



FCC PART 15.249 TEST REPORT

On Behalf of
C&A Marketing Inc.

114 Tived Lane East, Edison, New Jersey, 08837, United States.

FCC ID: 2AD2W-LOWSC510BO1
Model: LOWSC510WBO

April 28, 2026

This Report Concerns: ☒ Original Report	Equipment Type: Transmitter
Test Engineer: Fan Yang / <i>Fan Yang</i>	
Report Number: QCT26DR-1505E-01	
Test Date: April 20~21, 2026	
Test Result: Pass	
Reviewed By: Vincent Yang / <i>Vincent Yang</i>	
Approved By: Kendy Wang / <i>Kendy Wang</i>	
Prepared By: Shenzhen QC Testing Laboratory Co., Ltd. East of 1/F., Building E, Xinghong Science Park, No.111, Shuiku Road, Fenghuanggang, Xixiang Street, Bao'an District, Shenzhen, Guangdong, China Tel: 0755-23008269 Fax: 0755-23726780	





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Report Number

Description

Issued Date

QCT26DR-1505E-01

Initial Issue

2026-4-28



1. GENERAL INFORMATION

1.1 Product Description for Equipment under Test (EUT)

EUT Description	Transmitter
Model No.	LOWSC510WBO
Tested Model	LOWSC510WBO
Sample(s) Status	Engineer sample
Operation Frequency:	915MHz
Channel numbers:	1
Modulation type:	FSK
Antenna Type:	Spring Antenna
Antenna gain*1:	0dBi
Power supply:	4.5V DC (Powered by 3*1.5V AA battery)
Trade Mark:	Logia
Applicant	C&A Marketing Inc.
Address	114 Tived Lane East, Edison, New Jersey, 08837, United States.
Manufacturer	CCL ELECTRONICS LTD
Address	Unit 1-3, 9/F, Wang Lung Industrial Building, 11 Lung Tak Street, Tsuen Wan, Hong Kong
Sample No.	Y26D1505E01YN

Note: *1This information provided by Manufacturer, SZ QC Lab is not responsible for the accuracy of this information.

1.2 System Test Configuration

1.2.1 Support Equipment

N/A

1.2.2 Test mode and voltage

Transmitting mode: The manufacturer provides the engineering sample to set the continuously transmitting mode, and the power level is the default.

Test voltage: DC 4.5V

RF power setting	Default power
Test software	Press and hold the "test" key while powering on the device to set the continuously transmitting mode



1.3 Test Facility

Test Firm : Shenzhen QC Testing Laboratory Co., Ltd.

The testing quality ability of our laboratory meet with "Quality Law of People's Republic of China" Clause 19. The testing quality system of our laboratory meets with ISO/IEC-17025 requirements. This approval result is accepted by MRA of APLAC.

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

CNAS – Registration No.: L8464

The EMC Laboratory has been accredited by CNAS, and in compliance with ISO/IEC 17025:2017 General Requirements for testing Laboratories.

A2LA Certificate Number: 6759.01

The EMC Laboratory has been accredited by A2LA, and in compliance with ISO/IEC 17025:2017 General Requirements for testing Laboratories.

FCC Registration Number: 561109

The EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications commission.

IC Registration Number: 29628

CAB identifier: CN0141

The EMC Laboratory has been registered and fully described in a report filed with the (IC) Industry Canada.

1.4 Measurement Uncertainty

Parameter	Uncertainty
Occupied Channel Bandwidth	3.43%
RF output power, conducted	0.63dB
Power Spectral Density, conducted	0.69dB
Unwanted Emissions, conducted	0.90dB
AC Power Line Conducted Emission	1.80dB
Radiated Spurious Emission test (9kHz-30MHz)	2.68dB
Radiated Spurious Emission test (30MHz-1000MHz)	4.10dB
Radiated Spurious Emission test (1000MHz-18000MHz)	4.70dB
Radiated Spurious Emission test (18GHz-40GHz)	4.80dB
Temperature	0.375°C
Humidity	1.2679%
DC and low frequency voltages	0.18%
Time	0.133%
Duty cycle	0.133%

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



2. Summary of Test Results

Test Item	Section	Result
Antenna Requirement	15.203	Pass
Conduction Emission	15.207	Not Applicable
Radiated Emissions	15.205, 15.209, 15.249	Pass
20dB Bandwidth	15.215 (c)	Pass

Note: 1. In the configuration tested, the EUT complied with the standards specified above.

2. Test according to ANSI C63.10-2020+Cor.1-2023.

3. All indications of Pass/Fail in this report are opinions expressed by Shenzhen QC Testing Laboratory Co., Ltd. based on interpretations and/or observations of test results. Measurement Uncertainties were not taken into account and are published for informational purposes only.

4. The EUT is powered by the battery, and Conduction Emission is not applicable.



3. List of Test and Measurement Instruments

3.1 Radiated Emission Test

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due
1	EMI Test Receiver	R&S	ESIB 7	2277573376	2026.03.12	2027.03.11
2	EMI Test Receiver	ESPI3	ESPI3	101131	2026.03.12	2027.03.11
3	Spectrum Analyzer	Rohde&Schwarz	FSV 40	101458	2026.03.13	2027.03.12
4	TRILOG Broadband Test-Antenna	SCHWARZBECK	VULB9168	VULB9168-588	2026.03.14	2028.03.13
5	Loop Antenna	EMCO	6502	2133	2026.03.14	2028.03.13
6	horn antenna	SCHWARZBECK	BBHA9120D	2069	2026.03.14	2028.03.13
7	Horn Antenna	COM-MW	ZLB7-18-40G-950	12221225	2025.08.19	2027.08.18
8	Pre-amplifier	MITEQ	TTA0001-18	2063645	2026.03.12	2027.03.11
9	Pre-amplifier	MITEQ	TTA1800-30-HG	2063644	2026.03.12	2027.03.11
10	Pre-amplifier	COM-MW	DLAN-18000-40000-02	10229104	2026.03.12	2027.03.11
11	966 Camber	ZhongYU	9*6*6	/	2025.08.12	2028.08.11
12	Test Software	Farad	EZ-EMC Ver QCT03A2 RE+	N/A	N/A	N/A

3.2 RF Conducted test

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due
1.	Spectrum Analyzer	ROHDE&SCHWARZ	FSV 40	101458	2026.03.13	2027.03.12



4. 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.

EUT Antenna: The antenna is Spring Antenna, reference to the Internal Photos for details.

5. Radiated Emission Method

5.1. Applicable Standard

FCC Part15 C Section 15.249

5.2. Limit

Fundamental frequency	Field strength of fundamental (millivolts/meter)	Field strength of harmonics (microvolts/meter)
902-928 MHz	50	500
2400-2483.5 MHz	50	500
5725-5875 MHz	50	500
24.0-24.25 GHz	250	2500

As per FCC Section 15.249

(c) Field strength limits are specified at a distance of 3 meters.

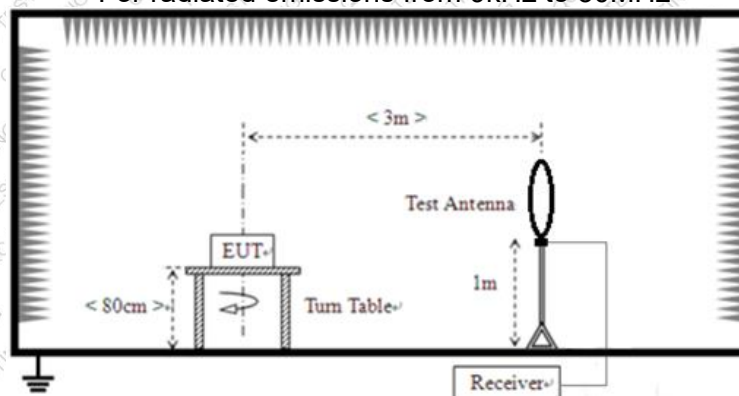
(d) Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

5.3. Receiver setup

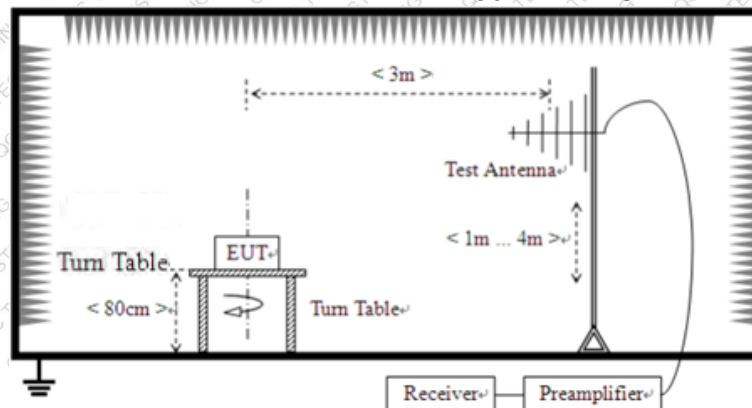
Frequency	Detector	RBW	VBW	Value
9KHz-150KHz	Quasi-peak	200Hz	600Hz	Quasi-peak
150KHz-30MHz	Quasi-peak	9KHz	30KHz	Quasi-peak
30MHz-1GHz	Quasi-peak	100KHz	300KHz	Quasi-peak
Above 1GHz	Peak	1MHz	3MHz	Peak
	Peak	1MHz	10Hz	Average

5.4. Test setup

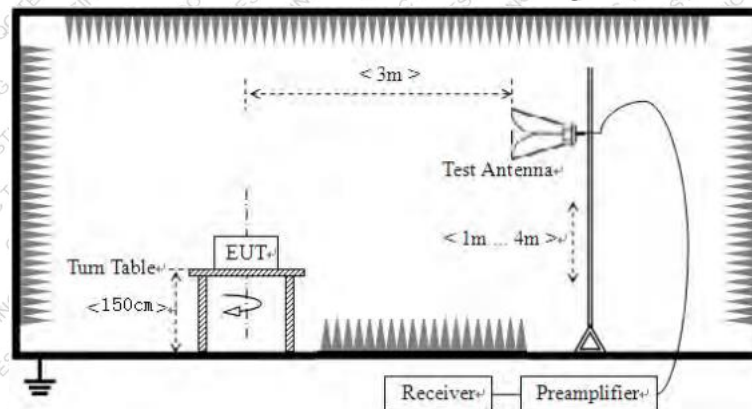
For radiated emissions from 9kHz to 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



5.5. Test Procedure

1. The EUT was placed on the top of a rotating table (0.8 meters for below 1GHz and 1.5 meters for above 1GHz) above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.
2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
3. The antenna height 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.
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 rota 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.



5.6. Test Data

Temperature	25-26°C	Humidity	49-54%
ATM Pressure	101kPa	Antenna Gain	0dBi
Test by	Fan Yang	Test result	PASS

Remarks:

1. Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis which it is worse case.
2. Data of measurement within frequency range 9kHz-30MHz are the noise floor or attenuated more than 20dB below the permissible limits or the field strength is too small to be measured, so test data does not present in this report.



Below 1GHz:

Horizontal

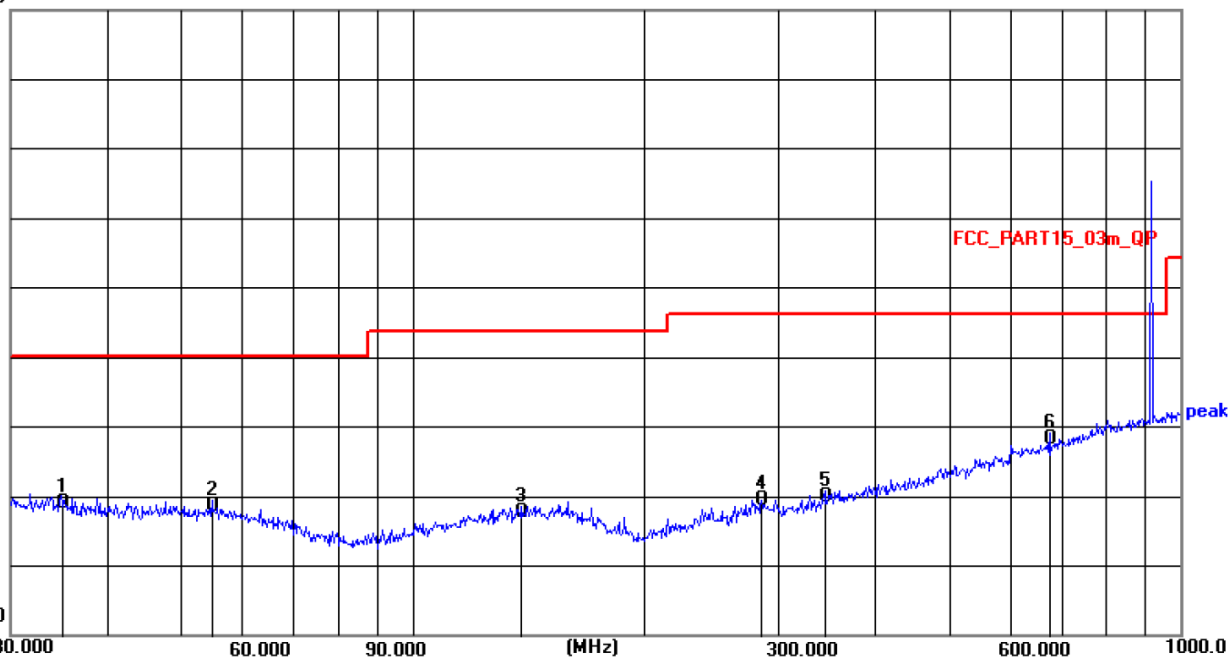


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	42.7495	4.07	14.55	18.62	40.00	21.38	QP
2	90.5374	4.95	10.12	15.07	43.50	28.43	QP
3	136.9391	3.49	14.13	17.62	43.50	25.88	QP
4	272.2776	8.68	14.13	22.81	46.00	23.19	QP
5	341.9786	10.90	15.67	26.57	46.00	19.43	QP
6 *	706.6998	19.12	22.92	42.04	46.00	3.96	QP



Vertical

90.0 dBuV/m

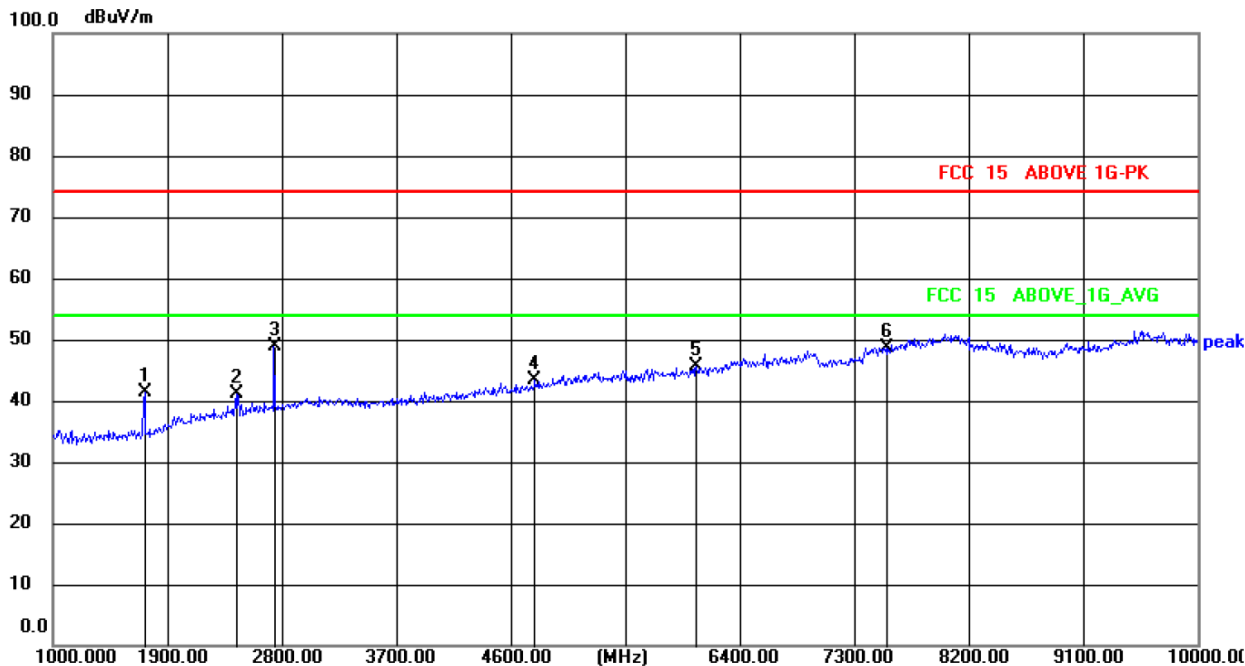


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	34.8822	3.68	15.41	19.09	40.00	20.91	QP
2	54.8348	4.43	14.03	18.46	40.00	21.54	QP
3	138.8734	3.41	14.24	17.65	43.50	25.85	QP
4	284.9766	4.84	14.64	19.48	46.00	26.52	QP
5	344.3855	4.12	15.74	19.86	46.00	26.14	QP
6 *	675.2080	5.78	22.42	28.20	46.00	17.80	QP

Frequency (MHz)	Read Level (dBμV)	polarization	Factor (dB/m)	Peak value (dBμV/m)	Average Limit (dBμV/m)	Margin (dB)
915	56.13	H	26.27	82.4	93.98	11.58
915	47.71	V	26.27	73.98	93.98	20



Above 1G:
Horizontal

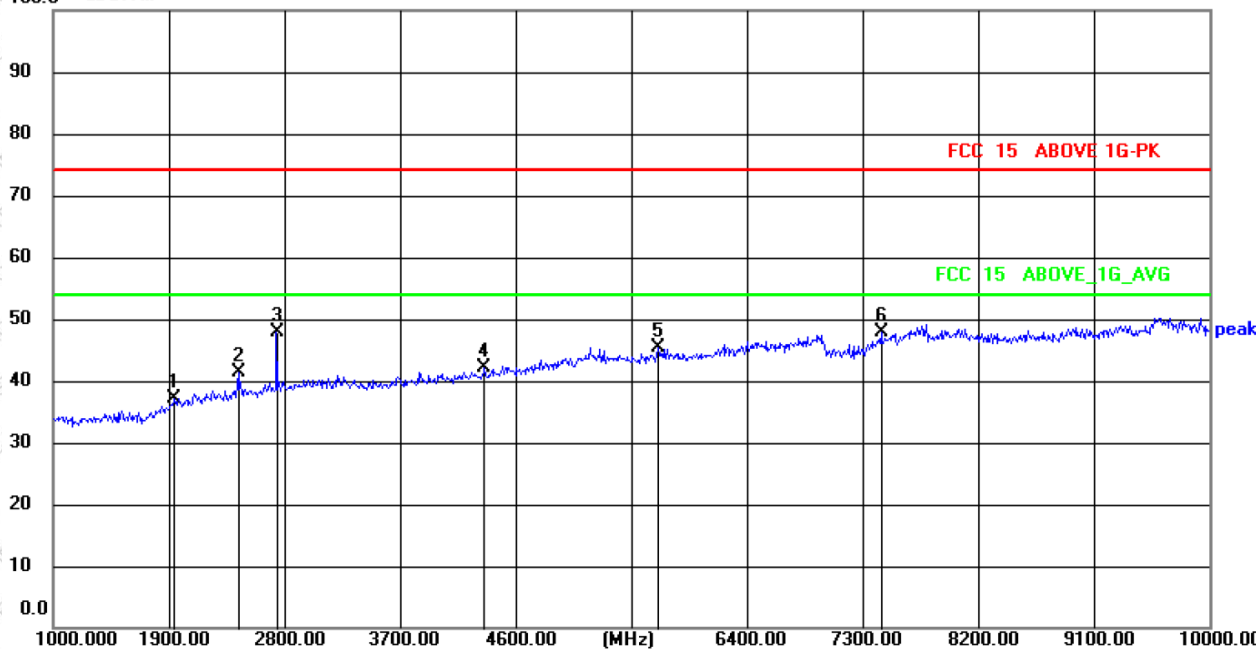


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1720.000	65.97	-24.70	41.27	74.00	32.73	peak
2	2440.000	63.33	-22.29	41.04	74.00	32.96	peak
3 *	2746.000	70.28	-21.48	48.80	74.00	25.20	peak
4	4789.000	62.30	-18.92	43.38	74.00	30.62	peak
5	6058.000	62.36	-16.79	45.57	74.00	28.43	peak
6	7552.000	60.57	-11.89	48.68	74.00	25.32	peak



Vertical

100.0 dBuV/m

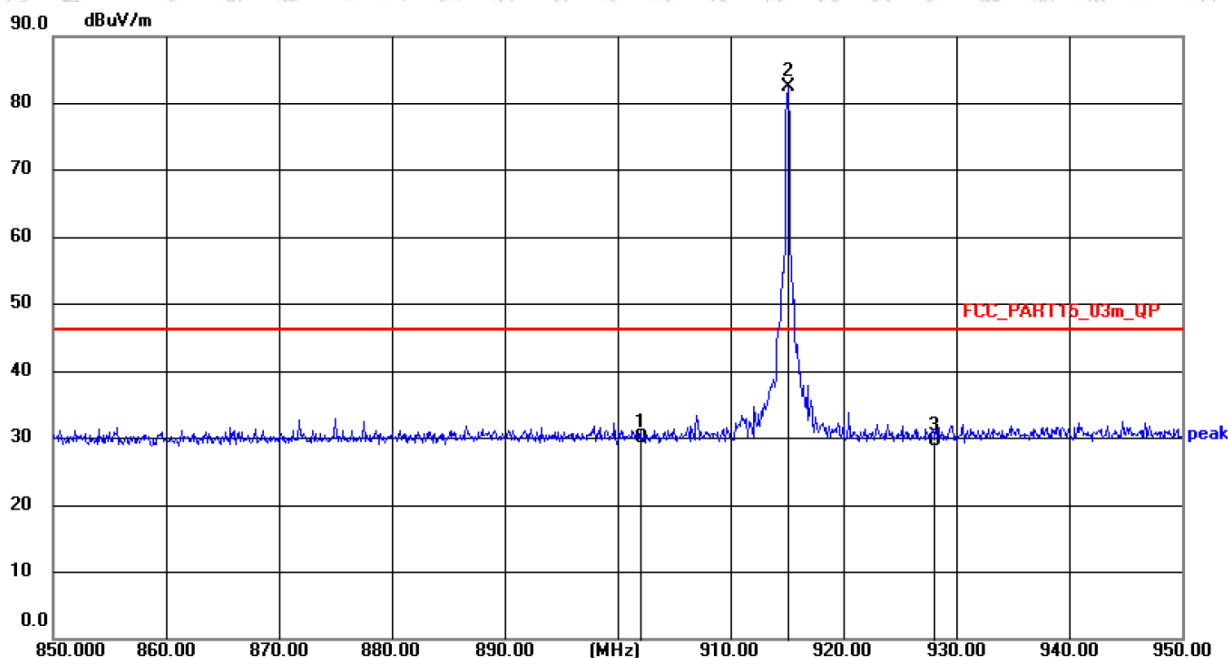


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1945.000	60.65	-23.56	37.09	74.00	36.91	peak
2	2440.000	63.61	-22.29	41.32	74.00	32.68	peak
3	2746.000	69.36	-21.48	47.88	74.00	26.12	peak
4	4357.000	62.34	-20.16	42.18	74.00	31.82	peak
5	5707.000	62.61	-17.14	45.47	74.00	28.53	peak
6 *	7444.000	60.16	-12.16	48.00	74.00	26.00	peak

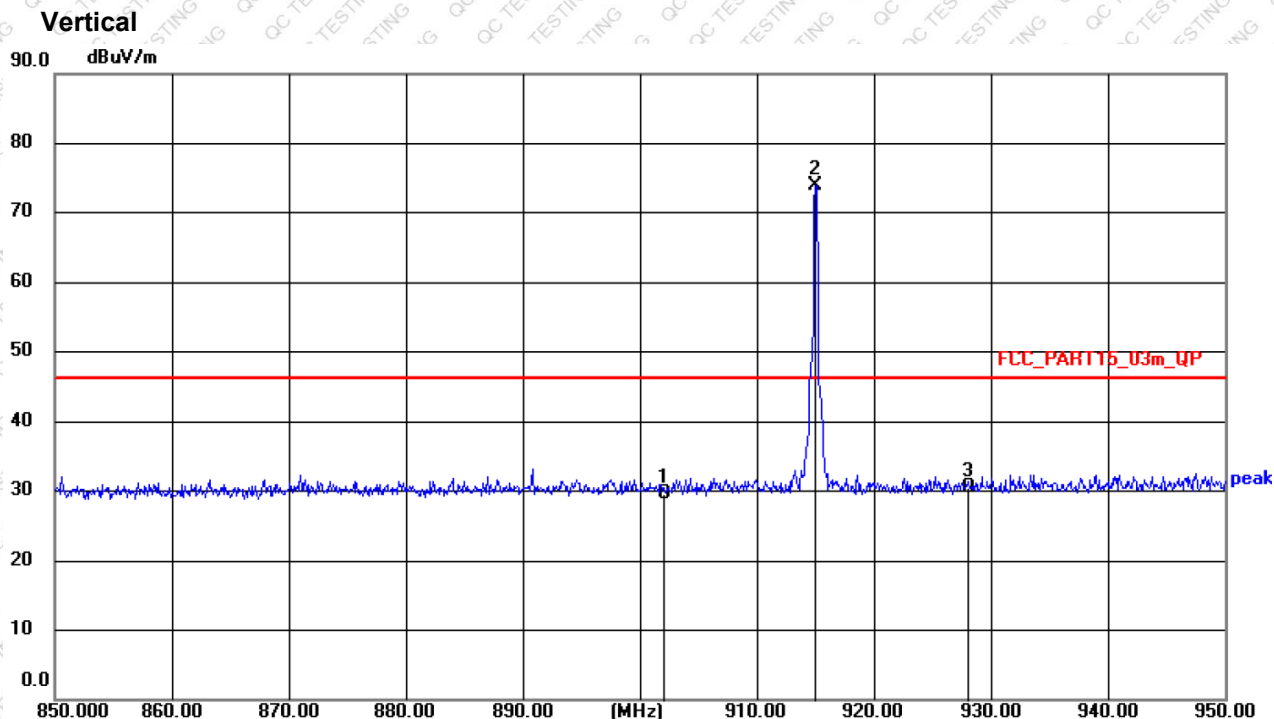


Band Edge:

Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	902.0000	3.97	26.14	30.11	46.00	15.89	QP
2 *	915.1000	56.13	26.27	82.40	/	/	peak
3	928.0000	3.12	26.38	29.50	46.00	16.50	QP



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	902.0000	3.39	26.14	29.53	46.00	16.47	QP
2 *	915.0000	47.71	26.27	73.98	/	/	peak
3	928.0000	4.08	26.38	30.46	46.00	15.54	QP

Remarks:

1. Level = Receiver Read level + Factor
2. The emission levels of other frequencies are very lower than the limit and not show in test report.
3. If the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement, so AV emission value did not show in above table if the peak value complies with average limit.

6. 20dB Occupy Bandwidth

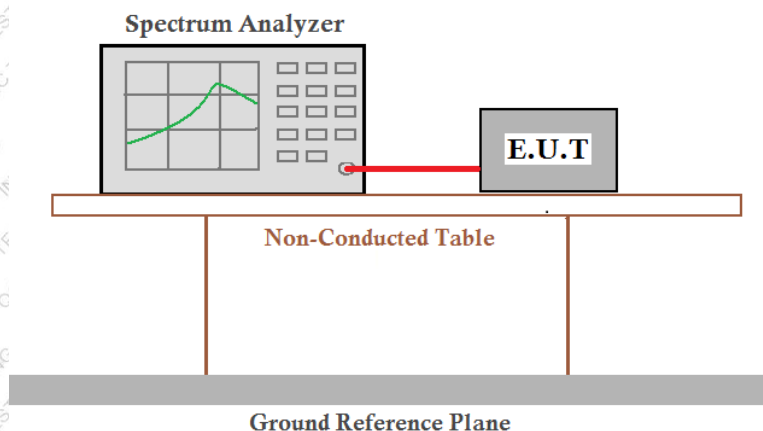
6.1. Applicable Standard

FCC Part15 C Section 15.215

6.2. Limit

N/A

6.3. Test setup



6.4. Test Data

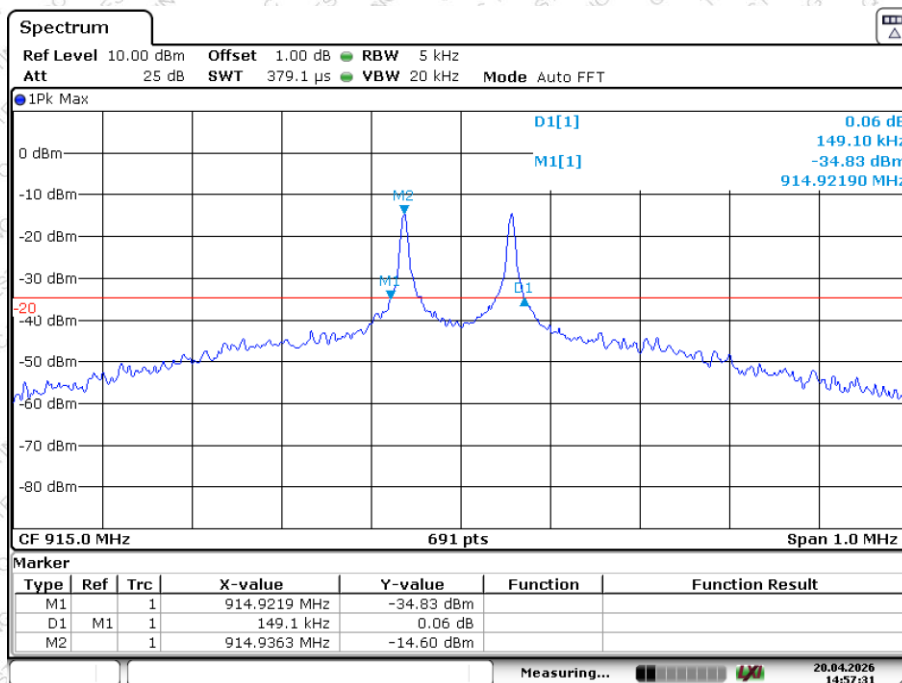
Temperature	25.3 °C	Humidity	50%
ATM Pressure	101kPa	Antenna Gain	0dBi
Test by	Fan Yang	Test result	PASS

Please refer to following table and plots.



Test Frequency (MHz)	-20dB bandwidth (MHz)
915	0.149

Test plot as follows:



Date: 20.APR.2026 14:57:31

----- THE END OF TEST REPORT -----