

TEST REPORT

EUT Description	Convertible PC
Brand Name	Dell
Model Name	P195G
FCC ID	PD9BE201NG
ISED ID	1000M-BE201NG
Date of Test Start/End	2025-01-15 / 2025-01-16
Features	2x2 Wi-Fi- Bluetooth®

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	240813-03.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 _____

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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: 21.19°C Max: 21.59°C AVG: 21.37°C
Humidity	Min: 20.17% Max: 28.33% AVG: 23.77%

4. Test Sample

Sample	ID #	Description	Model	Serial #	Note
#1	240813-03.S03	Convertible PC	P195G	2024100712234	-

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/be	2.4GHz (2400.0 – 2483.5 MHz)	
	802.11a/n/ac/ax/be	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/be	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	LCD Direction	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)
Lid Close	$0^{\circ} \leq \varphi < 35^{\circ}$	-	18.0	18.0	17.55	17.92	13.0	13.0	11.90	12.12
Notebook	$1^{\circ} \leq \varphi < 190^{\circ}$	0°	18.0	18.0	17.55	17.92	13.0	13.0	11.90	12.12
Tablet	$190^{\circ} < \varphi \leq 360^{\circ}$	0°	16.5	16.5	15.99	16.40	12.5	12.5	11.88	11.53

8. Document Revision History

Revision #	Modified by	Revision Details
Rev.00	Axel AZIZE G.	-

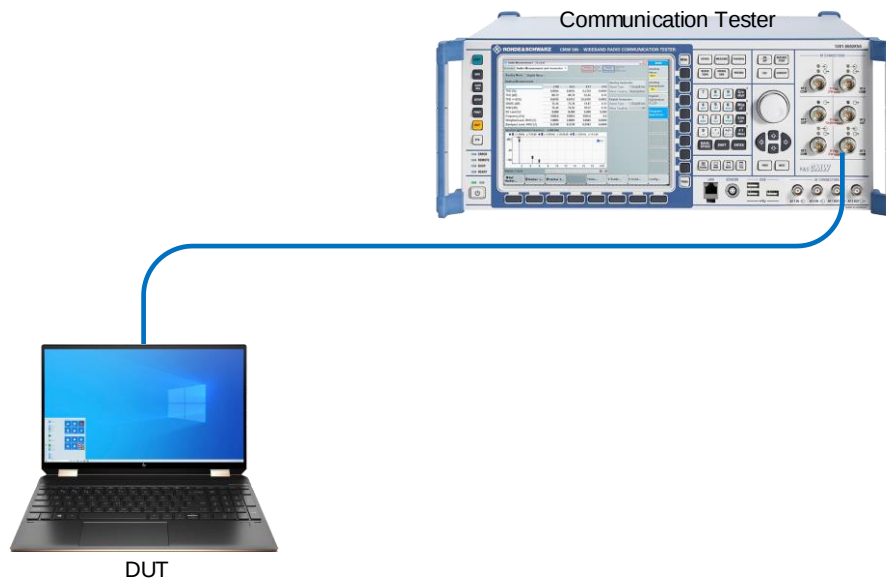
Annex A. Test & System description

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 BE201NGW 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 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	2023-04-12	2025-04-12
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	± 2	dB

Annex B. Test Results

The herein test results were performed by:

Test case measurement	Test Personnel
Power	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.
Lid close	0	17.55	17.92
Notebook	10	17.55	17.92
Notebook	20	17.55	17.92
Notebook	30	17.55	17.92
Notebook	40	17.55	17.92
Notebook	35	17.55	17.92
Notebook	36	17.55	17.92
Notebook	37	17.55	17.92
Notebook	38	17.55	17.92
Notebook	39	17.55	17.92
Notebook	40	17.55	17.92
Notebook	50	17.55	17.92
Notebook	60	17.55	17.92
Notebook	70	17.55	17.92
Notebook	80	17.55	17.92
Notebook	90	17.55	17.92
Notebook	100	17.55	17.92
Notebook	110	17.55	17.92
Notebook	120	17.55	17.92
Notebook	130	17.55	17.92
Notebook	140	17.55	17.92
Notebook	135	17.55	17.92
Notebook	130	17.55	17.92
Notebook	131	17.55	17.92
Notebook	132	17.55	17.92
Notebook	133	17.55	17.92
Notebook	134	17.55	17.92
Notebook	135	17.55	17.92
Notebook	136	17.55	17.92
Notebook	137	17.55	17.92
Notebook	138	17.55	17.92
Notebook	138	17.55	17.92
Notebook	140	17.55	17.92
Notebook	150	17.55	17.92
Notebook	160	17.55	17.92
Notebook	180	17.55	17.92

Device Mode	Angle (°)	Meas. Power (dBm) 2.4GHz Ch6 Aux (1) Ant.	Meas. Power (dBm) 2.4GHz Ch6 Main (2) Ant.
Tablet	190	15.99	16.40
Notebook	185	17.55	17.92
Notebook	186	17.55	17.92
Notebook	187	17.55	17.92
Notebook	188	17.55	17.92
Notebook	189	17.55	17.92
Tablet	190	15.99	16.40
Tablet	191	15.99	16.40
Tablet	192	15.99	16.40
Tablet	193	15.99	16.40
Tablet	194	15.99	16.40
Tablet	200	15.99	16.40
Tablet	210	15.99	16.40
Tablet	220	15.99	16.40
Tablet	230	15.99	16.40
Tablet	240	15.99	16.40
Tablet	250	15.99	16.40
Tablet	260	15.99	16.40
Tablet	270	15.99	16.40
Tablet	280	15.99	16.40
Tablet	290	15.99	16.40
Tablet	300	15.99	16.40
Tablet	310	15.99	16.40
Tablet	320	15.99	16.40
Tablet	330	15.99	16.40
Tablet	340	15.99	16.40
Tablet	350	15.99	16.40
Tablet	360	15.99	16.40

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	15.99	16.40
Tablet	350	15.99	16.40
Tablet	340	15.99	16.40
Tablet	330	15.99	16.40
Tablet	320	15.99	16.40
Tablet	310	15.99	16.40
Tablet	300	15.99	16.40
Tablet	290	15.99	16.40
Tablet	280	15.99	16.40
Tablet	270	15.99	16.40
Tablet	260	15.99	16.40
Tablet	250	15.99	16.40
Tablet	240	15.99	16.40
Tablet	230	15.99	16.40
Tablet	220	15.99	16.40
Tablet	210	15.99	16.40
Tablet	200	15.99	16.40
Tablet	190	15.99	16.40
Notebook	180	17.55	17.92
Tablet	195	15.99	16.40
Tablet	194	15.99	16.40
Tablet	193	15.99	16.40
Tablet	192	15.99	16.40
Tablet	191	15.99	16.40
Notebook	190	15.99	16.40
Notebook	180	15.99	16.40

Device Mode	Angle (°)	Meas. Power (dBm) 2.4GHz Ch6 Aux (1) Ant.	Meas. Power (dBm) 2.4GHz Ch6 Main (2) Ant.
Notebook	170	17.55	17.92
Notebook	160	17.55	17.92
Notebook	150	17.55	17.92
Notebook	140	17.55	17.92
Notebook	130	17.55	17.92
Notebook	120	17.55	17.92
Notebook	110	17.55	17.92
Notebook	100	17.55	17.92
Notebook	90	17.55	17.92
Notebook	80	17.55	17.92
Notebook	70	17.55	17.92
Notebook	60	17.55	17.92
Notebook	50	17.55	17.92
Notebook	40	17.55	17.92
Notebook	30	17.55	17.92
Notebook	20	17.55	17.92
Notebook	10	17.55	17.92
Notebook	0	17.55	17.92

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.
Lid close	0	11.90	12.12
Notebook	10	11.90	12.12
Notebook	20	11.90	12.12
Notebook	30	11.90	12.12
Notebook	40	11.90	12.12
Notebook	50	11.90	12.12
Notebook	60	11.90	12.12
Notebook	70	11.90	12.12
Notebook	80	11.90	12.12
Notebook	90	11.90	12.12
Notebook	100	11.90	12.12
Notebook	110	11.90	12.12
Notebook	120	11.90	12.12
Notebook	130	11.90	12.12
Notebook	140	11.90	12.12
Notebook	150	11.90	12.12
Notebook	160	11.90	12.12
Notebook	170	11.90	12.12
Notebook	180	11.90	12.12

Device Mode	Angle (°)	Meas. Power (dBm) 5GHz Ch120 Aux (1) Ant.	Meas. Power (dBm) 5GHz Ch120 Main (2) Ant.
Tablet	190	11.88	11.53
Notebook	185	11.9	12.12
Notebook	186	11.9	12.12
Notebook	187	11.9	12.12
Notebook	188	11.9	12.12
Tablet	189	11.88	11.53
Tablet	190	11.88	11.53
Tablet	191	11.88	11.53
Tablet	192	11.88	11.53
Tablet	193	11.88	11.53
Tablet	194	11.88	11.53
Tablet	200	11.88	11.53
Tablet	210	11.88	11.53
Tablet	220	11.88	11.53
Tablet	230	11.88	11.53
Tablet	240	11.88	11.53
Tablet	250	11.88	11.53
Tablet	260	11.88	11.53
Tablet	270	11.88	11.53
Tablet	280	11.88	11.53
Tablet	290	11.88	11.53
Tablet	300	11.88	11.53
Tablet	310	11.88	11.53
Tablet	320	11.88	11.53
Tablet	330	11.88	11.53
Tablet	340	11.88	11.53
Tablet	350	11.88	11.53
Tablet	360	11.88	11.53

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	11.88	11.53
Tablet	350	11.88	11.53
Tablet	340	11.88	11.53
Tablet	330	11.88	11.53
Tablet	320	11.88	11.53
Tablet	320	11.88	11.53
Tablet	310	11.88	11.53
Tablet	300	11.88	11.53
Tablet	290	11.88	11.53
Tablet	280	11.88	11.53
Tablet	270	11.88	11.53
Tablet	260	11.88	11.53
Tablet	250	11.88	11.53
Tablet	240	11.88	11.53
Tablet	230	11.88	11.53
Tablet	220	11.88	11.53
Tablet	210	11.88	11.53
Tablet	200	11.88	11.53
Notebook	190	11.90	12.12
Tablet	195	11.88	11.53
Tablet	194	11.88	11.53
Tablet	193	11.88	11.53
Tablet	192	11.88	11.53
Tablet	191	11.88	11.53
Notebook	190	11.90	12.12
Notebook	180	11.90	12.12

Device Mode	Angle (°)	Meas. Power (dBm) 5GHz Ch120 Aux (1) Ant.	Meas. Power (dBm) 5GHz Ch120 Main (2) Ant.
Notebook	170	11.90	12.12
Notebook	160	11.90	12.12
Notebook	150	11.90	12.12
Notebook	140	11.90	12.12
Notebook	130	11.90	12.12
Notebook	120	11.90	12.12
Notebook	110	11.90	12.12
Notebook	100	11.90	12.12
Notebook	90	11.90	12.12
Notebook	80	11.90	12.12
Notebook	70	11.90	12.12
Notebook	60	11.90	12.12
Notebook	50	11.90	12.12
Notebook	40	11.90	12.12
Notebook	30	11.90	12.12
Notebook	20	11.90	12.12
Notebook	10	11.90	12.12
Lid close	0	11.90	12.12

End of the report

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