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MEASUREMENT REPORT

FCC PART 15.247 / RSS-247 Bluetooth-LE

Report No.: S202005114008E04
 Report Version: V02
 Issue Date: 07-28-2020

Applicant: kantiantech Inc.
Address: NO.3 JinPin Street, Ya An Road, NanKai District. Tianjin
 China

FCC ID: 2AWHIWSPRK1
IC: 26041-WSPRK1
Application Type: Certification
Product: WYZE SPRINKLER CONTROLLER
Model No.: WSPRK1
FCC Classification: Digital Transmission System (DTS)
FCC Rule Part(s): Part 15 Subpart C (15.247)
IC Rule(s): RSS-247 Issue 2, RSS-GEN Issue 5
Test Procedure(s): ANSI C63.10-2013, KDB 558074 D01v05r02
Test Date: May 19 ~ June 22, 2020

Reviewed By

Line Chen

(Line Chen)
 Senior Test Engineer

Approved By

Roy Cheng

(Roy Cheng)
 Senior Test Engineer



The test results relate only to the samples tested.

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 KDB 558074 D01. Test results reported herein relate only to the item(s) tested.

The test report shall not be reproduced except in full without the written approval of Fanguang Inspection & Testing Co., Ltd.

Revision History

Report No.	Version	Description	Issue Date
S202005114008E04	Rev. 02	Added test software description and the uncertainty description	07-28-2020

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§2.1033 General Information

Applicant:	kantiantech Inc.
Applicant Address:	NO.3 JinPin Street,Ya An Road,NanKai District.Tianjin China
Manufacturer:	kantiantech Inc.
Manufacturer Address:	NO.3 JinPin Street,Ya An Road,NanKai District.Tianjin China
Factory:	kantiantech Inc.
Factory Address:	NO.3 JinPin Street,Ya An Road,NanKai District.Tianjin China
Test Site:	Fanguang Inspection & Testing Co., Ltd.
Test Site Address:	200 Linghu Avenue, Xinwu District, Wuxi City, China
Test Device Serial No.:	N/A <input type="checkbox"/> Production <input checked="" type="checkbox"/> Pre-Production <input type="checkbox"/> Engineering
FCC Classification:	Digital Transmission System (DTS)

1. INTRODUCTION

1.1. Scope

Measurement and determination of electromagnetic emissions (EMC) of radio frequency devices including intentional and/or unintentional radiators for compliance with the technical rules and regulations of the Federal Communications Commission and the Innovation, Science and Economic Development Canada.

1.2. Fangguang Test Location

These measurement tests were performed at the Fangguang Inspection and testing Co.,LTD located at 200 Linghu Avenue, Xinwu District, Wuxi City. The detailed description of the measurement facility was found to be in compliance with the requirements of ANSI C63.4-2014.

2. PRODUCT INFORMATION

2.1. Equipment Description

Product Name:	WYZE SPRINKLER CONTROLLER
Model Name:	WSPRK1
Input Voltage Range:	AC 24V~, 60Hz, 800mA
Wi-Fi Specification:	802.11b/g/n-HT20/n-HT40
Bluetooth Version:	V3.0/4.0
Adapter Information:	Model: HMQ-SM2401 Rated Input: 120V~, 60Hz , Max. Input current: 800mA, Rated Output: 24V~, 1.0A

2.2. Product Specification Subjective to this Report

Bluetooth Frequency	2402~2480MHz
Bluetooth Version	V4.0
Type of modulation	GFSK
Data Rate	1Mbps
Antenna Type:	FPC Antenna
Antenna Gain:	2.64dBi

2.3. Operation Frequency / Channel List

Channel	Frequency	Channel	Frequency	Channel	Frequency
00	2402 MHz	01	2404 MHz	02	2406 MHz
03	2408 MHz	04	2410 MHz	05	2412 MHz
06	2414 MHz	07	2416 MHz	08	2418 MHz
09	2420 MHz	10	2422 MHz	11	2424 MHz
12	2426 MHz	13	2428 MHz	14	2430 MHz
15	2432 MHz	16	2434 MHz	17	2436 MHz
18	2438 MHz	19	2440 MHz	20	2442 MHz
21	2444 MHz	22	2446 MHz	23	2448 MHz
24	2450 MHz	25	2452 MHz	26	2454 MHz
27	2456 MHz	28	2458 MHz	29	2460 MHz
30	2462 MHz	31	2464 MHz	32	2466 MHz
33	2468 MHz	34	2470 MHz	35	2472 MHz
36	2474 MHz	37	2476 MHz	38	2478 MHz
39	2480 MHz	--	--	--	--

2.4. Device Capabilities

This device contains the following capabilities:

2.4GHz WLAN (DTS) & Bluetooth (v3.0/4.0)

Note: The maximum achievable duty cycle was determined based on measurements performed on a spectrum analyzer in zero-span mode with RBW = 8MHz, VBW = 50MHz. The RBW and VBW were both greater than 50/T, where T is the minimum transmission duration, and the number of sweep points across T was greater than 100. The duty cycles are 83.65%.

2.5. Description of Test Software

The test utility software used during testing was “ESP_RF_test_tool”, the version was v2.3, and the emission setting value is the software default value.

2.6. Test Mode

Test Mode	Mode 1: Transmit by BLE
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2.7. Test Configuration

The EUT was tested per the guidance of KDB 558074 D01 v05r02. ANSI C63.10-2013 was used to reference the appropriate EUT setup for radiated spurious emissions testing and AC line conducted testing.

2.8. EMI Suppression Device(s)/Modifications

No EMI suppression device(s) were added and/or no modifications were made during testing.

2.9. Labeling Requirements

Per 2.1074 & 15.19; Docket 95-19

The label shall be permanently affixed at a conspicuous location on the device; instruction manual or pamphlet supplied to the user and be readily visible to the purchaser at the time of purchase. However, when the device is so small wherein placement of the label with specified statement is not practical, only the FCC ID must be displayed on the device per Section 15.19(a)(5). Please see attachment for FCC ID label and label location.

RSP-100 Issue 11 Section 3

The manufacturer, importer or distributor shall meet the labelling requirements set out in this section for every unit:

- (i) prior to marketing in Canada, for products manufactured in Canada
- (ii) prior to importation into Canada, for imported products

For information regarding the e-labelling option, see Notice 2014-DRS1003. The label for the certified product represents the manufacturer's or importer's compliance with Innovation, Science and Economic Development Canada's (ISED) regulatory requirements.

Please see attachment for IC label and label location.

3. DESCRIPTION OF TEST

3.1. Evaluation Procedure

The measurement procedures described in the American National Standard for Testing Unlicensed Wireless Devices (ANSI C63.10-2013), and the guidance provided in KDB 558074 D01 v05r02 were used in the measurement of the EUT.

Deviation from measurement procedure.....None

3.2. AC Line Conducted Emissions

The line-conducted facility is located inside an 8'x4'x4' shielded enclosure. A 1m x 2m wooden table 80cm high is placed 40cm away from the vertical wall and 80cm away from the sidewall of the shielded room. Two 10kHz-30MHz, 50Ω/50uH Line-Impedance Stabilization Networks (LISNs) are bonded to the shielded room floor. Power to the LISNs is filtered by external high-current high-insertion loss power line filters. These filters attenuate ambient signal noise from entering the measurement lines. These filters are also bonded to the shielded enclosure.

The EUT is powered from one LISN and the support equipment is powered from the second LISN. All interconnecting cables more than 1 meter were shortened to a 1 meter length by non-inductive bundling (serpentine fashion) and draped over the back edge of the test table. All cables were at least 40cm above the horizontal reference ground-plane. Power cables for support equipment were routed down to the second LISN while ensuring that that cables were not draped over the second LISN.

Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. The RF output of the LISN was connected to the receiver and exploratory measurements were made to determine the frequencies producing the maximum emission from the EUT. The receiver was scanned from 150kHz to 30MHz. The detector function was set to peak mode for exploratory measurements while the bandwidth of the analyzer was set to 9kHz. The EUT, support equipment, and interconnecting cables were arranged and manipulated to maximize each emission. Each emission was also maximized by varying: power lines, the mode of operation or data exchange speed, or support equipment whichever determined the worst-case emission. Once the worst case emissions have been identified, the one EUT cable configuration/arrangement and mode of operation that produced these emissions are used for final measurements on the same test site. The analyzer is set to CISPR quasi-peak and average detectors with a 9kHz resolution bandwidth for final measurements.

An extension cord was used to connect to a single LISN which powered by EUT. The extension cord was calibrated with LISN, the impedance and insertion loss are compliance with the requirements as stated in ANSI C63.10-2013.

3.3. Radiated Emissions

The radiated test facilities consisted of an indoor 3 meter semi-anechoic chamber used for final measurements and exploratory measurements, when necessary. The measurement area is contained within the semi-anechoic chamber which is shielded from any ambient interference. For measurements above 1GHz absorbers are arranged on the floor between the turn table and the antenna mast in such a way so as to maximize the reduction of reflections. For measurements below 1GHz, the absorbers are removed. The turntable is used for radiated measurement. It is a continuously rotatable, remote controlled, metallic turntable and 2 meters (6.56 ft.) in diameter. The turn table is flush with the raised floor of the chamber in order to maintain its function as a ground plane. An 80cm high PVC support structure is placed on top of the turntable.

For all measurements, the spectrum was scanned through all EUT azimuths and from 1 to 4 meter receive antenna height using a broadband antenna from 30MHz up to the upper frequency shown in 15.33(b)(1) depending on the highest frequency generated or used in the device or on which the device operates or tunes. For frequencies above 1GHz, linearly polarized double ridge horn antennas were used. For frequencies below 30MHz, a calibrated loop antenna was used. When exploratory measurements were necessary, they were performed at 1 meter test distance inside the semi-anechoic chamber using broadband antennas, broadband amplifiers, and spectrum analyzers to determine the frequencies and modes producing the maximum emissions. Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. The test set-up for frequencies below 1GHz was placed on top of the 0.8 meter high, 1 x 1.5 meter table; and test set-up for frequencies 1-25GHz was placed on top of the 1.5 meter high, 1 x 1.5 meter table. The EUT, support equipment, and interconnecting cables were arranged and manipulated to maximize each emission. Appropriate precaution was taken to ensure that all emissions from the EUT were maximized and investigated. The system configuration, clock speed, mode of operation or video resolution, if applicable, turntable azimuth, and receive antenna height was noted for each frequency found.

Final measurements were made in the semi-anechoic chamber using calibrated, linearly polarized broadband and horn antennas. The test setup was configured to the setup that produced the worst case emissions. The spectrum analyzer was set to investigate all frequencies required for testing to compare the highest radiated disturbances with respect to the specified limits. The turntable containing the EUT was rotated through 360 degrees and the height of the receive antenna was varied 1 to 4 meters and stopped at the azimuth and height producing the maximum emission. Each emission was maximized by changing the orientation of the EUT through three orthogonal planes and changing the polarity of the receive antenna, whichever produced the worst-case emissions. According to 3dB Beam-Width of horn antenna, the horn antenna should be always directed to the EUT when rising height.

4. ANTENNA REQUIREMENTS

Excerpt from §15.203 of the FCC Rules/Regulations:

“An intentional radiator antenna shall be designed to ensure that no antenna other than that furnished by the responsible party can 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 shall be considered sufficient to comply with the provisions of this section.”

- The antennas of the EUT are **permanently attached**.
- There are no provisions for connections to an external antenna.

5. TEST EQUIPMENT CALIBRATION DATE

Conducted Emissions

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
EMI Test Receiver	R&S	ESR3	FWXGJC-2016-181	1 year	2021/03/23
Two-Line V-Network	R&S	ENV 216	FWXGJC-2016-182	1 year	2021/03/15
AMN	AFJ	LT32C/10	FWXGJC-2016-179	1 year	2021/05/29
Thermohygrometer	Yuhuaze	HTC-1	FWXDA-2016-385	1 year	2021/02/28

Radiated Emission

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
Loop Antenna	Schwarzbeck	FMZB 1519B	FWXGJC-2018-015	1 year	2021/08/23
Bi-Log Antenna	R&S	HL562E	FWXGJC-2016-267-06	3 year	2021/03/21
Broadband Horn Antenna	R&S	HF907	FWXGJC-2016-267-07	1 year	2021/04/06
Broadband Horn Antenna	Schwarzbeck	BBHA9170	FWXGJC-2018-016	1 year	2021/08/19
EMI Receiver	R&S	ESR26	FWXGJC-2016-267-01	1 year	2021/03/23
Pre-Amplifier	R&S	SCU-18D	FWXGJC-2016-267-05	1 year	2021/03/15
Pre-Amplifier	R&S	EMC184055 SE	/	/	2020/08/09
Thermohygrometer	Yuhuaze	HTC-1	FWXDA-2016-386	1 year	2021/02/28
Anechoic Chamber	Aimuke	EMCCT-3	FWXGJC-2016-270	1 year	2021/04/10

Conducted Test Equipment

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
EXA Signal Analyzer	Keysight	N9010B	FWXGJC-2018-010	1 year	2021/05/29
RF Control Unit	Toncend	JS0806-2	FWXGJC-2018-013	1 year	2020/10/16
Thermohygrometer	Yuhuaze	HTC-1	FWXDA-2016-385	1 year	2021/02/28

Test Software	Manufacturer	Version	Asset No.	Function
EMI Test Software	tonscend	/	/	/

6. MEASUREMENT UNCERTAINTY

Where relevant, the following test uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k = 2$.

AC Conducted Emission Measurement
Measuring Uncertainty for a Level of Confidence of 95% ($U=2Uc(y)$): 1.28dB
Radiated Emission Measurement
Measuring Uncertainty for a Level of Confidence of 95% ($U=2Uc(y)$): 2.72dB
Spurious Emissions, Conducted
Measuring Uncertainty for a Level of Confidence of 95% ($U=2Uc(y)$): 30MHz-1GHz: 1.00 dB 1GHz-26.5GHz: 1.30 dB
Output Power
Measuring Uncertainty for a Level of Confidence of 95% ($U=2Uc(y)$): 0.60dB
Power Spectrum Density
Measuring Uncertainty for a Level of Confidence of 95% ($U=2Uc(y)$): 0.80dB
Occupied Bandwidth
Measuring Uncertainty for a Level of Confidence of 95% ($U=2Uc(y)$): 0.20MHz

7. TEST RESULT

7.1. Summary

FCC Part Section(s)	RSS Section(s)	Test Description	Test Limit	Test Condition	Test Result	Reference
15.247(a)(2)	RSS-247 [5.2]	6dB Bandwidth	$\geq 500\text{kHz}$	Conducted	Pass	Section 7.2
15.247(b)(3)	RSS-247 [5.4]	Output Power	$\leq 30\text{dBm}$		Pass	Section 7.3
15.247(e)	RSS-247 [5.2]	Power Spectral Density	$\leq 8\text{dBm}/3\text{kHz}$		Pass	Section 7.4
15.247(d)	RSS-247 [5.5]	Band Edge	$\geq 20\text{dBc}$		Pass	Section 7.5
15.247(d)	RSS-247 [5.5]	Out-of-Band Emissions	$\geq 20\text{dBc}$		Pass	Section 7.6
15.205 15.209	RSS GEN [8.9]	General Field Strength Limits (Restricted Bands and Radiated Emission Limits)	Emissions in restricted bands must meet the radiated limits detailed in 15.209 (RSS GEN [8.9])	Radiated	Pass	Section 7.7, 7.8
15.207	RSS GEN [8.8]	AC Conducted Emissions 150kHz - 30MHz	$< \text{FCC } 15.207$ limits (RSS GEN [8.8])	Line Conducted	Pass	Section 7.9

Notes:

- 1) All modes of operation and data rates were investigated. For radiated emission test, every axis (X, Y, Z) was also verified. The test results shown in the following sections represent the worst case emissions.
- 2) The analyzer plots shown in this section were all taken with a correction table loaded into the analyzer. The correction table was used to account for the losses of the cables and attenuators used as part of the system to connect the EUT to the analyzer at all frequencies of interest.
- 3) All antenna port conducted emissions testing was performed on a test bench with the antenna port of the EUT connected to the spectrum analyzer through calibrated cables and attenuators.

7.2. 6dB Bandwidth Measurement

7.2.1. Test Limit

The minimum permissible 6dB bandwidth is 500 kHz.

7.2.2. Test Procedure used

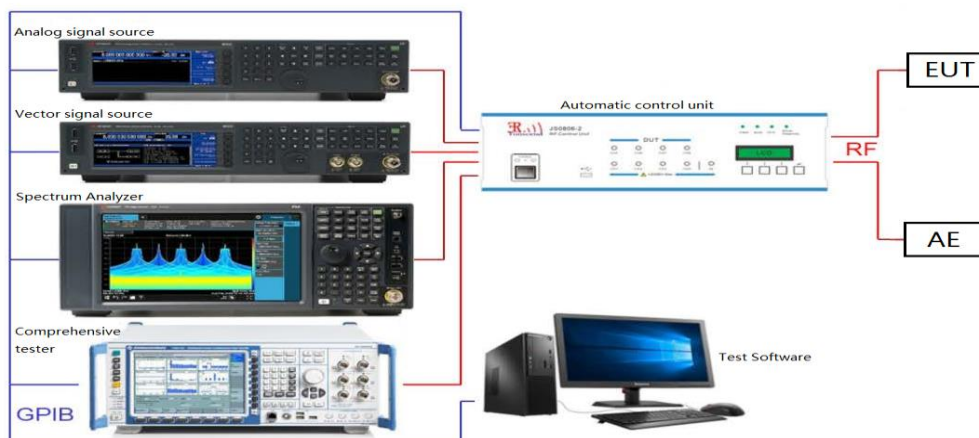
ANSI C63.10-2013 Section 11.8.2 Option 1

KDB 558074 D01 v05r02 – Section 8.2

7.2.3. Test Setting

1. Set RBW = 100 kHz
2. VBW $\geq 3 \times$ RBW
3. Detector = peak
4. Trace mode = max hold
5. Sweep = auto couple
6. Allow the trace was allowed to stabilize
7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

7.2.4. Test Setup



7.2.5. Test Result

Test Mode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	99% BW (MHz)	Verdict
BLE_BT4.0	Ant1	2402	0.660	2401.660	2402.320	>=0.5	1.0297	PASS
		2440	0.692	2439.652	2440.344	>=0.5	1.0204	PASS
		2480	0.708	2479.628	2480.336	>=0.5	1.0179	PASS

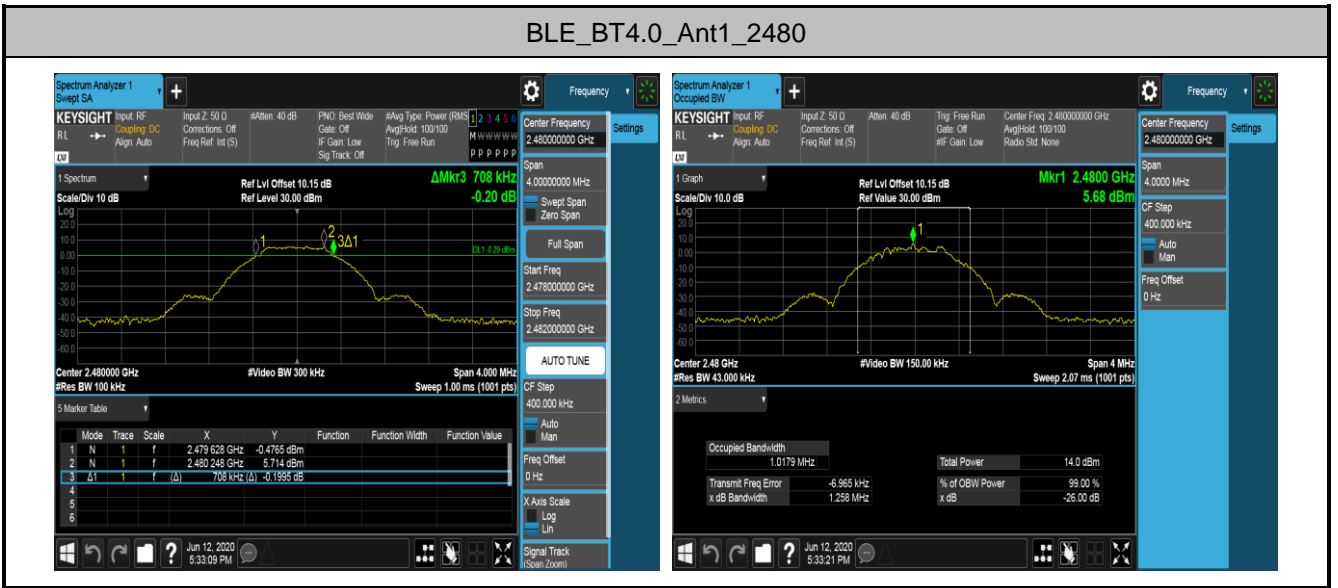
BLE_BT4.0_Ant1_2402



BLE_BT4.0_Ant1_2440



BLE_BT4.0_Ant1_2480



7.3. Output Power Measurement

7.3.1. Test Limit

The maximum permissible conducted output power is 1 Watt (30dBm).

7.3.2. Test Procedure Used

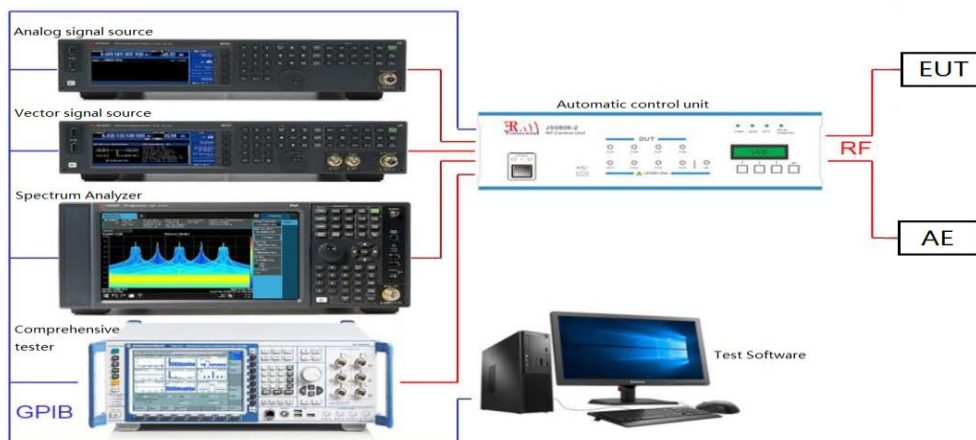
ANSI C63.10-2013 – Section 11.9.1.2

KDB 558074 D01 v05r02 – Section 8.3.1.2

7.3.3. Test Setting

- 1.Set the RBW = 1 MHz.
- 2.Set the VBW \geq [3 × RBW].
- 3.Set the span \geq [1.5 × DTS bandwidth].
- 4.Detector = peak.
- 5.Sweep time = auto couple.
- 6.Trace mode = max hold.
- 7.Allow trace to fully stabilize.

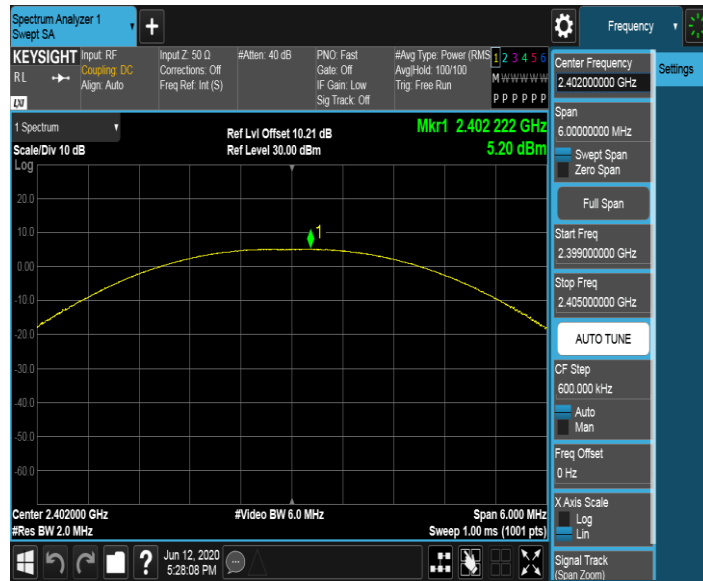
7.3.4. Test Setup



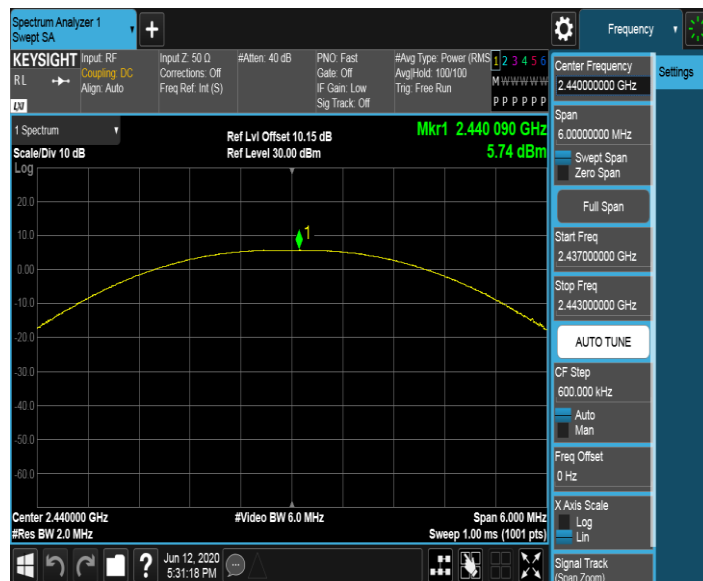
7.3.5. Test Result of Output Power

Test Mode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE_BT4.0	Ant1	2402	5.2	≤ 30	PASS
		2440	5.74	≤ 30	PASS
		2480	7.26	≤ 30	PASS

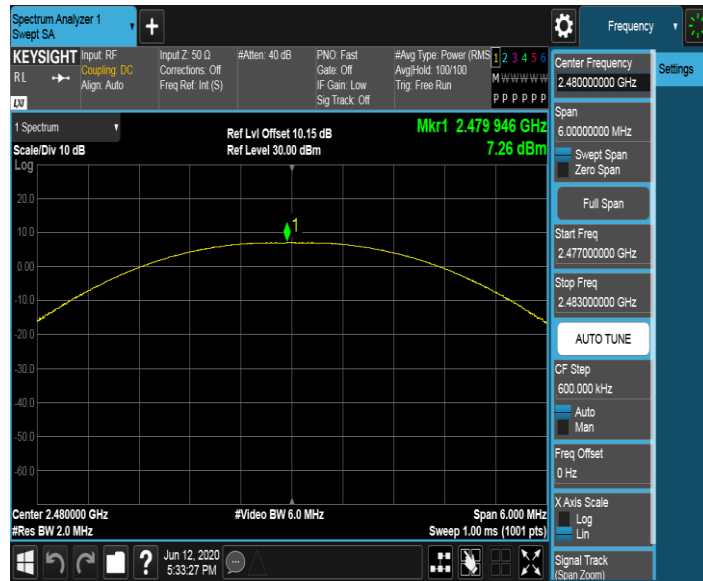
BLE_BT4.0_Ant1_2402



BLE_BT4.0_Ant1_2440



BLE_BT4.0_Ant1_2480



7.4. Power Spectral Density Measurement

7.4.1. Test Limit

The maximum permissible power spectral density is 8dBm in any 3 kHz band.

7.4.2. Test Procedure Used

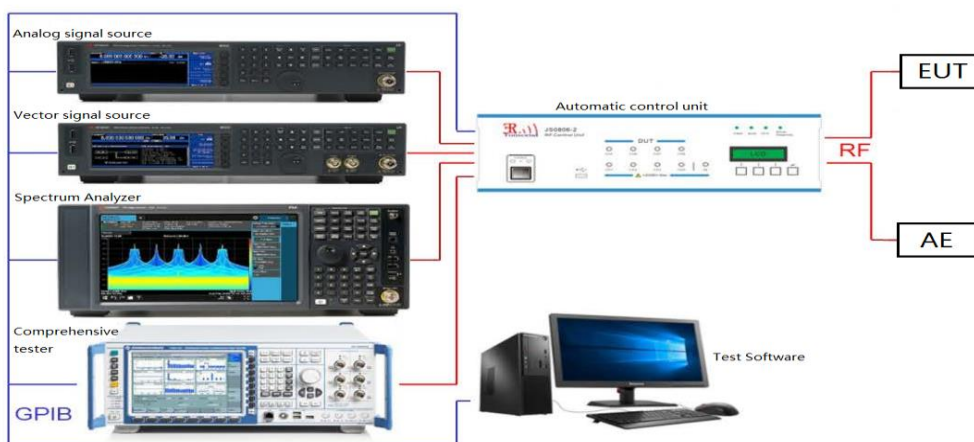
KDB 558074 D01 v05r02 - Section 8.4

ANSI C63.10 – Section 11.10.2

7.4.3. Test Setting

1. Set analyzer center frequency to DTS channel center frequency.
2. Set the span to 1.5 times the DTS bandwidth.
3. Set the RBW to $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
4. Set the VBW $\geq [3 \times \text{RBW}]$.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.

7.4.4. Test Setup



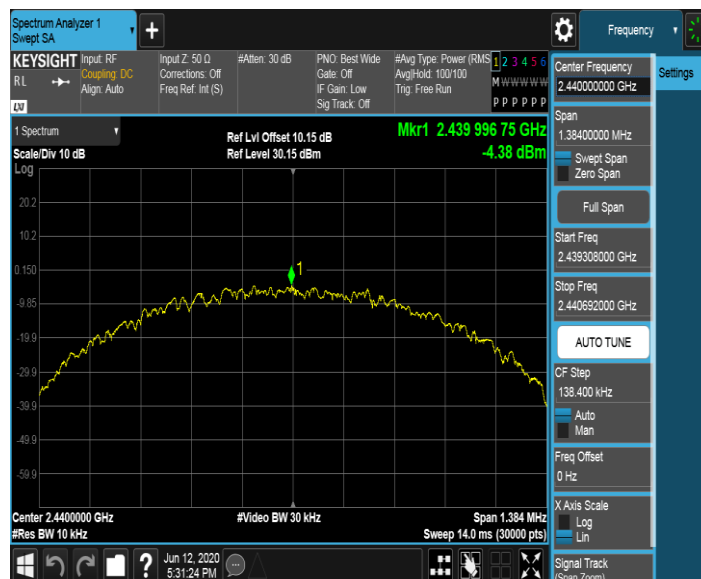
7.4.5. Test Result

Test Mode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
BLE_BT4.0	Ant1	2402	-4.99	<=8	PASS
		2440	-4.38	<=8	PASS
		2480	-2.82	<=8	PASS

BLE_BT4.0_Ant1_2402



BLE_BT4.0_Ant1_2440



BLE_BT4.0_Ant1_2480



7.5. Conducted Band Edge and Out-of-Band Emissions

7.5.1. Test Limit

The limit for out-of-band spurious emissions at the band edge is 20dB below the fundamental emission level, as determined from the in-band power measurement of the DTS channel performed in a 100 kHz bandwidth per the PSD procedure.

7.5.2. Test Procedure Used

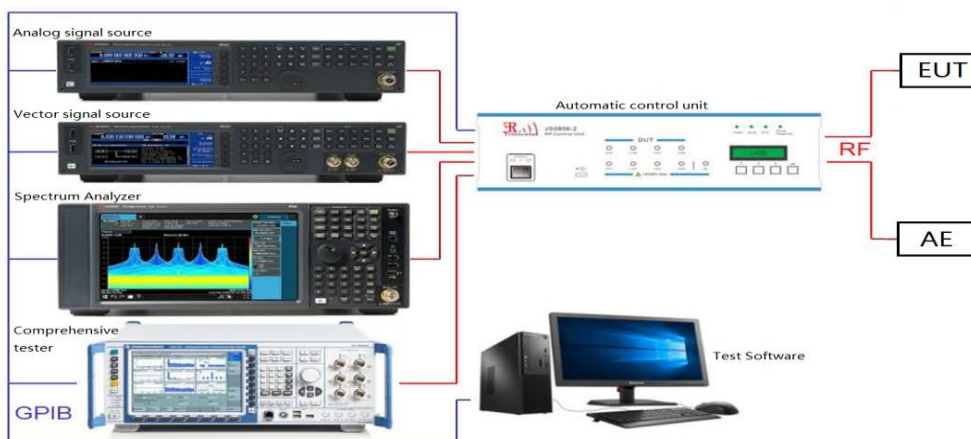
KDB 558074 D01 v05r02 - Section 8.5 & Section 8.6

ANSI C63.10 – Section 11.11&11.12

7.5.3. Test Setting

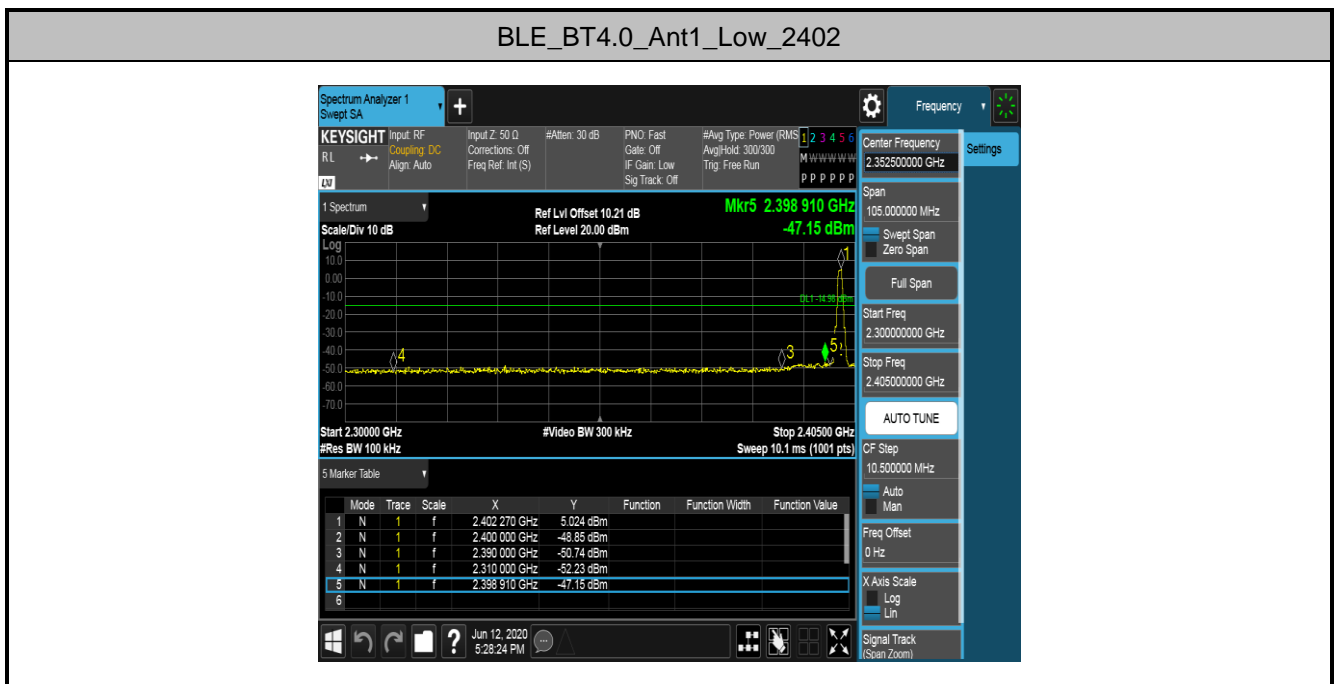
- (a) Set the center frequency and span to encompass frequency range to be measured
- (b) RBW = 100kHz
- (c) VBW = 300kHz
- (d) Detector = Peak
- (e) Trace mode = max hold
- (f) Sweep time = auto couple
- (g) The trace was allowed to stabilize

7.5.4. Test Setup

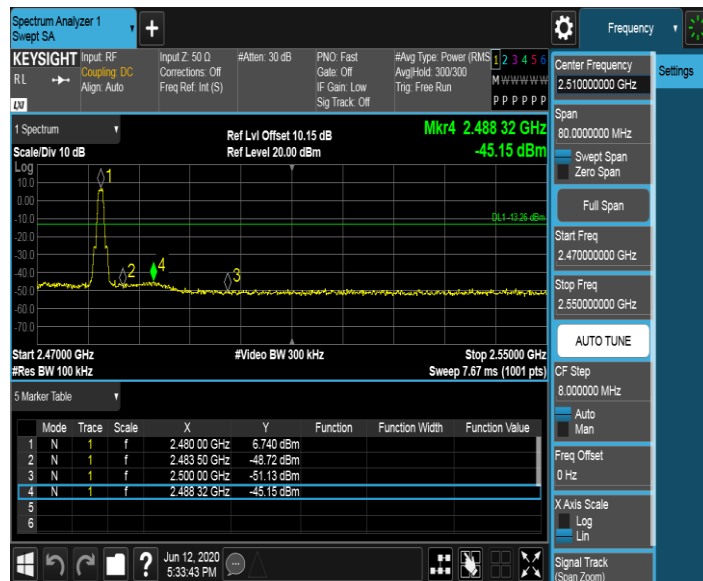


7.5.5. Test Result

Test Mode	Antenna	Channel	Freq Range [MHz]	Ref Level [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_BT4.0	Ant1	2402	Reference	4.39	4.39	---	PASS
			30~1000	30~1000	-47.249	<=-15.61	PASS
			1000~26500	1000~26500	-40.07	<=-15.61	PASS
		2440	Reference	4.63	4.63	---	PASS
			30~1000	30~1000	-46.633	<=-15.366	PASS
			1000~26500	1000~26500	-41.328	<=-15.366	PASS
		2480	Reference	6.50	6.50	---	PASS
			30~1000	30~1000	-46.355	<=-13.504	PASS
			1000~26500	1000~26500	-43.567	<=-13.504	PASS



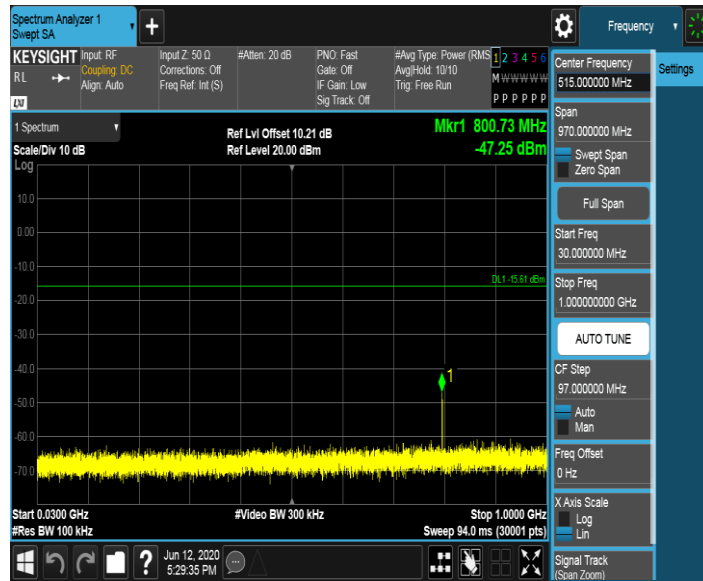
BLE_BT4.0_Ant1_High_2480



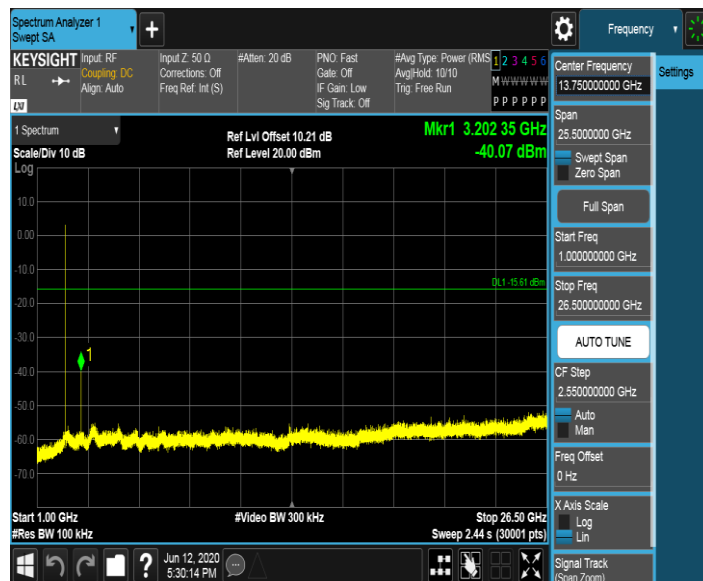
BLE_BT4.0_Ant1_2402_0~Reference



BLE_BT4.0_Ant1_2402_30~1000



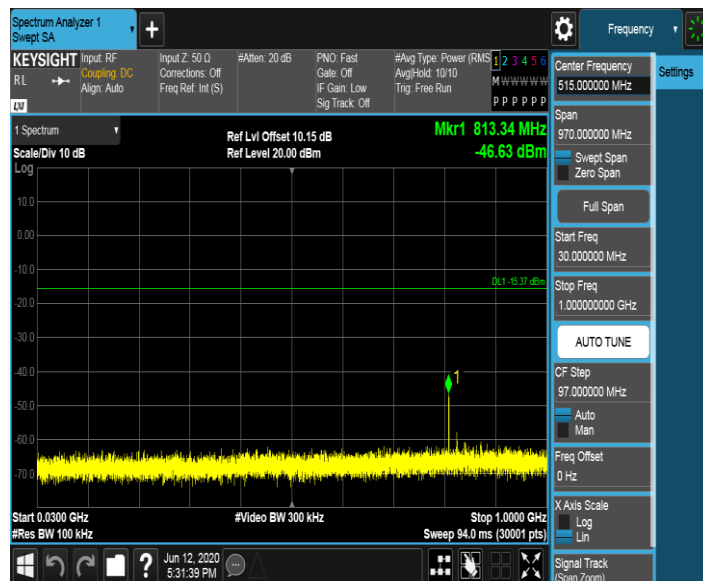
BLE_BT4.0_Ant1_2402_1000~26500



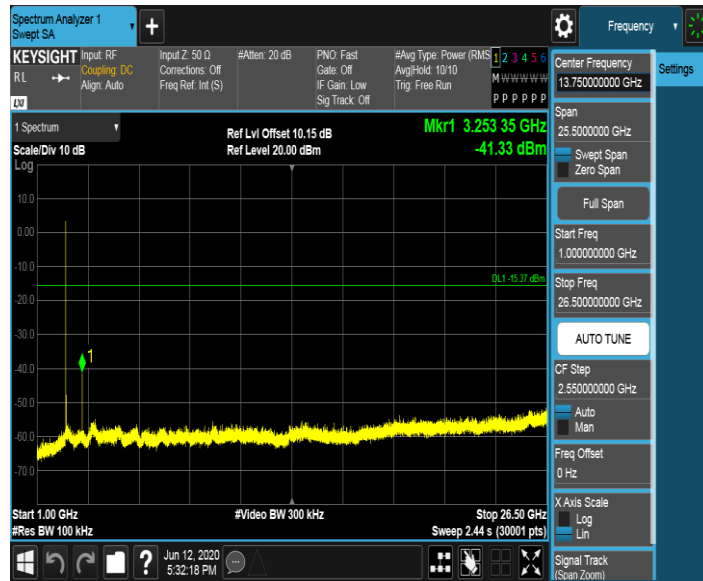
BLE_BT4.0_Ant1_2440_0~Reference



BLE_BT4.0_Ant1_2440_30~1000



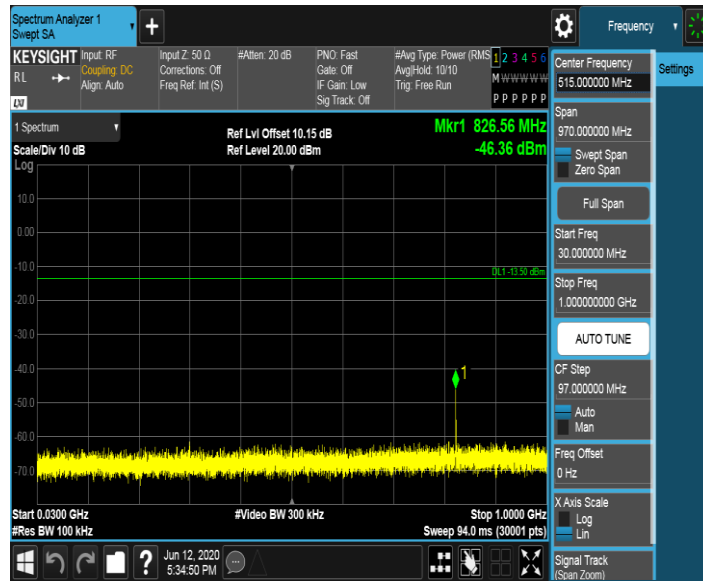
BLE_BT4.0_Ant1_2440_1000~26500



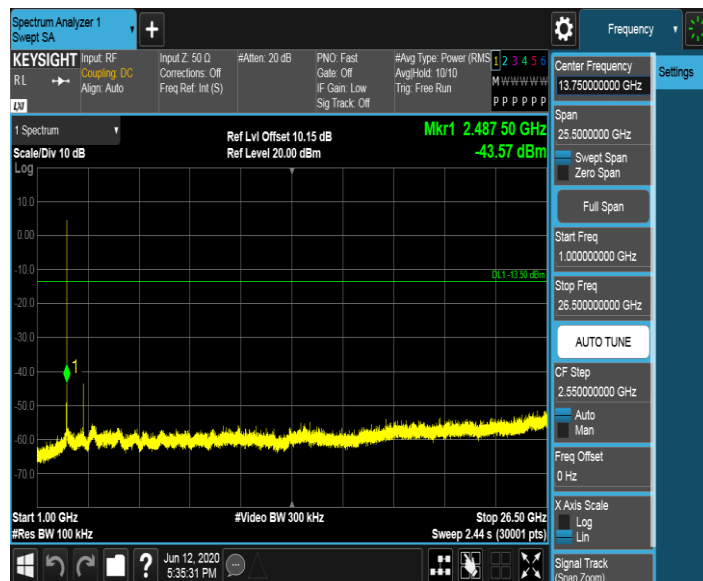
BLE_BT4.0_Ant1_2480_0~Reference



BLE_BT4.0_Ant1_2480_30~1000



BLE_BT4.0_Ant1_2480_1000~26500



7.6. Radiated Spurious Emission Measurement

7.6.1. Test Limit

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR must not exceed the limits shown in Table per Section 15.209.

FCC Part 15 Subpart C Paragraph 15.209		
Frequency [MHz]	Field Strength [uV/m]	Measured Distance [Meters]
0.009 – 0.490	2400/F (kHz)	300
0.490 – 1.705	24000/F (kHz)	30
1.705 - 30	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

7.6.2. Test Procedure Used

ANSI C63.10-2013 – Section 6.6.4.3

7.6.3. Test Setting

Peak Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = as specified in Table 1
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

Table 1 - RBW as a function of frequency

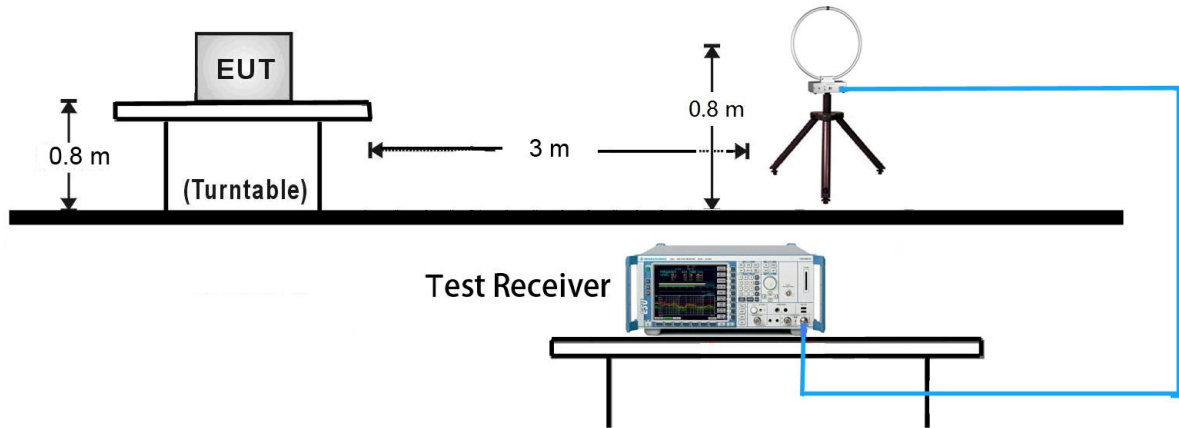
Frequency	RBW
9 ~ 150 kHz	200 ~ 300 Hz
0.15 ~ 30 MHz	9 ~ 10 kHz
30 ~ 1000 MHz	100 ~ 120 kHz
> 1000 MHz	1 MHz

Average Field Strength Measurements

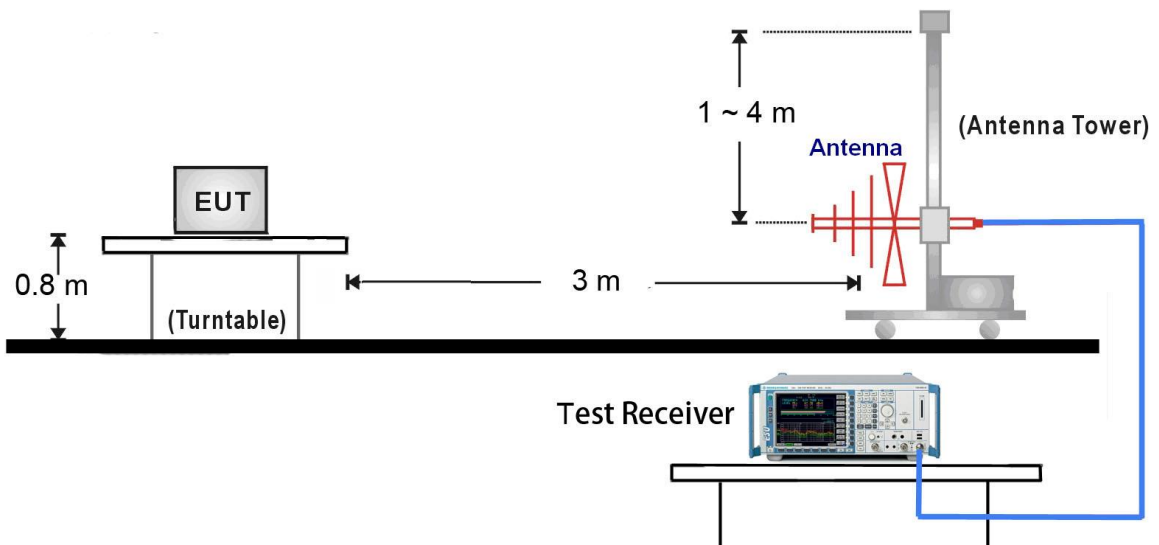
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = Power Average (RMS)
5. Number of sweep point = 2001 (Number of sweep points must be $\geq 2 \times \text{span} / \text{RBW}$)
6. Sweep time = auto
7. Trace (RMS) averaging was performed over at least 100 traces.

7.6.4. Test Setup

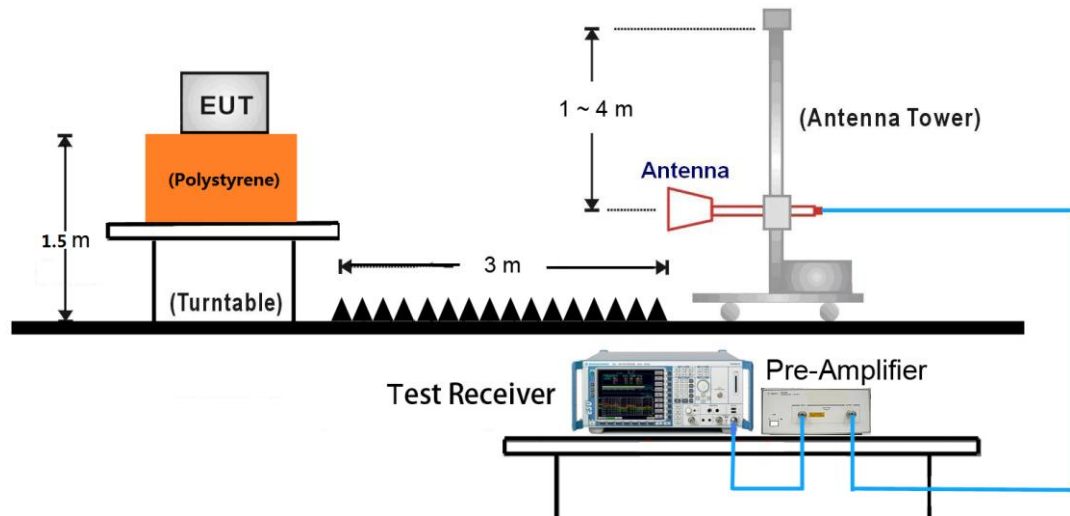
9kHz ~ 30MHz Test Setup:



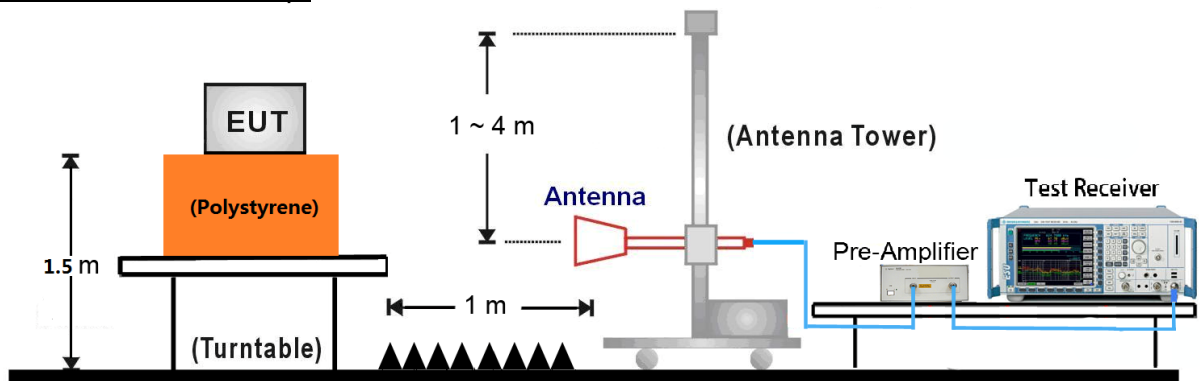
30MHz ~ 1GHz Test Setup:



1GHz ~ 18GHz Test Setup:



18GHz ~ 25GHz Test Setup:



7.6.5. Test Result

Test Mode:	BLE	Test Date:	2020-06-18
Test Channel:	00	Test Engineer:	Line Chen
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Level (dB μ V)	Factor (dB)	Limit (dB μ V/m)	Margin (dB)	Detector	Polarization
	4650.0000	43.25	7.15	74.00	30.75	Peak	Horizontal
	4987.5000	43.98	8.35	74.00	30.02	Peak	Horizontal
*	6045.0000	46.68	11.88	78.98	32.30	Peak	Horizontal
*	6360.0000	48.11	12.75	78.98	30.87	Peak	Horizontal
	4575.0000	42.72	7.15	74.00	31.28	Peak	Vertical
	4830.0000	43.70	7.64	74.00	30.30	Peak	Vertical
*	6300.0000	46.85	12.53	78.98	32.13	Peak	Vertical
*	6480.0000	47.83	12.66	78.98	31.15	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (98.98dB μ V/m) or 15.209 which is higher.

Test Mode:	BLE	Test Date:	2020-06-18
Test Channel:	19	Test Engineer:	Line Chen
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Level (dB μ V)	Factor (dB)	Limit (dB μ V/m)	Margin (dB)	Detector	Polarization
	4537.5000	43.54	7.17	74.00	30.46	Peak	Horizontal
	4837.5000	43.61	7.65	74.00	30.39	Peak	Horizontal
*	6292.5000	47.72	12.49	80.62	32.90	Peak	Horizontal
*	6457.5000	46.85	12.62	80.62	33.77	Peak	Horizontal
	4695.0000	43.44	7.30	74.00	30.56	Peak	Vertical
	4897.5000	45.10	7.95	74.00	28.90	Peak	Vertical
*	6150.0000	47.45	12.24	80.62	33.17	Peak	Vertical
*	6847.5000	47.62	13.44	80.62	33.00	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (100.62dB μ V/m) or 15.209 which is higher.

Test Mode:	BLE	Test Date:	2020-06-18
Test Channel:	39	Test Engineer:	Line Chen
Remark:	3. Average measurement was not performed if peak level lower than average limit. 4. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Level (dB μ V)	Factor (dB)	Limit (dB μ V/m)	Margin (dB)	Detector	Polarization
	4620.0000	42.97	7.10	74.00	31.03	Peak	Horizontal
	4912.5000	43.52	7.98	74.00	30.48	Peak	Horizontal
*	6285.0000	46.87	12.44	82.20	35.33	Peak	Horizontal
*	6465.0000	46.57	12.63	82.20	35.63	Peak	Horizontal
	4597.5000	43.49	7.08	74.00	30.51	Peak	Vertical
	4890.0000	44.42	7.91	74.00	29.58	Peak	Vertical
*	6097.5000	46.90	11.92	82.20	35.30	Peak	Vertical
*	6630.0000	47.57	13.06	82.20	34.63	Peak	Vertical

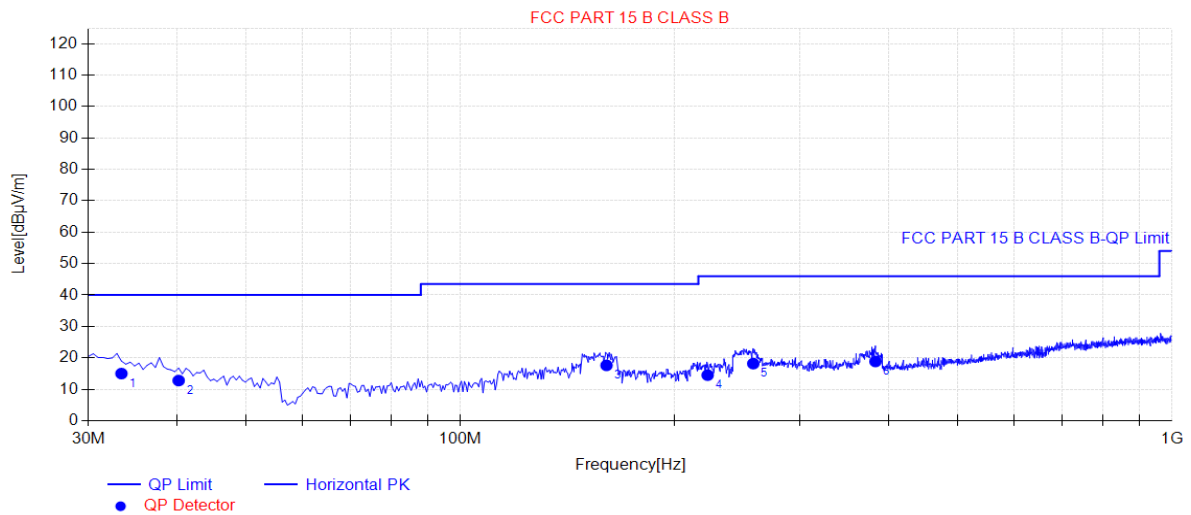
Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (102.20dB μ V/m) or 15.209 which is higher.

The worst case of Radiated Emission below 1GHz:

30MHz – 1GHz Test Data

EUT:	WYZE SPRINKLER CONTROLLER	Polarity:	Horizontal
Model:	WSPRK1	SN:	N/A
Mode:	Transmit by 802.11b at Channel 2437MHz	Voltage:	120V/60Hz
Environment:	Temp: 25°C; Humi:60%	Engineer:	Line Chen

Test Graph

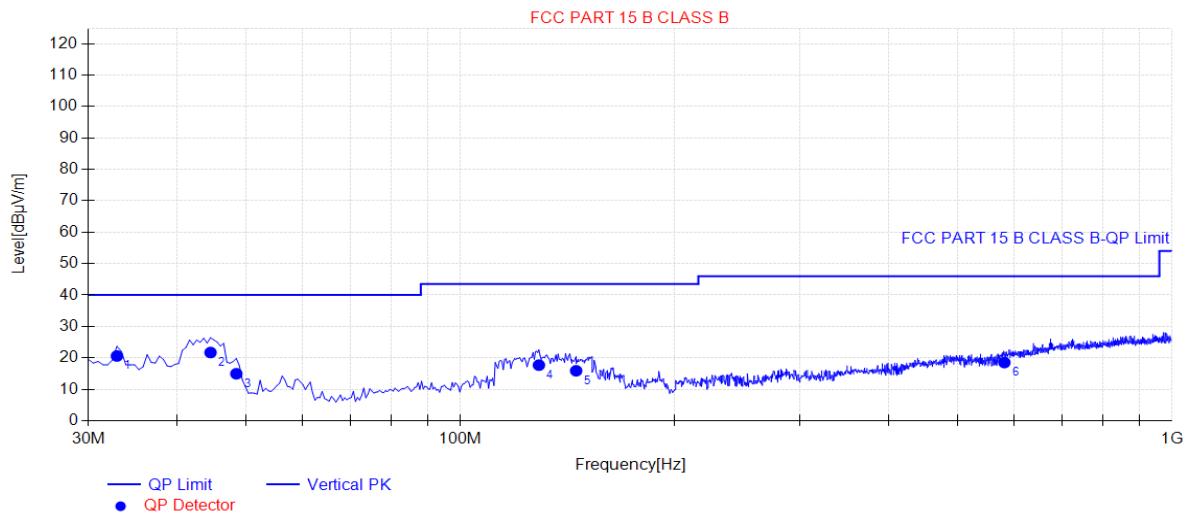


Final Data List								
NO.	Freq. [MHz]	Factor [dB]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	33.3950	17.83	15.00	40.00	25.00	200	301	Horizontal
2	40.1850	14.98	12.78	40.00	27.22	100	258	Horizontal
3	160.465	9.73	17.60	43.50	25.90	200	272	Horizontal
4	222.545	10.15	14.50	46.00	31.50	200	150	Horizontal
5	257.950	11.84	18.16	46.00	27.84	100	244	Horizontal
6	383.080	15.81	18.85	46.00	27.15	200	356	Horizontal

Note 1: The test trace is same as the ambient noise and the amplitude of the emissions are attenuated more than 20dB below the permissible (the test frequency range: 9kHz ~ 30MHz, 18GHz ~ 25GHz), therefore no data appear in the report.

EUT:	WYZE SPRINKLER	Polarity:	Vertical
Model:	WSPRK1	SN:	N/A
Mode:	Transmit by 802.11b at Channel 2437MHz	Voltage:	120V/60Hz
Environment:	Temp: 25°C; Humi:60%	Engineer:	Line Chen

Test Graph



Final Data List								
NO.	Freq. [MHz]	Factor [dB]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	32.9100	18.03	20.60	40.00	19.40	100	94	Vertical
2	44.5500	11.49	21.70	40.00	18.30	100	326	Vertical
3	48.4300	8.38	14.94	40.00	25.06	100	253	Vertical
4	128.940	11.54	17.68	43.50	25.82	100	351	Vertical
5	145.430	11.35	15.88	43.50	27.62	100	181	Vertical
6	581.445	19.58	18.52	46.00	27.48	200	129	Vertical

Note 1: The test trace is same as the ambient noise and the amplitude of the emissions are attenuated more than 20dB below the permissible (the test frequency range: 9kHz ~ 30MHz, 18GHz ~ 25GHz), therefore no data appear in the report.

7.7. Radiated Restricted Band Edge Measurement

7.7.1. Test Limit

For 15.205 requirement:

Radiated emissions which fall in the restricted bands, as defined in Section 15.205(a) of FCC part 15, must also comply with the radiated emission limits specified in Section 15.209(a).

Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (GHz)
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.25 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2690 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	(²)
13.36 - 13.41	--	--	--

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47CFR must not exceed the limits shown in Table per Section 15.209.

FCC Part 15 Subpart C Paragraph 15.209		
Frequency [MHz]	Field Strength [uV/m]	Measured Distance [Meters]
0.009 - 0.490	2400/F (kHz)	300
0.490 - 1.705	24000/F (kHz)	30
1.705 - 30	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

For RSS-Gen Section 8.10 requirement:

Radiated emissions which fall in the restricted bands, as defined in Section 8.10 of RSS-Gen, must also comply with the radiated emission limits specified in Section 8.9.

Frequency (MHz)	Frequency (MHz)	Frequency (GHz)
0.009 - 0.110	240 - 285	9.0 - 9.2
2.1735 - 2.1905	322 - 335.4	9.3 - 9.5
3.020 - 3.026	399.9 - 410	10.6 - 12.7
4.125 - 4.128	608 - 614	13.25 - 13.4
4.17725 - 4.17775	960 - 1427	14.47 - 14.5
4.20725 - 4.20775	1435 - 1626.5	15.35 - 16.2
5.677 - 5.683	1645.5 - 1646.5	17.7 - 21.4
6.215 - 6.218	1660 - 1710	22.01 - 23.12
6.26775 - 6.26825	1718.8 - 1722.2	23.6 - 24.0
6.31175 - 6.31225	2200 - 2300	31.2 - 31.8
8.291 - 8.294	2310 - 2390	36.43 - 36.5
8.362 - 8.366	2655 - 2900	Above 38.6
8.37625 - 8.38675	3260 - 3267	--
8.41425 - 8.41475	3332 - 3339	
12.29 - 12.293	334.5 - 3358	
12.51975 - 12.52025	3500 - 4400	
12.57675 - 12.57725	4500 - 5150	
13.36 - 13.41	5350 - 5460	
16.42 - 16.423	7250 - 7750	
16.69475 - 16.69525	8025 - 8500	
16.80425 - 16.80475	--	
25.5 - 25.67		
37.5 - 38.25		
73 - 74.6		
74.8 - 75.2		
108 - 138		
156.52475 - 156.525225		
156.7 - 156.9		

All out of band emissions appearing in a restricted band as specified in Section 8.10 of the RSS-Gen

must not exceed the limits shown in Table per Section 8.9.

RSS-Gen Section 8.9		
Frequency [MHz]	Field Strength [uV/m]	Measured Distance [Meters]
0.009 - 0.490	2400/F (kHz)	300
0.490 - 1.705	24000/F (kHz)	30
1.705 - 30	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

7.7.2. Test Procedure Used

ANSI C63.10 Section 6.3 (General Requirements)

ANSI C63.10 Section 6.6 (Standard test method above 1GHz)

7.7.3. Test Setting

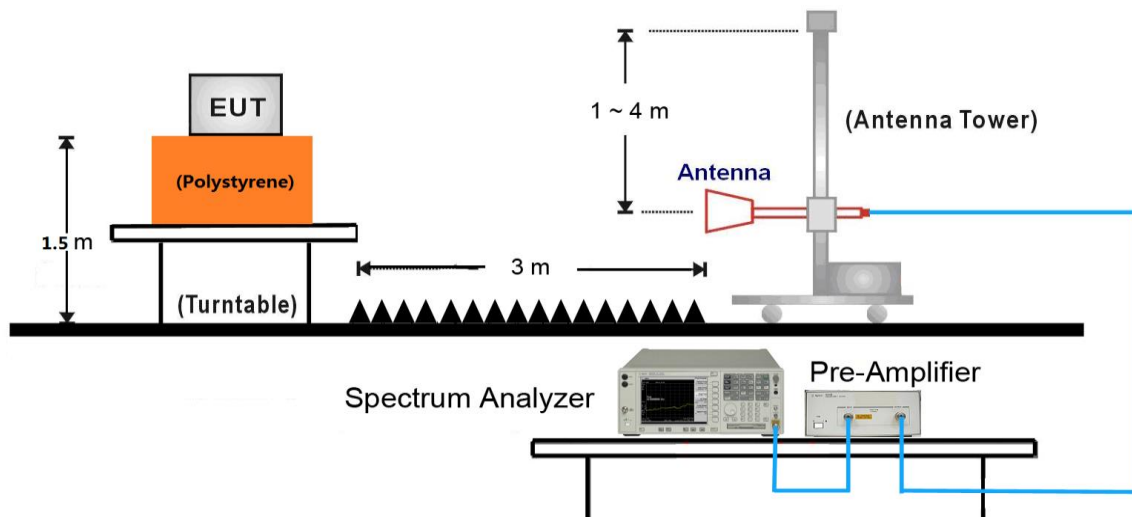
Peak Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

Average Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = Power Average (RMS)
5. Number of sweep point = 2001 (Number of sweep points must be $\geq 2 \times \text{span} / \text{RBW}$)
6. Sweep time = auto
7. Trace (RMS) averaging was performed over at least 100 traces.

7.7.4. Test Setup



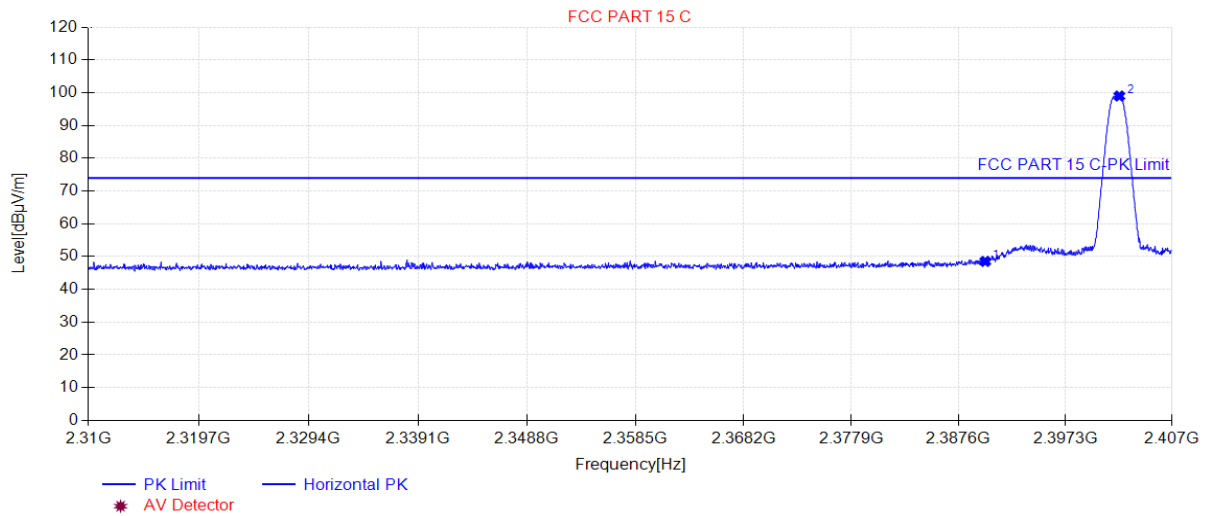
Note: This item was performed with the WIFI antenna connected.

7.7.5. Test Result

Project Information			
EUT:	WYZE SPRINKLER	Model:	WSPRK1
SN:	N/A	Voltage:	AC 120V/60Hz
Environment:	Temp: 25°C; Humi:60%	Engineer:	Line Chen
Remark:	Transmit by BLE at Channel 2402MHz		

Start of Test:2020-06-17 16:24:33

Test Graph

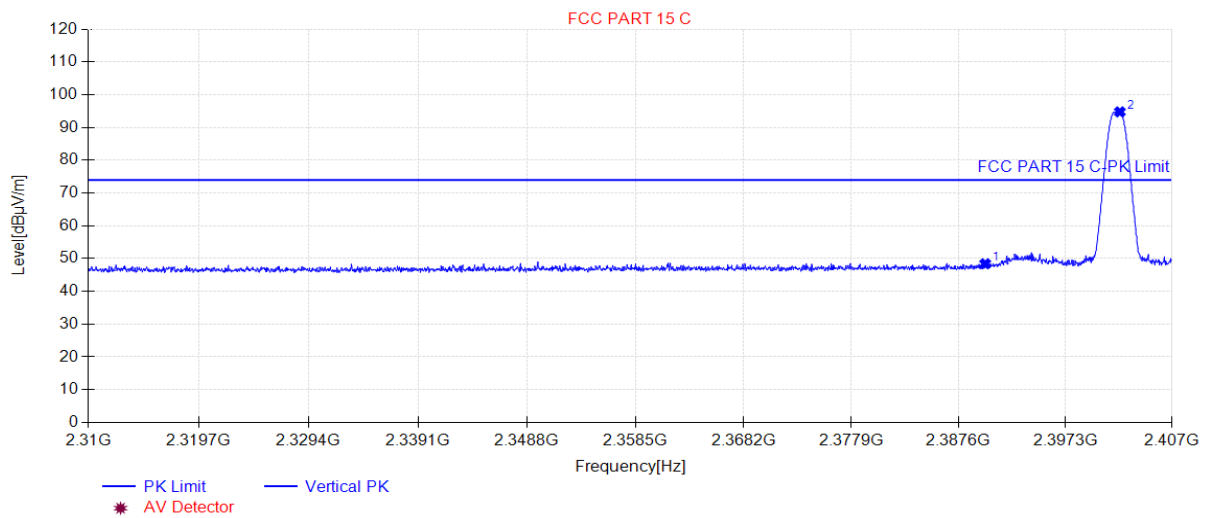


Suspected Data List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2390.00	48.54	35.27	74.00	25.46	160	21	Horizontal
2	2402.19	98.98	35.31	N/A	N/A	160	12	Horizontal

Project Information			
EUT:	WYZE SPRINKLER	Model:	WSPRK1
SN:	N/A	Voltage:	AC 120V/60Hz
Environment:	Temp: 25°C; Humi:60%	Engineer:	Line Chen
Remark:	Transmit by BLE at Channel 2402MHz		

Start of Test:2020-06-17 16:25:45

Test Graph

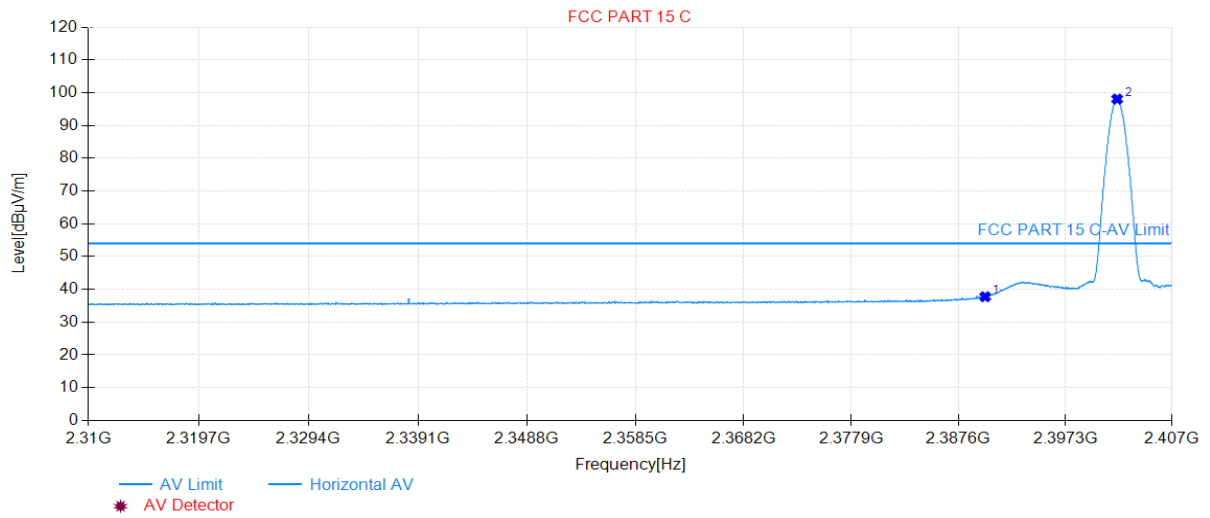


Suspected Data List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2390.00	48.41	35.27	74.00	25.59	160	12	Vertical
2	2402.24	94.76	35.31	N/A	N/A	160	251	Vertical

Project Information			
EUT:	WYZE SPRINKLER	Model:	WSPRK1
SN:	N/A	Voltage:	AC 120V/60Hz
Environment:	Temp: 25°C; Humi:60%	Engineer:	Line Chen
Remark:	Transmit by BLE at Channel 2402MHz		

Start of Test:2020-06-17 16:28:18

Test Graph

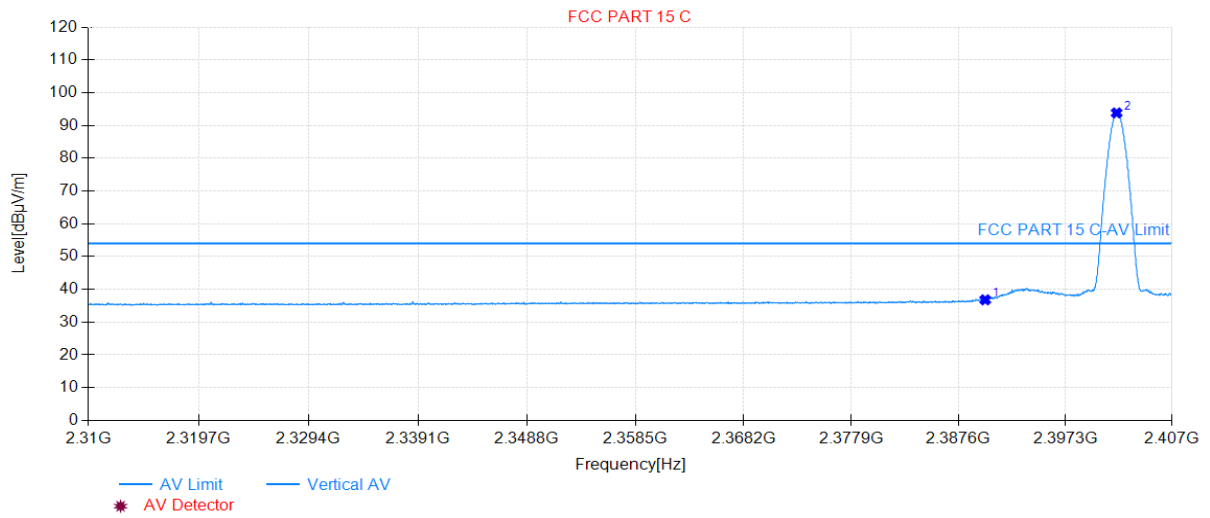


Suspected Data List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2390.00	37.75	35.27	54.00	16.25	160	1	Horizontal
2	2402.00	98.05	35.31	N/A	N/A	160	12	Horizontal

Project Information			
EUT:	WYZE SPRINKLER	Model:	WSPRK1
SN:	N/A	Voltage:	AC 120V/60Hz
Environment:	Temp: 25°C; Humi:60%	Engineer:	Line Chen
Remark:	Transmit by BLE at Channel 2402MHz		

Start of Test:2020-06-17 16:29:29

Test Graph

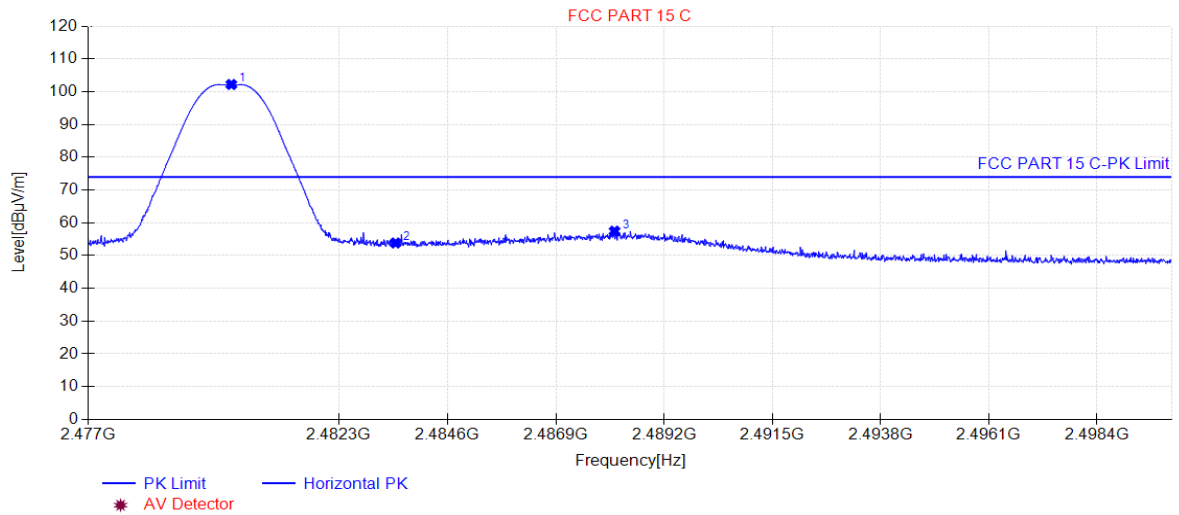


Suspected Data List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2390.00	36.80	35.27	54.00	17.20	160	253	Vertical
2	2401.95	93.82	35.31	N/A	N/A	160	244	Vertical

Project Information			
EUT:	WYZE SPRINKLER	Model:	WSPRK1
SN:	N/A	Voltage:	AC 120V/60Hz
Environment:	Temp: 25°C; Humi:60%	Engineer:	Line Chen
Remark:	Transmit by BLE at Channel 2480MHz		

Start of Test:2020-06-17 16:19:22

Test Graph

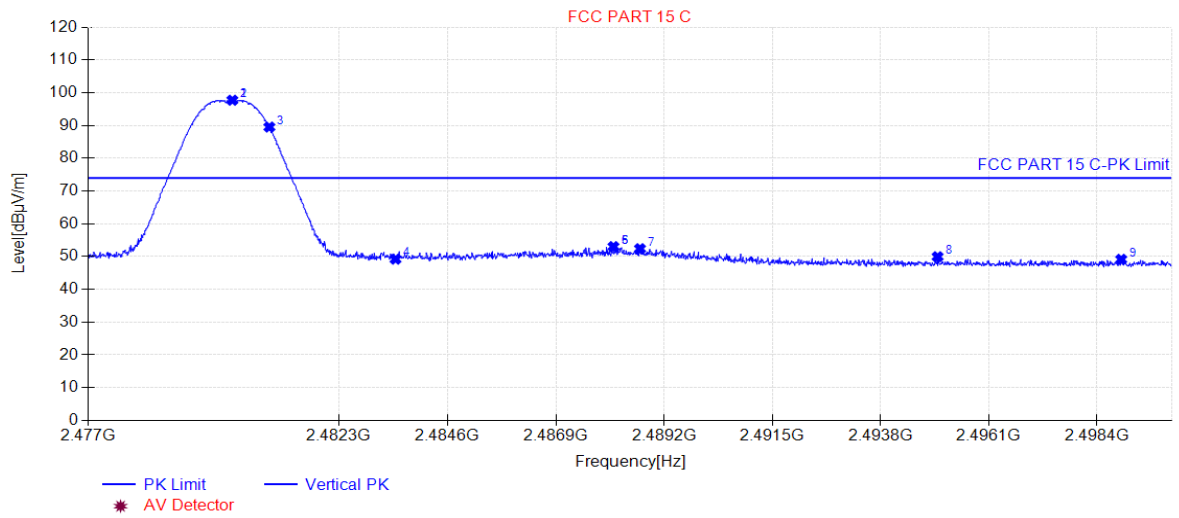


Suspected Data List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2480.02	102.20	35.48	N/A	N/A	160	357	Horizontal
2	2483.50	53.84	35.48	74.00	20.16	160	0	Horizontal
3	2488.14	57.46	35.47	74.00	16.54	160	1	Horizontal

Project Information			
EUT:	WYZE SPRINKLER	Model:	WSPRK1
SN:	N/A	Voltage:	AC 120V/60Hz
Environment:	Temp: 25°C; Humi:60%	Engineer:	Line Chen
Remark:	Transmit by BLE at Channel 2480MHz		

Start of Test:2020-06-17 16:20:34

Test Graph

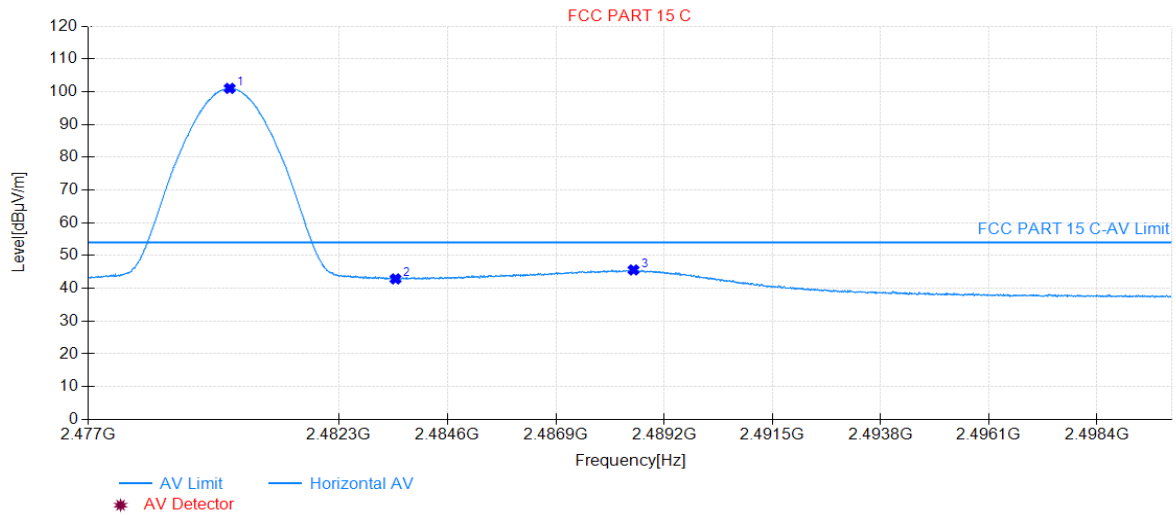


Suspected Data List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2480.04	97.70	35.48	N/A	N/A	160	247	Vertical
4	2483.50	49.21	35.48	74.00	24.79	160	247	Vertical
6	2488.12	53.03	35.47	74.00	20.97	160	252	Vertical

Project Information			
EUT:	WYZE SPRINKLER	Model:	WSPRK1
SN:	N/A	Voltage:	AC 120V/60Hz
Environment:	Temp: 25°C; Humi:60%	Engineer:	Line Chen
Remark:	Transmit by BLE at Channel 2480MHz		

Start of Test:2020-06-17 16:15:32

Test Graph

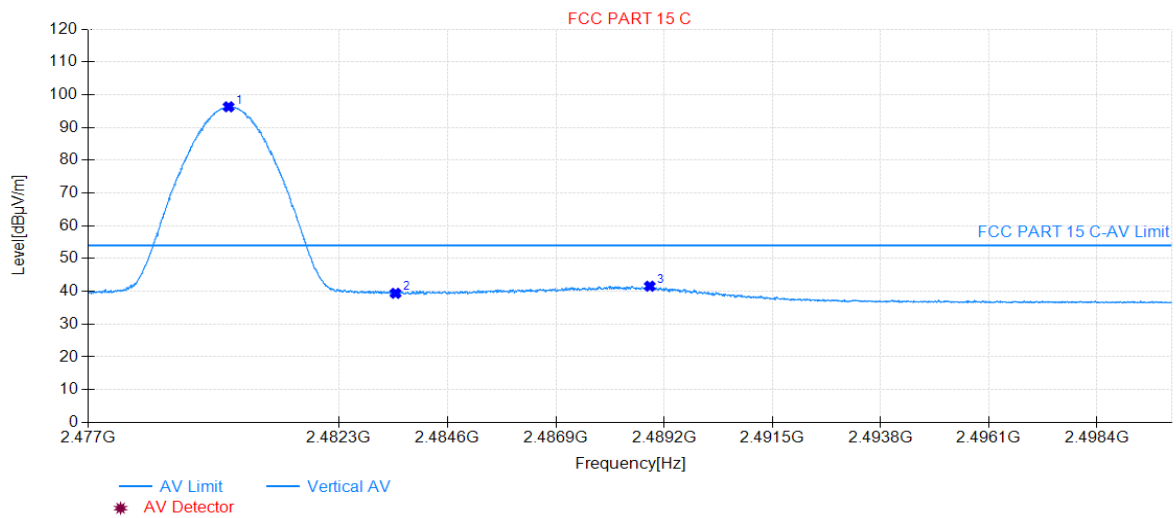


Suspected Data List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2479.99	101.01	35.48	N/A	N/A	160	2	Horizontal
2	2483.50	42.88	35.48	54.00	11.12	160	1	Horizontal
3	2488.54	45.61	35.47	54.00	8.39	160	0	Horizontal

Project Information			
EUT:	WYZE SPRINKLER	Model:	WSPRK1
SN:	N/A	Voltage:	AC 120V/60Hz
Environment:	Temp: 25°C; Humi:60%	Engineer:	Line Chen
Remark:	Transmit by BLE at Channel 2480MHz		

Start of Test:2020-06-17 16:16:43

Test Graph



Suspected Data List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2479.96	96.30	35.48	N/A	N/A	160	251	Vertical
2	2483.50	39.40	35.48	54.00	14.60	160	251	Vertical
3	2488.89	41.57	35.47	54.00	12.43	160	251	Vertical

7.8. AC Conducted Emissions Measurement

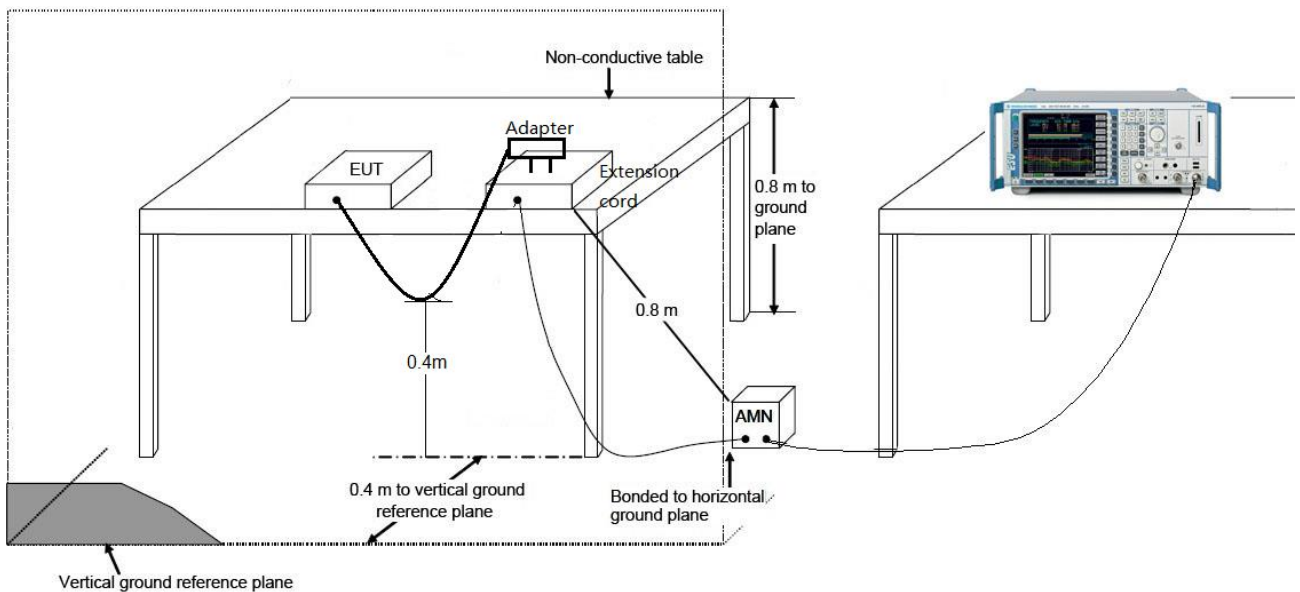
7.8.1. Test Limit

FCC Part 15 Subpart C Paragraph 15.207 Limits		
Frequency (MHz)	QP (dBuV)	AV (dBuV)
0.15 - 0.50	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30	60	50

Note 1: The lower limit shall apply at the transition frequencies.

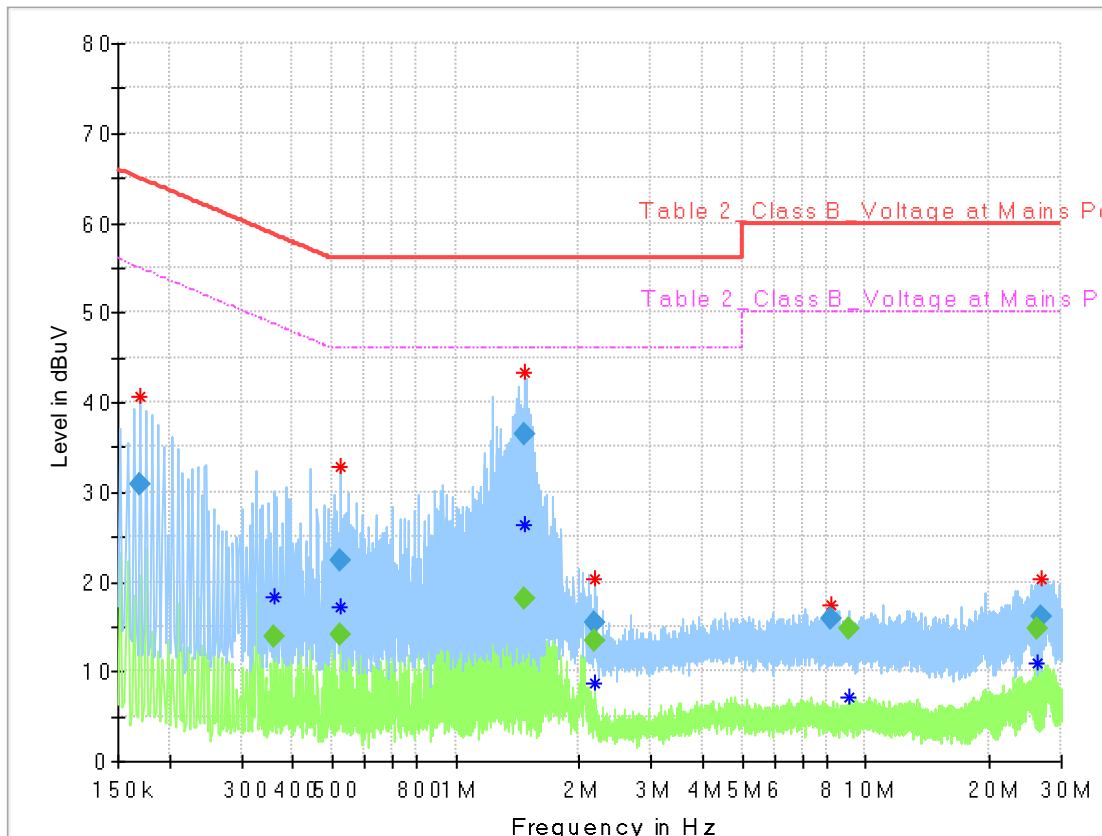
Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.5MHz.

7.8.2. Test Setup



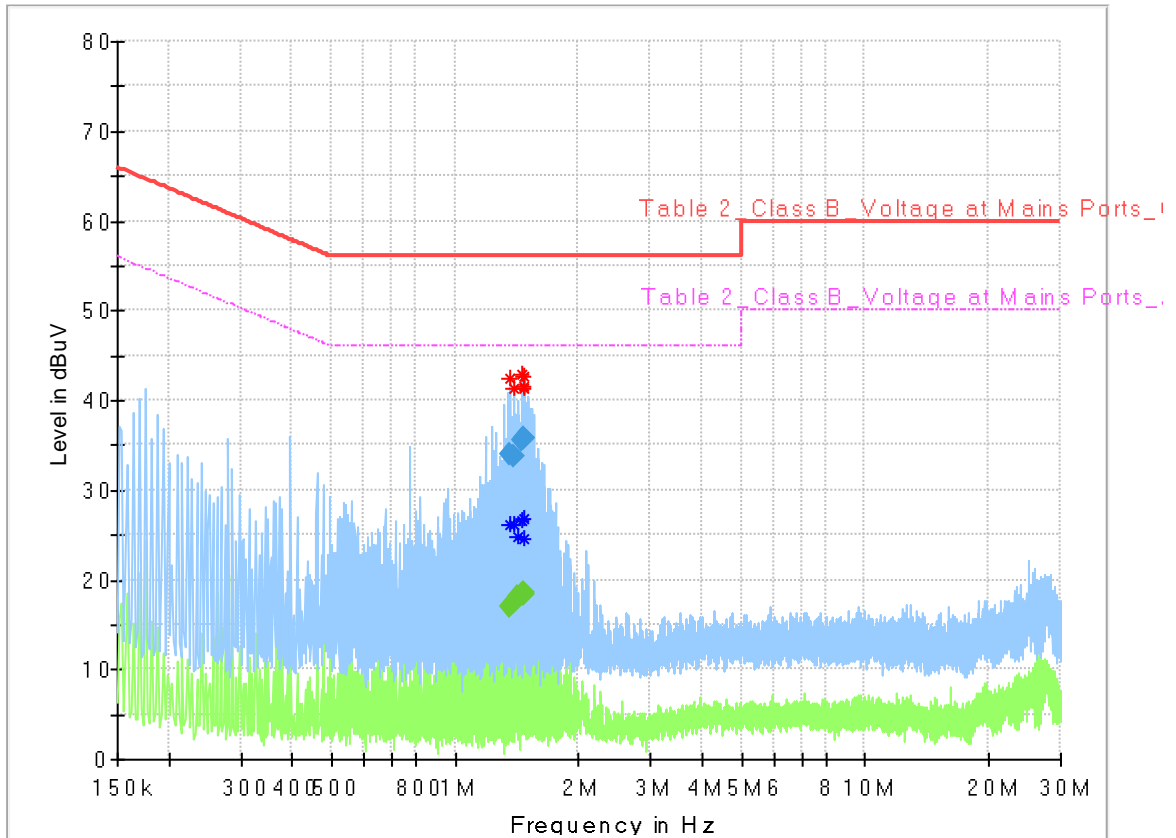
7.8.3. Test Result

EUT:	WYZE SPRINKLER CONTROLLER	Polarity:	LINE
Model:	WSPRK1	Voltage:	120V/60Hz
Environment:	Temp: 25°C; Humi:60%	Engineer:	Line Chen



Frequency (MHz)	QuasiPeak (dBuV)	Average (dBuV)	Limit (dBuV)	Margin (dB)	Meas. Time	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.170000	30.85	---	64.96	34.11	1000.	9.000	L1	ON	9.9
0.360000	---	13.80	48.73	34.93	1000.	9.000	L1	ON	10.0
0.522000	---	14.16	46.00	31.84	1000.	9.000	L1	ON	10.1
0.522000	22.28	---	56.00	33.72	1000.	9.000	L1	ON	10.1
1.470000	---	18.19	46.00	27.81	1000.	9.000	L1	ON	9.9
1.470000	36.46	---	56.00	19.54	1000.	9.000	L1	ON	9.9
2.188000	---	13.46	46.00	32.54	1000.	9.000	L1	ON	9.8
2.194000	15.37	---	56.00	40.63	1000.	9.000	L1	ON	9.8
8.188000	15.96	---	60.00	44.04	1000.	9.000	L1	ON	9.8
9.098000	---	14.73	50.00	35.27	1000.	9.000	L1	ON	9.8
26.262000	---	14.72	50.00	35.28	1000.	9.000	L1	ON	9.9
26.924000	16.18	---	60.00	43.82	1000.	9.000	L1	ON	9.9

EUT:	WYZE SPRINKLER CONTROLLER	Polarity:	NEUTRAL
Model:	WSPRK1	Voltage:	120V/60Hz
Environment:	Temp: 25°C; Humi:60%	Engineer:	Line Chen



Frequency (MHz)	QuasiPeak (dBuV)	Average (dBuV)	Limit (dBuV)	Margin (dB)	Meas. Time	Bandwidth (kHz)	Line	Filter	Corr. (dB)
1.366000	---	17.00	46.00	29.00	1000.	9.000	N	ON	9.9
1.366000	33.94	---	56.00	22.06	1000.	9.000	N	ON	9.9
1.384000	---	17.51	46.00	28.49	1000.	9.000	N	ON	9.9
1.384000	33.72	---	56.00	22.28	1000.	9.000	N	ON	9.9
1.430000	---	18.13	46.00	27.87	1000.	9.000	N	ON	9.9
1.448000	35.53	---	56.00	20.47	1000.	9.000	N	ON	9.9
1.448000	---	18.34	46.00	27.66	1000.	9.000	N	ON	9.9
1.464000	35.79	---	56.00	20.21	1000.	9.000	N	ON	9.9
1.470000	35.73	---	56.00	20.27	1000.	9.000	N	ON	9.9
1.470000	---	18.27	46.00	27.73	1000.	9.000	N	ON	9.9
1.476000	---	18.55	46.00	27.45	1000.	9.000	N	ON	9.9
1.476000	35.81	---	56.00	20.19	1000.	9.000	N	ON	9.9

8. CONCLUSION

The data collected relate only the item(s) tested and show that the **WYZE SPRINKLER CONTROLLER** is in compliance with Part 15C of the FCC and RSS Rules.

The End