

TEST REPORT

EUT Description	Convertible PC
Brand Name	Dell
Model Name	P195G
FCC ID	PD9AX211NG
ISED ID	1000M-AX211NG
Date of Test Start/End	2025-01-17 / 2025-01-17
Features	802.11ax, Dual Band, 2x2 Wi-Fi 6 + Bluetooth® 5.2 (see section 5)

Applicant	Intel Corporation SAS
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Reference Standards	FCC 47 CFR Part §2.1093 RSS 102, issue 6 (see section 1)
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Test Report identification	240813-02.TR05
Revision Control	Rev. 00 This test report revision replaces any previous test report revision (see section 8)

The test results relate only to the samples tested.
Reference to accreditation shall be used only by full reproduction of test report

Reviewed by _____

Table of Contents

1. Standards, reference documents and applicable test methods	3
2. General conditions, competences and guarantees	3
3. Environmental Conditions	3
4. Test Sample	3
5. EUT Features	4
6. Remarks and comments	4
7. Test Results summary.....	4
WLAN TX POWER TABLE SUMMARY	4
8. Document Revision History	5
Annex A. Test & System description	6
A.1 TEST SETUP	6
A.2 PROCEDURE	6
A.3 TEST EQUIPMENT LIST.....	7
A.4 MEASUREMENT UNCERTAINTY EVALUATION.....	7
Annex B. Test Results	8
B.1 TRIGGER LID ANGLE DETECTION AND POWER VERIFICATION 2.4GHZ	9
B.1.1 LCD DIRECTION 0°	9
B.2 TRIGGER LID ANGLE DETECTION AND POWER VERIFICATION 5GHZ	11
B.2.1 LCD DIRECTION 0°	11

1. Standards, reference documents and applicable test methods

FCC	1. FCC Title 47 CFR Part §2.1093 – Radiofrequency radiation exposure evaluation: portable devices. 2022-10-01 Edition 2. KDB 388624 D02 Pre-Approval Guidance List v18, PRE-APPROVAL GUIDANCE LIST 3. FCC Presentations TCB Workshop November 2019, RF exposure procedures.
ISED	1. RSS 102 Issue 6 - Radio Frequency (RF) Exposure Compliance of Radiocommunication Apparatus (All Frequency Bands)

2. General conditions, competences and guarantees

- ✓ Tests performed under FCC standards identified in section 1 are covered by A2LA accreditation.
- ✓ Tests performed under ISED standards identified in section 1 are covered by Cofrac accreditation.
- ✓ Intel Corporation SAS Wireless RF Lab (Intel WRF Lab) is an ISO/IEC 17025:2017 laboratory accredited by the American Association for Laboratory Accreditation (A2LA) with the certificate number 3478.01.
- ✓ Intel Corporation SAS Wireless RF Lab (Intel WRF Lab) is an Accredited Test Firm recognized by the FCC, with Designation Number FR0011.
- ✓ Intel Corporation SAS Wireless RF Lab (Intel WRF Lab) is an ISO/IEC 17025:2017 testing laboratory accredited by the French Committee for Accreditation (Cofrac) with the certificate number 1-6736.
- ✓ Intel Corporation SAS Wireless RF Lab (Intel WRF Lab) is a Registered Test Site listed by ISED, with ISED company number 1000Y and CAB identifier FR0005.
- ✓ Intel WRF Lab only provides testing services and is committed to providing reliable, unbiased test results and interpretations.
- ✓ Intel WRF Lab is liable to the client for the maintenance of the confidentiality of all information related to the item under test and the results of the test.
- ✓ Intel WRF Lab has developed calibration and proficiency programs for its measurement equipment to ensure correlated and reliable results to its customers.
- ✓ This report is only referred to the item that has undergone the test.
- ✓ This report does not imply an approval of the product by the Certification Bodies or competent Authorities.

3. Environmental Conditions

- ✓ At the site where the measurements were performed the following limits were not exceeded during the tests:

Temperature	Min: 18.20°C Max: 21.45°C AVG: 20.25°C
Humidity	Min: 21.79% Max: 35.40% AVG: 24.57%

4. Test Sample

Sample	ID #	Description	Model	Serial #	Note
#1	240813-02.S03	Convertible PC	P195G	2024101519474	-

5. EUT Features

The herein information is provided by the customer.

Intel WRF Lab declines any responsibility for the accuracy of the stated customer provided information, especially if it has any impact on the correctness of test results presented in this report.

Brand Name	Dell		
Model Name	P195G		
Prototype / Production	Production		
Host Identification	Convertible PC		
Supported Radios	802.11b/g/n/ax	2.4GHz (2400.0 – 2483.5 MHz)	
	802.11a/n/ac/ax	5.2GHz (5150.0 – 5250.0 MHz)	
		5.3GHz (5250.0 – 5350.0 MHz)	
		5.6GHz (5470.0 – 5725.0 MHz)	
		5.8GHz (5725.0 – 5895.0 MHz)	
	802.11ax	6.0GHz (5925.0 – 7125.0 MHz)	
	Bluetooth	2.4GHz (2400.0 – 2483.5 MHz)	

6. Remarks and comments

1. The test report is a validation of the G sensor functionality

7. Test Results summary

The statement of conformity to applicable standards in the table below are based on the measured values, without considering the measurement uncertainties.

7.1.

WLAN Tx Power Table Summary

Device Mode	Lid Angle range	2.4GHz-CH6 802.11b - 1Mbps				5GHz-CH120 802.11a - 6Mbps			
		Target Power (dBm)		Measured Power (dBm)		Target Power (dBm)		Measured Power (dBm)	
		Ant AUX (1)	Ant MAIN (2)	Ant AUX (1)	Ant MAIN (2)	Ant AUX (1)	Ant MAIN (2)	Ant AUX (1)	Ant MAIN (2)
Notebook	$0^{\circ} \leq \varphi < 180^{\circ}$	18.0	18.0	17.74	17.65	16.5	16.5	16.34	16.07
Tent	$180^{\circ} \leq \varphi < 320^{\circ}$	12.5	12.5	12.36	12.33	12.5	12.5	16.34	16.07
Stand	$320^{\circ} \leq \varphi < 340^{\circ}$	12.5	12.5	12.36	12.33	12.5	12.5	12.19	12.27
Tablet	$340^{\circ} \leq \varphi \leq 360^{\circ}$	12.5	12.5	12.36	12.33	12.5	12.5	12.19	12.27

8. Document Revision History

Revision #	Modified by	Revision Details
Rev.00	Axel AZIZE G.	First Issue

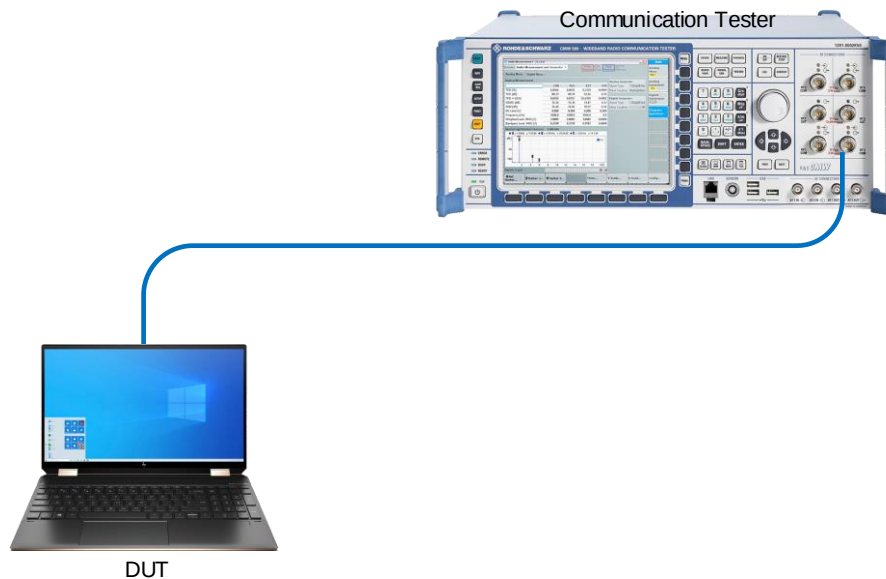
Annex A. Test & System description

A.1 Test setup

The conducted power measurement test setup is described in the following and illustrated in Figure 1.

- The DUT is convertible PC from Dell model P195G. An AX211NGW connectivity module is installed inside
- Uplink signal power is measured with the access point.
- Path loss in the power measurement setup from the wireless module antenna port to the access point is compensated
- ANT tool version .01832.23.60.0 is used on the DUT to query the power table index and sensor status

Figure.1 – Power measurement test setup.



A.2 Procedure

The following additional guidance applies only to convertible laptops whose screen rotates around one axis, from 0 degrees to 360 degrees, in a clamshell style, i.e., from closed mode to open mode, to “tent” mode, and finally, to tablet mode. This process must be followed to determine the lid angle where a power reduction occurs, by taking power measurements at each step, as indicated in the step listed here below:

1. From the lid in closed mode (0 degrees), open the screen in 10-degree steps until laptop mode is obtained
2. Lower the screen by 5 degrees increments to verify that the “closed mode” is triggered
3. From the position of the previous step, open the screen in 1-degree increments until laptop mode is triggered again
4. Continue opening the screen in 1-degree increments until at least 5 degrees past where “laptop mode” was obtained, then continue opening the screen in 10-degree steps until the device switches to tablet mode
5. Reverse the previous procedure to go from tablet mode back down to closed mode

A.3 Test Equipment List

Equipment and accessories used for the conducted power measurement test setup are listed below. The Test Platform (DUT), test setup and associated equipment are shown in A.1.3.

ID#	Device	Type/Model	Serial #	Manufacturer	Cal. Date	Cal. Due Date
125-000	Communication Tester	CMW500	129337	Rohde & Schwartz	2023-04-20	2025-04-20
022-003 022-004	RF path (RF cable + Adapters)	-	-	-	RF path loss was verified before usage	

A.4 Measurement Uncertainty Evaluation

The system uncertainty evaluation is shown in the table below with a coverage factor of $k = 2$ to indicate a 95% level of confidence:

Measurement type	Uncertainty	Unit
Power level	± 1	dB

Annex B. Test Results

The herein test results were performed by:

Test case measurement	Test Personnel
G-sensor	Axel AZIZE G.

B.1 Trigger lid angle detection and power verification 2.4GHz**B.1.1 LCD direction 0°**

The lid is rotating from 0° to 360°. The screen is vertical, LCD direction is 0°

Device Mode	Angle (°)	Meas. Power (dBm) 2.4GHz Ch6 Aux (1) Ant.	Meas. Power (dBm) 2.4GHz Ch6 Main (2) Ant.	Device Mode	Angle (°)	Meas. Power (dBm) 2.4GHz Ch6 Aux (1) Ant.	Meas. Power (dBm) 2.4GHz Ch6 Main (2) Ant.
Notebook	0	17.74	17.65	Tent	210	12.36	12.33
Notebook	10	17.74	17.65	Tent	220	12.36	12.33
Notebook	20	17.74	17.65	Tent	230	12.36	12.33
Notebook	30	17.74	17.65	Tent	240	12.36	12.33
Notebook	40	17.74	17.65	Tent	250	12.36	12.33
Notebook	50	17.74	17.65	Tent	260	12.36	12.33
Notebook	60	17.74	17.65	Tent	270	12.36	12.33
Notebook	70	17.74	17.65	Tent	280	12.36	12.33
Notebook	80	17.74	17.65	Tent	290	12.36	12.33
Notebook	90	17.74	17.65	Tent	300	12.36	12.33
Notebook	100	17.74	17.65	Tent	310	12.36	12.33
Notebook	110	17.74	17.65	Stand	320	12.36	12.33
Notebook	120	17.74	17.65	Tent	315	12.36	12.33
Notebook	130	17.74	17.65	Tent	316	12.36	12.33
Notebook	140	17.74	17.65	Tent	317	12.36	12.33
Notebook	140	17.74	17.65	Tent	318	12.36	12.33
Notebook	150	17.74	17.65	Tent	319	12.36	12.33
Notebook	160	17.74	17.65	Stand	320	12.36	12.33
Notebook	170	17.74	17.65	Stand	330	12.36	12.33
Tent	180	12.36	12.33	Tablet	340	12.36	12.33
Notebook	175	17.74	17.65	Stand	335	12.36	12.33
Notebook	176	17.74	17.65	Stand	336	12.36	12.33
Notebook	177	17.74	17.65	Stand	337	12.36	12.33
Notebook	178	17.74	17.65	Stand	338	12.36	12.33
Notebook	179	17.74	17.65	Stand	339	12.36	12.33
Tent	180	12.36	12.33	Tablet	340	12.36	12.33
Tent	190	12.36	12.33	Tablet	350	12.36	12.33
Tent	200	12.36	12.33	Tablet	360	12.36	12.33

The lid is rotating from 360° to 0°. The screen is vertical, LCD direction to 0°.

Device Mode	Angle (°)	Meas. Power (dBm) 2.4GHz Ch6 Aux (1) Ant.	Meas. Power (dBm) 2.4GHz Ch6 Main (2) Ant.
Tablet	360	12.36	12.33
Tablet	350	12.36	12.33
Tablet	340	12.36	12.33
Stand	330	12.36	12.33
Stand	335	12.36	12.33
Tablet	340	12.36	12.33
Stand	339	12.36	12.33
Stand	338	12.36	12.33
Stand	337	12.36	12.33
Stand	336	12.36	12.33
Stand	335	12.36	12.33
Stand	330	12.36	12.33
Stand	320	12.36	12.33
Tent	310	12.36	12.33
Tent	315	12.36	12.33
Stand	320	12.36	12.33
Tent	319	12.36	12.33
Tent	318	12.36	12.33
Tent	317	12.36	12.33
Tent	316	12.36	12.33
Tent	315	12.36	12.33
Tent	310	12.36	12.33
Tent	300	12.36	12.33
Tent	290	12.36	12.33
Tent	280	12.36	12.33
Tent	270	12.36	12.33
Tent	260	12.36	12.33
Tent	250	12.36	12.33
Tent	240	12.36	12.33
Tent	230	12.36	12.33
Tent	220	12.36	12.33
Tent	210	12.36	12.33
Tent	200	12.36	12.33

Device Mode	Angle (°)	Meas. Power (dBm) 2.4GHz Ch6 Aux (1) Ant.	Meas. Power (dBm) 2.4GHz Ch6 Main (2) Ant.
Tent	190	12.36	12.33
Tent	180	12.36	12.33
Notebook	170	17.74	17.65
Tent	175	12.36	12.33
Tent	180	12.36	12.33
Notebook	179	17.74	17.65
Notebook	178	17.74	17.65
Notebook	177	17.74	17.65
Notebook	176	17.74	17.65
Notebook	175	17.74	17.65
Notebook	170	17.74	17.65
Notebook	160	17.74	17.65
Notebook	150	17.74	17.65
Notebook	140	17.74	17.65
Notebook	130	17.74	17.65
Notebook	120	17.74	17.65
Notebook	110	17.74	17.65
Notebook	100	17.74	17.65
Notebook	90	17.74	17.65
Notebook	80	17.74	17.65
Notebook	70	17.74	17.65
Notebook	60	17.74	17.65
Notebook	50	17.74	17.65
Notebook	40	17.74	17.65
Notebook	30	17.74	17.65
Notebook	20	17.74	17.65
Notebook	10	17.74	17.65
Notebook	0	17.74	17.65

B.2 Trigger lid angle detection and power verification 5GHz

B.2.1 LCD direction 0°

The lid is rotating from 0° to 360°. The screen is vertical, LCD direction is 0°

Device Mode	Angle (°)	Meas. Power (dBm) 5GHz Ch120 Aux (1) Ant.	Meas. Power (dBm) 5GHz Ch120 Main (2) Ant.	Device Mode	Angle (°)	Meas. Power (dBm) 5GHz Ch120 Aux (1) Ant.	Meas. Power (dBm) 5GHz Ch120 Main (2) Ant.
Notebook	0	16.34	16.07	Tent	210	16.34	16.07
Notebook	10	16.34	16.07	Tent	220	16.34	16.07
Notebook	20	16.34	16.07	Tent	230	16.34	16.07
Notebook	30	16.34	16.07	Tent	240	16.34	16.07
Notebook	40	16.34	16.07	Tent	250	16.34	16.07
Notebook	50	16.34	16.07	Tent	260	16.34	16.07
Notebook	60	16.34	16.07	Tent	270	16.34	16.07
Notebook	70	16.34	16.07	Tent	280	16.34	16.07
Notebook	80	16.34	16.07	Tent	290	16.34	16.07
Notebook	90	16.34	16.07	Tent	300	16.34	16.07
Notebook	100	16.34	16.07	Tent	310	16.34	16.07
Notebook	110	16.34	16.07	Stand	320	16.34	16.07
Notebook	120	16.34	16.07	Tent	315	16.34	16.07
Notebook	130	16.34	16.07	Tent	316	16.34	16.07
Notebook	140	16.34	16.07	Tent	317	16.34	16.07
Notebook	140	16.34	16.07	Tent	318	16.34	16.07
Notebook	150	16.34	16.07	Tent	319	16.34	16.07
Notebook	160	16.34	16.07	Stand	320	16.34	16.07
Notebook	170	16.34	16.07	Stand	330	16.34	16.07
Tent	180	16.34	16.07	Tablet	340	16.34	16.07
Notebook	175	16.34	16.07	Stand	335	16.34	16.07
Notebook	176	16.34	16.07	Stand	336	16.34	16.07
Notebook	177	16.34	16.07	Stand	337	16.34	16.07
Notebook	178	16.34	16.07	Stand	338	16.34	16.07
Notebook	179	16.34	16.07	Stand	339	16.34	16.07
Tent	180	16.34	16.07	Tablet	340	16.34	16.07
Tent	190	16.34	16.07	Tablet	350	16.34	16.07
Tent	200	16.34	16.07	Tablet	360	16.34	16.07

The lid is rotating from 360° to 0°. The screen is vertical, LCD direction to 0°.

Device Mode	Angle (°)	Meas. Power (dBm) 5GHz Ch120 Aux (1) Ant.	Meas. Power (dBm) 5GHz Ch120 Main (2) Ant.
Tablet	360	16.34	16.07
Tablet	350	16.34	16.07
Tablet	340	16.34	16.07
Stand	330	16.34	16.07
Stand	335	16.34	16.07
Tablet	340	16.34	16.07
Stand	339	16.34	16.07
Stand	338	16.34	16.07
Stand	337	16.34	16.07
Stand	336	16.34	16.07
Stand	335	16.34	16.07
Stand	330	16.34	16.07
Stand	320	16.34	16.07
Tent	310	16.34	16.07
Tent	315	16.34	16.07
Stand	320	16.34	16.07
Tent	319	16.34	16.07
Tent	318	16.34	16.07
Tent	317	16.34	16.07
Tent	316	16.34	16.07
Tent	315	16.34	16.07
Tent	310	16.34	16.07
Tent	300	16.34	16.07
Tent	290	16.34	16.07
Tent	280	16.34	16.07
Tent	270	16.34	16.07
Tent	260	16.34	16.07
Tent	250	16.34	16.07
Tent	240	16.34	16.07
Tent	230	16.34	16.07
Tent	220	16.34	16.07
Tent	210	16.34	16.07
Tent	200	16.34	16.07

Device Mode	Angle (°)	Meas. Power (dBm) 5GHz Ch120 Aux (1) Ant.	Meas. Power (dBm) 5GHz Ch120 Main (2) Ant.
Tent	190	16.34	16.07
Tent	180	16.34	16.07
Notebook	170	16.34	16.07
Tent	175	16.34	16.07
Tent	180	16.34	16.07
Notebook	179	16.34	16.07
Notebook	178	16.34	16.07
Notebook	177	16.34	16.07
Notebook	176	16.34	16.07
Notebook	175	16.34	16.07
Notebook	170	16.34	16.07
Notebook	160	16.34	16.07
Notebook	150	16.34	16.07
Notebook	140	16.34	16.07
Notebook	130	16.34	16.07
Notebook	120	16.34	16.07
Notebook	110	16.34	16.07
Notebook	100	16.34	16.07
Notebook	90	16.34	16.07
Notebook	80	16.34	16.07
Notebook	70	16.34	16.07
Notebook	60	16.34	16.07
Notebook	50	16.34	16.07
Notebook	40	16.34	16.07
Notebook	30	16.34	16.07
Notebook	20	16.34	16.07
Notebook	10	16.34	16.07
Notebook	0	16.34	16.07

End of the report

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