

FCC 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-TY4-A, RT-TY4-B

FCC ID: 2AOKM-TOY-V4

Applicable standards: FCC CFR Title 47 Part 15 Subpart C Section 15.231(a)

Date of sample receipt: 24 Apr., 2018

Date of Test: 25 Apr., to 21 May, 2018

Date of report issue: 22 May, 2018

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.

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2 Version

Version No.	Date	Description
00	22 May, 2018	Original

Prepared By:

Zora Lee

Test Engineer

Date:

22 May, 2018

Check By:

Wimer Zhang

Project Engineer

Date:

22 May, 2018

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4 Test Summary

Test Item	Section in CFR 47	Result
Antenna requirement	15.203	Pass
Field strength of the fundamental signal	15.231 (a)	Pass
Spurious emissions	15.231 (b)/15.209	Pass
20dB Bandwidth	15.231 (c)	Pass
Dwell time	15.231 (a)	N/A
Conducted Emission	15.107	N/A

Remarks:

N/A: The EUT not applicable of the test item.

Pass: The EUT complies with the essential requirements in the standard.

TEST ACCORDING TO ANSI C63.4:2014 AND ANSI C63.10:2013.

5 General Information

5.1 Client Information

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

5.2 General Description of E.U.T.

Product Name:	keyless transmitter
Model No.:	RT-TY4-A, RT-TY4-B
Operation Frequency:	312.10MHz, 314.35MHz
Channel numbers:	2
Modulation type:	FSK
Antenna Type:	PCB antenna
Antenna gain:	0 dBi
Power supply:	DC 3V (CR2016 battery)
Remark:	The Model No.: RT-TY4-A, RT-TY4-B were identical inside, the electrical circuit design, layout, components used and internal wiring, with only difference being model name.

5.3 Test mode

Transmitting mode:	Keep the EUT in transmitting mode with modulation（new battery used）					
Pre-Test Mode:						
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:						
Frequency(MHz)	312.10			314.35		
Axis	X	Y	Z	X	Y	Z
Field Strength(dBuV/m)	67.04	59.9	60.49	74.69	70.46	72.35
Final Test Mode:						
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 Laboratory Facility

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

- **FCC - Registration No.: 727551**

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

- **IC - Registration No.: 10106A-1**

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>

5.6 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>

5.7 Measurement Uncertainty

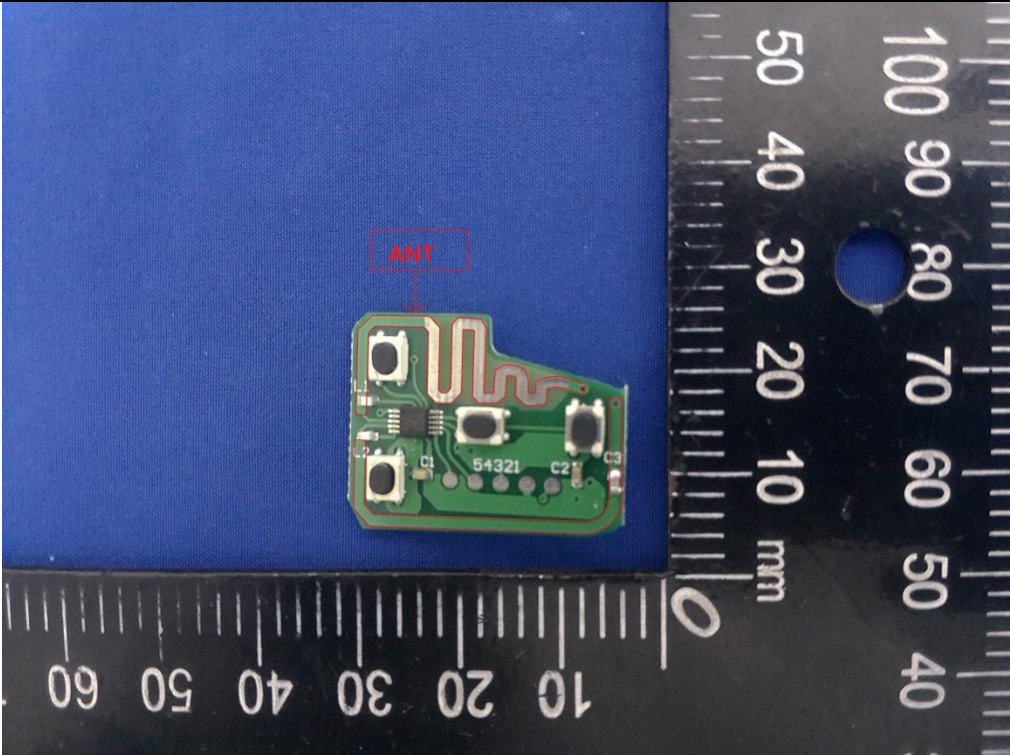
Items	Expanded Uncertainty (Confidence of 95%)
Conducted Emission (9kHz ~ 30MHz)	2.14 dB (k=2)
Radiated Emission (9kHz ~ 30MHz)	4.24 dB (k=2)
Radiated Emission (30MHz ~ 1000MHz)	4.35 dB (k=2)
Radiated Emission (1GHz ~ 18GHz)	4.44 dB (k=2)
Radiated Emission (18GHz ~ 26.5GHz)	4.56 dB (k=2)

5.8 Test Instruments list

Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
EMI Test Receiver	Rohde & Schwarz	ESCI	CCIS0002	03-07-2018	03-06-2019
BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	CCIS0005	03-07-2018	03-06-2019
Double-ridged waveguide horn antenna	SCHWARZBECK MESS-ELEKTRONIK	BBHA9120D	CCIS0006	03-07-2018	03-06-2019
Amplifier (10kHz-1.3GHz)	HP	8447D	CCIS0003	03-07-2018	03-06-2019
Amplifier (1GHz-18GHz)	Compliance Direction Systems Inc.	PAP-1G18	CCIS0011	03-07-2018	03-06-2019
Spectrum analyzer	Rohde & Schwarz	FSP	CCIS0023	03-07-2018	03-06-2019

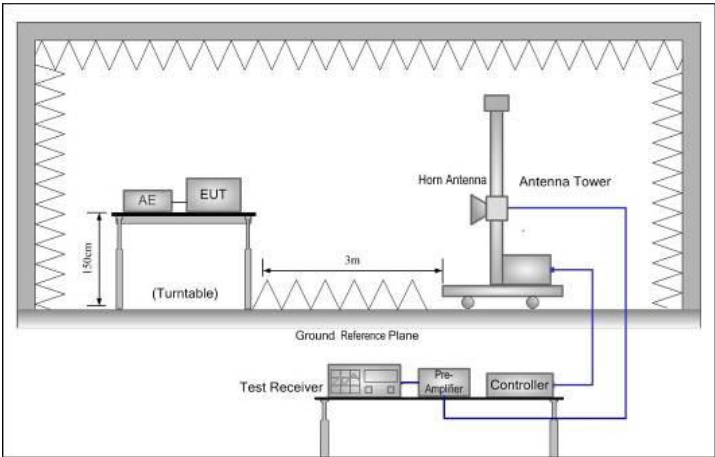
6 Test results and Measurement Data

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 an PCB antenna, The typical gain of the antenna is 0dBi.	
	

6.2 Radiated Emission

Test Requirement:	FCC Part15 C Section 15.231(a) and 15.209				
Test Method:	ANSI C63.4:2014				
Test Frequency Range:	30MHz to 5000MHz				
Test site:	Measurement Distance: 3m (Semi-Anechoic Chamber)				
Receiver setup:	Frequency	Detector	RBW	VBW	Remark
	30MHz-1GHz	Quasi-peak	120kHz	300kHz	Quasi-peak Value
	Above 1GHz	Peak	1MHz	3MHz	Peak Value
Limit: (Field strength of the fundamental signal)	Frequency		Limit (dBuV/m @3m)		Remark
	314.10MHz		75.45		Average Value
			95.45		Peak Value
	314.35MHz		75.58		Average Value
			95.58		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:	a. 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.			
b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.					
c. 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.					
d. 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.					
e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.					
f. 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.					

Test setup:	Below 1GHz  Above 1GHz 
Test Instruments:	Refer to section 5.7 for details
Test mode:	Refer to section 5.3 for details
Test results:	Pass

6.2.1 Field Strength Of The Fundamental Signal

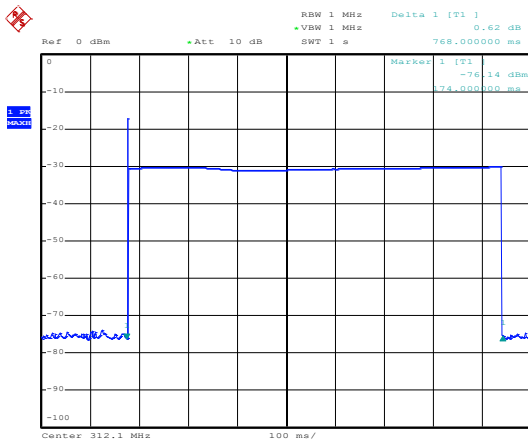
Test Frequency: 312.10MHz

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
312.10	50.57	13.49	2.98	0.00	67.04	95.45	-28.41	Vertical
312.10	45.84	13.49	2.98	0.00	62.31	95.45	-33.14	Horizontal
Average value								
Frequency (MHz)	Level (dBuV/m)	Duty Cycle factor	Average value (dBuV/m)		Limit Line (dBuV/m)	Over Limit (dB)	Polarization	
312.10	67.04	0.00	67.04		75.45	-8.41	Vertical	
312.10	62.31	0.00	62.31		75.45	-13.14	Horizontal	
Calculate Formula:		Duty cycle factor = 20log(Duty cycle)						
		Duty cycle = on time/100 milliseconds or period, whichever is less						
Test data:		T on time =100(ms)						
		T period =768(ms)>100(ms)						
		Duty cycle =100%						
		Duty cycle factor = 20log(Duty cycle) =0						

Test Frequency: 314.35MHz

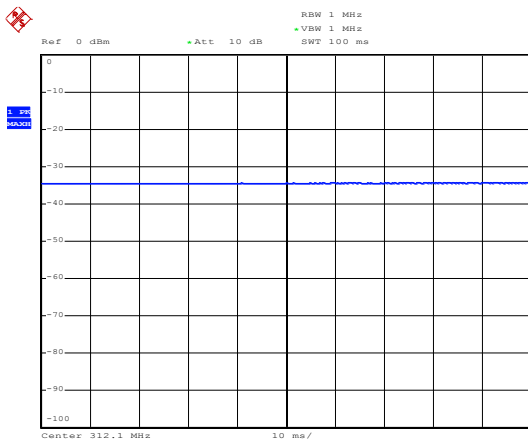
Peak value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
314.35	58.20	13.51	2.98	0.00	74.69	95.58	-20.89	Vertical
314.35	47.01	13.51	2.98	0.00	63.50	95.58	-32.08	Horizontal
Average value								
Frequency (MHz)	Level (dBuV/m)	Duty Cycle factor	Average value (dBuV/m)		Limit Line (dBuV/m)	Over Limit (dB)	Polarization	
314.35	74.69	0.00	74.69		75.58	-0.89	Vertical	
314.35	63.50	0.00	63.50		75.58	-12.08	Horizontal	
Calculate Formula:		Duty cycle factor = 20log(Duty cycle)						
		Duty cycle = on time/100 milliseconds or period, whichever is less						
Test data:		T on time =100(ms)						
		T period =770(ms)>100(ms)						
		Duty cycle =100%						
		Duty cycle factor = 20log(Duty cycle) =0						

Test Frequency: 312.10MHz



Date: 7.MAY.2018 20:31:18

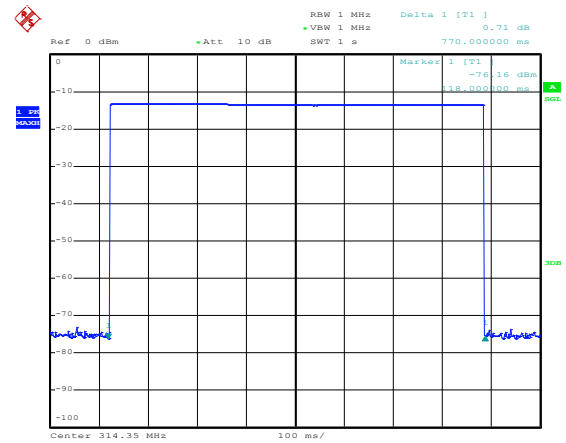
T period



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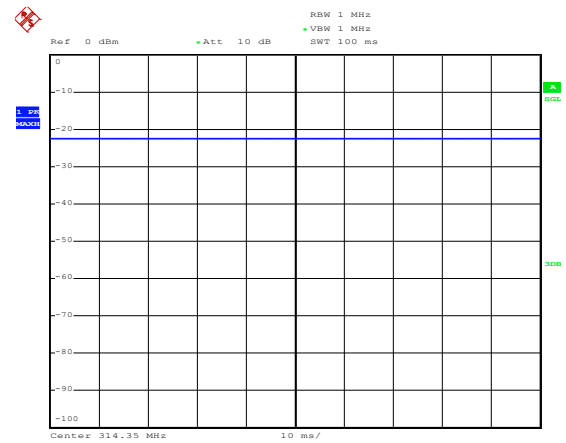
T on time slot

Test Frequency: 314.35MHz



Date: 11.MAY.2018 23:37:04

T period



Date: 11.MAY.2018 23:38:04

T on time slot

6.2.2 Spurious Emissions

Test Frequency: 312.10MHz

Below 1GHz (30MHz-1000MHz)								
Peak value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
624.20	16.71	19.56	3.90	0.00	40.17	75.45	-35.28	Vertical
936.30	16.67	22.38	4.06	0.00	43.11	75.45	-32.34	Vertical
624.20	16.80	19.56	3.90	0.00	40.26	75.45	-35.19	Horizontal
936.30	17.04	22.38	4.06	0.00	43.48	75.45	-31.97	Horizontal
Average value								
Frequency (MHz)	Level (dBuV/m)	Duty cycle factor	Average value (dBuV/m)		Limit Line (dBuV/m)	Over Limit (dB)	polarization	
624.20	40.17	0.00	40.17		55.45	-15.28	Vertical	
936.30	43.11	0.00	43.11		55.45	-12.34	Vertical	
624.20	40.26	0.00	40.26		55.45	-15.19	Horizontal	
936.30	43.48	0.00	43.48		55.45	-11.97	Horizontal	

Test Frequency: 314.35MHz

Below 1GHz (30MHz-1000MHz)								
Peak value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
628.70	16.38	19.51	3.89	0.00	39.78	75.58	-35.80	Vertical
943.05	16.29	22.37	4.13	0.00	42.79	75.58	-32.79	Vertical
628.70	16.88	19.51	3.89	0.00	40.28	75.58	-35.30	Horizontal
943.05	16.35	22.37	4.13	0.00	42.85	75.58	-32.73	Horizontal
Average value								
Frequency (MHz)	Level (dBuV/m)	Duty cycle factor	Average value (dBuV/m)		Limit Line (dBuV/m)	Over Limit (dB)	polarization	
628.70	39.78	0.00	39.78		55.58	-15.80	Vertical	
943.05	42.79	0.00	42.79		55.58	-12.79	Vertical	
628.70	40.28	0.00	40.28		55.58	-15.30	Horizontal	
943.05	42.85	0.00	42.85		55.58	-12.73	Horizontal	

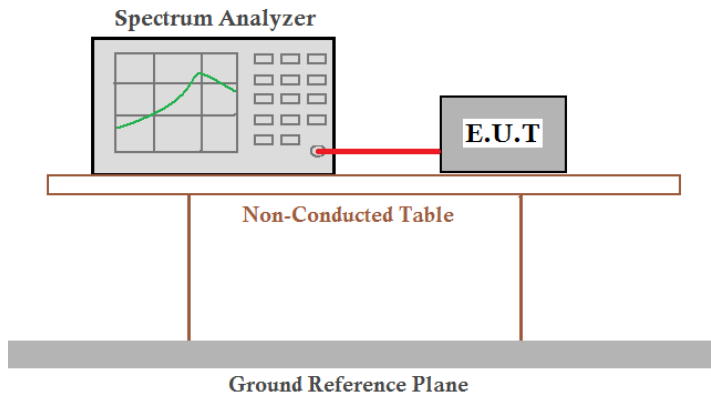
Test Frequency: 312.10MHz

Above 1GHz									
Peak value									
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB/m)	Cable Loss (dB)	Aux Factor (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
1248.40	45.90	27.28	3.39	2.45	41.05	37.97	75.45	-37.48	Vertical
1560.50	46.39	24.48	3.80	2.22	41.03	35.86	74.00	-38.14	Vertical
1872.60	46.45	25.36	4.20	2.45	41.41	37.05	75.45	-38.40	Vertical
2184.70	46.46	26.13	4.49	2.69	41.68	38.09	75.45	-37.36	Vertical
2496.50	46.30	26.88	4.82	2.85	41.90	38.95	74.00	-35.05	Vertical
2808.90	46.83	27.60	5.14	2.89	41.63	40.83	74.00	-33.17	Vertical
3121.00	46.88	28.24	5.39	2.92	41.43	42.00	75.45	-33.45	Vertical
1248.40	46.02	28.68	3.39	2.45	41.05	39.49	75.45	-35.96	Horizontal
1560.50	46.76	25.36	3.80	2.22	41.03	37.11	74.00	-36.89	Horizontal
1872.60	46.64	26.13	4.20	2.45	41.41	38.01	75.45	-37.44	Horizontal
2184.70	46.65	26.88	4.49	2.69	41.68	39.03	75.45	-36.42	Horizontal
2496.50	46.38	27.60	4.82	2.85	41.90	39.75	74.00	-34.25	Horizontal
2808.90	47.02	28.24	5.14	2.89	41.63	41.66	74.00	-32.34	Horizontal
3121.00	45.95	28.68	5.39	2.92	41.43	41.51	75.45	-33.94	Horizontal
Average value									
Frequency (MHz)	Level (dBuV/m)	Duty cycle factor	Average value (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization			
1248.40	37.97	0.00	37.97	55.45	-17.48	Vertical			
1560.50	35.86	0.00	35.86	54.00	-18.14	Vertical			
1872.60	37.05	0.00	37.05	55.45	-18.40	Vertical			
2184.70	38.09	0.00	38.09	55.45	-17.36	Vertical			
2496.50	38.95	0.00	38.95	54.00	-15.05	Vertical			
2808.90	40.83	0.00	40.83	54.00	-13.17	Vertical			
3121.00	42.00	0.00	42.00	55.45	-13.45	Vertical			
1248.40	39.49	0.00	39.49	55.45	-15.96	Horizontal			
1560.50	37.11	0.00	37.11	54.00	-16.89	Horizontal			
1872.60	38.01	0.00	38.01	55.45	-17.44	Horizontal			
2184.70	39.03	0.00	39.03	55.45	-16.42	Horizontal			
2496.50	39.75	0.00	39.75	54.00	-14.25	Horizontal			
2808.90	41.66	0.00	41.66	54.00	-12.34	Horizontal			
3121.00	41.51	0.00	41.51	55.45	-13.94	Horizontal			

Test Frequency: 314.35MHz

Above 1GHz									
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
1257.40	45.98	24.50	3.40	2.45	41.05	35.28	75.58	-40.30	Vertical
1571.75	45.79	25.40	3.81	2.22	41.03	36.19	74.00	-37.81	Vertical
1886.10	46.22	26.15	4.21	2.45	41.41	37.62	75.58	-37.96	Vertical
2200.45	46.39	26.92	4.50	2.69	41.68	38.82	74.00	-35.18	Vertical
2514.80	46.38	27.64	4.84	2.85	41.90	39.81	75.58	-35.77	Vertical
2829.15	46.42	28.28	5.17	2.89	41.63	41.13	74.00	-32.87	Vertical
3143.50	45.93	28.69	5.40	2.92	41.43	41.51	75.58	-34.07	Vertical
1257.40	48.65	24.50	3.40	2.45	41.05	37.95	75.58	-37.63	Horizontal
1571.75	46.34	25.40	3.81	2.22	41.03	36.74	74.00	-37.26	Horizontal
1886.10	46.97	26.15	4.21	2.45	41.41	38.37	75.58	-37.21	Horizontal
2200.45	46.29	26.92	4.50	2.69	41.68	38.72	74.00	-35.28	Horizontal
2514.80	48.11	27.64	4.84	2.85	41.90	41.54	75.58	-34.04	Horizontal
2829.15	46.64	28.28	5.17	2.89	41.63	41.35	74.00	-32.65	Horizontal
3143.50	46.82	28.69	5.40	2.92	41.43	42.40	75.58	-33.18	Horizontal
Average value									
Frequency (MHz)	Level (dBuV/m)	Duty cycle factor	Average value (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization			
1257.40	35.28	0.00	35.28	55.58	-20.30	Vertical			
1571.75	36.19	0.00	36.19	54.00	-17.81	Vertical			
1886.10	37.62	0.00	37.62	55.58	-17.96	Vertical			
2200.45	38.82	0.00	38.82	54.00	-15.18	Vertical			
2514.80	39.81	0.00	39.81	55.58	-15.77	Vertical			
2829.15	41.13	0.00	41.13	54.00	-12.87	Vertical			
3143.50	41.51	0.00	41.51	55.58	-14.07	Vertical			
1257.40	37.95	0.00	37.95	55.58	-17.63	Horizontal			
1571.75	36.74	0.00	36.74	54.00	-17.26	Horizontal			
1886.10	38.37	0.00	38.37	55.58	-17.21	Horizontal			
2200.45	38.72	0.00	38.72	54.00	-15.28	Horizontal			
2514.80	41.54	0.00	41.54	55.58	-14.04	Horizontal			
2829.15	41.35	0.00	41.35	54.00	-12.65	Horizontal			
3143.50	42.40	0.00	42.40	55.58	-13.18	Horizontal			

6.3 20dB Bandwidth

Test Requirement:	FCC Part15 C Section 15.231 (c)
Test Method:	ANSI C63.4:2014
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:	1. According to the follow Test-setup, keep the relative position between the artificial antenna and the EUT. 2. Set the EUT to proper test channel. 3. Max hold the radiated emissions, mark the peak power frequency point and the -20dB upper and lower frequency points. 4. Read 20dB bandwidth.
Test setup:	 The diagram illustrates the test setup. A Spectrum Analyzer is connected via a red cable to an E.U.T. (Equipment Under Test). Both are placed on a Non-Conducted Table. Below the table is a Ground Reference Plane.
Test Instruments:	Refer to section 5.7 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

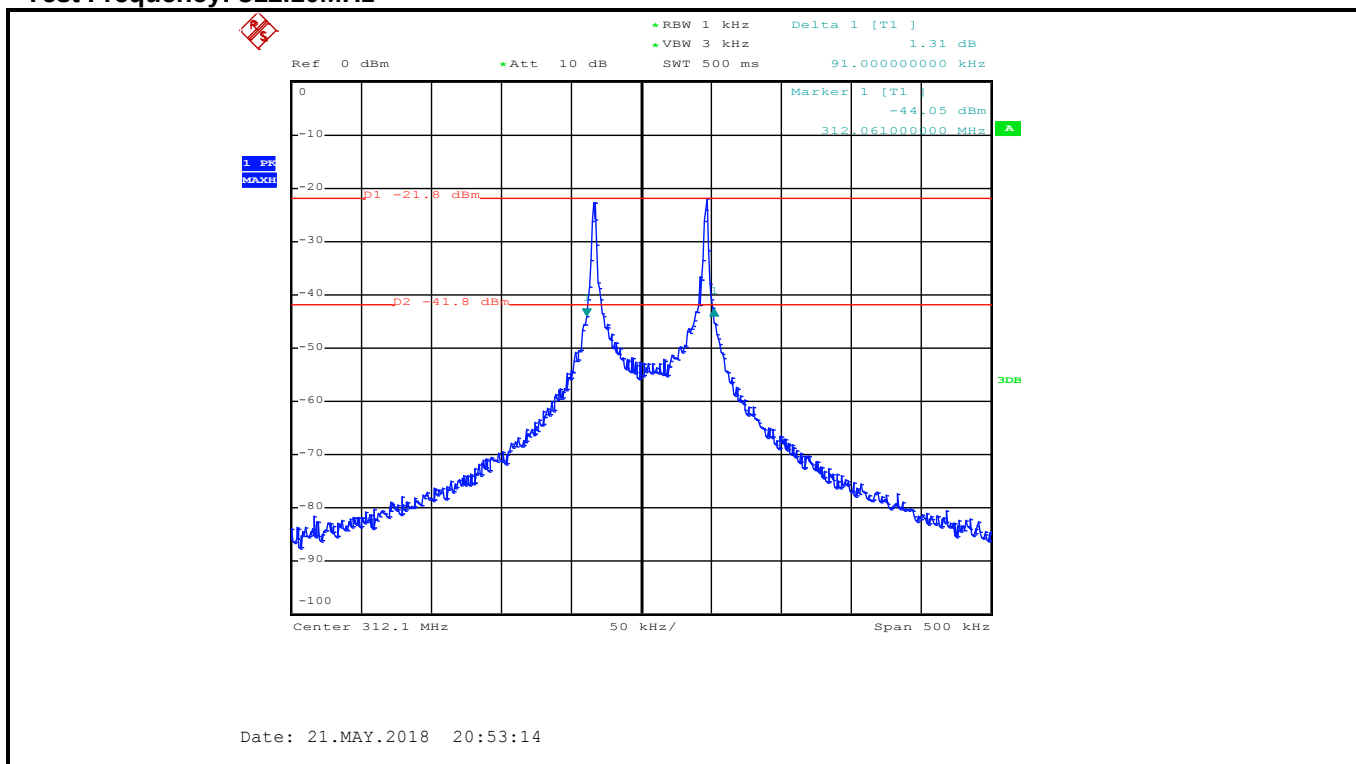
Measurement Data

Frequency (MHz)	20dB bandwidth (MHz)	Limit (MHz)	Results
312.10MHz	0.091	0.7803	Passed
314.35MHz	0.091	0.7859	Passed

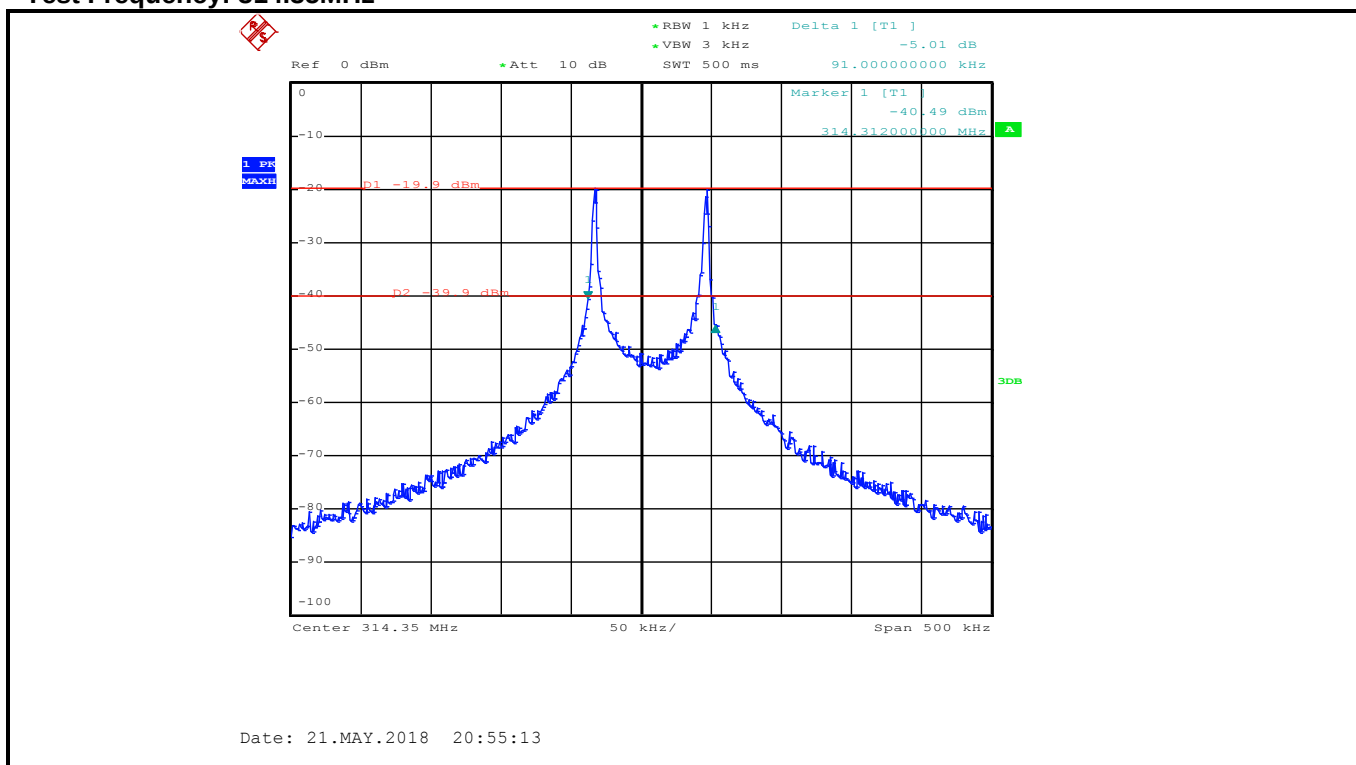
Note: Limit= Fundamental frequency×0.25%, 312.10×0.25%=0.7803MHz, 314.35×0.25%=0.7859MHz

Test plot as follows:

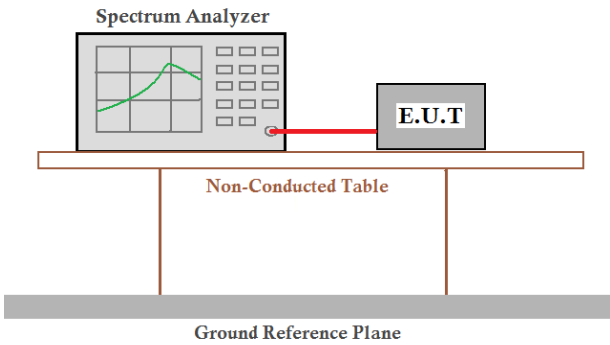
Test Frequency: 312.10MHz



Test Frequency: 314.35MHz



6.4 Duration Time

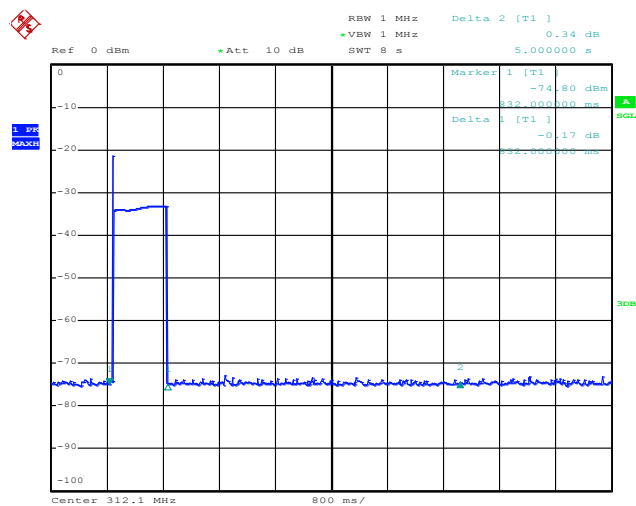
Test Requirement:	FCC Part15 C Section 15.231 (a)
Test Method:	ANSI C63.10: 2013
Receiver setup:	RBW=100kHz, VBW=300kHz, span=0Hz, detector: Peak
Limit:	Not more than 5 seconds
Test mode:	Transmitting mode
Test Procedure:	1. According to the follow Test-setup, keep the relative position between the artificial antenna and the EUT. 2. Set the EUT to proper test channel. 3. Single scan the transmission, and read the transmission time.
Test setup:	 The diagram illustrates the test setup. A Spectrum Analyzer is connected to an E.U.T. (Equipment Under Test) via a red cable. Both the Spectrum Analyzer and the E.U.T. are placed on a Non-Conducted Table. The table is supported by two vertical legs and sits on a Ground Reference Plane.
Test Instruments:	Refer to section 5.8 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

Measurement Data

Frequency (MHz)	Duration time (second)	Limit (second)	Result
312.10MHz	0.832	<5.0	Pass
314.35MHz	0.816	<5.0	Pass

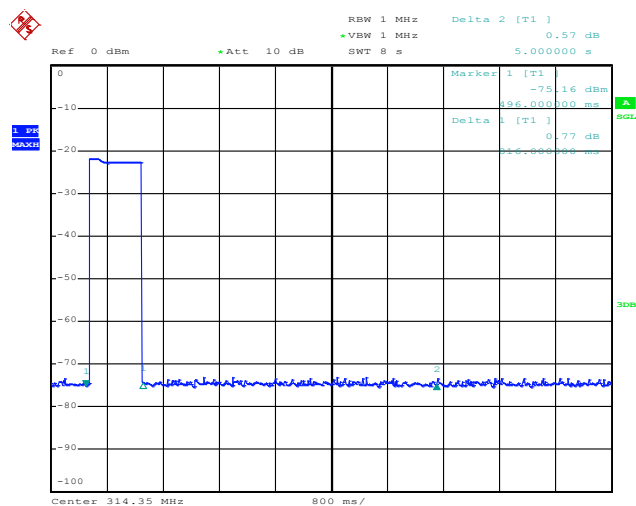
Test plot as follows:

Test Frequency: 312.10MHz



Date: 11.MAY.2018 23:45:53

Test Frequency: 314.35MHz



Date: 11.MAY.2018 23:43:10