

Report No: JYTSZB-R12-2101111

FCC REPORT

Applicant:	Remote Tech LLC			
Address of Applicant:	310 ALDER RD, DOVER DE 19904 USA			
Equipment Under Test (E	EUT)			
Product Name:	keyless transmitter			
Model No.:	RT-VL25B			
FCC ID:	2AOKM-VL2			
Applicable standards:	FCC CFR Title 47 Part 15 Subpart C Section 15.231			
Date of sample receipt:	09 Jun., 2021			
Date of Test:	10 Jun., to 09 Jul., 2021			
Date of report issue:	14 Jul., 2021			
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 JYT 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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Version 2

Version No.	Date	Description
00	06 Jul., 2021	Original
01	14 Jul., 2021	 Removed Spurious Emissions data table on page 13. Updated test data on page 17/18.

Prepared By:

Janet Wei Date: Test Engineer Winner Mang Date:

14 Jul., 2021

14 Jul., 2021

Check By:

Project Engineer

Project No.: JYTSZE2106044



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4 Test Summary

	Test Item	Section in CFR 47	Result		
Ante	nna requirement	15.203	Pass		
Field strength	of the fundamental signal	15.231 (b)	Pass		
Spu	rious emissions	15.231 (b)/15.209	Pass		
20	dB Bandwidth	15.231 (c)	Pass		
Duration Time 15.231 (a)(1) Pass					
Cone	ducted Emission	15.207	N/A		
2. N/A: The E		•	ent items is 0.5dB (provided by		
Test Method: ANSI C63.4-2014 ANSI C63.10-2013 ANSI C63.10-2013					



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-VL25B
Operation Frequency:	315MHz
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)						
Pre-Test Mode:	Pre-Test Mode:						
JYT 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	Axis X Y Z						
Field Strength(dBuV/m)	Field Strength(dBuV/m) 90.51 90.87 91.96						
Final Test Mode:							
According to ANSI C63.4 standards, the test results are both the "worst case" and "worst setup": Z 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)	±5.16 dB (k=2)
Radiated Emission (18GHz ~ 40GHz)	±3.20 dB (k=2)

5.6 Additions to, deviations, 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

JianYan Testing Group Shenzhen 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 JianYan Testing Group Shenzhen Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.

• 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

JianYan Testing Group Shenzhen Co., Ltd.

Address: No.101, Building 8, Innovation Wisdom Port, No.155 Hongtian Road, Huangpu Community, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, People's Republic of China. Tel: +86-755-23118282, Fax: +86-755-23116366 Email: info-JYTee@lets.com, Website: <u>http://www.ccis-cb.com</u>

5.9 Test Instruments list

Radiated Emission:								
Test Equipment	Manufacturer	Model No.	Model No. Serial No. C.		Cal. Due date (mm-dd-yy)			
3m SAC	SAEMC	9m*6m*6m	966	01-19-2021	01-18-2024			
BiConiLog Antenna	SCHWARZBECK	VULB9163	497	03-03-2021	03-02-2022			
Broadband Antenna	SCHWARZBECK	VUBA9117	359	06-18-2020	06-17-2021			
Horn Antenna	SCHWARZBECK	BBHA9120D	916	03-03-2021	03-02-2022			
Horn Antenna	SCHWARZBECK	BBHA9120D	1805	06-18-2020	06-17-2021			
Horn Antenna	SCHWARZBECK	BBHA9170	582	11-27-2020	11-26-2021			
Loop Antenna	SCHWARZBECK	FMZB1519B	00044	03-03-2021	03-02-2022			
EMI Test Software	AUDIX	E3	N	/ersion: 6.110919	b			
Pre-amplifier	HP	8447D	2944A09358	03-03-2021	03-02-2022			
Pre-amplifier	CD	PAP-1G18	11804	03-03-2021	03-02-2022			
Spectrum analyzer	Rohde & Schwarz	FSP30	101454	03-03-2021	03-02-2022			
Spectrum analyzer	Rohde & Schwarz	FSP40	100363	11-27-2020	11-26-2021			
EMI Test Receiver	Rohde & Schwarz	ESRP7	101070	03-03-2021	03-02-2022			
Simulated Station	Anritsu	MT8820C	6201026545 03-03-2021 03-02-2		03-02-2022			
Cable	ZDECL	Z108-NJ-NJ-81	1608458	03-03-2021	03-02-2022			
Cable	MICRO-COAX	MFR64639	K10742-5	03-03-2021	03-02-2022			
Cable	SUHNER	SUCOFLEX100	58193/4PE	03-03-2021	03-02-2022			



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 to responsible party shall be us antenna that uses a unique of	be designed to ensure that no antenna other than that furnished by the sed with the device. The use of a permanently attached antenna or of an coupling to the intentional radiator, the manufacturer may design the unit n be replaced by the user, but the use of a standard antenna jack or				
E.U.T Antenna:					
The EUT make use of a PCB antenna, The typical gain of the antenna is 0dBi.					

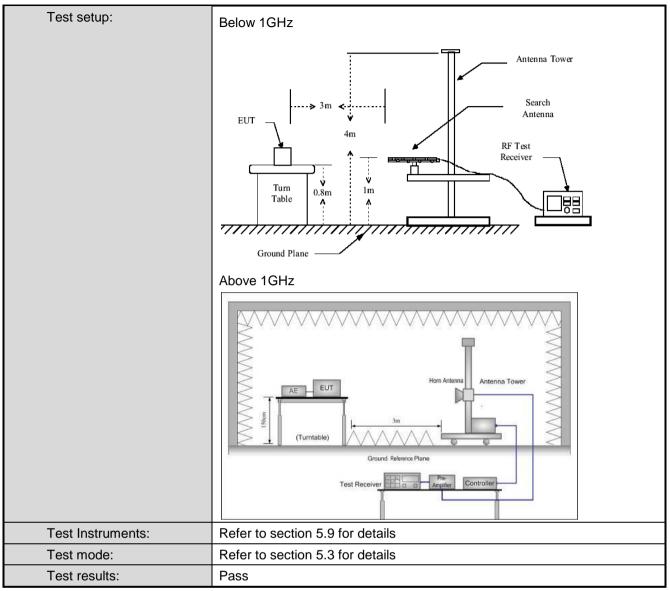


6.2 Radiated Emission

Test Requirement:	FCC Part15 C Section 15.231(a) and 15.209					
Test Frequency Range:	30MHz to 3500MHz					
Test site:	Measurement Distance: 3m (Semi-Anechoic Chamber)					
Receiver setup:	Frequency Detector RBW VBW		VBW	Remark		
	30MHz-1GHz	Quasi-peak	120kHz	300kH	z Quasi-peak Value	
	Above 1GHz	Peak	1MHz	3MHz	Peak Value	
Limit:	Frequen	cy L	Limit (dBuV/m @3m)		Remark	
(Field strength of the	21514	-	75.62		Average Value	
fundamental signal)	315MH	2	95.62		Peak Value	
Limit:	Frequen	cy L	imit (dBuV/m	⊉3m)	Remark	
(Spurious Emissions)	30MHz-88	MHz	40.0		Quasi-peak Value	
	88MHz-216	SMHz	43.5		Quasi-peak Value	
	216MHz-96	0MHz	46.0		Quasi-peak Value	
	960MHz-1	GHz	54.0		Quasi-peak Value	
	Above 10	Hz	54.0		Average Value	
			74.0		Peak Value	
Test Procedure:	 Or The maximum permitted unwanted emission level is 20 dB below the maximum permitted fundamental level whichever limit permits higher field strength. 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 260 degrees to determine the position of the higher. 					
	 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, quasipeak or average method as specified and then reported in a data 					



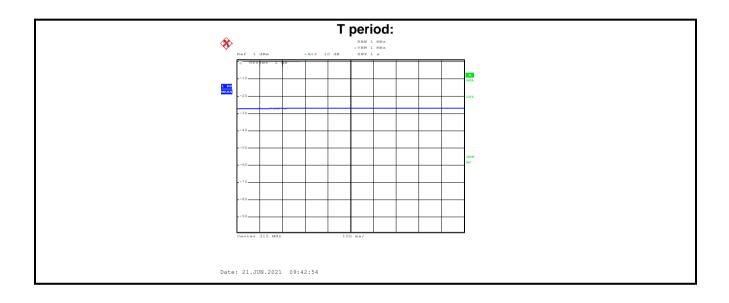
Report No: JYTSZB-R12-2101111





	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
315	49.11	18.73	1.8	0.00	69.64	95.62	-25.98	Vertical
315	71.43	18.73	1.8	0.00	91.96	95.62	-3.66	Horizontal
				Average 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
315	36.50	18.73	1.8	0.00	57.03	75.62	-18.59	Vertical
315	53.90	18.73	1.8	0.00	74.43	75.62	-1.19	Horizontal



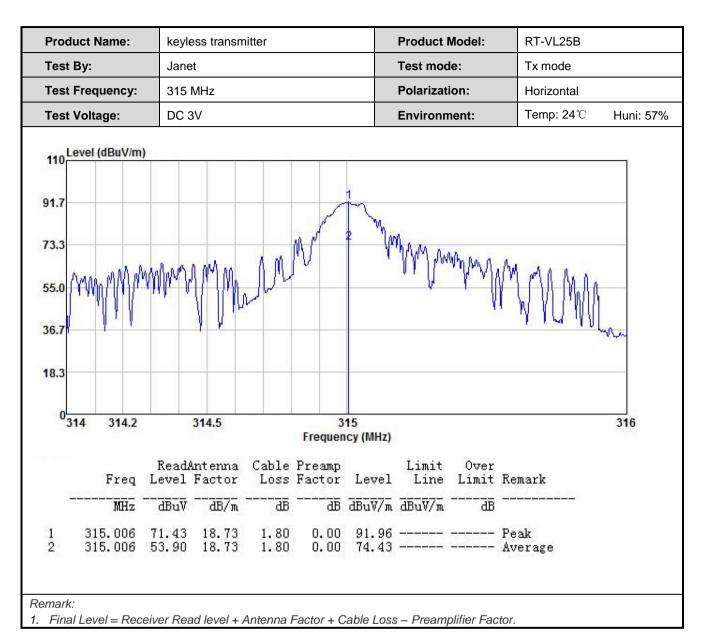




Test Plots:

Product Name:	keyless transmitter	ss transmitter Product Model:			: RT-VL25B			
Test By:	Janet		Test mo	ode:	Tx mode			
Test Frequency:	quency: 315 MHz				Vertical	Vertical		
Test Voltage:	DC 3V	Environ	ment:	Temp: 24	℃ Huni: 57%			
Loval (dBu)//m)	<u> </u>				·			
110 Level (dBuV/m)								
91.7								
73.3		0.1						
		5~2	1.1					
55.0	A	And I have been a second	Mr. All	a na station a				
	AM Amount	and the second s	Mml	When	A	A And		
	A.M. Amar		Mm	When	American	-h-h-l		
36.7 A.M. Marchard	A.M. Amar		Mund	hallan	Amminia	-A.A.A		
36.7 A. M. A.	A.M. Luman		Mund	La Man	hours	mhahal		
36.7 A.M. Marchard	314.5	315 Frequency (M		la Mhan	American			
36.7 18.3 0 314 314.2		Frequency (M	IHZ)	WW When	American			
36.7 18.3 0 314 314.2 Re	adAntenna Cable F	Frequency (M	Hz) Limit	Over	Remark			
36.7 18.3 0 314 314.2 Re Freq Lev	adAntenna Cable F	Frequency (M Preamp Factor Leve	Hz) Limit	Over	Remark	-1-1-1 316		
36.7 18.3 0 314 314.2 Freq Lev MHz dE 1 315.078 49.	adAntenna Cable F el Factor Loss F av dB/m dB 11 18.73 1.80	Frequency (M Preamp Factor Leve dB dBuV/ 0.00 69.6	Hz) Limit 1 Line m dBuV/m -	Over Limit 				
18.3 0 314 314.2 Freq Lev MHz dE	adAntenna Cable F el Factor Loss F av dB/m dB - 11 18.73 1.80	Frequency (M Preamp Factor Leve dB dBuV/	Hz) Limit 1 Line m dBuV/m -	Over Limit 				







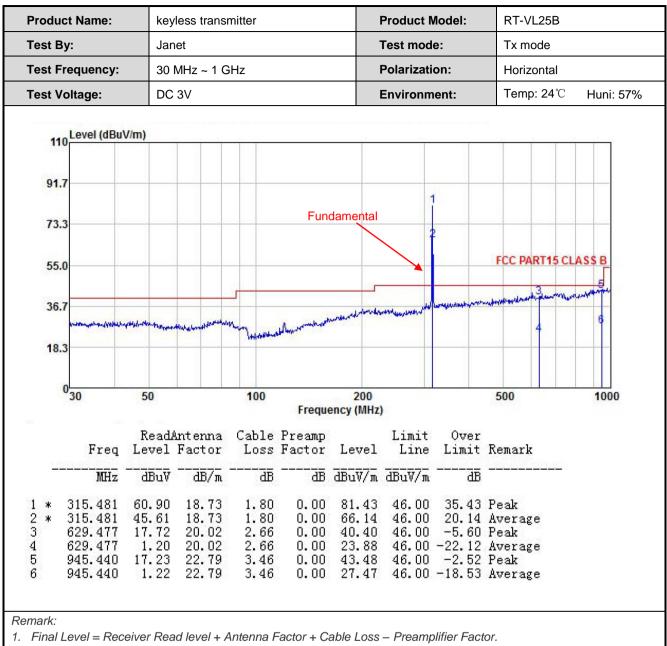
6.2.2 Spurious Emissions

Produ	Product Name: keyless trans				Produ		Produc	ct Model:	RT-VL2	RT-VL25B	
Test E	Test By:JanetTest Frequency:30 MHz ~ 1 0						Test mode:		Tx mod	Tx mode	
Test F					GHz			Polarization:		Vertical	
Test V	/oltage:	DC 3V Environment:			Temp: 2	24 ℃	Huni: 57%				
	evel (dBuV/r	n)									
110-											
91.7											
70.0					sigi	nalFundai	mental				
73.3								1			
									FCC PART	15 CLASS	B
55.0								2			5
				1					me approximation 3	nemenant	- Mar
36.7			4.600-00			And Harman	Very a primet	noursenant	4		6
Γ	an a	and halferray	we get a start and	the land	Higher						
18.3											
0 [_] 3	0	50		100	From	200 ency (MHz	•		500		1000
					224030240	ency (wn	2011 100000 000 0000	2			
	Freq		Antenna Factor		Preamp Factor	Level	Limit Line	Over Limit	Remark		
	MHz	dBu∛			₫₿	dBuV/m	dBuV/m	<u>d</u> B		20	
1 *	315.481	45.23	18.73	1.80	0.00	65.76	46.00				
2 * 3	315.481	30.52	18.73	1.80					Average		
3	629.477	17.60	20.02	2.66	0.00		46.00	-5.72			
4	629.477	4.00	20.02	2.66		26.68			Average		
5	945.440	17.39	22.79	3.46	0.00	43.64		-2.36			
6	945.440	1.31	22.79	3.46	0.00	27.56	46.00	-18.44	Average		

Remark:

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







Product N	ame:	keyless trans	smitter		Product I	Model:	RT-VL25	БB	
Test By: Test Frequency: Test Voltage:		Janet			Test mode:		Tx mode		
		1 GHz ~ 6 GHz DC 3V			Polarization: Environment:		Vertical Temp: 24°C Huni: 57%		
									90 80 70 80 70 60 50 30 30 40 30 40 30 40 30 40 30 40 40 40 40 40 40 40 40 40 40 40 40 40
10 0 1G	PK Limit -	AV Limit Ve	2G artical PK — Vertical	Frequency[3G Hz]	4	lG	5G 6G	
0 1G		AV Detector				4	G	5G 6G	
0 1G	PK Detector	AV Detector				4 Margin⊮ [dB]∞	G Trace	5G 6G Polarity	
0 1G	 PK Detector ected Data Freq/ 	 AV Detector List → Reading → 	ertical PK Vertical Level	AV Factor	tz] Limit∉	Margin			
Susp	PK Detector ected Data Freq. [MHz].	 AV Detector List ∈ Reading ∈ [dBµV/m] ∈ 	ertical PK — Vertical Level. [dBµV/m]	AV Factor [dB]	Limit [dBµV/m]	Margin⊮ [dB]∞	Trace	Polarity	
0 1G Susp NO.0	 PK Detector ected Data Freq [MHz] 1260.02 	 AV Detector List → Reading → [dBµV/m] → 57.34 → 	Level [dBµV/m] 33.03	AV Factor. [dB]. -24.31.	Limit [dBµV/m]⊷ 74.00↔	Margin.∉ [dB].∉ 40.97.∉	Trace. PK.	Polarity∞ Vertical∞	
0 1G Susp NO.~ 1~ 2~	 PK Detector ected Data Freq	 AV Detector List. Reading. [dBµV/m]. 57.34. 49.61. 	Level [dBµV/m]. 33.03. 25.30.	AV Factor [dB] -24.31 -24.31	Limit [dBµV/m] 74.00. 54.00.	Margin. [dB].₀ 40.97.₀ 28.70.₀	Trace. PK. AV.	Polarity∞ Vertical∞ Vertical∞	
0 1G Susp NO. 2 3 0	 PK Detector ected Data Freq [MHz] 1260.02 1260.02 1575.05 	• AV Detector List Reading [dBµV/m] 57.34 49.61 66.62 •	Level [dBµV/m] 33.03 25.30 43.63	AV Factor [dB] -24.31 -24.31 -22.99	Limit [dBµV/m] 74.00. 54.00. 74.00.	Margin. [dB] 40.97. 28.70. 30.37.	Trace PK AV PK	Polarity. Vertical. Vertical. Vertical.	
0 1G Susp NO.* 1 2 0 3 0 4	 PK Detector ected Data Freq [MHz] 1260.02 1260.02 1575.05 1575.05 	• AV Detector List Reading [dBµV/m]= 57.34, 49.61, 66.62, 64.38, 0	Level. [dBµV/m]. 33.03. 25.30. 43.63. 41.39.	AV Factor. [dB]. -24.31. -22.99. -22.99.	Limit [dBµV/m] 74.00 54.00 54.00 54.00	Margin. [dB] 40.97. 28.70. 30.37. 12.61.	Trace PK AV PK AV AV	Polarity Vertical Vertical Vertical Vertical	
0 1G Susp NO.¢ 1¢ 2¢ 3¢ 4¢ 5¢	 PK Detector ected Data Freq	 AV Detector List. Reading. [dBµV/m]. 57.34 49.61 66.62 64.38 57.58 51.09 	Level [dBµV/m]. 33.03. 25.30. 43.63. 41.39. 36.12.	AV Factor [dB] -24.31 -24.31 -22.99 -22.99 -22.99 -21.46	Limit [dBµV/m] 74.00.0 54.00.0 54.00.0 54.00.0 74.00.0	Margin [dB] 40.97 28.70 30.37 12.61 37.88 24.37	Trace PK AV PK AV PK AV AV	Polarity Vertical Vertical Vertical Vertical Vertical Vertical	
0 1G Susp NO. 2 2 3 0 4 0 5 0 6 7	 PK Detector ected Data Freq [MHz] 1260.02 1260.02 1575.05 1575.05 1890.08 1890.08 2205.12 	 AV Detector List Reading [dBµV/m] 57.34.0 49.61.0 66.62.0 64.38.0 57.58.0 51.09.0 53.18.0 	Level. [dBµV/m]. 33.03. 25.30. 43.63. 41.39. 36.12. 29.63. 33.09.	AV Factor. [dB]. -24.31. -24.31. -22.99. -22.99. -21.46. -21.46. -21.46.	Limit [dBµV/m] 74.00 54.00 54.00 54.00 54.00 54.00 54.00 54.00 54.00	Margin. [dB] 40.97. 28.70. 30.37. 12.61. 37.88. 24.37. 20.91.	Trace PK AV PK AV PK AV AV AV AV AV	Polarity Vertical Vertical Vertical Vertical Vertical Vertical Vertical	
0 1G Susp NO. 2 2 3 0 4 0 5 0 6 0 7 0 8 8	 PK Detector ected Data Freq	 AV Detector List. Reading	Level. [dBµV/m]. 33.03. 25.30. 43.63. 41.39. 36.12. 29.63. 33.09. 33.09. 37.21.	AV Factor [dB] -24.31 -24.31 -22.99 -22.99 -21.46 -21.46 -21.46 -20.09 -20.09	Limit [dBµV/m]• 74.00• 54.00• 54.00• 54.00• 54.00• 54.00• 54.00• 54.00• 74.00•	Margin. [dB] 40.97. 28.70. 30.37. 12.61. 37.88. 24.37. 20.91. 36.79.	Trace PK AV PK AV PK AV PK AV PK PK PK AV PK AV	Polarity Vertical Vertical Vertical Vertical Vertical Vertical Vertical Vertical	
0 16 Susp NO.• 1• 2• 3• 4• 5• 6• 7• 8• 9•	 PK Detector ected Data Freq// [MHz]-/ 1260.02 1260.02 1575.05 1575.05 1575.05 1890.08 2890.08 2205.12 2205.12 2520.15 	 AV Detector List. Reading. [dBµV/m]. 57.34 49.61 66.62 64.38 57.58 51.09 53.18 57.30 57.30 57.75 	Level- [dBµV/m]- 33.03- 25.30- 43.63- 41.39- 36.12- 29.63- 33.09- 33.09- 37.21- 38.65-	AV Factor [dB]. -24.31. -24.31. -22.99. -22.99. -22.99. -21.46. -21.46. -20.09. -20.09. -19.10.	Limit [dBµV/m] 74.00.0 54.00.0 54.00.0 74.00.0 54.00.0 54.00.0 74.00.0 74.00.0 74.00.0 74.00.0	Margin. [dB]. 40.97. 28.70. 30.37. 12.61. 37.88. 24.37. 20.91. 36.79. 35.35.	Trace PK AV PK AV PK AV PK AV PK AV PK AV PK	Polarity Vertical Vertical Vertical Vertical Vertical Vertical Vertical Vertical Vertical	
0 16 Susp NO. 2 2 0 3 0 4 0 5 0 6 0 7 0 8 8	 PK Detector ected Data Freq	 AV Detector List. Reading	Level. [dBµV/m]. 33.03. 25.30. 43.63. 41.39. 36.12. 29.63. 33.09. 33.09. 37.21.	AV Factor [dB] -24.31 -24.31 -22.99 -22.99 -21.46 -21.46 -21.46 -20.09 -20.09	Limit [dBµV/m]• 74.00• 54.00• 54.00• 54.00• 54.00• 54.00• 54.00• 74.00• 74.00•	Margin. [dB] 40.97. 28.70. 30.37. 12.61. 37.88. 24.37. 20.91. 36.79.	Trace PK AV PK AV PK AV PK AV PK PK PK AV PK AV	Polarity Vertical Vertical Vertical Vertical Vertical Vertical Vertical Vertical	

Remark:

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



	Test By: Test Frequency:		Janet			Test mode:		Tx mode		
			1 GHz ~ 6 GHz DC 3V			Polariza	Polarization:		Horizontal	
Test Voltage:		-				Environ	ment:	Temp: 24°C Huni: 57%		
81 74 66 74 75 75 75 75 75 75 75 75 75 75 75 75 75	00 90 80 70 60 50 40 30 40 10 10 110	۵۰۰ ۵۰۰ ۱۰۰ ۱۰۰ ۱۰۰ ۱۰۰ ۱۰۰ ۱۰۰ ۱۰۰ ۱۰۰	4 3 2. <u></u>	5 5 6 9	FCC PART 1	0 11 0 11 3G	میں اور		FCC PART 15 B-PK Limit	
	_	PK Limit — PK Detector	AV Limit Ho AV Detector	orizontal PK — Horiz	Frequency[I zontal AV	Hz]				
	•		AV Detector	orizontal PK — Horiz		12]				
Su	•	PK Detector	AV Detector	nizontal PK — Horiz Level [dBµV/m].~		Limit [dBµV/m]	Margin⊮ [dB]∞	Trace⊳	Polarity∞	
Su	• uspec	cted Data Freq.↔	AV Detector	Level	zontal AV Factor.₀	Limite		Trace-	Polarity∞ Horizontal∞	
Su No	• uspec lO.₀ 1₀	ected Data Freq [MHz]	AV Detector	Level.₀ [<u>dBµV</u> /m].₀	rontal AV Factor.e [dB].e	Limit⊮ [dBµV/m]⊮	[dB]			
Su No	• IO.• 1.• 2.•	ected Data Freq [MHz] 1260.02	AV Detector	Level [dBµV/m] 26.45.	Factor [dB] -24.31	Limit. [dBµV/m]∝ 54.00⊷	[dB]₀ 27.55₊	AV.	Horizontal.	
Su No 1 2 3	• uspec 10 2 3	PK Detector cted Data Freq [MHz] 1260.02 1260.02	AV Detector List Reading [dBµV/m] 50.76 56.96	Level [dBµV/m] 26.45 32.65 44.56 50.43	Factor. [dB]. -24.31.	Limit [dBµV/m] 54.00₊ 74.00₊	[dB]∍ 27.55₊ 41.35₊	AV. PK.	Horizontal. Horizontal.	
Su No 1 2 3 4	• uspec 10 2 3	PK Detector cted Data Freq [MHz] 1260.02 1260.02 1575.05	AV Detector List Reading [dBµV/m] 50.76 56.96 67.55	Level. [dBµV/m]. 26.45. 32.65. 44.56.	Factor- [dB]. -24.31. -22.99.	Limit [dBµV/m] 54.00 74.00 54.00	[dB] 27.55 41.35 9.44	AV. PK.	Horizontal Horizontal Horizontal	
Su No 1 2 3 4 4 5	• IO.• 1• 2• 3• 4•	PK Detector cted Data Freq [MHz] 1260.02 1260.02 1575.05 1575.05	AV Detector List Reading [dBµV/m] 50.76 56.96 67.55 73.42	Level [dBµV/m] 26.45 32.65 44.56 50.43	Factor. [dB]. -24.31. -22.99. -22.99.	Limit [dBµV/m] 54.00 74.00 54.00 74.00	[dB] 27.55. 41.35. 9.44. 23.57.	AV. PK. AV.	Horizontal Horizontal Horizontal Horizontal	
Su No 1 2 3 4 5 6	• IO.• 1• 2• 3• 4• 5• 6•	PK Detector cted Data Freq [MHz] 1260.02 1260.02 1575.05 1575.05 1890.08	AV Detector List Reading [dBµV/m] 50.76 56.96 67.55 73.42 68.95	Level [dBµV/m] 26.45. 32.65. 44.56. 50.43. 47.49.	Factor. [dB]. -24.31. -22.99. -22.99. -21.46.	Limit [dBµV/m] 54.00 54.00 54.00 54.00 74.00 74.00	[dB] 27.55- 41.35- 9.44- 23.57- 26.51-	AV. PK. AV. PK.	Horizontal Horizontal Horizontal Horizontal Horizontal	
Su N0 1 2 3 4 5 6 7	• IO 1 2 3 4 5 6 7	PK Detector cted Data Freq [MHz] 1260.02 1260.02 1575.05 1575.05 1890.08 1890.08	 AV Detector List Reading [dBµV/m] 50.76 56.96 67.55 73.42 68.95 57.25 	Level [dBµV/m] 26.45 32.65 44.56 50.43 47.49 35.79	Factor [dB]- -24.31- -22.99- -22.99- -21.46- -21.46-	Limit [dBµV/m] 54.00.0 74.00.0 54.00.0 74.00.0 74.00.0 54.00.0	[dB] 27.55+ 41.35+ 9.44+ 23.57+ 26.51+ 18.21+	AV. PK. AV. PK. PK. AV.	Horizontal Horizontal Horizontal Horizontal Horizontal Horizontal	
Su No 1 2 3 4 5 6 6 7 7 8	◆ IO 1 2 3 4 5 6 7 8	PK Detector cted Data Freq [MHz] 1260.02 1260.02 1575.05 1575.05 1890.08 1890.08 2205.12	AV Detector Elist Reading [dBµV/m] 50.76 56.96 67.55 73.42 68.95 57.25 56.75 56.75	Level [dBµV/m] 26.45 32.65 32.65 50.43 50.43 35.79 35.79 36.66	Factor [dB]- -24.31 -22.99 -22.99 -21.46 -21.46 -20.09	Limit [dBµV/m] 54.00 74.00 54.00 74.00 54.00 54.00 74.00	[dB] 27.55 41.35 9.44 23.57 26.51 18.21 37.34	AV.0 PK.0 AV.0 PK.0 PK.0 AV.0 PK.0	Horizontal Horizontal Horizontal Horizontal Horizontal Horizontal Horizontal	
Su No 1 2 3 4 5 6 7 7 8 8 9	◆ IO 1 2 3 4 5 6 7 8 9	PK Detector cted Data Freq [MHz], 1260.02 1260.02 1575.05 1575.05 1575.05 1890.08 1890.08 2205.12 2205.12	AV Detector Elist Reading [dBµV/m] 50.76 56.96 67.55 73.42 68.95 57.25 56.75 56.75 49.47	Level [dBµV/m] 26.45 32.65 44.56 50.43 47.49 35.79 36.66 29.38	Factor. [dB]. -24.31. -24.31. -22.99. -22.99. -21.46. -21.46. -20.09.	Limit [dBµV/m] 54.00 74.00 54.00 74.00 54.00 54.00 54.00 54.00 54.00	[dB] 27.55- 41.35- 9.44- 23.57- 26.51- 18.21- 37.34- 24.62-	AV. PK. AV. PK. PK. AV. AV.	Horizontal Horizontal Horizontal Horizontal Horizontal Horizontal Horizontal	
Su NO 1 2 3 4 5 6 7 8 9 9 1	• IO 1 2 3 4 5 6 7 8 9 10	PK Detector cted Data Freq [MHz] 1260.02 1260.02 1575.05 1575.05 1575.05 1890.08 2205.12 2205.12 2520.15	 AV Detector List Reading [dBµV/m] 50.76 56.96 67.55 73.42 68.95 57.25 56.75 49.47 60.30 	Level [dBµV/m] 26.45 32.65 44.56 50.43 50.43 47.49 35.79 36.66 29.38 41.20	Factor. [dB]. -24.31. -24.31. -22.99. -22.99. -21.46. -21.46. -20.09. -20.09. -19.10.	Limit [dBµV/m] 54.00.0 74.00.0 74.00.0 74.00.0 74.00.0 54.00.0 54.00.0 74.00.0 74.00.0	[dB] 27.55 41.35 9.44 23.57 26.51 18.21 37.34 24.62 32.80	AVφ PKφ AVφ PKφ AVφ PKφ AVφ PKφ AVφ PKφ AVφ	Horizontal Horizontal Horizontal Horizontal Horizontal Horizontal Horizontal Horizontal	

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



6.3 20dB Bandwidth

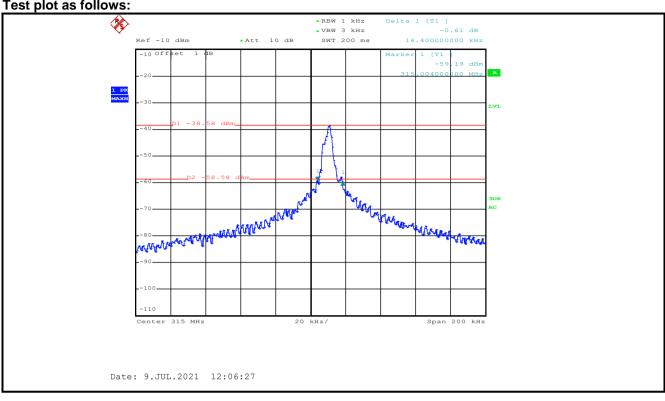
Test Requirement:	FCC Part15 C Section 15.231 (c)
Receiver setup:	RBW=1kHz, VBW=3kHz, detector: Peak
Limit:	The bandwidth of the emission shall be no wider than 0.25% of the center frequency for devices operating above 70 MHz and below 900 MHz. For devices operating above 900 MHz, the emission shall 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:	 According to the follow Test-setup, keep the relative position between the artificial antenna and the EUT. Set the EUT to proper test channel. Max hold the radiated emissions, mark the peak power frequency point and the -20dB upper and lower frequency points. Read 20dB bandwidth.
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane
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)	Limit (MHz)	Results
0.0144	0.7875	Passed

Note: Limit= Fundamental frequencyx0.25%=315x0.25%=0.7875MHz





Test plot as follows:



6.4 Duration Time

Test Requirement:	FCC Part15 C Section 15.231 (a)				
Receiver setup:	RBW=100kHz, VBW=300kHz, span=0Hz, detector: Peak				
Limit:	Not more than 5 seconds				
Test mode:	Transmitting mode				
Test Procedure:	 According to the follow Test-setup, keep the relative position between the artificial antenna and the EUT. Set the EUT to proper test channel. Single scan the transmission, and read the transmission time. 				
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane				
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
0.360	<5.0	Pass



