	TEST REPOR	Т				
FCC ID	2AC23-DCT2B					
Test Report No:	TCT220105E051					
Date of issue:	Feb. 15, 2022					
Testing laboratory :	SHENZHEN TONGCE TESTING LAB					
Testing location/ address:	TCT Testing Industrial Park Fuqi Street, Bao'an District Shenzhen Republic of China	ao 5th Industrial Zone, Fuhai , Guangdong, 518103, People's				
Applicant's name::	Hui Zhou Gaoshengda Technolo	gy Co., LTD				
Address:	NO.75 Zhongkai Development A	rea, Huizhou, Guangdong, China				
Manufacturer's name :	Hui Zhou Gaoshengda Technolo	gy Co., LTD				
Address:	NO.75 Zhongkai Development A	rea, Huizhou, Guangdong, China				
Standard(s) :	47 CFR FCC Part 15.407 RSS-247 Issue 2 KDB905462 D02 UNII DFS Com New Rules v02 KDB 905462 D03 UNII Clients W New Rules v01r02	pliance Procedures				
Test item description :	WIFI+BT Module	(S)				
Trade Mark:	N/A					
Model/Type reference :	DCT2BM2501					
Rating(s):	DC 3.3V					
Date of receipt of test item	Jan. 05, 2022					
Date (s) of performance of test:	Jan. 05, 2022 ~ Feb. 15, 2022					
Tested by (+signature) :	Brews XU	Forents where is				
Check by (+signature) :	Beryl ZHAO	Beryl ZHAO				
Approved by (+signature):	Tomsin	Toms the st				
General disclaimer:						

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## TABLE OF CONTENTS

1. General Product Information	
1.1. EUT description	
1.2. Model(s) list	3
2. Test Result Summary	
3. General Information	
3.1. RF General information	5
3.2. Description of Support Units	5
3.3. Test Instruments List	6
4. Facilities and Accreditations	6
4.1. Facilities	7
4.2. Location	7
4.3. Measurement Uncertainty	7
5. Dynamic Frequency Selection (DFS) Test Result	
5.1. General DFS Information	8
5.2. Radar Test Waveform Calibration	11
5.3. UNII Detection Bandwidth	15
5.4. Channel Availability Check (CAC)	16
5.5. In-service Monitoring	
Appendix A: Photographs of Test Setup	

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## **1. General Product Information**

## 1.1. EUT description

Test item description:	WIFI+BT Module		
Model/Type reference:	DCT2BM2501		
Sample Number:	TCT220105E022-0101		
EUT type:	Client only device, no radar detec	tion Capability	
Operation Frequency:	Band 2A: 5260 MHz~5320 MHz Band 2C: 5500 MHz~5700 MHz		
Channel Separation:	802.11a: 20MHz 802.11n: 20MHz, 40MHz 802.11ac: 20MHz, 40MHz, 80MH	z	
Modulation Technology:	Orthogonal Frequency Division M	ultiplexing(OFDM)	
Antenna Type:	PCB Antenna	$\bigcirc$	
Antenna Gain:	Band 2A: Antenna 0: 3.84dBi, Antenna 1: 3 Band 2C: Antenna 0: 3.83dBi, Antenna 1: 3	.40dBi .97dBi	
TPC Function:	Unsupported	$(\mathcal{C})$	
Rating(s):	DC 3.3V		
Remark:	This device selects the operating the DFS operation frequency.	frequency with rando	mly in

Note: The antenna gain listed in this report is provided by applicant, and the test laboratory is not responsible for this parameter.

## 1.2. Model(s) list

None.



Page 3 of 20



# 2. Test Result Summary

		Conformance Test S	pecifications		
Report Clause	Ref. Std. Clause	Description	Measured	Limit	Result
UNII Detection Bandwidth	7.8.1	DFS: UNII Detection Bandwidth Measurement	N/A	100% of the 99% BW	N/A
Channel Availability Check	7.8.2.1	DFS: Initial Channel Availability Check Time	N/A	CAC ≥ 60 sec	N/A
Channel Availability Check	7.8.2.2	DFS: Radar Burst at the Beginning of the Channel Availability Check Time	N/A	Detection Threshold: -62dBm	N/A
Channel Availability Check	7.8.2.3	DFS: Radar Burst at the End of the Channel Availability Check Time	N/A	Detection Threshold: -62dBm	N/A
In-service Monitoring	7.8.3	DFS: In-Service Monitoring for Channel Move Time (CMT)	CMT ≤ 10sec	CMT ≤ 10sec	Complied
In-service Monitoring	7.8.3	DFS: In-Service Monitoring for Channel Closing Transmission Time (CCTT)	CCTT ≤ 60 ms starting at CMT 200ms	CCTT ≤ 60 ms starting at CMT 200ms	Complied
In-service Monitoring	7.8.3	DFS: In-Service Monitoring for Non-Occupancy Period (NOP)	NOP > 30 min	NOP ≥ 30 min	Complied
Statistical Performance Check	7.8.4	DFS: Statistical Performance Check	Complied	Table 5 - 7 (KDB 905462)	N/A

Page 4 of 20



## 3. General Information

## 3.1. RF General information

	IEEE Std. 802.11	G	Channel Bandwidth (M	ИHz)	
a/n/ac (HT20)			20		0
	n/ac (HT40)		40		
	ac(VHT80)		80		

## 3.2. Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Equipment	Model No.	Serial No.	FCC ID	IC ID	Trade Name
AP	R6300v2	3GM24478A 0282	PY313200227	4054A-13200227	NTEGEAR
PC	Insprion3668	CNOYUJCX	1		DELL

#### Note:

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.

2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.



## 3.3. Test Instruments List

	DFS						
Name	Model No.	Manufacturer	Date of Cal.	Due Date			
vector Signal Generator	N5182A	Agilent	Jul. 19, 2021	Jul. 18, 2022			
Spectrum Analyzer	N9020A	Agilent	Jul. 19, 2021	Jul. 18, 2022			
Combiner Box	AT890-RFB	Ascentest	Jul. 08, 2021	Jul. 07, 2022			

Page 6 of 20



# TCT通测检测

# 4. Facilities and Accreditations

## 4.1. Facilities

The test facility is recognized, certified, or accredited by the following organizations:

• FCC - Registration No.: 645098

SHENZHEN TONGCE TESTING LAB

Designation Number: CN1205

The testing lab has been registered and fully described in a report with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files.

- IC Registration No.: 10668A-1
  - SHENZHEN TONGCE TESTING LAB

CAB identifier: CN0031

The testing lab has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing.

# 4.2. Location

## SHENZHEN TONGCE TESTING LAB

Address: TCT Testing Industrial Park Fuqiao 5th Industrial Zone, Fuhai Street, Bao'an District Shenzhen, Guangdong, 518103, People's Republic of China TEL: +86-755-27673339

# 4.3. Measurement Uncertainty

The reported uncertainty of measurement  $y \pm U$ , where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %.

No.	Item	MU
1	Conducted Emission	± 3.10 dB
2	RF power, conducted	± 0.12 dB
3	Spurious emissions, conducted	± 0.11 dB
4	All emissions, radiated(<1 GHz)	± 4.56 dB
5	All emissions, radiated(1 GHz - 18 GHz)	± 4.22 dB
6	All emissions, radiated(18 GHz- 40 GHz)	± 4.36 dB

1.1. DFS Parameters	
Table D.1:	DFS requirement values
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 periods. See Notes 1 and
U-NII Detection Bandwidth	Minimum 100% of the 99% power bandwidth See No
<ul> <li>For the Short pulse radar Test Signation - For the Frequency Hopping radar Test Signation - For the Long Pulse radar Test Signation - Test Andrew Construction - For the radar transmission.</li> </ul>	est Signal, this instant is the end of the last radar <i>Burst</i> al this instant is the end of the 12 second period defining
<ul> <li>For the Short pulse radar Test Signal</li> <li>For the Frequency Hopping radar Test Signal</li> <li>For the Long Pulse radar Test Signal</li> <li>For the Long Pulse radar Test Signal</li> <li>the radar transmission.</li> <li>Iote 2: The Channel Closing Transmission</li> <li>beginning of the Channel Move Times</li> <li>to facilitate Channel changes (an a 10 second period. The aggregate of between transmissions.</li> <li>Iote 3: During the U-NII Detection Bandwice frequency step the minimum percerwith no data traffic</li> </ul>	est Signal, this instant is the end of the last radar <i>Burst</i> al this instant is the end of the 12 second period defining <i>Time</i> is comprised of 200 milliseconds starting at the e plus any additional intermittent control signals required ggregate of 60 milliseconds) during the remainder of the duration of control signals will not count quiet periods in <i>6th</i> detection test, radar type 1 is used and for each ntage of detection is 90%. Measurements are performed
<ul> <li>For the Short pulse radar Test Signal</li> <li>For the Frequency Hopping radar Test Signal</li> <li>For the Long Pulse radar Test Signather the radar transmission.</li> <li>Iote 2: The <i>Channel Closing Transmission</i> beginning of the <i>Channel Move Tim</i> to facilitate <i>Channel Move Tim</i> to facilitate <i>Channel</i> changes (and 10 second period. The aggregate of between transmissions.</li> <li>Iote 3: During the <i>U-NII Detection Bandwid</i> frequency step the minimum percerwith no data traffic.</li> </ul>	est Signal, this instant is the end of the last radar <i>Burst</i> al this instant is the end of the 12 second period defining <i>Time</i> is comprised of 200 milliseconds starting at the e plus any additional intermittent control signals required ggregate of 60 milliseconds) during the remainder of the duration of control signals will not count quiet periods in <i>ath</i> detection test, radar type 1 is used and for each htage of detection is 90%. Measurements are performed
<ul> <li>For the Short pulse radar Test Signal</li> <li>For the Frequency Hopping radar T generated.</li> <li>For the Long Pulse radar Test Sign the radar transmission.</li> <li>Iote 2: The Channel Closing Transmission beginning of the Channel Move Time to facilitate Channel changes (an a 10 second period. The aggregate of between transmissions.</li> <li>Iote 3: During the U-NII Detection Bandwide frequency step the minimum percerwith no data traffic.</li> </ul>	est Signal, this instant is the end of the last radar <i>Burst</i> al this instant is the end of the 12 second period defining <i>Time</i> is comprised of 200 milliseconds starting at the e plus any additional intermittent control signals required ggregate of 60 milliseconds) during the remainder of the duration of control signals will not count quiet periods in <i>ath</i> detection test, radar type 1 is used and for each intage of detection is 90%. Measurements are performed
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<ul> <li>For the Short pulse radar Test Signal</li> <li>For the Frequency Hopping radar T generated.</li> <li>For the Long Pulse radar Test Sign the radar transmission.</li> <li>Iote 2: The Channel Closing Transmission beginning of the Channel Move Tim to facilitate Channel changes (an a 10 second period. The aggregate of between transmissions.</li> <li>Iote 3: During the U-NII Detection Bandwid frequency step the minimum percer with no data traffic.</li> <li>Table D.2: Interview Maximum Transmit Power</li> <li>≥ 200 milliwatt</li> </ul>	est Signal, this instant is the end of the last radar <i>Burst</i> al this instant is the end of the 12 second period defining <i>Time</i> is comprised of 200 milliseconds starting at the e plus any additional intermittent control signals required ggregate of 60 milliseconds) during the remainder of the duration of control signals will not count quiet periods in <i>ath</i> detection test, radar type 1 is used and for each intage of detection is 90%. Measurements are performed erference threshold values Value (see note) -64 dBm
<ul> <li>For the Short pulse radar Test Signal</li> <li>For the Frequency Hopping radar T generated.</li> <li>For the Long Pulse radar Test Sign the radar transmission.</li> <li>Iote 2: The Channel Closing Transmission beginning of the Channel Move Time to facilitate Channel changes (an a 10 second period. The aggregate of between transmissions.</li> <li>Iote 3: During the U-NII Detection Bandwid frequency step the minimum percerwith no data traffic.</li> <li>Table D.2: Interview Maximum Transmit Power</li> <li>≥ 200 milliwatt</li> </ul>	est Signal, this instant is the end of the last radar <i>Burst</i> al this instant is the end of the 12 second period defining <i>Time</i> is comprised of 200 milliseconds starting at the e plus any additional intermittent control signals required ggregate of 60 milliseconds) during the remainder of the duration of control signals will not count quiet periods in <i>6th</i> detection test, radar type 1 is used and for each intage of detection is 90%. Measurements are performed erference threshold values -64 dBm -62 dBm

## FCT通测检测 5.1.2. Applicability of DFS Requirements Prior to Use of a Channel

		DFS Operational mode		
Requirement	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	
Uniform Spreading	Yes	Not required	Not required	
U-NII Detection Bandwidth	Yes	Not required	Yes	

#### 5.1.3. Applicability of DFS Requirements during Normal Operation

	DFS Operational mode			
Requirement	Master	Client without radar detection	Client with radar detection	
DFS Detection Threshold	Yes	Not required	Yes	
Channel Closing Transmission Time	Yes	Yes	Yes	
Channel Move Time	Yes	G Yes	Yes	
U-NII Detection Bandwidth	Yes	Not required	Yes	

#### 5.1.4. Uniform Spreading

#### Manufacturer Declare the Uniform Spreading

☑ For the 5250-5350 MHz and 5470-5725 MHz bands, the Master device provides, on aggregate, uniform loading of the spectrum across all devices by selecting an operating channel among the available channels using a Gaussian random algorithm.

#### 5.1.5. User Access Restrictions

#### **User Access Restrictions**

DFS controls (hardware or software) related to radar detection are NOT accessible to the user. Manufacturer statement confirming that information regarding the parameters of the detected Radar Waveforms is not available to the end user.

#### 5.1.6. Channel Loading/Data Streaming

IP Based (Load Based) - stream the test file from the Master to the Client

The client device is link with the master device and plays the WAV audio file from master device to client device. Test file download in NTIA website (http://ntiacsd.ntia.doc.gov/dfs/)

The client device is link with the master device and plays the MPEG file (6 1/2 Magic Hours) from master device to client device. Test file download in NTIA website (http://ntiacsd.ntia.doc.gov/dfs/)

Alternative streaming e.g., FTP with about 17 to 20% loading and submit proposal to FCC.



# TCT通测检测 5.2. Radar Test Waveform Calibration

#### 5.2.1. Short Pulse Radar Test Waveforms

	Table 5 – Short Pulse Radar Test Waveforms							
Radar	Pulse Width	PRI	Number of Pulses	Minimum	Minimum			
Туре	(µsec)	(µsec)		Percentage of	Number of			
				Successful	Trials			
				Detection				
0	1	1428	18	See Note 1	See Note 1			
1	1	Test A: 15 unique PRI values randomly selected from the list of 23 PRI values in Table 5a 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 selected in Test A	$\frac{\text{Roundup}\left\{ \begin{pmatrix} \frac{1}{360} \end{pmatrix}, \\ \begin{pmatrix} \frac{19 \cdot 10^6}{\text{PRI}_{\mu \text{sec}}} \end{pmatrix} \right\}}{\left( \frac{19 \cdot 10^6}{\text{PRI}_{\mu \text{sec}}} \right)}$	60%	30			
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 (I	Radar Types 1-	4)		80%	120			

**Note 1:** Short Pulse Radar Type 0 should be used for the detection bandwidth test, channel 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. For short pulse radar type 1, the same waveform is used a minimum of 30 times. 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. The aggregate is the average of the percentage of successful detections of short pulse radar types 1-4.

Page 11 of 20

# 通测检测 TESTING CENTRE TECHNOLOGY 5.2.2. Long Pulse Radar Test Waveform

Radar Type	Pulse Width (µsec)	ChirpWidth (MHz)	PRI (µsec)	Number of Pulses per <i>Burst</i>	Number of <i>Burst</i> s	Minimum Percentage of Successful Detection	Minimum Trials
5	50-100	5-20	1000-2000	1-3	8-20	80%	30
				(			

Each waveform is defined as follows:

- The transmission period for the Long Pulse Radar test signal is 12 seconds.
- There are a total of 8 to 20 Bursts in the 12 second period, with the number of Bursts being randomly chosen. This number is Burst Count.
- Each Burst consists of 1 to 3 pulses, with the number of pulses being randomly chosen. Each Burst within the 12 second sequence may have a different number of pulses.
- The pulse width is between 50 and 100 microseconds, with the pulse width being randomly chosen. Each pulse within a Burst will have the same pulse width. Pulses in different Bursts may have different pulse widths.
- Each pulse has a linear FM chirp between 5 and 20 MHz, with the chirp width being randomly chosen. Each pulse within a Burst will have the same chirp width. Pulses in different Bursts may have different chirp widths. The chirp is centered on the pulse. For example, with a radar frequency of 5300 MHz and a 20 MHz chirped signal, the chirp starts at 5290 MHz and ends at 5310 MHz.
- If more than one pulse is present in a Burst, the time between the pulses will be between 1000 and 2000 microseconds, with the time being randomly chosen. If three pulses are present in a Burst, the time between the first and second pulses is chosen independently of the time between the second and third pulses.
- The 12 second transmission period is divided into even intervals. The number of intervals is equal to Burst Count. Each interval is of length (12,000,000 / Burst Count) microseconds. Each interval contains one Burst. The start time for the Burst, relative to the beginning of the interval, is between 1 and [(12,000,000 / Burst\_Count) – (Total Burst Length) + (One Random PRI Interval)] microseconds, with the start time being randomly chosen. The step interval for the start time is 1 microsecond. The start time for each Burst is chosen independently.

5.2.3. Fr	requency	у норріп	ig Radar	lest wave	rorm		
Radar Type	Pulse Width (µsec)	PRI (µsec)	Pulses per Hop	Hopping Rate (kHz)	Hopping Sequence Length (ms)	Minimum Percentage of Successful Detection	Minimum Trials
6	1	333	9	0.333	300	70%	30

## Hanning Daday Test Mayofann

The FCC Type 6 waveform uses a static waveform with 100 bursts in the instruments ARB. In addition, the RF list mode is operated with a list containing 100 frequencies from a randomly generated list and it had be ensured that at least one of the random frequencies falls into the UNII Detection Bandwidth of the DUT. Each burst from the waveform file initiates a trigger pulse at the beginning that switches the RF list from one item to the next one.

#### Report No.: TCT220105E051



#### 5.2.4. DFS Threshold Level

DFS Threshold Level					
DEC Three hald laurely 60 dBee	⊠at the antenna connector				
DFS Threshold level: -62 dBm	□ in front of the antenna				

The Interference **Radar Detection Threshold Level** is -62 dBm. That had been taken into account the output power range and antenna gain.

#### 5.2.5. Test Set up







### 5.3. UNII Detection Bandwidth

Report No.: TCT220105E051

#### 5.3.1. UNII Detection Bandwidth Limit

Channel Bandwidth (MHz)	99% Power Bandwidth (MHz)	UNII Detection Bandwidth (MHz)	
20	N/A	N/A	
40	N/A	N/A	
80	(C) N/A (C)	N/A	

UNII Detection Bandwidth is minimum 100% of the 99% power bandwidth. A single radar Burst is generated for a minimum of 10 trials, and the response of the UUT is noted. The UUT must detect the Radar Waveform 90% or more of the time.

#### 5.3.2. Measuring Instruments

Refer a test equipment and calibration data table in this test report.

#### 5.3.3. Test Procedures

#### **Test Method**

☑Refer as KDB905462 D02 UNII DFS Compliance Procedures New Rules v02, clause 7.8.1 for UNII Detection Bandwidth test. During the U-NII Detection Bandwidth detection test, radar type 1 is used and for each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic. The EUT is set up as a standalone device (no associated Client and no traffic). The radar frequency is increased in 1 MHz steps, repeating the above test sequence, until the detection rate falls below 90%. The highest frequency at which detection is greater than or equal to 90% is denoted as FH. The radar frequency is decreased in 1 MHz steps, repeating the above test sequence, until the detection as FH. The radar frequency is decreased in 1 MHz steps, repeating the above test sequence, until the detection is greater than or equal to 90%. The lowest frequency at which detection is greater than or equal to 90%. The lowest frequency at which detection is greater than or equal to 90%. The lowest frequency at which detection is greater than or equal to 90%. The lowest frequency at which detection is greater than or equal to 90% is denoted as FL. UNII Detection Bandwidth = FH -FL

#### **Test result: Not required**

# 「CT通测检测 5.4. Channel Availability Check (CAC)

#### 5.4.1. Channel Availability Check Limit

#### **Channel Availability Check Limit**

The EUT shall perform a Channel Availability Check to ensure that there is no radar operating on the channel. After power-up sequence, receive at least 1 minute (60 sec) on the intended operating frequency.

#### 5.4.2. Measuring Instruments

Refer a test equipment and calibration data table in this test report

#### 5.4.3. Test Procedures

# **Test Method** Refer as KDB905462 D02 UNII DFS Compliance Procedures New Rules v02, clause 7.8.2.1 for Initial Channel Availability Check Time. The EUT does not emit beacon, control, or data signals on the test Channel until the power-up sequence has been completed and the UNII device checks for Radar Waveforms for one minute on the test Channel. This test does not use any Radar Waveforms. Refer as FCC 06-96 Appendix, clause 7.8.2.2 for Radar Burst at the Beginning of the Channel Availability Check Time. To verify successful radar detection on the selected Channel during a period equal to the Beginning of the Channel Availability Check Time. Refer as FCC 06-96 Appendix, clause 7.8.2.3 for Radar Burst at the End of the Channel Availability Check Time. To verify successful radar detection on the selected Channel during a period equal to the End of the Channel Availability Check Time. Test result: Not required

Page 16 of 20



#### 5.5. In-service Monitoring

#### 5.5.1. In-service Monitoring Limit

In-service Monitoring Limit					
Channel Move Time	10 sec 😧				
Channel Closing Transmission Time	200 ms + an aggregate of 60 ms over remaining 10 sec periods.				
Non-occupancy period	Minimum 30 minutes				

#### 5.5.2. Measuring Instruments

Refer a test equipment and calibration data table in this test report

#### 5.5.3. Test Procedures

#### Test Method

☑Refer as KDB905462 D02 UNII DFS Compliance Procedures New Rules v02, clause 7.8.3 verified during In-Service Monitoring; Channel Closing Transmission Time, Channel Move Time. Client Device will associate with the EUT. Observe the transmissions of the EUT at the end of the radar Burst on the Operating Channel for duration greater than 10 seconds. Measure and record the transmissions from the EUT during the observation time (Channel Move Time). Compare the Channel Move Time and Channel Closing Transmission Time limits.

☑Refer as KDB905462 D02 UNII DFS Compliance Procedures New Rules v02, clause 8.3 verified during In-Service Monitoring; Channel Closing Transmission Time, Channel Move Time. One 10 sec plot needs to be reported for the Short Pulse Radar Types 1-4 and one for the Long Pulse Radar Type in a 22 sec plot. And zoom-in a 600 ms plot verified channel closing time for the aggregate transmission time starting from 200ms after the end of the radar signal to the completion of the channel move.

Refer as KDB905462 D02 UNII DFS Compliance Procedures New Rules v02, clause 7.8.3 verified during In-Service Monitoring; Non-Occupancy Period. Client Device will associate with the EUT. Observe the transmissions of the EUT at the end of the radar Burst on the Operating Channel for duration greater than 10 seconds. Measure and record the transmissions from the EUT during the observation time (Non-Occupancy Period). Compare the Non-Occupancy Period limits.



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