

FCC REPORT

Applicant: Remote Tech LLC

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

Equipment Under Test (EUT)

Product Name: Smart key

Model No.: RT-FD265, RT-FD264

FCC ID: 2AOKM-FD14

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

Date of sample receipt: 06 May, 2021

Date of Test: 07 May, to 23 Jun, 2021

Date of report issue: 24 Jun, 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.

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2 Version

Version No.	Date	Description
00	24 May, 2021	Original
01	24 Jun, 2021	<ol style="list-style-type: none"> 1. Updated test frequency range on page 8. 2. Updated limits on page 8/10. 3. Updated test data on page 13 to Page 24.

Prepared By: Janet Wei **Date:** 24 Jun, 2021
Test Engineer

Check By: Winner Zhang **Date:** 24 Jun, 2021
Project Engineer

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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 (b)	Pass
Spurious emissions	15.231 (b)/15.209	Pass
20dB Bandwidth	15.231 (c)	Pass
Duration Time	15.231 (a)(1)	Pass
Conducted Emission	15.207	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).		
Test Method:	ANSI C63.4-2014 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:	Smart key
Model No.:	RT-FD265, RT-FD264
Operation Frequency:	902.375MHz, 903.425MHz
Channel numbers:	2
Modulation type:	FSK
Antenna Type:	PCB antenna
Antenna gain:	-5.0 dBi
Power supply:	DC 3V (CR2450 battery)
Test Sample Condition:	The test samples were provided in good working order with no visible defects.
Remark:	All models are identical inside, including the electrical circuit design, layout, components used and internal wiring. Models RT-FD265, RT-FD264 represent appearance of the key with 3 and 4 buttons on the shell. The PCB function is the same for all these models.

5.3 Test mode

Transmitting mode:	Keep the EUT in transmitting mode with modulation (new battery used)		
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:			
902.375MHz			
Axis	X	Y	Z
Field Strength(dBuV/m)	86.49	85.33	87.14
903.425MHz			
Axis	X	Y	Z
Field Strength(dBuV/m)	85.40	85.91	86.88
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

<p>The test facility is recognized, certified, or accredited by the following organizations:</p> <ul style="list-style-type: none"> ● 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
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5.8 Laboratory Location

<p>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@ccis-cb.com, Website: http://www.ccis-cb.com</p>
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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	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	11-18-2020	11-17-2021
Loop Antenna	SCHWARZBECK	FMZB1519B	00044	03-03-2021	03-02-2022
EMI Test Software	AUDIX	E3	Version: 6.110919b		
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	11-18-2020	11-17-2021
EMI Test Receiver	Rohde & Schwarz	ESRP7	101070	03-03-2021	03-02-2022
Simulated Station	Anritsu	MT8820C	6201026545	03-03-2021	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

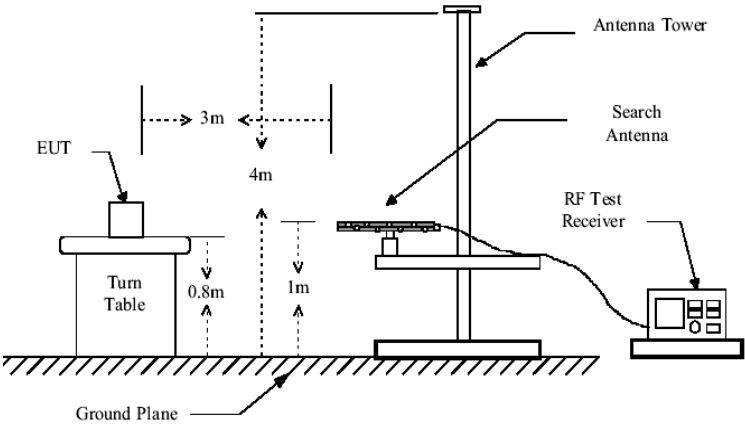
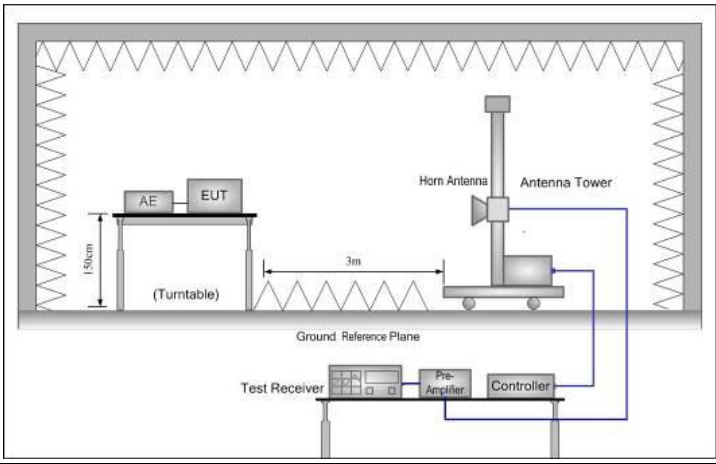
6 Test results and Measurement Data

6.1 Antenna requirement

Standard requirement:	FCC Part15 C Section 15.203
<p>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.</p>	
E.U.T Antenna:	
The EUT make use of a PCB antenna, The typical gain of the antenna is -5.0dBi.	

6.2 Radiated Emission

Test Requirement:	FCC Part15 C Section 15.231(a) and 15.209				
Test Frequency Range:	30MHz to 10GHz				
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	
	902.375 MHz	81.94		Average Value	
		101.94		Peak Value	
	903.425MHz	81.94		Average Value	
		101.94		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:	<p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</p> <p>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.</p>				

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

6.2.1 Field Strength Of The Fundamental Signal

902.375MHz

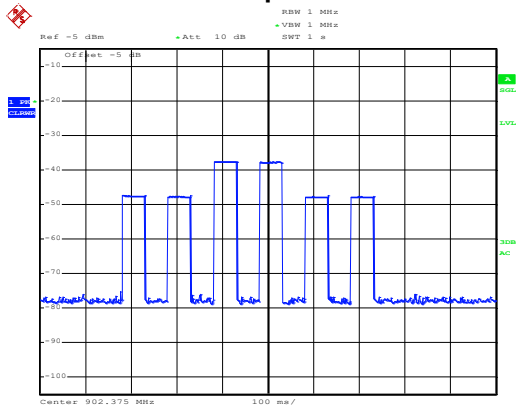
Peak value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
902.375	54.97	22.61	3.37	0.00	80.95	101.94	-20.99	Vertical
902.375	61.16	22.61	3.37	0.00	87.14	101.94	-14.80	Horizontal
Average value								
Frequency (MHz)	Level (dBuV/m)	Duty Cycle factor	Average value (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization		
902.375	80.95	-5.91	75.04	81.94	-6.90	Vertical		
902.375	87.14	-5.91	81.23	81.94	-0.71	Horizontal		
Calculate Formula:		Average value=Peak value + Duty Cycle Factor						
		Duty cycle factor = 20log(Duty cycle)						
		Duty cycle = on time/100 milliseconds or period, whichever is less						
Test data:		T on time =50.64(ms)						
		T period =100(ms)						
		Duty cycle =50.64%						
		Duty cycle factor = 20log(Duty cycle) = -5.91						

903.425MHz

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
903.425	55.58	22.61	3.37	0.00	81.56	101.94	-20.38	Vertical
903.425	60.90	22.61	3.37	0.00	86.88	101.94	-15.06	Horizontal
Average value								
Frequency (MHz)	Level (dBuV/m)	Duty Cycle factor	Average value (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization		
903.425	81.56	-5.87	75.69	81.94	-6.25	Vertical		
903.425	86.88	-5.87	81.01	81.94	-0.93	Horizontal		
Calculate Formula:		Average value=Peak value + Duty Cycle Factor						
		Duty cycle factor = 20log(Duty cycle)						
		Duty cycle = on time/100 milliseconds or period, whichever is less						
Test data:		T on time =50.88(ms)						
		T period =100(ms)						
		Duty cycle =50.88%						
		Duty cycle factor = 20log(Duty cycle) =-5.87						

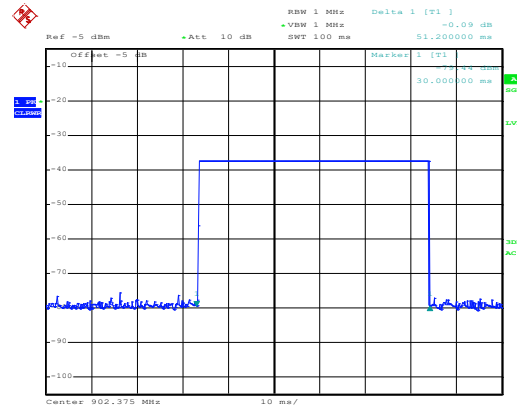
902.375MHz

T period:



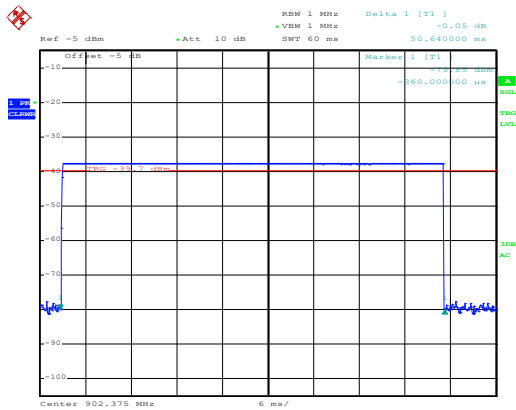
Date: 10.MAY.2021 17:46:11

T 100ms:



Date: 10.MAY.2021 17:46:39

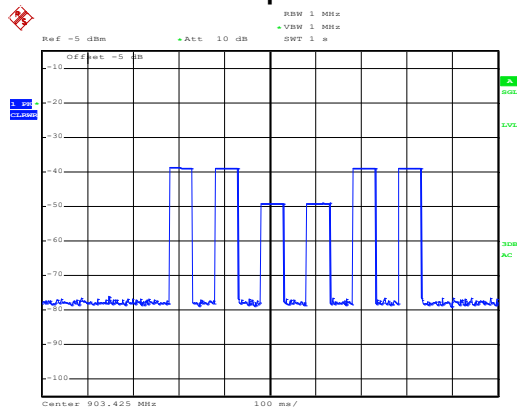
T 60ms:



Date: 10.MAY.2021 17:47:10

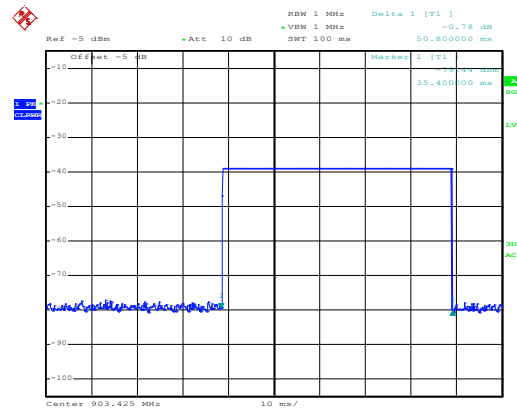
903.425MHz

T period:



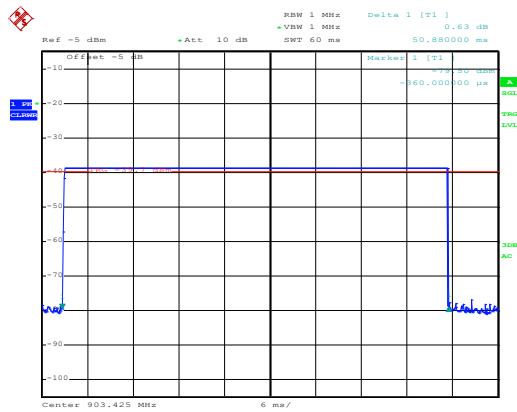
Date: 10.MAY.2021 17:42:12

T 100ms:



Date: 10.MAY.2021 17:43:23

T 60ms:

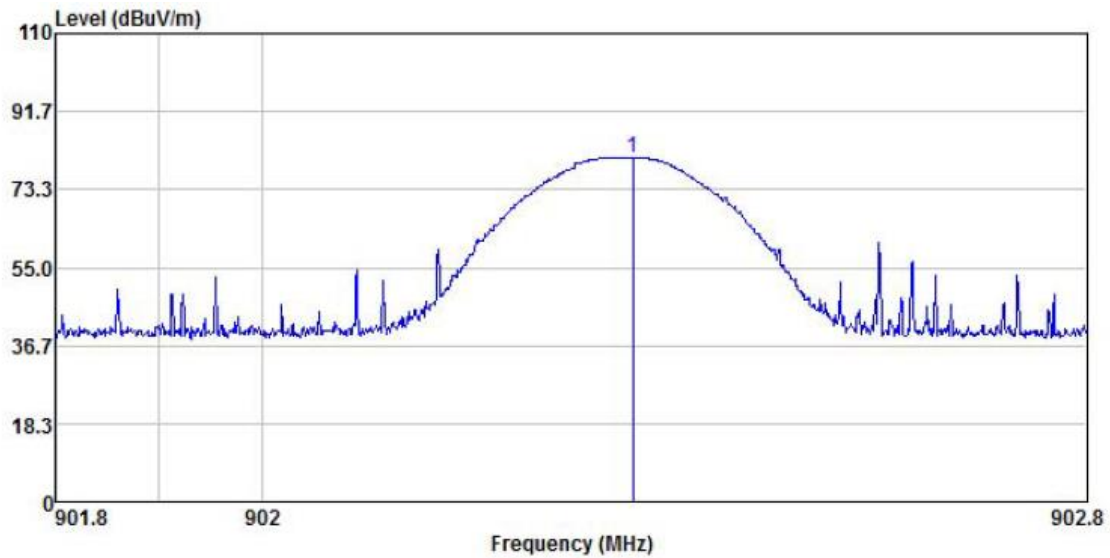


Date: 10.MAY.2021 17:43:56

Test Plots:

902.375MHz:

Product Name:	Smart key	Product Model:	RT-FD265
Test By:	Janet	Test mode:	Tx mode
Test Frequency:	902.375MHz	Polarization:	Vertical
Test Voltage:	DC 3V	Environment:	Temp: 24°C Huni: 57%

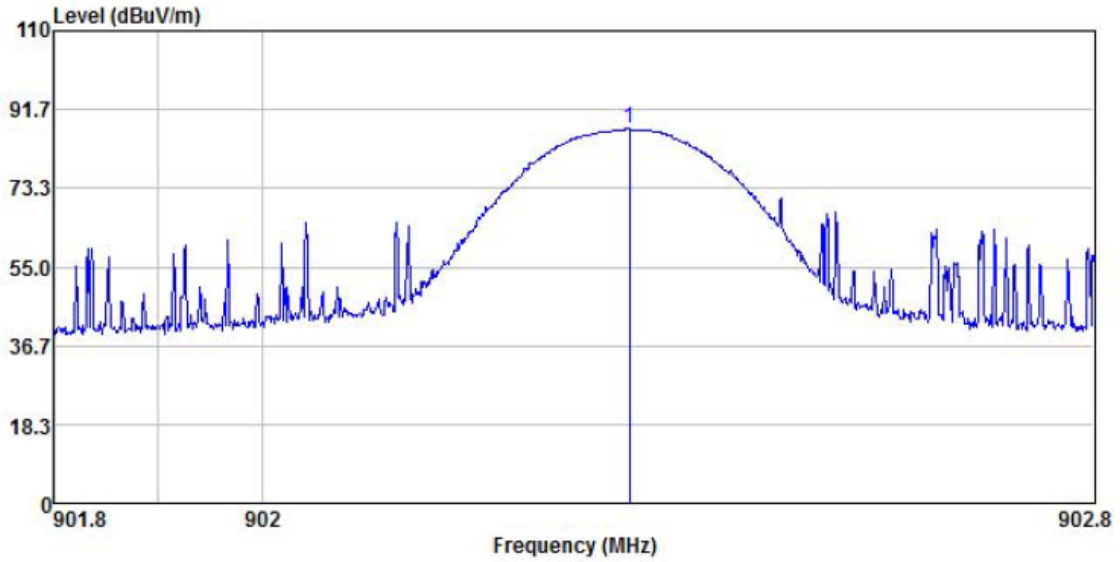


-----		ReadAntenna	Cable Preamp	Limit	Over				
	Freq	Level	Loss	Factor	Level	Line			
	MHz	dBuV	dB/m	dB	dB	dBuV/m			
	1	902.360	54.97	22.61	3.37	0.00	80.95	-----	-----

Remark:

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

Product Name:	Smart key	Product Model:	RT-FD265
Test By:	Janet	Test mode:	Tx mode
Test Frequency:	902.375MHz	Polarization:	Horizontal
Test Voltage:	DC 3V	Environment:	Temp: 24°C Huni: 57%



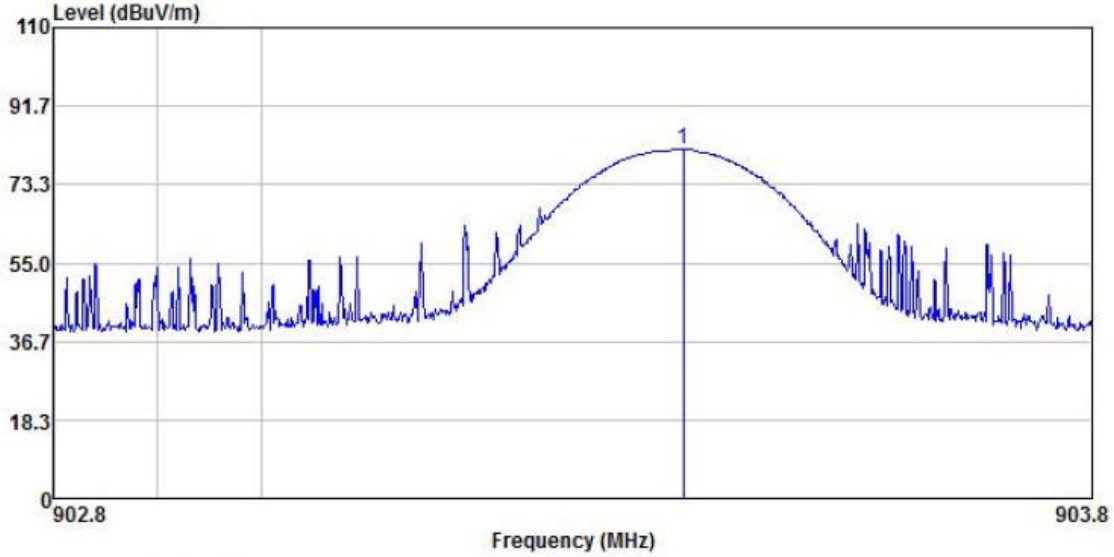
	ReadAntenna	Cable Preamp	Limit	Over					
Freq	Level	Factor	Loss	Factor	Level				
MHz	dBuV	dB/m	dB	dB	dBuV/m				
1	902.353	61.16	22.61	3.37	0.00	87.14	-----	-----	

Remark:

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

903.425MHz:

Product Name:	Smart key	Product Model:	RT-FD265
Test By:	Janet	Test mode:	Tx mode
Test Frequency:	903.425MHz	Polarization:	Vertical
Test Voltage:	DC 3V	Environment:	Temp: 24°C Humi: 57%

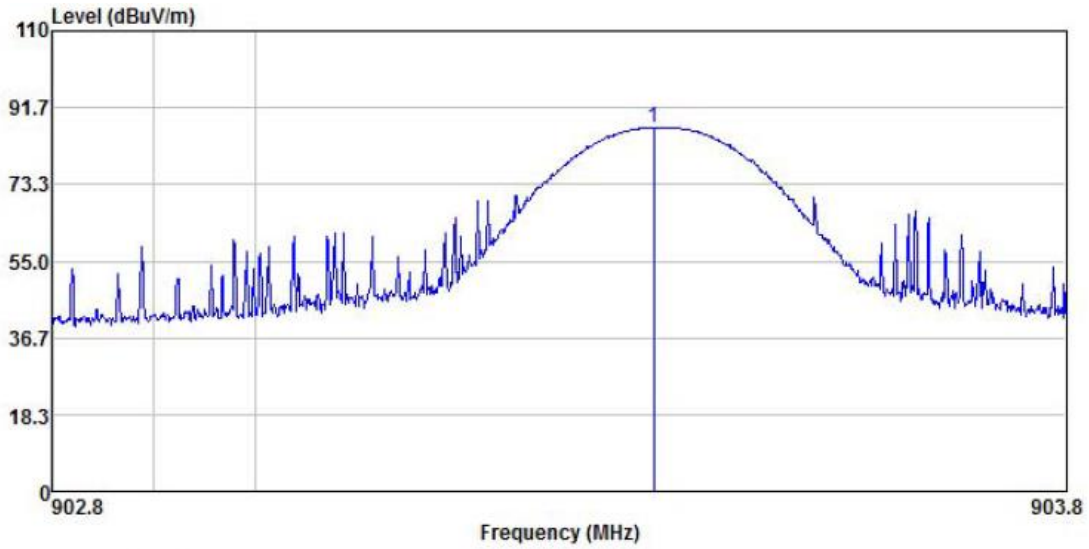


	Read	Antenna	Cable	Preamp	Level	Limit	Over	
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1 903.407	55.58	22.61	3.37	0.00	81.56	-----	-----	

Remark:

2. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Pre-amplifier Factor.

Product Name:	Smart key	Product Model:	RT-FD265
Test By:	Janet	Test mode:	Tx mode
Test Frequency:	903.425MHz	Polarization:	Horizontal
Test Voltage:	DC 3V	Environment:	Temp: 24°C Huni: 57%



	ReadAntenna	Cable Preamp	Limit	Over			
Freq	Level	Factor	Loss	Factor	Level	Line	Limit
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	903.393	60.90	22.61	3.37	0.00	86.88	-----

Remark:

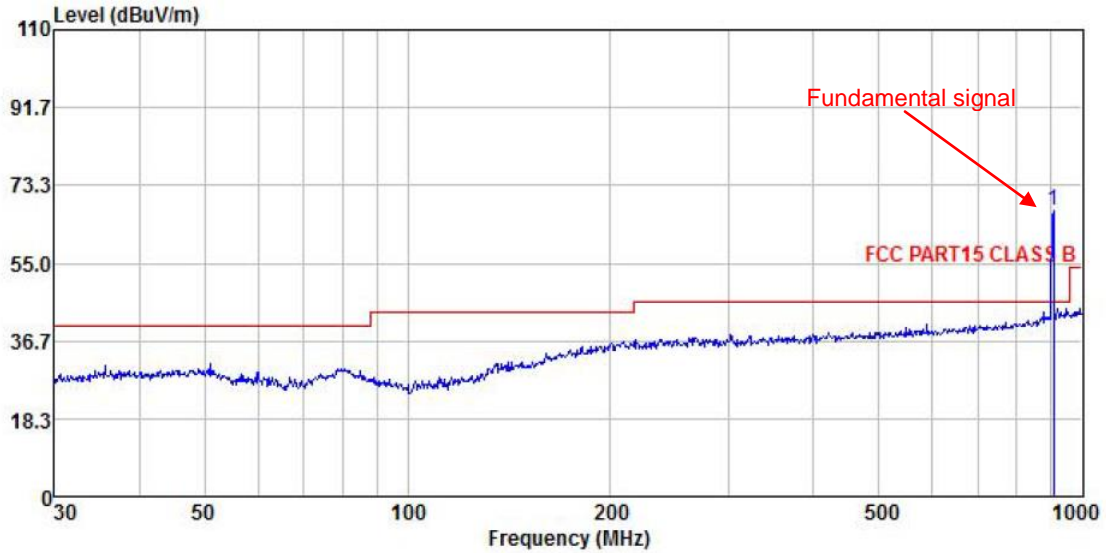
2. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.

6.2.2 Spurious Emissions

Test Plots:

902.375MHz

Product Name:	Smart key	Product Model:	RT-FD265
Test By:	Janet	Test mode:	Tx mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Vertical
Test Voltage:	DC 3V	Environment:	Temp: 24°C Huni: 57%

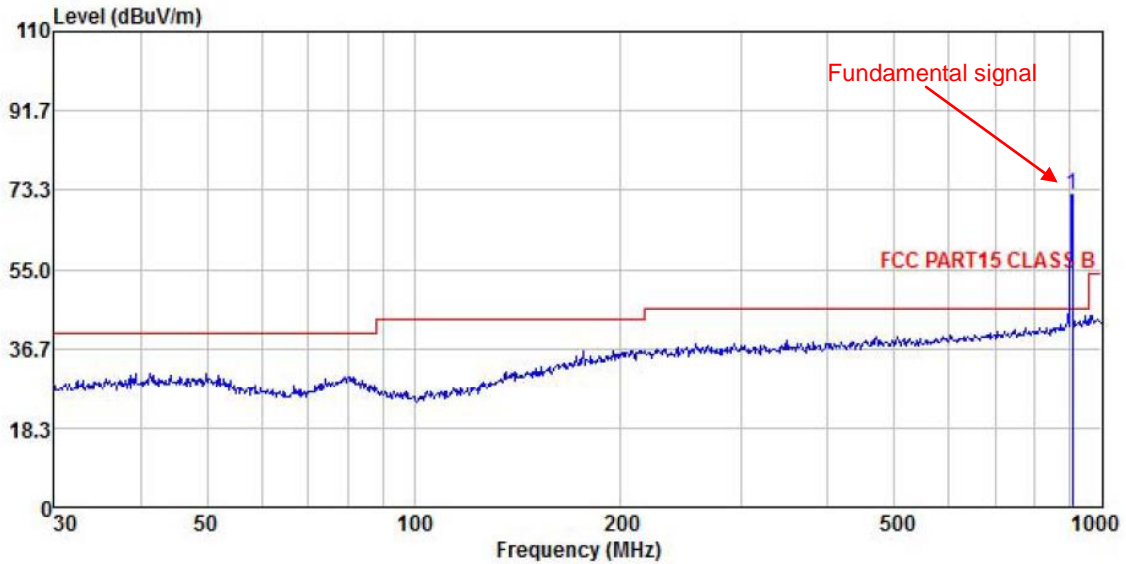


	Read	Antenna	Cable	Preamp	Limit	Over			
Freq	Level	Factor	Loss	Factor	Line	Limit	Remark		
-----	-----	-----	-----	-----	-----	-----	-----		
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1 *	906.482	41.27	22.63	3.37	0.00	67.27	46.00	21.27	PK

Remark:

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

Product Name:	Smart key	Product Model:	RT-FD265
Test By:	Janet	Test mode:	Tx mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Horizontal
Test Voltage:	DC 3V	Environment:	Temp: 24°C Humi: 57%



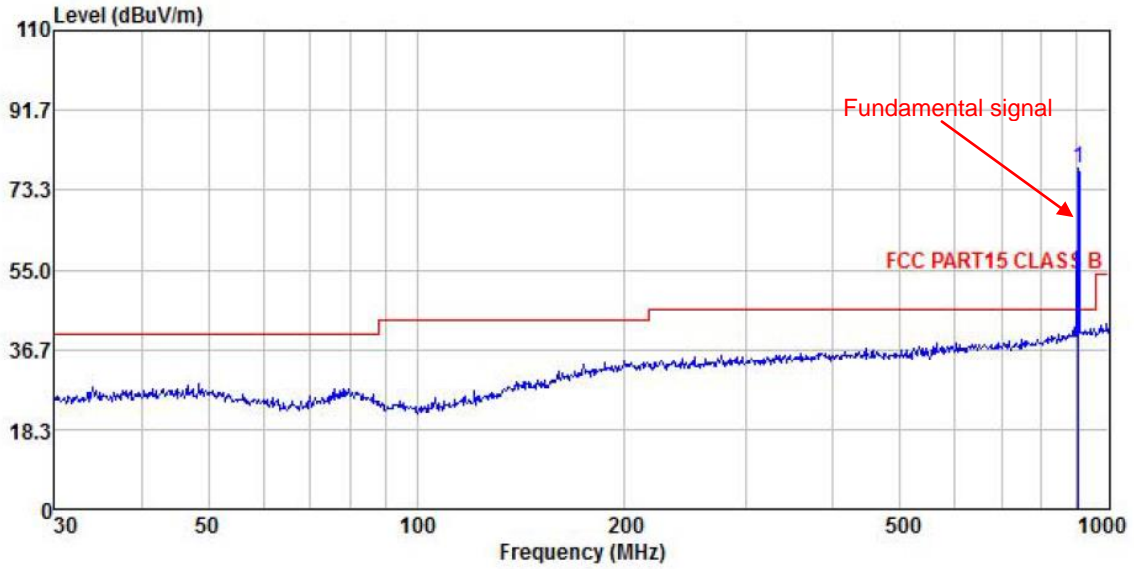
	Read	Antenna	Cable	Preamp	Limit	Over			
Freq	Level	Factor	Loss	Factor	Line	Limit	Remark		
-----	-----	-----	-----	-----	-----	-----	-----		
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m			
1 *	906.482	46.21	22.63	3.37	0.00	72.21	46.00	26.21	PK

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.

903.425MHz

Product Name:	Smart key	Product Model:	RT-FD265
Test By:	Janet	Test mode:	Tx mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Vertical
Test Voltage:	DC 3V	Environment:	Temp: 24°C Humi: 57%

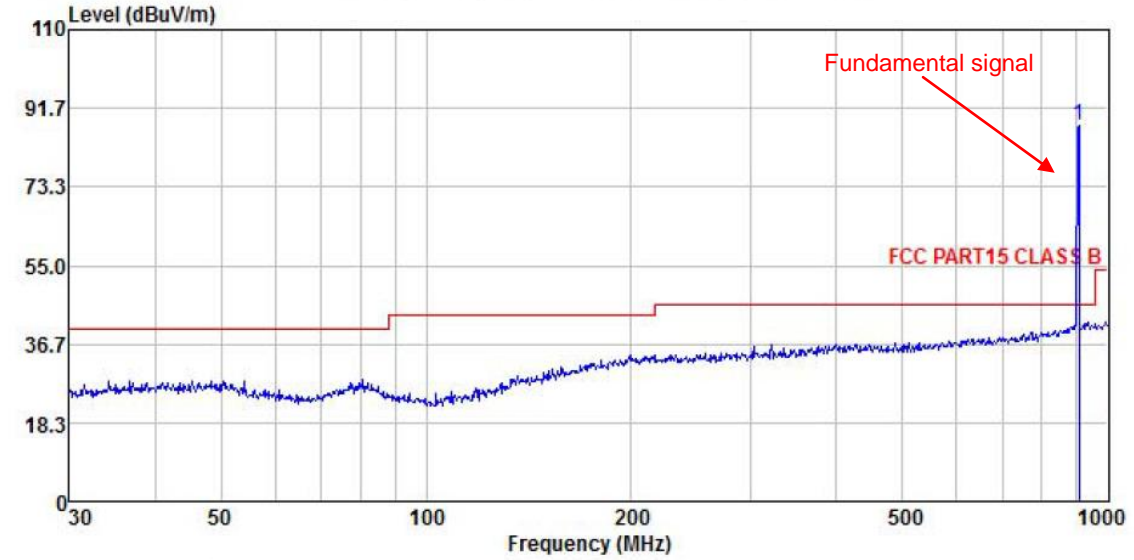


	Read	Antenna	Cable	Preamp	Limit	Over			
Freq	Level	Factor	Loss	Factor	Line	Limit	Remark		
-----	-----	-----	-----	-----	-----	-----	-----		
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1 *	903.309	52.25	22.61	3.37	0.00	78.23	46.00	32.23	PK

Remark:

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

Product Name:	Smart key	Product Model:	RT-FD265
Test By:	Janet	Test mode:	Tx mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Horizontal
Test Voltage:	DC 3V	Environment:	Temp: 24°C Huni: 57%



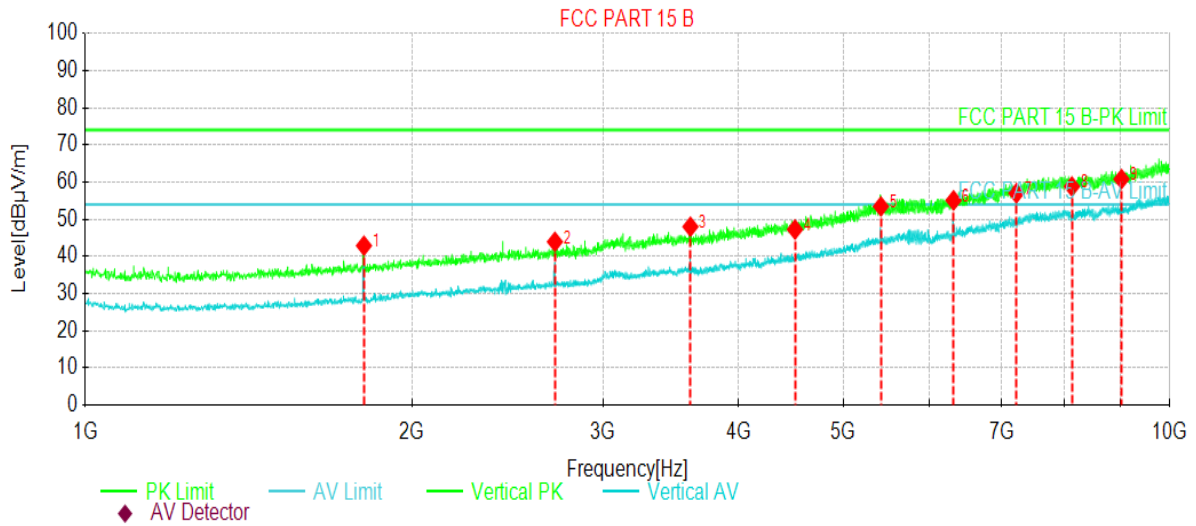
	ReadAntenna	Cable	Preamp	Limit	Over				
Freq	Level	Loss	Factor	Line	Limit	Remark			
-----	-----	-----	-----	-----	-----	-----			
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m			
1 *	906.482	61.54	22.63	3.37	0.00	87.54	46.00	41.54	PK

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.

902.375MHz

Product Name:	Smart key	Product Model:	RT-FD265
Test By:	Janet	Test mode:	Tx mode
Test Frequency:	1 GHz ~ 10 GHz	Polarization:	Vertical
Test Voltage:	DC 3V	Environment:	Temp: 24°C Huni: 57%

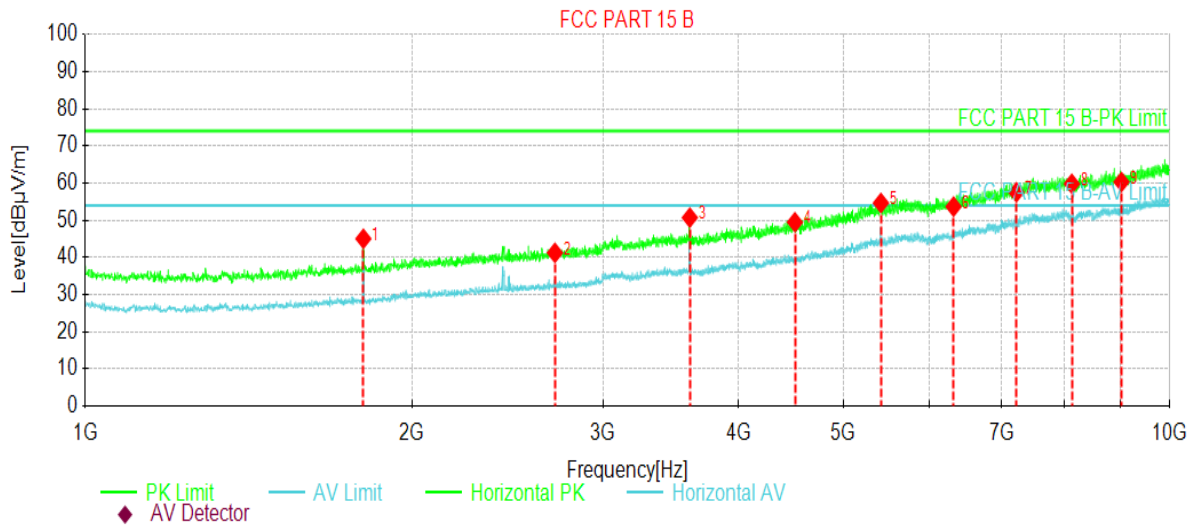


Suspected Data List								
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Trace	Polarity
1	1806.62	62.21	42.89	-19.32	74.00	31.11	PK	Vertical
2	2710.00	59.11	43.93	-15.18	74.00	30.07	PK	Vertical
3	3613.37	59.60	48.00	-11.60	74.00	26.00	PK	Vertical
4	4511.12	54.73	47.25	-7.48	74.00	26.75	PK	Vertical
5	5414.50	55.27	53.44	-1.83	74.00	20.56	PK	Vertical
6	6316.75	55.05	55.08	0.03	74.00	18.92	PK	Vertical
7	7219.00	52.84	57.00	4.16	74.00	17.00	PK	Vertical
8	8121.25	53.01	58.80	5.79	74.00	15.20	PK	Vertical
9	9023.50	53.86	60.81	6.95	74.00	13.19	PK	Vertical

Remark:

- 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.
- worse AV value = PK-duty cycle factor = 54.9 < 61.94

Product Name:	Smart key	Product Model:	RT-FD265
Test By:	Janet	Test mode:	Tx mode
Test Frequency:	1 GHz ~ 10 GHz	Polarization:	Horizontal
Test Voltage:	DC 3V	Environment:	Temp: 24°C Huni: 57%



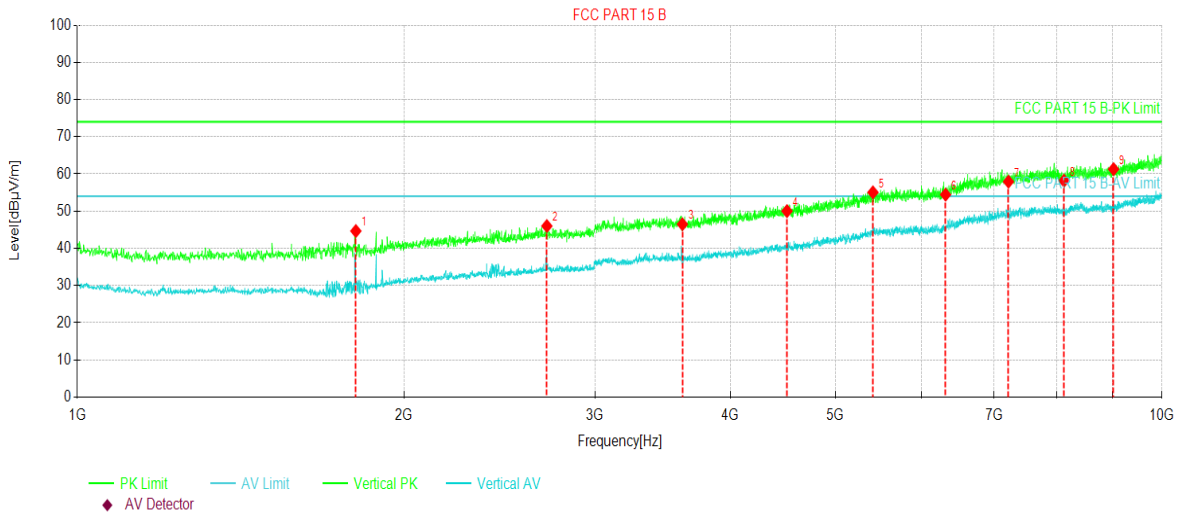
Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	1804.37	64.36	45.02	-19.34	74.00	28.98	PK	Horizontal
2	2710.00	56.41	41.23	-15.18	74.00	32.77	PK	Horizontal
3	3608.87	62.33	50.71	-11.62	74.00	23.29	PK	Horizontal
4	4511.12	56.94	49.46	-7.48	74.00	24.54	PK	Horizontal
5	5414.50	56.48	54.65	-1.83	74.00	19.35	PK	Horizontal
6	6316.75	53.64	53.67	0.03	74.00	20.33	PK	Horizontal
7	7219.00	53.38	57.54	4.16	74.00	16.46	PK	Horizontal
8	8121.25	54.03	59.82	5.79	74.00	14.18	PK	Horizontal
9	9023.50	53.35	60.30	6.95	74.00	13.70	PK	Horizontal

Remark:

- Level = Receiver Read level + Antenna Factor + Cable Loss – Pre-amplifier Factor.
- The emission levels of other frequencies are very lower than the limit and not show in test report.
- worse AV value = PK-duty cycle factor = 54.39 < 61.94

903.425MHz

Product Name:	Smart key	Product Model:	RT-FD265
Test By:	Janet	Test mode:	Tx mode
Test Frequency:	1 GHz ~ 10 GHz	Polarization:	Vertical
Test Voltage:	DC 3V	Environment:	Temp: 24℃ Huni: 57%

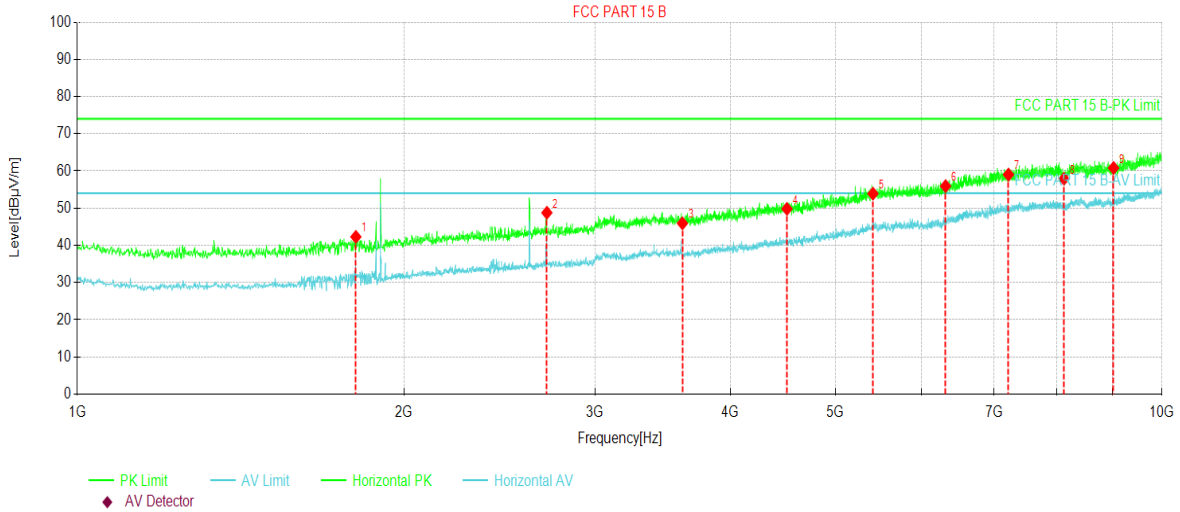


Suspected Data List								
NO.	Freq. [MHz]	Reading [dBuV/m]	Level [dBuV/m]	Factor [dB]	Limit [dBuV/m]	Margin [dB]	Trace	Polarity
1	1806.62	66.03	44.66	-21.37	74.00	29.34	PK	Vertical
2	2710.00	63.59	46.00	-17.59	74.00	28.00	PK	Vertical
3	3613.37	61.32	46.47	-14.85	74.00	27.53	PK	Vertical
4	4511.12	60.77	50.01	-10.76	74.00	23.99	PK	Vertical
5	5414.50	61.00	55.05	-5.95	74.00	18.95	PK	Vertical
6	6316.75	58.31	54.43	-3.88	74.00	19.57	PK	Vertical
7	7219.00	57.96	57.93	-0.03	74.00	16.07	PK	Vertical
8	8121.25	57.31	58.17	0.86	74.00	15.83	PK	Vertical
9	9023.50	59.58	61.29	1.71	74.00	12.71	PK	Vertical

Remark:

- 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.
- worse AV value = PK-duty cycle factor = 55.42 < 61.94

Product Name:	Smart key	Product Model:	RT-FD265
Test By:	Janet	Test mode:	Tx mode
Test Frequency:	1 GHz ~ 10 GHz	Polarization:	Horizontal
Test Voltage:	DC 3V	Environment:	Temp: 24°C Huni: 57%

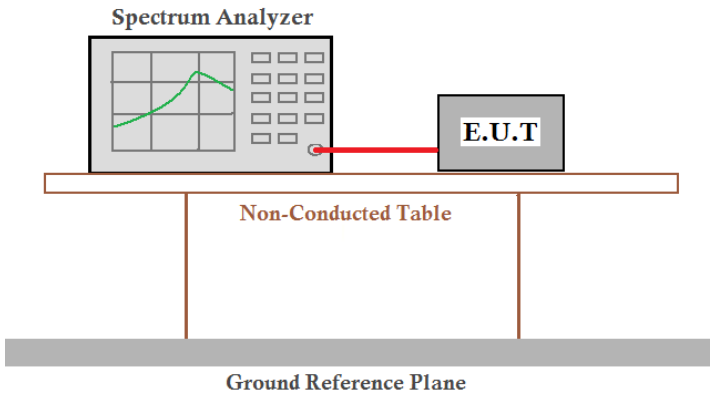


Suspected Data List								
NO.	Freq. [MHz]	Reading [dBuV/m]	Level [dBuV/m]	Factor [dB]	Limit [dBuV/m]	Margin [dB]	Trace	Polarity
1	1806.62	63.66	42.29	-21.37	74.00	31.71	PK	Horizontal
2	2710.00	66.36	48.77	-17.59	74.00	25.23	PK	Horizontal
3	3613.37	60.77	45.92	-14.85	74.00	28.08	PK	Horizontal
4	4511.12	60.57	49.81	-10.76	74.00	24.19	PK	Horizontal
5	5414.50	59.85	53.90	-5.95	74.00	20.10	PK	Horizontal
6	6316.75	59.80	55.92	-3.88	74.00	18.08	PK	Horizontal
7	7219.00	59.05	59.02	-0.03	74.00	14.98	PK	Horizontal
8	8121.25	57.02	57.88	0.86	74.00	16.12	PK	Horizontal
9	9023.50	59.10	60.81	1.71	74.00	13.19	PK	Horizontal

Remark:

- Level = Receiver Read level + Antenna Factor + Cable Loss – Pre-amplifier Factor.
- The emission levels of other frequencies are very lower than the limit and not show in test report.
- worse AV value = PK-duty cycle factor = 54.94 < 61.94

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:	<ol style="list-style-type: none"> 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:	 <p>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.</p>
Test Instruments:	Refer to section 5.9 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

Measurement Data

902.375MHz

20dB bandwidth (MHz)	Limit (MHz)	Results
0.028	2.2559	Passed

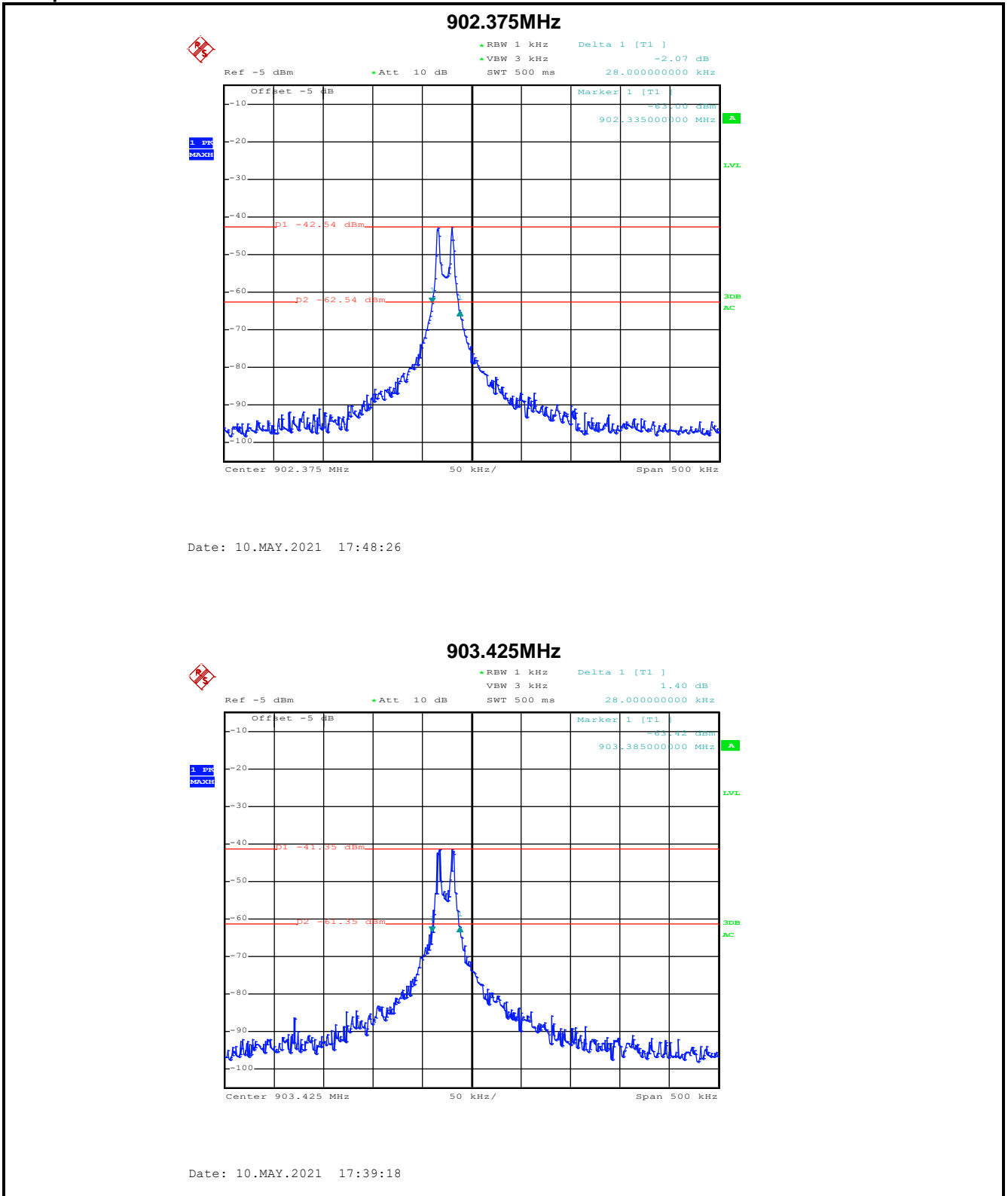
903.425MHz

20dB bandwidth (MHz)	Limit (MHz)	Results
0.028	2.2587	Passed

Note: Limit= Fundamental frequency×0.25%=902.375×0.25%=2.2559MHz

Limit= Fundamental frequency×0.25%=903.425×0.25%=2.2587MHz

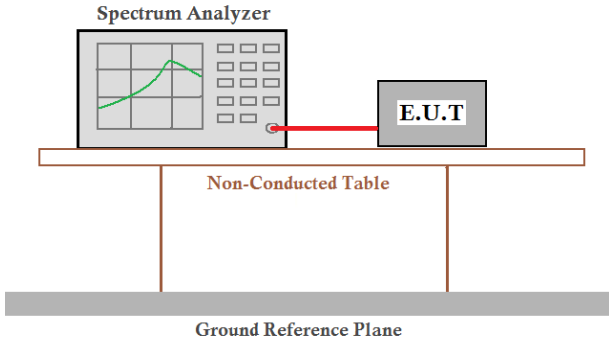
Test plot as follows:



903.425MHz

RBW 1 kHz Delta 1 [T1]
VBW 3 kHz 1.40 dB
Att 10 dB 28.000000000 kHz
Ref -5 dBm SWT 500 ms

6.4 Duration Time

Test Requirement:	FCC Part15 C Section 15.231 (a)(1)
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"> 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:	 <p>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.</p>
Test Instruments:	Refer to section 5.9 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

Measurement Data

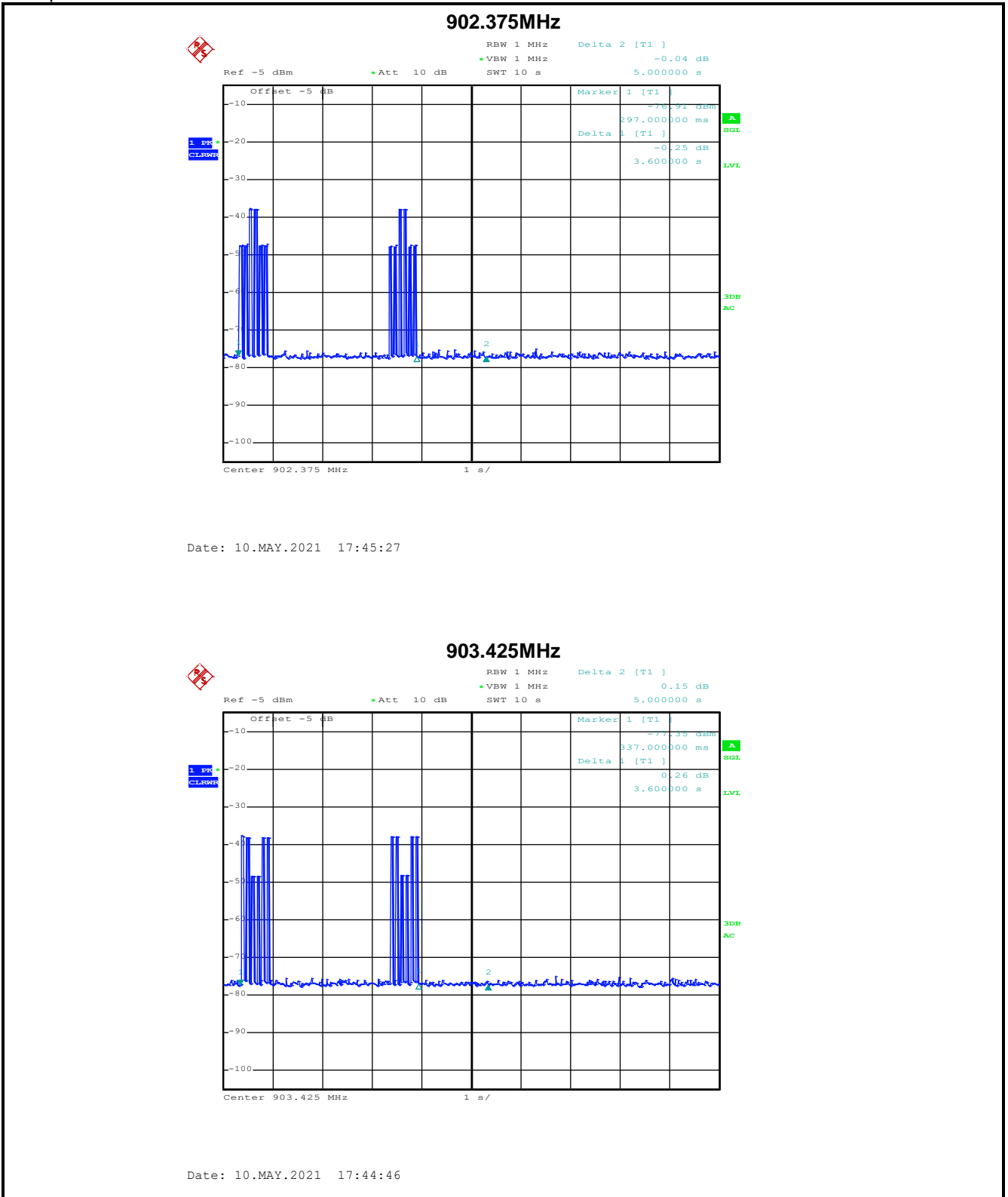
902.375MHz

Duration time (second)	Limit (second)	Result
3.6	<5.0	Pass

903.425MHz

Duration time (second)	Limit (second)	Result
3.6	<5.0	Pass

Test plot as follows:



903.425MHz

RBW 1 MHz Delta 2 [T1]
 VBW 1 MHz 0.15 dB
 Ref -5 dBm Att 10 dB SWT 10 s 5.000000 s