



# FCC Part 15.407

# RSS-247 Issue 2, February 2017

# **DYNAMIC FREQUENCY SELECTION**

# **TEST REPORT**

For

# YEALINK(XIAMEN) NETWORK TECHNOLOGY

# CO.,LTD.

No.666 Hu'an Rd, Huli District Xiamen City, Fujian, P.R. China

# FCC ID: T2C-T31W IC: 10741A-T31W

<b>Report Type:</b> Original Report	<b>Product Type:</b> Classic IP Phone
Report Number : <u>RXZ230</u>	630065RF01
Report Date : <u>2023-07-</u>	-18
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# **Revision History**

Revision	No.	Report Number	Issue Date	Description	Author/	
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0.0	RXZ230630065	RXZ230630065RF01	2023-07-18	Original Report	Lynette	

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# **1** General Information

## **1.1 Product Description for Equipment under Test (EUT)**

Annlisont	YEALINK(XIAMEN) NETWORK TECHNOLOGY CO.,LTD.
Applicant	No.666 Hu'an Rd,Huli District Xiamen City, Fujian, P.R. China
Brand(Trade) Name	Yealink
Product (Equipment) / PMN	Classic IP Phone
Main Model Name	SIP-T31W
HVIN	T31W
Eraguanay Danga	5250 MHz ~ 5350 MHz, 5470 MHz ~ 5725 MHz
Frequency Kange	Note: frequency range 5600-5650MHz can`t be used in Canada
Modulation Technique	OFDM
	PCB Antenna
Antenna Specification	Band 2 Gain: 1.26 dBi
	Band 3 Gain: 1.53 dBi
Power Operation	<ul> <li>AC 120V/60Hz</li> <li>Adapter I/P: 100-240V 50~60Hz 0.2A, O/P: 5Vdc, 0.6A</li> <li>By AC Power Cord</li> <li>PoE: I/P: 100-240V 50~60Hz 0.67A, O/P: 55Vdc, 0.6A</li> </ul>
(Voltage Range)	DC from Battery DC from Adapter
	Host System
Received Date	2023/7/3
Date of Test	2023/7/5 ~ 2023/7/6

\*All measurement and test data in this report was gathered from production sample serial number: RXZ230630065-01 (Assigned by BACL, New Taipei Laboratory).

### 1.2 Objective

This report is prepared on behalf of *YEALINK(XIAMEN)* NETWORK TECHNOLOGY CO.,LTD. in accordance with Part 2 Subpart J, Part 15 Subparts E of the Federal Communication Commission's rules and RSS-247 Issue 2, February 2017 and RSS-GEN Issue 5, February 2021 Amendment 2 of the Innovation, Science and Economic Development Canada.

The tests were performed in order to determine compliance with FCC Part 15.407(h) and RSS-247 Issue 2, February 2017 Radar Detection Function of Dynamic Frequency Selection (DFS).

#### 1.3 Test Methodology

FCC CFR 47 Part15.407 (h) RSS-247 Issue 2, February 2017 FCC KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02

#### 1.4 Statement

Decision Rule: No, (The test results do not include MU judgment)

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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.

The determination of the test results does not require consideration of the uncertainty of the measurement, unless the assessment is required by customer agreement, regulation or standard document specification.

Bay Area Compliance Laboratories Corp. (New Taipei Laboratory) is not responsible for the authenticity of the information provided by the applicant that affects the test results.

Parameter	Uncertainty
DFS Level	±3.06 dB
Time Domain	±0.21 s
Temperature	±0.79 °C
Humidity	±0.44 %

#### 1.5 Measurement Uncertainty

Note: The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval. Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty

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#### **1.6 Environmental Conditions**

Test Site	Test Date	Temperature (°C)	Relative Humidity (%)	ATM Pressure (hPa)	Test Engineer
DFS	2023/7/5~2023/7/6	25.3~25.5	41~51	1010	Jing

## 1.7 Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (New Taipei Laboratory) to collect test data is located on

70, Lane 169, Sec. 2, Datong Road, Xizhi Dist., New Taipei City 22183, Taiwan, R.O.C.

Bay Area Compliance Laboratories Corp. (New Taipei Laboratory) is accredited to ISO 17025 by Taiwan Accreditation Foundation (TAF code: 3732) and the FCC designation No.TW3732 under the Mutual Recognition Agreement (MRA) in FCC Test.

The lab has been recognized by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements, the CAB identifier: TW3732.

## 2 System Test Configuration

### 2.1 Description of Test Configuration

The EUT was configured for testing in a normal mode which was provided by the manufacturer.

### 2.2 Equipment Modifications

No modification was made to the EUT.

#### 2.2 EUT Exercise Software

EUT the firmware version is "124.86.254.16"

#### 2.3 Support Equipment List and Details

Description	Manufacturer	Model Number
Adapter	Yealink	YLPS050600E1-US
NB	DELL	E6410
AP Router	NETGEAR	R7800

Master device FCC ID: PY315100319

### 2.4 External Cable List and Details

N/A

### 2.5 Block Diagram of Test Setup



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# 3 Summary of Test Results

The following result table represents the list of measurements required under the CFR §47 Part 15.407(h) and RSS-247, Issue 2, February 2017, KDB: 905462 D02 UNII DFS Compliance Procedures New Rules v02

Items	Description of Test	Results
Detection Bandwidth	UNII Detection Bandwidth	Not applicable
Performance Requirements	Initial Channel Availability Check Time (CAC)	Not applicable
Check	Radar Burst at the Beginning of the CAC	Not applicable
	Radar Burst at the End of the CAC	Not applicable
	Channel Move Time	Compliant
In-Service Monitoring	Channel Closing Transmission Time	Compliant
	Non-Occupancy Period	Compliant
Radar Detection	Statistical Performance Check	Not applicable

Not applicable: the EUT is a client unit without radar detection.

Description	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due Date
Spectrum Analyzer	Rohde & Schwarz	FSV40	101939	2023/3/23	2024/3/22
Signal Generator	Rohde & Schwarz	SMBV100A	261748	2023/2/10	2024/02/09
Cable	UTIFLEX	UFA210A	9435	2022/10/3	2023/10/2
Cable	UTIFLEX	UFA210A	6679	2022/10/3	2023/10/2
Cable	UTIFLEX	UFA210A	9422	2022/10/3	2023/10/2
Attenuator	MCL	BW-S10W5+	1419	2023/2/2	2024/2/1
Attenuator	MCL	BW-S20W5+	1430	2023/6/6	2024/6/4
Power Splitter	Mini-Circuits	ZFRSC-183- S+	S F448201614	2023/6/6	2024/6/4

# 4 Test Equipment List and Details

\*Statement of Traceability: BACL Corp. attests that all of the calibrations on the equipment items listed above were traceable to the SI System of Units via the R.O.C. Center for Measurement Standards of the Electronics Testing Center, Taiwan (ETC) or to another internationally recognized National Metrology Institute (NMI), and were compliant with the current Taiwan Accreditation Foundation (TAF) requirements

# 5 Applicable Standards

## 5.1 DFS Requirement

CFR §47 Part 15.407(h) and RSS-247, Issue 2, February 2017

FCC KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02

Table	1:	Applic	ability	of DFS	Require	nents Prio	or to	Use of	a	Channel
		- pp						0.00 01		~

Requirement	Operational Mode				
	Master	Client Without Radar Detection	Client With Radar Detection		
Non-Occupancy Period	Yes	Not required	Yes		
DFS Detection Threshold	Yes	Not required	Yes		
Channel Availability Check Time	Yes	Not required	Not required		
U-NII Detection Bandwidth	Yes	Not required	Yes		

Table 2: Applicability of DFS requirements during normal operation

Requirement	Operational Mode				
	Master Device or Client Client Withou				
	with Radar Detection	Radar Detection			
DFS Detection Threshold	Yes	Not required			
Channel Closing Transmission Time	Yes	Yes			
Channel Move Time	Yes	Yes			
U-NII Detection Bandwidth	Yes	Not required			

Additional requirements for devices with multiple bandwidth modes	Master Device or Client with Radar Detection	Client Without Radar Detection		
U-NII Detection Bandwidth and	All BW modes must be	Not required		
Statistical Performance Check	tested			
Channel Move Time and Channel	Test using widest BW mode	Test using the widest		
Closing Transmission Time	available	BW mode available		
		for the link		
All other tests	Any single BW mode	Not required		
Note: Frequencies selected for statistical p	erformance check (Section 7.8	.4) should include		
several frequencies within the radar detection bandwidth and frequencies near the edge of				
the radar detection bandwidth. For 802.11 devices it is suggested to select frequencies in				
each of the bonded 20 MHz channe	ls and the channel center freque	ency.		

#### Table 3: DFS Detection Thresholds for Master Devices and Client Devices With Radar Detection

Maximum Transmit Power	Value			
	(See Notes 1, 2, and 3)			
$EIRP \ge 200 \text{ milliwatt}$	-64 dBm			
EIRP < 200 milliwatt and	-62 dBm			
power spectral density $\leq$ 10 dBm/MHz				
EIRP < 200 milliwatt that do not meet the power spectral	-64 dBm			
density requirement				
Note 1: This is the level at the input of the receiver assuming a 0 dBi receive antenna.				
Note 2: Throughout these test procedures an additional 1 dB has been added to the amplitude of the test				
transmission waveforms to account for variations in measurement equipment. This will ensure that the				
test signal is at or above the detection threshold level to trigger a DFS response.				
Note3: EIRP is based on the highest antenna gain. For MIMO devices refer to KDB Publication 66291				
D01.				

Parameter	Value
Non-occupancy period	Minimum 30 minutes
Channel Availability Check Time	60 seconds
Channel Move Time	10 seconds
	See Note 1.
Channel Closing Transmission Time	200 milliseconds + an
	aggregate of 60
	milliseconds over
	remaining 10 second
	period.
	See Notes 1 and 2.
U-NII Detection Bandwidth	Minimum 100% of the U-
	NII 99% transmission
	power bandwidth. See
	Note 3.

#### Table 4: DFS Response Requirement Values

Note 1: Channel Move Time and the Channel Closing Transmission Time should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst. Note 2: The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time also any additional intermittent control signals required

the beginning of the *Channel Move Time* plus any additional intermittent control signals required to facilitate a *Channel* move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.

**Note 3:** During the *U-NII Detection Bandwidth* detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.

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Table 5 – Short Pulse Radar Test Waveforms							
Radar	Pulse	PRI	Number of Pulses	Minimum	Minimum		
Type	Width	(µsec)		Percentage of	Number		
	(µsec)			Successful	of		
				Detection	Trials		
0	1	1428	18	See Note 1	See Note		
					1		
1	1	Test A: 15 unique PRI values	$\left[\left(\frac{1}{260}\right)\right]$	60%	30		
		randomly selected	Roundun				
		from the list of 23	(19.10 <sup>6</sup> )				
		PRI values in	PRI				
		Table 5a	(\ #sec / ]				
		Test B: 15 unique					
		PRI values					
		randomly selected					
		within the range					
		of 518-3066 µsec,					
		with a minimum					
		increment of 1					
		µsec, excluding					
		PRI values					
2	1.5	selected in Test A	22.20	(00/	20		
2	1-5	150-230	23-29	60%	30		
3	6-10	200-500	16-18	60%	30		
4	11-20	200-500	12-16	60%	30		
Aggregate (	Radar Types	<u>1-4)</u>		80%	120		
Note 1: She	ort Pulse Rada	r Type 0 should be u	sed for the detection ba	ndwidth test, ch	annel move		
time, and channel closing time tests.							

A minimum of 30 unique waveforms are required for each of the Short Pulse Radar Types 2 through 4. If more than 30 waveforms are used for Short Pulse Radar Types 2 through 4, then each additional waveform must also be unique and not repeated from the previous waveforms. If more than 30 waveforms are used for Short Pulse Radar Type 1, then each additional waveform is generated with Test B and must also be unique and not repeated from the previous waveforms in Tests A or B.

For example if in Short Pulse Radar Type 1 Test B a PRI of 3066 usec is selected, the number of pulses would be Roundup  $\left\{ \left(\frac{1}{360}\right) \cdot \left(\frac{19 \cdot 10^6}{3066}\right) \right\} = \text{Roundup}\{17.2\} = 18.$ 

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Pulse Repetition Frequency Number	Pulse Repetition Frequency (Pulses Per Second)	Pulse Repetition Interval (Microseconds)
1	1930.5	518
2	1858.7	538
3	1792.1	558
4	1730.1	578
5	1672.2	598
б	1618.1	618
7	1567.4	638
8	1519.8	658
9	1474.9	678
10	1432.7	698
11	1392.8	718
12	1355	738
13	1319.3	758
14	1285.3	778
15	1253.1	798
16	1222.5	818
17	1193.3	838
18	1165.6	858
19	1139	878
20	1113.6	898
21	1089.3	918
22	1066.1	938
23	326.2	3066

#### Table 5a - Pulse Repetition Intervals Values for Test A

The aggregate is the average of the percentage of successful detections of Short Pulse Radar Types 1-4. For example, the following table indicates how to compute the aggregate of percentage of successful detections.

Radar Type	Number of Trials	Number of Successful	Minimum Percentage		
		Detections	of Successful		
			Detection		
1	35	29	82.9%		
2	30	18	60%		
3	30	27	90%		
4	50	44	88%		
Aggregate (82.9% + 60% + 90% + 88%)/4 = 80.2%					

Tuble o Bong Tube Futuri Test Waveform								
Radar	Pulse	Chirp	PRI	Number	Number	Minimum	Minimum	
Type	Width	Width	(µsec)	of Pulses	of Bursts	Percentage of	Number of	
	(µsec)	(MHz)		per Burst		Successful	Trials	
				_		Detection		
5	50-100	5-20	1000-	1-3	8-20	80%	30	
			2000					

#### Table 6 – Long Pulse Radar Test Waveform

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	Table 7 – Frequency Hopping Radar Test Waveform							
Radar	Pulse	PRI	Pulses	Hopping	Hopping	Minimum	Minimum	
Type	Width	(µsec)	per	Rate	Sequence	Percentage of	Number of	
	(µsec)		Hop	(kHz)	Length	Successful	Trials	
					(msec)	Detection		
6	1	333	9	0.333	300	70%	30	

## 5.2 DFS Measurement System

BACL DFS measurement system consists of two subsystems: (1) The radar signal generating subsystem and (2) the traffic monitoring subsystem.

## 5.3 System Block Diagram



#### **Conducted Method**



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#### Setup for Master with injection at the Master



### Setup for Client with injection at the Master



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#### Setup for Client with injection at the Client



#### 5.4 Test Procedure

A spectrum analyzer is used as a monitor verifies that the EUT status including Channel Closing Transmission Time and Channel Move Time, and does not transmit on a Channel during the Non-Occupancy Period after the diction and Channel move.

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## 6 Test Result

### 6.1 Description of EUT

The EUT operates in 5250-5350 MHz and 5470-5725 MHz range.

The rated output power of master device is >23 dBm (EIRP), therefore the required interference threshold level is -64 dBm, the required radiated threshold at antenna port is -64dBm.

Throughout these test procedures an additional 1 dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response.

The calibrated radiated DFS detection threshold level is set to -64+1+(Master anttenna gain:)=

Band 2 : -64+1.11+1= -61.89 dBm. Band 3 : -64+1.61+1= -61.39 dBm

#### 6.2 Channel Loading

WLAN traffic is generated by software "Lan Test20", software is used by IP and Frame based systems for loading the test channel during the In service compliance testing of the U-NII device. Data pakge streamed from the Access Point to the Client using the software "Lan Test20".

#### 6.3 Radar Waveform Calibration

#### 5290 MHz:



#### 5530 MHz:

Radar Type 0



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## 7 Channel Move Time and Channel Closing Transmission Time

### 7.1 Test Procedure

Perform type 0 short pulse radar waveform. The aggregate channel closing transmission time is calculated as follows:

Aggregate Transmission Time = N\*Dwell Time

N is the number of spectrum analyzer bins showing a device transmission Dwell Time is the dwell time per bin (i.e. Dwell Time = S/B, S is the sweep time and B is the number of bin, i.e. 8001)

7.2	Test Results

Frequency (MHz)	Bandwidth (MHz)	Radar Type	Results
5290	80	Type 0	Compliant
5530	80	Type 0	Compliant

Please refer to the following tables and plots.

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### 5290 MHz

Type 0 radar channel move time result:

Item	Time (s)	Limit (s)
Channel move time	0	10



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## Type0 radar channel closing transmission time result:

Item	Time (ms)	Limit (ms)	
<b>Closing Transmission Time</b>	0	60	





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### 5530 MHz

Type 0 radar channel move time result:

Item	Time (s)	Limit (s)
Channel move time	0	10

Spectrum									
Ref Level Att	10.00 dB 20 d	m iB <b>e SWT</b> i	● RBW .5 s ● VBW	3 MHz 3 MHz	10.0	s			
0 1Pk Max									
0 dBm					М	1[1] 1[1]		-	-34.38 dB 10.00000 s 18.39 dBm 2.23500 s
-10 dBm	M1								
-20 dBm									
-30 dBm	ky tra baja bij								
and a dealer and a second state of the second		en transfer state of season like			in a state of the			the second s	
-60 dBm									
-70 dBm									
-80 dBm									
CF 5.53 GH	z		1	8001	. pts	1	1	1	1.5 s/
	)[				a (	teady		L)0	06.07.2023 10:40:43

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<u>Type0 radar channel closing transmission time result:</u>

Closing Transmission Time	0	60
0.0		
0.0		
0.0		
-10.0		
-200 		
9 40.0		
₹-50.0	a ang kang mang mga kang kang kang kang kang kang kang ka	
-70.0		
-80.0		
-90.0	D0 9.000 10.500 12.000 13.500 15.0 (s)	00
Ibreshold         Image: Constraint of the shold of	000 -46.0 P 5.000 -46.0 Sc	int 'een
Time Per Bins Above Bins (ma) Threshold Be	ate Time Above Threshold tween T1 and T2 (ms)	xit
1.87 454	851.25	
10.0		
0.0		
-10.0		
-20.0		
₹.50.0 1940-000 1940-000 1940-000 1940-000 1940-0000 1940-0000		
-60.0		
-80.0		
-90.0 0.000 0.500 1.000 1.500 2.0	00 2.500 3.000 3.500 4.00	0
Inreshold         Image: T1         2         1           -46.00	276 -46.0 5.000 -46.0	int een
Time Per Bins Above Aggreg Bin (ms) Threshold Be	ate Time Above Threshold tween T1 and T2 (ms)	xit

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# 8 Non-Occupancy Period

### 8.1 Test Procedure

Measure the EUT for more than 30 minutes following the channel close/move time to very that the EUT does not resume any transmissions on this channel. Provide one plot to demonstrate no transmission on the channel for the non-occupancy period (30 minutes observation time)

#### 8.2 Test Result

Frequency(MHz)	Bandwidth (MHz)	Spectrum Analyzer Display
5290	80	No transmission within 30 minutes
5530	80	No transmission within 30 minutes

Please refer to the following plots.



#### 5290 MHz

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#### 5530 MHz