

TEST REPORT

EUT Description	Convertible PC
Brand Name	HP
Model Name	TPN-W164
FCC ID	PD9AX211NG
ISED ID	1000M-AX211NG
Date of Test Start/End	2024-11-26 / 2024-11-26
Features	2x2 Wi-Fi- Bluetooth® (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	240816-02.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	4
5. EUT Features	4
6. Remarks and comments	4
7. Test Results summary.....	5
7.1. WLAN TX POWER TABLE SUMMARY	5
8. Document Revision History	6
Annex A. Test & System description	7
A.1 TEST SETUP	7
A.2 PROCEDURE	7
A.3 TEST EQUIPMENT LIST.....	8
A.4 MEASUREMENT UNCERTAINTY EVALUATION.....	8
Annex B. Test Results	9
B.1 TRIGGER LID ANGLE DETECTION AND POWER VERIFICATION 2.4GHZ	10
B.1.1 LCD DIRECTION 0°	10
B.1.2 LCD DIRECTION 180°	12
B.1.3 LCD DIRECTION 90° OR 270°	13
B.2 TRIGGER LID ANGLE DETECTION AND POWER VERIFICATION 5GHZ	14
B.2.1 LCD DIRECTION 0°	14
B.2.2 LCD DIRECTION 180°	16
B.2.3 LCD DIRECTION 90° OR 270°	17

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: 21,36°C Min: 20,59°C Max: 21,98°C
Humidity	AVG: 51,70%rh Min: 44,70%rh Max: 57,43%rh

4. Test Sample

Sample	ID #	Description	Model	Serial #	Note
#1	240816-02.S05	Convertible PC	TPN-W164	ABC439018Y	-

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	HP	
Model Name	TPN-W164	
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	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	$0^{\circ} \leq \varphi \leq 34^{\circ}$	-	18.5	18.5	17.3	17.4	17.0	17.0	16.0	15.3
Notebook	$35^{\circ} \leq \varphi \leq 159^{\circ}$	0°	20.5	20.5	19.0	19.1	20.5	20.5	19.2	18.6
Stand	$201^{\circ} \leq \varphi \leq 340^{\circ}$	0°	20.5	20.5	19.0	19.1	20.5	20.5	19.2	18.6
Tent	$201^{\circ} \leq \varphi \leq 340^{\circ}$	180°	18.5	18.5	17.3	17.4	17.0	17.0	16.0	15.3
Tablet	$160^{\circ} \leq \varphi \leq 360^{\circ}$	0°	18.5	18.5	17.3	17.4	17.0	17.0	16.0	15.3
Book	$35^{\circ} \leq \varphi \leq 200^{\circ}$	90° or 270°	18.5	18.5	17.3	17.4	17.0	17.0	16.0	15.3

8. Document Revision History

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

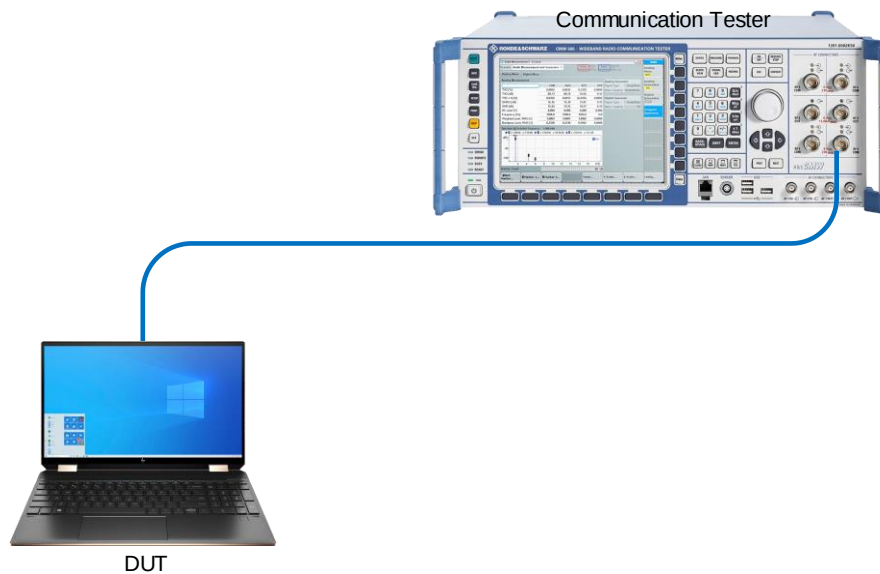
Annex A. Test & System description

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 HP model TPN-W164. 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 01908.23.70.0 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 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.
Lid close	0	17.3	17.4
Lid close	10	17.3	17.4
Lid close	20	17.3	17.4
Lid close	30	17.3	17.4
Notebook	40	19.0	19.1
Notebook	35	19.0	19.1
Lid close	30	17.3	17.4
Lid close	31	17.3	17.4
Lid close	32	17.3	17.4
Lid close	33	17.3	17.4
Lid close	34	17.3	17.4
Notebook	35	19.0	19.1
Notebook	36	19.0	19.1
Notebook	37	19.0	19.1
Notebook	38	19.0	19.1
Notebook	39	19.0	19.1
Notebook	40	19.0	19.1
Notebook	50	19.0	19.1
Notebook	60	19.0	19.1
Notebook	70	19.0	19.1
Notebook	80	19.0	19.1
Notebook	90	19.0	19.1
Notebook	100	19.0	19.1
Notebook	110	19.0	19.1
Notebook	120	19.0	19.1
Notebook	130	19.0	19.1
Notebook	140	19.0	19.1
Notebook	150	19.0	19.1
Tablet	160	17.3	17.4
Notebook	155	19.0	19.1
Notebook	156	19.0	19.1
Notebook	157	19.0	19.1
Notebook	158	19.0	19.1
Notebook	159	19.0	19.1
Tablet	160	17.3	17.4
Tablet	180	17.3	17.4
Tablet	190	17.3	17.4
Tablet	200	17.3	17.4

Device Mode	Angle (°)	Meas. Power (dBm) 2.4GHz Ch6 Aux (1) Ant.	Meas. Power (dBm) 2.4GHz Ch6 Main (2) Ant.
Stand	210	19.0	19.1
Stand	205	19.0	19.1
Tablet	200	17.3	17.4
Stand	201	19.0	19.1
Stand	202	19.0	19.1
Stand	203	19.0	19.1
Stand	204	19.0	19.1
Stand	205	19.0	19.1
Stand	206	19.0	19.1
Stand	207	19.0	19.1
Stand	208	19.0	19.1
Stand	209	19.0	19.1
Stand	210	19.0	19.1
Stand	211	19.0	19.1
Stand	220	19.0	19.1
Stand	230	19.0	19.1
Stand	240	19.0	19.1
Stand	250	19.0	19.1
Stand	260	19.0	19.1
Stand	270	19.0	19.1
Stand	280	19.0	19.1
Stand	290	19.0	19.1
Stand	300	19.0	19.1
Stand	310	19.0	19.1
Stand	320	19.0	19.1
Stand	330	19.0	19.1
Stand	340	19.0	19.1
Tablet	350	17.3	17.4
Tablet	345	17.3	17.4
Stand	340	19.0	19.1
Tablet	341	17.3	17.4
Tablet	342	17.3	17.4
Tablet	343	17.3	17.4
Tablet	344	17.3	17.4
Tablet	345	17.3	17.4
Tablet	346	17.3	17.4
Tablet	347	17.3	17.4
Tablet	348	17.3	17.4
Tablet	349	17.3	17.4
Tablet	350	17.3	17.4
Tablet	360	17.3	17.4

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	17.3	17.4
Tablet	350	17.3	17.4
Stand	340	19.0	19.1
Tablet	345	17.3	17.4
Tablet	344	17.3	17.4
Tablet	343	17.3	17.4
Tablet	342	17.3	17.4
Tablet	341	17.3	17.4
Stand	340	19.0	19.1
Stand	330	19.0	19.1
Stand	320	19.0	19.1
Stand	310	19.0	19.1
Stand	300	19.0	19.1
Stand	290	19.0	19.1
Stand	280	19.0	19.1
Stand	270	19.0	19.1
Stand	260	19.0	19.1
Stand	250	19.0	19.1
Stand	240	19.0	19.1
Stand	230	19.0	19.1
Stand	220	19.0	19.1
Stand	210	19.0	19.1
Tablet	200	17.3	17.4
Stand	205	19.0	19.1
Stand	204	19.0	19.1
Stand	203	19.0	19.1
Stand	202	19.0	19.1
Stand	201	19.0	19.1
Tablet	200	17.3	17.4
Tablet	190	17.3	17.4
Tablet	180	17.3	17.4
Tablet	170	17.3	17.4
Tablet	160	17.3	17.4

Device Mode	Angle (°)	Meas. Power (dBm) 2.4GHz Ch6 Aux (1) Ant.	Meas. Power (dBm) 2.4GHz Ch6 Main (2) Ant.
Notebook	150	19.0	19.1
Notebook	155	19.0	19.1
Tablet	160	17.3	17.4
Notebook	159	19.0	19.1
Notebook	158	19.0	19.1
Notebook	157	19.0	19.1
Notebook	156	19.0	19.1
Notebook	155	19.0	19.1
Notebook	154	19.0	19.1
Notebook	153	19.0	19.1
Notebook	152	19.0	19.1
Notebook	151	19.0	19.1
Notebook	150	19.0	19.1
Notebook	140	19.0	19.1
Notebook	130	19.0	19.1
Notebook	120	19.0	19.1
Notebook	110	19.0	19.1
Notebook	100	19.0	19.1
Notebook	90	19.0	19.1
Notebook	80	19.0	19.1
Notebook	70	19.0	19.1
Notebook	60	19.0	19.1
Notebook	50	19.0	19.1
Notebook	40	19.0	19.1
Lid close	30	17.3	17.4
Notebook	35	19.0	19.1
Lid close	34	17.3	17.4
Lid close	33	17.3	17.4
Lid close	32	17.3	17.4
Lid close	31	17.3	17.4
Lid close	30	17.3	17.4
Lid close	20	17.3	17.4
Lid close	10	17.3	17.4
Lid close	0	17.3	17.4

B.1.2 LCD direction 180°

The lid is rotating from 200° to 360°. The screen is vertical, LCD direction to 180°.

Device Mode	Angle (°)	Meas. Power (dBm) 2.4GHz Ch6 Aux (1) Ant.	Meas. Power (dBm) 2.4GHz Ch6 Main (2) Ant.
Tablet	200	17.3	17.4
Tent	210	17.3	17.4
Tent	205	17.3	17.4
Tablet	200	17.3	17.4
Tent	201	17.3	17.4
Tent	202	17.3	17.4
Tent	203	17.3	17.4
Tent	204	17.3	17.4
Tent	205	17.3	17.4
Tent	206	17.3	17.4
Tent	207	17.3	17.4
Tent	208	17.3	17.4
Tent	209	17.3	17.4
Tent	210	17.3	17.4
Tent	220	17.3	17.4
Tent	230	17.3	17.4
Tent	240	17.3	17.4
Tent	250	17.3	17.4
Tent	260	17.3	17.4
Tent	270	17.3	17.4
Tent	280	17.3	17.4
Tent	290	17.3	17.4
Tent	300	17.3	17.4
Tent	310	17.3	17.4
Tent	320	17.3	17.4
Tent	330	17.3	17.4
Tent	340	17.3	17.4
Tablet	350	17.3	17.4
Tablet	345	17.3	17.4
Tent	340	17.3	17.4
Tablet	341	17.3	17.4
Tablet	342	17.3	17.4
Tablet	343	17.3	17.4
Tablet	344	17.3	17.4
Tablet	345	17.3	17.4
Tablet	346	17.3	17.4
Tablet	347	17.3	17.4
Tablet	348	17.3	17.4
Tablet	349	17.3	17.4
Tablet	350	17.3	17.4
Tablet	360	17.3	17.4

The lid is rotating from 360° to 180°. The screen is vertical, LCD direction to 180°.

Device Mode	Angle (°)	Meas. Power (dBm) 2.4GHz Ch6 Aux (1) Ant.	Meas. Power (dBm) 2.4GHz Ch6 Main (2) Ant.
Tablet	360	17.3	17.4
Tablet	350	17.3	17.4
Tent	340	17.3	17.4
Tablet	345	17.3	17.4
Tent	340	17.3	17.4
Tablet	349	17.3	17.4
Tablet	348	17.3	17.4
Tablet	347	17.3	17.4
Tablet	346	17.3	17.4
Tablet	345	17.3	17.4
Tablet	344	17.3	17.4
Tablet	343	17.3	17.4
Tablet	342	17.3	17.4
Tablet	341	17.3	17.4
Tent	340	17.3	17.4
Tent	330	17.3	17.4
Tent	320	17.3	17.4
Tent	310	17.3	17.4
Tent	300	17.3	17.4
Tent	290	17.3	17.4
Tent	280	17.3	17.4
Tent	270	17.3	17.4
Tent	260	17.3	17.4
Tent	250	17.3	17.4
Tent	240	17.3	17.4
Tent	230	17.3	17.4
Tent	220	17.3	17.4
Tent	210	17.3	17.4
Tablet	200	17.3	17.4
Tent	205	17.3	17.4
Tent	204	17.3	17.4
Tent	203	17.3	17.4
Tent	202	17.3	17.4
Tent	201	17.3	17.4
Tablet	200	17.3	17.4

B.1.3 LCD direction 90° or 270°

The lid is rotating from 0° to 200°. The screen is vertical, LCD direction to 90° or 270°.

Device Mode	Angle (°)	Meas. Power (dBm) 2.4GHz Channel 6 Aux (1) Ant.	Meas. Power (dBm) 2.4GHz Channel 6 Main (2) Ant.
Lid close	0	17.3	17.4
Lid close	10	17.3	17.4
Lid close	20	17.3	17.4
Lid close	30	17.3	17.4
Book	40	17.3	17.4
Book	35	17.3	17.4
Lid close	30	17.3	17.4
Lid close	31	17.3	17.4
Lid close	32	17.3	17.4
Lid close	33	17.3	17.4
Lid close	34	17.3	17.4
Book	35	17.3	17.4
Book	36	17.3	17.4
Book	37	17.3	17.4
Book	38	17.3	17.4
Book	39	17.3	17.4
Book	40	17.3	17.4
Book	50	17.3	17.4
Book	60	17.3	17.4
Book	70	17.3	17.4
Book	80	17.3	17.4
Book	90	17.3	17.4
Book	100	17.3	17.4
Book	110	17.3	17.4
Book	120	17.3	17.4
Book	130	17.3	17.4
Book	140	17.3	17.4
Book	150	17.3	17.4
Book	160	17.3	17.4
Book	170	17.3	17.4
Book	180	17.3	17.4
Book	190	17.3	17.4
Tablet	200	17.3	17.4
Book	195	17.3	17.4
Book	196	17.3	17.4
Book	197	17.3	17.4
Book	198	17.3	17.4
Book	199	17.3	17.4
Tablet	200	17.3	17.4

The lid is rotating from 200° to 0°. The screen is vertical, LCD direction to 90° or 270°.

Device Mode	Angle (°)	Meas. Power (dBm) 2.4GHz Channel 6 Aux (1) Ant.	Meas. Power (dBm) 2.4GHz Channel 6 Main (2) Ant.
Tablet	200	17.3	17.4
Book	190	17.3	17.4
Book	195	17.3	17.4
Tablet	200	17.3	17.4
Book	199	17.3	17.4
Book	198	17.3	17.4
Book	197	17.3	17.4
Book	196	17.3	17.4
Book	195	17.3	17.4
Book	194	17.3	17.4
Book	193	17.3	17.4
Book	192	17.3	17.4
Book	191	17.3	17.4
Book	190	17.3	17.4
Book	180	17.3	17.4
Book	170	17.3	17.4
Book	160	17.3	17.4
Book	150	17.3	17.4
Book	140	17.3	17.4
Book	130	17.3	17.4
Book	120	17.3	17.4
Book	110	17.3	17.4
Book	100	17.3	17.4
Book	90	17.3	17.4
Book	80	17.3	17.4
Book	70	17.3	17.4
Book	60	17.3	17.4
Book	50	17.3	17.4
Book	40	17.3	17.4
Lid close	30	17.3	17.4
Book	35	17.3	17.4
Lid close	34	17.3	17.4
Lid close	32	17.3	17.4
Lid close	31	17.3	17.4
Lid close	30	17.3	17.4
Lid close	29	17.3	17.4
Lid close	20	17.3	17.4
Lid close	10	17.3	17.4
Lid close	0	17.3	17.4

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	16.0	15.3	Stand	210	19.2	18.6
Lid close	10	16.0	15.3	Stand	205	19.2	18.6
Lid close	20	16.0	15.3	Tablet	200	16.0	15.3
Lid close	30	16.0	15.3	Stand	201	19.2	18.6
Notebook	40	19.2	18.6	Stand	202	19.2	18.6
Notebook	35	19.2	18.6	Stand	203	19.2	18.6
Lid close	30	16.0	15.3	Stand	204	19.2	18.6
Lid close	31	16.0	15.3	Stand	205	19.2	18.6
Lid close	32	16.0	15.3	Stand	206	19.2	18.6
Lid close	33	16.0	15.3	Stand	207	19.2	18.6
Lid close	34	16.0	15.3	Stand	208	19.2	18.6
Notebook	35	19.2	18.6	Stand	209	19.2	18.6
Notebook	36	19.2	18.6	Stand	210	19.2	18.6
Notebook	37	19.2	18.6	Stand	211	19.2	18.6
Notebook	38	19.2	18.6	Stand	220	19.2	18.6
Notebook	39	19.2	18.6	Stand	230	19.2	18.6
Notebook	40	19.2	18.6	Stand	240	19.2	18.6
Notebook	50	19.2	18.6	Stand	250	19.2	18.6
Notebook	60	19.2	18.6	Stand	260	19.2	18.6
Notebook	70	19.2	18.6	Stand	270	19.2	18.6
Notebook	80	19.2	18.6	Stand	280	19.2	18.6
Notebook	90	19.2	18.6	Stand	290	19.2	18.6
Notebook	100	19.2	18.6	Stand	300	19.2	18.6
Notebook	110	19.2	18.6	Stand	310	19.2	18.6
Notebook	120	19.2	18.6	Stand	320	19.2	18.6
Notebook	130	19.2	18.6	Stand	330	19.2	18.6
Notebook	140	19.2	18.6	Stand	340	19.2	18.6
Notebook	150	19.2	18.6	Tablet	350	16.0	15.3
Tablet	160	16.0	15.3	Tablet	345	16.0	15.3
Notebook	155	19.2	18.6	Stand	340	19.2	18.6
Notebook	156	19.2	18.6	Tablet	341	16.0	15.3
Notebook	157	19.2	18.6	Tablet	342	16.0	15.3
Notebook	158	19.2	18.6	Tablet	343	16.0	15.3
Notebook	159	19.2	18.6	Tablet	344	16.0	15.3
Tablet	160	16.0	15.3	Tablet	345	16.0	15.3
Tablet	180	16.0	15.3	Tablet	346	16.0	15.3
Tablet	190	16.0	15.3	Tablet	347	16.0	15.3
Tablet	200	16.0	15.3	Tablet	348	16.0	15.3
				Tablet	349	16.0	15.3
				Tablet	350	16.0	15.3
				Tablet	360	16.0	15.3

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	16.0	15.3
Tablet	350	16.0	15.3
Stand	340	19.2	18.6
Tablet	345	16.0	15.3
Tablet	344	16.0	15.3
Tablet	343	16.0	15.3
Tablet	342	16.0	15.3
Tablet	341	16.0	15.3
Stand	340	19.2	18.6
Stand	330	19.2	18.6
Stand	320	19.2	18.6
Stand	310	19.2	18.6
Stand	300	19.2	18.6
Stand	290	19.2	18.6
Stand	280	19.2	18.6
Stand	270	19.2	18.6
Stand	260	19.2	18.6
Stand	250	19.2	18.6
Stand	240	19.2	18.6
Stand	230	19.2	18.6
Stand	220	19.2	18.6
Stand	210	19.2	18.6
Tablet	200	16.0	15.3
Stand	205	19.2	18.6
Stand	204	19.2	18.6
Stand	203	19.2	18.6
Stand	202	19.2	18.6
Stand	201	19.2	18.6
Tablet	200	16.0	15.3
Tablet	190	16.0	15.3
Tablet	180	16.0	15.3
Tablet	170	16.0	15.3
Tablet	160	16.0	15.3

Device Mode	Angle (°)	Meas. Power (dBm) 5GHz Ch120 Aux (1) Ant.	Meas. Power (dBm) 5GHz Ch120 Main (2) Ant.
Notebook	150	19.2	18.6
Notebook	155	19.2	18.6
Tablet	160	16.0	15.3
Notebook	159	19.2	18.6
Notebook	158	19.2	18.6
Notebook	157	19.2	18.6
Notebook	156	19.2	18.6
Notebook	155	19.2	18.6
Notebook	154	19.2	18.6
Notebook	153	19.2	18.6
Notebook	152	19.2	18.6
Notebook	151	19.2	18.6
Notebook	150	19.2	18.6
Notebook	140	19.2	18.6
Notebook	130	19.2	18.6
Notebook	120	19.2	18.6
Notebook	110	19.2	18.6
Notebook	100	19.2	18.6
Notebook	90	19.2	18.6
Notebook	80	19.2	18.6
Notebook	70	19.2	18.6
Notebook	60	19.2	18.6
Notebook	50	19.2	18.6
Notebook	40	19.2	18.6
Lid close	30	16.0	15.3
Notebook	35	19.2	18.6
Lid close	34	16.0	15.3
Lid close	33	16.0	15.3
Lid close	32	16.0	15.3
Lid close	31	16.0	15.3
Lid close	30	16.0	15.3
Lid close	20	16.0	15.3
Lid close	10	16.0	15.3
Lid close	0	16.0	15.3

B.2.2 LCD direction 180°

The lid is rotating from 200° to 360°. The screen is vertical, LCD direction to 180°.

Device Mode	Angle (°)	Meas. Power (dBm) 5GHz Ch120 Aux (1) Ant.	Meas. Power (dBm) 5GHz Ch120 Main (2) Ant.
Tablet	200	16.0	15.3
Tent	210	16.0	15.3
Tent	205	16.0	15.3
Tablet	200	16.0	15.3
Tent	201	16.0	15.3
Tent	202	16.0	15.3
Tent	203	16.0	15.3
Tent	204	16.0	15.3
Tent	205	16.0	15.3
Tent	206	16.0	15.3
Tent	207	16.0	15.3
Tent	208	16.0	15.3
Tent	209	16.0	15.3
Tent	210	16.0	15.3
Tent	220	16.0	15.3
Tent	230	16.0	15.3
Tent	240	16.0	15.3
Tent	250	16.0	15.3
Tent	260	16.0	15.3
Tent	270	16.0	15.3
Tent	280	16.0	15.3
Tent	290	16.0	15.3
Tent	300	16.0	15.3
Tent	310	16.0	15.3
Tent	320	16.0	15.3
Tent	330	16.0	15.3
Tent	340	16.0	15.3
Tablet	350	16.0	15.3
Tablet	345	16.0	15.3
Tent	340	16.0	15.3
Tablet	341	16.0	15.3
Tablet	342	16.0	15.3
Tablet	343	16.0	15.3
Tablet	344	16.0	15.3
Tablet	345	16.0	15.3
Tablet	346	16.0	15.3
Tablet	347	16.0	15.3
Tablet	348	16.0	15.3
Tablet	349	16.0	15.3
Tablet	350	16.0	15.3
Tablet	360	16.0	15.3

The lid is rotating from 360° to 200°. The screen is vertical, LCD direction to 180°.

Device Mode	Angle (°)	Meas. Power (dBm) 5GHz Ch120 Aux (1) Ant.	Meas. Power (dBm) 5GHz Ch120 Main (2) Ant.
Tablet	360	16.0	15.3
Tablet	350	16.0	15.3
Tent	340	16.0	15.3
Tablet	345	16.0	15.3
Tent	340	16.0	15.3
Tablet	349	16.0	15.3
Tablet	348	16.0	15.3
Tablet	347	16.0	15.3
Tablet	346	16.0	15.3
Tablet	345	16.0	15.3
Tablet	344	16.0	15.3
Tablet	343	16.0	15.3
Tablet	342	16.0	15.3
Tablet	341	16.0	15.3
Tent	340	16.0	15.3
Tent	330	16.0	15.3
Tent	320	16.0	15.3
Tent	310	16.0	15.3
Tent	300	16.0	15.3
Tent	290	16.0	15.3
Tent	280	16.0	15.3
Tent	270	16.0	15.3
Tent	260	16.0	15.3
Tent	250	16.0	15.3
Tent	240	16.0	15.3
Tent	230	16.0	15.3
Tent	220	16.0	15.3
Tent	210	16.0	15.3
Tablet	200	16.0	15.3
Tent	205	16.0	15.3
Tent	204	16.0	15.3
Tent	203	16.0	15.3
Tent	202	16.0	15.3
Tent	201	16.0	15.3
Tablet	200	16.0	15.3

B.2.3 LCD direction 90° or 270°

The lid is rotating from 0° to 200°. The screen is vertical, LCD direction to 90° or 270°.

Device Mode	Angle (°)	Meas. Power (dBm) 5GHz Ch120 Aux (1) Ant.	Meas. Power (dBm) 5GHz Ch120 Main (2) Ant.
Lid close	0	16.0	15.3
Lid close	10	16.0	15.3
Lid close	20	16.0	15.3
Lid close	30	16.0	15.3
Book	40	16.0	15.3
Book	35	16.0	15.3
Lid close	30	16.0	15.3
Lid close	31	16.0	15.3
Lid close	32	16.0	15.3
Lid close	33	16.0	15.3
Lid close	34	16.0	15.3
Book	35	16.0	15.3
Book	36	16.0	15.3
Book	37	16.0	15.3
Book	38	16.0	15.3
Book	39	16.0	15.3
Book	40	16.0	15.3
Book	50	16.0	15.3
Book	60	16.0	15.3
Book	70	16.0	15.3
Book	80	16.0	15.3
Book	90	16.0	15.3
Book	100	16.0	15.3
Book	110	16.0	15.3
Book	120	16.0	15.3
Book	130	16.0	15.3
Book	140	16.0	15.3
Book	150	16.0	15.3
Book	160	16.0	15.3
Book	170	16.0	15.3
Book	180	16.0	15.3
Book	190	16.0	15.3
Tablet	200	16.0	15.3
Book	195	16.0	15.3
Book	196	16.0	15.3
Book	197	16.0	15.3
Book	198	16.0	15.3
Book	199	16.0	15.3
Tablet	200	16.0	15.3

The lid is rotating from 200° to 0°. The screen is vertical, LCD direction to 90° or 270°.

Device Mode	Angle (°)	Meas. Power (dBm) 5GHz Ch120 Aux (1) Ant.	Meas. Power (dBm) 5GHz Ch120 Main (2) Ant.
Tablet	200	16.0	15.3
Book	190	16.0	15.3
Book	195	16.0	15.3
Tablet	200	16.0	15.3
Book	199	16.0	15.3
Book	198	16.0	15.3
Book	197	16.0	15.3
Book	196	16.0	15.3
Book	195	16.0	15.3
Book	194	16.0	15.3
Book	193	16.0	15.3
Book	192	16.0	15.3
Book	191	16.0	15.3
Book	190	16.0	15.3
Book	180	16.0	15.3
Book	170	16.0	15.3
Book	160	16.0	15.3
Book	150	16.0	15.3
Book	140	16.0	15.3
Book	130	16.0	15.3
Book	120	16.0	15.3
Book	110	16.0	15.3
Book	100	16.0	15.3
Book	90	16.0	15.3
Book	80	16.0	15.3
Book	70	16.0	15.3
Book	60	16.0	15.3
Book	50	16.0	15.3
Book	40	16.0	15.3
Lid close	30	16.0	15.3
Book	35	16.0	15.3
Lid close	34	16.0	15.3
Lid close	32	16.0	15.3
Lid close	31	16.0	15.3
Lid close	30	16.0	15.3
Lid close	29	16.0	15.3
Lid close	20	16.0	15.3
Lid close	10	16.0	15.3
Lid close	0	16.0	15.3

End of the report

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