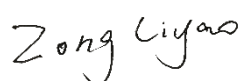


TEST REPORT

Applicant: Intel Corporation SAS
Address: 425 Rue de Goa – Le Cargo B6 – 06600 Antibes, FRANCE
Equipment Type: Convertible PC
Model Name: BE201D2W
Brand Name: N/A
FCC ID: PD9BE201D2
ISED Number: 1000M-BE201D2
Test Standard: KDB 388624 D02 v18
RSS-102 Issue 6
Sample Arrival Date: Jan. 08, 2025
Test Date: Jan. 09, 2025
Date of Issue: Jan. 20, 2025

ISSUED BY:

Shenzhen BALUN Technology Co., Ltd.

Tested by: Xu Rui**Checked by:** Zong Liyao**Approved by:** Tolan Tu
(Testing Director)

Revision History

<u>Version</u>	<u>Issue Date</u>	<u>Revisions Content</u>
<u>Rev. 01</u>	<u>Jan. 20, 2025</u>	<u>Initial Issue</u>

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1 GENERAL INFORMATION

1.1 Test Laboratory

Name	Shenzhen BALUN Technology Co., Ltd.
Address	Block B, 1/F, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China
Phone Number	+86 755 6685 0100

1.2 Test Location

Name	Shenzhen BALUN Technology Co., Ltd.
Location	☐ Block B, 1/F, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China
	☒ 1/F, Building B, Ganghongji High-tech Intelligent Industrial Park, No. 1008, Songbai Road, Yangguang Community, Xili Sub-district, Nanshan District, Shenzhen, Guangdong Province, P. R. China
Accreditation Certificate	The laboratory is a testing organization accredited by FCC as a accredited testing laboratory. The designation number is CN1196. The laboratory is a testing organization accredited by ISED as a accredited testing laboratory. The company number is 11524A and CAB identifier number is CN0030.

1.3 Test Environment Condition

Ambient Temperature	18°C to 25°C
Ambient Relative Humidity	30% to 70%

2 PRODUCT INFORMATION

2.1 Applicant Information

Applicant	Intel Corporation SAS
Address	425 Rue de Goa – Le Cargo B6 – 06600 Antibes, FRANCE

2.2 Manufacturer Information

Manufacturer	Intel Corporation SAS
Address	425 Rue de Goa – Le Cargo B6 – 06600 Antibes, FRANCE

2.3 General Description for Equipment under Test (EUT)

EUT Name	Convertible PC
Model Name Under Test	BE201D2W
Series Model Name	N/A
Description of Model name differentiation	N/A
Hardware Version	N/A
Software Version	N/A
Dimensions (Approx.)	N/A
Weight (Approx.)	N/A

2.3.1 Host Information:

Product Name	Notebook Computer
Model Name	Yoga Book 9 14IAH10
Brand Name	Lenovo

2.4 Ancillary Equipment

Note: Not applicable.

2.5 Technical Information

Network and Wireless connectivity	Bluetooth (BR+EDR+BLE) WIFI 802.11a, 802.11b, 802.11g, 802.11n, VHT, 802.11ac, 802.11ax and 802.11be
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The requirement for the following technical information of the EUT was tested in this report:

Operating Mode	2.4G WLAN; 5G WLAN; 6G WLAN; Bluetooth	
Frequency Range	802.11b/g	2412 ~ 2472 MHz
	VHT20/VHT40	2412 ~ 2472 MHz
	802.11ax(HE20/HE40)	2412 ~ 2472 MHz
	802.11be(EHT20/EHT40)	2412 ~ 2472 MHz
	802.11a	5150 ~ 5250 MHz
		5250 ~ 5350 MHz
		5470 ~ 5725 MHz
		5725 ~ 5850 MHz
		5815 ~ 5885 MHz
	802.11n(HT20/HT40)	5150 ~ 5250 MHz
		5250 ~ 5350 MHz
		5470 ~ 5725 MHz
		5725 ~ 5850 MHz
		5815 ~ 5885 MHz
	802.11ac(VHT20/VHT40/VHT80)	5150 ~ 5250 MHz
		5250 ~ 5350 MHz
		5470 ~ 5725 MHz
		5725 ~ 5850 MHz
		5815 ~ 5885 MHz
	802.11ax(HE20/HE40/HE80)	5150 ~ 5250 MHz
		5250 ~ 5350 MHz
		5470 ~ 5725 MHz
		5725 ~ 5850 MHz
		5815 ~ 5885 MHz
	802.11be(EHT20/EHT40/EHT80)	5150 ~ 5250 MHz
		5250 ~ 5350 MHz
		5470 ~ 5725 MHz
		5725 ~ 5850 MHz
		5815 ~ 5885 MHz
	802.11ac(VHT160)/ 802.11ax(HE160)/ 802.11be(EHT160)	5150 ~ 5250 MHz
		5470 ~ 5725 MHz
		5815 ~ 5885 MHz
	802.11ax(HE20/HE40/HE80/ HE160/EHT320) 802.11be(EHT20/EHT40/EHT80/ EHT160/EHT320)	5925 ~ 6425 MHz
		6425 ~ 6525 MHz
		6525 ~ 6875 MHz
	Bluetooth	6875 ~ 7125 MHz
		2402 ~ 2480 MHz

Antenna Type	WLAN	PIFA
	Bluetooth	PIFA
Hotspot Function	N/A	
Exposure Category	General Population/Uncontrolled exposure	
Product Type	Portable Device	
EUT Type	☒ Production unit	☐ Identical prototype

2.6 Remarks and Comments

The test report is validation of the G sensor functionality.

3 SUMMARY OF TEST RESULT

3.1 Test Standards

No.	Identity	Document Title
1	KDB 388624 D02 v18	Pre-Approval Guidance List v18, PRE-APPROVAL GUIDANCE LIST
2	RSS-102 Issue 6	Radio Frequency (RF) Exposure Compliance of Radiocommunication Apparatus (All Frequency Bands)

3.2 Test Results Summary

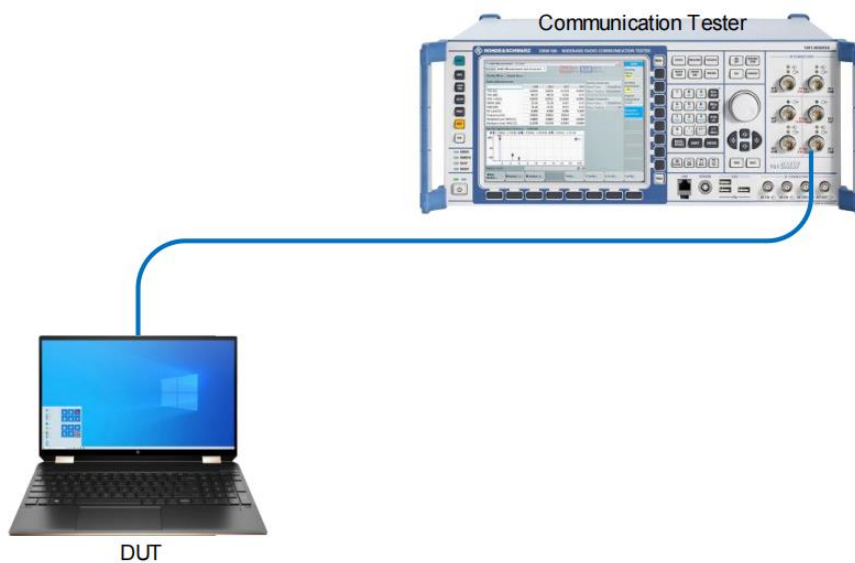
Device Mode	Lid Angle range	WLAN 2.4GHz (802.11b Channel 6)				WLAN 5GHz (802.11a Channel 120)			
		Tune-up Power (dBm)		Measured Power (dBm)		Tune-up Power (dBm)		Measured Power (dBm)	
		Main. Antenna	Aux. Antenna	Main. Antenna	Aux. Antenna	Main. Antenna	Aux. Antenna	Main. Antenna	Aux. Antenna
Laptop	0° - 359°	17	17	16.27	16.37	16	16	15.95	15.97
Tablet	360°	17	17.5	16.25	16.35	11	14	10.96	13.98

4 MEASUREMENT SYSTEM

4.1 Conducted Power Test Setup

The conducted power measurement test setup is described in the following and illustrated in below figure.

1. The DUT is convertible PC from Lenovo . The connectivity module is installed.
2. A control PC is used to configure the call box as an access point to manage the uplink and downlink data traffic.
3. Uplink signal power is measured with the Call Box.
4. Path loss in the power measurement setup from the wireless module antenna port to the Call Box.



4.2 G-Sensor Conducted Power Test 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.

5 TEST EQUIPMENTS LIST

Description	Manufacturer	Model	Serial No./Version	Cal. Date	Cal. Due
PC	Dell	N/A	N/A	N/A	N/A
Communication Tester	Rohde &Schwartz	CMW500	167190	2024/05/08	2025/05/07
RF Cable	N/A	N/A	N/A	N/A	N/A
Note: RF cable loss was verified before usage.					

ANNEX A CONDUCTED POWER TEST RESULT

A.1 Trigger lid angle detection and power verification 2.4GHz

A.1.1 The lid is rotating from 0° to 360°

Mode	Angle (degrees)	Measured Power	
		2.4GHz 802.11b Ch6	
		(dBm)	
		Main	Aux.
Laptop	0	16.24	16.30
	10	16.25	16.30
	20	16.20	16.29
	30	16.18	16.33
	40	16.18	16.30
	50	16.17	16.31
	60	16.26	16.31
	70	16.18	16.32
	80	16.19	16.32
	90	16.21	16.30
	100	16.21	16.36
	110	16.25	16.36
	120	16.23	16.29
	130	16.22	16.34
	140	16.24	16.29
	150	16.27	16.28
	160	16.20	16.34
	170	16.26	16.35
	180	16.26	16.37
	190	16.26	16.32
	200	16.26	16.34
	210	16.26	16.30
	220	16.19	16.30
	230	16.19	16.32
	240	16.25	16.35
	250	16.20	16.33
	260	16.18	16.33
	270	16.18	16.30
	280	16.21	16.32
	290	16.21	16.34

	300	16.26	16.37
	310	16.18	16.36
	320	16.21	16.27
	330	16.27	16.28
	340	16.23	16.29
	350	16.26	16.30
Tablet	360	16.22	16.30
Laptop	355	16.22	16.21
	356	16.24	16.24
	357	16.21	16.27
	358	16.19	16.17
	359	16.23	16.20
Tablet	360	16.22	16.32

A.1.2 The lid is rotating from 360° to 0°

Mode	Angle (degrees)	Measured Power	
		2.4GHz 802.11b Ch6	
		(dBm)	
		Main	Aux.
Tablet	360	16.24	16.26
Laptop	350	16.24	16.31
	345	16.26	16.34
Tablet	360	16.24	16.35
Laptop	359	16.27	16.32
	358	16.18	16.35
	357	16.22	16.30
	356	16.24	16.33
	355	16.23	16.35
	350	16.22	16.36
	340	16.20	16.33
	330	16.20	16.30
	320	16.24	16.32
	310	16.24	16.32
	300	16.18	16.33
	290	16.23	16.31
	280	16.19	16.27
	270	16.17	16.29
	260	16.23	16.30
	250	16.23	16.29
	240	16.24	16.28
	230	16.21	16.27
	220	16.24	16.32
	210	16.23	16.28
	200	16.23	16.37
	190	16.18	16.31
	180	16.24	16.28
	170	16.22	16.31
	160	16.21	16.28
	150	16.21	16.30
	140	16.23	16.33
	130	16.20	16.31
	120	16.27	16.37
	110	16.26	16.31

	100	16.25	16.28
	90	16.18	16.29
	80	16.20	16.33
	70	16.26	16.35
	60	16.22	16.35
	50	16.17	16.33
	40	16.21	16.33
	30	16.26	16.34
	20	16.21	16.30
	10	16.27	16.30
	0	16.19	16.34

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

A.2.1 The lid is rotating from 0° to 360°

Mode	Angle (degrees)	Measured Power	
		5GHz 802.11a Ch120	
		(dBm)	
		Main	Aux.
Laptop	0	15.89	15.91
	10	15.89	15.95
	20	15.92	15.93
	30	15.92	15.90
	40	15.90	15.87
	50	15.95	15.91
	60	15.88	15.93
	70	15.95	15.89
	80	15.88	15.89
	90	15.85	15.95
	100	15.86	15.88
	110	15.88	15.94
	120	15.95	15.87
	130	15.87	15.91
	140	15.93	15.91
	150	15.86	15.96
	160	15.93	15.95
	170	15.89	15.97
	180	15.87	15.90
	190	15.94	15.92
	200	15.90	15.93
	210	15.85	15.91
	220	15.87	15.96
	230	15.85	15.96
	240	15.88	15.92
	250	15.89	15.87
	260	15.89	15.91
	270	15.89	15.91
	280	15.88	15.95
	290	15.90	15.92
	300	15.94	15.95
	310	15.88	15.95

	320	15.86	15.94
	330	15.95	15.96
	340	15.88	15.95
	350	15.88	15.91
Tablet	360	10.91	13.96
Laptop	355	15.89	15.91
	356	15.90	15.93
	357	15.91	15.92
	358	15.87	15.91
	359	15.93	15.91
Tablet	360	10.90	13.94

A.2.2 The lid is rotating from 360° to 0°

Mode	Angle (degrees)	Measured Power	
		5GHz 802.11a Ch120	
		(dBm)	
		Main	Aux.
Tablet	360	10.96	13.98
Laptop	350	15.86	15.94
	345	15.86	15.90
Tablet	360	10.87	13.90
Laptop	359	15.88	15.92
	358	15.91	15.92
	357	15.93	15.88
	356	15.89	15.91
	355	15.89	15.91
	350	15.94	15.87
	340	15.95	15.88
	330	15.94	15.89
	320	15.95	15.96
	310	15.90	15.90
	300	15.89	15.93
	290	15.93	15.96
	280	15.91	15.96
	270	15.93	15.94
	260	15.88	15.96
	250	15.88	15.87
	240	15.95	15.93
	230	15.91	15.93
	220	15.87	15.92
	210	15.92	15.93
	200	15.89	15.96
	190	15.90	15.89
	180	15.93	15.96
	170	15.86	15.94
	160	15.85	15.91
	150	15.92	15.91
	140	15.92	15.87
	130	15.90	15.96
	120	15.94	15.96
	110	15.91	15.90

	100	15.92	15.94
	90	15.90	15.95
	80	15.88	15.89
	70	15.94	15.92
	60	15.85	15.95
	50	15.94	15.95
	40	15.87	15.90
	30	15.85	15.97
	20	15.90	15.88
	10	15.89	15.87
	0	15.86	15.88

Statement

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--END OF REPORT--