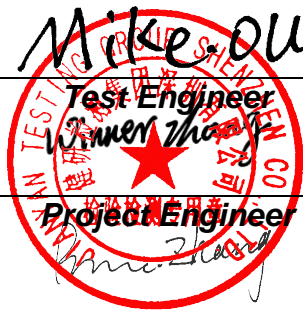


FCC RF Test Report

Applicant: Sunwell Technology Company Limited
Address of Applicant: Building 2. Unit 2. Floor 4A. Jinlong Garden, Nanlian Community, Longgang Street, Longgang District, Shenzhen. China
Equipment Under Test (EUT)
Product Name: Fireplace Remote Control
Model No.: FW9811, FW9810, RCB07A
FCC ID: 2AWRZ-RCB07ATX
Applicable standards: FCC CFR Title 47 Part 15C (§15.231)
Date of sample receipt: 24 Dec., 2021
Date of Test: 25 Dec., 2021 to 28 Feb., 2022
Date of report issue: 01 Mar., 2022
Test Result: PASS

Tested by: _____



Mike Ou
Test Engineer
Wenwen Zhang
Project Engineer
Wenwen Zhang

Date: _____

01 Mar., 2022

Reviewed by: _____

Date: _____

01 Mar., 2022

Approved by: _____

Manager

Date: _____

01 Mar., 2022

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in above the application standard version. Test results reported herein relate only to the item(s) tested.

This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

2 Version

Version No.	Date	Description
00	01 Mar., 2022	Original

3 Contents

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4 General Information

4.1 Client Information

Applicant:	Sunwell Technology Company Limited
Address:	Building 2. Unit 2. Floor 4A. Jinlong Garden, Nanlian Community, Longgang Street, Longgang District, Shenzhen. China
Manufacturer:	Sunwell Technology Company Limited
Address:	Building 2. Unit 2. Floor 4A. Jinlong Garden, Nanlian Community, Longgang Street, Longgang District, Shenzhen. China

4.2 General Description of E.U.T.

Product Name:	Fireplace Remote Control
Model No.:	FW9811, FW9810, RCB07A
Operation Frequency:	350 MHz
Channel Numbers:	1
Modulation Type:	OOK
Antenna Type:	Internal Antenna
Antenna Gain:	0.5 dBi
Power Supply:	DC 3V(AAA alkaline battery)
Test Sample Condition:	The test samples were provided in good working order with no visible defects.
Remark:	Model No.: FW9811, FW9810, RCB07A were identical inside, the electrical circuit design, layout, components used and internal wiring, with only difference being model name.

4.3 Test Mode and Environment

Test mode:			
Transmitting mode:	Keep the EUT in transmitting mode with modulation		
The EUT was placed on three different polar directions tested: 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)	85.24	83.16	84.65
According to ANSI C63.10 standards, the test results are both the "worst case" and "worst setup": Y axis (see the test setup photo).			
Operating Environment:			
Temperature:	15°C ~ 35°C		
Humidity:	20 % ~ 75 % RH		
Atmospheric Pressure:	1010 mbar		

4.4 Description of Support Units

Manufacturer	Description	Model	Serial Number	FCC ID/DoC
N/A				

4.5 Measurement Uncertainty

Parameter	Expanded Uncertainty (Confidence of 95%(U = 2Uc(y)))
Conducted Emission for LISN (9kHz ~ 150kHz)	±3.11 dB
Conducted Emission for LISN (150kHz ~ 30MHz)	±2.62 dB
Radiated Emission (9kHz ~ 30MHz) (3m SAC)	±3.13 dB
Radiated Emission (30MHz ~ 1GHz) (3m SAC)	±4.45 dB
Radiated Emission (1GHz ~ 18GHz) (3m SAC)	±5.34 dB
Radiated Emission (18GHz ~ 40GHz) (3m SAC)	±5.34 dB

Note: All the measurement uncertainty value were shown with a coverage k=2 to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

4.6 Additions to, Deviations, or Exclusions From the Method

No

4.7 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 and 10m 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. ● CNAS - Registration No.: CNAS L15527 JianYan Testing Group Shenzhen Co., Ltd. is accredited to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L15527. ● A2LA - Registration No.: 4346.01 This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 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
--

4.8 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: <http://jyt.lets.com>

4.9 Test Instruments list

Radiated Emission(3m SAC):					
Test Equipment	Manufacturer	Model No.	Manage No.	Cal.Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
3m SAC	ETS	9m*6m*6m	WXJ001-1	01-19-2021	01-18-2024
BiConiLog Antenna	Schwarzbeck	VULB9163	WXJ002	03-03-2021	03-02-2022
Biconical Antenna	Schwarzbeck	VUBA9117	WXJ002-1	06-20-2021	06-19-2022
Horn Antenna	Schwarzbeck	BBHA9120D	WXJ002-2	03-03-2021	03-02-2022
Horn Antenna	Schwarzbeck	BBHA9120D	WXJ002-3	06-18-2021	06-17-2022
Loop Antenna	Schwarzbeck	FMZB 1519 B	WXJ002-4	03-07-2021	03-06-2022
Pre-amplifier (30MHz ~ 1GHz)	Schwarzbeck	BBV9743B	WXG001-7	03-07-2021	03-06-2022
Pre-amplifier (1GHz ~ 18GHz)	SKET	LNPA_0118G-50	WXG001-3	03-07-2021	03-06-2022
Pre-amplifier (18GHz ~ 40GHz)	RF System	TRLA-180400G45B	WXG001-9	03-07-2021	03-06-2022
EMI Test Receiver	Rohde & Schwarz	ESRP7	WXJ003-1	03-03-2021	03-02-2022
Spectrum Analyzer	KEYSIGHT	N9010B	WXJ004-2	11-27-2021	11-26-2022
Coaxial Cable (30MHz ~ 1GHz)	JYTSZ	JYT3M-1G-NN-8M	WXG001-4	03-07-2021	03-06-2022
Coaxial Cable (1GHz ~ 18GHz)	JYTSZ	JYT3M-18G-NN-8M	WXG001-5	03-07-2021	03-06-2022
Coaxial Cable (18GHz ~ 40GHz)	JYTSZ	JYT3M-40G-SS-8M	WXG001-7	03-07-2021	03-06-2022
Coaxial Cable (9kHz ~ 30MHz)	JYT	JYT3M-1G-BB-5M	WXG001-6	03-07-2021	03-06-2022
Band Reject Filter Group	Tonscend	JS0806-F	WXJ089	N/A	
Test Software	Tonscend	TS+	Version: 3.0.0.1		

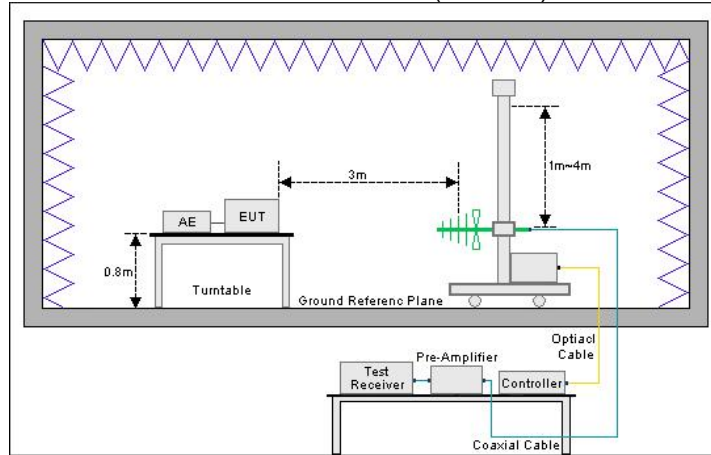
Conducted Emission:					
Test Equipment	Manufacturer	Model No.	Manage No.	Cal.Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
EMI Test Receiver	Rohde & Schwarz	ESCI 3	WXJ003	03-03-2021	03-02-2022
RF Switch	TOP PRECISION	RSU0301	WXG003	03-03-2021	03-02-2022
LISN	Rohde & Schwarz	ENV432	WXJ005-2	03-03-2021	03-02-2022
LISN	Rohde & Schwarz	ESH3-Z5	WXJ005-1	06-18-2021	06-17-2022
LISN Coaxial Cable (9kHz ~ 30MHz)	JYTSZ	JYTCE-1G-NN-2M	WXG003-1	03-03-2021	03-02-2022
Test Software	AUDIX	E3	Version: 6.110919b		

5 Measurement setup and procedure

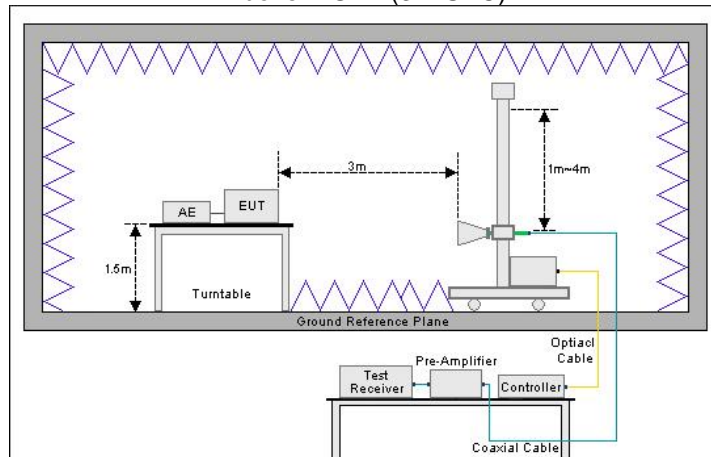
5.1 Test setup

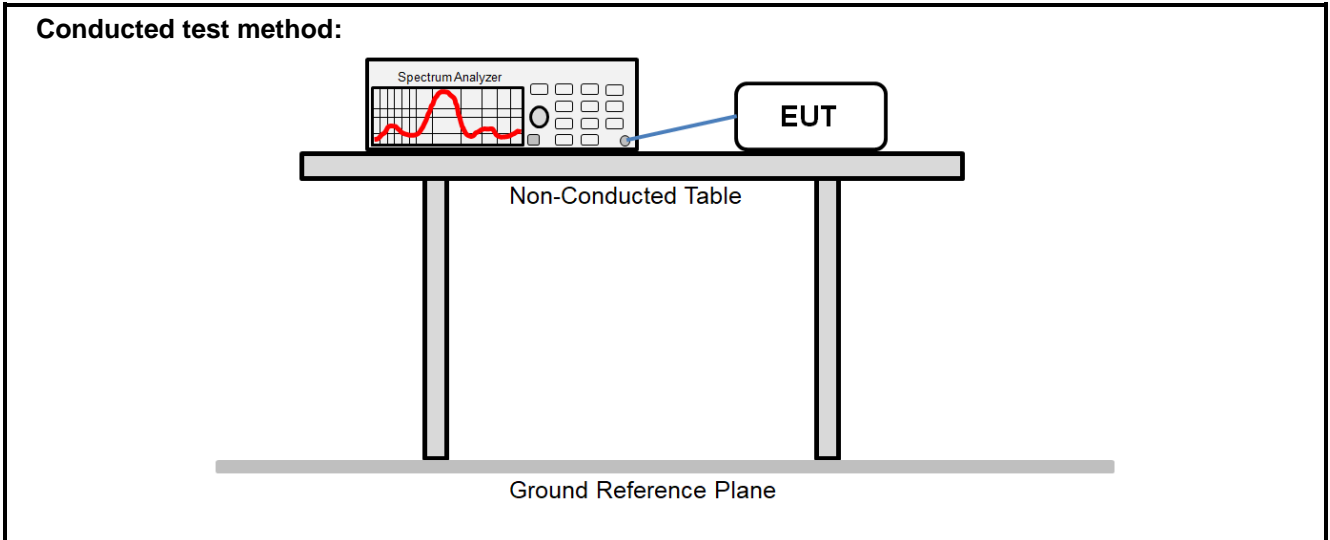
Radiated emission measurement:

30 MHz – 1000 MHz (3m SAC)



Above 1 GHz (3m SAC)





5.2 Test procedure

Test method	Test step
Radiated emission	<ol style="list-style-type: none"> 1. The EUT was placed on the tabletop of a rotating table 0.8 m the ground at a 3 m semi anechoic chamber. The measurement distance from the EUT to the receiving antenna is 3 m. 2. EUT works in each mode of operation that needs to be tested, and having the EUT continuously working, respectively on 3 axis (X, Y & Z) and considered typical configuration to obtain worst position. The highest signal levels relative to the limit shall be determined by rotating the EUT from 0° to 360° and with varying the measurement antenna height between 1 m and 4 m in vertical and horizontal polarizations. 3. Open the test software to control the test antenna and test turntable. Perform the test, save the test results, and export the test data.
Conducted test method	<ol style="list-style-type: none"> 1. The antenna port of EUT was connected to the RF port of the spectrum analyzer through an RF cable. 2. The EUT is keeping in continuous transmission mode and tested in all modulation modes. 3. The test data is saved by the screenshot function of the spectrum analyzer.

6 Test Results

6.1 Summary

6.1.1 Clause and data summary

Test Items	FCC Part Section(s)	Test Data	Result
Antenna Requirement	15.203	See Section 6.2	Pass
Conducted Emission	15.207	N/A	N/A
20dB Bandwidth	15.231 (c)	See Section 6.3	Pass
Field strength emissions	15.209 15.231 (b)	See Section 6.4	Pass
Duration Time	15.231 (a)(1)	See Section 6.5	Pass
<p>Remark:</p> <p>1. Pass: The EUT complies with the essential requirements in the standard.</p> <p>2. N/A: Not Applicable.</p>			
Test Method:	ANSI C63.4-2014 ANSI C63.10-2013		

6.1.2 Test Limit

Items	Limit																					
20dB Bandwidth	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.																					
Field strength emissions	<table border="1" data-bbox="512 443 1445 712"> <thead> <tr> <th data-bbox="512 443 791 499">Fundamental Frequency (MHz)</th> <th data-bbox="791 443 1086 499">Field strength of fundamental (microvolts/meter)</th> <th data-bbox="1086 443 1445 499">Field strength of spurious emissions (microvolts/meter)</th> </tr> </thead> <tbody> <tr> <td data-bbox="512 499 791 528">40.66 – 40.70</td> <td data-bbox="791 499 1086 528">2250</td> <td data-bbox="1086 499 1445 528">225</td> </tr> <tr> <td data-bbox="512 528 791 557">70.00 – 130.00</td> <td data-bbox="791 528 1086 557">1250</td> <td data-bbox="1086 528 1445 557">125</td> </tr> <tr> <td data-bbox="512 557 791 586">130.00 – 174.00</td> <td data-bbox="791 557 1086 586">1250 to 3750</td> <td data-bbox="1086 557 1445 586">125 to 375</td> </tr> <tr> <td data-bbox="512 586 791 616">174.00 – 260.00</td> <td data-bbox="791 586 1086 616">3750</td> <td data-bbox="1086 586 1445 616">375</td> </tr> <tr> <td data-bbox="512 616 791 645">260.00 – 470.00</td> <td data-bbox="791 616 1086 645">3750 to 12500</td> <td data-bbox="1086 616 1445 645">375 to 1250</td> </tr> <tr> <td data-bbox="512 645 791 674">Above 470.00</td> <td data-bbox="791 645 1086 674">12500</td> <td data-bbox="1086 645 1445 674">1250</td> </tr> </tbody> </table> <p data-bbox="512 685 707 712">*Linear interpolations.</p> <p data-bbox="488 730 1477 1317"> (1) The above field strength limits are specified at a distance of 3 meters. The tighter limits apply at the band edges. (2) Intentional radiators operating under the provisions of this section shall demonstrate compliance with the limits on the field strength of emissions, as shown in the above table, based on the average value of the measured emissions. As an alternative, compliance with the limits in the above table may be based on the use of measurement instrumentation with a CISPR quasi-peak detector. The specific method of measurement employed shall be specified in the application for equipment authorization. If average emission measurements are employed, the provisions in § 15.35 for averaging pulsed emissions and for limiting peak emissions apply. Further, compliance with the provisions of § 15.205 shall be demonstrated using the measurement instrumentation specified in that section. (3) The limits on the field strength of the spurious emissions in the above table are based on the fundamental frequency of the intentional radiator. Spurious emissions shall be attenuated to the average (or, alternatively, CISPR quasi-peak) limits shown in this table or to the general limits shown in § 15.209, whichever limit permits a higher field strength. </p>	Fundamental Frequency (MHz)	Field strength of fundamental (microvolts/meter)	Field strength of spurious emissions (microvolts/meter)	40.66 – 40.70	2250	225	70.00 – 130.00	1250	125	130.00 – 174.00	1250 to 3750	125 to 375	174.00 – 260.00	3750	375	260.00 – 470.00	3750 to 12500	375 to 1250	Above 470.00	12500	1250
Fundamental Frequency (MHz)	Field strength of fundamental (microvolts/meter)	Field strength of spurious emissions (microvolts/meter)																				
40.66 – 40.70	2250	225																				
70.00 – 130.00	1250	125																				
130.00 – 174.00	1250 to 3750	125 to 375																				
174.00 – 260.00	3750	375																				
260.00 – 470.00	3750 to 12500	375 to 1250																				
Above 470.00	12500	1250																				
Duration Time	A manually operated transmitter shall employ a switch that will automatically deactivate the transmitter within not more than 5 seconds of being released.																					

6.2 Antenna Requirement

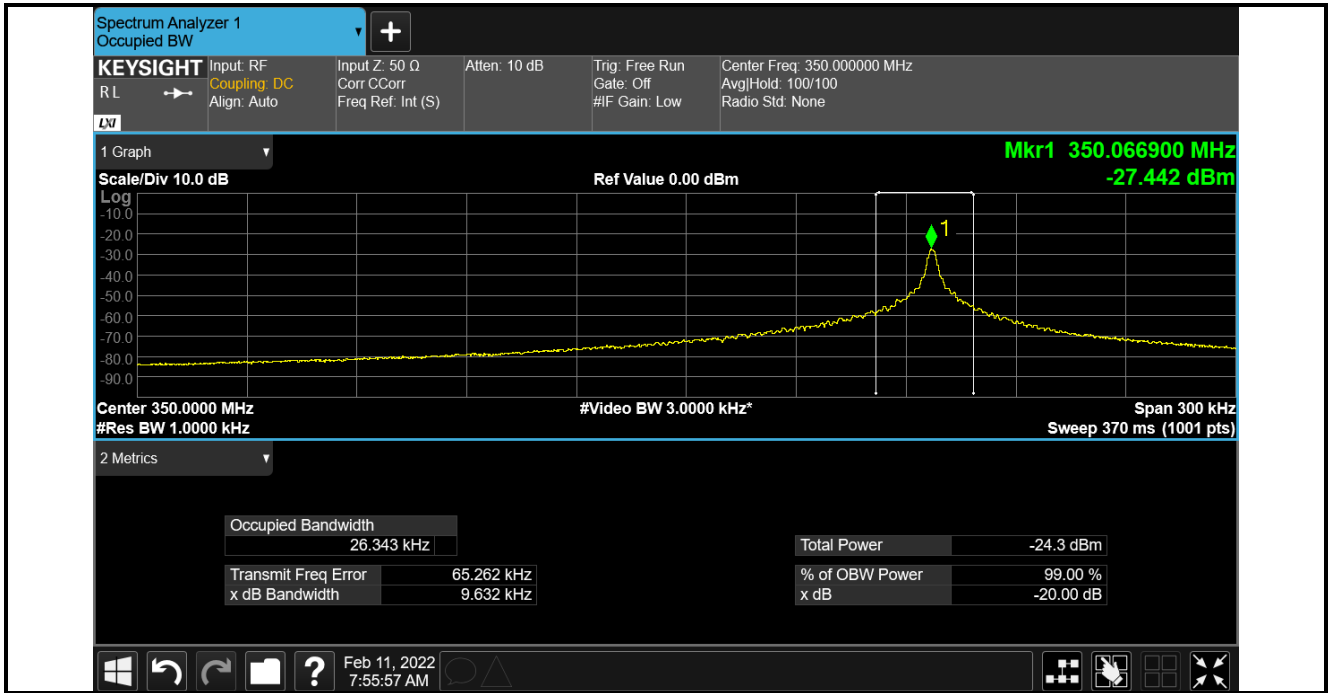
Standard requirement:	FCC Part15 C Section 15.203
15.203 requirement:	An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling 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 internal antenna.

6.3 20dB Bandwidth

20dB bandwidth (MHz)	Limit (MHz)	Results
0.09632	0.7875	Passed

Note: Limit = Fundamental frequency \times 0.25%=315 \times 0.25%=0.7875MHz.

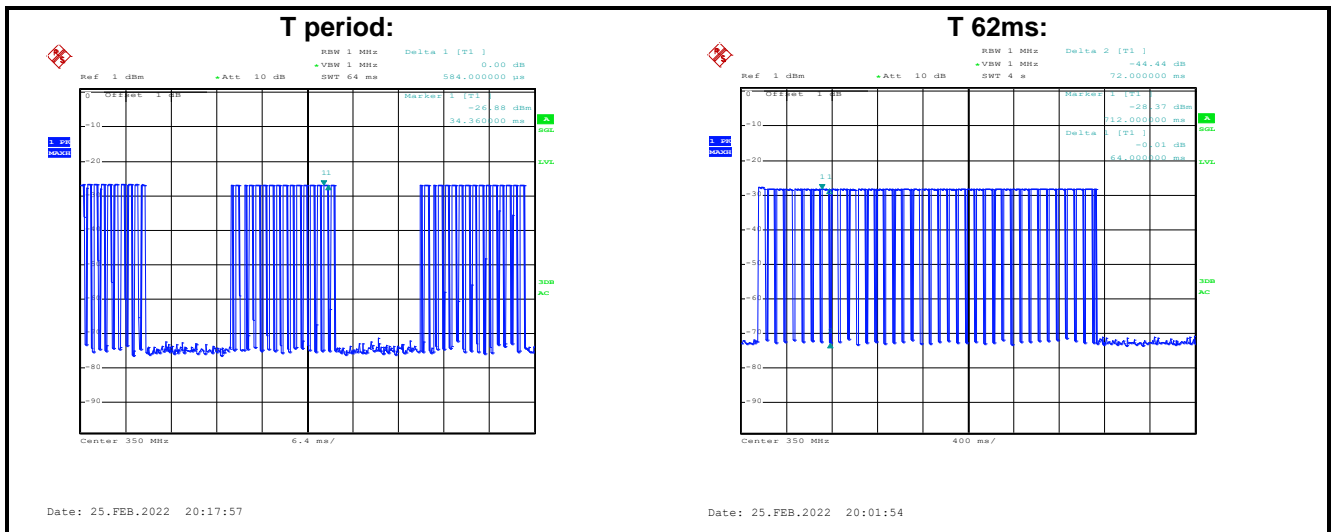
Test plot as follows:



6.4 Field Strength Emissions

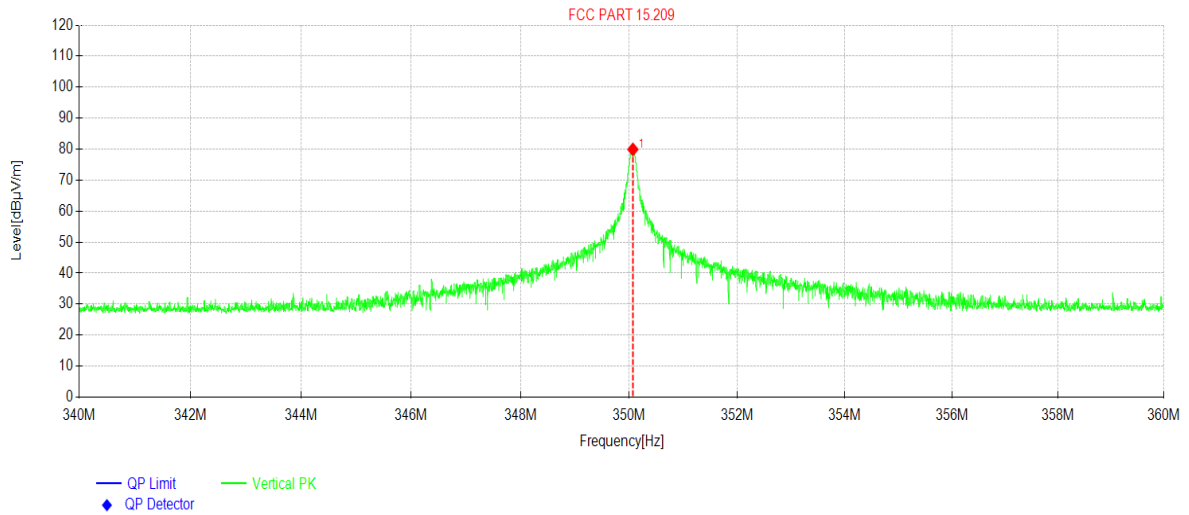
Field Strength of fundamental signal:

Peak value						
Frequency (MHz)	Reading (dBuV/m)	Factor [dB]	Level [dBuV/m]	Limit Line (dBuV/m)	Margin (dB)	Polarization
350.06	63.11	16.81	79.92	97.50	17.58	Vertical
350.06	68.43	16.81	85.24	97.50	12.26	Horizontal
Average value						
Frequency (MHz)	Level (dBuV/m)	Duty cycle factor	Average value (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization
350.06	79.92	-9.35	70.57	77.50	6.93	Vertical
350.06	85.24	-9.35	75.89	77.50	1.61	Horizontal
Duty Cycle Factor 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					
	T on time = (42*0.584) (ms)=24.528(ms)					
	T period = 72(ms) < 100(ms)					
	Duty cycle = 34.07%					
Duty cycle factor = 20log(Duty cycle) =-9.35						



Test Plots:

Product Name:	Fireplace Remote Control	Product Model:	FW9811
Test By:	Mike	Test mode:	Tx mode
Test Frequency:	350 MHz	Polarization:	Vertical
Test Voltage:	DC 3V		

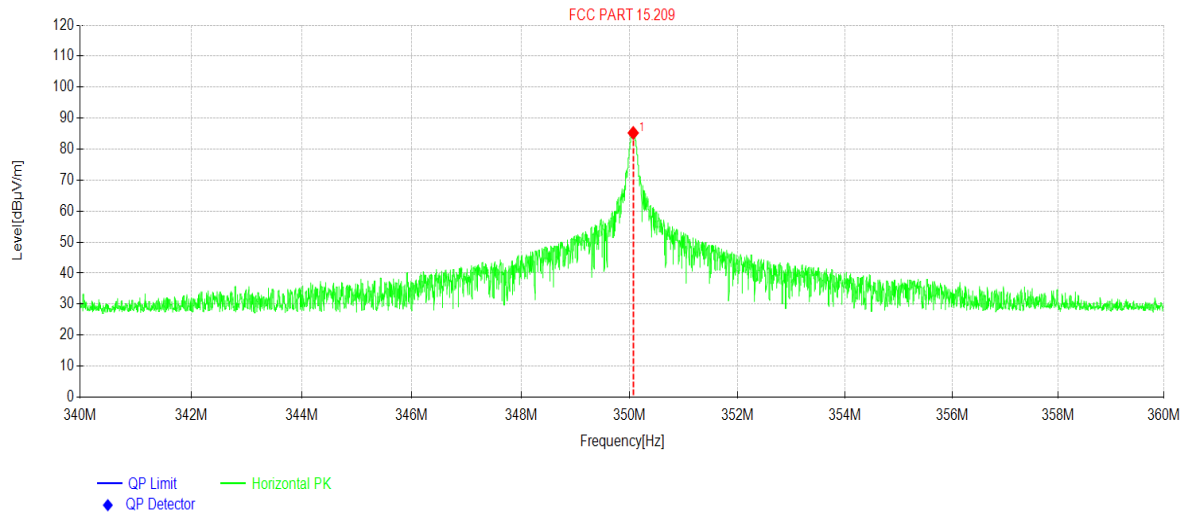


NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	350.065	63.11	79.92	16.81	97.50	17.58	PK	Vertical

Remark:

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

Product Name:	Fireplace Remote Control	Product Model:	FW9811
Test By:	Mike	Test mode:	Tx mode
Test Frequency:	350 MHz	Polarization:	Horizontal
Test Voltage:	DC 3V		



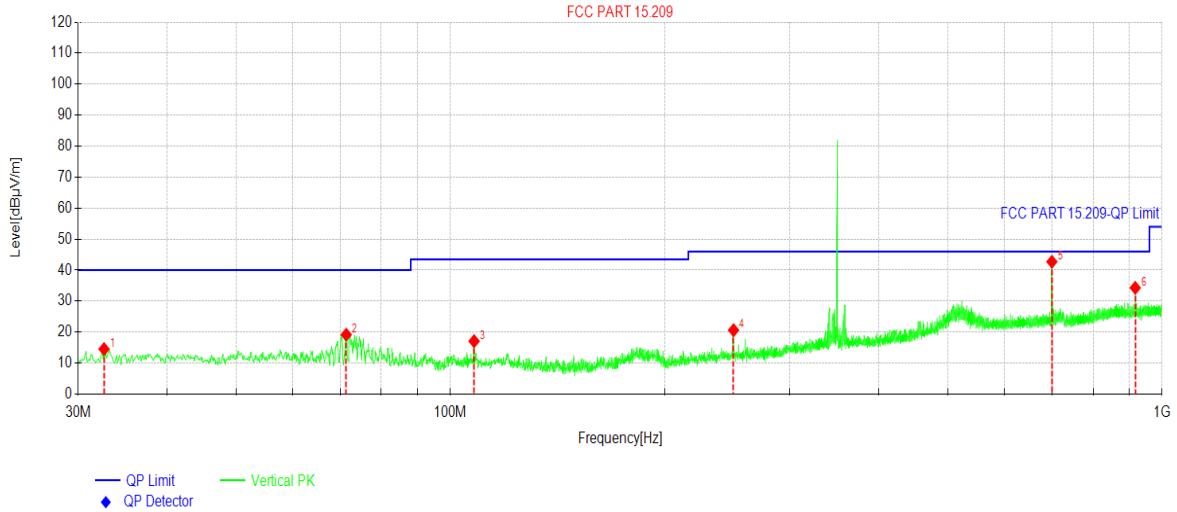
NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	350.063	68.43	85.24	16.81	97.50	12.26	PK	Horizontal

Remark:

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

Spurious Emissions:

Product Name:	Fireplace Remote Control	Product Model:	FW9811
Test By:	Mike	Test mode:	Tx mode
Test Frequency:	30 MHz – 1000 MHz	Polarization:	Vertical
Test Voltage:	DC 3V		

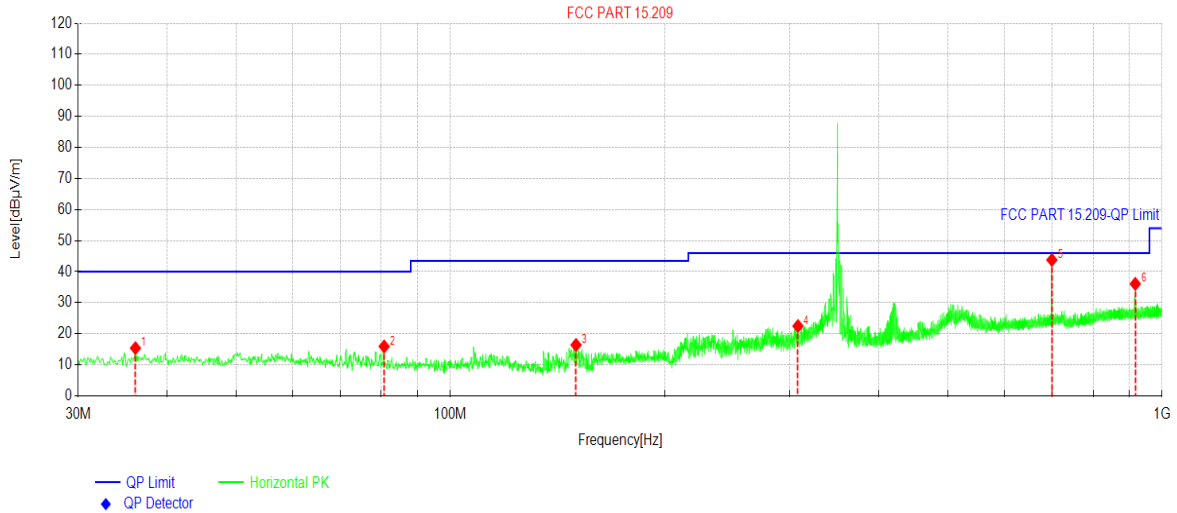


NO.	Freq. [MHz]	Reading[dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	32.6193	30.10	14.54	-15.56	40.00	25.46	PK	Vertical
2	71.4231	36.17	19.19	-16.98	40.00	20.81	PK	Vertical
3	107.995	33.02	17.08	-15.94	43.50	26.42	PK	Vertical
4	250.018	34.43	20.64	-13.79	46.00	25.36	PK	Vertical
5	700.240	47.06	42.71	-4.35	46.00	3.29	PK	Vertical
6	916.959	35.48	34.30	-1.18	46.00	11.70	PK	Vertical

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:	Fireplace Remote Control	Product Model:	FW9811
Test By:	Mike	Test mode:	Tx mode
Test Frequency:	30 MHz – 1000 MHz	Polarization:	Horizontal
Test Voltage:	DC 3V		

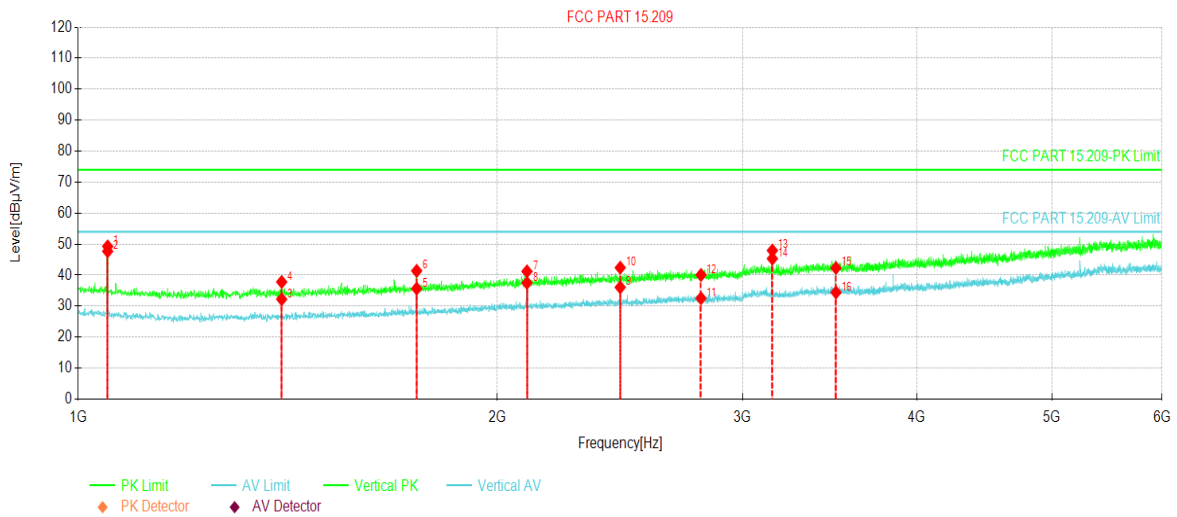


NO.	Freq. [MHz]	Reading[dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	36.1116	30.26	15.37	-14.89	40.00	24.63	PK	Horizontal
2	80.7361	33.28	15.91	-17.37	40.00	24.09	PK	Horizontal
3	150.195	34.31	16.40	-17.91	43.50	27.10	PK	Horizontal
4	307.932	34.97	22.48	-12.49	46.00	23.52	PK	Horizontal
5	700.240	48.12	43.77	-4.35	46.00	2.23	PK	Horizontal
6	916.959	37.25	36.07	-1.18	46.00	9.93	PK	Horizontal

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:	Fireplace Remote Control	Product Model:	FW9811
Test By:	Mike	Test mode:	Tx mode
Test Frequency:	1000 MHz – 4000 MHz	Polarization:	Vertical
Test Voltage:	DC 3V		

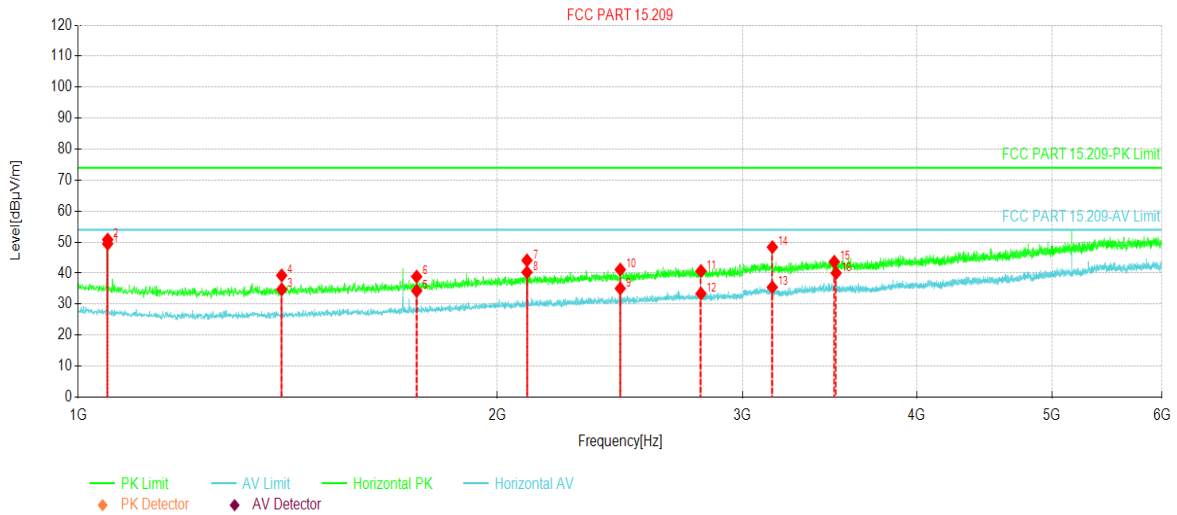


NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	1050.00	71.60	49.28	-22.32	74.00	24.72	PK	Vertical
2	1050.00	70.02	47.70	-22.32	54.00	6.30	AV	Vertical
3	1400.00	55.31	32.24	-23.07	54.00	21.76	AV	Vertical
4	1400.00	60.87	37.80	-23.07	74.00	36.20	PK	Vertical
5	1750.00	57.27	35.66	-21.61	54.00	18.34	AV	Vertical
6	1750.00	63.00	41.39	-21.61	74.00	32.61	PK	Vertical
7	2100.00	60.97	41.21	-19.76	74.00	32.79	PK	Vertical
8	2100.00	57.26	37.50	-19.76	54.00	16.50	AV	Vertical
9	2450.00	54.77	36.07	-18.70	54.00	17.93	AV	Vertical
10	2450.00	61.11	42.41	-18.70	74.00	31.59	PK	Vertical
11	2800.00	50.08	32.54	-17.54	54.00	21.46	AV	Vertical
12	2800.00	57.61	40.07	-17.54	74.00	33.93	PK	Vertical
13	3150.62	63.89	47.95	-15.94	74.00	26.05	PK	Vertical
14	3150.62	61.26	45.32	-15.94	54.00	8.68	AV	Vertical
15	3500.00	57.16	42.32	-14.84	74.00	31.68	PK	Vertical
16	3500.00	49.26	34.42	-14.84	54.00	19.58	AV	Vertical

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:	Fireplace Remote Control	Product Model:	FW9811
Test By:	Mike	Test mode:	Tx mode
Test Frequency:	1000 MHz – 4000 MHz	Polarization:	Horizontal
Test Voltage:	DC 3V		



NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	1050.00	71.77	49.45	-22.32	54.00	4.55	AV	Horizontal
2	1050.00	73.11	50.79	-22.32	74.00	23.21	PK	Horizontal
3	1400.00	57.84	34.77	-23.07	54.00	19.23	AV	Horizontal
4	1400.00	62.32	39.25	-23.07	74.00	34.75	PK	Horizontal
5	1750.00	55.90	34.29	-21.61	54.00	19.71	AV	Horizontal
6	1750.00	60.50	38.89	-21.61	74.00	35.11	PK	Horizontal
7	2100.00	63.89	44.13	-19.76	74.00	29.87	PK	Horizontal
8	2100.00	60.05	40.29	-19.76	54.00	13.71	AV	Horizontal
9	2450.00	53.76	35.06	-18.70	54.00	18.94	AV	Horizontal
10	2450.00	59.85	41.15	-18.70	74.00	32.85	PK	Horizontal
11	2800.00	58.22	40.68	-17.54	74.00	33.32	PK	Horizontal
12	2800.00	50.94	33.40	-17.54	54.00	20.60	AV	Horizontal
13	3150.00	51.38	35.44	-15.94	54.00	18.56	AV	Horizontal
14	3150.62	64.32	48.38	-15.94	74.00	25.62	PK	Horizontal
15	3490.00	58.54	43.65	-14.89	74.00	30.35	PK	Horizontal
16	3500.62	54.89	40.05	-14.84	54.00	13.95	AV	Horizontal

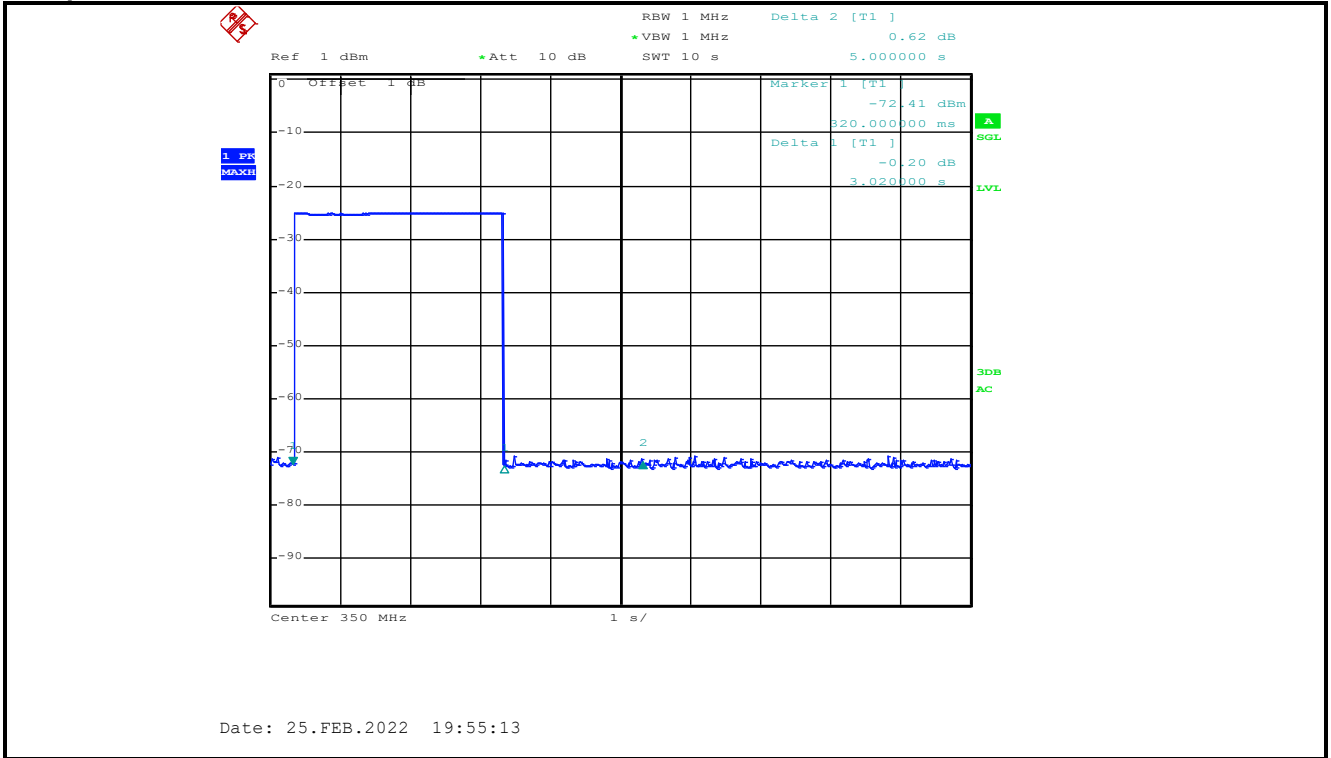
Remark:

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.

6.5 Duration Time

Duration time (second)	Limit (second)	Result
3.02	<5.0	Pass

Test plot as follows:



-----End of report-----