

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT



EUT Description Notebook Computer
Applicant: Acer Incorporated
8F., No. 88, Sec. 1, Xintai 5th Rd., Xizhi, New Taipei City
22181, Taiwan (R.O.C)
Manufacturer: LENGDA(XIAMEN) COMPANY LIMITED
Bld.9L-1, No.14 Rd. Haijing E, Xiamen Area of China(Fujian)
Free Trade Zone(Duty Free Port of Haicang)
Brand Name: acer
Model No.: N25LD3
Report Number: TERF2512004142E2
FCC ID HLZN25LD3
Date of EUT Received: August 12, 2025
Date of Test: December 8, 2025~December 26, 2025
Issue Date: January 9, 2026

Approved By

Arno Hsieh

Arno Hsieh

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Central RF Lab The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 and the energy emitted by the sample EUT comply with FCC rule part §15.407.

The results of this report relate only to the sample identified in this report.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
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Revision History

Report Number	Revision	Description	Issue Date	Revised By	Remark
TERF2512004142E2	00	Original	January 9, 2026	Susan Lin	

Note:

- 1、The remark "*" indicates modification of the report upon requests from certification body.

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1 GENERAL INFORMATION

1.1 Product Description

EUT Description:	Notebook Computer
Brand Name:	<i>acer</i>
Model No.:	N25LD3
Hardware Version:	N/A
Firmware Version:	mp_v2.0.29
EUT Series No.:	10600003007982A125808A0385
Power Supply:	11.55 Vdc from Rechargeable Li-ion Battery 5 / 9 / 12 / 15 / 20 Vdc from AC/DC Adapter
Test Software (Name/Version):	Microsoft Windows [Version 10.0.22631.6199]

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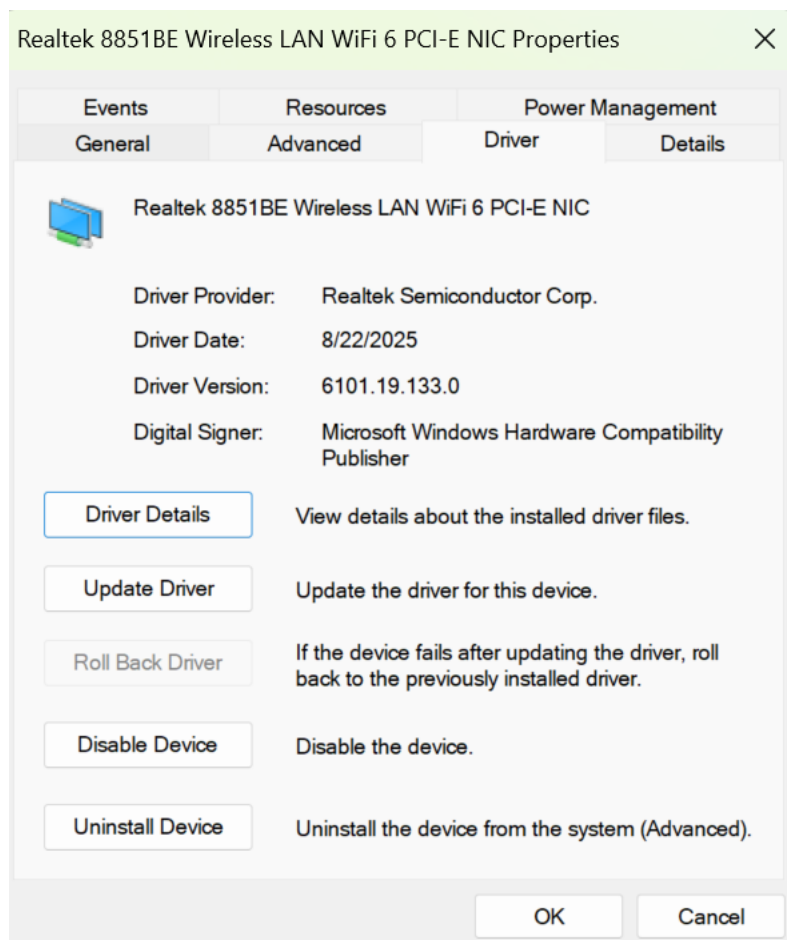
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1.2 DFS Firmware version:



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1.3 Modulation & Data Rate

Wi-Fi	Frequency Range	Channels
802.11a20 802.11n_HT20 802.11ac_VHT20 802.11ax_HE20	5180~5240	4
	5260~5320	4
	5500~5700	11
	5745~5825	5
802.11n_HT40 802.11ac_VHT40 802.11ax_HE40	5190~5230	2
	5270~5310	2
	5510~5670	5
	5755~5795	2
802.11ac_VHT80 802.11ax_HE80	5210	1
	5290	1
	5530	1
	5775	1

Modulation type	802.11a	64QAM, 16QAM, QPSK, BPSK for OFDM
	802.11n	64QAM, 16QAM, QPSK, BPSK for OFDM
	802.11ac	256QAM, 64QAM, 16QAM, QPSK, BPSK for OFDM
	802.11ax	1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK for OFDMA
Transition Rate	802.11a	6 - 54 Mbps
	802.11n_HT20	up to 72.2 Mbps
	802.11n_HT40	up to 150 Mbps
	802.11ac_VHT20	up to 86.7 Mbps
	802.11ac_VHT40	up to 200 Mbps
	802.11ac_VHT80	up to 433.3 Mbps
	802.11ax_HE20	up to 143.4 Mbps
	802.11ax_HE40	up to 286.8 Mbps
	802.11ax_HE80	up to 600.5 Mbps

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1.4 Antenna Designation

Ant. Type	Brand	Part No.	Freq (MHz)	Peak Gain (dBi)	Ant1/Ant2
PIFA	INPAQ Technology Co., Ltd.	WA-F-LE-01-026	5250~5350	2.89	Ant1
			5470~5725	2.27	
		WA-F-LE-02-079	5250~5350	2.8	Ant2
			5470~5725	2.87	

Note:

1. Pre-scanned was done on the above antennas, measurements were demonstrated by using the antenna with the highest or lowest gain for the worst-case scenarios.
2. The antenna information is provided by the applicant, and the laboratory shall not be held liable for the accuracy, completeness, or reliability of any applicant-supplied data.

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2 SUMMARY OF TEST RESULT

FCC Rules	Description Of Test	Result
§15.407(h)	TPC and DFS Measurement	Compliant

2.1 Test Methodology of Applied Standards

FCC Part 15, Subpart E §15.407

FCC KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02

FCC KDB 905462 D03 UNII Clients Without Radar Detection New Rules v01r02

2.2 Measurement Uncertainty

Test Items	Uncertainty
TPC and DFS Measurement	+/- 1.49 Hz
Temperature	+/- 0.6 °C
Humidity	+/- 3 %
DC / AC Power Source	+/- 1 %

Note:

1. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.
2. The conformity assessment statement in this report is based solely on the test results, measurement uncertainty is excluded.

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2.3 Test Facility

Laboratory	Test Site Address	Test Site Name	FCC Designation Number / Registration Number	ISED CAB identifier/ Company Number
TW3702 / 4620A	No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan.	SAC 1	TW0027 / 891563	TW3702 / 4620A
		SAC 2		
		SAC 3		
		Conduction 1		
		Conducted 1		
		Conducted 2		
		Conducted 3		
		Conducted 4		
		Conducted 5		
		Conducted 6		
	No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333	Conduction C	TW0028 / 200037	TW3702 / 4620E
		SAC C		
		SAC D		
		SAC G		
		Conducted A		
		Conducted B		
		Conducted C		
		Conducted D		
		Conducted E		
		Conducted F		
		Conducted G		

Note: The test site name is noted on the equipment list to indicate where the measurements were conducted.

Temperature:	23.7	°C	Relative Humidity:	62	%
Test site	Conducted A		Test Start:	12/17/2025	
Test Engineer:	Ari		Test Done:	12/17/2025	

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3 TEST INSTRUMENT

Conducted Emission Test Site: Conducted A					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
Attenuator	KEYSIGHT	11716C	RF46	11/13/2025	11/12/2026
EMI Test Receiver	Anritsu	N9038A	MY52260216	11/24/2025	11/23/2026
Signal Generator	Keysight	N5182B	MY59101143	02/06/2025	02/05/2026
Splitter	RF-LAMBDA	RFLT2W1G18G	RF51	11/13/2025	11/12/2026
Splitter	RF-LAMBDA	RFLT2W1G18G	RF53	11/13/2025	11/12/2026
Splitter	RF-LAMBDA	RFLT2W1G18G	RF55	11/13/2025	11/12/2026
Splitter	RF-LAMBDA	RFLT4W1G18G	RF62	11/13/2025	11/12/2026
Test Software	SGS Taiwan	Dynamic Frequency Selection Test	Ver. 22.01.24	N.C.R	N.C.R

NOTE: N.C.R refers to Not Calibrated Required.

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4 REGULATORY REQUIREMENTS

4.1 Transmit Power Control (TPC)

U-NII devices operating in the 5.25-5.35 GHz band and the 5.47-5.725 GHz band shall employ a TPC mechanism. The U-NII device is required to have the capability to operate at least 6 dB below the mean EIRP value of 30 dBm. A TPC mechanism is not required for systems with an e.i.r.p. of less than 500 mW.

4.2 Dynamic Frequency Selection (DFS)

4.2.1 FCC

Radar Detection Function of Dynamic Frequency Selection (DFS). U-NII devices operating with any part of its 26 dB emission bandwidth in the 5.25-5.35 GHz and 5.47-5.725 GHz bands shall employ a DFS radar detection mechanism to detect the presence of radar systems and to avoid co-channel operation with radar systems. Operators shall only use equipment with a DFS mechanism that is turned on when operating in these bands.

The minimum DFS detection threshold for devices with a maximum e.i.r.p. of 200 mW to 1 W is -64 dBm. For devices that operate with less than 200 mW e.i.r.p. and a power spectral density of less than 10 dBm in a 1 MHz band, the minimum detection threshold is -62 dBm. The detection threshold is the received power averaged over 1 microsecond referenced to a 0 dBi antenna. For the initial channel setting, the manufacturers shall be permitted to provide for either random channel selection or manual channel selection.

Maximum Transmit Power	Value (See Notes 1, 2, and 3)
EIRP $\geq$ 200 milliwatt	-64 dBm
EIRP < 200 milliwatt and power spectral density < 10 dBm/MHz	-62 dBm
EIRP < 200 milliwatt that do not meet the power spectral density requirement	-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. Note 3: EIRP is based on the highest antenna gain. For MIMO devices refer to KDB Publication 662911 D01.	

(i) Operational Modes. The DFS requirement applies to the following operational modes:

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- (a) The requirement for channel availability check time applies in the master operational mode.
- (b) The requirement for channel move time applies in both the master and slave operational modes.
- (ii) Channel Availability Check Time. A U-NII device shall check if there is a radar system already operating on the channel before it can initiate a transmission on a channel and when it has to move to a new channel. The U-NII device may start using the channel if no radar signal with a power level greater than the interference threshold values is detected within 60 seconds.
- (iii) Channel Move Time. After a radar's presence is detected, all transmissions shall cease on the operating channel within 10 seconds. Transmissions during this period shall consist of normal traffic for a maximum of 200 ms after detection of the radar signal. In addition, intermittent management and control signals can be sent during the remaining time to facilitate vacating the operating channel.
- (iv) Non-occupancy Period. A channel that has been flagged as containing a radar system, either by a channel availability check or in-service monitoring, is subject to a non-occupancy period of at least 30 minutes. The non-occupancy period starts at the time when the radar system is detected.

4.3 Applicability of DFS requirements during normal operation

Requirement	Operational Mode
	Client Without Radar Detection
DFS Detection Threshold	Not required
Channel Closing Transmission time	Yes
Channel Move time	Yes
U-NII Detection Bandwidth	Not required

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.

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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 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.

Additional requirements for devices with multiple bandwidth mode	Client Without Radar Detection
U-NII Detection Bandwidth and Statistical Performance Check	Not required
Channel Move Time and Channel Closing Transmission Time	Test using the widest BW mode available for the link
All other tests	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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4.4 Radar Test Waveforms

4.4.1 Short Pulse Radar

Radar Type	Pulse Width (μsec)	PRI (μsec)	Number of Pulses	Minimum Percentage of Successful Detection	Minimum Number of Trials
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	Roundup $\left\{ \left(\frac{1}{360} \right) \cdot \left(\frac{19 \cdot 10^6}{\text{PRI}_{\mu\text{sec}}} \right) \right\}$	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 (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.					

4.4.2 Long Pulse Radar

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

4.4.3 Frequency Hopping Radar

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

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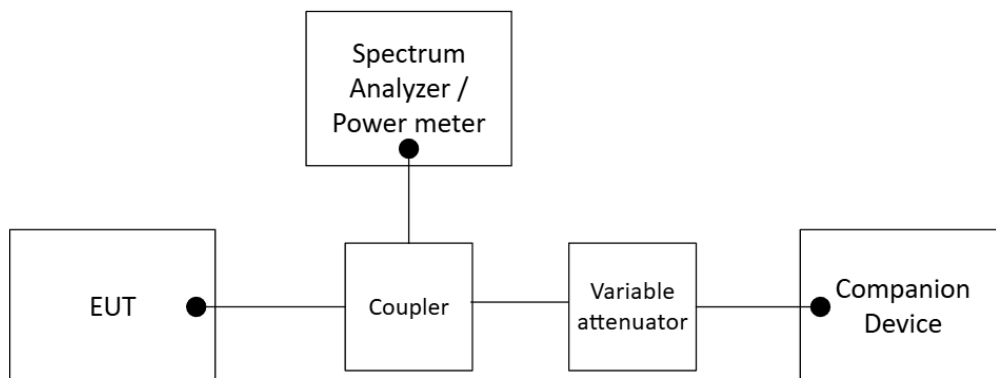
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5 TEST CONFIGURATION

5.1 Transmit Power Control (TPC)



1. Configure EUT and companion device for peer-to-peer communication
2. Set variable attenuator to a high RSSI level to enable TPC function of the device (noise free spectral environment)
3. Establish a link and start communication between EUT and companion device
4. Capture power from spectrum analyzer/power meter
5. Set variable attenuator to a low RSSI level to disable TPC function of the device (noisy spectral environment)
6. Capture power from spectrum analyzer/power meter
7. Compare the highest power from the step 4 to the highest power from the step 6 and determine the delta. For MIMO operations use the sum of the highest power from each individual antenna.

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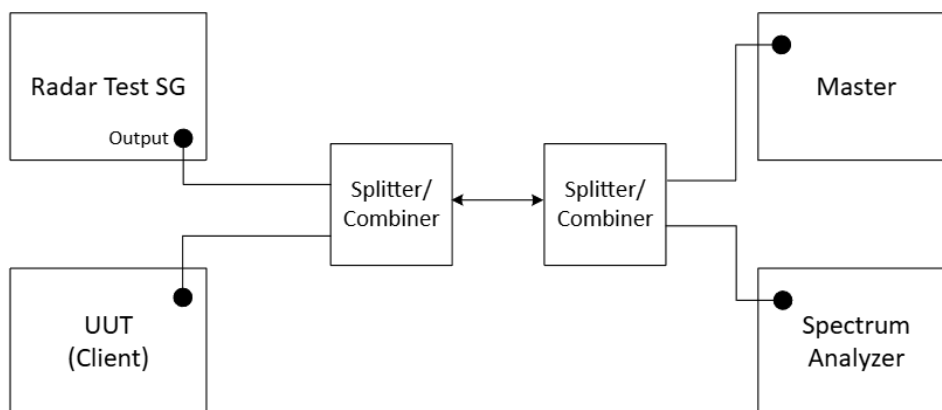
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5.2 Dynamic Frequency Selection (DFS)

Setup for Client with injection at the Master



EUT operates over the 5250-5350MHz and 5470-5725MHz ranges and EUT is a slave device (client equipment) w/o radar detection and DFS capability.

WLAN traffic is generated by streaming the mpeg file from the master to slave in full monitor video mode using the media player or transmit the data with the minimum channel loading of approximately 17%.

While calibrate the path on antenna port of DFS test equipment (master), measurements equipment (spectrum) is ensured to be 50 Ohms, and therefore verification on antenna gain measurement can be ignored.

Message or files that is used for communication between Master and Client:

IP based system:

For the required channel loading, send packets via software to reach the applicable pay load via the UE to the slave.

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6 TEST RESULTS

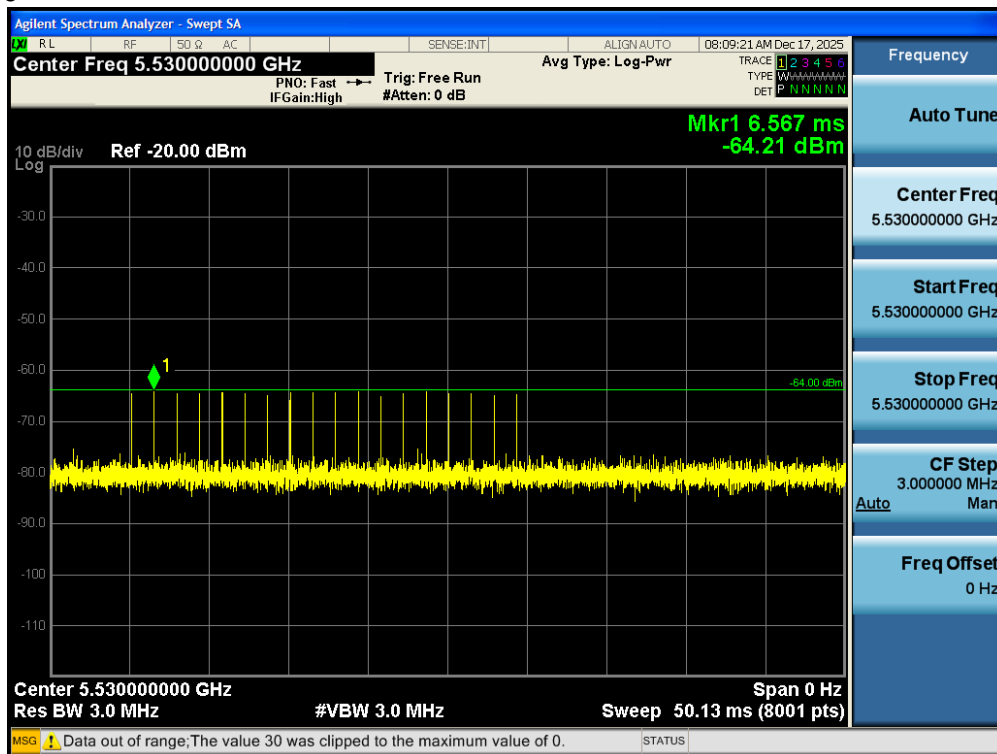
6.1 Transmitter Power Control (TPC)

N/A, TPC is not required.

6.2 Radar waveforms

802.11 HE80 5530MHz

Radar type 0



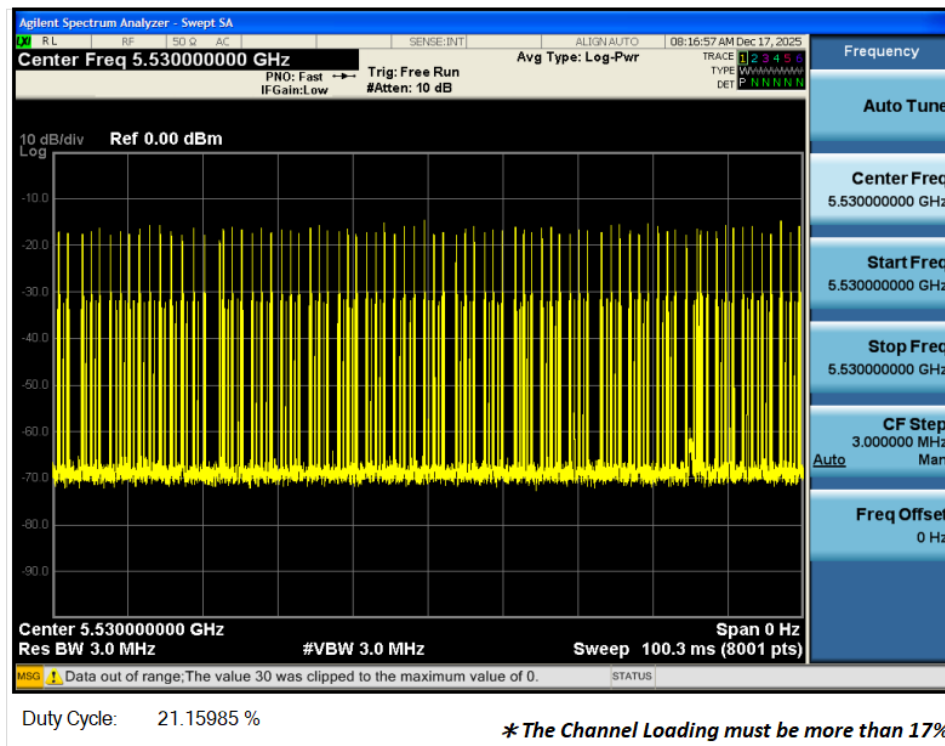
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6.3 WLAN traffic

802.11 HE80 5530MHz



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6.4 Channel closing transmission and Move time

Channel Shutdown Result				
Detection Threshold Level (dBm)			-64	
Modulation Mode	Freq. (MHz)	Radar Test Signal	Channel Closing Transmission Time(ms) 200ms~10sec	Channel Move Time(s)
HE80	5530	Type 0	18	0.754
Limit			60 ms	10 sec
Result			Complied	

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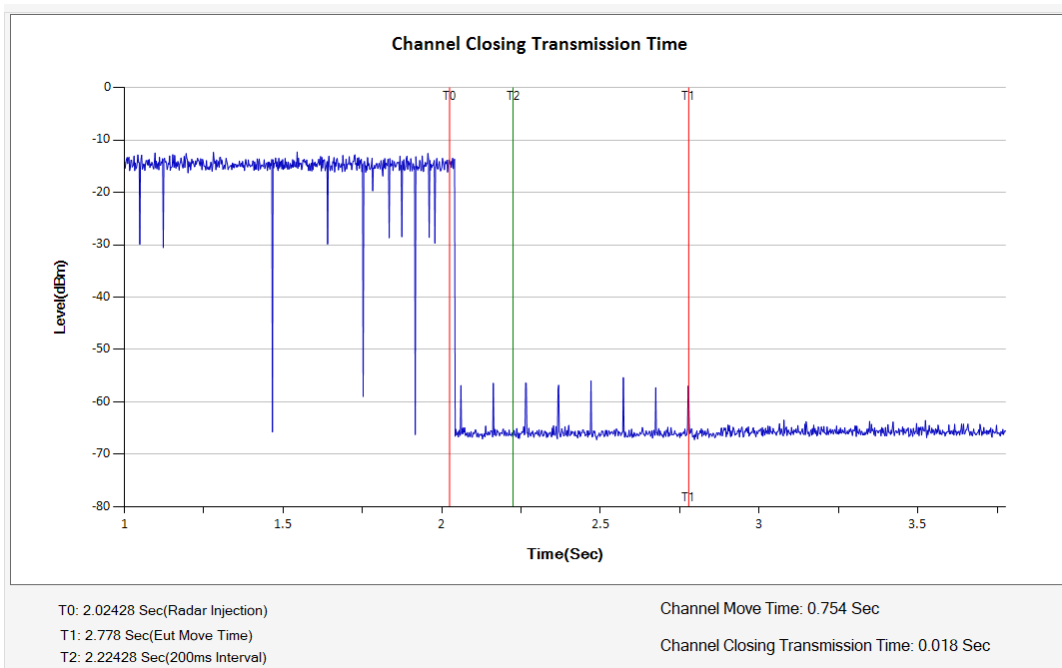
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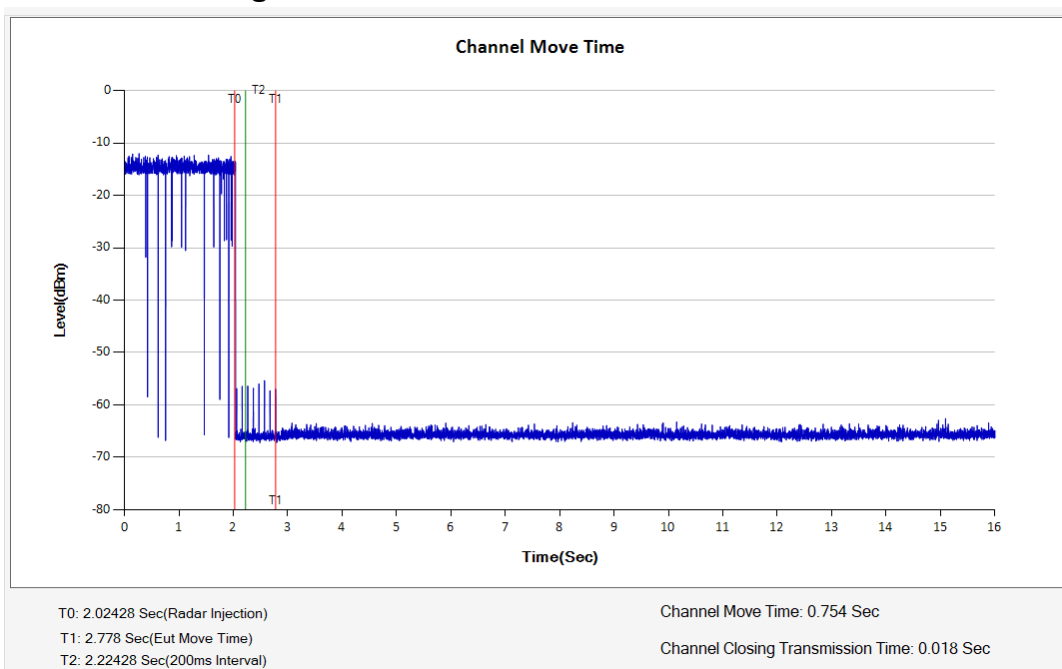
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802.11 HE80 5530MHz

Channel Move and Closing Transmission Time – 1



Channel Move and Closing Transmission Time – 2



Verdict: Note: narrowing the sweep time as the good engineering process for the verification of transmission closing in 200ms

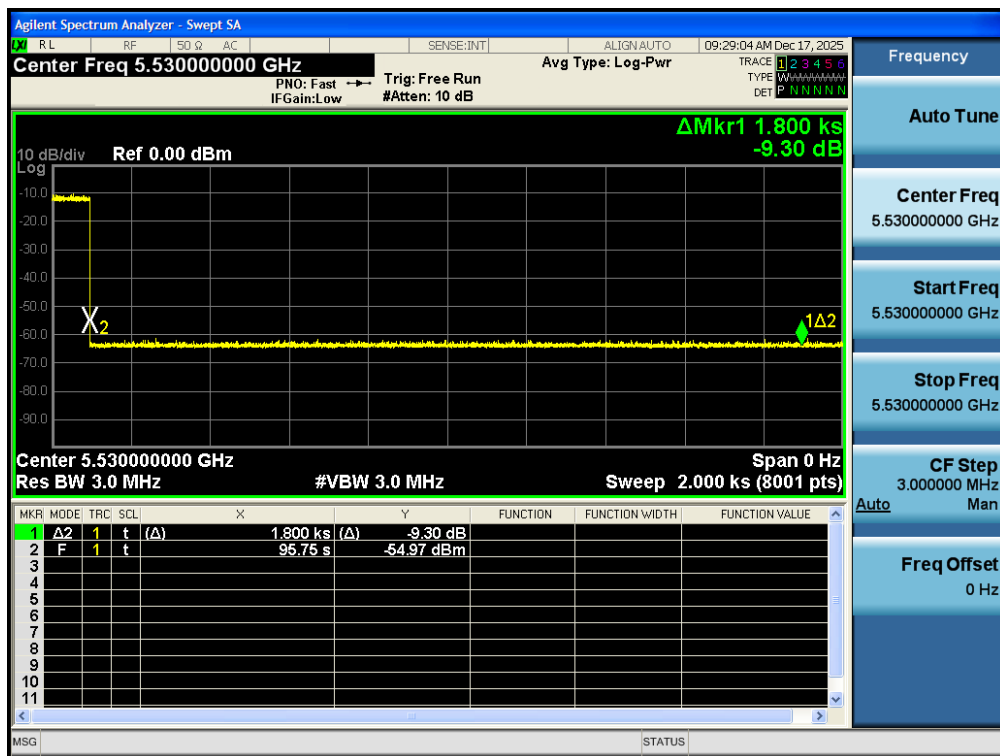
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6.5 Non-occupancy Period (without radar detection)

802.11 HE80 5530MHz



Verdict: To verify whether channel is unavailable to be operated in 30 minutes.

$$1.8ks = 1800s = 1800 \text{ s/min} / 60 = 30\text{minute}$$

~ End of Report ~

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