	Testing Voltage: DC 4.5V
Polarization: Horizontal	Detector: QP
Test Mode: 1	Distance: 3m

Radiated Emission Measurement

Date: 2023/4/24

Time: 10:40:58

102.0 dBuV/m



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1		708.0300	6.00	29.05	35.05	46.00	-10.95	QP	
2		774.9600	6.56	29.97	36.53	46.00	-9.47	QP	
3		838.0100	5.58	31.06	36.64	46.00	-9.36	QP	
4		852.5600	6.33	31.32	37.65	46.00	-8.35	QP	
5	*	897.1800	5.56	32.79	38.35	46.00	-7.65	QP	
6		915.0000	51.24	33.06	84.30	94.00	-9.70	QP	

Note: Below 30MHz, the emissions are lower than 20dB below the allowable limit.

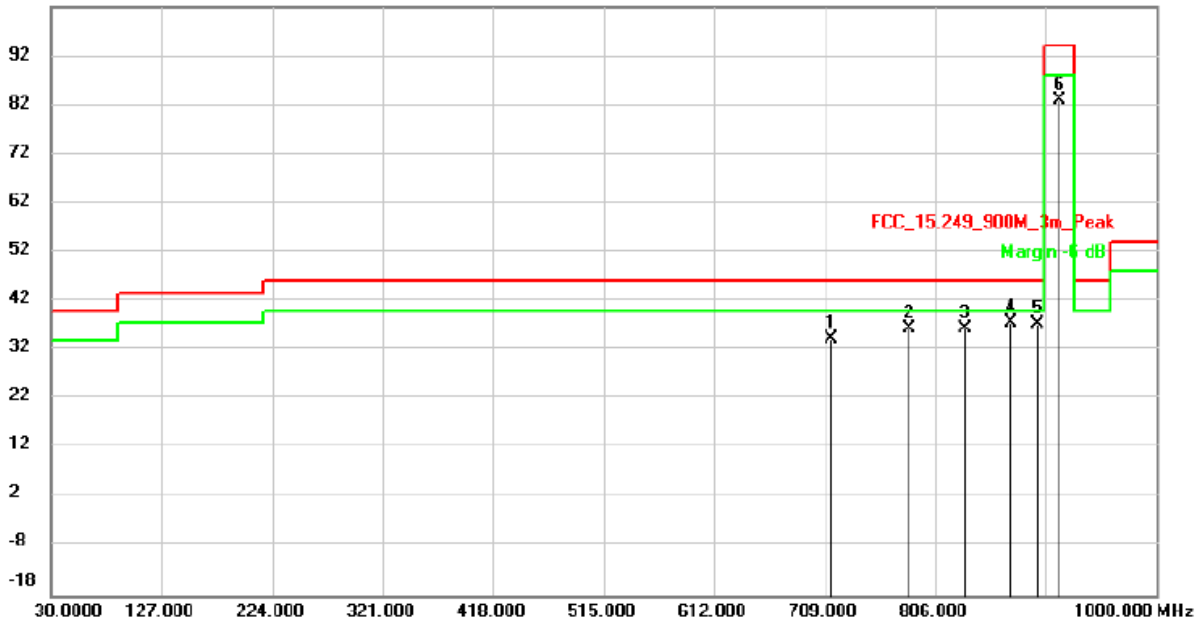
M/N: LTV-W3	Testing Voltage: DC 4.5V
Polarization: Vertical	Detector: QP
Test Mode: 1	Distance: 3m

Radiated Emission Measurement

Date: 2023/4/24

Time: 10:45:04

102.0 dBuV/m



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1		714.8200	5.28	29.16	34.44	46.00	-11.56	QP	
2		783.6900	6.31	30.08	36.39	46.00	-9.61	QP	
3		832.1900	5.44	30.94	36.38	46.00	-9.62	QP	
4	*	872.9300	5.97	31.54	37.51	46.00	-8.49	QP	
5		896.2100	5.55	31.72	37.27	46.00	-8.73	QP	
6		915.0000	51.18	31.82	83.00	94.00	-11.00	QP	

Note: Below 30MHz, the emissions are lower than 20dB below the allowable limit.

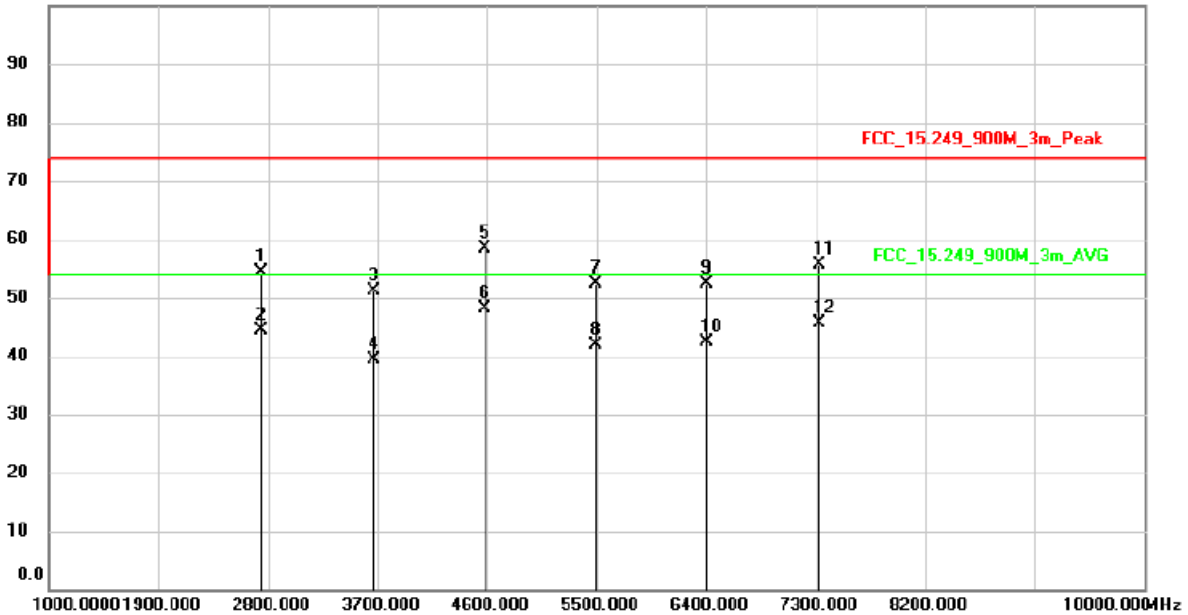
M/N: LTV-W3	Testing Voltage: DC 4.5V
Polarization: Horizontal	Detector: PK,AVG
Test Mode: 1	Distance: 3m

Radiated Emission Measurement

Date: 2023/4/24

Time: 11:01:07

100.0 dBuV/m



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1		2745.000	53.23	1.26	54.49	74.00	-19.51	peak	
2		2745.000	43.08	1.26	44.34	54.00	-9.66	AVG	
3		3660.000	47.95	3.06	51.01	74.00	-22.99	peak	
4		3660.000	36.35	3.06	39.41	54.00	-14.59	AVG	
5		4575.000	52.97	5.40	58.37	74.00	-15.63	peak	
6	*	4575.000	42.78	5.40	48.18	54.00	-5.82	AVG	
7		5490.000	45.61	6.80	52.41	74.00	-21.59	peak	
8		5490.000	35.11	6.80	41.91	54.00	-12.09	AVG	
9		6405.000	44.73	7.68	52.41	74.00	-21.59	peak	
10		6405.000	34.58	7.68	42.26	54.00	-11.74	AVG	
11		7320.000	45.13	10.55	55.68	74.00	-18.32	peak	
12		7320.000	34.96	10.55	45.51	54.00	-8.49	AVG	

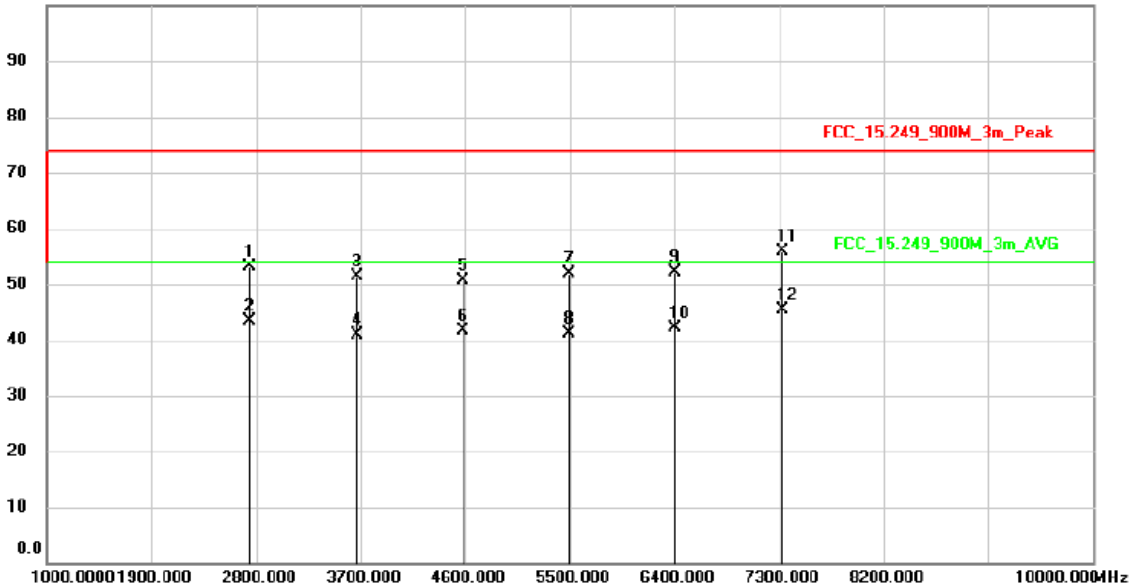
M/N: LTV-W3	Testing Voltage: DC 4.5V
Polarization: Vertical	Detector: PK,AVG
Test Mode: 1	Distance: 3m

Radiated Emission Measurement

Date: 2023/4/24

Time: 11:06:29

100.0 dBuV/m



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1		2745.000	51.80	1.26	53.06	74.00	-20.94	peak	
2		2745.000	42.02	1.26	43.28	54.00	-10.72	AVG	
3		3660.000	48.29	3.06	51.35	74.00	-22.65	peak	
4		3660.000	37.72	3.06	40.78	54.00	-13.22	AVG	
5		4575.000	45.13	5.40	50.53	74.00	-23.47	peak	
6		4575.000	36.33	5.40	41.73	54.00	-12.27	AVG	
7		5490.000	45.14	6.80	51.94	74.00	-22.06	peak	
8		5490.000	34.29	6.80	41.09	54.00	-12.91	AVG	
9		6405.000	44.47	7.68	52.15	74.00	-21.85	peak	
10		6405.000	34.49	7.68	42.17	54.00	-11.83	AVG	
11		7320.000	45.37	10.55	55.92	74.00	-18.08	peak	
12	*	7320.000	34.87	10.55	45.42	54.00	-8.58	AVG	

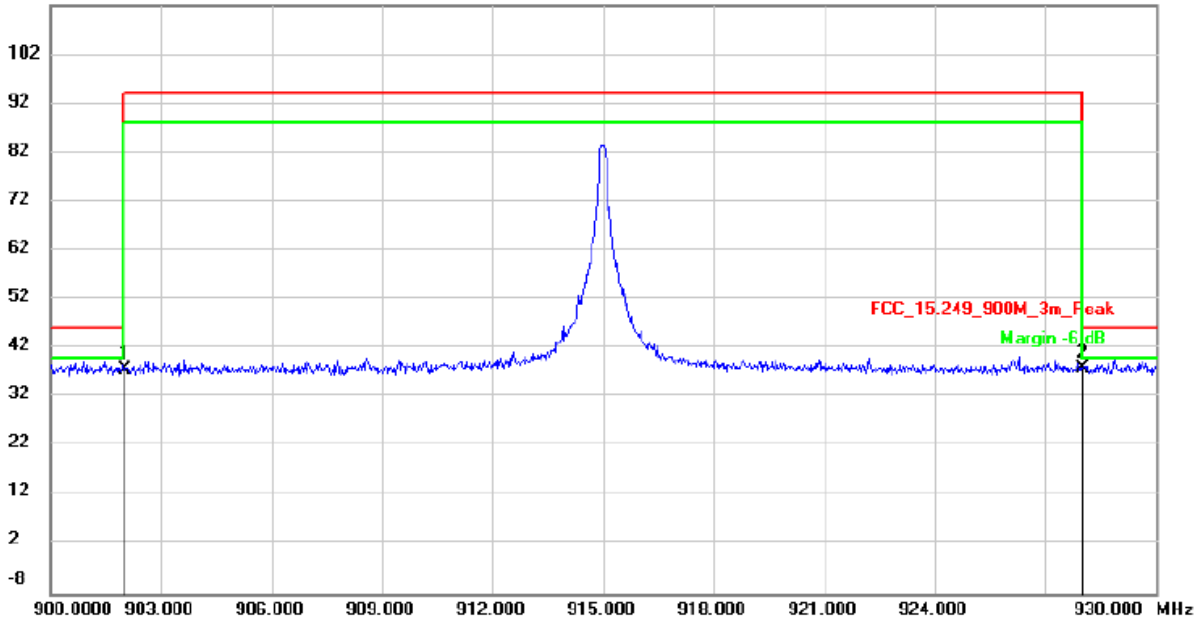
M/N: LTV-W3	Testing Voltage: DC 4.5V
Polarization: Horizontal	Detector: QP
Test Mode: 1	Distance: 3m

Radiated Emission Measurement

Date: 2023/4/24

Time: 10:50:10

112.0 dBuV/m



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1		902.0000	4.79	32.99	37.78	46.00	-8.22	peak	
2	*	928.0000	4.95	33.14	38.09	46.00	-7.91	peak	

Note: The measured peak values are below the specified Quai-Peak limits, thus the peak values are considered compliance with the limits as well.

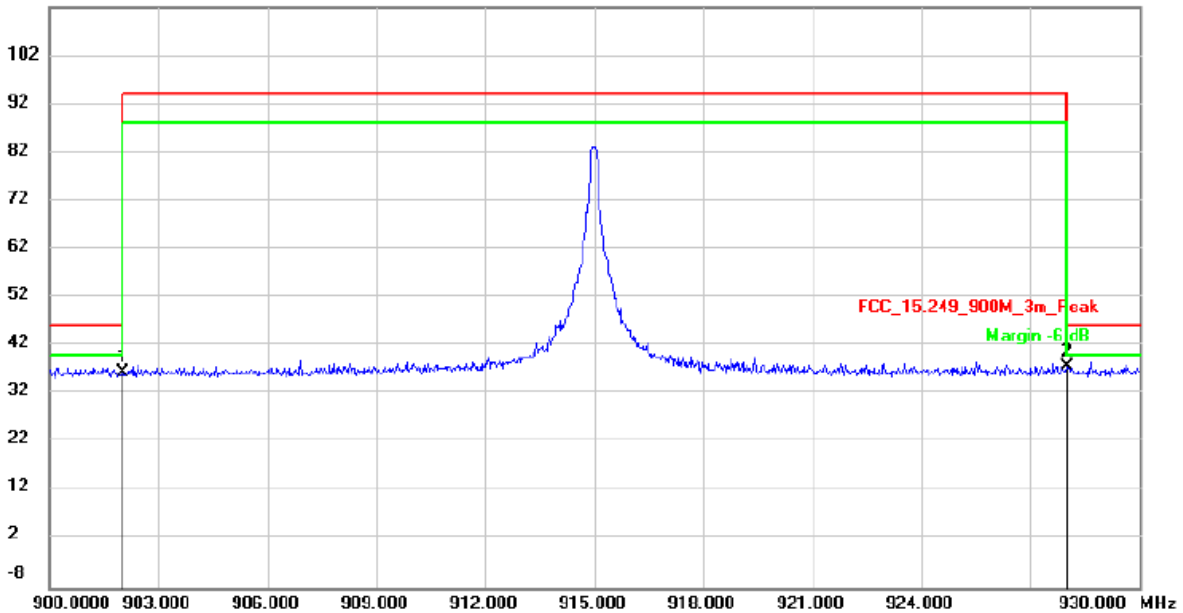
M/N: LTV-W3	Testing Voltage: DC 4.5V
Polarization: Vertical	Detector: QP
Test Mode: 1	Distance: 3m

Radiated Emission Measurement

Date: 2023/4/24

Time: 10:55:18

112.0 dBuV/m



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1		902.0000	4.73	31.75	36.48	46.00	-9.52	peak	
2	*	928.0000	5.72	31.90	37.62	46.00	-8.38	peak	

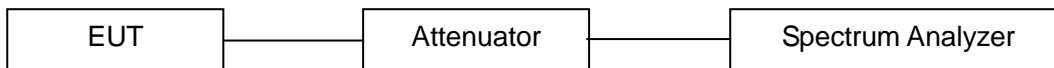
Note: The measured peak values are below the specified Quai-Peak limits, thus the peak values are considered compliance with the limits as well.

13.3 20dB Bandwidth Measurement

LIMIT

There is no limit.

BLOCK DIAGRAM OF TEST SETUP



TEST PROCEDURES

The 20dB bandwidth of the emission was contained within the frequency band designated 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, FCC Rule 15.215(c):

The antenna port of the EUT was connected to the input of a spectrum analyzer. Analyzer RBW was chosen so that the display was a result of the hopping channel modulation. For each RF output channel investigated, the spectrum analyzer center frequency was set to the channel carrier. Use the spectrum 20dB down delta function to measure the bandwidth.

TEST RESULTS

PASS

Please refer to the following table.

ASK			
Channel	Frequency (MHz)	20dB Bandwidth (KHz)	Result
1	915	395.8	PASS



The screenshot displays the Keysight Spectrum Analyzer interface. The main display shows a spectrum plot with a yellow trace. The plot parameters are: Center 915.000 MHz, #Res BW 30.000 kHz, #Video BW 100.00 kHz, Span 2 MHz, Sweep 2.13 ms (1001 pts). The plot shows a signal with a peak around -10 dBm. The interface includes various settings and measurement metrics.

Measurement	Value
Occupied Bandwidth	502.61 kHz
Transmit Freq Error	-11.757 kHz
x dB Bandwidth	395.8 kHz
Total Power	-2.94 dBm
% of OBW Power	99.00 %
x dB	-20.00 dB

Additional settings visible in the interface include: Input RF, Coupling: DC, Atten: 20 dB, Center Freq: 915.000000 MHz, Avg/Hold: >10/10, Radio Std: None, and Power Ref: Total Power.

13.4 Antenna Requirement

STANDARD APPLICABLE

According to of FCC part 15C section 15.203 and 15.249:

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.

ANTENNA CONNECTED CONSTRUCTION

The antenna is Spring antenna that no antenna other than furnished by the responsible party shall be used with the device, and the best case gain of the antenna is 0 dBi, Therefore, the antenna is consider meet the requirement.

14. Test Equipment List

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Test Receiver	Rohde & Schwarz	ESCI7	100837	Mar. 13, 2023	1 Year
2.	Antenna	Schwarzbeck	VULB9162	9162-010	Mar. 23, 2022	2 Year
3.	Spectrum Analyzer	Rohde & Schwarz	FSU26	200409/026	Mar. 13, 2023	1 Year
4.	Spectrum Analyzer	Keysight	N9020A	MY54200831	Mar. 13, 2023	1 Year
5.	Spectrum Analyzer	Rohde & Schwarz	FSV40	101094	Mar. 13, 2023	1 Year
6.	Horn Antenna	Schwarzbeck	BBHA9170	9170-172	Mar. 23, 2022	2 Year
7.	Power Sensor	DARE	RPR3006W	15I00041SNO 64	Mar. 13, 2023	1 Year
8.	Horn Antenna	COM-Power	AH-118	071078	Mar. 23, 2022	2 Year
9.	Pre-Amplifier	HP	HP 8449B	3008A00964	Mar. 13, 2023	1 Year
10.	Pre-Amplifier	HP	HP 8447D	1145A00203	Mar. 13, 2023	1 Year
11.	Loop Antenna	Schwarzbeck	FMZB 1513	1513-272	Mar. 23, 2022	2 Year
12.	Test Receiver	Rohde & Schwarz	ESCI	101152	Mar. 13, 2023	1 Year
13.	L.I.S.N	Rohde & Schwarz	ENV 216	101317	Mar. 13, 2023	1 Year
14.	RF Switching Unit	Compliance Direction Systems Inc.	RSU-M2	38311	Mar.13, 2023	1 Year
15.	Temporary antenna connector	TESCOM	SS402	N/A	N/A	N/A
16.	Test Software	EZ	EZ_EMG	N/A	N/A	N/A

Note: For photographs of EUT and measurement, please refer to appendix in separate documents.

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