



Report No.: FZ461410



# DFS TEST REPORT

FCC ID

: MSQ-USBBE7T00

Equipment

: Tri-band BE6500 WiFi 7 Nano USB Adapter

**Brand Name** 

: ASUS

Model Name

: USB-BE92 Nano

**Applicant** 

: ASUSTeK COMPUTER INC.

1F., No. 15, Lide Rd., Beitou, Taipei City 112, Taiwan

Standard

: 47 CFR FCC Part 15.407

The product was received on Aug. 12, 2024, and testing was started from Aug. 19, 2024 and completed on Sep. 06, 2024. We, Sporton International Inc. Hsinchu Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in FCC KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02 and shown compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. Hsinchu Laboratory, the test report shall not be reproduced except in full.

Approved by: Sam Chen

Sporton International Inc. Hsinchu Laboratory

No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County 302010, Taiwan (R.O.C.)

TEL: 886-3-656-9065 FAX: 886-3-656-9085

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Report Version

: 01

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Appendix A. Test Photos

Photographs of EUT v01

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# History of this test report

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Report No.	Version	Description	Issued Date
FZ461410	01	Initial issue of report	Sep. 11, 2024

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## **Summary of Test Result**

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Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.3	FCC KDB 905462 7.8.3	DFS: In-Service Monitoring for Channel Move Time (CMT)	PASS	-
3.3	FCC KDB 905462 7.8.3	DFS: In-Service Monitoring for Channel Closing Transmission Time (CCTT)	PASS	-
3.3	FCC KDB 905462 7.8.3	DFS: In-Service Monitoring for Non-Occupancy Period (NOP)	PASS	-

Note: Since the product is client without radar detection function, only Channel Move Time, Channel Closing Transmission Time and Non-Occupancy Period are required to perform.

#### **Conformity Assessment Condition:**

- 1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacturer who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
- 2. The measurement uncertainty please refer to each test result in the chapter "Measurement Uncertainty".

#### Disclaimer:

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.

Reviewed by: Sam Chen Report Producer: Cathy Chiu

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## 1 General Description

## 1.1 Information

### 1.1.1 RF General Information

Specification Items	Descript	tion	
Frequency Range	5250 MHz – 5350 MHz 5470 MHz – 5725 MHz		
Power Type	From host system		
Channel Bandwidth	20/40/80/160 MHz operating channel I	bandwidth	
	☐ Master		
Operating Mode	Client with radar detection		
Communication Mode		☐ Frame Based	
TPC Function	With TPC     ■ Mith TPC	☐ Without TPC	
Weather Band (5600~5650MHz)	☑ With 5600~5650MHz	☐ Without 5600~5650MHz	
Zero-Wait Function	Support		
Power-on cycle	NA (No Channel Availability Check Function)		
Firmware Number	5002.24.117.1		

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- 11a, HT20 and HT40 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.
- VHT20, VHT40, VHT80 and VHT160 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM modulation.
- HEW20, HEW40, HEW80 and HEW160 use a combination of OFDMA-BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM modulation.
- EHT20, EHT40, EHT80 and EHT160 use a combination of OFDMA-BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM, 4096QAM modulation.
- EUT employ a TPC mechanism and TPC have the capability to operate at least 6 dB below highest RF output power.

Note: The above information was declared by manufacturer.

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#### **TPC Power Result**

Mode	Min Power	Max Power	Min EIRP	Max EIRP
	(dBm)	(dBm)	(dBm)	(dBm)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-
5.25-5.35GHz	7.39	13.39	9.99	15.99
5.47-5.725GHz	7.33	13.33	9.93	15.93
802.11be EHT20_Nss1,(MCS0)_2TX	-	-	-	-
5.25-5.35GHz	7.32	13.32	9.92	15.92
5.47-5.725GHz	7.36	13.36	9.96	15.96
802.11be EHT40_Nss1,(MCS0)_2TX	-	-	-	-
5.25-5.35GHz	7.29	13.29	9.89	15.89
5.47-5.725GHz	7.30	13.30	9.90	15.90
802.11be EHT80_Nss1,(MCS0)_2TX	-	-	-	-
5.25-5.35GHz	7.25	13.25	9.85	15.85
5.47-5.725GHz	7.28	13.28	9.88	15.88
802.11be EHT160_Nss1,(MCS0)_2TX	-	-	-	-
5.25-5.35GHz	3.39	9.39	5.99	11.99
5.47-5.725GHz	7.16	13.16	9.76	15.76

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Note: The manufacturer declared that TPC is applied to this equipment. The test result of TPC is equal to RF output power minus 6dBm which is recorded as a reference for the manufacturer.

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### 1.1.2 Antenna Information

Ant.	Port	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	1	LYNwave	ALX24M-122AA0-00	PIFA Antenna	N/A	Note1
2	2	LYNwave	ALX24M-122AA0-00	PIFA Antenna	N/A	Note

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#### Note1:

A 4	Dont	Antenna Gain (dBi)				
Ant.	Port	WLAN 2.4GHz	WLAN 5GHz	WLAN 6GHz		
1	1	2.4	2.6	2.8		
2	2	2.0	2.3	2.7		

Note2: The above information was declared by manufacturer.

Note3: Directional gain information

Type	Maximum Output Power	Power Spectral Density	
Non-BF	Directional gain = Max.gain + array gain. For power measurements on IEEE 802.11 devices Array Gain = 0 dB (i.e., no array gain) for N ANT ≤ 4	Directional Gain = $10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{we}} \left( \sum_{k=1}^{N_{we}} \mathbf{s}_{j,k} \right)^{2}}{N_{AMT}} \right]$	
BF	Directional Gain = $10 \cdot \log \frac{\sum_{j=1}^{N_{\infty}} \left\{\sum_{k=1}^{N_{abs}} \mathcal{Z}_{j,k}\right\}^{2}}{N_{aNf}}$	Directional Gain = $10 \cdot \log \frac{\sum_{j=1}^{N_{act}} \left\{\sum_{k=1}^{N_{act}} g_{j,k}\right\}^{2}}{N_{ANT}}$	

Ex.

Directional Gain (NSS1) formula : 
$$Directional Gain = 10 \cdot log \frac{\sum_{j=1}^{N_{ab}} {N_{abs} \choose k-1} \epsilon_{j,k}}{N_{abs}}^{\frac{1}{2}}$$

```
\begin{split} & \text{NSS1}(\text{g1,1}) = 10^{\text{G1/20}} \text{ ; NSS1}(\text{g1,2}) = 10^{\text{G2/20}} \text{ ; NSS1}(\text{g1,2}) = 10^{\text{G3/20}} \text{; NSS1}(\text{g1,2}) = 10^{\text{G4/20}} \\ & \text{gj,k} = & (\text{Nss1}(\text{g1,1}) + \text{Nss1}(\text{g1,2}) + \text{Nss1}(\text{g1,3}) + \text{Nss1}(\text{g1,4}) )^2 \\ & \text{DG} = 10 \log[(\text{Nss1}(\text{g1,1}) + \text{Nss1}(\text{g1,2}) + \text{Nss1}(\text{g1,3}) + \text{Nss1}(\text{g1,4}))^2 \ / \ N_{\text{ANT}}] \Rightarrow 10 \\ & \log[(10^{\text{G1/20}} + 10^{\text{G2/20}} + 10^{\text{G3/20}} + 10^{\text{G4/20}})^2 \ / \ N_{\text{ANT}}] \end{split} Where ;
```

2.4G G1= 2.40 dBi ;G2= 2.00 dBi ;

5G UNII-1 G1 = 2.60 dBi; G2 = 2.30 dBi;

5G UNII-2A G1 = 2.60 dBi; G2 = 2.30 dBi;

5G UNII-2C G1 = 2.60 dBi; G2 = 2.30 dBi;

5G UNII-3 G1 = 2.60 dBi; G2 = 2.30 dBi;

6G UNII-5 G1 = 2.80 dBi; G2 = 2.70 dBi;

6G UNII-6 G1 = 2.80 dBi; G2 = 2.70 dBi;

6G UNII-7 G1 = 2.80 dBi; G2 = 2.70 dBi;

6G UNII-8 G1 = 2.80 dBi; G2 = 2.70 dBi;

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2.4G DG = 5.21 dBi

5G UNII-1 DG = 5.46 dBi

5G UNII-2A DG = 5.46 dBi

5G UNII-2C DG = 5.46 dBi

5G UNII-3 DG = 5.46 dBi

6G UNII-5 DG = 5.76 dBi

6G UNII-6 DG = 5.76 dBi

6G UNII-7 DG = 5.76 dBi

6G UNII-8 DG = 5.76 dBi

#### For 2.4GHz function:

### For IEEE 802.11b/g/n/VHT/ax/be (2TX/2RX):

Port 1 and Port 2 can be used as transmitting/receiving antenna.

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Port 1 and Port 2 could transmit/receive simultaneously.

#### For 5GHz function:

### For IEEE 802.11a/n/ac/ax/be (2TX/2RX):

Port 1 and Port 2 can be used as transmitting/receiving antenna.

Port 1 and Port 2 could transmit/receive simultaneously.

#### For 6GHz function:

## For IEEE 802.11a/ax/be (2TX/2RX):

Port 1 and Port 2 can be used as transmitting/receiving antenna.

Port 1 and Port 2 could transmit/receive simultaneously.

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## 1.1.3 DFS Band Carrier Frequencies

There are four bandwidth systems.

For 20MHz bandwidth systems, use Channel 52, 56, 60, 64, 100, 104, 108, 112, 116, 120, 124, 128, 132, 136, 140, 144.

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For 40MHz bandwidth systems, use Channel 54, 62, 102, 110, 118, 126, 134, 142.

For 80MHz bandwidth systems, use Channel 58, 106, 122, 138.

For 160MHz bandwidth systems, use Channel 50, 114

Frequency Band	Channel No.	Frequency	Channel No.	Frequency
	50	5250 MHz	58	5290 MHz
5250~5350 MHz	52	5260 MHz	60	5300 MHz
Band 2	54	5270 MHz	62	5310 MHz
	56	5280 MHz	64	5320 MHz
	100	5500 MHz	122	5610 MHz
	102	5510 MHz	124	5620 MHz
	104	5520 MHz	126	5630 MHz
	106	5530 MHz	128	5640 MHz
5470 5705 MIL	108	5540 MHz	132	5660 MHz
5470~5725 MHz	110	5550 MHz	134	5670 MHz
Band 3	112	5560 MHz	136	5680 MHz
	114	5570 MHz	138	5690 MHz
	116	5580 MHz	140	5700 MHz
	118	5590 MHz	142	5710 MHz
	120	5600 MHz	144	5720 MHz

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## 1.2 Accessories

N/A

## 1.3 Support Equipment

Support Equipment								
No.	No. Equipment Brand Name Model Name FCC ID							
Α	Notebook	DELL	E4300	N/A				
В	Notebook	DELL	E4300	N/A				
С	WLAN AP	ASUS	GT-BE19000	N/A				

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## 1.4 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- 47 CFR FCC Part 15.407
- FCC KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02

## 1.5 Testing Location Information

-								
	Testing Location Information							
Test Lab. : Sportor	Test Lab. : Sporton International Inc. Hsinchu Laboratory							
Hsinchu	ADD: No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County 302010, Taiwan (R.O.C.)							
(TAF: 3787)	TEL: 886-3-656-9065 FAX: 886-3-656-9085							
	Test site Designation No. TW3787 with FCC.							
	Conformity Assessment Body Identifier (CABID) TW3787 with ISED							

Test Condition	Test Site No.	Test Engineer	Test Environment (°C / %)	Test Date
DFS	DF02-CB	Nyle Chang	23.5~24.7 / 59~63	Aug. 19, 2024~ Sep. 06, 2024

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# 2 Test Configuration of EUT

## 2.1 Test Channel Frequencies Configuration

Test Channel Frequencies Configuration			
IEEE Std.	Test Channel Freq. (MHz)		
802.11be (EHT160)	5250 MHz		

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## 2.2 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests					
Tests Item Dynamic Frequency Selection (DFS)					
Test Condition	Conducted measurement at transmit chains The EUT shall be configured to operate at the highest transmitter output power setting. If more than one antenna assembly is intended for this power setting, the gain of the antenna assembly with the lowest gain shall be used.				
Modulation Mode	802.11be (EHT160)				

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# 3 Dynamic Frequency Selection (DFS) Test Result

## 3.1 General DFS Information

#### 3.1.1 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 (Note 1).				
Channel Closing Transmission Time	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second periods. (Notes 1 and 2).				
U-NII Detection Bandwidth	Minimum 100% of the 99% power bandwidth (Note 3).				

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- 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 plus any additional intermittent control signals required to facilitate Channel changes (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 is used and for each frequency step the minimum percentage of detection is 90%. Measurements are performed with no data traffic.

Table D.2: Interference threshold values					
Maximum Transmit Power	Value (see note)				
EIRP≥ 200 mW	-64 dBm				
EIRP < 200 mW and PSD < 10dBm/MHz	-62 dBm				
EIRP < 200 mW and PSD >= 10dBm/MHz	-64 dBm				

- 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 662911D01.

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## 3.1.2 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		
U-NII Detection Bandwidth	Yes	Not required	Yes		

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## 3.1.3 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	Yes	Yes		
U-NII Detection Bandwidth	Yes	Not required	Yes		

Additional requirements for devices with multiple bandwidth modes	Master Device or Client with Radar Detection	Client Without Radar Detection	
U-NII Detection Bandwidth and Statistical Performance Check	All BW modes must be tested	Not required	
Channel Move Time and Channel Closing Transmission Time	Test using widest BW mode available	Test using the widest BW mode available for the link	
All other tests	Any single BW mode	Not required	

**Note:** Frequencies selected for statistical performance 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 channels and the channel center frequency.

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## 3.1.4 Channel Loading/Data Streaming

	The data file (MPEG-4) has been transmitting in a streaming mode.
$\boxtimes$	Software to ping the client is permitted to simulate data transfer with random ping intervals.
$\boxtimes$	Minimum channel loading of approximately 17%.
	Unicast protocol has been used.

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### 3.2 Radar Test Waveform Calibration

#### 3.2.1 Short Pulse Radar Test Waveforms

Radar Type	Pulse Width (µsec)	PRI (µsec)	Number of Pulses	Minimum Percentage of Successful Detection	Minimum Trials
0	1	1428	18	See Note 1	See Note 1
1A	1	15 unique PRI in KDB 905462 D02 Table 5a	((1) (19×10 <sup>6</sup> ))	60%	15
1B	1	15 unique PRI within 518-3066, Excluding 1A PRI	$Roundup \left\{ \left( \frac{1}{360} \right) \times \left( \frac{19 \times 10^6}{PRI} \right) \right\}$	60%	15
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
Aggrega	ate (Radar Type	80%	120		

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**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 1 through 4. If more than 30 waveforms are used for short pulse radar types 1 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.

### 3.2.2 Long Pulse Radar Test Waveform

Radar Type	Pulse Width (µsec)	Chirp Width (MHz)	PRI (µsec)	Number of Pulses per <i>Burst</i>	Number of Bursts	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 transmission period will have the same chirp width. 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

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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.

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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.

### 3.2.3 Frequency Hopping Radar Test Waveform

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

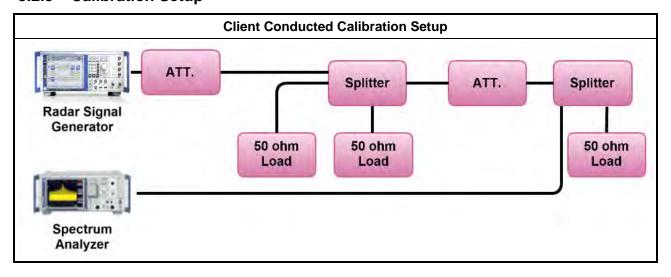
For the Frequency Hopping Radar Type, the same Burst parameters are used for each waveform. The hopping sequence is different for each waveform and a 100-length segment is selected from the hopping sequence defined by the following algorithm:

The first frequency in a hopping sequence is selected randomly from the group of 475 integer frequencies from 5250 – 5724 MHz. Next, the frequency that was just chosen is removed from the group and a frequency is randomly selected from the remaining 474 frequencies in the group.

#### 3.2.4 DFS Threshold Level

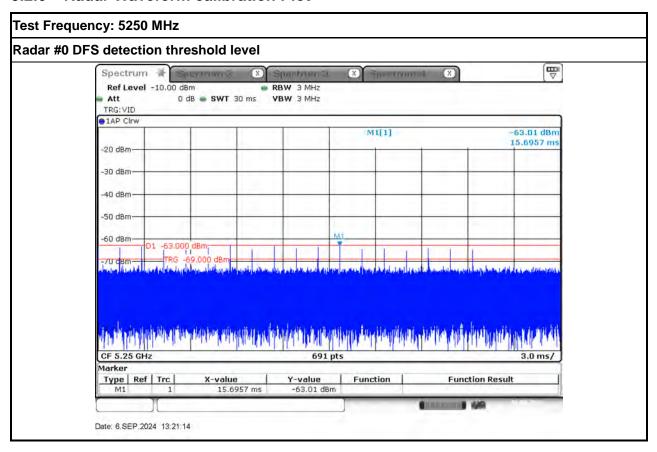
DFS Threshold Level						
DFS Threshold level:	-63	dBm		at the antenna connector		
				in front of the antenna		
The Interference Rada taken into account the				<b>bld Level</b> is $-64  dBm + 0  [dBi] + 1  dB = -63  dBm$ . That had been and antenna gain.		

### 3.2.5 Calibration Setup



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## 3.2.6 Radar Waveform calibration Plot



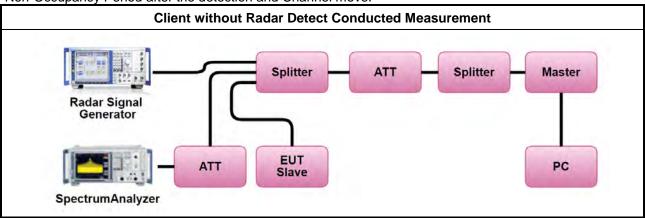
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### 3.2.7 Test Setup

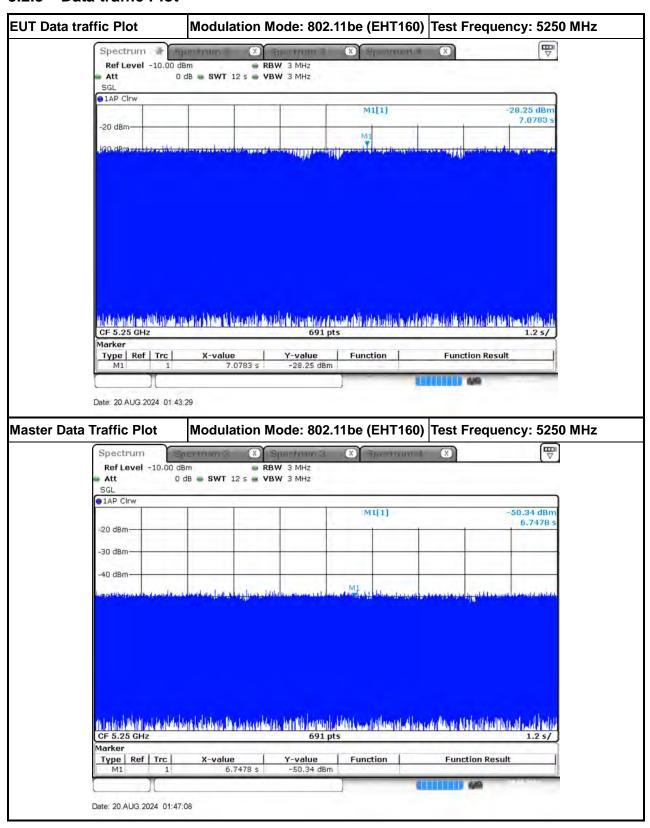
A spectrum analyzer is used as a monitor to verify that the EUT has vacated the Channel within the (Channel Closing Transmission Time and Channel Move Time, and does not transmit on a Channel during the Non-Occupancy Period after the detection and Channel move.

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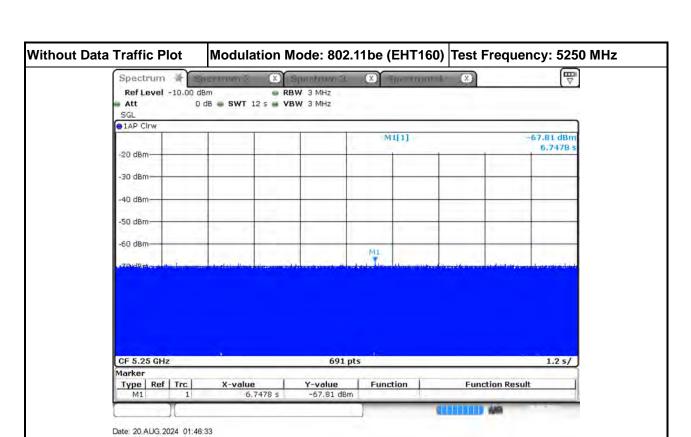
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### 3.2.8 Data traffic Plot



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## 3.3 In-service Monitoring

### 3.3.1 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		

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## 3.3.2 Measuring Instruments

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

#### 3.3.3 Test Procedures

#### **Test Method**

- 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.
- ✓ Verified during In-Service Monitoring; Channel Closing Transmission Time, Channel Move Time. One 12sec plot needs to be reported for the Short Pulse Radar Types 0. And zoom-in a 60 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.
- ✓ 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.

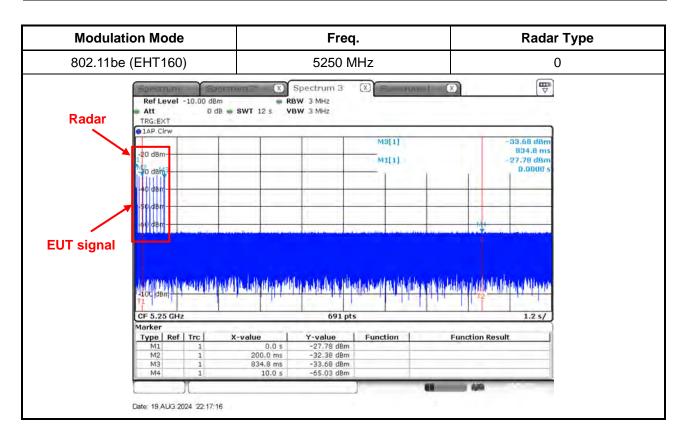
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### 3.3.4 Test Result of Channel Move Time

Modulation Mode: 802.11be (EHT160)

Doromotor	Test Result	Limit	
Parameter	Туре 0		
Test Channel (MHz)	5250 MHz	-	
Channel Move Time (sec.)	0.834	< 10s	

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## 3.3.5 Test Result of Channel Closing Transmission Time

Modulation Mode: 802.11be (EHT160)

Doromator	Test Result	Limit	
Parameter	Туре 0		
Test Channel (MHz)	5250 MHz	-	
Channel Closing Transmission Time (ms) (Note)	26.086	< 60ms	

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Note: The Channel Closing Transmission Time is comprised of 200 milliseconds starting at 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 seconds period. The aggregate duration of control signals will not count quiet periods in between transmissions.

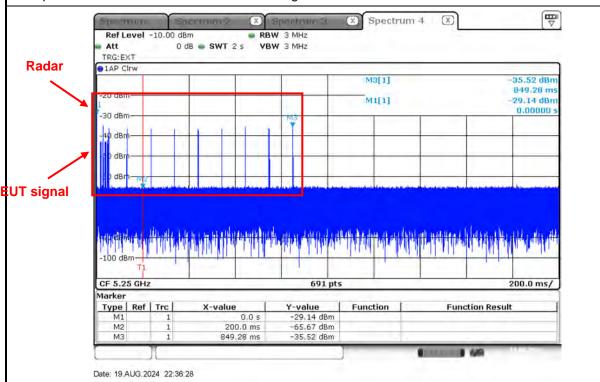
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 Modulation Mode
 Freq.
 Radar Type

 802.11be (EHT160)
 5250 MHz
 0

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Channel Closing Transmission Time is comprised of 200 ms starting at the beginning of the Channel Move Time plus 60ms additional intermittent control signals



Dwell is the dwell time per spectrum analyzer sampling bin.

S is the sweep time

B is the number of spectrum analyzer sampling bins

C is the intermittent control signals of Channel Closing Transmission Time

N is the number of spectrum analyzer sampling bins (intermittent control signals) showing a U-NII transmission

Dwell (2.899 ms)= S (2000 ms) / B (690)

C (26.086 ms) = N (9) X Dwell (2.899 ms)

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## 3.3.6 Test Result of Non-Occupancy Period

Modulation Mode: 802.11be (EHT160)

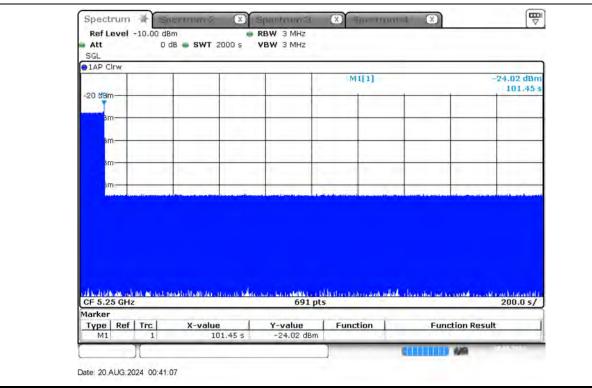
Devenuetes	Test Result	Limit	
Parameter	Type 0		
Test Channel (MHz)	5250 MHz	-	
Non-Occupancy Period (min.)	≧30	≥ 30 min	

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Modulation Mode	Freq.	
802.11be (EHT160)	5250 MHz	

## **Non-Occupancy Period**

During the 30 minutes observation time, UUT did not make any transmissions on a channel after a radar signal was detected on that channel by either the Channel Availability Check or the In-Service Monitoring.



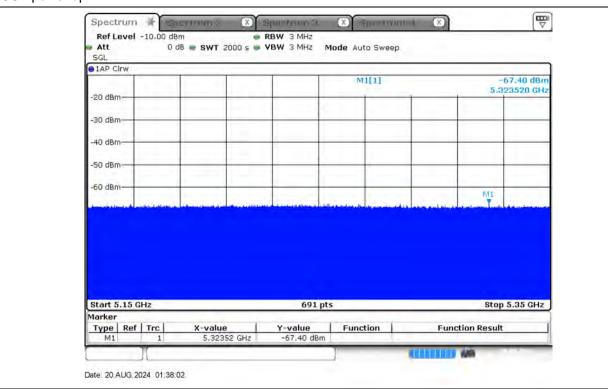
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### Non-associated test

Master was off.

During the 30 minutes observation time, The UUT did not make any transmissions in the DFS band after UUT power up.

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# 4 Test Equipment and Calibration Data

Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101025	9kHz ~ 40GHz	Nov. 07, 2023	Nov. 06, 2024	Conducted (DF02-CB)
Vector Signal Generator	R&S	SMM100A	101894	100kHz ~ 7.5GHz	Oct. 24, 2023	Oct. 23, 2024	Conducted (DF02-CB)
RF Power Divider	STI	2 Way	DV-8G -05	1 ~ 8GHz	Oct. 03, 2023	Oct. 02, 2024	Conducted (DF02-CB)
RF Power Divider	STI	2 Way	DV-8G -06	1 ~ 8GHz	Oct. 03, 2023	Oct. 02, 2024	Conducted (DF02-CB)
RF Power Divider	STI	2 Way	DV-8G -07	1 ~ 8GHz	Oct. 03, 2023	Oct. 02, 2024	Conducted (DF02-CB)
RF Power Divider	STI	2 Way	DV-8G -08	1 ~ 8GHz	Oct. 03, 2023	Oct. 02, 2024	Conducted (DF02-CB)
RF Power Divider	Woken	4 Way	DF02-DV02	1 ~ 6GHz	Oct. 03, 2023	Oct. 02, 2024	Conducted (DF02-CB)
RF Power Divider	Woken	4 Way	DF02-DV04	1 ~ 6GHz	Oct. 03, 2023	Oct. 02, 2024	Conducted (DF02-CB)
RF Power Divider	Woken	4 Way	DF02-DV05	1 ~ 6GHz	Oct. 03, 2023	Oct. 02, 2024	Conducted (DF02-CB)
RF Cable-high	Woken	RG402	Cable-60	1~18 GHz	Oct. 02, 2023	Oct. 01, 2024	Conducted (DF02-CB)
RF Cable-high	Woken	RG402	Cable-61	1~18 GHz	Oct. 02, 2023	Oct. 01, 2024	Conducted (DF02-CB)
RF Cable-high	Woken	RG402	Cable-63	1~18 GHz	Oct. 02, 2023	Oct. 01, 2024	Conducted (DF02-CB)
Test Software	SPORTON	DFS Test	V1.01	5.25GHz-5.725GHz	N.C.R.	N.C.R.	Conducted (DF02-CB)

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Note: Calibration Interval of instruments listed above is one year.

NCR means Non-Calibration required.

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# 5 Measurement Uncertainty

Test Items	Uncertainty	Remark
Conducted Emission	3.0 dB	Confidence levels of 95%

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