

TEST REPORT

FCC SAR Part 1 Test for WL22B
Class II Permissive Change

APPLICANT
Panasonic Corporation of North America

REPORT NO.
HCT-SR-2511-FC005-R1

DATE OF ISSUE
December 23, 2025

Tested by
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HCT-SR-2511-FC005-R1

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December 23, 2025

Applicant

Panasonic Corporation of North America
Two Riverfront Plaza, Newark, NJ 07102-5490

Product Name

Intel Wi-Fi 6 AX211

Model Name

WL22B

Host Model Name

CF-33

Date of Test

Oct. 20, 2025 ~ Nov.12, 2025

Location of Test

☒ Permanent Testing Lab ☐ On Site Testing Lab
(Address: 74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si, Gyeonggi-do, Republic of Korea)

FCC Rule Part(s)

CFR § 2.1093

Test Results

PASS (SAR Limit : 1.6 W/kg)
Refer to the clause 3.2 Attestation of test result

REVISION HISTORY

The revision history for this test report is shown in table.

Revision No.	Date of Issue	Description
0	November 26, 2025	Initial Issue
1	December 23, 2025	Added WLAN 6E APD Results

Notice

Content

The results shown in this test report only apply to the sample(s), as received, provided by the applicant, unless otherwise stated.

The test results have only been applied with the test methods required by the standard(s).

The laboratory is not accredited for the test results marked *.

Information provided by the applicant is marked **.

Test results provided by external providers are marked ***.

When confirmation of authenticity of this test report is required, please contact www.hct.co.kr

The test results in this test report are not associated with the ((KS Q) ISO/IEC 17025) accreditation by KOLAS (Korea Laboratory Accreditation Scheme) / A2LA (American Association for Laboratory Accreditation) that are under the ILAC (International Laboratory Accreditation Cooperation) Mutual Recognition Agreement (MRA).

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1. Test Regulation

The tests documented in this report were performed in accordance with FCC CFR § 2.1093, IEEE 1528-2013, ANSI C63.26-2015 the following FCC Published RF exposure KDB procedures:

- FCC KDB Publication 248227 D01 802.11 Wi-Fi SAR v02r02
- FCC KDB Publication 447498 D01 General RF Exposure Guidance v06
- FCC KDB Publication 616217 D04 SAR for Laptop and tablets v01r02
- FCC KDB Publication 865664 D01 SAR measurement 100 MHz to 6 GHz v01r04
- FCC KDB Publication 865664 D02 SAR Reporting v01r02
- FCC KDB Publication 690783 D01 SAR Listings on Grants v01r03
- FCC KDB Publication 971168 D01 Power Meas License Digital Systems v03r01

2. Test Location

2.1 Test Laboratory

Company Name	HCT Co., Ltd.
Address	74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si, Gyeonggi-do, Republic of Korea
Telephone	031-645-6300
Fax.	031-645-6401

2.2 Test Facilities

Our laboratories are accredited and approved by the following approval agencies according to ISO/IEC 17025.

Korea	National Radio Research Agency (Designation No. KR0032)
	KOLAS (Testing No. KT197)

3. Information of the EUT

3.1 General Information of the EUT

Model Name	WL22B
Host Model Name	CF-33
Equipment Type	Intel Wi-Fi 6 AX211
FCC ID	ACJ9TGWL22B
Application Type	Class 2 Permissive Change
Applicant	Panasonic Corporation of North America
Change note	Due to component procurement issues, we plan a design change to modify the magnet used for detecting Convertible Mode. After the change, the detection angle will be modified from 10 degrees to 5 degrees. (Verified at 10 degrees in HCT-SR_2206-FC004, HCT-SR_2206-FC003 (WL22B)) There are no changes to the wireless characteristics in Convertible mode, Laptop mode, or Tablet mode. The output power of the WL22B remains unchanged; only the operating angle of the magnet sensor is modified from 10 degrees to 5 degrees.

3.2 Attestation of test result of device under test

The Highest Reported SAR for C2PC			
Band	Tx. Frequency	Equipment Class	Reported SAR
	(MHz)		1g SAR (W/kg)
2.4 GHz WLAN	2 412 ~ 2 472	DTS	1.23
5 GHz WLAN	5 180 ~ 5 825	NII	0.98
6 GHz WLAN	5 995 ~ 7115	6XD	0.57
Date(s) of Tests:	Oct. 20, 2025 ~ Nov.12, 2025		

The SAR measurement results for the magnet change approval were conducted at the worst-case conditions for the 2.4GHz, 5GHz, and 6GHz frequency bands of the Basic Model approval results(Report no: HCT-SR-2206-FC004, HCT-SR-2206-FC003). The test results were not higher than the measurement results of the Basic Model in any case.

4. DEVICE UNDER TEST DESCRIPTION

4.1 DUT specification

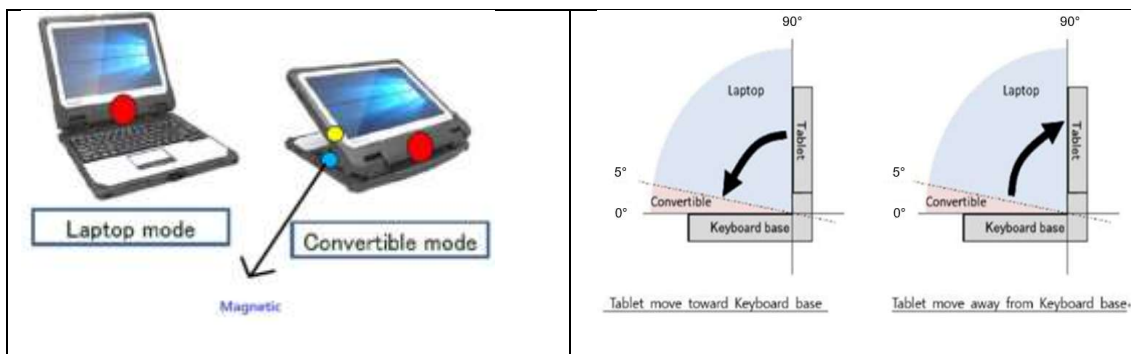
Device Wireless specification overview		
Band & Mode	Operating Mode	Tx Frequency
2.4 GHz WLAN	Data	2 412 MHz ~ 2 462 MHz
Bluetooth / LE 5.2	Data	2 402 MHz ~ 2 480 MHz
U-NII-1	Data	5 180 MHz ~ 5 240 MHz
U-NII-2A	Data	5 260 MHz ~ 5 320 MHz
U-NII-2C	Data	5 500 MHz ~ 5 720 MHz
U-NII-3	Data	5 745 MHz ~ 5 825 MHz
U-NII-5	Data	5 955 MHz ~ 6 415 MHz
U-NII-6	Data	6 435 MHz ~ 6 525 MHz
U-NII-7	Data	6 535 MHz ~ 6 875 MHz
U-NII-8	Data	6 895 MHz ~ 7 115 MHz
Device Description		
Device Serial Numbers	Mode	Serial Number
	2.4 GHz WLAN, 5 GHz WLAN, 6 GHz WLAN	S0P-25-01689
	The manufacturer has confirmed that the devices tested have the same physical, mechanical and thermal characteristics are within operational tolerances expected for production units.	

4.2 Test Considerations

Due to component procurement issues, we plan a design change to modify the magnet used for detecting Convertible Mode.

After the change, the detection angle will be modified from 10 degrees to 5 degrees. (Verified at 10 degrees in HCT-SR-2206-FC003/HCT-SR-2206-FC004(WL22B))

There are no changes to the wireless characteristics in Convertible mode, Laptop mode, or Tablet mode.



This test report includes the output Power verification test results for the magnet following the component change and the spot check SAR results, which were performed on the highest SAR test case from Approval Report (Report No. HCT-SR-2206-FC003/HCT-SR-2206-FC004 (WL22B) and evaluated to be no higher than the original test results.

5. Power Verification for Magnetic Hall effect sensor

The magnetic Hall sensor applied to this device is used to reduce the output Power when the DUT is switched from laptop mode to convertible mode. In the laptop state, it becomes convertible mode by touching the lid of the screen with the keyboard. The magnetic sensor applied to this DUT operates when the DUT's screen lid is close to the laptop keyboard, so it changes from max power (20dBm) of laptop mode to reduced power of convertible mode. The verification test for the power reduction of the magnetic sensor applied to this product was conducted according to the TCBC Workshop note in November 2019, Per Nov. 2019 TCB workshop notes, Hall Effect for laptops/tablets Guidance.

Hall Effect sensors are becoming increasingly prevalent in laptops and tablets, especially for convertible laptops/tablets that switch modes (laptop, to stand mode, to tent mode, to tablet mode)

These sensors are often used to trigger power reduction based on the particular use mode. This power reduction occurs when the lid angle reaches a certain value.

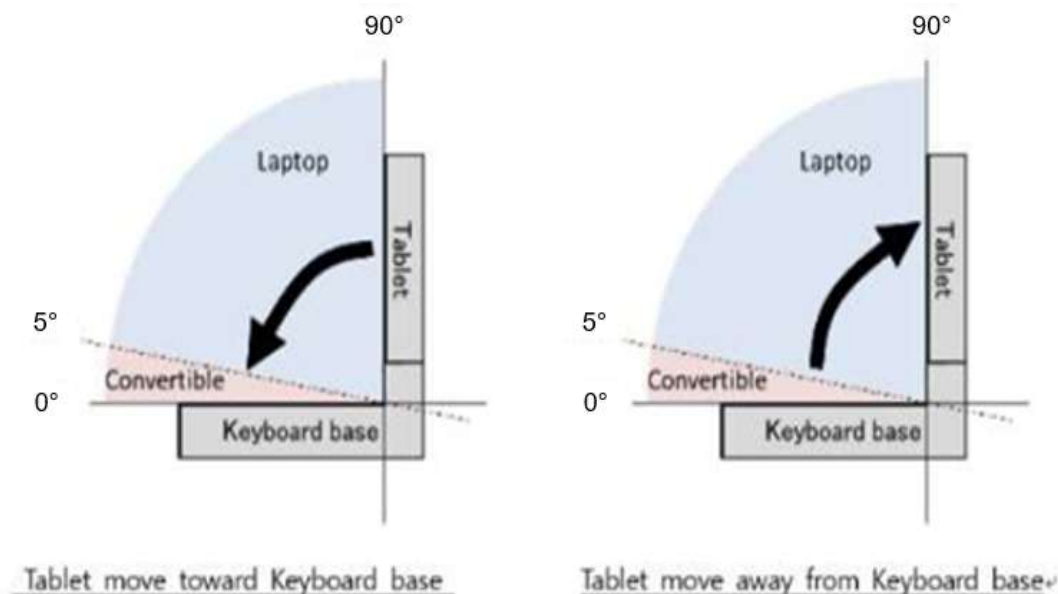
The following guidance should be applied to laptops/tablets that use Hall Effect sensors to detect lid angle for the purpose of power reduction.

1. With the lid is in closed mode (0 degrees), open the screen in 10 degree steps until laptop mode is obtained.
2. Lower the screen 5 degrees. Closed mode should be reobtained. If not keep lowering in 5 degree steps.
3. Open the screen in 1 degree steps until laptop mode is reobtained
4. Continue opening the screen in 1 degree steps until at least 5 degrees past where laptop mode was obtained

Then continue opening the screen in 10 degree steps until tablet mode is obtained

-Power measurements should be taken at each step

-Reverse this procedure going from tablet mode back down to closed mode



Magnetic Sensor Operations

WLAN Mode	Magnetic sensor operation	
	Close (0°) to Open(90°)	open (90°) -> close(0°)
2.4 GHz 802.11b	5	5
2.4 GHz 802.11g	5	5
2.4 GHz 802.11n	5	5
2.4 GHz 802.11ax	5	5
2.4 GHz 802.11n 40MHz	5	5
2.4 GHz 802.11ax 40MHz	5	5
5 GHz 802.11a	5	5
5 GHz 802.11n 20MHz	5	5
5 GHz 802.11ac 20MHz	5	5
5 GHz 802.11ax 20MHz	5	5
5 GHz 802.11n 40MHz	5	5
5 GHz 802.11ac 40MHz	5	5
5 GHz 802.11ax 40MHz	5	5
5 GHz 802.11ac 80MHz	5	5
5 GHz 802.11ax 80MHz	5	5
6 GHz 802.11ax 80MHz	5	5
6 GHz 802.11ax 160MHz	5	5

Degree Measurement verification for Magnetic sensor

5.1 Close (0°) to Open (90°): convertible Mode to Laptop Mode

.With the lid is in closed mode (0 degrees), open the screen in 10 degree steps until laptop mode is obtained

Close (0°) to Open(90°)												
Ant	mode	Degree[°]	0	10	20	30	40	50	60	70	80	90
Main Ant	2.4 GHz 802.11b	Measured Power [dBm]	15.26	19.66	19.69	19.68	19.73	19.45	19.64	19.71	19.55	19.60
	2.4 GHz 802.11g		14.84	19.22	19.15	19.30	19.44	19.30	19.41	19.22	19.48	19.52
	2.4 GHz 802.11n		14.69	19.36	19.46	19.35	19.36	19.37	19.46	19.49	19.35	19.47
	2.4 GHz 802.11ax		15.03	19.68	19.60	19.49	19.51	19.43	19.51	19.65	19.52	19.58
	2.4 GHz 802.11n 40MHz		14.86	16.05	15.99	16.11	16.06	16.18	16.02	16.04	16.00	16.09
	2.4 GHz 802.11ax 40MHz		14.78	16.07	15.99	16.04	15.95	16.03	16.03	15.99	15.94	15.95
	5 GHz 802.11a		13.33	19.30	19.32	19.28	19.42	19.40	19.18	19.31	19.38	19.24
	5 GHz 802.11n 20MHz		13.17	19.39	19.34	19.27	19.29	19.41	19.35	19.28	19.33	19.39
	5 GHz 802.11ac 20MHz		13.35	19.25	19.32	19.28	19.43	19.32	19.31	19.41	19.35	19.37
	5 GHz 802.11ax 20MHz		14.05	19.57	19.63	19.57	19.56	19.60	19.51	19.69	19.61	19.39
	5 GHz 802.11n 40MHz		13.66	19.21	19.11	19.29	19.11	19.24	19.13	19.18	19.18	19.07
	5 GHz 802.11ax 40MHz		13.76	19.19	19.18	19.03	19.21	19.27	19.32	19.14	19.10	19.09
	5 GHz 802.11ax 40MHz		13.74	19.19	19.25	19.23	19.25	19.32	19.15	19.39	19.25	19.28
	5 GHz 802.11ac 80MHz		14.24	19.56	19.65	19.59	19.67	19.65	19.72	19.77	19.72	19.79
	5 GHz 802.11ax 80MHz		11.36	19.75	19.65	19.50	19.58	19.44	19.48	19.59	19.38	19.55
	5 GHz 802.11ac 160MHz		11.68	15.20	15.22	15.10	15.13	15.18	15.16	15.29	15.22	14.93
	5 GHz 802.11ax 160MHz		11.54	15.30	15.25	15.15	15.13	15.35	15.28	15.20	15.18	15.39
	6 GHz 802.11ax 80MHz		10.39	11.16	11.12	11.13	11.11	11.25	11.09	11.03	11.08	11.21
	6 GHz 802.11ax 160MHz		9.25	11.90	11.97	12.04	11.85	11.93	12.05	12.05	11.94	11.97
Aux Ant	2.4 GHz 802.11b	Measured Power [dBm]	15.62	19.70	19.66	19.57	19.56	19.48	19.66	19.54	19.30	19.35
	2.4 GHz 802.11g		15.60	19.40	19.33	19.43	19.28	19.45	19.31	19.43	19.30	19.20
	2.4 GHz 802.11n		15.48	19.07	19.17	19.11	19.06	19.25	19.23	19.08	19.35	19.12
	2.4 GHz 802.11ax		15.43	19.26	19.24	19.21	19.23	19.19	19.16	19.18	19.18	19.21
	2.4 GHz 802.11n 40MHz		14.97	16.36	16.37	16.39	16.36	16.46	16.47	16.40	16.52	16.40
	2.4 GHz 802.11ax 40MHz		15.22	16.63	16.61	16.44	16.69	16.48	16.72	16.51	16.68	16.42
	5 GHz 802.11a		12.90	19.30	19.35	19.22	19.22	19.26	19.18	19.14	19.20	19.16
	5 GHz 802.11n 20MHz		12.63	19.01	18.93	18.86	19.07	19.00	19.01	19.09	18.92	18.95
	5 GHz 802.11ac 20MHz		12.72	19.45	19.51	19.67	19.64	19.67	19.78	19.59	19.69	19.74
	5 GHz 802.11ax 20MHz		11.69	19.32	19.39	19.46	19.34	19.44	19.49	19.49	19.60	19.45
	5 GHz 802.11n 40MHz		13.26	19.65	19.56	19.63	19.41	19.51	19.59	19.54	19.49	19.41
	5 GHz 802.11ac 40MHz		11.90	19.00	19.03	18.94	18.98	18.95	18.87	18.99	18.93	18.84
	5 GHz 802.11ax 40MHz		11.78	19.03	19.13	18.95	19.04	19.05	19.12	19.10	19.19	19.19
	5 GHz 802.11ac 80MHz		11.64	19.22	19.26	19.03	19.25	19.18	19.11	19.25	19.17	19.25
	5 GHz 802.11ax 80MHz		11.21	19.53	19.46	19.23	19.18	19.46	19.37	19.41	19.28	19.30
	5 GHz 802.11ac 160MHz		11.77	14.78	14.83	14.86	14.74	14.91	14.92	14.94	14.92	15.06
	5 GHz 802.11ax 160MHz		11.53	14.79	14.87	14.72	14.83	14.98	14.95	14.89	14.89	14.71
	6 GHz 802.11ax 80MHz		10.34	11.06	11.03	11.25	11.12	11.12	11.17	11.07	11.27	11.23
	6 GHz 802.11ax 160MHz		9.35	11.91	11.90	12.16	12.00	11.98	12.01	12.06	11.96	12.13

Open the screen 5 degrees. Opened mode should be reobtained. If not keep lopening in 5 degree steps.

Close(0°) to Open(20°)							
Ant	mode	Degree[°]	0	5	10	15	20
Main Ant	2.4 GHz 802.11b	Measured Power [dBm]	15.15	15.17	19.65	19.70	19.58
	2.4 GHz 802.11g		14.71	14.83	19.36	19.19	19.30
	2.4 GHz 802.11n		14.72	14.67	19.43	19.37	19.47
	2.4 GHz 802.11ax		14.94	14.84	19.57	19.62	19.63
	2.4 GHz 802.11n 40MHz		14.97	14.85	16.12	16.05	16.18
	2.4 GHz 802.11ax 40MHz		14.79	14.88	15.95	16.14	16.18
	5 GHz 802.11a		13.27	13.21	19.22	19.31	19.31
	5 GHz 802.11n 20MHz		13.13	13.24	19.27	19.40	19.24
	5 GHz 802.11ac 20MHz		13.16	13.40	19.31	19.28	19.31
	5 GHz 802.11ax 20MHz		14.17	14.00	19.56	19.46	19.41
	5 GHz 802.11n 40MHz		13.70	13.58	19.19	19.26	19.27
	5 GHz 802.11ac 40MHz		13.65	13.66	19.09	19.20	19.22
	5 GHz 802.11ax 40MHz		13.92	13.83	19.11	19.19	19.23
	5 GHz 802.11ac 80MHz		14.15	14.21	19.71	19.78	19.65
	5 GHz 802.11ax 80MHz		11.28	11.41	19.61	19.51	19.53
	5 GHz 802.11ac 160MHz		11.88	11.85	15.15	15.00	15.03
	5 GHz 802.11ax 160MHz		11.58	11.75	15.27	15.23	15.21
	6 GHz 802.11ax 80MHz		9.99	10.04	11.12	11.12	11.01
	6 GHz 802.11ax 160MHz		9.25	9.23	12.38	12.47	12.44
Aux Ant	2.4 GHz 802.11b	Measured Power [dBm]	15.56	15.56	19.38	19.32	19.41
	2.4 GHz 802.11g		15.66	15.61	19.47	19.44	19.48
	2.4 GHz 802.11n		15.60	15.52	19.14	19.25	19.23
	2.4 GHz 802.11ax		15.59	15.68	19.25	19.18	19.01
	2.4 GHz 802.11n 40MHz		14.99	15.00	16.43	16.36	16.38
	2.4 GHz 802.11ax 40MHz		15.14	15.03	16.65	16.55	16.58
	5 GHz 802.11a		12.83	12.82	19.09	19.02	19.18
	5 GHz 802.11n 20MHz		12.75	12.74	19.07	18.93	18.96
	5 GHz 802.11ac 20MHz		12.65	12.68	19.56	19.70	19.75
	5 GHz 802.11ax 20MHz		11.76	11.76	19.33	19.42	19.52
	5 GHz 802.11n 40MHz		13.23	13.10	19.48	19.47	19.46
	5 GHz 802.11ac 40MHz		11.88	11.70	18.98	19.09	18.94
	5 GHz 802.11ax 40MHz		11.76	11.76	19.11	19.12	19.16
	5 GHz 802.11ac 80MHz		11.86	11.86	19.19	19.18	19.26
	5 GHz 802.11ax 80MHz		11.23	11.45	19.15	19.33	19.29
	5 GHz 802.11ac 160MHz		11.63	11.79	14.75	15.08	15.04
	5 GHz 802.11ax 160MHz		11.41	11.25	14.76	14.88	14.90
	6 GHz 802.11ax 80MHz		10.41	10.25	11.16	11.26	11.27
	6 GHz 802.11ax 160MHz		9.18	9.26	12.03	12.01	11.95

Open the screen in 1 degree steps until laptop mode is reobtained

Close (0°) to Open(20°)													
Ant	mode	Degree[°]	0	1	2	3	4	5	6	7	8	9	10
Main Ant	2.4 GHz 802.11b	Measured Power [dBm]	15.09	15.20	15.08	15.01	15.03	15.26	19.69	19.65	19.64	19.63	19.56
	2.4 GHz 802.11g		14.74	14.85	14.78	14.77	14.80	14.73	19.46	19.20	19.23	19.34	19.30
	2.4 GHz 802.11n		14.61	14.81	14.61	14.81	14.58	14.64	19.41	19.66	19.52	19.47	19.39
	2.4 GHz 802.11ax		14.93	14.87	14.89	14.96	15.03	14.91	19.43	19.45	19.49	19.38	19.57
	2.4 GHz 802.11n 40MHz		14.97	14.78	15.07	14.88	14.91	14.73	16.20	16.09	16.08	16.34	16.06
	2.4 GHz 802.11ax 40MHz		14.73	14.85	14.74	14.70	14.79	14.62	15.98	16.07	16.07	15.85	15.82
	5 GHz 802.11a		13.13	13.34	13.35	13.33	13.33	13.22	19.29	19.29	19.29	19.27	19.10
	5 GHz 802.11n 20MHz		13.34	13.23	13.09	13.38	13.20	13.15	19.28	19.38	19.26	19.45	19.27
	5 GHz 802.11ac 20MHz		13.21	13.39	13.27	13.30	13.23	13.38	19.38	19.20	19.34	19.27	19.30
	5 GHz 802.11ax 20MHz		14.05	13.92	14.05	14.12	13.97	13.91	19.46	19.51	19.65	19.77	19.57
	5 GHz 802.11n 40MHz		13.56	13.56	13.48	13.55	13.61	13.52	19.14	19.19	19.13	19.14	19.15
	5 GHz 802.11ac 40MHz		13.80	13.68	13.84	13.66	13.78	13.68	19.10	19.37	19.21	19.26	19.13
	5 GHz 802.11ax 40MHz		13.86	13.96	13.91	13.82	13.76	13.76	19.34	19.00	19.30	19.33	19.22
	5 GHz 802.11ac 80MHz		14.20	14.33	14.36	14.29	14.26	14.30	19.87	19.49	19.56	19.68	19.73
	5 GHz 802.11ax 80MHz		11.35	11.32	11.19	11.50	11.50	11.37	19.45	19.43	19.34	19.46	19.52
Aux Ant	5 GHz 802.11ac 160MHz	Measured Power [dBm]	11.90	11.80	11.92	11.91	11.82	11.75	15.31	15.05	14.92	15.17	15.11
	5 GHz 802.11ax 160MHz		11.70	11.64	11.57	11.53	11.45	11.68	15.29	15.26	15.44	15.30	15.31
	6 GHz 802.11ax 80MHz		9.96	10.06	9.96	10.08	10.03	10.03	11.14	11.08	11.04	11.18	11.13
	6 GHz 802.11ax 160MHz		9.26	9.15	9.01	9.23	9.09	9.05	12.46	12.56	12.32	12.57	12.47
	2.4 GHz 802.11b	Measured Power [dBm]	15.59	15.68	15.68	15.61	15.65	15.55	19.62	19.36	19.52	19.39	19.55
	2.4 GHz 802.11g		15.46	15.55	15.62	15.63	15.59	15.77	19.30	19.26	19.46	19.17	19.35
	2.4 GHz 802.11n		15.57	15.52	15.32	15.61	15.52	15.55	19.32	19.37	19.32	19.27	19.02
	2.4 GHz 802.11ax		15.42	15.50	15.60	15.58	15.70	15.46	18.92	19.30	19.15	19.29	19.28
	2.4 GHz 802.11n 40MHz		14.97	14.90	14.95	15.08	14.89	14.91	16.45	16.32	16.32	16.34	16.30
	2.4 GHz 802.11ax 40MHz		15.05	15.14	15.11	15.04	15.17	15.16	16.61	16.58	16.52	16.60	16.55
	5 GHz 802.11a		12.95	12.81	12.86	12.79	12.82	12.97	19.08	19.28	19.23	19.15	19.26
	5 GHz 802.11n 20MHz		12.62	12.69	12.77	12.53	12.63	12.68	18.91	19.08	18.83	18.98	19.05
	5 GHz 802.11ac 20MHz		12.70	12.66	12.77	12.73	12.71	12.69	19.68	19.58	19.45	19.73	19.69
	5 GHz 802.11ax 20MHz		11.75	11.74	11.78	11.60	11.78	11.75	19.43	19.45	19.36	19.45	19.74
	5 GHz 802.11n 40MHz		13.29	13.08	13.32	13.22	13.16	13.33	19.45	19.54	19.37	19.50	19.37
	5 GHz 802.11ac 40MHz		11.75	11.76	11.76	11.68	11.75	11.60	18.96	18.94	18.91	18.92	18.80
	5 GHz 802.11ax 40MHz		11.73	11.66	11.72	11.88	11.83	11.78	19.03	19.06	19.04	19.05	19.31
	5 GHz 802.11ac 80MHz		11.84	11.78	11.71	11.88	11.91	11.89	19.02	19.11	19.25	19.10	19.07
	5 GHz 802.11ax 80MHz		11.36	11.44	11.30	11.40	11.49	11.27	19.26	19.32	19.16	19.31	19.35
	5 GHz 802.11ac 160MHz		11.74	11.63	11.57	11.64	11.70	11.87	15.05	14.97	14.87	15.07	14.96
	5 GHz 802.11ax 160MHz		11.48	11.50	11.28	11.42	11.40	11.40	14.82	14.77	14.81	14.83	14.82
	6 GHz 802.11ax 80MHz		10.35	10.28	10.28	10.40	10.40	10.40	11.29	11.19	11.11	11.03	11.25
	6 GHz 802.11ax 160MHz		9.20	9.31	9.34	9.25	9.42	9.14	11.80	11.85	12.21	11.97	11.97

Close (0°) to Open(20°)												
Ant	mode	Degree[°]	11	12	13	14	15	16	17	18	19	20
Main Ant	2.4 GHz 802.11b	Measured Power [dBm]	19.63	19.70	19.62	19.57	19.66	19.50	19.68	19.69	19.46	19.57
	2.4 GHz 802.11g		19.37	19.27	19.25	19.26	19.20	19.45	19.52	19.33	19.41	19.50
	2.4 GHz 802.11n		19.43	19.59	19.51	19.37	19.44	19.37	19.37	19.37	19.48	19.50
	2.4 GHz 802.11ax		19.51	19.45	19.52	19.41	19.60	19.60	19.42	19.55	19.53	19.64
	2.4 GHz 802.11n 40MHz		16.24	16.13	16.04	16.29	16.16	16.02	15.97	16.15	16.24	16.09
	2.4 GHz 802.11ax 40MHz		16.05	16.16	16.15	15.95	15.89	16.10	16.01	15.99	15.98	16.05
	5 GHz 802.11a		19.35	19.29	19.34	19.30	19.18	19.28	19.18	19.41	19.22	19.27
	5 GHz 802.11n 20MHz		19.32	19.30	19.34	19.39	19.27	19.34	19.36	19.31	19.24	19.25
	5 GHz 802.11ac 20MHz		19.35	19.19	19.27	19.35	19.32	19.39	19.25	19.31	19.32	19.44
	5 GHz 802.11ax 20MHz		19.49	19.55	19.62	19.74	19.47	19.56	19.56	19.61	19.49	19.54
	5 GHz 802.11n 40MHz		19.13	19.11	19.17	19.15	19.06	19.14	19.29	19.15	19.18	19.05
	5 GHz 802.11ac 40MHz		19.17	19.32	19.22	19.26	19.03	19.20	19.22	19.24	19.17	19.26
	5 GHz 802.11ax 40MHz		19.31	19.06	19.38	19.27	19.30	19.07	19.24	19.20	19.15	19.16
	5 GHz 802.11ac 80MHz		19.82	19.51	19.62	19.77	19.71	19.63	19.71	19.58	19.49	19.76
	5 GHz 802.11ax 80MHz		19.42	19.52	19.34	19.48	19.62	19.52	19.50	19.46	19.48	19.48
	5 GHz 802.11ac 160MHz		15.26	15.06	15.01	15.14	15.19	15.20	15.07	15.29	14.98	14.97
	5 GHz 802.11ax 160MHz		15.23	15.30	15.42	15.32	15.30	15.44	15.18	15.26	15.39	15.37
	6 GHz 802.11ax 80MHz		11.06	11.00	11.09	11.09	11.04	11.21	11.28	11.29	10.94	11.10
	6 GHz 802.11ax 160MHz		12.38	12.54	12.40	12.62	12.51	12.52	12.43	12.55	12.57	12.51
Aux Ant	2.4 GHz 802.11b	Measured Power [dBm]	19.53	19.43	19.59	19.49	19.57	19.30	19.32	19.45	19.56	19.51
	2.4 GHz 802.11g		19.26	19.35	19.45	19.23	19.45	19.45	19.41	19.35	19.43	19.47
	2.4 GHz 802.11n		19.31	19.33	19.24	19.24	19.10	19.22	19.35	19.27	19.30	19.17
	2.4 GHz 802.11ax		19.01	19.20	19.19	19.27	19.23	19.13	19.14	19.22	19.15	19.14
	2.4 GHz 802.11n 40MHz		16.44	16.30	16.32	16.43	16.32	16.27	16.30	16.34	16.34	16.29
	2.4 GHz 802.11ax 40MHz		16.57	16.55	16.47	16.51	16.53	16.54	16.45	16.72	16.67	16.59
	5 GHz 802.11a		19.18	19.25	19.18	19.19	19.20	19.25	19.18	19.21	19.33	19.29
	5 GHz 802.11n 20MHz		19.00	19.03	18.87	18.93	19.03	19.08	18.91	19.11	19.03	19.06
	5 GHz 802.11ac 20MHz		19.74	19.67	19.51	19.67	19.70	19.58	19.60	19.80	19.78	19.71
	5 GHz 802.11ax 20MHz		19.37	19.39	19.45	19.51	19.66	19.45	19.59	19.42	19.59	19.55
	5 GHz 802.11n 40MHz		19.51	19.44	19.40	19.48	19.34	19.52	19.58	19.48	19.48	19.62
	5 GHz 802.11ac 40MHz		18.90	18.89	18.95	18.98	18.90	18.95	18.91	18.84	18.80	18.92
	5 GHz 802.11ax 40MHz		19.05	19.01	19.09	19.07	19.24	19.17	18.98	19.04	18.96	19.07
	5 GHz 802.11ac 80MHz		19.06	19.16	19.15	19.05	19.17	19.17	19.09	19.26	19.24	19.17
	5 GHz 802.11ax 80MHz		19.29	19.29	19.26	19.30	19.35	19.39	19.28	19.43	19.34	19.31
	5 GHz 802.11ac 160MHz		15.03	14.97	14.92	15.09	15.02	14.94	14.95	15.02	14.95	15.11
	5 GHz 802.11ax 160MHz		14.82	14.72	14.81	14.91	14.84	14.90	14.79	14.78	14.71	14.91
	6 GHz 802.11ax 80MHz		11.33	11.23	11.06	11.02	11.18	11.33	11.18	11.26	11.31	11.15
	6 GHz 802.11ax 160MHz		11.88	11.88	12.11	12.05	11.99	12.02	11.96	12.02	11.87	12.17

Continue opening the screen in 1 degree steps until at least 5 degrees past where laptop mode was obtained

Close (4°) to Open(14°)													
Ant	mode	Degree[°]	4	5	6	7	8	9	10	11	12	13	14
Main Ant	2.4 GHz 802.11b	Measured Power [dBm]	15.21	15.27	19.59	19.75	19.75	19.63	19.74	19.80	19.57	19.51	19.44
	2.4 GHz 802.11g		14.64	14.82	19.37	19.29	19.43	19.40	19.32	19.37	19.42	19.43	19.48
	2.4 GHz 802.11n		14.70	14.71	19.44	19.51	19.35	19.44	19.42	19.36	19.49	19.46	19.50
	2.4 GHz 802.11ax		14.93	15.00	19.57	19.74	19.55	19.49	19.65	19.49	19.53	19.48	19.43
	2.4 GHz 802.11n 40MHz		15.00	14.86	16.01	16.13	16.15	16.09	16.06	16.19	16.10	16.16	16.07
	2.4 GHz 802.11ax 40MHz		14.81	14.59	16.14	15.84	15.97	16.05	15.88	15.98	15.96	16.06	16.16
	5 GHz 802.11a		13.26	13.33	19.33	19.37	19.13	19.37	19.39	19.21	19.38	19.17	19.25
	5 GHz 802.11n 20MHz		13.17	13.33	19.40	19.20	19.26	19.34	19.21	19.36	19.17	19.47	19.54
	5 GHz 802.11ac 20MHz		13.11	13.31	19.41	19.32	19.58	19.32	19.23	19.50	19.37	19.33	19.42
	5 GHz 802.11ax 20MHz		14.04	13.93	19.64	19.47	19.55	19.62	19.57	19.60	19.61	19.54	19.50
	5 GHz 802.11n 40MHz		13.58	13.60	19.03	19.25	19.09	19.07	19.26	19.17	19.19	19.20	19.28
	5 GHz 802.11ac 40MHz		13.66	13.69	19.22	19.10	19.19	19.25	19.09	19.22	19.33	19.26	19.36
	5 GHz 802.11ax 40MHz		13.82	14.00	19.03	19.34	19.21	19.11	19.27	19.22	19.19	19.20	19.30
	5 GHz 802.11ac 80MHz		14.32	14.33	19.83	19.55	19.62	19.73	19.56	19.59	19.71	19.58	19.62
	5 GHz 802.11ax 80MHz		11.35	11.29	19.48	19.48	19.44	19.42	19.52	19.46	19.38	19.33	19.37
	5 GHz 802.11ac 160MHz		11.98	11.85	14.98	14.95	15.21	15.04	15.02	15.12	15.22	15.16	15.14
	5 GHz 802.11ax 160MHz		11.74	11.63	15.27	15.21	15.07	15.34	15.16	15.11	15.11	15.43	15.41
Aux Ant	6 GHz 802.11ax 80MHz	Measured Power [dBm]	10.07	9.89	11.20	11.11	11.11	11.12	11.12	11.10	11.02	10.92	10.86
	6 GHz 802.11ax 160MHz		9.16	9.09	12.73	12.49	12.38	12.67	12.43	12.41	12.39	12.40	12.48
	2.4 GHz 802.11b		15.57	15.64	19.56	19.37	19.48	19.52	19.47	19.40	19.44	19.52	19.61
	2.4 GHz 802.11g		15.49	15.70	19.31	19.18	19.45	19.30	19.24	19.51	19.24	19.37	19.38
	2.4 GHz 802.11n		15.48	15.57	19.17	19.39	19.02	19.23	19.38	19.12	19.33	19.24	19.33
	2.4 GHz 802.11ax		15.43	15.58	19.24	19.32	19.10	19.16	19.30	19.11	19.18	19.23	19.31
	2.4 GHz 802.11n 40MHz		15.02	14.95	16.53	16.32	16.41	16.51	16.34	16.41	16.19	16.33	16.38
	2.4 GHz 802.11ax 40MHz		15.15	15.03	16.47	16.54	16.67	16.53	16.62	16.59	16.68	16.55	16.56
	5 GHz 802.11a		12.94	12.82	19.01	19.17	19.12	19.05	19.21	19.19	19.30	19.34	19.33
	5 GHz 802.11n 20MHz		12.77	12.63	18.95	19.16	18.97	18.88	19.10	18.95	18.90	19.00	18.92
	5 GHz 802.11ac 20MHz		12.86	12.62	19.59	19.72	19.73	19.56	19.80	19.70	19.60	19.59	19.49
	5 GHz 802.11ax 20MHz		11.56	11.59	19.43	19.51	19.56	19.52	19.42	19.50	19.44	19.40	19.46
	5 GHz 802.11n 40MHz		13.28	13.26	19.57	19.36	19.53	19.53	19.45	19.60	19.49	19.51	19.44
	5 GHz 802.11ac 40MHz		11.78	11.70	18.72	18.94	19.05	18.82	18.95	18.99	18.82	18.94	18.98
	5 GHz 802.11ax 40MHz		11.70	11.66	19.19	19.17	19.05	19.19	19.27	19.04	19.11	19.04	18.99
	5 GHz 802.11ac 80MHz		11.97	11.89	19.29	19.14	19.01	19.34	19.08	19.02	19.19	19.17	19.13
	5 GHz 802.11ax 80MHz		11.36	11.37	19.61	19.30	19.30	19.52	19.30	19.31	19.29	19.19	19.18
	5 GHz 802.11ac 160MHz		11.73	11.67	14.97	14.91	14.85	14.90	15.01	14.84	14.87	14.86	14.91
	5 GHz 802.11ax 160MHz		11.27	11.46	14.68	14.74	14.71	14.76	14.67	14.81	14.94	14.73	14.74
	6 GHz 802.11ax 80MHz		10.47	10.52	11.12	10.92	11.35	11.14	11.00	11.32	11.13	11.06	11.14
	6 GHz 802.11ax 160MHz		9.21	9.37	11.97	12.17	11.96	12.05	12.08	11.97	11.87	12.00	11.96

5.2 Open (90°) to Close (0°): Laptop Mode to convertible Mode

With the lid is in Opened mode (90 degrees), Close the screen in 10 degree steps until Convertible mode is obtained

Open(90°) to Close(0°)												
Ant	mode	Degree[°]	90	80	70	60	50	40	30	20	10	0
Main Ant	2.4 GHz 802.11b	Measured Power [dBm]	19.63	19.52	19.47	19.46	19.51	19.55	19.63	19.55	19.58	15.17
	2.4 GHz 802.11g		19.20	19.22	19.25	19.41	19.36	19.41	19.28	19.53	19.35	14.83
	2.4 GHz 802.11n		19.55	19.36	19.38	19.49	19.38	19.51	19.45	19.40	19.23	14.63
	2.4 GHz 802.11ax		19.45	19.54	19.45	19.56	19.48	19.33	19.49	19.55	19.62	15.04
	2.4 GHz 802.11n 40MHz		15.99	16.21	15.98	16.18	16.04	16.20	16.14	16.03	16.02	14.82
	2.4 GHz 802.11ax 40MHz		16.09	15.99	16.02	16.16	15.85	16.01	15.91	15.91	15.97	14.72
	5 GHz 802.11a		19.26	19.30	19.17	19.42	19.24	19.40	19.24	19.37	19.30	13.22
	5 GHz 802.11n 20MHz		19.35	19.30	19.32	19.44	19.42	19.18	19.32	19.24	19.39	13.19
	5 GHz 802.11ac 20MHz		19.25	19.31	19.40	19.41	19.37	19.22	19.36	19.31	19.27	13.22
	5 GHz 802.11ax 20MHz		19.55	19.69	19.42	19.56	19.55	19.57	19.45	19.69	19.75	13.94
	5 GHz 802.11n 40MHz		19.18	18.98	19.14	19.13	19.13	19.06	19.08	19.09	19.19	13.47
	5 GHz 802.11ax 40MHz		19.07	19.15	19.12	19.17	19.22	19.20	19.24	19.21	19.15	13.71
	5 GHz 802.11ax 40MHz		19.23	19.32	19.12	19.13	19.22	19.15	19.20	19.41	19.24	13.71
	5 GHz 802.11ac 80MHz		19.71	19.50	19.68	19.70	19.72	19.72	19.66	19.67	19.71	14.29
	5 GHz 802.11ax 80MHz		19.43	19.51	19.50	19.52	19.57	19.39	19.36	19.39	19.36	11.36
	5 GHz 802.11ac 160MHz		15.17	15.24	15.19	15.20	15.15	15.23	14.99	15.11	15.07	12.01
	5 GHz 802.11ax 160MHz		15.29	15.24	15.07	15.15	15.37	15.35	15.27	15.12	15.22	11.58
Aux Ant	6 GHz 802.11ax 80MHz	Measured Power [dBm]	11.05	11.19	11.16	11.02	11.04	11.06	11.10	11.00	11.03	9.86
	6 GHz 802.11ax 160MHz		12.42	12.50	12.39	12.34	12.57	12.67	12.67	12.54	12.56	9.23
	2.4 802.11b		19.39	19.45	19.37	19.56	19.47	19.47	19.40	19.65	19.58	15.45
	2.4 GHz 802.11g		19.30	19.20	19.31	19.45	19.36	19.28	19.30	19.41	19.33	15.66
	2.4 GHz 802.11n		19.23	19.05	19.10	19.20	19.25	19.32	19.37	19.11	19.10	15.56
	2.4 GHz 802.11ax		19.27	19.04	19.21	19.22	19.15	19.12	19.02	19.24	19.18	15.48
	2.4 GHz 802.11n 40MHz		16.37	16.22	16.38	16.24	16.40	16.42	16.33	16.38	16.47	14.94
	2.4 GHz 802.11ax 40MHz		16.57	16.53	16.55	16.59	16.61	16.56	16.67	16.57	16.61	15.07
	5 GHz 802.11a		19.13	19.19	19.21	19.31	19.09	19.20	19.30	19.21	19.20	12.80
	5 GHz 802.11n 20MHz		18.84	18.85	19.01	19.03	18.98	18.98	19.19	18.98	18.95	12.61
	5 GHz 802.11ac 20MHz		19.79	19.76	19.73	19.70	19.62	19.75	19.73	19.57	19.71	12.60
	5 GHz 802.11ax 20MHz		19.54	19.49	19.66	19.43	19.56	19.44	19.37	19.41	19.49	11.58
	5 GHz 802.11n 40MHz		19.33	19.32	19.57	19.54	19.51	19.52	19.59	19.41	19.52	13.27
	5 GHz 802.11ac 40MHz		18.94	18.93	18.92	19.06	19.04	19.03	18.95	18.95	18.84	11.69
	5 GHz 802.11ax 40MHz		18.98	19.16	19.29	19.02	19.07	19.27	18.98	19.19	19.09	11.71
	5 GHz 802.11ac 80MHz		19.12	19.14	19.22	19.16	18.98	19.09	18.96	19.25	19.17	11.81
	5 GHz 802.11ax 80MHz		19.30	19.31	19.26	19.23	19.23	19.46	19.33	19.44	19.32	11.29
	5 GHz 802.11ac 160MHz		14.82	14.96	14.97	14.90	14.92	14.85	14.95	14.96	14.96	11.66
	5 GHz 802.11ax 160MHz		14.93	14.71	14.92	14.83	14.78	14.89	14.94	14.92	14.97	11.43
	6 GHz 802.11ax 80MHz		11.09	11.22	11.05	11.19	11.19	11.17	11.12	11.16	11.22	10.34
	6 GHz 802.11ax 160MHz		12.02	12.04	12.05	12.15	12.08	12.09	12.00	12.03	11.92	9.29

Lower the screen 5 degrees. Closed mode should be reobtained. If not keep lowering in 5 degree steps.

Open (90°) to Close (0°)												
Ant	mode	Degree[°]	90	85	80	75	70	65	60	55	50	45
Main Ant	2.4 GHz 802.11b	Measured Power [dBm]	19.83	19.55	19.69	19.68	19.73	19.45	19.64	19.71	19.55	19.60
	2.4 GHz 802.11g		19.54	19.24	19.15	19.30	19.44	19.30	19.41	19.22	19.48	19.52
	2.4 GHz 802.11n		19.45	19.46	19.46	19.35	19.36	19.37	19.46	19.49	19.35	19.47
	2.4 GHz 802.11ax		19.48	19.43	19.60	19.49	19.51	19.43	19.51	19.65	19.52	19.58
	2.4 GHz 802.11n 40MHz		16.13	16.23	15.99	16.11	16.06	16.18	16.02	16.04	16.00	16.09
	2.4 GHz 802.11ax 40MHz		15.91	15.99	15.99	16.04	15.95	16.03	16.03	15.99	15.94	15.95
	5 GHz 802.11a		19.35	19.31	19.32	19.28	19.42	19.40	19.18	19.31	19.38	19.24
	5 GHz 802.11n 20MHz		19.37	19.31	19.34	19.27	19.29	19.41	19.35	19.28	19.33	19.39
	5 GHz 802.11ac 20MHz		19.48	19.33	19.32	19.28	19.43	19.32	19.31	19.41	19.35	19.37
	5 GHz 802.11ax 20MHz		19.57	19.67	19.63	19.57	19.56	19.60	19.51	19.69	19.61	19.39
	5 GHz 802.11n 40MHz		19.19	19.23	19.11	19.29	19.11	19.24	19.13	19.18	19.18	19.07
	5 GHz 802.11ac 40MHz		19.25	19.21	19.18	19.03	19.21	19.27	19.32	19.14	19.10	19.09
	5 GHz 802.11ax 40MHz		19.32	19.26	19.25	19.23	19.25	19.32	19.15	19.39	19.25	19.28
	5 GHz 802.11ac 80MHz		19.72	19.65	19.65	19.59	19.67	19.65	19.72	19.77	19.72	19.79
	5 GHz 802.11ax 80MHz		19.66	19.34	19.65	19.50	19.58	19.44	19.48	19.59	19.38	19.55
	5 GHz 802.11ac 160MHz		15.22	15.25	15.22	15.10	15.13	15.18	15.16	15.29	15.22	14.93
	5 GHz 802.11ax 160MHz		15.17	15.35	15.25	15.15	15.13	15.35	15.28	15.20	15.18	15.39
	6 GHz 802.11ax 80MHz		11.20	11.17	11.12	11.13	11.11	11.25	11.09	11.03	11.08	11.21
	6 GHz 802.11ax 160MHz		11.92	12.02	11.97	12.04	11.85	11.93	12.05	12.05	11.94	11.97
Aux Ant	2.4 GHz 802.11b	Measured Power [dBm]	19.55	19.48	19.66	19.57	19.56	19.48	19.66	19.54	19.30	19.35
	2.4 GHz 802.11g		19.38	19.36	19.33	19.43	19.28	19.45	19.31	19.43	19.30	19.20
	2.4 GHz 802.11n		19.16	19.35	19.17	19.11	19.06	19.25	19.23	19.08	19.35	19.12
	2.4 GHz 802.11ax		19.23	19.23	19.24	19.21	19.23	19.19	19.16	19.18	19.18	19.21
	2.4 GHz 802.11n 40MHz		16.37	16.40	16.37	16.39	16.36	16.46	16.47	16.40	16.52	16.40
	2.4 GHz 802.11ax 40MHz		16.78	16.38	16.61	16.44	16.69	16.48	16.72	16.51	16.68	16.42
	5 GHz 802.11a		19.32	19.22	19.35	19.22	19.22	19.26	19.18	19.14	19.20	19.16
	5 GHz 802.11n 20MHz		19.04	18.97	18.93	18.86	19.07	19.00	19.01	19.09	18.92	18.95
	5 GHz 802.11ac 20MHz		19.57	19.73	19.51	19.67	19.64	19.67	19.78	19.59	19.69	19.74
	5 GHz 802.11ax 20MHz		19.27	19.44	19.39	19.46	19.34	19.44	19.49	19.49	19.60	19.45
	5 GHz 802.11n 40MHz		19.33	19.46	19.56	19.63	19.41	19.51	19.59	19.54	19.49	19.41
	5 GHz 802.11ac 40MHz		18.94	19.05	19.03	18.94	18.98	18.95	18.87	18.99	18.93	18.84
	5 GHz 802.11ax 40MHz		18.96	18.98	19.13	18.95	19.04	19.05	19.12	19.10	19.19	19.19
	5 GHz 802.11ac 80MHz		19.23	19.09	19.26	19.03	19.25	19.18	19.11	19.25	19.17	19.25
	5 GHz 802.11ax 80MHz		19.22	19.41	19.46	19.23	19.18	19.46	19.37	19.41	19.28	19.30
	5 GHz 802.11ac 160MHz		14.68	14.88	14.83	14.86	14.74	14.91	14.92	14.94	14.92	15.06
	5 GHz 802.11ax 160MHz		14.88	15.06	14.87	14.72	14.83	14.98	14.95	14.89	14.89	14.71
	6 GHz 802.11ax 80MHz		11.12	11.17	11.03	11.25	11.12	11.12	11.17	11.07	11.27	11.23
	6 GHz 802.11ax 160MHz		12.08	12.06	11.90	12.16	12.00	11.98	12.01	12.06	11.96	12.13

Open (90°) to Close (0°)											
Ant	mode	Degree[°]	40	35	30	25	20	15	10	5	0
Main Ant	2.4 GHz 802.11b	Measured Power [dBm]	19.66	19.78	19.69	19.68	19.73	19.45	19.64	15.26	15.18
	2.4 GHz 802.11g		19.15	19.33	19.15	19.30	19.44	19.30	19.41	14.84	14.97
	2.4 GHz 802.11n		19.42	19.34	19.46	19.35	19.36	19.37	19.46	14.69	14.57
	2.4 GHz 802.11ax		19.59	19.40	19.60	19.49	19.51	19.43	19.51	15.03	15.04
	2.4 GHz 802.11n 40MHz		15.96	16.03	15.99	16.11	16.06	16.18	16.02	14.86	14.87
	2.4 GHz 802.11ax 40MHz		15.93	16.13	15.99	16.04	15.95	16.03	16.03	14.78	14.73
	5 GHz 802.11a		19.29	19.36	19.32	19.28	19.42	19.40	19.18	13.33	13.30
	5 GHz 802.11n 20MHz		19.35	19.28	19.34	19.27	19.29	19.41	19.35	13.17	13.17
	5 GHz 802.11ac 20MHz		19.28	19.29	19.32	19.28	19.43	19.32	19.31	13.35	13.26
	5 GHz 802.11ax 20MHz		19.56	19.47	19.63	19.57	19.56	19.60	19.51	14.05	14.24
	5 GHz 802.11n 40MHz		19.13	19.39	19.11	19.29	19.11	19.24	19.13	13.66	13.53
	5 GHz 802.11ac 40MHz		19.19	19.00	19.18	19.03	19.21	19.27	19.32	13.76	13.88
	5 GHz 802.11ax 40MHz		19.17	19.14	19.25	19.23	19.25	19.32	19.15	13.74	13.75
	5 GHz 802.11ac 80MHz		19.62	19.49	19.65	19.59	19.67	19.65	19.72	14.24	14.23
	5 GHz 802.11ax 80MHz		19.62	19.50	19.65	19.50	19.58	19.44	19.48	11.36	11.33
	5 GHz 802.11ac 160MHz		15.14	15.02	15.22	15.10	15.13	15.18	15.16	11.68	11.93
	5 GHz 802.11ax 160MHz		15.27	15.06	15.25	15.15	15.13	15.35	15.28	11.54	11.62
	6 GHz 802.11ax 80MHz		11.05	11.17	11.12	11.13	11.11	11.25	11.09	10.39	10.51
6 GHz 802.11ax 160MHz	11.88	12.05	11.97	12.04	11.85	11.93	12.05	9.25	9.10		
Aux Ant	2.4 GHz 802.11b	Measured Power [dBm]	19.62	19.63	19.66	19.57	19.56	19.48	19.66	15.62	15.46
	2.4 GHz 802.11g		19.37	19.48	19.33	19.43	19.28	19.45	19.31	15.60	15.53
	2.4 GHz 802.11n		19.21	19.08	19.17	19.11	19.06	19.25	19.23	15.48	15.58
	2.4 GHz 802.11ax		19.20	19.24	19.24	19.21	19.23	19.19	19.16	15.43	15.56
	2.4 GHz 802.11n 40MHz		16.34	16.33	16.37	16.39	16.36	16.46	16.47	14.97	15.04
	2.4 GHz 802.11ax 40MHz		16.67	16.38	16.61	16.44	16.69	16.48	16.72	15.22	15.26
	5 GHz 802.11a		19.40	19.19	19.35	19.22	19.22	19.26	19.18	12.90	12.97
	5 GHz 802.11n 20MHz		18.93	18.82	18.93	18.86	19.07	19.00	19.01	12.63	12.59
	5 GHz 802.11ac 20MHz		19.42	19.64	19.51	19.67	19.64	19.67	19.78	12.72	12.65
	5 GHz 802.11ax 20MHz		19.47	19.37	19.39	19.46	19.34	19.44	19.49	11.69	11.77
	5 GHz 802.11n 40MHz		19.66	19.55	19.56	19.63	19.41	19.51	19.59	13.26	13.16
	5 GHz 802.11ac 40MHz		18.98	18.85	19.03	18.94	18.98	18.95	18.87	11.90	11.83
	5 GHz 802.11ax 40MHz		19.20	18.94	19.13	18.95	19.04	19.05	19.12	11.78	11.87
	5 GHz 802.11ac 80MHz		19.27	19.07	19.26	19.03	19.25	19.18	19.11	11.64	11.89
	5 GHz 802.11ax 80MHz		19.55	19.31	19.46	19.23	19.18	19.46	19.37	11.21	11.40
	5 GHz 802.11ac 160MHz		14.87	14.79	14.83	14.86	14.74	14.91	14.92	11.77	11.61
	5 GHz 802.11ax 160MHz		14.82	14.73	14.87	14.72	14.83	14.98	14.95	11.53	11.40
	6 GHz 802.11ax 80MHz		10.95	11.26	11.03	11.25	11.12	11.12	11.17	10.34	10.43
6 GHz 802.11ax 160MHz	11.94	12.18	11.90	12.16	12.00	11.98	12.01	9.35	9.19		

Close the screen in 1 degree steps until convertible mode is reobtained

Open(20°) to Close(0°)												
Ant	mode	Degree[°]	20	19	18	17	16	15	14	13	12	11
Main Ant	2.4 GHz 802.11b	Measured Power [dBm]	19.48	19.53	19.72	19.57	19.51	19.79	19.71	19.74	19.68	19.59
	2.4 GHz 802.11g		19.41	19.31	19.33	19.24	19.42	19.21	19.27	19.23	19.39	19.43
	2.4 GHz 802.11n		19.41	19.44	19.35	19.27	19.25	19.32	19.42	19.43	19.36	19.49
	2.4 GHz 802.11ax		19.37	19.59	19.53	19.32	19.50	19.53	19.42	19.56	19.50	19.51
	2.4 GHz 802.11n 40MHz		16.08	16.12	16.22	16.16	16.27	16.04	16.17	16.04	16.11	16.12
	2.4 GHz 802.11ax 40MHz		15.86	16.05	16.05	15.81	15.89	15.94	15.98	16.14	15.94	15.96
	5 GHz 802.11a		19.32	19.48	19.29	19.40	19.33	19.37	19.29	19.40	19.33	19.25
	5 GHz 802.11n 20MHz		19.33	19.42	19.46	19.50	19.37	19.45	19.29	19.41	19.34	19.34
	5 GHz 802.11ac 20MHz		19.34	19.26	19.26	19.46	19.34	19.39	19.25	19.29	19.42	19.31
	5 GHz 802.11ax 20MHz		19.40	19.54	19.54	19.54	19.44	19.48	19.63	19.52	19.54	19.47
	5 GHz 802.11n 40MHz		19.01	19.14	19.17	19.26	19.15	19.00	19.19	19.26	19.07	19.02
	5 GHz 802.11ac 40MHz		19.14	19.29	19.06	19.22	19.28	19.19	19.29	19.32	19.06	19.10
	5 GHz 802.11ax 40MHz		19.24	19.11	19.27	19.45	19.34	19.27	19.26	19.20	19.07	19.39
	5 GHz 802.11ac 80MHz		19.70	19.63	19.69	19.76	19.63	19.75	19.61	19.60	19.72	19.62
	5 GHz 802.11ax 80MHz		19.48	19.57	19.39	19.55	19.47	19.57	19.47	19.54	19.59	19.53
	5 GHz 802.11ac 160MHz		15.14	15.11	15.12	15.23	15.29	15.10	15.15	15.22	15.16	15.05
	5 GHz 802.11ax 160MHz		15.38	15.17	15.28	15.10	15.30	15.20	15.19	15.34	15.26	15.45
	6 GHz 802.11ax 80MHz		11.10	11.07	11.05	11.08	11.06	11.20	11.11	11.13	11.02	11.11
	6 GHz 802.11ax 160MHz		12.57	12.60	12.49	12.46	12.50	12.44	12.58	12.61	12.41	12.39
Aux Ant	2.4 GHz 802.11b	Measured Power [dBm]	19.46	19.59	19.52	19.55	19.56	19.48	19.55	19.46	19.40	19.55
	2.4 GHz 802.11g		19.31	19.30	19.43	19.37	19.30	19.33	19.38	19.25	19.45	19.27
	2.4 GHz 802.11n		19.17	19.29	19.17	19.13	19.06	19.28	19.21	19.26	19.24	19.19
	2.4 GHz 802.11ax		19.11	19.25	19.27	19.09	19.14	19.22	19.18	19.27	19.21	19.08
	2.4 GHz 802.11n 40MHz		16.47	16.27	16.33	16.26	16.51	16.30	16.18	16.27	16.46	16.50
	2.4 GHz 802.11ax 40MHz		16.65	16.73	16.61	16.66	16.42	16.56	16.57	16.50	16.74	16.36
	5 GHz 802.11a		19.24	19.15	19.33	19.30	19.12	19.26	19.20	19.11	19.10	19.06
	5 GHz 802.11n 20MHz		19.08	18.99	19.00	19.14	19.11	19.15	19.08	19.00	18.97	19.01
	5 GHz 802.11ac 20MHz		19.66	19.76	19.62	19.57	19.76	19.83	19.72	19.61	19.56	19.76
	5 GHz 802.11ax 20MHz		19.45	19.57	19.40	19.52	19.47	19.49	19.49	19.47	19.46	19.40
	5 GHz 802.11n 40MHz		19.49	19.45	19.52	19.44	19.57	19.51	19.39	19.56	19.39	19.59
	5 GHz 802.11ac 40MHz		18.88	18.88	18.92	19.03	18.94	18.90	18.89	19.09	19.09	19.09
	5 GHz 802.11ax 40MHz		19.03	19.05	19.13	19.18	19.03	19.06	18.99	18.99	19.17	19.08
	5 GHz 802.11ac 80MHz		19.05	19.23	19.32	19.17	19.16	19.10	19.11	19.10	19.01	19.18
	5 GHz 802.11ax 80MHz		19.36	19.23	19.38	19.35	19.25	19.31	19.17	19.39	19.40	19.40
	5 GHz 802.11ac 160MHz		15.05	14.99	15.03	14.96	14.98	14.97	14.91	14.81	14.94	14.88
	5 GHz 802.11ax 160MHz		14.77	14.85	14.84	14.64	14.66	14.85	14.99	14.88	14.93	14.84
	6 GHz 802.11ax 80MHz		11.28	11.12	11.22	11.23	11.27	11.24	11.12	11.25	11.05	11.02
	6 GHz 802.11ax 160MHz		12.07	12.05	11.85	12.11	11.93	12.08	11.95	12.04	12.04	11.97

Open(20°) to Close(0°)										
10	9	8	7	6	5	4	3	2	1	0
19.74	19.72	19.83	19.70	19.61	15.09	15.16	15.19	15.10	15.12	15.15
19.25	19.26	19.21	19.45	19.30	14.91	14.96	14.65	14.71	14.87	14.77
19.41	19.29	19.41	19.44	19.41	14.73	14.76	14.69	14.64	14.72	14.57
19.40	19.48	19.55	19.50	19.40	14.87	14.74	14.75	14.94	14.96	14.88
16.01	16.12	16.12	16.05	15.98	14.86	14.95	14.99	14.82	14.76	14.88
15.89	15.99	16.10	15.88	16.05	14.70	14.84	14.85	14.76	14.78	14.71
19.18	19.12	19.37	19.37	19.30	13.27	13.26	13.36	13.25	13.34	13.30
19.45	19.33	19.37	19.26	19.20	13.29	13.24	13.36	13.29	13.21	13.34
19.34	19.22	19.33	19.27	19.19	13.15	13.22	13.38	13.33	13.29	13.28
19.40	19.63	19.52	19.65	19.45	13.97	13.94	13.99	14.11	13.96	14.01
19.17	19.27	19.16	19.13	19.02	13.49	13.56	13.63	13.57	13.64	13.66
19.14	19.11	19.31	19.04	19.06	13.74	13.70	13.74	13.61	13.64	13.67
19.08	19.33	19.24	19.20	19.33	13.79	13.76	13.72	13.82	13.94	13.88
19.69	19.72	19.53	19.65	19.76	14.40	14.23	14.32	14.28	14.38	14.31
19.45	19.43	19.49	19.45	19.54	11.42	11.48	11.47	11.29	11.31	11.29
14.99	15.16	15.22	15.17	15.19	11.82	11.89	11.68	11.65	11.89	11.72
15.26	15.27	15.35	15.28	15.30	11.52	11.67	11.53	11.63	11.77	11.63
11.21	11.11	11.21	10.92	11.12	10.02	9.84	9.87	10.11	10.02	10.06
12.44	12.58	12.61	12.45	12.39	9.13	9.01	9.19	9.16	9.28	9.07
19.62	19.58	19.62	19.47	19.51	15.61	15.55	15.48	15.60	15.56	15.55
19.44	19.50	19.23	19.41	19.44	15.75	15.66	15.44	15.62	15.51	15.57
19.16	19.17	19.24	19.12	19.24	15.48	15.47	15.49	15.45	15.58	15.44
19.17	19.15	19.34	19.22	19.16	15.70	15.56	15.62	15.55	15.52	15.51
16.45	16.24	16.31	16.47	16.39	15.15	14.91	14.94	15.17	14.88	15.25
16.62	16.64	16.60	16.58	16.49	15.06	15.26	15.14	14.98	15.25	14.92
19.26	19.36	19.12	19.05	19.24	12.86	12.67	12.76	12.84	12.75	12.84
19.00	19.04	18.99	19.01	19.17	12.73	12.67	12.63	12.64	12.56	12.62
19.66	19.68	19.59	19.68	19.70	12.52	12.72	12.67	12.57	12.62	12.61
19.61	19.51	19.46	19.32	19.51	11.70	11.60	11.65	11.65	11.73	11.70
19.64	19.47	19.63	19.30	19.52	13.07	13.21	13.23	13.17	13.17	13.20
18.99	18.91	19.10	18.96	18.92	11.75	11.73	11.62	11.85	11.63	11.92
19.08	19.07	19.14	19.15	18.96	11.78	11.85	11.81	11.71	11.80	11.67
19.12	19.09	19.21	19.00	19.24	11.70	11.83	11.84	11.70	11.84	11.73
19.28	19.12	19.38	19.42	19.30	11.18	11.35	11.42	11.51	11.33	11.56
14.87	14.77	14.90	15.01	14.85	11.74	11.69	11.74	11.78	11.75	11.83
14.80	14.89	14.91	14.82	14.76	11.48	11.36	11.39	11.33	11.48	11.23
11.09	11.13	11.23	11.14	11.11	10.36	10.46	10.24	10.34	10.31	10.35
12.02	11.99	12.00	12.13	12.13	9.40	9.27	9.25	9.20	9.24	9.21

Continue lowering the screen in 1 degree steps until at least 5 degrees past where convertible mode was obtained.

Open(16°) to Close(0°)													
Ant	mode	Degree[°]	16	15	14	13	12	11	10	9	8	7	6
Main Ant	2.4 GHz 802.11b	Measured Power [dBm]	19.51	19.72	19.78	19.59	19.75	19.78	19.77	19.54	19.64	19.67	19.54
	2.4 GHz 802.11g		19.24	19.42	19.18	19.39	19.17	19.53	19.25	19.36	19.34	19.44	19.30
	2.4 GHz 802.11n		19.31	19.45	19.38	19.46	19.48	19.33	19.44	19.45	19.47	19.31	19.32
	2.4 GHz 802.11ax		19.43	19.57	19.68	19.66	19.57	19.53	19.56	19.55	19.44	19.57	19.36
	2.4 GHz 802.11n 40MHz		16.26	16.16	16.09	16.05	16.03	16.01	16.25	16.09	16.06	16.15	16.18
	2.4 GHz 802.11ax 40MHz		16.07	15.99	16.00	15.92	16.00	16.08	15.99	15.84	16.02	16.11	16.06
	5 GHz 802.11a		19.44	19.30	19.44	19.25	19.19	19.20	19.32	19.19	19.29	19.24	19.41
	5 GHz 802.11n 20MHz		19.53	19.37	19.22	19.41	19.29	19.34	19.23	19.36	19.29	19.39	19.52
	5 GHz 802.11ac 20MHz		19.37	19.40	19.29	19.46	19.40	19.45	19.37	19.36	19.33	19.45	19.35
	5 GHz 802.11ax 20MHz		19.57	19.46	19.64	19.48	19.46	19.73	19.62	19.55	19.48	19.56	19.65
	5 GHz 802.11n 40MHz		19.17	19.13	19.13	19.18	19.29	19.09	19.19	19.05	19.13	19.19	19.12
	5 GHz 802.11ac 40MHz		19.22	19.35	19.22	19.18	19.19	19.19	19.19	19.14	19.19	19.20	19.23
	5 GHz 802.11ax 40MHz		19.25	19.25	19.29	19.28	19.36	19.09	19.23	19.18	19.20	19.22	19.25
	5 GHz 802.11ac 80MHz		19.62	19.68	19.73	19.67	19.54	19.65	19.65	19.72	19.53	19.60	19.63
	5 GHz 802.11ax 80MHz		19.40	19.31	19.43	19.39	19.56	19.38	19.37	19.38	19.52	19.30	19.42
	5 GHz 802.11ac 160MHz		15.08	15.07	15.22	15.12	14.96	15.16	15.15	15.11	15.04	15.13	15.14
	5 GHz 802.11ax 160MHz		15.17	15.21	15.14	15.11	15.23	15.21	15.19	15.11	15.27	15.34	15.12
Aux Ant	6 GHz 802.11ax 80MHz	Measured Power [dBm]	11.27	11.12	11.19	11.06	11.09	11.18	11.11	11.14	11.18	11.10	11.19
	6 GHz 802.11ax 160MHz		12.45	12.52	12.46	12.52	12.42	12.64	12.51	12.49	12.55	12.59	12.51
	2.4 GHz 802.11b		19.58	19.47	19.45	19.52	19.43	19.60	19.52	19.45	19.45	19.57	19.49
	2.4 GHz 802.11g		19.34	19.42	19.38	19.45	19.34	19.29	19.41	19.40	19.39	19.36	19.42
	2.4 GHz 802.11n		19.23	19.08	19.14	19.25	19.27	19.19	19.16	19.30	19.25	19.31	19.14
	2.4 GHz 802.11ax		19.33	19.35	19.01	19.13	19.20	19.04	19.12	19.08	19.20	19.07	19.33
	2.4 GHz 802.11n 40MHz		16.29	16.46	16.36	16.20	16.38	16.38	16.42	16.39	16.24	16.50	16.36
	2.4 GHz 802.11ax 40MHz		16.69	16.42	16.53	16.49	16.58	16.61	16.63	16.61	16.69	16.65	16.76
	5 GHz 802.11a		19.18	19.23	19.28	19.13	19.29	19.08	19.24	19.11	19.24	19.03	19.13
	5 GHz 802.11n 20MHz		18.91	19.05	19.05	19.13	18.96	19.05	19.13	19.19	18.93	19.07	18.94
	5 GHz 802.11ac 20MHz		19.80	19.61	19.62	19.69	19.57	19.73	19.59	19.74	19.62	19.70	19.77
	5 GHz 802.11ax 20MHz		19.54	19.51	19.46	19.61	19.49	19.38	19.54	19.63	19.51	19.42	19.64
	5 GHz 802.11n 40MHz		19.49	19.50	19.59	19.54	19.57	19.45	19.58	19.47	19.55	19.60	19.44
	5 GHz 802.11ac 40MHz		18.92	18.94	18.81	18.99	18.78	18.95	18.85	18.86	18.88	18.92	18.88
	5 GHz 802.11ax 40MHz		19.12	19.13	19.06	19.21	18.98	19.08	19.14	19.22	19.10	19.16	19.13
	5 GHz 802.11ac 80MHz		19.27	19.09	19.00	19.23	19.34	19.22	19.05	19.25	19.30	19.09	19.24
	5 GHz 802.11ax 80MHz		19.24	19.20	19.22	19.26	19.18	19.40	19.19	19.28	19.16	19.36	19.23
	5 GHz 802.11ac 160MHz		15.00	15.00	14.93	14.88	14.95	14.95	14.93	14.93	15.01	14.90	14.96
	5 GHz 802.11ax 160MHz		14.84	14.82	14.98	14.80	14.92	14.70	14.96	14.70	14.83	14.85	14.88
	6 GHz 802.11ax 80MHz		11.23	11.09	11.05	11.20	11.18	11.05	11.11	11.13	11.17	11.11	11.17
	6 GHz 802.11ax 160MHz		12.00	11.93	12.16	11.95	11.98	12.08	12.02	11.90	12.14	12.19	12.10

Open(16°) to Close(0°)								
Ant	mode	Degree[°]	5	4	3	2	1	0
Main Ant	2.4 GHz 802.11b	Measured Power [dBm]	15.06	15.08	15.13	15.10	15.04	15.08
	2.4 GHz 802.11g		14.76	14.92	14.61	14.85	14.76	14.80
	2.4 GHz 802.11n		14.70	14.79	14.71	14.77	14.65	14.65
	2.4 GHz 802.11ax		14.89	14.98	15.02	15.00	14.92	14.96
	2.4 GHz 802.11n 40MHz		14.72	14.66	14.85	14.66	14.84	14.76
	2.4 GHz 802.11ax 40MHz		14.73	14.87	14.71	14.70	14.85	14.66
	5 GHz 802.11a		13.31	13.36	13.22	13.36	13.21	13.18
	5 GHz 802.11n 20MHz		13.28	13.24	13.38	13.11	13.39	13.36
	5 GHz 802.11ac 20MHz		13.38	13.38	13.27	13.19	13.35	13.29
	5 GHz 802.11ax 20MHz		14.09	14.06	14.08	14.04	14.17	14.19
	5 GHz 802.11n 40MHz		13.65	13.63	13.61	13.73	13.63	13.54
	5 GHz 802.11ac 40MHz		13.57	13.55	13.69	13.61	13.70	13.56
	5 GHz 802.11ax 40MHz		13.88	13.86	13.73	13.89	13.82	13.77
	5 GHz 802.11ac 80MHz		14.36	14.34	14.38	14.39	14.30	14.30
	5 GHz 802.11ax 80MHz		11.20	11.37	11.32	11.41	11.20	11.20
	5 GHz 802.11ac 160MHz		11.70	11.98	11.63	11.80	11.68	11.61
	5 GHz 802.11ax 160MHz		11.64	11.70	11.72	11.69	11.54	11.64
	6 GHz 802.11ax 80MHz		10.09	10.03	10.07	10.06	10.17	10.07
	6 GHz 802.11ax 160MHz		9.19	9.32	9.08	9.21	9.06	9.13
Aux Ant	2.4 GHz 802.11b	Measured Power [dBm]	15.66	15.65	15.52	15.51	15.56	15.60
	2.4 GHz 802.11g		15.58	15.52	15.52	15.49	15.66	15.52
	2.4 GHz 802.11n		15.36	15.67	15.46	15.65	15.41	15.35
	2.4 GHz 802.11ax		15.59	15.53	15.60	15.56	15.58	15.61
	2.4 GHz 802.11n 40MHz		15.22	14.93	15.08	14.84	15.13	15.23
	2.4 GHz 802.11ax 40MHz		15.05	15.17	14.94	15.24	14.88	15.08
	5 GHz 802.11a		12.88	12.78	12.79	12.84	12.78	12.76
	5 GHz 802.11n 20MHz		12.66	12.61	12.58	12.46	12.58	12.62
	5 GHz 802.11ac 20MHz		12.51	12.58	12.63	12.56	12.66	12.61
	5 GHz 802.11ax 20MHz		11.60	11.82	11.72	11.80	11.60	11.66
	5 GHz 802.11n 40MHz		13.22	13.20	13.23	13.09	13.22	13.26
	5 GHz 802.11ac 40MHz		11.81	11.59	11.95	11.65	11.82	11.78
	5 GHz 802.11ax 40MHz		11.64	11.77	11.78	11.75	11.74	11.78
	5 GHz 802.11ac 80MHz		11.78	11.74	11.68	11.91	11.75	11.76
	5 GHz 802.11ax 80MHz		11.50	11.33	11.55	11.24	11.43	11.49
	5 GHz 802.11ac 160MHz		11.85	11.76	11.75	11.79	11.74	11.83
	5 GHz 802.11ax 160MHz		11.34	11.52	11.39	11.47	11.28	11.32
	6 GHz 802.11ax 80MHz		10.44	10.32	10.40	10.30	10.44	10.39
	6 GHz 802.11ax 160MHz		9.21	9.32	9.10	9.15	9.26	9.24

5.3 Conclusion

We verified that when the magnetic sensor of the device goes from convertible mode (0 degrees) to laptop mode (90 degrees), it goes from reduction power to max power at an angle of 6 degrees. In addition, it was verified as above that when the laptop mode (90 degrees) is converted into the convertible mode (0 degrees), the maximum power is in a reduction power state at 5 degrees.

6. SAR Spot Check Test Result

6.1 SAR Spot Check Test Result for the highest SAR case of the original model

Spot check testing was performed as follows for the 2.4GHz WLAN mode, which is the highest SAR result in the original model's SAR report [no. HCT-SR_2206-FC004, HCT-SR_2206-FC003].

The body simulating material is calibrated by HCT using the DAKS 3.5 to determine the conductivity and permittivity.

Table for Head Tissue Verification									
Date of Tests	Tissue Temp. (°C)	Tissue Type	Freq. (MHz)	Measured Conductivity σ (S/m)	Measured Dielectric Constant, ϵ	Target Conductivity σ (S/m)	Target Dielectric Constant, ϵ	% dev σ	% dev ϵ
10/20/2025	21.8	2450H	2400	1.802	39.319	1.756	39.290	+ 2.59	+ 0.07
			2450	1.833	39.022	1.800	39.200	+ 1.86	- 0.46
			2500	1.875	39.142	1.855	39.140	+ 1.09	+ 0.01
11/12/2025	21.7	5 750H	5750	5.335	34.520	5.219	35.360	+ 2.23	- 2.38
			5800	5.254	34.544	5.270	35.300	- 0.30	- 2.14
			5825	5.239	34.438	5.296	35.270	- 1.08	- 2.36
11/12/2025	21.7	6 500H	5930	5.288	34.978	5.407	35.170	- 2.19	- 0.55
			6000	5.428	34.812	5.480	35.100	- 0.95	- 0.82
			6300	5.808	34.389	5.834	34.740	- 0.45	- 1.01
			6500	6.076	34.304	6.070	34.500	+ 0.10	- 0.57
			6700	6.368	33.755	6.302	34.260	+ 1.04	- 1.48
			7000	6.686	33.308	6.650	33.900	+ 0.54	- 1.75
			7150	6.849	33.340	6.827	33.720	+ 0.32	- 1.13

6.2 System Check

Prior to assessment, the system is verified to the $\pm 10\%$ of the specifications at 2 450 MHz by using the system Check kit. (Graphic Plots Attached)

Prior the SAR assessment, the system is verified using the procedures and dipole sources as defined by IEC 62209-1 and IEC 62209-2.

The system is verified to $\pm 10\%$ of the SAR measurement on the reference dipole at the time of calibration by the calibration facility.

Input Power: 50 mW

Freq. [MHz]	Date	Probe (S/N)	Dipole (S/N)	Liquid	Amb. Temp. [°C]	Liquid Temp. [°C]	1 W Target SAR _{1g} (SPEAG) [W/kg]	50mW Measured SAR _{1g} [W/kg]	1 W Normalized SAR _{1g} [W/kg]	Deviation [%]	Limit [%]
2 450	10/20/2025	7732	1049	Head	21.8	21.8	52.6	2.72	54.4	+ 3.42	± 10
5 750	11/12/2025	7370	1253	Head	21.7	21.7	80.6	3.76	75.2	- 6.70	± 10
6 500	11/12/2025	7370	1012	Head	21.7	21.7	290	13.9	278	-4.14	± 10

6.3 Incident Power Density Verification for 10GHz

Input Power: 50 mW

Freq. [GHz]	Date	Probe (S/N)	Dipole (S/N)	Amb. Temp. [°C]	Normal psPD (W/m ² over 4 cm ²)			Deviation [dB]	Total psPD (W/m ² over 4 cm ²)			Deviation [dB]
					Measured	Normalized	Target		Measured	Normalized	Target	
10	11/12/2025	9528	1018	21.7	30.2	60.4	56.5	+ 0.29	30.4	60.8	56.5	+ 0.32

7. SAR TEST DATA SUMMARY

7.1 Body SAR Measurement Results for Tablet mode

2.4 GHz WLAN Body SAR																
Frequency		Mode	Band width (MHz)	Data Rate (Mbps)	Tune-Up Limit (dBm)	Meas. Power (dBm)	Power Drift (dB)	Test Position	Ant Config.	Duty Cycle	Distance (mm)	Meas. SAR (W/kg)	Scaling Factor	Scaling Factor (Duty)	Reported SAR (W/kg)	Plot No.
MHz	Ch.															
2 437	6	802.11b	20	1	16.50	16.26	-0.07	Edge 4 Tilt	Main	99.5	0	1.160	1.057	1.005	1.232	1

5 GHz WLAN Body SAR																
Frequency		Mode	Band width (MHz)	Data Rate (Mbps)	Tune-Up Limit (dBm)	Meas. Power (dBm)	Power Drift (dB)	Test Position	Ant Config.	Duty Cycle	Distance (mm)	Meas. SAR (W/kg)	Scaling Factor	Scaling Factor (Duty)	Reported SAR (W/kg)	Plot No.
MHz	Ch.															
5 775	155	802.11ac	80	MCS0	14.0	13.69	-0.06	Edge 2 Tilt	Aux	98.9	0	0.904	1.074	1.011	0.982	2

6 GHz WLAN Body SAR																
Frequency		Mode	Band width (MHz)	Data Rate (Mbps)	Tune-Up Limit (dBm)	Meas. Power (dBm)	Power Drift (dB)	Test Position	Ant Config.	Duty Cycle	Distance (mm)	Meas. SAR (W/kg)	Scaling Factor	Scaling Factor (Duty)	Reported SAR (W/kg)	Plot No.
MHz	Ch.															
6 025	15	802.11ax	160	MCS0	10.75	10.75	0.01	Edge 2 Tilt	Aux	99.0	0	0.566	1.000	1.010	0.572	3

7.2 Absorbed Power Density Measurement Results for Tablet mode

6 GHz WLAN Hotspot Absorbed Power Density													
Frequency		Mode	Ant.	Band width (MHz)	Data Rate (Mbps)	Tune-Up Limit (dBm)	Meas. Power (dBm)	Power Drift (dB)	Test Position	Distance (mm)	Meas. APD 4 cm ²		Plot No.
MHz	Ch.										(mW/cm ²)	(mW/cm ²)	
6 025	15	802.11ax	H	160	MCS0	10.75	10.75	0.01	Edge 2 Tilt	0	0.467		3

7.3 Power Density Measurement Results for Tablet mode

6 GHz WLAN Power Density															
Frequency		Mode	Band width (MHz)	Data Rate (Mbps)	Power Drift (dB)	Distance (mm)	Test Position	Ant Config.	Grid Step (λ)	Scaling Factor for Measurement Uncertainty per IEC 62479	Normal psPD (mW/cm ²)	Scaled Normal psPD (mW/cm ²)	Total psPD (mW/cm ²)	Reported 4 cm ² psPD (mW/cm ²)	Plot No.
MHz	Ch.														
6 025	15	802.11ax	160	MCS0	0.06	2	Edge 2 Tilt	Aux	0.05	1.116	0.325	0.363	0.436	0.487	4
47 CFR § 1.1310 – Safety Limit Spatial Average Uncontrolled Exposure/ General Population										Power Density 1mW/cm ² Averaged over 4cm ²					

7.2 SAR Test Notes

General Notes:

1. The test data reported are the worst-case SAR values according to test procedures specified in FCC KDB Publication 616217 D04v01r02 and KDB Publication 447498 D01v06
2. Batteries are fully charged at the beginning of the SAR measurements.
3. Liquid tissue depth was at least 15.0 cm for all frequencies.
4. The manufacturer has confirmed that the device(s) tested have the same physical, mechanical and thermal characteristics and are within operational tolerances expected for production units.
- 5 SAR results were scaled to the maximum allowed power to demonstrate compliance per FCC KDB 447498 D01v06.
6. The SAR measurement results for the magnetic sensor change approval were conducted at the worst-case conditions for the 2.4GHz, 5GHz, and 6GHz frequency bands of the Basic Model approval results(Report no: HCT-SR_2206-FC004, HCT-SR_2206-FC003). The test results were not higher than the measurement results of the Basic Model in any case.

8. MEASUREMENT UNCERTAINTY

The measured SAR was <1.5 W/kg for 1g SAR and <3.75 W/kg For 10g SAR for all frequency Bands. Therefore, per KDB Publication 865664 D01v01r04, the extended measurement uncertainty analysis per IEEE1528-2013 was not required.

For SAR Measurement Uncertainty for Frequencies Above 6 GHz

Measurement Uncertainty for handset SAR test According to IEEE 1528 and IEC 62209-1528 (6 - 10 GHz range)									
a	b	c	d	e	f	g	h = c x f / e	i = c x g / e	k
Source of uncertainty	Symbol	Uncertainty ± %	Probability distribution	Div.	c _i	c _i	Standard Uncertainty	Standard Uncertainty	v _i or v _{eff}
Description					(1 g)	(10 g)	± % (1 g)	± % (10 g)	
Measurement system									
Probe calibration	CF	18.60	N	2	1	1	9.30	9.30	∞
Probe Calibration Drift	CFdrift	1.70	N	1	1	1	1.00	1.00	∞
Probe Linearity	LIN	4.70	R	1.73	1.00	1.00	2.71	2.71	∞
Broadband Signal	BBS	3.00	R	1.73	1.00	1.00	1.73	1.73	∞
Probe Isotropy	ISO	7.60	R	1.73	1	1	4.39	4.39	∞
Data Acquisition	DAE	2.40	N	1	1	1	2.40	2.40	∞
RF Ambient	AMB	1.80	N	1	1	1	1.80	1.80	∞
Probe Positioning	Δ _{sys}	0.20	N	1	0.33	0.33	0.07	0.07	∞
Data Processing	DAT	3.50	N	1	1	1	3.50	3.50	∞
Phantom and Device Errors									
Conductivity (meas.)DAK	LIQ(σ)	2.50	N	1	0.78	0.71	1.95	1.78	∞
Conductivity (temp.)BB	LIQ(Tσ)	3.40	R	1.73	0.78	0.71	1.53	1.39	∞
Phantom Permittivity	EPS	14.00	R	1.73	0.25	0.25	2.02	2.02	∞
Distance DUT - TSL	DAS	2.00	N	1	2	2	4.00	4.00	∞
Device Holder	H	3.60	N	1	1	1	3.60	3.60	∞
DUT Modulation	MOD	2.40	R	1.73	1	1	1.39	1.39	∞
DUT drift	RFdrift	2.50	N	1	1	1	2.50	2.50	∞
Deviation to Target	C(ε, σ)	1.90	N	1	1	0.84	1.90	1.60	∞
SAR scaling	C(R)	0.00	R	1.73	1	1	0.00	0.00	∞
Combined standard uncertainty	u(ΔSAR)		RSS				13.72	13.65	
Expanded uncertainty (95% confidence interval)	U		k = 2				27.44	27.30	

For Power Density Measurements Uncertainty for Frequencies Above 6GHz

DASY6 Uncertainty Budget for PD (avg $\geq 4\text{cm}^2$) Evaluation Distances to the Antennas $\geq \lambda/25$ in Compliance with IEC/IEEE 63195						
Source of uncertainty Description	Uncertainty ($\pm\text{dB}$)	Probability distribution	Div.	c/	Standard Uncertainty ($\pm\text{dB}$)	(vi) veff
Uncertainty terms dependent on the measurement system						
Calibration	0.49	N	1	1	0.49	∞
Probe correction	0.00	R	1.73	1	0.00	∞
Frequency response (BW $\leq 1\text{ GHz}$)	0.20	R	1.73	1	0.12	∞
Sensor cross coupling	0.00	R	1.73	1	0.00	∞
Isotropy	0.50	R	1.73	1	0.29	∞
Linearity	0.20	R	1.73	1	0.12	∞
Probe scattering	0.00	R	1.73	1	0.00	∞
Probe positioning offset	0.30	R	1.73	1	0.17	∞
Probe positioning repeatability	0.04	N	1	1	0.04	∞
Sensor mechanical offset	0.00	N	1	1	0.00	∞
Probe spatial resolution	0.00	N	1	1	0.00	∞
Field impedance dependence	0.00	N	1	1	0.00	∞
Measurement drift	0.05	N	1	1	0.05	∞
Amplitude and phase noise	0.04	N	1	1	0.04	∞
Measurement area truncation	0.00	N	1	1	0.00	∞
Data acquisition	0.03	N	1	1	0.03	∞
Sampling	0.00	N	1	1	0.00	∞
Field reconstruction	0.60	N	1	1	0.60	∞
Signal-to-Noise Ratio	0.00	N	1	1	0.00	∞
Spatial averaging	0.10	N	1	1	0.10	∞
Uncertainty terms dependent on the DUT and environmental factors						
Probe coupling with DUT	0.00	R	1.73	1	0.00	∞
Modulation response	0.40	R	1.73	1	0.23	∞
Integration time	0.00	R	1.73	1	0.00	∞
Response time	0.00	N	1.73	1	0.00	∞
Device holder influence	0.10	R	1.73	1	0.06	∞
DUT alignment	0.00	R	1.73	1	0.00	∞
RF ambient conditions	0.04	R	1.73	1	0.02	∞
Laboratory Temperature	0.05	R	1.73	1	0.03	∞
Laboratory Reflections	0.04	R	1.73	1	0.02	∞
Immunity /secondary reception	0.00	R	1.73	1	0.00	∞
Drift of the DUT	-	R	1.73	1	-	∞
Combined uncertainty ($k=1$)					0.75	∞
Expanded uncertainty($k=2$)					1.51	

9. SAR TEST EQUIPMENT

Manufacturer	Type / Model	S/N	Calib. Date	Calib.Interval	Calib.Due
SPEAG	ELI Phantom	-	N/A	N/A	N/A
HP	SAR System Control PC	-	N/A	N/A	N/A
Staubli 5	CS8Cspeag-TX90	F17/ 59RAA1/ C/ 01	N/A	N/A	N/A
Staubli 5	TX90 Xlspeag	F17/ 59RAA1/ A/ 01	N/A	N/A	N/A
Staubli 5	Teach Pendant (Joystick)	011578	N/A	N/A	N/A
TESTO 5	175-H1/Thermometer	40331922309	12/26/2024	Annual	12/26/2025
Staubli 8	CS8Cspeag-TX60	F/20/0018446/C/001	N/A	N/A	N/A
Staubli 8	TX60 Xlspeag	F10/5D1CA1/A/01	N/A	N/A	N/A
Staubli 8	Teach Pendant (Joystick)	020885	N/A	N/A	N/A
TESTO 8	175-H1/Thermometer	44606559906	03/20/2025	Annual	03/20/2026
Staubli 13	CS9spe-TX2-60	F/21/0029145/C/001	N/A	N/A	N/A
Staubli 13	TX2-60 Lspe	F/21/0029145/A/001	N/A	N/A	N/A
Staubli 13	Teach Pendant (Joystick)	D21144507C	N/A	N/A	N/A
TESTO 13	608-H1/Thermometer	2183499992	12/05/2024	N/A	12/05/2025
SPEAG	DAE4	869	03/19/2025	Annual	03/19/2026
SPEAG	DAE4ip	1867	05/21/2025	Annual	05/21/2026
SPEAG	DAE4	1629	08/13/2025	Annual	08/13/2026
SPEAG	EX3DV4	7732	06/25/2025	Annual	06/25/2026
SPEAG	EX3DV4	7370	06/25/2025	Annual	06/25/2026
SPEAG	EUmmWave	9528	05/21/2025	Annual	05/21/2026
SPEAG	Dipole D2450V2	1049	03/13/2025	Annual	03/13/2026
SPEAG	Dipole D5GHzV2	1253	09/26/2025	Biennial	09/26/2026
SPEAG	Dipole D6.5GHzV2	1012	09/10/2025	Annual	09/10/2026
SPEAG	5G Power Verification Source 10GHz	1018	04/11/2025	Annual	04/11/2026
Agilent	Power Meter E4419B	MY41291386	09/13/2025	Annual	09/13/2026
Agilent	Power Meter N1911A	MY45101406	05/19/2025	Annual	05/19/2026
Agilent	Power Sensor 8481A	SG1091286	09/09/2025	Annual	09/09/2026
H.P	Power Sensor 8481A	MY41090873	01/13/2025	Annual	01/13/2026
Agilent	11636B/Power Divider	58698	01/13/2025	Annual	01/13/2026
SPEAG	DAKS 3.5	1038	01/20/2025	Annual	01/20/2026
KEYSIGHT	MXA Signal Analyzer	MY49100108	01/07/2025	Annual	01/07/2026
H.P	Network Analyzer /8753E	JP38451384	08/19/2025	Annual	08/19/2026
Protek	NETWORK ANALYZER	X11-15305	02/10/2025	Annual	02/10/2026
Agilent	SIGNAL GENERATOR N5182A	MY47070230	03/18/2025	Annual	03/18/2026
EMPOWER	RF Power Amplifier	1084	05/20/2025	Annual	05/20/2026
MICRO LAB	LP Filter / LA-30N	-	09/15/2025	Annual	09/15/2026
Agilent	Attenuator (3dB) 8693B	MY39260298	08/18/2025	Annual	08/18/2026
HP	Attenuator (20dB) 8493C	09271	08/18/2025	Annual	08/18/2026
RF KOREA	Attenuator (30dB)	A-0830	06/24/2025	Annual	06/24/2026
Agilent	Directional Bridge 86205A	3140A04581	04/18/2025	Annual	04/18/2026
HP	Dual Directional Coupler	16072	09/15/2025	Annual	09/15/2026

* The E-field probe was calibrated by SPEAG, by the waveguide technique procedure. Dipole Verification measurement is performed by HCT Lab. before each test. The brain/body simulating material is calibrated by HCT using the DAKS 3.5 to determine the conductivity and permittivity (dielectric constant) of the brain/body-equivalent material.

10. CONCLUSION

The SAR measurement for Class II permissive change indicates that the EUT complies with the RF radiation exposure limits of the ANSI/ IEEE C95.1 - 2005.

These measurements are taken to simulate the RF effects exposure under worst-case conditions. Precise laboratory measures were taken to assure repeatability of the tests.

11. REFERENCES

- [1] Federal Communications Commission, ET Docket 93-62, Guidelines for Evaluating the Environmental Effects of Radio frequency Radiation, Aug. 1996.
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Appendix A. SAR Setup Photos

Please refer to test DUT Ant. Information & setup photo file no. as follows:

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