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FCC PART 15 SUBPART C

FCC PART 15.231

TEST REPORT

FCC ID:2BTT5-LRC-000331**Report No:** CTSL2521220075ER**Product Name:** Remote Control**Main Test Model:** LRC-000331**Series Models:** --**Applicant:** Foshan Yingke Gaobiao Electrical Appliance Co., Ltd

EXECUTIVE SUMMARY

A sample of this product was tested and found to be in compliance with
FCC PART 15C, FCC PART 15 SUBPART C (15.231).

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applicable to presented Test sample.

CTSL Testing (Dongguan) Co., Ltd.

Main company address: Hexing Building, Houjie Avenue, Houjie Road Houjie Town,
Guangdong Province Dongguan City, People's Republic of China

Test Report**FCC ID:2BTT5-LRC-000331**

Applicant Name	Foshan Yingke Gaobiao Electrical Appliance Co., Ltd				
Applicant Address	WuZhuang, HeCun Village, LiShui Town, NanHai District, FoShan City, Guangdong Province, China				
Manufacturer Name	Foshan Yingke Gaobiao Electrical Appliance Co., Ltd				
Manufacturer Address	WuZhuang, HeCun Village, LiShui Town, NanHai District, FoShan City, Guangdong Province, China				
Trade Mark	--				
Product name	Remote Control				
Main Test Model	LRC-000331				
Series Models	--				
Standard	FCC Rules and Regulations Part 15 Subpart C, Section 231				
Test Location	ISO/IEC 17025 by ILAC-MRA is A2LA 7556.01 CTSL Testing (Dongguan) Co., Ltd. Room 112, Building 1, No. 15, Jiaoyuansongshan Hetian Village, Houjie Town Dongguan City, Guangdong, People's Republic of China				
Receipt Date	2025.12.22	Test period	2025.12.12-2025.12.23	Issue Date	2025.12.23
Conclusion	The equipment under test was found to be compliance with the requirements of the standards applied.				
Performs Testing:	Ethan Zhao				
Test Report Reviewer:	Steve Qin				
Test Report Authorizer:	Alan Li				

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Revision History

Rev.	Issue Date	Effect Page	Contents
00	December 23, 2025	N/A	Initial Issue



1. SUMMARY OF TEST RESULTS

<u>FCC Part 15.231, Subpart C</u>			
Standard Section	Test Item	Judgment	Remark
15.207	Conducted Emission	N/A	--
15.209, 15.231(b)	Radiated Emission	PASS	--
15.231(a) (1)	Transmitter time	PASS	--
15.231(c)	20dB Bandwidth	PASS	--
15.231	Duty cycle	PASS	--
15.203	Antenna Requirement	PASS	--

NOTE:

(1) "N/A" denotes test is not applicable in this Test Report

(2) All tests are according to ANSI C63.10-2020

1.1. TEST Test Facilities

EMC A2LA Certificate Number: 7556.01;
 Lab : CTSL Testing (Dongguan) Co., Ltd. has been listed by American Association for Laboratory Accreditation to perform electromagnetic emission measurement.
 The 3m-Semi anechoic test site fulfils CISPR 16-1-4 according to ANSI C63.10 and CISPR 16-1-4:2010.

FCC-Registration No.: 0037614732;
 Test Firm Registration Number:750639;
 CTSL Testing (Dongguan) Co., Ltd. has been listed on the US Federal Communications Commission list of test facilities recognized to perform electromagnetic emissions measurements.

Industry Canada Registration Number. Is: 34801;
 CAB identifier: CN0192;
 CTSL Testing (Dongguan) Co., Ltd. The Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing.

Name of Firm: CTSL Testing (Dongguan) Co.,Ltd.
 EMC test location/satellite location:
 Room 112, Building 1, No. 15, Jiaoyuansongshan Hetian Village, Houjie Town Dongguan City, Guangdong, People's Republic of China City, Guangdong, China

1.2.MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expended 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	Uncertainty
1	RF output power, conducted	± 0.71 dB
2	Unwanted Emissions, conducted	± 2.98 dB
3	Conducted Emission (9KHz-150KHz)	± 4.13 dB
4	All emissions radiated (9KHz -30MHz)	± 3.1 dB
5	Conducted Emission (150KHz-30MHz)	± 4.74 dB
6	All emissions,radiated(<1G) 30MHz-1000MHz	± 3.2 dB
7	All emissions,radiated (1GHz -18GHz)	± 3.66 dB
8	All emissions,radiated (18GHz -40GHz)	± 4.31 dB
9	Occupied bandwidth	± 0.3 dB

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF THE EUT

Product Name	Remote Control
Trade Name	N/A
Model Name	LRC-000331
Series Model	N/A
Model Difference	N/A
Frequency	433.92MHz
Modulation	ASK
Antenna type	PCB antenna
Power Supply	DC 3V
Battery	DC 3V
Hardware version number	V1.0
Software version number	V1.0
Connecting I/O Port(s)	Please refer to the User's Manual

Note:

- For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.
- Table for Filed Antenna

Ant	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	NOTE
1	N/A	SPA Bubble	PCB antenna	N/A	0 dBi	Antenna

2.2 DESCRIPTION OF THE TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Configuration and peripherals



Test environment conditions

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

Temperature range: 21-25°C

Humidity range: 40-75%

Pressure range: 86-106kPa

2.3 DESCRIPTION OF necessary accessories AND 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.

Necessary accessories

Item	Equipment	Mfr/Brand	Model/Type No.	Serial No.	Note

Support units

Item	Equipment	Mfr/Brand	Model/Type No.	Serial No.	Note

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in 『Length』 column.
- (3) “YES” is means “shielded” “with core”; “NO” is means “unshielded” “without core”.

2.4 Test Equipment

Radiation Test equipment

For Conducted Emission Test						
Equipment	Manufacturer	Model No.	Serial No.	Calibration Body	Last Cal.	Next Cal.
EMI Test Receiver	Rohde & Schwarz	ESCI 3	AT005	GUANGZHOU NEM	May 16,25	May 15,26
LISN	Rohde & Schwarz	ENV216	AT006	LISAI	July 31,25	July 30,26
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	AT007	CCIC (Shenzhen)	July 10,25	July 09,26
CE Cable	Times Microwave	LMR195UF-N MNM-1.50M	AT041	GUANGZHOU NEM	May 16,25	May 15,26
Test Software	FARAD	EZ-EMC Ver.3A1.1+	N/A	N/A	N/A	N/A

For Radiated Emission Test (9kHz-30MHz)						
Equipment	Manufacturer	Model No.	Serial No.	Calibration Body	Last Cal.	Next Cal.
EMI TestReceiver	Rohde& Schwarz	ESCI 7	AT001	Ti Group	July 31,24	July 30,26
Active Loop Antenna	ZHINAN	ZN30900C	AT063	LISAI	Aug 03,24	Aug 02,26
Test Software	FARAD	EZ-EMC Ver.3A1.1+	N/A	N/A	N/A	N/A
9kHz-30MHz Cable	Times Microwave	LMR195UF-N MNM-9M	AT045	GUANGZHOU NEM	May 16,25	May 15,26

For Radiated Emissions Test (30MHz-1000MHz)						
Equipment	Manufacturer	Model No.	Serial No.	Calibration Body	Last Cal.	Next Cal.
EMI Test Receiver	Rohde& Schwarz	ESCI 7	AT001	Ti Group	Jun 12,25	Jun 11,26
Trilog-Broadband Antenna	SCHWARZBECK	VULB 9168	AT002	LISAI	Aug 03,24	Aug 02,26
Test Software	FARAD	EZ-EMC Ver.3A1.1+	N/A	N/A	May 16,25	May 15,26
30-1000MHz Cable	Times Microwave Systems	LMR195UF-N MRNMR-3.00 M+ LMR400UF-N MNM-3.00M+ LMR400UF-N MNM-3.00M	AT042+AT043+AT044	GUANGZHOU NEM	May 16,25	May 15,26

For Radiated Emission Test (Above 1000MHz)						
Equipment	Manufacturer	Model No.	Serial No.	Calibration Body	Last Cal.	Next Cal.
Horn Antenna 1-18G	SCHWARZBECK	BBHA 9120 D	AT003	Shenzhen Academy of Metrology & Quality Inspection	Sep 23,24	Sep 22,26
Horn Antenna 18-40GHz	XIBAO	XB-WDB18-40K	AT064	LISAI	Feb 25,25	Feb 24,26
Broadband Preamplifier	SCHWARZBECK	BBV 9718 D	AT004	CCIC (Shenzhen)	July 10,25	July 9,26
Low Noise Amplifier	MWRFTest	DLA8-18-40G-2078	AT065	GUANGZHOU NEM	July 10,25	July 9,26
Spectrum Analyzer 40G	Keysight	N9020B	AT066	GUANGZHOU NEM	May 13,25	May 12,26
Spectrum Analyzer 26.5G	Keysight	N9020A	AT050	GUANGZHOU NEM	Jun 12,25	Jun 11,26
Radio switching unit	TiGroup	SU319	AT055	N/A	N/A	N/A
Filtering unit	TiGroup	SU319F	AT056	N/A	N/A	N/A
Test Software	BL	BL410-E V25.5 en	N/A	N/A	N/A	N/A
Above 1GHz Cable	Times Microwave Systems	SFT205-NMN M-7.0M+ SFT205-NMN M-2.0M	AT057+ AT058	N/A	N/A	N/A

For Connect EUT Antenna Terminal Test (RF Test system)						
Equipment	Manufacturer	Model No.	Serial No.	Calibration Body	Last Cal.	Next Cal.
Spectrum analyzer	Keysight	N9020A	AT050	GUANGZHOU NEM	Jun 12,25	Jun 11,26
Analog signal source	Keysight	N5173B	AT051	GUANGZHOU NEM	Jun 12,25	Jun 11,26
WIDEBAND RADIO COMMUNICATION TESTER	Rohde&Schwarz	CMW500	AT052	GUANGZHOU NEM	Jun 12,25	Jun 11,26
Power probe unit	Ti Group	SU319P	AT053	GUANGZHOU NEM	Jun 12,25	Jun 11,26
Switch unit	Ti Group	SU319S	AT054	N/A	N/A	N/A
Test Software	BL	BL410R 3.5.2.621	N/A	N/A	N/A	N/A

Remark: The power sensor is integrated into the Power Probe unit

3. CONDUCTED EMISSION MEASUREMENT

3.1 LIMIT

Operating frequency band. In case the emission fall within the restricted band specified on Part 207(a) limit in the table below has to be followed.

FREQUENCY (MHz)	Conducted Emissionlimit (dBuV)	
	Quasi-peak	Average
0.15 -0.5	66 - 56 *	56 - 46 *
0.50 -5.0	56.00	46.00
5.0 -30.0	60.00	50.00

Note:

The tighter limit applies at the band edges.

The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

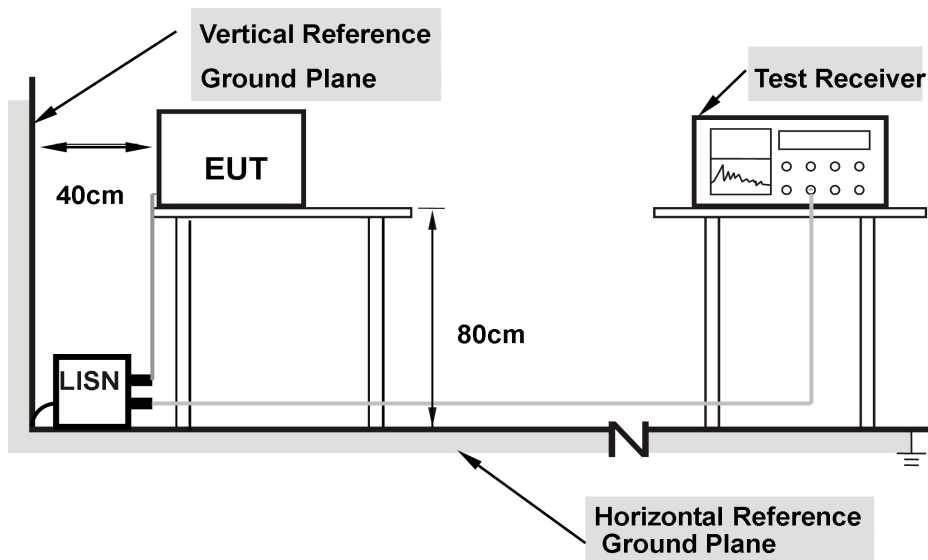
3.2 TEST PROCEDURE

The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

- The EUT was 0.8 meters from the horizontal ground plane and 0.4 meters from the vertical ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- LISN at least 80 cm from nearest part of EUT chassis.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

3.3 TEST SETUP



Note: 1.Support units were connected to second LISN.

2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

3.4 TEST RESULTS

Temperature:	24.5℃	Relative Humidity:	50%
Test Mode:	N/A	Test Voltage:	N/A
Result:	N/A	Result:	N/A

Note: This product is battery powered and is not suitable for this project.

4. RADIATED EMISSION MEASUREMENT

4.1 limit

In any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the Restricted band specified on Part15.205(a)&209(a) limit in the table and according to ANSI C63.10-2020 below has to be followed

LIMITS OF RADIATED EMISSION MEASUREMENT (0.009mhz - 1000mhz)

Frequencies (MHz)	Field Strength (micorvolts/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

LIMITS OF RADIATED EMISSION MEASUREMENT (1GHz-25 GHz)

FREQUENCY (MHz)	(dBuV/m) (at 3M)	
	PEAK	AVERAGE
Above 1000	74	54

LIMITS OF FIELD STRENGTH OF THE FUNDAMENTAL SIGNAL

FREQUENCY (MHz)	(dBuV/m) (at 3M)	
	PEAK	AVERAGE
433.92	100.83	80.83

Note: (1) The emission limits shown in the above table are based on measurements employing a CISPR QP detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000MHz. Radiated emissions limits in these three bands are based on measurements employing an average detector

(2) At frequencies below 30MHz, measurement may be performed at a distance closer then that specified, and the limit at closer measurement distance can be extrapolated by below formula:

$\text{Limit}_{3m}(\text{dBuV/m}) = \text{Limit}_{300m}(\text{dBuV/m}) + 40\text{Log}(300m/3m) = \text{Limit}_{300m}(\text{dBuV/m}) + 80$

$\text{Limit}_{3m}(\text{dBuV/m}) = \text{Limit}_{30m}(\text{dBuV/m}) + 40\text{Log}(30m/3m) = \text{Limit}_{30m}(\text{dBuV/m}) + 40$

(3) Limit for this EUT

All the emissions appearing within 15.205 restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions include fundamental emission shall not exceed FCC 15.231 section (b) limit of comply with FCC 15.209 limit which permit higher emission level.

[Where F is the frequency in MHz, the formulas for calculating the maximum permitted fundamental field strengths are as follows: for the band 130-174 MHz, $\mu\text{V/m}$ at 3 meters = $56.81818(F) - 6136.3636$; for the band 260-470 MHz, $\mu\text{V/m}$ at 3 meters = $41.6667(F) - 7083.3333$. The maximum permitted unwanted emission level is 20 dB below the maximum permitted fundamental level.]

4.2 TEST PROCEDURE

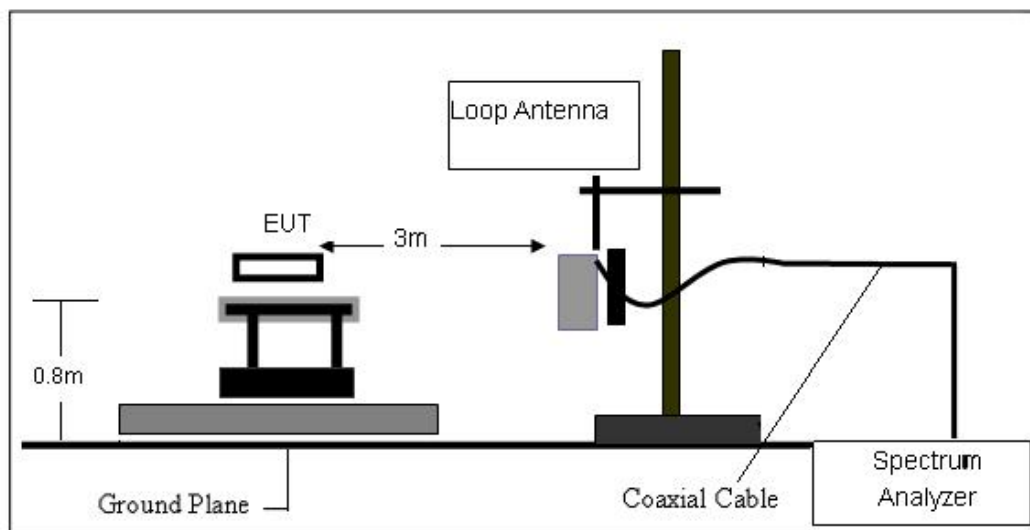
- a. The measuring distance of at 3 m shall be used for measurements at frequency 0.009MHz up to 1GHz, and above 1GHz.
- b. The EUT was placed on the top of a rotating table 0.8 meters (above 1GHz is 1.5 m) above the ground at a 3 meter anechoic chamber test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment shall be 0.8 m (above 1GHz is 1.5 m); the height of the test antenna shall vary between 1 m to 4 m. horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then QuasiPeak detector mode re-measured.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos.

Note:

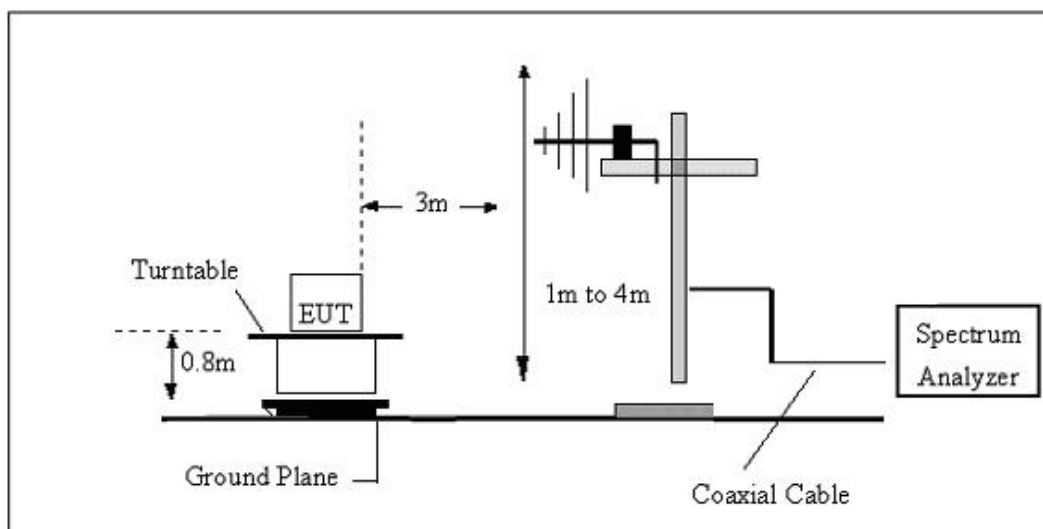
Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

4.3 TEST SETUP

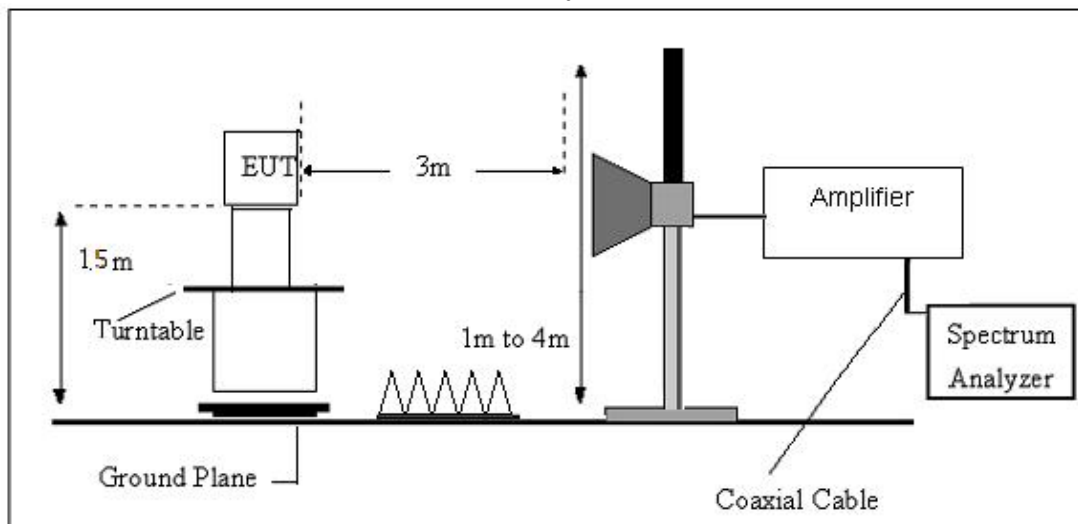
(A) Radiated Emission Test-Up Frequency Below 30MHz



(B) Radiated Emission Test-Up Frequency 30MHz~1GHz



(C) Radiated Emission Test-Up Frequency Above 1GHz



4.4 TEST RESULTS

Temperature:	24.4℃	Relative Humidity:	58%
Test Mode:	ASK	Test Voltage:	DC 3V

for field strength of the fundamental signal

Peak value

Frequency (MHz)	Peak Level(dBuV/m)	Peak limit (dBuV/m)	Over Limit(dB)	Polarization
433.92	83.86	100.83	-16.97	H
433.92	76.24	100.83	-24.59	V

Average value

Frequency (MHz)	AV Level (dBuV/m)	AV limit (dBuV/m)	Over Limit (dB)	Polarization
433.92	71.35	80.83	-9.48	H
433.92	64.78	80.83	-16.05	V

Note: av Level=pk level +PDCF

Duty cycle factor= -12.51dB

For spurious emission

(9KHz-30MHz)

Freq.	Reading	Limit	Margin	State	Test Result
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F	
--	--	--	--	--	PASS
--	--	--	--	--	PASS

Note:

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

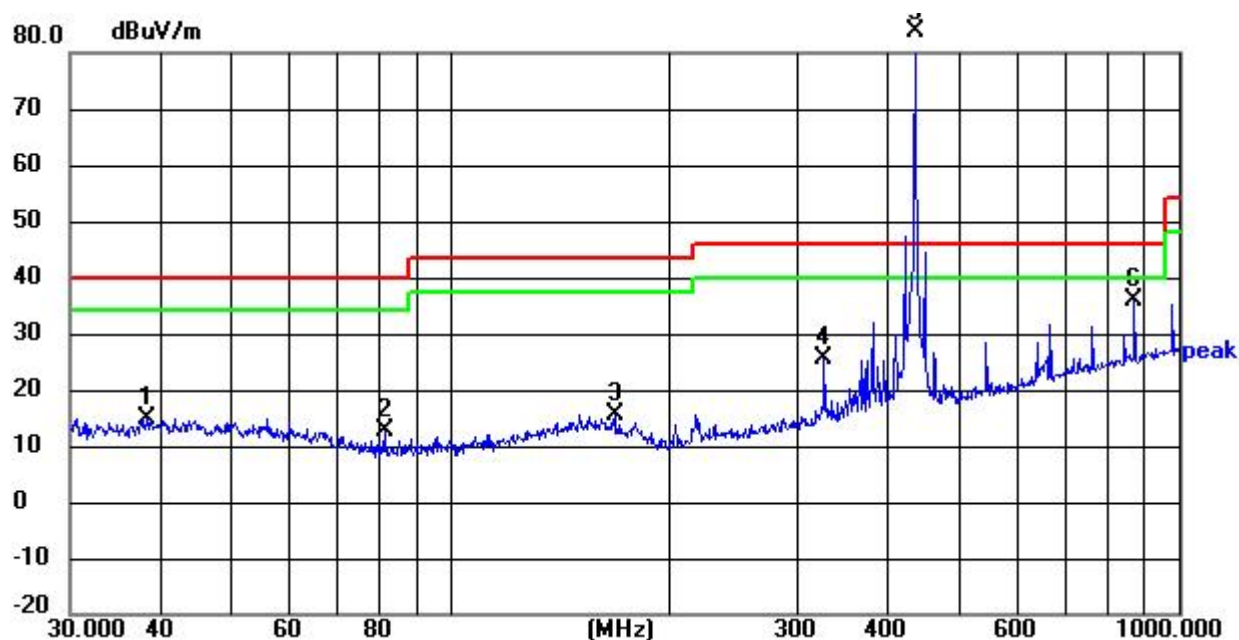
Distance extrapolation factor =40 log (specific distance/test distance)(dB);

Limit line = specific limits (dBuv) + distance extrapolation factor.

30MHz~1000MHz

Temperature:	24.4°C	Relative Humidity:	58%
Test Voltage:	DC 3V	Phase:	Horizontal
Test Mode:	ASK		

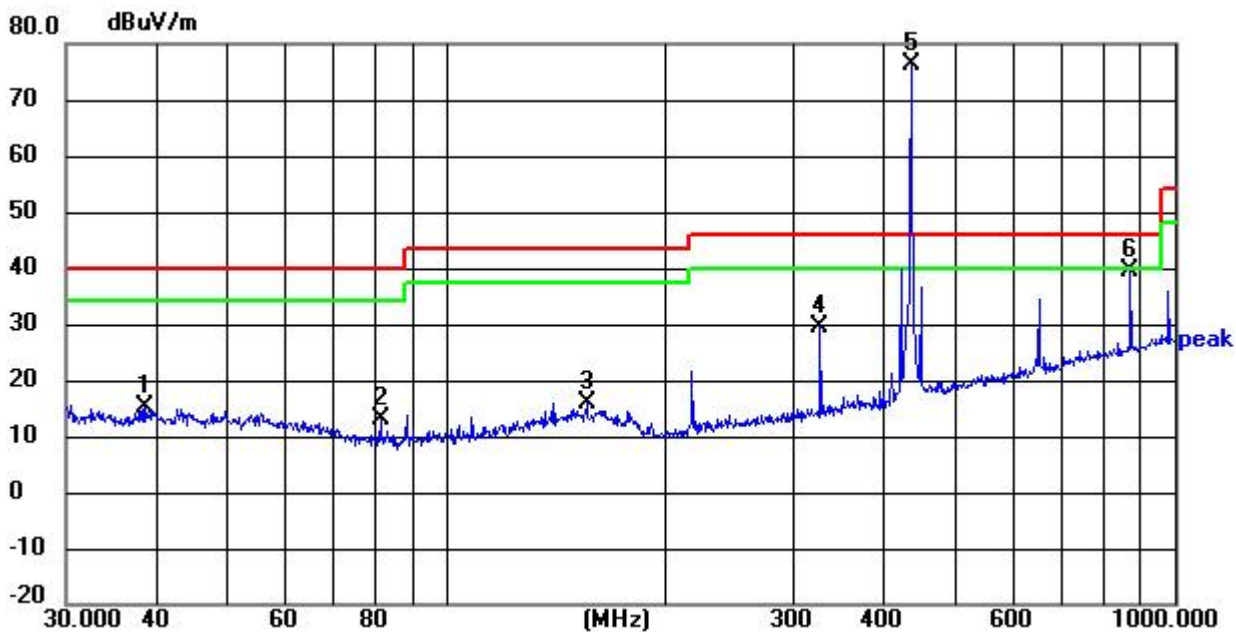
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	38.3462	26.64	-11.72	14.92	40.00	-25.08	peak
2	81.2116	29.07	-16.53	12.54	40.00	-27.46	peak
3	167.8240	27.48	-11.96	15.52	43.50	-27.98	peak
4	325.5957	36.47	-11.01	25.46	46.00	-20.54	peak
5	433.9200	92.04	-8.18	83.86	N/A	N/A	peak
6	869.1300	36.43	-0.59	35.84	N/A	N/A	peak



1. Result = Reading + Corrected Factor Note :

Temperature:	24.4°C	Relative Humidity:	58%
Test Voltage:	DC 3V	Phase:	Vertical
Test Mode:	ASK		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	38.6160	26.90	-11.71	15.19	40.00	-24.81	peak
2	81.2116	29.69	-16.53	13.16	40.00	-26.84	peak
3	155.9100	27.24	-11.34	15.90	43.50	-27.60	peak
4	325.5957	40.49	-11.01	29.48	46.00	-16.52	peak
5	433.9200	84.42	-8.18	76.24	N/A	N/A	peak
6	869.1300	40.16	-0.59	39.57	N/A	N/A	peak



1. Result = Reading + Corrected Factor Note :

Freq. (MHz)	Ant.PoL H/V	Emission Level(dBuV/m)		Limit 3m(dBuV/m)		Margin(dB)	
		PK	AV	PK	AV	PK	AV
869.13	V	45.52	33.38	80.82	60.82	-35.30	-27.44
1301.76	V	47.84	35.97	80.82	60.82	-32.98	-24.85
1735.68	V	49.03	37.16	80.82	60.82	-31.79	-23.66
2169.60	V	49.76	37.89	80.82	60.82	-31.06	-22.93
2603.52	V	49.42	37.55	80.82	60.82	-31.40	-23.27
869.13	H	51.48	39.56	80.82	60.82	-29.34	-21.26
1301.76	H	50.65	38.78	80.82	60.82	-30.17	-22.04
1735.68	H	49.71	37.84	80.82	60.82	-31.11	-22.98
2169.60	H	49.13	37.26	80.82	60.82	-31.69	-23.56
2603.52	H	49.8	37.93	80.82	60.82	-31.02	-22.89

Note: 1. Final Test Level =Receiver Reading - Correct Factor

Correct Factor = Preamplifier Factor– Antenna Factor–Cable Factor

2: For emissions above 1GHz. If peak results comply with AV limit, AV Result is deemed to comply with AV limit.

3. Measuring frequencies from 9k~10th harmonic , No emission found between lowest internal used/generated frequency to 30MHz.

4.The amplitude of spurious emissions which are attenuated more than 20 dB below the limits are not reported.

5. TRANSMITTER TIME

5.1 limit

A transmitter activated automatically shall cease transmission within 5 seconds after activation.

5.2 TEST PROCEDURE

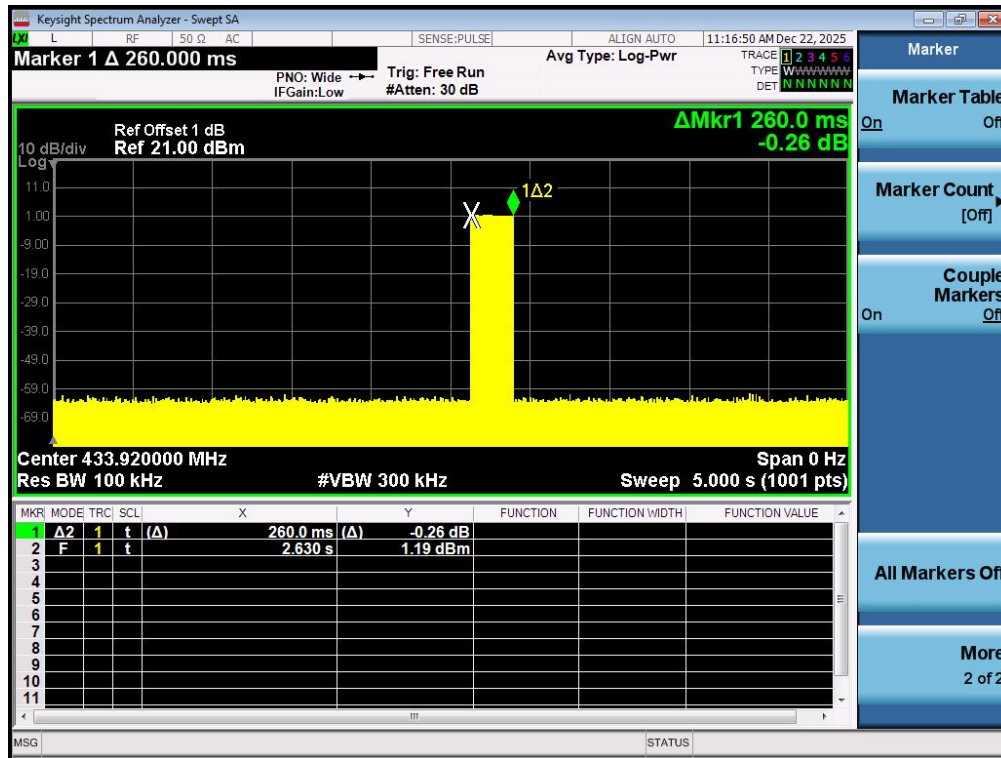
- a. The EUT's RF signal was coupled to spectrum analyzer by antenna connected to spectrum analyzer.
- b. Set the spectrum to zero span mode, and centered of EUT frequency.
- c. Measure the stop transmitting time after release EUT button

5.3 TEST SETUP



5.4 TEST RESULTS

Frequency(MHz)	TRANSMITTER TIME	Limit	Result
433.92	0.26s	$\leq 5s$	Pass



6. 20 DB BANDWIDTH TEST

6.1 limit

The bandwidth of the emission shall be no wider than 0.25% of the center frequency of devices operation above 70MHz and below 900MHz.

6.2 TEST PROCEDURE

- a. Connect EUT' s antenna output to spectrum analyzer by RF cable.
The bandwidth of the fundamental frequency was measured by spectrum analyzer with 3kHz RBW and 10kHz VBW. The 20dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20dB
- b.

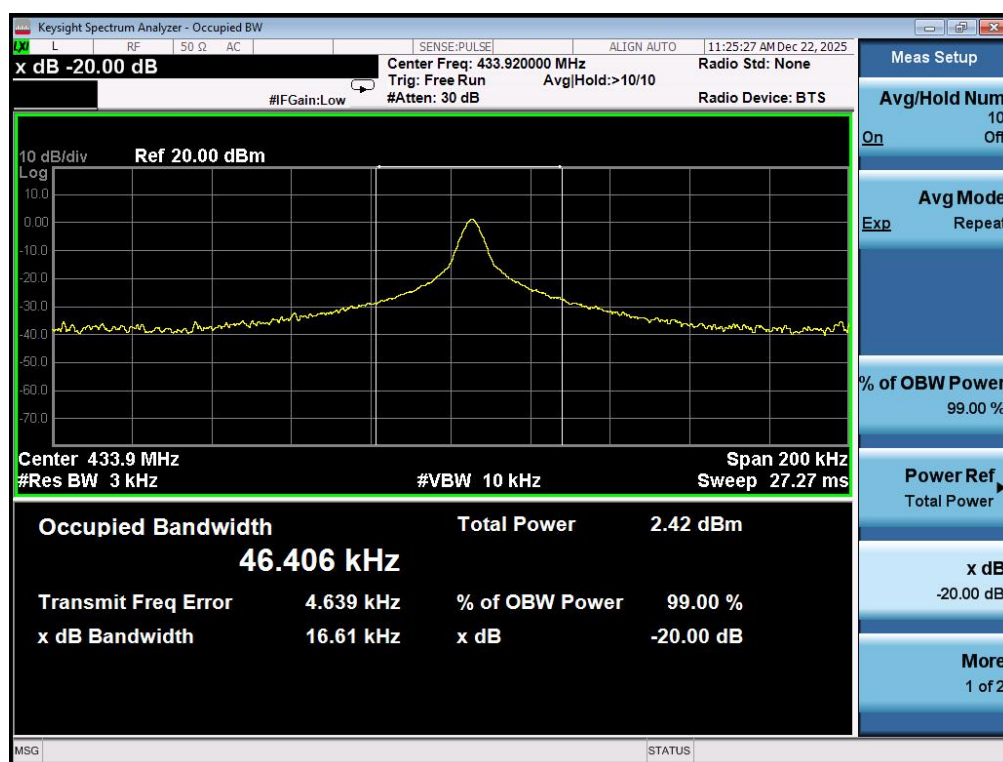
6.3 TEST SETUP



6.4 TEST RESULTS

Temperature:	24.5°C	Relative Humidity:	50%
Test Mode:	ASK	Test Voltage:	DC 3V

Frequency	20dB Bandwidth (KHz)	Limit(KHz)	Result
433.92 MHz	16.61	1084.8	PASS



7. DUTY CYCLE

7.1 limit

None: for reporting purposes only.

7.2 TEST PROCEDURE

- a. Set the Centre frequency of the spectrum analyzer to the transmitting frequency;
Set the span=0MHz, RBW=1MHz, VBW=1MHz, Sweep time=200.00ms;
Trace mode = Single hold

7.3 TEST SETUP



7.4 TEST RESULTS

Frequency	Duty Cycle
433.92 MHz	25.49%

The duty cycle is simply the on time divided by the period:

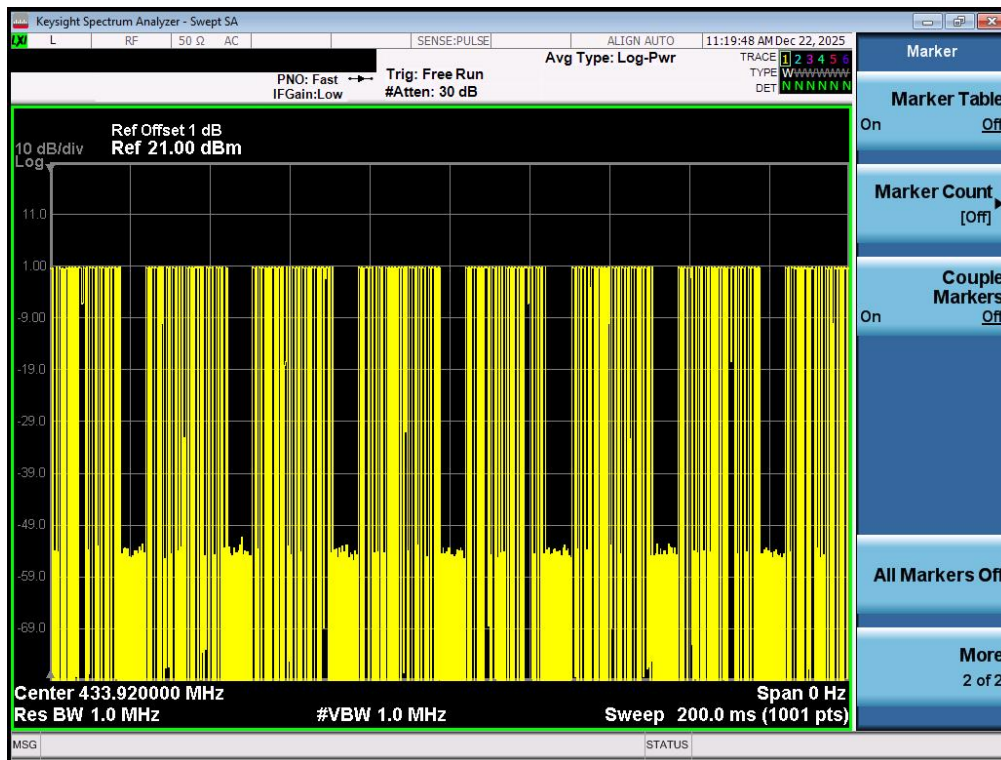
The duration of one cycle = 26.52 ms

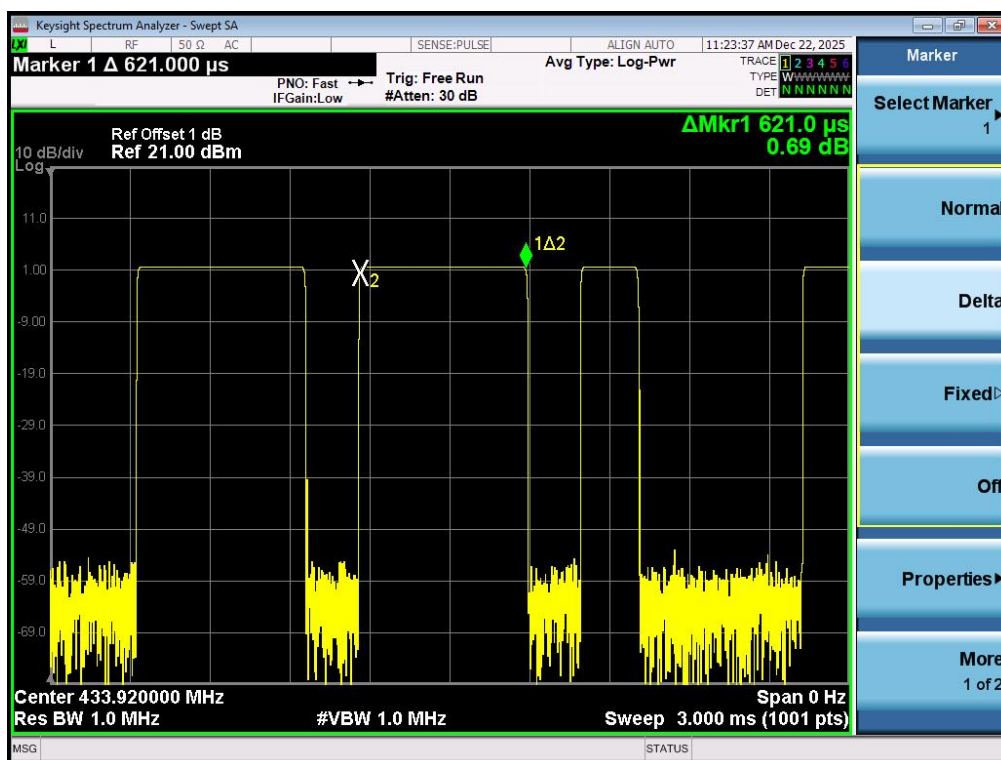
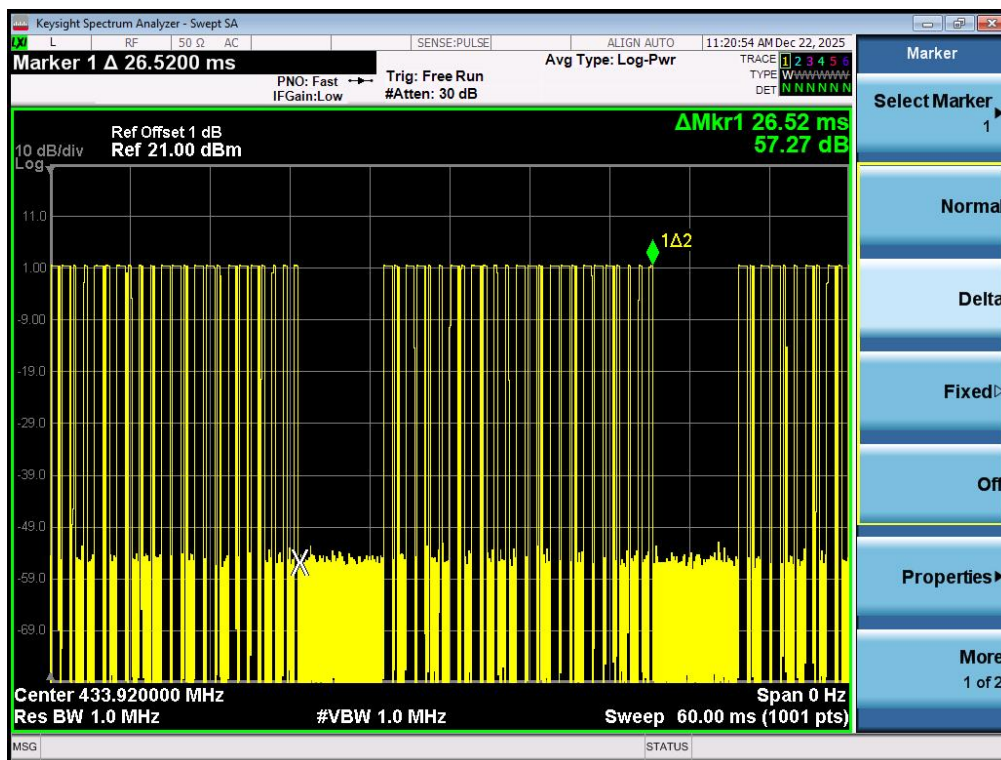
Effective period of the cycle = $0.621 \times 8 + 0.204 \times 8 = 6.6\text{ms}$

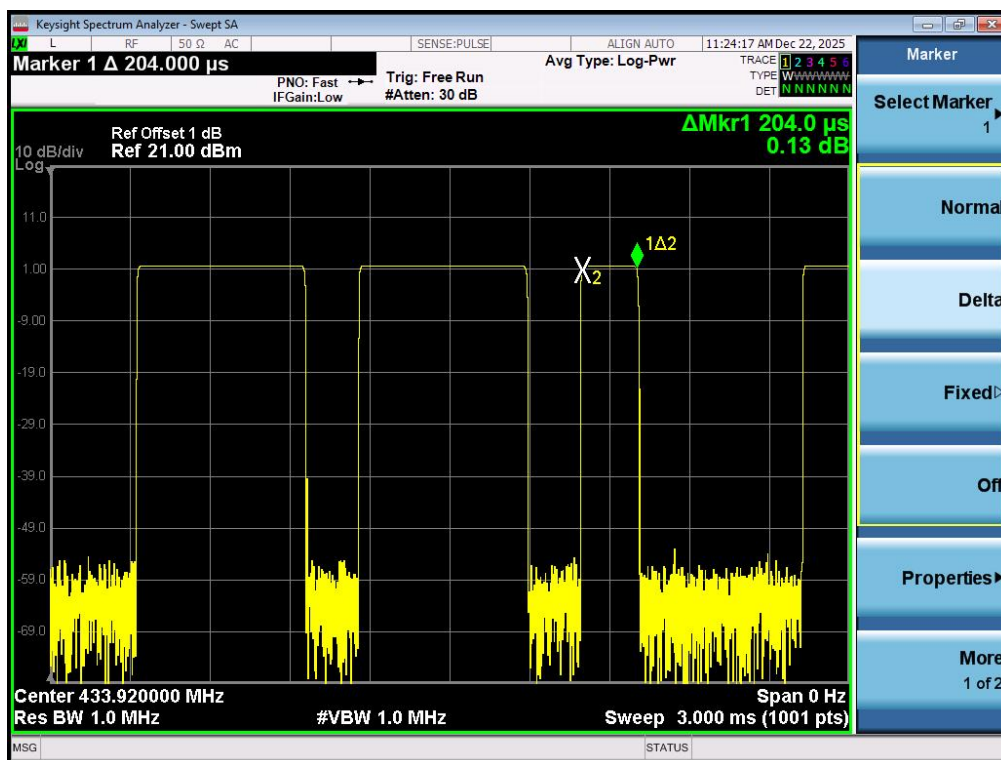
Duty Cycle = $6.6\text{ms} / 26.52\text{ms} = 0.2489 = 24.89\%$

Duty Cycle Factor(dB) = $20\log(\text{duty cycle}(\%)) = -12.08\text{dB}$

Original test data







8. ANTENNA REQUIREMENT

8.1 STANDARD REQUIREMENT

15.203 requirement: For intentional device, according to 15.203: 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.

8.2 EUT ANTENNA

The antennas used for this product are PCB antenna and other than that furnished by the responsible party shall be used with the device, the maximum peak gain of the transmit antenna is 0dBi.

XXXXXXXXEND OF THE REPORTXXXXXXXX