

# FCC/IC REPORT

**Applicant:** Remote Tech LLC

**Address of Applicant:** 310 ALDER RD, DOVER DE 19904 USA

## Equipment Under Test (EUT)

**Product Name:** keyless transmitter

**Model No.:** RT-MOZB

**FCC ID:** 2AOKM-TY7

**Canada IC:** 24223- TY7

**Applicable standards:** FCC CFR Title 47 Part 15 Subpart C Section 15.231

RSS-Gen Issue 5 March 2019 Amendment 1

RSS-210 Issue 9 August 2016 Annex A Section A.1

**Date of sample receipt:** 05 Dec., 2019

**Date of Test:** 06 Dec., to 13 Dec., 2019

**Date of report issue:** 16 Dec., 2019

**Test Result:** PASS\*

\* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:



Bruce Zhang  
Laboratory Manager

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the CCIS product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

This report may only be reproduced and distributed in full. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards.

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## 2 Version

Version No.	Date	Description
00	16 Dec., 2019	Original

**Prepared By:**

  
YT Yang  
Test Engineer

**Date:**

16 Dec., 2019

**Check By:**

  
Winner Zhang  
Project Engineer

**Date:**

16 Dec., 2019

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## 4 Test Summary

Test Item	Test Standard Section		Result
	FCC	IC	
Antenna requirement	15.203	RSS-GEN 6.8	Pass
Field strength of the fundamental signal	15.231 (b)	RSS-210 Annex A Section A.1.2 (a)	Pass
Spurious emissions	15.231 (b)/15.209	RSS-210 Annex A Section A.1.2 (b)	Pass
20dB Bandwidth	15.231 (c)	RSS-210 Annex A Section A.1.3	Pass
Duration time	15.231 (a)(1)	RSS-210 Annex A Section A.1.1 (a)	Pass
Frequency stability	/	RSS-GEN Section 8.11	Pass
Conducted Emission	15.207	RSS-GEN Section 8.8	N/A

**Remarks:**

1. Pass: The EUT complies with the essential requirements in the standard.
2. N/A: The EUT not applicable of the test item.
3. The cable insertion loss used by "RF Output Power" and other conduction measurement items is 0.5dB (provided by the customer).

<b>Test Method:</b>	ANSI C63.4-2014 ANSI C63.10-2013
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## 5 General Information

### 5.1 Client Information

Applicant:	Remote Tech LLC
Address:	310 ALDER RD, DOVER DE 19904 USA
Manufacturer:	Remote Tech LLC
Address:	310 ALDER RD, DOVER DE 19904 USA

### 5.2 General Description of E.U.T.

Product Name:	keyless transmitter
Model No.:	RT-MOZB
Operation Frequency:	312.2MHz
Channel numbers:	1
Modulation type:	ASK
Antenna Type:	PCB antenna
Antenna gain:	0 dBi
Power supply:	DC 3V (CR2032 battery)
Test Sample Condition:	The test samples were provided in good working order with no visible defects.

### 5.3 Test mode

Transmitting mode:	Keep the EUT in transmitting mode with modulation (new battery used)					
<b>Pre-Test Mode:</b>						
CCIS has verified the construction and function in typical operation, The EUT was placed on three different polar directions; i.e. X axis, Y axis, Z axis. which was shown in this test report and defined as follows:						
Axis	X	Y	Z			
Field Strength(dBuV/m)	69.87	68.49	68.53			
<b>Final Test Mode:</b>						
According to ANSI C63.4 standards, the test results are both the "worst case" and "worst setup": X axis (see the test setup photo)						

### 5.4 Description of Support Units

N/A

### 5.5 Measurement Uncertainty

Parameters	Expanded Uncertainty
Radiated Emission (9kHz ~ 30MHz)	±3.12 dB (k=2)
Radiated Emission (30MHz ~ 1000MHz)	±4.32 dB (k=2)
Radiated Emission (1GHz ~ 18GHz)	±5.38 dB (k=2)
Radiated Emission (18GHz ~ 40GHz)	±3.36 dB (k=2)

### 5.6 Additions to, deviations from or exclusions from the method

No

## 5.7 Laboratory Facility

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

- **FCC - Designation No.: CN1211**

Shenzhen Zhongjian Nanfang Testing Co., Ltd. has been accredited as a testing laboratory by FCC(Federal Communications Commission). The test firm Registration No. is 727551.

- **ISED – CAB identifier.: CN0021**

The 3m Semi-anechoic chamber of Shenzhen Zhongjian Nanfang Testing Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.

- **CNAS - Registration No.: CNAS L6048**

Shenzhen Zhongjian Nanfang Testing Co., Ltd. is accredited to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L6048.

- **A2LA - Registration No.: 4346.01**

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 General requirements for the competence of testing and calibration laboratories. The test scope can be found as below link: <https://portal.a2la.org/scopepdf/4346-01.pdf>

## 5.8 Laboratory Location

Shenzhen Zhongjian Nanfang Testing Co., Ltd.

Address: No. B-C, 1/F., Building 2, Laodong No.2 Industrial Park, Xixiang Road,

Bao'an District, Shenzhen, Guangdong, China

Tel: +86-755-23118282, Fax: +86-755-23116366

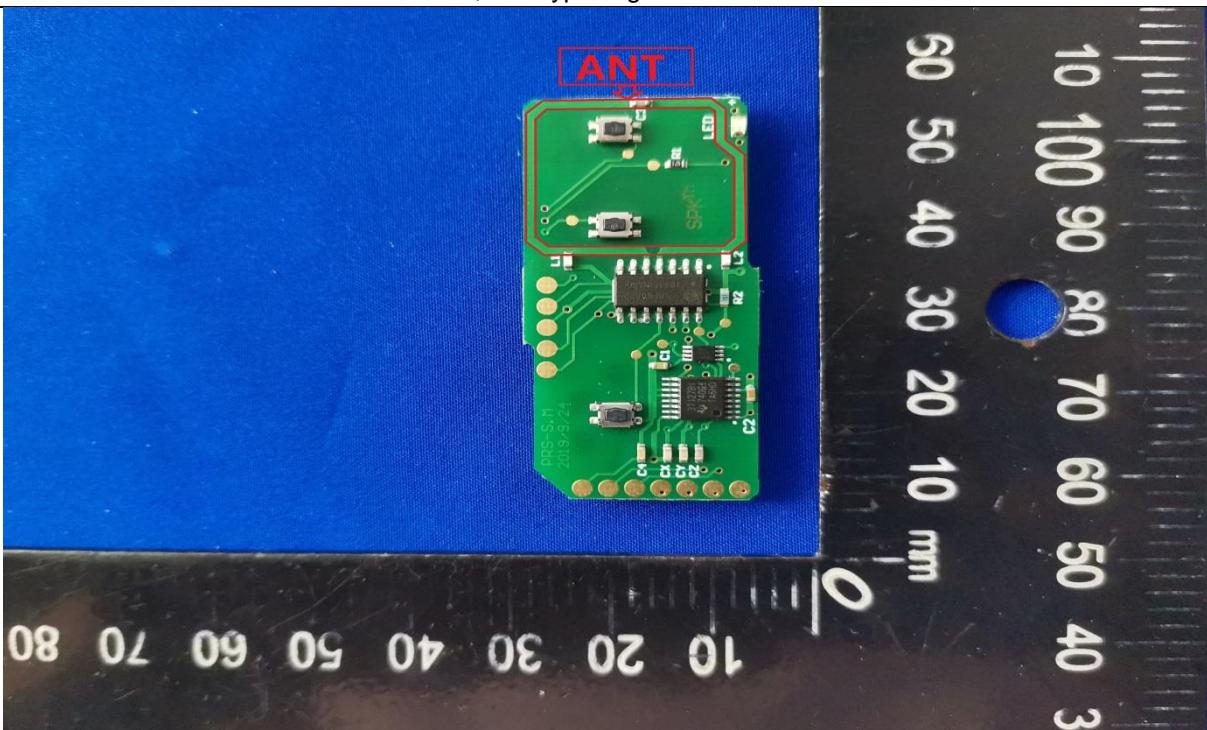
Email: info@ccis-cb.com, Website: <http://www.ccis-cb.com>

## 5.9 Test Instruments list

Radiated Emission:					
Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
3m SAC	SAEMC	9m*6m*6m	966	07-22-2017	07-21-2020
BiConiLog Antenna	SCHWARZBECK	VULB9163	497	03-18-2019	03-17-2020
Broadband Antenna	SCHWARZBECK	VUBA9117	359	06-22-2017	06-21-2020
Horn Antenna	SCHWARZBECK	BBHA9120D	916	03-18-2019	03-17-2020
Horn Antenna	SCHWARZBECK	BBHA9120D	1805	06-22-2017	06-21-2020
Horn Antenna	SCHWARZBECK	BBHA9170	582	11-21-2018 11-21-2019	11-20-2019 11-20-2020
Loop Antenna	SCHWARZBECK	FMZB1519 B	00044	03-18-2019	03-17-2020
EMI Test Software	AUDIX	E3	Version: 6.110919b		
Pre-amplifier	HP	8447D	2944A09358	03-18-2019	03-17-2020
Pre-amplifier	CD	PAP-1G18	11804	03-18-2019	03-17-2020
Spectrum analyzer	Rohde & Schwarz	FSP30	101454	03-18-2019	03-17-2020
Spectrum analyzer	Rohde & Schwarz	FSP40	100363	11-21-2018 11-21-2019	11-20-2019 11-20-2020
EMI Test Receiver	Rohde & Schwarz	ESRP7	101070	03-18-2019	03-17-2020
Simulated Station	Anritsu	MT8820C	6201026545	03-18-2019	03-17-2020
Cable	ZDECL	Z108-NJ-NJ-81	1608458	03-18-2019	03-17-2020
Cable	MICRO-COAX	MFR64639	K10742-5	03-18-2019	03-17-2020
Cable	SUHNER	SUCOFLEX100	58193/4PE	03-18-2019	03-17-2020
DC Power Supply	XinNuoEr	WYK-10020K	1409050110020	10-31-2018 10-31-2019	10-30-2019 10-30-2020
Temperature Humidity Chamber	HengPu	HPGDS-500	20140828008	09-24-2018 09-24-2019	09-23-2019 09-23-2020

## 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 make use of a PCB antenna, The typical gain of the antenna is 0 dBi. 

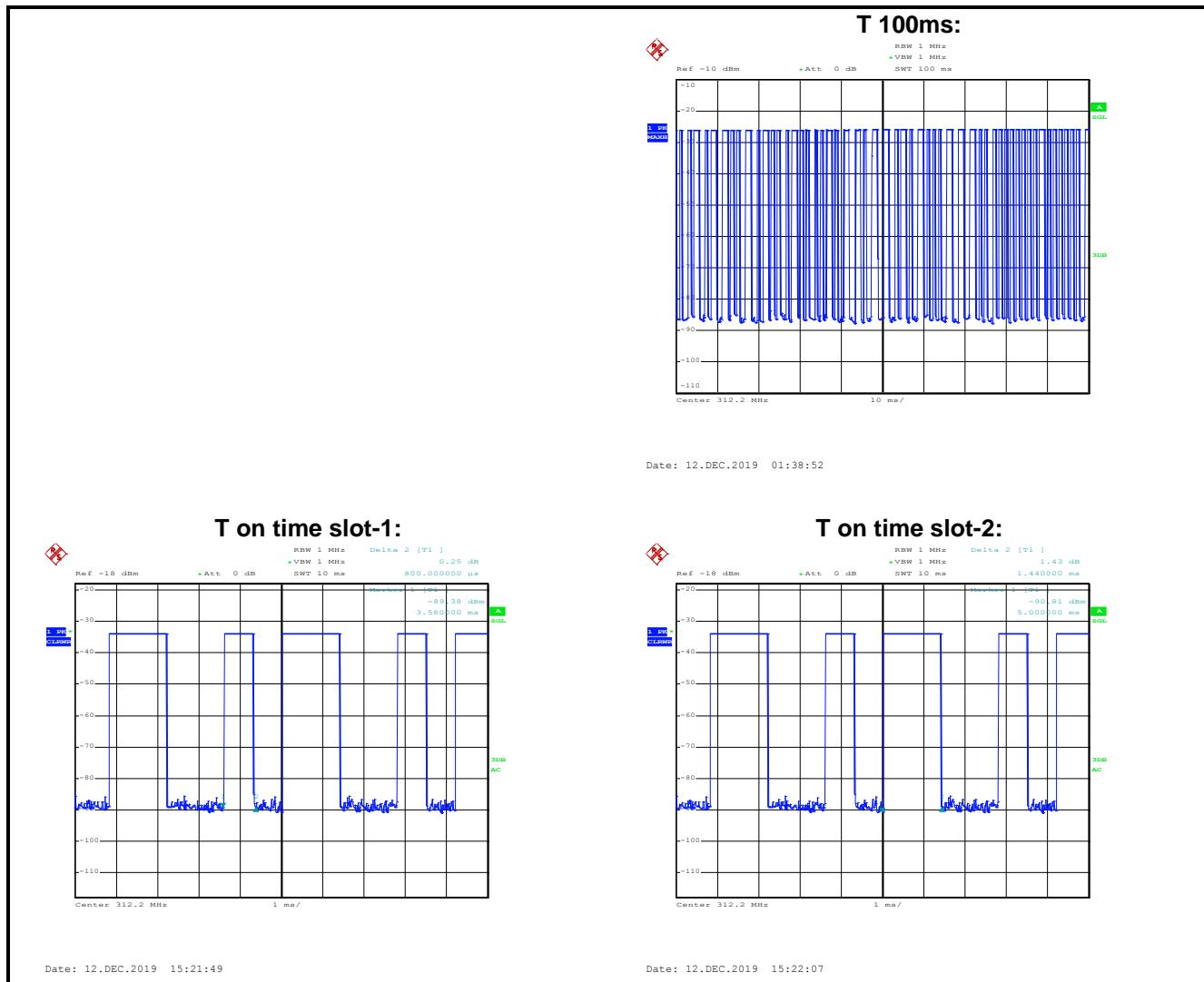
## 6.2 Radiated Emission

Test Requirement:	FCC Part15 C Section 15.231(b) and 15.209 RSS-210 Annex A Section A.1.2							
Test Frequency Range:	30MHz to 3500MHz							
Test site:	Measurement Distance: 3m (Semi-Anechoic Chamber)							
Receiver setup:	Frequency	Detector	RBW	VBW	Remark			
	30MHz-1GHz	Quasi-peak	120kHz	300kHz	Quasi-peak Value			
Limit: (Field strength of the fundamental signal)	Above 1GHz	Peak	1MHz	3MHz	Peak Value			
	Frequency	Limit (dBuV/m @3m)		Remark				
	312.2MHz	75.45		Average Value				
		95.45		Peak Value				
Limit: (Spurious Emissions)	Frequency	Limit (dBuV/m @3m)		Remark				
	30MHz-88MHz	40.0		Quasi-peak Value				
	88MHz-216MHz	43.5		Quasi-peak Value				
	216MHz-960MHz	46.0		Quasi-peak Value				
	960MHz-1GHz	54.0		Quasi-peak Value				
	Above 1GHz	54.0		Average Value				
		74.0		Peak Value				
Or The maximum permitted unwanted emission level is 20 dB below the maximum permitted fundamental level whichever limit permits higher field strength.								
Test Procedure:	<ol style="list-style-type: none"> <li>The EUT was placed on the top of a rotating table 0.8m(below 1GHz) /1.5m(above 1GHz) above the ground at a 3 meter chamber. The table was rotated 360 degrees to determine the position of the highest radiation.</li> <li>The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</li> <li>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.</li> <li>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.</li> <li>The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</li> <li>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.</li> </ol>							

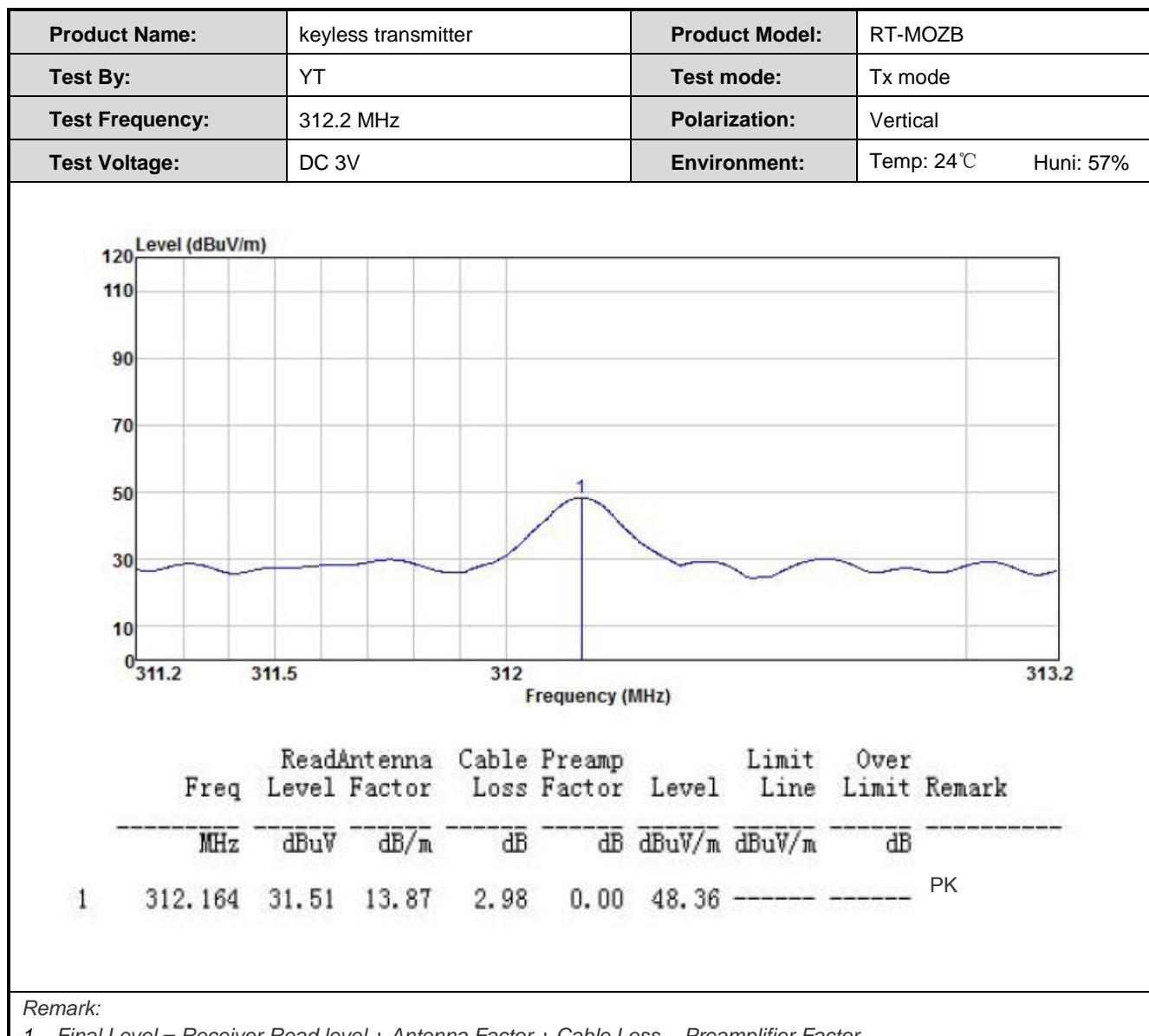
Test setup:	<p><b>Below 1GHz</b></p> <p><b>Above 1GHz</b></p>
Test Instruments:	Refer to section 5.9 for details
Test mode:	Refer to section 5.3 for details
Test results:	Pass

### 6.2.1 Field Strength Of The Fundamental Signal

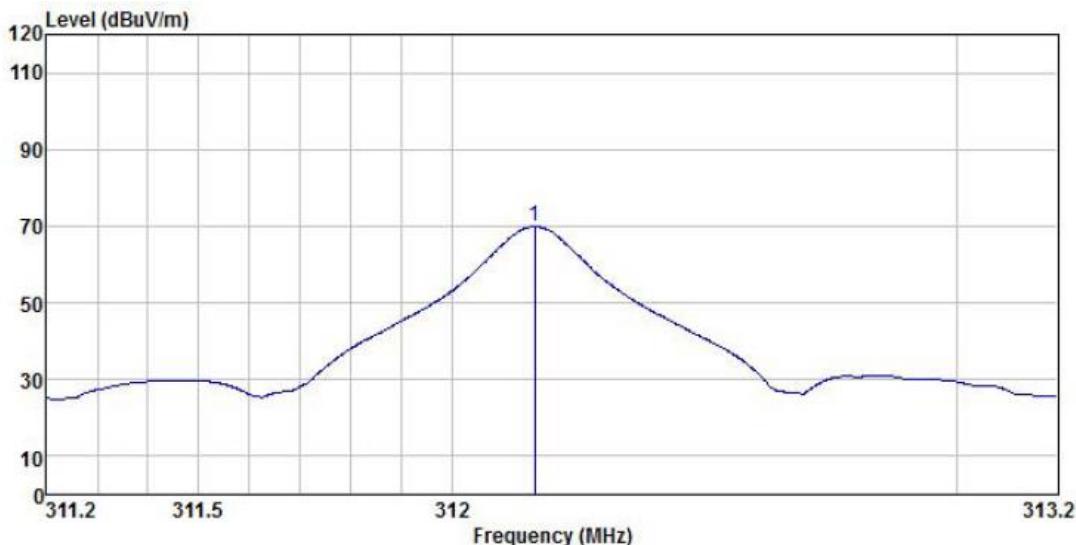
Peak value										
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization		
312.2	31.51	13.87	2.98	0.00	48.36	95.45	-47.09	Vertical		
312.2	53.02	13.87	2.98	0.00	69.87	95.45	-25.58	Horizontoal		
Average value										
Frequency (MHz)	Level (dBuV/m)		Duty Cycle factor	Average value (dBuV/m)		Limit Line (dBuV/m)	Over Limit (dB)	Polarization		
312.2	48.36		-5.24	43.12		75.45	-32.33	Vertical		
312.2	69.87		-5.24	64.63		75.45	-10.82	Horizontal		
Calculate Formula:		Average value=Peak value + Duty Cycle Factor								
		Duty cycle factor = $20\log(\text{Duty cycle})$								
		Duty cycle = on time/100 milliseconds or period, whichever is less								
Test data:		T on time = $(36*0.8)(\text{ms}) + (18*1.44) (\text{ms}) = 54.72(\text{ms})$								
		T period = $100(\text{ms})$								
		Duty cycle = $54.72\%$								
		Duty cycle factor = $20\log(\text{Duty cycle}) = -5.24$								



## Test Plots:



<b>Product Name:</b>	keyless transmitter	<b>Product Model:</b>	RT-MOZB
<b>Test By:</b>	YT	<b>Test mode:</b>	Tx mode
<b>Test Frequency:</b>	312.2MHz	<b>Polarization:</b>	Horizontal
<b>Test Voltage:</b>	DC 3V	<b>Environment:</b>	Temp: 24°C Huni: 57%



Freq	ReadAntenna Level	Cable Loss	Preamp Factor	Limit Level	Line Limit	Over Remark	
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	PK
1	312.164	53.02	13.87	2.98	0.00	69.87	-----

**Remark:**

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.

## 6.2.2 Spurious Emissions

Below 1GHz (30MHz-1000MHz)								
Peak value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
624.40	16.93	19.61	3.90	0.00	40.44	75.45	-35.01	Vertical
936.60	16.06	22.64	4.07	0.00	42.77	75.45	-32.68	Vertical
624.40	16.39	19.61	3.90	0.00	39.90	75.45	-35.55	Horizontal
936.60	16.59	22.64	4.07	0.00	43.30	75.45	-32.15	Horizontal
Average value								
Frequency (MHz)	Level (dBuV/m)	Duty cycle factor	Average value (dBuV/m)		Limit Line (dBuV/m)	Over Limit (dB)	Polarization	
624.40	40.44	-5.24	35.20		55.45	-20.25	Vertical	
936.60	42.77	-5.24	37.53		55.45	-17.92	Vertical	
624.40	39.90	-5.24	34.66		55.45	-20.79	Horizontal	
936.60	43.30	-5.24	38.06		55.45	-17.39	Horizontal	

Remark: Average value=Peak value + Duty Cycle Factor.

Above 1GHz (1000MHz-5000MHz)									
Peak value									
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB/m)	Cable Loss (dB)	Aux Factor (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
1248.80	47.64	24.65	3.39	1.22	41.05	35.85	75.45	-39.60	Vertical
1561.00	47.03	25.29	3.80	1.38	41.03	36.47	74.00	-37.53	Vertical
1873.20	46.95	25.68	4.20	1.54	41.37	37.00	75.45	-38.45	Vertical
2185.40	46.57	26.44	4.49	1.64	41.68	37.46	75.45	-37.99	Vertical
2497.60	47.20	27.40	4.82	1.70	41.90	39.22	74.00	-34.78	Vertical
2809.80	47.38	28.10	5.14	1.83	41.65	40.80	74.00	-33.20	Vertical
3122.00	46.80	28.53	5.39	1.97	41.45	41.24	75.45	-34.21	Vertical
1248.80	46.70	24.65	3.39	1.22	41.05	34.91	75.45	-40.54	Horizontoal
1561.00	48.59	25.29	3.80	1.38	41.03	38.03	74.00	-35.97	Horizontoal
1873.20	47.50	25.68	4.20	1.54	41.37	37.55	75.45	-37.90	Horizontoal
2185.40	48.17	26.44	4.49	1.64	41.68	39.06	75.45	-36.39	Horizontoal
2497.60	48.20	27.40	4.82	1.70	41.90	40.22	74.00	-33.78	Horizontoal
2809.80	47.84	28.11	5.14	1.83	41.65	41.27	74.00	-32.73	Horizontoal
3122.00	48.18	28.53	5.39	1.97	41.45	42.62	75.45	-32.83	Horizontoal
Average value									
Frequency (MHz)	Level (dBuV/m)	Duty cycle factor		Average value (dBuV/m)		Limit Line (dBuV/m)	Over Limit (dB)	Polarization	
3122.00	41.24	-5.24		36.00		55.45	-19.45	Vertical	
3122.00	42.62	-5.24		37.38		55.45	-18.07	Horizontoal	
Remark: Average value=Peak value + Duty Cycle Factor.									

**Test Plots:**

<b>Product Name:</b>	keyless transmitter	<b>Product Model:</b>	RT-MOZB
<b>Test By:</b>	YT	<b>Test mode:</b>	Tx mode
<b>Test Frequency:</b>	30 MHz ~ 1 GHz	<b>Polarization:</b>	Vertical
<b>Test Voltage:</b>	DC 3V	<b>Environment:</b>	Temp: 24°C Huni: 57%

Level (dBuV/m)

Fundamental signal

FCC PART15 CLASS B

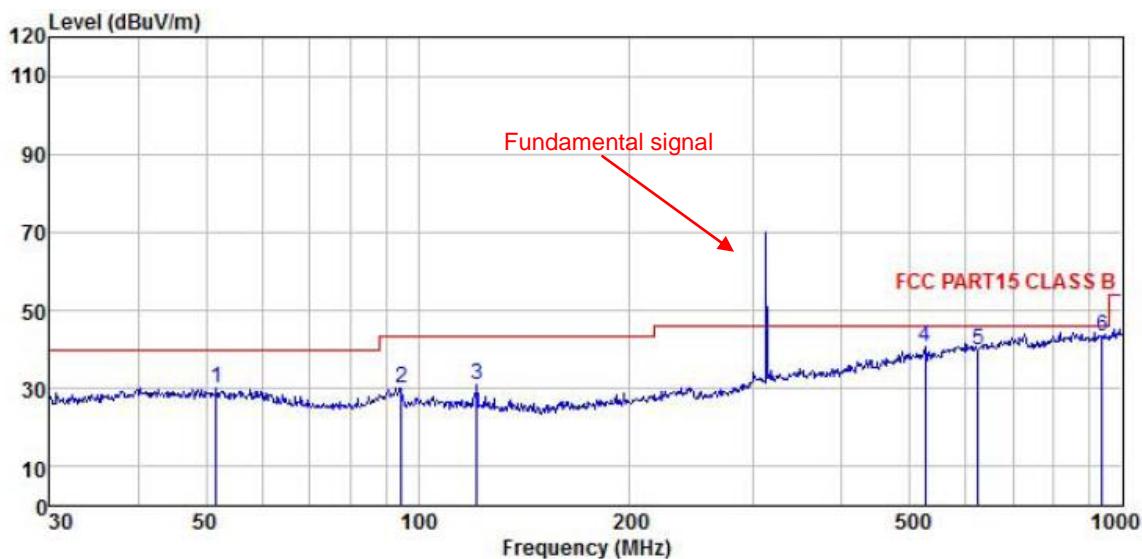
Frequency (MHz)

Freq	Read	Antenna	Cable	Preamp	Limit	Over	Remark	
	Freq	Level	Factor	Loss	Factor	Level		Line
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	43.506	16.28	12.33	1.26	0.00	29.87	40.00	-10.13 QP
2	94.760	16.03	11.30	2.01	0.00	29.34	43.50	-14.16 QP
3	120.699	16.16	10.85	2.18	0.00	29.19	43.50	-14.31 QP
4	502.940	16.67	18.21	3.64	0.00	38.52	46.00	-7.48 QP
5	624.400	16.93	19.61	3.90	0.00	40.44	46.00	-5.56 Peak
6	936.600	16.06	22.64	4.07	0.00	42.77	46.00	-3.23 Peak

Remark:

- Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
- The emission levels of other frequencies are very lower than the limit and not show in test report.

<b>Product Name:</b>	keyless transmitter	<b>Product Model:</b>	RT-MOZB
<b>Test By:</b>	YT	<b>Test mode:</b>	Tx mode
<b>Test Frequency:</b>	30 MHz ~ 1 GHz	<b>Polarization:</b>	Horizontal
<b>Test Voltage:</b>	DC 3V	<b>Environment:</b>	Temp: 24°C Huni: 57%



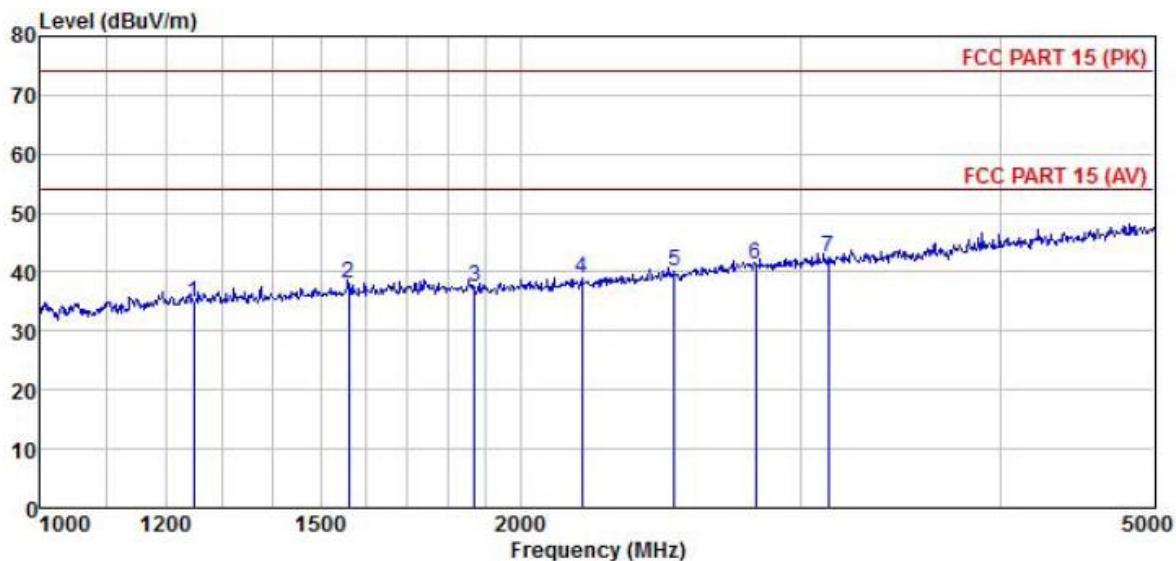
Freq	Read	Antenna	Cable	Preamp	Limit	Over	Remark
	Freq	Level	Factor	Loss	Factor	Line	
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB
1	51.662	15.75	11.94	1.27	0.00	28.96	40.00 -11.04 QP
2	94.760	15.86	11.30	2.01	0.00	29.17	43.50 -14.33 QP
3	121.123	17.00	10.81	2.18	0.00	29.99	43.50 -13.51 QP
4	524.554	17.75	18.30	3.75	0.00	39.80	46.00 -6.20 QP
5	624.400	16.39	19.61	3.90	0.00	39.90	46.00 -6.10 Peak
6	936.600	16.59	22.64	4.07	0.00	43.30	46.00 -2.70 Peak

**Remark:**

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

<b>Product Name:</b>	keyless transmitter	<b>Product Model:</b>	RT-MOZB																																																																																
<b>Test By:</b>	YT	<b>Test mode:</b>	Tx mode																																																																																
<b>Test Frequency:</b>	1 GHz ~ 5 GHz	<b>Polarization:</b>	Vertical																																																																																
<b>Test Voltage:</b>	DC 3V	<b>Environment:</b>	Temp: 24°C Huni: 57%																																																																																
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<p>Remark:</p> <ol style="list-style-type: none"> <li>Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.</li> <li>The emission levels of other frequencies are very lower than the limit and not show in test report.</li> </ol>																																																																																			

<b>Product Name:</b>	keyless transmitter	<b>Product Model:</b>	RT-MOZB
<b>Test By:</b>	YT	<b>Test mode:</b>	Tx mode
<b>Test Frequency:</b>	1 GHz ~ 5 GHz	<b>Polarization:</b>	Horizontal
<b>Test Voltage:</b>	DC 3V	<b>Environment:</b>	Temp: 24°C Huni: 57%

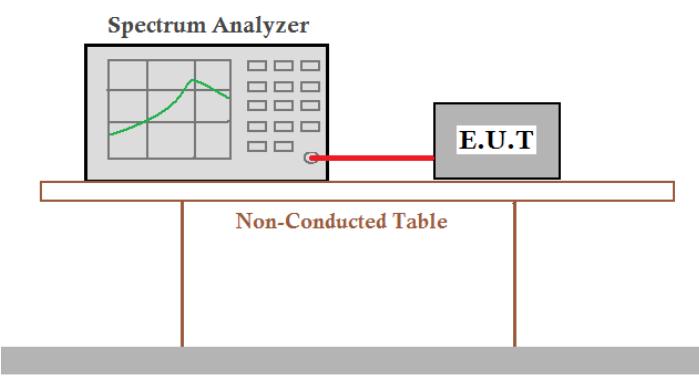


Freq	Read	Antenna	Cable	Aux	Preamp	Limit	Over	Line	Limit	Remark
	Freq	Level	Factor	Loss	Factor					
MHz	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	dB	
1	1248.699	46.70	24.65	3.39	1.22	41.05	34.91	74.00	-39.09	Peak
2	1561.761	48.59	25.29	3.80	1.38	41.03	38.03	74.00	-35.97	Peak
3	1873.261	47.50	25.68	4.20	1.54	41.37	37.55	74.00	-36.45	Peak
4	2186.248	48.17	26.44	4.49	1.64	41.68	39.06	74.00	-34.94	Peak
5	2498.699	48.20	27.40	4.82	1.70	41.90	40.22	74.00	-33.78	Peak
6	2810.210	47.84	28.11	5.14	1.83	41.65	41.27	74.00	-32.73	Peak
7	3120.124	48.18	28.53	5.39	1.97	41.45	42.62	74.00	-31.38	Peak

**Remark:**

- Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
- The emission levels of other frequencies are very lower than the limit and not show in test report.

### 6.3 20dB Bandwidth

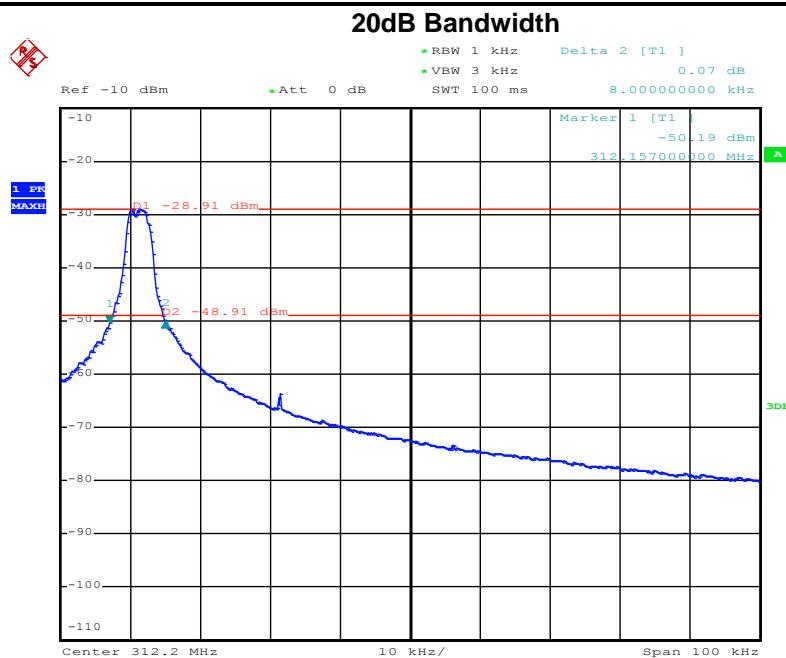
Test Requirement:	FCC Part15 C Section 15.231 (c) RSS-210 Annex A Section A.1.3
Receiver setup:	RBW=1kHz, VBW=3kHz, detector: Peak
Limit:	The bandwidth of the emission shall be no wider than 0.25% of the center frequency for devices operating above 70 MHz and below 900 MHz. For devices operating above 900 MHz, the emission shall be no wider than 0.5% of the center frequency. Bandwidth is determined at the points 20 dB down from the modulated carrier.
Test Procedure:	<ol style="list-style-type: none"> <li>According to the follow Test-setup, keep the relative position between the artificial antenna and the EUT.</li> <li>Set the EUT to proper test channel.</li> <li>Max hold the radiated emissions, mark the peak power frequency point and the -20dB upper and lower frequency points.</li> <li>Read 20dB bandwidth.</li> </ol>
Test setup:	<p style="text-align: center;"> <b>Spectrum Analyzer</b>     <b>E.U.T.</b>  Non-Conducted Table  Ground Reference Plane </p>
Test Instruments:	Refer to section 5.9 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

#### Measurement Data:

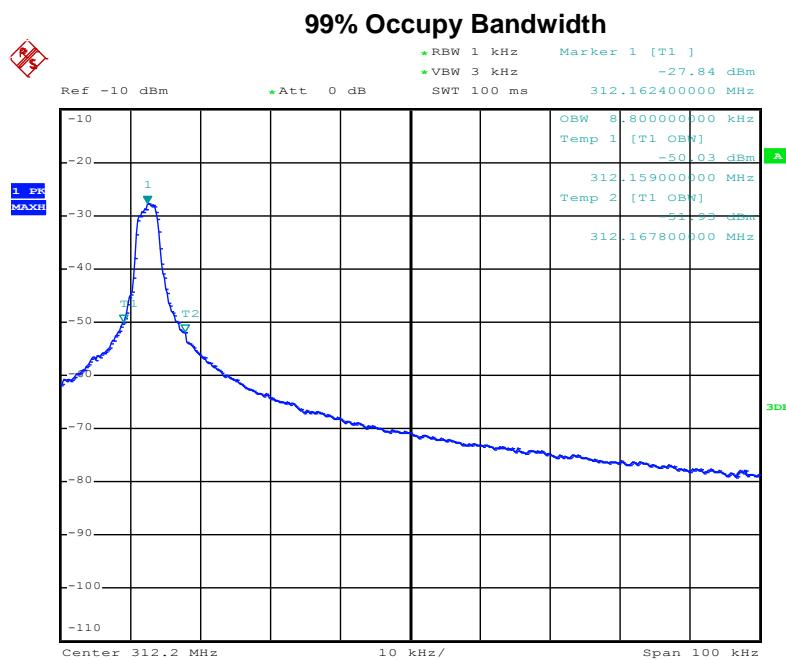
20dB bandwidth (MHz)	99% Occupy Bandwidth (MHz)	Limit (MHz)	Results
0.008	0.0088	0.7805	Passed

Note: 20dB bandwidth Limit= Fundamental frequency×0.25%=312.2×0.25%=0.7805MHz

Test plot as follows:

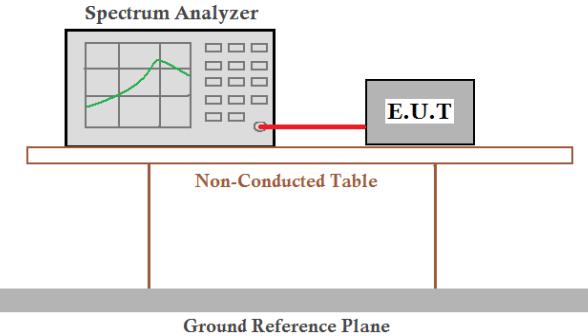


Date: 10.DEC.2019 22:24:04



Date: 10.DEC.2019 22:24:35

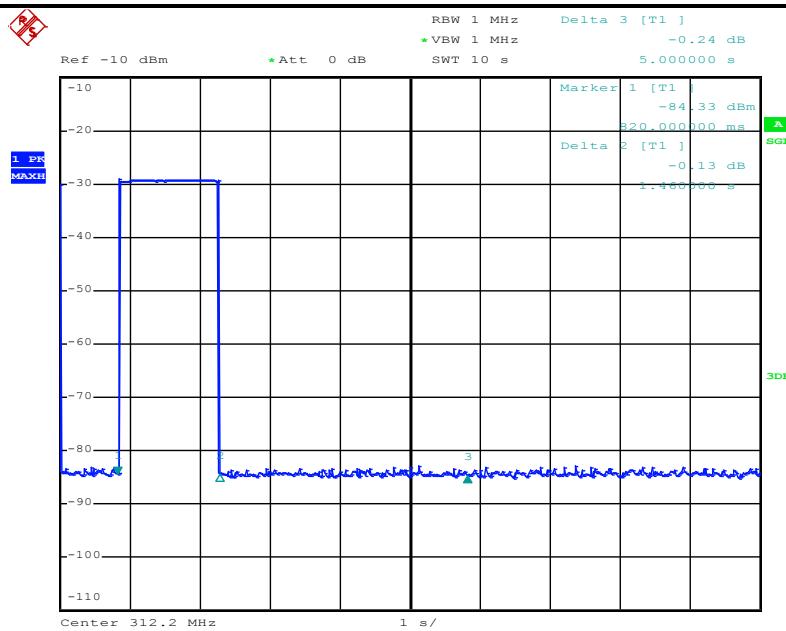
## 6.4 Duration Time

Test Requirement:	FCC Part15 C Section 15.231 (a) (1) RSS-210 Annex A Section A.1.1 (a)
Receiver setup:	RBW=100kHz, VBW=300kHz, span=0Hz, detector: Peak
Limit:	Not more than 5 seconds
Test mode:	Transmitting mode
Test Procedure:	<ol style="list-style-type: none"> <li>According to the follow Test-setup, keep the relative position between the artificial antenna and the EUT.</li> <li>Set the EUT to proper test channel.</li> <li>Single scan the transmission, and read the transmission time.</li> </ol>
Test setup:	 <p>The diagram illustrates the test setup. A Spectrum Analyzer is positioned above a Non-Conducted Table. An E.U.T (Equipment Under Test) is placed on the table. A red line connects the Spectrum Analyzer to the E.U.T, representing a coaxial cable. The entire setup rests on a horizontal grey bar labeled "Ground Reference Plane".</p>
Test Instruments:	Refer to section 5.9 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

### Measurement Data

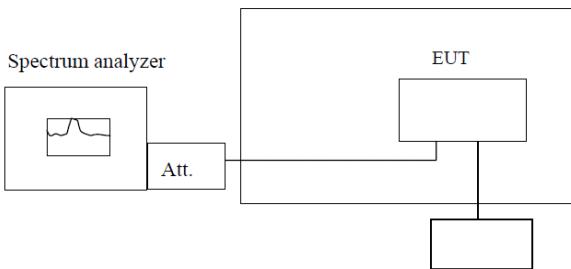
Duration time (second)	Limit (second)	Result
1.46	<5.0	Pass

Test plot as follows:



Date: 10.DEC.2019 22:29:55

## 6.5 Frequency Stability

Test Requirement:	RSS-GEN Section 8.11
Limit:	kept within at least the central 80% of its permitted operating frequency band.
Test setup:	<p style="text-align: center;">Temperature Chamber</p>  <p style="text-align: center;"><b>Note :</b> Measurement setup for testing on Antenna connector</p>
<p><b>Test procedure:</b></p> <ol style="list-style-type: none"> <li>1. The EUT is installed in an environment test chamber with external power source.</li> <li>2. Set the chamber to operate at 50 centigrade and external power source to output at nominal voltage of EUT.</li> <li>3. A sufficient stabilization period at each temperature is used prior to each frequency measurement.</li> <li>4. When temperature is stabled, measure the frequency stability.</li> <li>5. The test shall be performed under -20 to 50 centigrade and 85 to 115 percent of the nominal voltage. Change setting of chamber and external power source to complete all conditions.</li> </ol>	
Test Instruments:	Refer to section 5.9 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

**Measurement Data:**

## Voltage vs. Frequency Stability

Test conditions		Measurement Frequency (MHz)	Limit (MHz)
Temp(°C)	Voltage(ac)		
20	3.2V	312.1600	281 ~ 449
	3.0V	312.1602	
	2.5V	312.1601	

Note: EUT stops working when the supply voltage is lower than DC 2.5V.

## Temperature vs. Frequency Stability

Test conditions		Frequency(MHz)	Limit (MHz)
Voltage(dc)	Temp(°C)		
3 V	-20	312.1599	281 ~ 449
	-10	312.1600	
	0	312.1601	
	10	312.1600	
	20	312.1602	
	30	312.1598	
	40	312.1601	
	50	312.1599	

## Test plot as follows (worst case):

