

TEST REPORT

EUT Description	Convertible PC
Brand Name	DELL
Model Name	P200G
FCC ID	PD9AX211NG
ISED ID	1000M-AX211NG
Date of Test Start/End	2025-02-11 / 2025-02-14
Features	2x2 Wi-Fi- Bluetooth® (see section 5)

Applicant	Intel Corporation SAS
Address	425 Rue de Goa – Le Cargo B6 – 06600 Antibes, FRANCE
Contact Person	Benjamin Lavenant
Telephone/Fax/ Email	Benjamin.lavenant@intel.com

Reference Standards	FCC 47 CFR Part §2.1093 RSS 102, issue 6 (see section 1)
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Test Report identification	241004-04.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	AVG: 21.13°C Min: 20.03°C Max: 22.34°C
Humidity	AVG: 44.62% Min: 37.20% Max: 50.60%

4. Test Sample

Sample	ID #	Description	Model	Serial #	Note
#1	241004-04.S07	Convertible PC	P200G	7865388600033	

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	P200G		
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)
Lid Close	$0^{\circ} \leq \varphi < 1^{\circ}$	17.5	17.0	16.84	16.52	15.5	15.0	14.30	14.59
Notebook	$1^{\circ} \leq \varphi \leq 190^{\circ}$	17.5	17.0	16.84	16.52	15.5	15.0	14.30	14.59
Tablet	$190^{\circ} < \varphi \leq 360^{\circ}$	15.5	16.5	14.78	15.97	12.0	11.5	11.70	10.94

8. Document Revision History

Revision #	Modified by	Revision Details
Rev.00	Estelle GILLES	First Issue

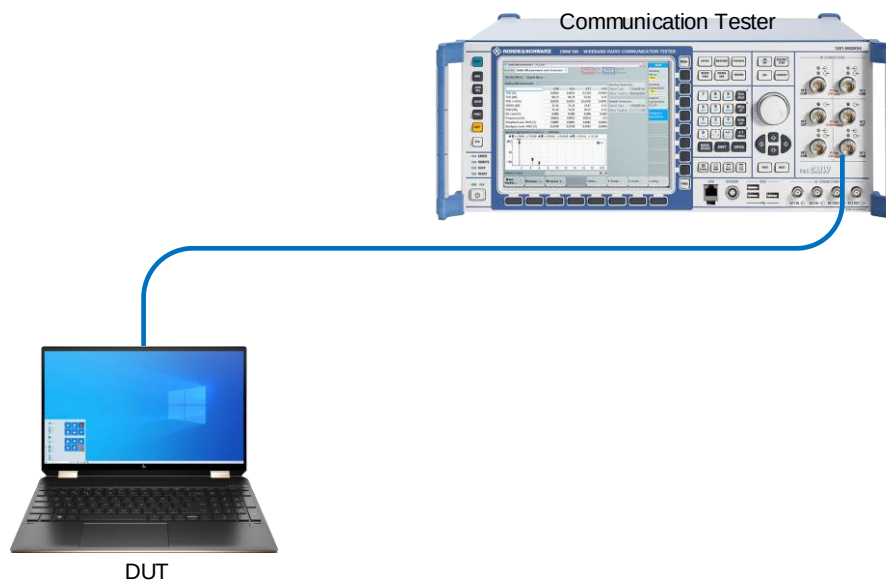
Annex A. Test & System description

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 Taroko P200G. 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 .020994.23.90.0 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	± 1.79	dB

Annex B. Test Results

The herein test results were performed by:

Test case measurement	Test Personnel
G-Sensor functionality	Estelle GILLES

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.
Lid close	0	16.84	16.52	Tablet	200	14.78	15.97
Notebook	10	16.84	16.52	Tablet	195	14.78	15.97
Notebook	5	16.84	16.52	Notebook	190	14.78	15.97
Lid close	0	16.84	16.52	Tablet	191	14.78	15.97
Notebook	1	16.84	16.52	Tablet	192	14.78	15.97
Notebook	2	16.84	16.52	Tablet	193	14.78	15.97
Notebook	3	16.84	16.52	Tablet	194	14.78	15.97
Notebook	4	16.84	16.52	Tablet	195	14.78	15.97
Notebook	5	16.84	16.52	Tablet	200	14.78	15.97
Notebook	10	16.84	16.52	Tablet	210	14.78	15.97
Notebook	20	16.84	16.52	Tablet	220	14.78	15.97
Notebook	30	16.84	16.52	Tablet	230	14.78	15.97
Notebook	40	16.84	16.52	Tablet	240	14.78	15.97
Notebook	50	16.84	16.52	Tablet	250	14.78	15.97
Notebook	60	16.84	16.52	Tablet	260	14.78	15.97
Notebook	70	16.84	16.52	Tablet	270	14.78	15.97
Notebook	80	16.84	16.52	Tablet	280	14.78	15.97
Notebook	90	16.84	16.52	Tablet	290	14.78	15.97
Notebook	100	16.84	16.52	Tablet	300	14.78	15.97
Notebook	110	16.84	16.52	Tablet	310	14.78	15.97
Notebook	120	16.84	16.52	Tablet	320	14.78	15.97
Notebook	130	16.84	16.52	Tablet	330	14.78	15.97
Notebook	140	16.84	16.52	Tablet	340	14.78	15.97
Notebook	135	16.84	16.52	Tablet	350	14.78	15.97
Notebook	130	16.84	16.52	Tablet	360	14.78	15.97
Notebook	131	16.84	16.52				
Notebook	132	16.84	16.52				
Notebook	133	16.84	16.52				
Notebook	134	16.84	16.52				
Notebook	135	16.84	16.52				
Notebook	136	16.84	16.52				
Notebook	137	16.84	16.52				
Notebook	138	16.84	16.52				
Notebook	138	16.84	16.52				
Notebook	140	16.84	16.52				
Notebook	150	16.84	16.52				
Notebook	160	16.84	16.52				
Notebook	180	16.84	16.52				
Notebook	190	16.84	16.52				

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	14.78	15.97
Tablet	350	14.78	15.97
Tablet	340	14.78	15.97
Tablet	330	14.78	15.97
Tablet	340	14.78	15.97
Tablet	330	14.78	15.97
Tablet	320	14.78	15.97
Tablet	310	14.78	15.97
Tablet	300	14.78	15.97
Tablet	290	14.78	15.97
Tablet	280	14.78	15.97
Tablet	270	14.78	15.97
Tablet	260	14.78	15.97
Tablet	250	14.78	15.97
Tablet	240	14.78	15.97
Tablet	230	14.78	15.97
Tablet	220	14.78	15.97
Tablet	210	14.78	15.97
Tablet	200	14.78	15.97
Notebook	190	16.84	16.52
Tablet	195	14.78	15.97
Tablet	194	14.78	15.97
Tablet	193	14.78	15.97
Tablet	192	14.78	15.97
Tablet	191	14.78	15.97
Notebook	190	16.84	16.52

Device Mode	Angle (°)	Meas. Power (dBm) 2.4GHz Ch6 Aux (1) Ant.	Meas. Power (dBm) 2.4GHz Ch6 Main (2) Ant.
Notebook	180	16.84	16.52
Notebook	170	16.84	16.52
Notebook	160	16.84	16.52
Notebook	150	16.84	16.52
Notebook	140	16.84	16.52
Notebook	130	16.84	16.52
Notebook	120	16.84	16.52
Notebook	125	16.84	16.52
Notebook	130	16.84	16.52
Notebook	120	16.84	16.52
Notebook	110	16.84	16.52
Notebook	100	16.84	16.52
Notebook	90	16.84	16.52
Notebook	80	16.84	16.52
Notebook	70	16.84	16.52
Notebook	60	16.84	16.52
Notebook	50	16.84	16.52
Notebook	40	16.84	16.52
Notebook	30	16.84	16.52
Notebook	20	16.84	16.52
Notebook	10	16.84	16.52
Lid close	0	16.84	16.52
Notebook	5	16.84	16.52
Notebook	4	16.84	16.52
Notebook	3	16.84	16.52
Notebook	2	16.84	16.52
Notebook	1	16.84	16.52
Lid close	0	16.84	16.52

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.
Lid close	0	14.30	14.59	Tablet	200	11.70	10.94
Notebook	10	14.30	14.59	Tablet	195	11.70	10.94
Notebook	5	14.30	14.59	Notebook	190	14.30	14.59
Lid close	0	14.30	14.59	Tablet	191	11.70	10.94
Notebook	1	14.30	14.59	Tablet	192	11.70	10.94
Notebook	2	14.30	14.59	Tablet	193	11.70	10.94
Notebook	3	14.30	14.59	Tablet	194	11.70	10.94
Notebook	4	14.30	14.59	Tablet	195	11.70	10.94
Notebook	5	14.30	14.59	Tablet	200	11.70	10.94
Notebook	10	14.30	14.59	Tablet	210	11.70	10.94
Notebook	20	14.30	14.59	Tablet	220	11.70	10.94
Notebook	30	14.30	14.59	Tablet	230	11.70	10.94
Notebook	40	14.30	14.59	Tablet	240	11.70	10.94
Notebook	50	14.30	14.59	Tablet	250	11.70	10.94
Notebook	60	14.30	14.59	Tablet	260	11.70	10.94
Notebook	70	14.30	14.59	Tablet	270	11.70	10.94
Notebook	80	14.30	14.59	Tablet	280	11.70	10.94
Notebook	90	14.30	14.59	Tablet	290	11.70	10.94
Notebook	100	14.30	14.59	Tablet	300	11.70	10.94
Notebook	110	14.30	14.59	Tablet	310	11.70	10.94
Notebook	120	14.30	14.59	Tablet	320	11.70	10.94
Notebook	130	14.30	14.59	Tablet	330	11.70	10.94
Notebook	140	14.30	14.59	Tablet	340	11.70	10.94
Notebook	135	14.30	14.59	Tablet	350	11.70	10.94
Notebook	130	14.30	14.59	Tablet	360	11.70	10.94
Notebook	131	14.30	14.59				
Notebook	132	14.30	14.59				
Notebook	133	14.30	14.59				
Notebook	134	14.30	14.59				
Notebook	135	14.30	14.59				
Notebook	136	14.30	14.59				
Notebook	137	14.30	14.59				
Notebook	138	14.30	14.59				
Notebook	138	14.30	14.59				
Notebook	140	14.30	14.59				
Notebook	150	14.30	14.59				
Notebook	160	14.30	14.59				
Notebook	180	14.30	14.59				
Notebook	190	14.30	14.59				

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	11.70	10.94
Tablet	350	11.70	10.94
Tablet	340	11.70	10.94
Tablet	330	11.70	10.94
Tablet	340	11.70	10.94
Tablet	330	11.70	10.94
Tablet	320	11.70	10.94
Tablet	310	11.70	10.94
Tablet	300	11.70	10.94
Tablet	290	11.70	10.94
Tablet	280	11.70	10.94
Tablet	270	11.70	10.94
Tablet	260	11.70	10.94
Tablet	250	11.70	10.94
Tablet	240	11.70	10.94
Tablet	230	11.70	10.94
Tablet	220	11.70	10.94
Tablet	210	11.70	10.94
Tablet	200	11.70	10.94
Notebook	190	14.30	14.59
Tablet	195	11.70	10.94
Tablet	194	11.70	10.94
Tablet	193	11.70	10.94
Tablet	192	11.70	10.94
Tablet	191	11.70	10.94
Notebook	190	14.30	14.59

Device Mode	Angle (°)	Meas. Power (dBm) 5GHz Ch120 Aux (1) Ant.	Meas. Power (dBm) 5GHz Ch120 Main (2) Ant.
Notebook	180	14.30	14.59
Notebook	170	14.30	14.59
Notebook	160	14.30	14.59
Notebook	150	14.30	14.59
Notebook	140	14.30	14.59
Notebook	130	14.30	14.59
Notebook	120	14.30	14.59
Notebook	125	14.30	14.59
Notebook	130	14.30	14.59
Notebook	120	14.30	14.59
Notebook	110	14.30	14.59
Notebook	100	14.30	14.59
Notebook	90	14.30	14.59
Notebook	80	14.30	14.59
Notebook	70	14.30	14.59
Notebook	60	14.30	14.59
Notebook	50	14.30	14.59
Notebook	40	14.30	14.59
Notebook	30	14.30	14.59
Notebook	20	14.30	14.59
Notebook	10	14.30	14.59
Lid close	0	14.30	14.59
Notebook	5	14.30	14.59
Notebook	4	14.30	14.59
Notebook	3	14.30	14.59
Notebook	2	14.30	14.59
Notebook	1	14.30	14.59
Lid close	0	14.30	14.59

End of the report

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