

FCC SAR TEST REPORT

FCC ID : B94-MT7925B22MP
Equipment : 2TX 11be (WiFi7) BW160 + BT/BLE Combo Card
Brand Name : HP
Model Name : MT7925B22M
Applicant : HP Inc.
1501 Page Mill Road, Palo Alto CA, 94304, USA
Standard : FCC 47 CFR Part 2 (2.1093)

The product was installed into Convertible PC (Brand Name: HP, Model Name: TPN-C175) during test.

The product was received on Nov. 13, 2023 and testing was started from Nov. 17, 2023 and completed on Nov. 18, 2023. We, SPORTON INTERNATIONAL INC., would like to declare that the tested sample provide by manufacturer and the test data has been evaluated in accordance with the test procedures given in 47 CFR Part 2.1093 and FCC KDB and has been pass the FCC requirement.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. Laboratory, the test report shall not be reproduced except in full.



Approved by: Cona Huang / Deputy Manager



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Table of Contents

1. Statement of Compliance	4
2. Guidance Applied.....	4
3. Equipment Under Test (EUT) Information.....	5
3.1 General Information	5
3.2 Sensor Triggering angle and power verification	6
4. RF Exposure Limits.....	13
4.1 Uncontrolled Environment.....	13
4.2 Controlled Environment.....	13
4.3 RF Exposure limit for above 6GHz.....	14
5. Specific Absorption Rate (SAR).....	15
5.1 Introduction	15
5.2 SAR Definition.....	15
6. System Description and Setup	16
6.1 Test Site Location.....	16
6.2 E-Field Probe.....	17
6.3 Data Acquisition Electronics (DAE)	17
6.4 Phantom.....	18
6.5 Device Holder.....	19
7. Measurement Procedures	20
7.1 Spatial Peak SAR Evaluation.....	20
7.2 Power Reference Measurement.....	21
7.3 Area Scan	21
7.4 Zoom Scan.....	22
7.5 Volume Scan Procedures.....	22
7.6 Power Drift Monitoring.....	22
8. Test Equipment List.....	23
9. System Verification.....	24
9.1 Tissue Verification	24
9.2 System Performance Check Results.....	25
9.3 PD System Performance Check Results.....	26
10. RF Exposure Positions.....	26
10.1 SAR Testing for Tablet.....	26
11. WiFi/Bluetooth Output Power (Unit: dBm)	27
12. Antenna Location	45
13. SAR Test Results	48
13.1 Body SAR	50
13.2 6GHz PD SAR Result	52
14. Simultaneous Transmission Analysis.....	53
14.1 Body Exposure Conditions.....	53
15. Uncertainty Assessment	54
16. References.....	57
Appendix A. Plots of SAR System Performance Check	
Appendix B. Plots of PD System Performance Check	
Appendix C. Plots of High SAR Measurement	
Appendix D. Plots of High PD Measurement	
Appendix E. DASY Calibration Certificate	
Appendix F. Test Setup Photos and Antenna Location	

History of this test report

Report No.	Version	Description	Issued Date
FA3N0307-02	01	Initial issue of report	Dec. 04, 2023

1. Statement of Compliance

The maximum results of Specific Absorption Rate (SAR) for HP Inc., 2TX 11be (WiFi7) BW160 + BT/BLE Combo Card, MT7925B22M, are as follows.

Equipment Class	Frequency Band		Highest SAR Summary	Highest Simultaneous Transmission 1g SAR (W/kg)
			Body (Separation 0mm)	
			1g SAR (W/kg)	
DTS	WLAN	2.4GHz WLAN	0.83	1.31
NII		5GHz WLAN	0.73	1.31
6XD		6GHz WLAN	0.37	1.31
DSS	2.4GHz Band	Bluetooth	0.08	1.29
Equipment Class	Frequency Band		Reported APD (mWc/m ²)	Reported PD (mWc/m ²)
6XD	WLAN	6GHz WLAN	0.23	0.52
Date of Testing:			2023/11/17 ~ 2023/11/18	

Sporton Lab is accredited to ISO 17025 by Taiwan Accreditation Foundation and the FCC designation No. TW1190 under the FCC 2.948(e) by Mutual Recognition Agreement (MRA) in FCC test. This device is in compliance with Specific Absorption Rate (SAR) for general population/uncontrolled exposure limits (1.6 W/kg for Partial-Body 1g SAR) specified in FCC 47 CFR part 2 (2.1093), Human Exposure to RF Radiation Limits (1.0 mW/cm²=10 W/m²) specified in FCC 47 CFR part 1.1310 and ANSI/IEEE C95.1-1992, and had been tested in accordance with the measurement methods and procedures specified in IEEE 1528-2013 and FCC KDB publications.

Reviewed by: Jason Wang
Report Producer: Paula Chen

2. Guidance Applied

The Specific Absorption Rate (SAR) testing specification, method, and procedure for this device is in accordance with the following standards, the below KDB standard may not including in the TAF code without accreditation.

- FCC 47 CFR Part 2 (2.1093)
- ANSI/IEEE C95.1-1992
- IEEE 1528-2013
- FCC KDB 865664 D01 SAR Measurement 100 MHz to 6 GHz v01r04
- FCC KDB 865664 D02 SAR Reporting v01r02
- FCC KDB 447498 D01 General RF Exposure Guidance v06
- FCC KDB 248227 D01 802.11 Wi-Fi SAR v02r02
- FCC KDB 616217 D04 SAR for laptop and tablets v01r02
- IEC/IEEE 62209-1528:2020
- SPEAG DASY6 System Handbook
- SPEAG DASY6 Application Note (Interim Procedure for Device Operation at 6GHz-10GHz)

3. Equipment Under Test (EUT) Information

3.1 General Information

Product Feature & Specification	
Equipment Name	2TX 11be (WiFi7) BW160 + BT/BLE Combo Card
Brand Name	HP
Model Name	MT7925B22M
FCC ID	B94-MT7925B22MP
Wireless Technology and Frequency Range	WLAN 2.4 GHz Band: 2400 MHz ~ 2483.5 MHz WLAN 5.2 GHz Band: 5150 MHz ~ 5250 MHz WLAN 5.3 GHz Band: 5250 MHz ~ 5350 MHz WLAN 5.6 GHz Band: 5470 MHz ~ 5725 MHz WLAN 5.8 GHz Band: 5725 MHz ~ 5850 MHz WLAN 5.9 GHz Band: 5850 MHz ~ 5895 MHz WLAN 6E: 5925 MHz ~ 6425 MHz, 6425 MHz~6525 MHz, 6525 MHz~6875 MHz, 6875 MHz~7125 MHz Bluetooth: 2400 MHz ~ 2483.5 MHz
Mode	WLAN: 802.11a/b/g/n/ac/ax/be HT20/HT40/VHT20/VHT40/VHT80/VHT160/HE20/HE40/HE80/HE160/EHT20/EHT40/EHT80/EHT160 Bluetooth BR/EDR/LE
Remark: - There are three antenna vendors, RF exposure evaluation selects Vendor 2 as the main test, Vendor 1/3 spot check worst case found in Vendor 2. - This device is convertible type notebook PC, and there have Laptop and Tablet two usage way, when end user is used different mode which the device will according current mode to limit different maximum power.	

Host Information	
Equipment Name	Convertible PC
Brand Name	HP
Model Name	TPN-C175
EUT Stage	Production Unit

Antenna Information									
Vendor 1	Ant. Type	PIFA	connector	20632-001R-37	Vendor 1	Ant. Type	PIFA	connector	20632-001R-37
	Model No.	Main/Tx2 DC33002X810 (WA-P-LE-02-225)				Model No.	Aux/Tx1 DC33002X800 (WA-P-LE-02-226)		
	Peak Gain (dBi)					Peak Gain (dBi)			
	2400~2483.5MHz	2.73	5725~5850MHz	1.78		2400~2483.5MHz	2.58	5725~5850MHz	2.91
	5150~5250MHz	2.41	5850~5895MHz	0.55		5150~5250MHz	2.84	5850~5895MHz	2.08
	5250~5350MHz	2.41	5925~6425MHz	1.6		5250~5350MHz	2.84	5925~6425MHz	2.97
	5470~5725MHz	2.24	5925~7125MHz	2.96		5470~5725MHz	2.91	5925~7125MHz	2.97
Vendor 2	Ant. Type	PIFA	connector	20632-001R-37	Vendor 2	Ant. Type	PIFA	connector	20632-001R-37
	Model No.	Main/Tx2 DC33002X710 (81EAB615.G21)				Model No.	Aux/Tx1 DC33002X700 (81EAB615.G22)		
	Peak Gain (dBi)					Peak Gain (dBi)			
	2400~2483.5MHz	2.51	5725~5850MHz	2.54		2400~2483.5MHz	2.48	5725~5850MHz	2.86
	5150~5250MHz	2.68	5850~5895MHz	1.54		5150~5250MHz	2.63	5850~5895MHz	2.79
	5250~5350MHz	2.73	5925~6425MHz	2.58		5250~5350MHz	2.43	5925~6425MHz	2.66
	5470~5725MHz	2.81	5925~7125MHz	2.58		5470~5725MHz	2.86	5925~7125MHz	2.79
Vendor 3	Ant. Type	PIFA	connector	20632-001R-37	Vendor 3	Ant. Type	PIFA	connector	20632-001R-37
	Model No.	Main/Tx2 DC33002X610 (260-24448)				Model No.	Aux/Tx1 DC33002X600 (260-24449)		
	Peak Gain (dBi)					Peak Gain (dBi)			
	2400~2483.5MHz	1.77	5725~5850MHz	2.33		2400~2483.5MHz	1.52	5725~5850MHz	2.91
	5150~5250MHz	2.33	5850~5895MHz	2.68		5150~5250MHz	2.88	5850~5895MHz	2.92
	5250~5350MHz	2.8	5925~6425MHz	2.87		5250~5350MHz	2.92	5925~6425MHz	2.4
	5470~5725MHz	2.78	5925~7125MHz	2.87		5470~5725MHz	2.84	5925~7125MHz	2.8

3.2 Sensor Triggering angle and power verification

General Note:

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

Step 1: With the lid is in closed mode (0 degrees), open the screen in 10 degree steps until laptop mode is obtained
 Step 2: Lower the screen 5 degrees. Closed mode should be reobtained. If not keep lowering in 5 degree steps
 Step 3: Open the screen in 1 degree steps until laptop mode is reobtained
 Step 4: Continue opening the screen in 1 degree steps until at least 5 degrees past where laptop mode was obtained
 Step 5: Then continue opening the screen in 10 degree steps until tablet mode is obtained
 Step 6: Power measurements should be taken at each step
 Step 7: Reverse this procedure going from tablet mode back down to closed mode

when the screen angle is from 0 degree to 360 degree													
Screen angle (degree) v.s. power	Wireless			WLAN Ant Main+Aux									
	Band		2.4GHz WLAN Aux	2.4GHz WLAN Main	5.3GHz WLAN Aux	5.3GHz WLAN Main	5.5GHz WLAN Aux	5.5GHz WLAN Main	5.8GHz WLAN Aux	5.8GHz WLAN Main	5.9GHz WLAN Aux	5.9GHz WLAN Main	
	Lid Close	0	standby	standby	standby	standby	standby	standby	standby	standby	standby	standby	standby
		10	standby	standby	standby	standby	standby	standby	standby	standby	standby	standby	standby
		20	standby	standby	standby	standby	standby	standby	standby	standby	standby	standby	standby
		25	standby	standby	standby	standby	standby	standby	standby	standby	standby	standby	standby
		26	standby	standby	standby	standby	standby	standby	standby	standby	standby	standby	standby
		27	standby	standby	standby	standby	standby	standby	standby	standby	standby	standby	standby
		28	standby	standby	standby	standby	standby	standby	standby	standby	standby	standby	standby
		29	standby	standby	standby	standby	standby	standby	standby	standby	standby	standby	standby
	Laptop	30	22.3	22.1	21.2	21.2	21.1	21.1	22.4	22.5	22.4	22.5	22.5
		31	22.3	22.1	21.2	21.2	21.1	21.1	22.4	22.5	22.4	22.5	22.5
		32	22.3	22.1	21.2	21.2	21.1	21.1	22.4	22.5	22.4	22.5	22.5
		33	22.3	22.1	21.2	21.2	21.1	21.1	22.4	22.5	22.4	22.5	22.5
		34	22.3	22.1	21.2	21.2	21.1	21.1	22.4	22.5	22.4	22.5	22.5
		35	22.3	22.1	21.2	21.2	21.1	21.1	22.4	22.5	22.4	22.5	22.5
		40	22.3	22.1	21.2	21.2	21.1	21.1	22.4	22.5	22.4	22.5	22.5
		50	22.3	22.1	21.2	21.2	21.1	21.1	22.4	22.5	22.4	22.5	22.5
		60	22.3	22.1	21.2	21.2	21.1	21.1	22.4	22.5	22.4	22.5	22.5
		70	22.3	22.1	21.2	21.2	21.1	21.1	22.4	22.5	22.4	22.5	22.5
		80	22.3	22.1	21.2	21.2	21.1	21.1	22.4	22.5	22.4	22.5	22.5
		90	22.3	22.1	21.2	21.2	21.1	21.1	22.4	22.5	22.4	22.5	22.5
		100	22.3	22.1	21.2	21.2	21.1	21.1	22.4	22.5	22.4	22.5	22.5
		110	22.3	22.1	21.2	21.2	21.1	21.1	22.4	22.5	22.4	22.5	22.5
		120	22.3	22.1	21.2	21.2	21.1	21.1	22.4	22.5	22.4	22.5	22.5
		125	22.3	22.1	21.2	21.2	21.1	21.1	22.4	22.5	22.4	22.5	22.5
		126	22.3	22.1	21.2	21.2	21.1	21.1	22.4	22.5	22.4	22.5	22.5
		127	22.3	22.1	21.2	21.2	21.1	21.1	22.4	22.5	22.4	22.5	22.5
		128	22.3	22.1	21.2	21.2	21.1	21.1	22.4	22.5	22.4	22.5	22.5
		129	22.3	22.1	21.2	21.2	21.1	21.1	22.4	22.5	22.4	22.5	22.5
	Tablet	130	18.4	18.4	16.2	16.1	16.4	16.2	16.4	16.5	16.4	16.3	16.3
		131	18.4	18.4	16.2	16.1	16.4	16.2	16.4	16.5	16.4	16.3	16.3
		132	18.4	18.4	16.2	16.1	16.4	16.2	16.4	16.5	16.4	16.3	16.3
		133	18.4	18.4	16.2	16.1	16.4	16.2	16.4	16.5	16.4	16.3	16.3
		134	18.4	18.4	16.2	16.1	16.4	16.2	16.4	16.5	16.4	16.3	16.3
135		18.4	18.4	16.2	16.1	16.4	16.2	16.4	16.5	16.4	16.3	16.3	
140		18.4	18.4	16.2	16.1	16.4	16.2	16.4	16.5	16.4	16.3	16.3	
150		18.4	18.4	16.2	16.1	16.4	16.2	16.4	16.5	16.4	16.3	16.3	
160		18.4	18.4	16.2	16.1	16.4	16.2	16.4	16.5	16.4	16.3	16.3	
170		18.4	18.4	16.2	16.1	16.4	16.2	16.4	16.5	16.4	16.3	16.3	
180		18.4	18.4	16.2	16.1	16.4	16.2	16.4	16.5	16.4	16.3	16.3	
190		18.4	18.4	16.2	16.1	16.4	16.2	16.4	16.5	16.4	16.3	16.3	
200	18.4	18.4	16.2	16.1	16.4	16.2	16.4	16.5	16.4	16.3	16.3		
210	18.4	18.4	16.2	16.1	16.4	16.2	16.4	16.5	16.4	16.3	16.3		
220	18.4	18.4	16.2	16.1	16.4	16.2	16.4	16.5	16.4	16.3	16.3		



FCC SAR TEST REPORT

Report No. : FA3N0307-02

		230	18.4	18.4	16.2	16.1	16.4	16.2	16.4	16.5	16.4	16.3
		240	18.4	18.4	16.2	16.1	16.4	16.2	16.4	16.5	16.4	16.3
		250	18.4	18.4	16.2	16.1	16.4	16.2	16.4	16.5	16.4	16.3
		260	18.4	18.4	16.2	16.1	16.4	16.2	16.4	16.5	16.4	16.3
		270	18.4	18.4	16.2	16.1	16.4	16.2	16.4	16.5	16.4	16.3
		280	18.4	18.4	16.2	16.1	16.4	16.2	16.4	16.5	16.4	16.3
		290	18.4	18.4	16.2	16.1	16.4	16.2	16.4	16.5	16.4	16.3
		300	18.4	18.4	16.2	16.1	16.4	16.2	16.4	16.5	16.4	16.3
		310	18.4	18.4	16.2	16.1	16.4	16.2	16.4	16.5	16.4	16.3
		320	18.4	18.4	16.2	16.1	16.4	16.2	16.4	16.5	16.4	16.3
		330	18.4	18.4	16.2	16.1	16.4	16.2	16.4	16.5	16.4	16.3
		340	18.4	18.4	16.2	16.1	16.4	16.2	16.4	16.5	16.4	16.3
		350	18.4	18.4	16.2	16.1	16.4	16.2	16.4	16.5	16.4	16.3
		360	18.4	18.4	16.2	16.1	16.4	16.2	16.4	16.5	16.4	16.3
	Tablet	195	18.4	18.4	16.2	16.1	16.4	16.2	16.4	16.5	16.4	16.3
		196	18.4	18.4	16.2	16.1	16.4	16.2	16.4	16.5	16.4	16.3
		197	18.4	18.4	16.2	16.1	16.4	16.2	16.4	16.5	16.4	16.3
		198	18.4	18.4	16.2	16.1	16.4	16.2	16.4	16.5	16.4	16.3
		199	18.4	18.4	16.2	16.1	16.4	16.2	16.4	16.5	16.4	16.3
	Stand mode (Screen orientation is set to 0° and base is horizontal)	200	18.4	18.4	16.2	16.1	16.4	16.2	16.4	16.5	16.4	16.3
		201	18.4	18.4	16.2	16.1	16.4	16.2	16.4	16.5	16.4	16.3
		202	18.4	18.4	16.2	16.1	16.4	16.2	16.4	16.5	16.4	16.3
		203	18.4	18.4	16.2	16.1	16.4	16.2	16.4	16.5	16.4	16.3
		204	18.4	18.4	16.2	16.1	16.4	16.2	16.4	16.5	16.4	16.3
		205	18.4	18.4	16.2	16.1	16.4	16.2	16.4	16.5	16.4	16.3
		210	18.4	18.4	16.2	16.1	16.4	16.2	16.4	16.5	16.4	16.3
		220	18.4	18.4	16.2	16.1	16.4	16.2	16.4	16.5	16.4	16.3
		230	18.4	18.4	16.2	16.1	16.4	16.2	16.4	16.5	16.4	16.3
		240	18.4	18.4	16.2	16.1	16.4	16.2	16.4	16.5	16.4	16.3
		250	18.4	18.4	16.2	16.1	16.4	16.2	16.4	16.5	16.4	16.3
		260	18.4	18.4	16.2	16.1	16.4	16.2	16.4	16.5	16.4	16.3
		270	18.4	18.4	16.2	16.1	16.4	16.2	16.4	16.5	16.4	16.3
		280	18.4	18.4	16.2	16.1	16.4	16.2	16.4	16.5	16.4	16.3
		290	18.4	18.4	16.2	16.1	16.4	16.2	16.4	16.5	16.4	16.3
		300	18.4	18.4	16.2	16.1	16.4	16.2	16.4	16.5	16.4	16.3
		310	18.4	18.4	16.2	16.1	16.4	16.2	16.4	16.5	16.4	16.3
		320	18.4	18.4	16.2	16.1	16.4	16.2	16.4	16.5	16.4	16.3
		330	18.4	18.4	16.2	16.1	16.4	16.2	16.4	16.5	16.4	16.3
	Tablet	335	18.4	18.4	16.2	16.1	16.4	16.2	16.4	16.5	16.4	16.3
		336	18.4	18.4	16.2	16.1	16.4	16.2	16.4	16.5	16.4	16.3
		337	18.4	18.4	16.2	16.1	16.4	16.2	16.4	16.5	16.4	16.3
		338	18.4	18.4	16.2	16.1	16.4	16.2	16.4	16.5	16.4	16.3
		339	18.4	18.4	16.2	16.1	16.4	16.2	16.4	16.5	16.4	16.3
	Tablet	340	18.4	18.4	16.2	16.1	16.4	16.2	16.4	16.5	16.4	16.3
		341	18.4	18.4	16.2	16.1	16.4	16.2	16.4	16.5	16.4	16.3
		342	18.4	18.4	16.2	16.1	16.4	16.2	16.4	16.5	16.4	16.3
		343	18.4	18.4	16.2	16.1	16.4	16.2	16.4	16.5	16.4	16.3
		344	18.4	18.4	16.2	16.1	16.4	16.2	16.4	16.5	16.4	16.3
	Tent mode (Screen orientation)	345	18.4	18.4	16.2	16.1	16.4	16.2	16.4	16.5	16.4	16.3
		350	18.4	18.4	16.2	16.1	16.4	16.2	16.4	16.5	16.4	16.3
		360	18.4	18.4	16.2	16.1	16.4	16.2	16.4	16.5	16.4	16.3
		195	18.4	18.4	16.2	16.1	16.4	16.2	16.4	16.5	16.4	16.3
		196	18.4	18.4	16.2	16.1	16.4	16.2	16.4	16.5	16.4	16.3
		197	18.4	18.4	16.2	16.1	16.4	16.2	16.4	16.5	16.4	16.3
		198	18.4	18.4	16.2	16.1	16.4	16.2	16.4	16.5	16.4	16.3
		199	18.4	18.4	16.2	16.1	16.4	16.2	16.4	16.5	16.4	16.3
		200	18.4	18.4	16.2	16.1	16.4	16.2	16.4	16.5	16.4	16.3
		201	18.4	18.4	16.2	16.1	16.4	16.2	16.4	16.5	16.4	16.3
		202	18.4	18.4	16.2	16.1	16.4	16.2	16.4	16.5	16.4	16.3
		203	18.4	18.4	16.2	16.1	16.4	16.2	16.4	16.5	16.4	16.3



FCC SAR TEST REPORT

Report No. : FA3N0307-02

SPORTON LAB.	is set to 180° and base is not horizontal)	204	18.4	18.4	16.2	16.1	16.4	16.2	16.4	16.5	16.4	16.3
		205	18.4	18.4	16.2	16.1	16.4	16.2	16.4	16.5	16.4	16.3
		210	18.4	18.4	16.2	16.1	16.4	16.2	16.4	16.5	16.4	16.3
		220	18.4	18.4	16.2	16.1	16.4	16.2	16.4	16.5	16.4	16.3
		230	18.4	18.4	16.2	16.1	16.4	16.2	16.4	16.5	16.4	16.3
		240	18.4	18.4	16.2	16.1	16.4	16.2	16.4	16.5	16.4	16.3
		250	18.4	18.4	16.2	16.1	16.4	16.2	16.4	16.5	16.4	16.3
		260	18.4	18.4	16.2	16.1	16.4	16.2	16.4	16.5	16.4	16.3
		270	18.4	18.4	16.2	16.1	16.4	16.2	16.4	16.5	16.4	16.3
		280	18.4	18.4	16.2	16.1	16.4	16.2	16.4	16.5	16.4	16.3
		290	18.4	18.4	16.2	16.1	16.4	16.2	16.4	16.5	16.4	16.3
		300	18.4	18.4	16.2	16.1	16.4	16.2	16.4	16.5	16.4	16.3
		310	18.4	18.4	16.2	16.1	16.4	16.2	16.4	16.5	16.4	16.3
		320	18.4	18.4	16.2	16.1	16.4	16.2	16.4	16.5	16.4	16.3
		330	18.4	18.4	16.2	16.1	16.4	16.2	16.4	16.5	16.4	16.3
		335	18.4	18.4	16.2	16.1	16.4	16.2	16.4	16.5	16.4	16.3
		336	18.4	18.4	16.2	16.1	16.4	16.2	16.4	16.5	16.4	16.3
		337	18.4	18.4	16.2	16.1	16.4	16.2	16.4	16.5	16.4	16.3
		338	18.4	18.4	16.2	16.1	16.4	16.2	16.4	16.5	16.4	16.3
		339	18.4	18.4	16.2	16.1	16.4	16.2	16.4	16.5	16.4	16.3
		340	18.4	18.4	16.2	16.1	16.4	16.2	16.4	16.5	16.4	16.3
	Tablet	341	18.4	18.4	16.2	16.1	16.4	16.2	16.4	16.5	16.4	16.3
		342	18.4	18.4	16.2	16.1	16.4	16.2	16.4	16.5	16.4	16.3
		343	18.4	18.4	16.2	16.1	16.4	16.2	16.4	16.5	16.4	16.3
		344	18.4	18.4	16.2	16.1	16.4	16.2	16.4	16.5	16.4	16.3
		345	18.4	18.4	16.2	16.1	16.4	16.2	16.4	16.5	16.4	16.3
		350	18.4	18.4	16.2	16.1	16.4	16.2	16.4	16.5	16.4	16.3
		360	18.4	18.4	16.2	16.1	16.4	16.2	16.4	16.5	16.4	16.3
	Lid Close	0	standby	standby	standby	standby	standby	standby	standby	standby	standby	standby
		10	standby	standby	standby	standby	standby	standby	standby	standby	standby	standby
		20	standby	standby	standby	standby	standby	standby	standby	standby	standby	standby
		25	standby	standby	standby	standby	standby	standby	standby	standby	standby	standby
		26	standby	standby	standby	standby	standby	standby	standby	standby	standby	standby
		27	standby	standby	standby	standby	standby	standby	standby	standby	standby	standby
		28	standby	standby	standby	standby	standby	standby	standby	standby	standby	standby
		29	standby	standby	standby	standby	standby	standby	standby	standby	standby	standby
	Book (screen orientation is 90° or 270°)	30	22.3	22.1	21.2	21.2	21.1	21.1	22.4	22.5	22.4	22.5
		31	22.3	22.1	21.2	21.2	21.1	21.1	22.4	22.5	22.4	22.5
		32	22.3	22.1	21.2	21.2	21.1	21.1	22.4	22.5	22.4	22.5
		33	22.3	22.1	21.2	21.2	21.1	21.1	22.4	22.5	22.4	22.5
		34	22.3	22.1	21.2	21.2	21.1	21.1	22.4	22.5	22.4	22.5
		35	22.3	22.1	21.2	21.2	21.1	21.1	22.4	22.5	22.4	22.5
		40	22.3	22.1	21.2	21.2	21.1	21.1	22.4	22.5	22.4	22.5
		50	22.3	22.1	21.2	21.2	21.1	21.1	22.4	22.5	22.4	22.5
		60	22.3	22.1	21.2	21.2	21.1	21.1	22.4	22.5	22.4	22.5
		70	22.3	22.1	21.2	21.2	21.1	21.1	22.4	22.5	22.4	22.5
		80	22.3	22.1	21.2	21.2	21.1	21.1	22.4	22.5	22.4	22.5
		90	22.3	22.1	21.2	21.2	21.1	21.1	22.4	22.5	22.4	22.5
		100	22.3	22.1	21.2	21.2	21.1	21.1	22.4	22.5	22.4	22.5
		110	22.3	22.1	21.2	21.2	21.1	21.1	22.4	22.5	22.4	22.5
		120	22.3	22.1	21.2	21.2	21.1	21.1	22.4	22.5	22.4	22.5
		120	22.3	22.1	21.2	21.2	21.1	21.1	22.4	22.5	22.4	22.5
		130	18.4	18.4	16.2	16.1	16.4	16.2	16.4	16.5	16.4	16.3
		140	18.4	18.4	16.2	16.1	16.4	16.2	16.4	16.5	16.4	16.3
		150	18.4	18.4	16.2	16.1	16.4	16.2	16.4	16.5	16.4	16.3
		160	18.4	18.4	16.2	16.1	16.4	16.2	16.4	16.5	16.4	16.3
		170	18.4	18.4	16.2	16.1	16.4	16.2	16.4	16.5	16.4	16.3
		180	18.4	18.4	16.2	16.1	16.4	16.2	16.4	16.5	16.4	16.3
		190	18.4	18.4	16.2	16.1	16.4	16.2	16.4	16.5	16.4	16.3
		195	18.4	18.4	16.2	16.1	16.4	16.2	16.4	16.5	16.4	16.3



Overall Performance	Mobile	196	18.4	18.4	16.2	16.1	16.4	16.2	16.4	16.5	16.4	16.3
		197	18.4	18.4	16.2	16.1	16.4	16.2	16.4	16.5	16.4	16.3
		198	18.4	18.4	16.2	16.1	16.4	16.2	16.4	16.5	16.4	16.3
		199	18.4	18.4	16.2	16.1	16.4	16.2	16.4	16.5	16.4	16.3
		200	18.4	18.4	16.2	16.1	16.4	16.2	16.4	16.5	16.4	16.3
	Tablet	201	18.4	18.4	16.2	16.1	16.4	16.2	16.4	16.5	16.4	16.3
		202	18.4	18.4	16.2	16.1	16.4	16.2	16.4	16.5	16.4	16.3
		203	18.4	18.4	16.2	16.1	16.4	16.2	16.4	16.5	16.4	16.3
		204	18.4	18.4	16.2	16.1	16.4	16.2	16.4	16.5	16.4	16.3
		205	18.4	18.4	16.2	16.1	16.4	16.2	16.4	16.5	16.4	16.3
		210	18.4	18.4	16.2	16.1	16.4	16.2	16.4	16.5	16.4	16.3
		220	18.4	18.4	16.2	16.1	16.4	16.2	16.4	16.5	16.4	16.3
		230	18.4	18.4	16.2	16.1	16.4	16.2	16.4	16.5	16.4	16.3
		240	18.4	18.4	16.2	16.1	16.4	16.2	16.4	16.5	16.4	16.3
		250	18.4	18.4	16.2	16.1	16.4	16.2	16.4	16.5	16.4	16.3
		260	18.4	18.4	16.2	16.1	16.4	16.2	16.4	16.5	16.4	16.3
		270	18.4	18.4	16.2	16.1	16.4	16.2	16.4	16.5	16.4	16.3
		280	18.4	18.4	16.2	16.1	16.4	16.2	16.4	16.5	16.4	16.3
		290	18.4	18.4	16.2	16.1	16.4	16.2	16.4	16.5	16.4	16.3
		300	18.4	18.4	16.2	16.1	16.4	16.2	16.4	16.5	16.4	16.3
		310	18.4	18.4	16.2	16.1	16.4	16.2	16.4	16.5	16.4	16.3
		320	18.4	18.4	16.2	16.1	16.4	16.2	16.4	16.5	16.4	16.3
		330	18.4	18.4	16.2	16.1	16.4	16.2	16.4	16.5	16.4	16.3
		340	18.4	18.4	16.2	16.1	16.4	16.2	16.4	16.5	16.4	16.3
		350	18.4	18.4	16.2	16.1	16.4	16.2	16.4	16.5	16.4	16.3
		360	18.4	18.4	16.2	16.1	16.4	16.2	16.4	16.5	16.4	16.3

when the screen angle is from 360 degree to 0 degree												
Screen angle (degree) v.s. power	Wireless			WLAN Ant Main+Aux								
	Band		2.4GHz WLAN Aux	2.4GHz WLAN Main	5.3GHz WLAN Aux	5.3GHz WLAN Main	5.5GHz WLAN Aux	5.5GHz WLAN Main	5.8GHz WLAN Aux	5.8GHz WLAN Main	5.9GHz WLAN Aux	5.9GHz WLAN Main
	Tablet Mode	360	18.40	18.40	16.20	16.10	16.40	16.20	16.40	16.50	16.40	16.30
		350	18.40	18.40	16.20	16.10	16.40	16.20	16.40	16.50	16.40	16.30
		340	18.40	18.40	16.20	16.10	16.40	16.20	16.40	16.50	16.40	16.30
		330	18.40	18.40	16.20	16.10	16.40	16.20	16.40	16.50	16.40	16.30
		320	18.40	18.40	16.20	16.10	16.40	16.20	16.40	16.50	16.40	16.30
		310	18.40	18.40	16.20	16.10	16.40	16.20	16.40	16.50	16.40	16.30
		300	18.40	18.40	16.20	16.10	16.40	16.20	16.40	16.50	16.40	16.30
		290	18.40	18.40	16.20	16.10	16.40	16.20	16.40	16.50	16.40	16.30
		280	18.40	18.40	16.20	16.10	16.40	16.20	16.40	16.50	16.40	16.30
		270	18.40	18.40	16.20	16.10	16.40	16.20	16.40	16.50	16.40	16.30
		260	18.40	18.40	16.20	16.10	16.40	16.20	16.40	16.50	16.40	16.30
		250	18.40	18.40	16.20	16.10	16.40	16.20	16.40	16.50	16.40	16.30
		240	18.40	18.40	16.20	16.10	16.40	16.20	16.40	16.50	16.40	16.30
		230	18.40	18.40	16.20	16.10	16.40	16.20	16.40	16.50	16.40	16.30
		220	18.40	18.40	16.20	16.10	16.40	16.20	16.40	16.50	16.40	16.30
		210	18.40	18.40	16.20	16.10	16.40	16.20	16.40	16.50	16.40	16.30
		200	18.40	18.40	16.20	16.10	16.40	16.20	16.40	16.50	16.40	16.30
		190	18.40	18.40	16.20	16.10	16.40	16.20	16.40	16.50	16.40	16.30
		180	18.40	18.40	16.20	16.10	16.40	16.20	16.40	16.50	16.40	16.30
		170	18.40	18.40	16.20	16.10	16.40	16.20	16.40	16.50	16.40	16.30
		160	18.40	18.40	16.20	16.10	16.40	16.20	16.40	16.50	16.40	16.30
		150	18.40	18.40	16.20	16.10	16.40	16.20	16.40	16.50	16.40	16.30
		140	18.40	18.40	16.20	16.10	16.40	16.20	16.40	16.50	16.40	16.30
		135	18.40	18.40	16.20	16.10	16.40	16.20	16.40	16.50	16.40	16.30
		134	18.40	18.40	16.20	16.10	16.40	16.20	16.40	16.50	16.40	16.30
133		18.40	18.40	16.20	16.10	16.40	16.20	16.40	16.50	16.40	16.30	
132		18.40	18.40	16.20	16.10	16.40	16.20	16.40	16.50	16.40	16.30	



FCC SAR TEST REPORT

Report No. : FA3N0307-02

		131	18.40	18.40	16.20	16.10	16.40	16.20	16.40	16.50	16.40	16.30
		130	18.40	18.40	16.20	16.10	16.40	16.20	16.40	16.50	16.40	16.30
	Notebook	129	22.30	22.10	21.20	21.20	21.10	21.10	22.40	22.50	22.40	22.50
		128	22.30	22.10	21.20	21.20	21.10	21.10	22.40	22.50	22.40	22.50
		127	22.30	22.10	21.20	21.20	21.10	21.10	22.40	22.50	22.40	22.50
		126	22.30	22.10	21.20	21.20	21.10	21.10	22.40	22.50	22.40	22.50
		125	22.30	22.10	21.20	21.20	21.10	21.10	22.40	22.50	22.40	22.50
		120	22.30	22.10	21.20	21.20	21.10	21.10	22.40	22.50	22.40	22.50
		110	22.30	22.10	21.20	21.20	21.10	21.10	22.40	22.50	22.40	22.50
		100	22.30	22.10	21.20	21.20	21.10	21.10	22.40	22.50	22.40	22.50
		90	22.30	22.10	21.20	21.20	21.10	21.10	22.40	22.50	22.40	22.50
		80	22.30	22.10	21.20	21.20	21.10	21.10	22.40	22.50	22.40	22.50
		70	22.30	22.10	21.20	21.20	21.10	21.10	22.40	22.50	22.40	22.50
		60	22.30	22.10	21.20	21.20	21.10	21.10	22.40	22.50	22.40	22.50
		50	22.30	22.10	21.20	21.20	21.10	21.10	22.40	22.50	22.40	22.50
		40	22.30	22.10	21.20	21.20	21.10	21.10	22.40	22.50	22.40	22.50
		35	22.30	22.10	21.20	21.20	21.10	21.10	22.40	22.50	22.40	22.50
		34	22.30	22.10	21.20	21.20	21.10	21.10	22.40	22.50	22.40	22.50
		33	22.30	22.10	21.20	21.20	21.10	21.10	22.40	22.50	22.40	22.50
		32	22.30	22.10	21.20	21.20	21.10	21.10	22.40	22.50	22.40	22.50
		31	22.30	22.10	21.20	21.20	21.10	21.10	22.40	22.50	22.40	22.50
		30	22.30	22.10	21.20	21.20	21.10	21.10	22.40	22.50	22.40	22.50
	Lid Close	29	standby	standby	standby	standby	standby	standby	standby	standby	standby	standby
		28	standby	standby	standby	standby	standby	standby	standby	standby	standby	standby
		27	standby	standby	standby	standby	standby	standby	standby	standby	standby	standby
		26	standby	standby	standby	standby	standby	standby	standby	standby	standby	standby
		25	standby	standby	standby	standby	standby	standby	standby	standby	standby	standby
		20	standby	standby	standby	standby	standby	standby	standby	standby	standby	standby
		10	standby	standby	standby	standby	standby	standby	standby	standby	standby	standby
		0	standby	standby	standby	standby	standby	standby	standby	standby	standby	standby
	Tablet	360	18.40	18.40	16.20	16.10	16.40	16.20	16.40	16.50	16.40	16.30
		350	18.40	18.40	16.20	16.10	16.40	16.20	16.40	16.50	16.40	16.30
		345	18.40	18.40	16.20	16.10	16.40	16.20	16.40	16.50	16.40	16.30
		344	18.40	18.40	16.20	16.10	16.40	16.20	16.40	16.50	16.40	16.30
		343	18.40	18.40	16.20	16.10	16.40	16.20	16.40	16.50	16.40	16.30
		342	18.40	18.40	16.20	16.10	16.40	16.20	16.40	16.50	16.40	16.30
		341	18.40	18.40	16.20	16.10	16.40	16.20	16.40	16.50	16.40	16.30
	Stand mode (Screen orientation is set to 0° and base is horizontal)	340	18.40	18.40	16.20	16.10	16.40	16.20	16.40	16.50	16.40	16.30
		339	18.40	18.40	16.20	16.10	16.40	16.20	16.40	16.50	16.40	16.30
		338	18.40	18.40	16.20	16.10	16.40	16.20	16.40	16.50	16.40	16.30
		337	18.40	18.40	16.20	16.10	16.40	16.20	16.40	16.50	16.40	16.30
		336	18.40	18.40	16.20	16.10	16.40	16.20	16.40	16.50	16.40	16.30
		335	18.40	18.40	16.20	16.10	16.40	16.20	16.40	16.50	16.40	16.30
		330	18.40	18.40	16.20	16.10	16.40	16.20	16.40	16.50	16.40	16.30
		320	18.40	18.40	16.20	16.10	16.40	16.20	16.40	16.50	16.40	16.30
		310	18.40	18.40	16.20	16.10	16.40	16.20	16.40	16.50	16.40	16.30
		300	18.40	18.40	16.20	16.10	16.40	16.20	16.40	16.50	16.40	16.30
		290	18.40	18.40	16.20	16.10	16.40	16.20	16.40	16.50	16.40	16.30
		280	18.40	18.40	16.20	16.10	16.40	16.20	16.40	16.50	16.40	16.30
		270	18.40	18.40	16.20	16.10	16.40	16.20	16.40	16.50	16.40	16.30
		260	18.40	18.40	16.20	16.10	16.40	16.20	16.40	16.50	16.40	16.30
		250	18.40	18.40	16.20	16.10	16.40	16.20	16.40	16.50	16.40	16.30
		240	18.40	18.40	16.20	16.10	16.40	16.20	16.40	16.50	16.40	16.30
		230	18.40	18.40	16.20	16.10	16.40	16.20	16.40	16.50	16.40	16.30
		220	18.40	18.40	16.20	16.10	16.40	16.20	16.40	16.50	16.40	16.30
		210	18.40	18.40	16.20	16.10	16.40	16.20	16.40	16.50	16.40	16.30



FCC SAR TEST REPORT

Report No. : FA3N0307-02

Tablet	205	18.40	18.40	16.20	16.10	16.40	16.20	16.40	16.50	16.40	16.30
	204	18.40	18.40	16.20	16.10	16.40	16.20	16.40	16.50	16.40	16.30
	203	18.40	18.40	16.20	16.10	16.40	16.20	16.40	16.50	16.40	16.30
	202	18.40	18.40	16.20	16.10	16.40	16.20	16.40	16.50	16.40	16.30
	201	18.40	18.40	16.20	16.10	16.40	16.20	16.40	16.50	16.40	16.30
Tablet	200	18.40	18.40	16.20	16.10	16.40	16.20	16.40	16.50	16.40	16.30
	199	18.40	18.40	16.20	16.10	16.40	16.20	16.40	16.50	16.40	16.30
	198	18.40	18.40	16.20	16.10	16.40	16.20	16.40	16.50	16.40	16.30
	197	18.40	18.40	16.20	16.10	16.40	16.20	16.40	16.50	16.40	16.30
	196	18.40	18.40	16.20	16.10	16.40	16.20	16.40	16.50	16.40	16.30
Tablet	195	18.40	18.40	16.20	16.10	16.40	16.20	16.40	16.50	16.40	16.30
	360	18.40	18.40	16.20	16.10	16.40	16.20	16.40	16.50	16.40	16.30
	350	18.40	18.40	16.20	16.10	16.40	16.20	16.40	16.50	16.40	16.30
	345	18.40	18.40	16.20	16.10	16.40	16.20	16.40	16.50	16.40	16.30
	344	18.40	18.40	16.20	16.10	16.40	16.20	16.40	16.50	16.40	16.30
Tablet	343	18.40	18.40	16.20	16.10	16.40	16.20	16.40	16.50	16.40	16.30
	342	18.40	18.40	16.20	16.10	16.40	16.20	16.40	16.50	16.40	16.30
	341	18.40	18.40	16.20	16.10	16.40	16.20	16.40	16.50	16.40	16.30
Tent mode (Screen orientation is set to 180° and base is not horizontal)	340	18.40	18.40	16.20	16.10	16.40	16.20	16.40	16.50	16.40	16.30
	339	18.40	18.40	16.20	16.10	16.40	16.20	16.40	16.50	16.40	16.30
	338	18.40	18.40	16.20	16.10	16.40	16.20	16.40	16.50	16.40	16.30
	337	18.40	18.40	16.20	16.10	16.40	16.20	16.40	16.50	16.40	16.30
	336	18.40	18.40	16.20	16.10	16.40	16.20	16.40	16.50	16.40	16.30
	335	18.40	18.40	16.20	16.10	16.40	16.20	16.40	16.50	16.40	16.30
	330	18.40	18.40	16.20	16.10	16.40	16.20	16.40	16.50	16.40	16.30
	320	18.40	18.40	16.20	16.10	16.40	16.20	16.40	16.50	16.40	16.30
	310	18.40	18.40	16.20	16.10	16.40	16.20	16.40	16.50	16.40	16.30
	300	18.40	18.40	16.20	16.10	16.40	16.20	16.40	16.50	16.40	16.30
	290	18.40	18.40	16.20	16.10	16.40	16.20	16.40	16.50	16.40	16.30
	280	18.40	18.40	16.20	16.10	16.40	16.20	16.40	16.50	16.40	16.30
	270	18.40	18.40	16.20	16.10	16.40	16.20	16.40	16.50	16.40	16.30
	260	18.40	18.40	16.20	16.10	16.40	16.20	16.40	16.50	16.40	16.30
	250	18.40	18.40	16.20	16.10	16.40	16.20	16.40	16.50	16.40	16.30
	240	18.40	18.40	16.20	16.10	16.40	16.20	16.40	16.50	16.40	16.30
	230	18.40	18.40	16.20	16.10	16.40	16.20	16.40	16.50	16.40	16.30
	220	18.40	18.40	16.20	16.10	16.40	16.20	16.40	16.50	16.40	16.30
	210	18.40	18.40	16.20	16.10	16.40	16.20	16.40	16.50	16.40	16.30
	205	18.40	18.40	16.20	16.10	16.40	16.20	16.40	16.50	16.40	16.30
Tablet	204	18.40	18.40	16.20	16.10	16.40	16.20	16.40	16.50	16.40	16.30
	203	18.40	18.40	16.20	16.10	16.40	16.20	16.40	16.50	16.40	16.30
	202	18.40	18.40	16.20	16.10	16.40	16.20	16.40	16.50	16.40	16.30
	201	18.40	18.40	16.20	16.10	16.40	16.20	16.40	16.50	16.40	16.30
	200	18.40	18.40	16.20	16.10	16.40	16.20	16.40	16.50	16.40	16.30
Tablet	199	18.40	18.40	16.20	16.10	16.40	16.20	16.40	16.50	16.40	16.30
	198	18.40	18.40	16.20	16.10	16.40	16.20	16.40	16.50	16.40	16.30
	197	18.40	18.40	16.20	16.10	16.40	16.20	16.40	16.50	16.40	16.30
	196	18.40	18.40	16.20	16.10	16.40	16.20	16.40	16.50	16.40	16.30
	195	18.40	18.40	16.20	16.10	16.40	16.20	16.40	16.50	16.40	16.30
Tablet	360	18.40	18.40	16.20	16.10	16.40	16.20	16.40	16.50	16.40	16.30
	350	18.40	18.40	16.20	16.10	16.40	16.20	16.40	16.50	16.40	16.30
	340	18.40	18.40	16.20	16.10	16.40	16.20	16.40	16.50	16.40	16.30
	330	18.40	18.40	16.20	16.10	16.40	16.20	16.40	16.50	16.40	16.30
	320	18.40	18.40	16.20	16.10	16.40	16.20	16.40	16.50	16.40	16.30
Tablet	310	18.40	18.40	16.20	16.10	16.40	16.20	16.40	16.50	16.40	16.30
	300	18.40	18.40	16.20	16.10	16.40	16.20	16.40	16.50	16.40	16.30
	290	18.40	18.40	16.20	16.10	16.40	16.20	16.40	16.50	16.40	16.30
	280	18.40	18.40	16.20	16.10	16.40	16.20	16.40	16.50	16.40	16.30
	270	18.40	18.40	16.20	16.10	16.40	16.20	16.40	16.50	16.40	16.30



FCC SAR TEST REPORT

Report No. : FA3N0307-02

		280	18.40	18.40	16.20	16.10	16.40	16.20	16.40	16.50	16.40	16.30
		270	18.40	18.40	16.20	16.10	16.40	16.20	16.40	16.50	16.40	16.30
		260	18.40	18.40	16.20	16.10	16.40	16.20	16.40	16.50	16.40	16.30
		250	18.40	18.40	16.20	16.10	16.40	16.20	16.40	16.50	16.40	16.30
		240	18.40	18.40	16.20	16.10	16.40	16.20	16.40	16.50	16.40	16.30
		230	18.40	18.40	16.20	16.10	16.40	16.20	16.40	16.50	16.40	16.30
		220	18.40	18.40	16.20	16.10	16.40	16.20	16.40	16.50	16.40	16.30
		210	18.40	18.40	16.20	16.10	16.40	16.20	16.40	16.50	16.40	16.30
		205	18.40	18.40	16.20	16.10	16.40	16.20	16.40	16.50	16.40	16.30
		204	18.40	18.40	16.20	16.10	16.40	16.20	16.40	16.50	16.40	16.30
		203	18.40	18.40	16.20	16.10	16.40	16.20	16.40	16.50	16.40	16.30
		202	18.40	18.40	16.20	16.10	16.40	16.20	16.40	16.50	16.40	16.30
		201	18.40	18.40	16.20	16.10	16.40	16.20	16.40	16.50	16.40	16.30
	Book (screen orientation is 90° or 270°)	200	18.40	18.40	16.20	16.10	16.40	16.20	16.40	16.50	16.40	16.30
		199	18.40	18.40	16.20	16.10	16.40	16.20	16.40	16.50	16.40	16.30
		198	18.40	18.40	16.20	16.10	16.40	16.20	16.40	16.50	16.40	16.30
		197	18.40	18.40	16.20	16.10	16.40	16.20	16.40	16.50	16.40	16.30
		196	18.40	18.40	16.20	16.10	16.40	16.20	16.40	16.50	16.40	16.30
		195	18.40	18.40	16.20	16.10	16.40	16.20	16.40	16.50	16.40	16.30
		190	18.40	18.40	16.20	16.10	16.40	16.20	16.40	16.50	16.40	16.30
		180	18.40	18.40	16.20	16.10	16.40	16.20	16.40	16.50	16.40	16.30
		170	18.40	18.40	16.20	16.10	16.40	16.20	16.40	16.50	16.40	16.30
		160	18.40	18.40	16.20	16.10	16.40	16.20	16.40	16.50	16.40	16.30
		150	18.40	18.40	16.20	16.10	16.40	16.20	16.40	16.50	16.40	16.30
		140	18.40	18.40	16.20	16.10	16.40	16.20	16.40	16.50	16.40	16.30
		130	18.40	18.40	16.20	16.10	16.40	16.20	16.40	16.50	16.40	16.30
		120	22.30	22.10	21.20	21.20	21.10	21.10	22.40	22.50	22.40	22.50
		110	22.30	22.10	21.20	21.20	21.10	21.10	22.40	22.50	22.40	22.50
		100	22.30	22.10	21.20	21.20	21.10	21.10	22.40	22.50	22.40	22.50
		90	22.30	22.10	21.20	21.20	21.10	21.10	22.40	22.50	22.40	22.50
		80	22.30	22.10	21.20	21.20	21.10	21.10	22.40	22.50	22.40	22.50
		70	22.30	22.10	21.20	21.20	21.10	21.10	22.40	22.50	22.40	22.50
		60	22.30	22.10	21.20	21.20	21.10	21.10	22.40	22.50	22.40	22.50
		50	22.30	22.10	21.20	21.20	21.10	21.10	22.40	22.50	22.40	22.50
		40	22.30	22.10	21.20	21.20	21.10	21.10	22.40	22.50	22.40	22.50
		35	22.30	22.10	21.20	21.20	21.10	21.10	22.40	22.50	22.40	22.50
		34	22.30	22.10	21.20	21.20	21.10	21.10	22.40	22.50	22.40	22.50
		33	22.30	22.10	21.20	21.20	21.10	21.10	22.40	22.50	22.40	22.50
		32	22.30	22.10	21.20	21.20	21.10	21.10	22.40	22.50	22.40	22.50
		31	22.30	22.10	21.20	21.20	21.10	21.10	22.40	22.50	22.40	22.50
		30	22.30	22.10	21.20	21.20	21.10	21.10	22.40	22.50	22.40	22.50
	Lid Close	29	standby	standby	standby	standby	standby	standby	standby	standby	standby	standby
		25	standby	standby	standby	standby	standby	standby	standby	standby	standby	standby
		27	standby	standby	standby	standby	standby	standby	standby	standby	standby	standby
		26	standby	standby	standby	standby	standby	standby	standby	standby	standby	standby
		25	standby	standby	standby	standby	standby	standby	standby	standby	standby	standby
		20	standby	standby	standby	standby	standby	standby	standby	standby	standby	standby
		10	standby	standby	standby	standby	standby	standby	standby	standby	standby	standby
		0	standby	standby	standby	standby	standby	standby	standby	standby	standby	standby

4. RF Exposure Limits

4.1 Uncontrolled Environment

Uncontrolled Environments are defined as locations where there is the exposure of individuals who have no knowledge or control of their exposure. The general population/uncontrolled exposure limits are applicable to situations in which the general public may be exposed or in which persons who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure. Members of the general public would come under this category when exposure is not employment-related; for example, in the case of a wireless transmitter that exposes persons in its vicinity.

4.2 Controlled Environment

Controlled Environments are defined as locations where there is exposure that may be incurred by persons who are aware of the potential for exposure, (i.e. as a result of employment or occupation). In general, occupational/controlled exposure limits are applicable to situations in which persons are exposed as a consequence of their employment, who have been made fully aware of the potential for exposure and can exercise control over their exposure. The exposure category is also applicable when the exposure is of a transient nature due to incidental passage through a location where the exposure levels may be higher than the general population/uncontrolled limits, but the exposed person is fully aware of the potential for exposure and can exercise control over his or her exposure by leaving the area or by some other appropriate means.

Limits for Occupational/Controlled Exposure (W/kg)

Whole-Body	Partial-Body	Hands, Wrists, Feet and Ankles
0.4	8.0	20.0

Limits for General Population/Uncontrolled Exposure (W/kg)

Whole-Body	Partial-Body	Hands, Wrists, Feet and Ankles
0.08	1.6	4.0

1. Whole-Body SAR is averaged over the entire body, partial-body SAR is averaged over any 1gram of tissue defined as a tissue volume in the shape of a cube. SAR for hands, wrists, feet and ankles is averaged over any 10 grams of tissue defined as a tissue volume in the shape of a cube.

4.3 RF Exposure limit for above 6GHz

According to ANSI/IEEE C95.1-1992, the criteria listed in Table 1 shall be used to evaluate the environmental impact of human exposure to radio frequency (RF) radiation as specified in §1.1310.

Peak Spatially Averaged Power Density was evaluated over a circular area of 4cm² per interim FCC Guidance for near-field power density evaluations per October 2018 TCB Workshop notes

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposures				
0.3-3.0	614	1.63	*(100)	6
3.0-30	1842/f	4.89/f	*(900/f ²)	6
30-300	61.4	0.163	1.0	6
300-1500			f/300	6
1500-100,000			5	6
(B) Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f ²)	30
30-300	27.5	0.073	0.2	30
300-1500			f/1500	30
1500-100,000			1.0	30

5. Specific Absorption Rate (SAR)

5.1 Introduction

SAR is related to the rate at which energy is absorbed per unit mass in an object exposed to a radio field. The SAR distribution in a biological body is complicated and is usually carried out by experimental techniques or numerical modeling. The standard recommends limits for two tiers of groups, occupational/controlled and general population/uncontrolled, based on a person's awareness and ability to exercise control over his or her exposure. In general, occupational/controlled exposure limits are higher than the limits for general population/uncontrolled.

5.2 SAR Definition

The SAR definition is the time derivative (rate) of the incremental energy (dW) absorbed by (dissipated in) an incremental mass (dm) contained in a volume element (dv) of a given density (ρ). The equation description is as below:

$$SAR = \frac{d}{dt} \left(\frac{dW}{dm} \right) = \frac{d}{dt} \left(\frac{dW}{\rho dv} \right)$$

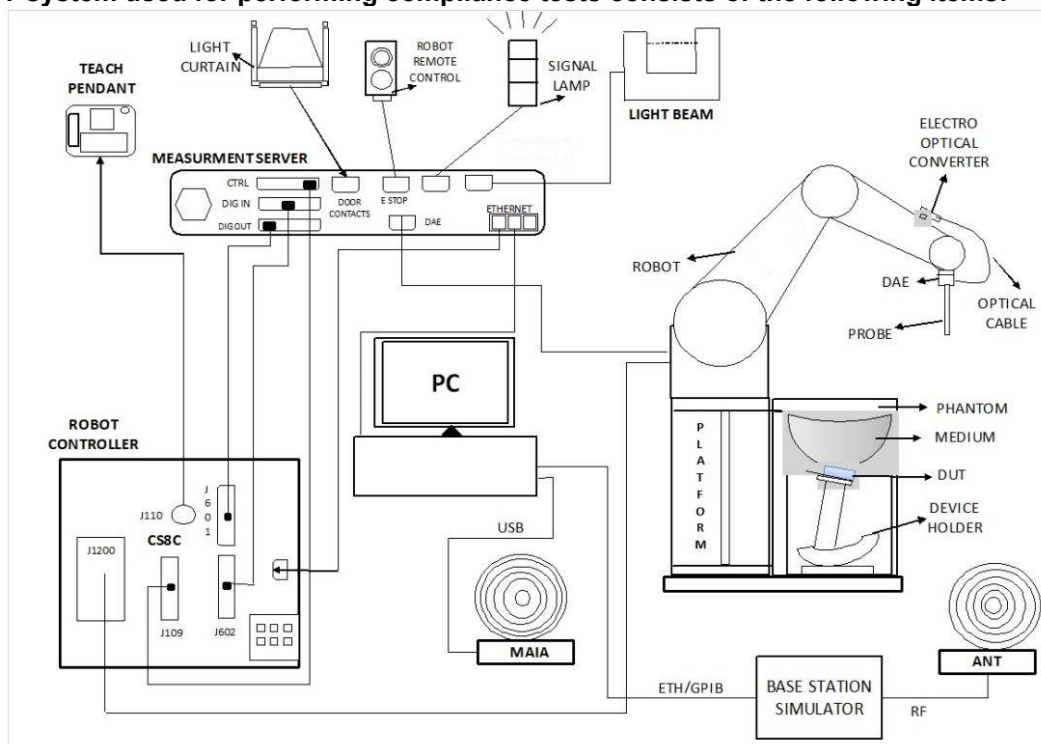
SAR is expressed in units of Watts per kilogram (W/kg)

$$SAR = \frac{\sigma |E|^2}{\rho}$$

Where: σ is the conductivity of the tissue, ρ is the mass density of the tissue and E is the RMS electrical field strength.

6. System Description and Setup

The DASY system used for performing compliance tests consists of the following items:



- The DASY system in SAR Configuration is shown above
- A standard high precision 6-axis robot with controller, teach pendant and software. An arm extension for accommodating the data acquisition electronics (DAE).
- An isotropic Field probe optimized and calibrated for the targeted measurement.
- A data acquisition electronics (DAE) which performs the signal amplification, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. The unit is battery powered with standard or rechargeable batteries. The signal is optically transmitted to the EOC.
- The Electro-optical converter (EOC) performs the conversion from optical to electrical signals for the digital communication to the DAE. To use optical surface detection, a special version of the EOC is required. The EOC signal is transmitted to the measurement server.
- The function of the measurement server is to perform the time critical tasks such as signal filtering, control of the robot operation and fast movement interrupts.
- The Light Beam used is for probe alignment. This improves the (absolute) accuracy of the probe positioning.
- A computer running windows software and the DASY software.
- Remote control and teach pendant as well as additional circuitry for robot safety such as warning lamps, etc.
- The phantom, the device holder and other accessories according to the targeted measurement.

6.1 Test Site Location

The SAR measurement facilities used to collect data are within both Sporton Lab list below test site location are accredited to ISO 17025 by Taiwan Accreditation Foundation (TAF code: 1190 and 3786) and the FCC designation No. TW1190 and TW3786 under the FCC 2.948(e) by Mutual Recognition Agreement (MRA) in FCC test.

Test Site	EMC & Wireless Communications Laboratory		Wensan Laboratory		
	TW1190		TW3786		
Test Site Location	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan		No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan		
Test Site No.	SAR01-HY	SAR03-HY	SAR08-HY	SAR09-HY	SAR15-HY
	SAR04-HY	SAR05-HY	SAR11-HY	SAR12-HY	SAR16-HY
	SAR06-HY	SAR10-HY	SAR13-HY	SAR14-HY	SAR17-HY

6.2 E-Field Probe

The SAR measurement is conducted with the dosimetric probe (manufactured by SPEAG). The probe is specially designed and calibrated for use in liquid with high permittivity. The dosimetric probe has special calibration in liquid at different frequency. This probe has a built in optical surface detection system to prevent from collision with phantom.

<ES3DV3 Probe>

Construction	Symmetric design with triangular core Interleaved sensors Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)	
Frequency	4 MHz – 4 GHz; Linearity: ± 0.2 dB (30 MHz – 4 GHz)	
Directivity	± 0.2 dB in TSL (rotation around probe axis) ± 0.3 dB in TSL (rotation normal to probe axis)	
Dynamic Range	5 μ W/g – >100 mW/g; Linearity: ± 0.2 dB	
Dimensions	Overall length: 337 mm (tip: 20 mm) Tip diameter: 3.9 mm (body: 12 mm) Distance from probe tip to dipole centers: 3.0 mm	

<EX3DV4 Probe>

Construction	Symmetric design with triangular core Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)	
Frequency	4 MHz – >6 GHz Linearity: ± 0.2 dB (30 MHz – 6 GHz)	
Directivity	± 0.3 dB in TSL (rotation around probe axis) ± 0.5 dB in TSL (rotation normal to probe axis)	
Dynamic Range	10 μ W/g – >100 mW/g Linearity: ± 0.2 dB (noise: typically <1 μ W/g)	
Dimensions	Overall length: 337 mm (tip: 20 mm) Tip diameter: 2.5 mm (body: 12 mm) Typical distance from probe tip to dipole centers: 1 mm	

6.3 Data Acquisition Electronics (DAE)

The data acquisition electronics (DAE) consists of a highly sensitive electrometer-grade preamplifier with auto-zeroing, a channel and gain-switching multiplexer, a fast 16 bit AD-converter and a command decoder and control logic unit. Transmission to the measurement server is accomplished through an optical downlink for data and status information as well as an optical uplink for commands and the clock.

The input impedance of the DAE is 200 MOhm; the inputs are symmetrical and floating. Common mode rejection is above 80 dB.



Fig 5.1 Photo of DAE

6.4 Phantom

<SAM Twin Phantom>

Shell Thickness	2 ± 0.2 mm; Center ear point: 6 ± 0.2 mm	
Filling Volume	Approx. 25 liters	
Dimensions	Length: 1000 mm; Width: 500 mm; Height: adjustable feet	
Measurement Areas	Left Hand, Right Hand, Flat Phantom	

The bottom plate contains three pair of bolts for locking the device holder. The device holder positions are adjusted to the standard measurement positions in the three sections. A white cover is provided to tap the phantom during off-periods to prevent water evaporation and changes in the liquid parameters. On the phantom top, three reference markers are provided to identify the phantom position with respect to the robot.

<ELI Phantom>

Shell Thickness	2 ± 0.2 mm (sagging: <1%)	
Filling Volume	Approx. 30 liters	
Dimensions	Major ellipse axis: 600 mm Minor axis: 400 mm	

The ELI phantom is intended for compliance testing of handheld and body-mounted wireless devices in the frequency range of 30 MHz to 6 GHz. ELI4 is fully compatible with standard and all known tissue simulating liquids.

6.5 Device Holder

<Mounting Device for Hand-Held Transmitter>

In combination with the Twin SAM V5.0/V5.0c or ELI phantoms, the Mounting Device for Hand-Held Transmitters enables rotation of the mounted transmitter device to specified spherical coordinates. At the heads, the rotation axis is at the ear opening. Transmitter devices can be easily and accurately positioned according to IEC 62209-1, IEEE 1528, FCC, or other specifications. The device holder can be locked for positioning at different phantom sections (left head, right head, flat). And upgrade kit to Mounting Device to enable easy mounting of wider devices like big smart-phones, e-books, small tablets, etc. It holds devices with width up to 140 mm.



Mounting Device for Hand-Held Transmitters



Mounting Device Adaptor for Wide-Phones

<Mounting Device for Laptops and other Body-Worn Transmitters>

The extension is lightweight and made of POM, acrylic glass and foam. It fits easily on the upper part of the mounting device in place of the phone positioned. The extension is fully compatible with the SAM Twin and ELI phantoms.



Mounting Device for Laptops

7. Measurement Procedures

The measurement procedures are as follows:

- (a) Use base station simulator to configure EUT WWAN transmission in radiated connection, and engineering software to configure EUT WLAN/BT continuously transmission, at maximum RF power, in the highest power channel.
- (b) Place the EUT in the positions as Appendix D demonstrates.
- (c) Set scan area, grid size and other setting on the DASY software.
- (d) Measure SAR results for the highest power channel on each testing position.
- (e) Find out the largest SAR result on these testing positions of each band
- (f) Measure SAR results for other channels in worst SAR testing position if the reported SAR of highest power channel is larger than 0.8 W/kg

According to the test standard, the recommended procedure for assessing the peak spatial-average SAR value consists of the following steps:

- (a) Power reference measurement
- (b) Area scan
- (c) Zoom scan
- (d) Power drift measurement

7.1 Spatial Peak SAR Evaluation

The procedure for spatial peak SAR evaluation has been implemented according to the test standard. It can be conducted for 1g and 10g, as well as for user-specific masses. The DASY software includes all numerical procedures necessary to evaluate the spatial peak SAR value.

The base for the evaluation is a "cube" measurement. The measured volume must include the 1g and 10g cubes with the highest averaged SAR values. For that purpose, the center of the measured volume is aligned to the interpolated peak SAR value of a previously performed area scan.

The entire evaluation of the spatial peak values is performed within the post-processing engine (SEMCAD). The system always gives the maximum values for the 1g and 10g cubes. The algorithm to find the cube with highest averaged SAR is divided into the following stages:

- (a) Extraction of the measured data (grid and values) from the Zoom Scan
- (b) Calculation of the SAR value at every measurement point based on all stored data (A/D values and measurement parameters)
- (c) Generation of a high-resolution mesh within the measured volume
- (d) Interpolation of all measured values from the measurement grid to the high-resolution grid
- (e) Extrapolation of the entire 3-D field distribution to the phantom surface over the distance from sensor to surface
- (f) Calculation of the averaged SAR within masses of 1g and 10g

7.2 Power Reference Measurement

The Power Reference Measurement and Power Drift Measurements are for monitoring the power drift of the device under test in the batch process. The minimum distance of probe sensors to surface determines the closest measurement point to phantom surface. This distance cannot be smaller than the distance of sensor calibration points to probe tip as defined in the probe properties.

7.3 Area Scan

The area scan is used as a fast scan in two dimensions to find the area of high field values, before doing a fine measurement around the hot spot. The sophisticated interpolation routines implemented in DASY software can find the maximum found in the scanned area, within a range of the global maximum. The range (in dB0) is specified in the standards for compliance testing. For example, a 2 dB range is required in IEEE standard 1528 and IEC 62209 standards, whereby 3 dB is a requirement when compliance is assessed in accordance with the ARIB standard (Japan), if only one zoom scan follows the area scan, then only the absolute maximum will be taken as reference. For cases where multiple maximums are detected, the number of zoom scans has to be increased accordingly.

Area scan parameters extracted from FCC KDB 865664 D01v01r04 SAR measurement 100 MHz to 6 GHz.

	≤ 3 GHz	> 3 GHz
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface	5 ± 1 mm	$\frac{1}{2} \cdot \delta \cdot \ln(2) \pm 0.5$ mm
Maximum probe angle from probe axis to phantom surface normal at the measurement location	$30^\circ \pm 1^\circ$	$20^\circ \pm 1^\circ$
Maximum area scan spatial resolution: Δx_{Area} , Δy_{Area}	≤ 2 GHz: ≤ 15 mm $2 - 3$ GHz: ≤ 12 mm	$3 - 4$ GHz: ≤ 12 mm $4 - 6$ GHz: ≤ 10 mm
	When the x or y dimension of the test device, in the measurement plane orientation, is smaller than the above, the measurement resolution must be $\leq$ the corresponding x or y dimension of the test device with at least one measurement point on the test device.	

7.4 Zoom Scan

Zoom scans are used to assess the peak spatial SAR values within a cubic averaging volume containing 1 gram and 10 gram of simulated tissue. The zoom scan measures points (refer to table below) within a cube whose base faces are centered on the maxima found in a preceding area scan job within the same procedure. When the measurement is done, the zoom scan evaluates the averaged SAR for 1 gram and 10 gram and displays these values next to the job's label.

Zoom scan parameters extracted from FCC KDB 865664 D01v01r04 SAR measurement 100 MHz to 6 GHz.

			≤ 3 GHz	> 3 GHz
Maximum zoom scan spatial resolution: $\Delta x_{\text{Zoom}}, \Delta y_{\text{Zoom}}$			≤ 2 GHz: ≤ 8 mm 2 – 3 GHz: ≤ 5 mm*	3 – 4 GHz: ≤ 5 mm* 4 – 6 GHz: ≤ 4 mm*
Maximum zoom scan spatial resolution, normal to phantom surface	uniform grid: $\Delta z_{\text{Zoom}}(n)$		≤ 5 mm	3 – 4 GHz: ≤ 4 mm 4 – 5 GHz: ≤ 3 mm 5 – 6 GHz: ≤ 2 mm
	graded grid	$\Delta z_{\text{Zoom}}(1)$: between 1 st two points closest to phantom surface	≤ 4 mm	3 – 4 GHz: ≤ 3 mm 4 – 5 GHz: ≤ 2.5 mm 5 – 6 GHz: ≤ 2 mm
		$\Delta z_{\text{Zoom}}(n>1)$: between subsequent points	$\leq 1.5 \cdot \Delta z_{\text{Zoom}}(n-1)$	
Minimum zoom scan volume	x, y, z		≥ 30 mm	3 – 4 GHz: ≥ 28 mm 4 – 5 GHz: ≥ 25 mm 5 – 6 GHz: ≥ 22 mm
Note: δ is the penetration depth of a plane-wave at normal incidence to the tissue medium; see draft standard IEEE P1528-2011 for details.				
* When zoom scan is required and the <i>reported</i> SAR from the <i>area scan based 1-g SAR estimation</i> procedures of KDB 447498 is ≤ 1.4 W/kg, ≤ 8 mm, ≤ 7 mm and ≤ 5 mm zoom scan resolution may be applied, respectively, for 2 GHz to 3 GHz, 3 GHz to 4 GHz and 4 GHz to 6 GHz.				

7.5 Volume Scan Procedures

The volume scan is used to assess overlapping SAR distributions for antennas transmitting in different frequency bands. It is equivalent to an oversized zoom scan used in standalone measurements. The measurement volume will be used to enclose all the simultaneous transmitting antennas. For antennas transmitting simultaneously in different frequency bands, the volume scan is measured separately in each frequency band. In order to sum correctly to compute the 1g aggregate SAR, the EUT remain in the same test position for all measurements and all volume scan use the same spatial resolution and grid spacing. When all volume scan were completed, the software, SEMCAD postprocessor can combine and subsequently superpose these measurement data to calculating the multiband SAR.

7.6 Power Drift Monitoring

All SAR testing is under the EUT install full charged battery and transmit maximum output power. In DASy measurement software, the power reference measurement and power drift measurement procedures are used for monitoring the power drift of EUT during SAR test. Both these procedures measure the field at a specified reference position before and after the SAR testing. The software will calculate the field difference in dB. If the power drifts more than 5%, the SAR will be retested.

8. Test Equipment List

Manufacturer	Name of Equipment	Type/Model	Serial Number	Calibration	
				Last Cal.	Due Date
SPEAG	2450MHz System Validation Kit ⁽²⁾	D2450V2	806	Mar. 24, 2022	Mar. 22, 2024
SPEAG	5GHz System Validation Kit ⁽²⁾	D5GHzV2	1171	Apr. 20, 2021	Apr. 17, 2024
SPEAG	6500MHz System Validation Kit	D6.5GHzV2	1003	Mar. 15, 2023	Mar. 14, 2024
SPEAG	5G Verification Source	10GHz	1020	Jan. 20, 2023	Jan. 19, 2024
SPEAG	EUmmWV Probe Tip Protection	EUmmWV4	9461	Oct. 12, 2023	Oct. 11, 2024
SPEAG	Data Acquisition Electronics	DAE4	854	Aug. 17, 2023	Aug. 16, 2024
SPEAG	Data Acquisition Electronics	DAE4	1311	Sep. 13, 2023	Sep. 12, 2024
SPEAG	Dosimetric E-Field Probe	EX3DV4	3728	Mar. 22, 2023	Mar. 21, 2024
Testo	Hygro meter	608-H1	45196600	Nov. 02, 2023	Nov. 01, 2024
R&S	BT Base Station	CBT	101136	Oct. 22, 2023	Oct. 21, 2024
SPEAG	Device Holder	N/A	N/A	N/A	N/A
Anritsu	Signal Generator	MG3710A	6201502524	Sep. 27, 2023	Sep. 26, 2024
Keysight	ENA Network Analyzer	E5071C	MY46104758	Oct. 30, 2023	Oct. 29, 2024
SPEAG	Dielectric Probe Kit	DAK-3.5	1126	Sep. 19, 2023	Sep. 18, 2024
LINE SEIKI	Digital Thermometer	DTM3000-spezial	3690	Aug. 09, 2023	Aug. 08, 2024
Anritsu	Power Meter	ML2495A	1419002	Aug. 17, 2023	Aug. 16, 2024
Anritsu	Power Sensor	MA2411B	1911176	Aug. 18, 2023	Aug. 17, 2024
Anritsu	Spectrum Analyzer	MS2830A	6201396378	Jul. 10, 2023	Jul. 09, 2024
Mini-Circuits	Power Amplifier	ZVE-8G+	6418	Oct. 16, 2023	Oct. 15, 2024
ATM	Dual Directional Coupler	C122H-10	P610410z-02	Note 1	
Warison	Directional Coupler	WCOU-10-50S-10	WR889BMC4B1	Note 1	
Woken	Attenuator 1	WK0602-XX	N/A	Note 1	
PE	Attenuator 2	PE7005-10	N/A	Note 1	
PE	Attenuator 3	PE7005- 3	N/A	Note 1	

General Note:

1. Prior to system verification and validation, the path loss from the signal generator to the system check source and the power meter, which includes the amplifier, cable, attenuator and directional coupler, was measured by the network analyzer. The reading of the power meter was offset by the path loss difference between the path to the power meter and the path to the system check source to monitor the actual power level fed to the system check source.
2. The dipole calibration interval can be extended to 3 years with justification according to KDB 865664 D01. The dipoles are also not physically damaged, or repaired during the interval. The justification data in appendix C can be found which the return loss is < -20dB, within 20% of prior calibration, the impedance is within 5 ohm of prior calibration for each dipole.



9. System Verification

9.1 Tissue Verification

The tissue dielectric parameters of tissue-equivalent media used for SAR measurements must be characterized within a temperature range of 18°C to 25°C, measured with calibrated instruments and apparatuses, such as network analyzers and temperature probes. The temperature of the tissue-equivalent medium during SAR measurement must also be within 18°C to 25°C and within $\pm 2^\circ\text{C}$ of the temperature when the tissue parameters are characterized. The tissue dielectric measurement system must be calibrated before use. The dielectric parameters must be measured before the tissue-equivalent medium is used in a series of SAR measurements.

The liquid tissue depth was at least 15cm in the phantom for all SAR testing

<Tissue Dielectric Parameter Check Results>

Frequency (MHz)	Liquid Temp. (°C)	Conductivity (σ)	Permittivity (ϵ_r)	Conductivity Target (σ)	Permittivity Target (ϵ_r)	Delta (σ) (%)	Delta (ϵ_r) (%)	Limit (%)	Date
2450	22.5	1.830	39.100	1.80	39.20	1.67	-0.26	± 5	2023/11/17
5250	22.5	4.620	36.200	4.71	35.95	-1.91	0.70	± 5	2023/11/18
5600	22.5	4.950	35.700	5.07	35.50	-2.37	0.56	± 5	2023/11/18
5750	22.5	5.180	35.500	5.22	35.35	-0.77	0.42	± 5	2023/11/18
5850	22.5	5.190	35.300	5.32	35.25	-2.44	0.14	± 5	2023/11/18
6500	22.5	6.050	34.700	6.07	34.50	-0.33	0.58	± 5	2023/11/17

9.2 System Performance Check Results

Comparing to the original SAR value provided by SPEAG, the verification data should be within its specification of 10 %. Below table shows the target SAR and measured SAR after normalized to 1W input power. The table below indicates the system performance check can meet the variation criterion and the plots can be referred to Appendix A of this report.

Test Site	Date	Frequency (MHz)	Input Power (mW)	Dipole S/N	Probe S/N	DAE S/N	Measured 1g SAR (W/kg)	Targeted 1g SAR (W/kg)	Normalized 1g SAR (W/kg)	Deviation (%)
SAR-06	2023/11/17	2450	50	D2450V2-806	EX3DV4 - SN3728	DAE4 Sn1311	2.590	52.700	51.8	-1.71
SAR-06	2023/11/18	5250	50	D5GHzV2-1171-5250	EX3DV4 - SN3728	DAE4 Sn1311	3.910	80.300	78.2	-2.62
SAR-06	2023/11/18	5600	50	D5GHzV2-1171-5600	EX3DV4 - SN3728	DAE4 Sn1311	4.240	83.400	84.8	1.68
SAR-06	2023/11/18	5750	50	D5GHzV2-1171-5750	EX3DV4 - SN3728	DAE4 Sn1311	3.840	80.400	76.8	-4.48
SAR-06	2023/11/18	5850	50	D5GHzV2-1171-5850	EX3DV4 - SN3728	DAE4 Sn1311	4.210	82.300	84.2	2.31
SAR-06	2023/11/17	6500	100	D6.5GHzV2-1003	EX3DV4 - SN3728	DAE4 Sn1311	27.000	297.000	270	-9.09

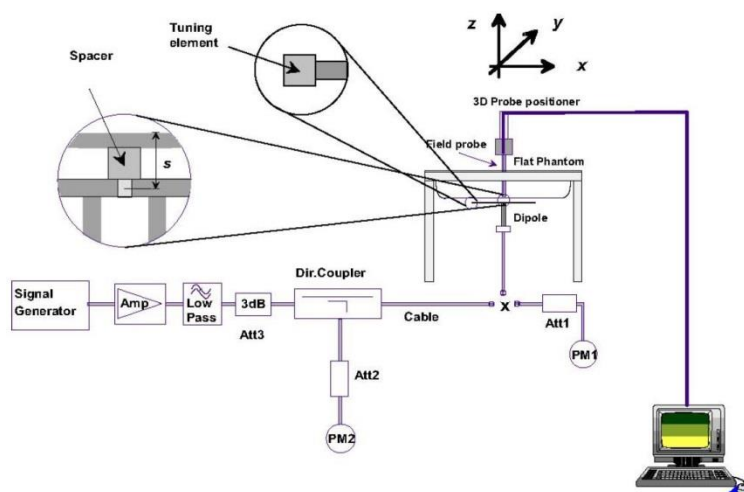


Fig 8.3.1 System Performance Check Setup



Fig 8.3.2 Setup Photo

9.3 PD System Performance Check Results

The system was verified to be within ± 0.66 dB of the power density targets on the calibration certificate according to the test system specification in the user's manual and calibration facility recommendation. The 0.66 dB deviation threshold represents the expanded uncertainty for system performance checks using SPEAG's mmWave verification sources. The same spatial resolution and measurement region used in the source calibration was applied during the system check. The measured power density distribution of verification source was also confirmed through visual inspection to have no noticeable differences, both spatially (shape) and numerically (level) from the distribution provided by the manufacturer, per November 2017 TCBC Workshop Notes

Test Location	Frequency (GHz)	5G Verification Source	Probe S/N	DAE S/N	Distance (mm)	Measured $4 \text{ cm}^2 \text{ (W/m}^2\text{)}$	Targeted $4 \text{ cm}^2 \text{ (W/m}^2\text{)}$	Deviation (dB)	Date
SAR01	10G	10GHz_1020	9461	DAE4-854	10mm	56.9	54.9	0.16	2023/11/14

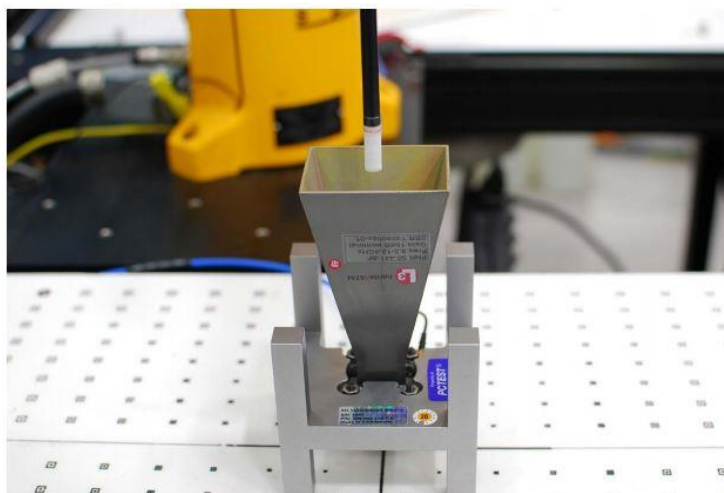


Figure 4-3
System Verification Setup Photo

System Performance Check Setup

10. RF Exposure Positions

10.1 SAR Testing for Tablet

This device can be used also in full sized tablet exposure conditions, due to its size. Per FCC KDB 616217, the back surface and edges of the tablet should be tested for SAR compliance with the tablet touching the phantom. The SAR exclusion threshold in KDB 447498 D01v06 can be applied to determine SAR test exclusion for adjacent edge configurations. The closest distance from the antenna to an adjacent tablet edge is used to determine if SAR testing is required for the adjacent edges, with the adjacent edge positioned against the phantom and the edge containing the antenna positioned perpendicular to the phantom.

11. WiFi/Bluetooth Output Power (Unit: dBm)

General Note:

1. For each antenna, transmit power in SISO operation is larger than (or equal to) the power in MIMO operation, RF exposure compliance of MIMO mode can be deduced from the compliance simultaneous transmission of antennas operating in SISO mode.
2. Per KDB 248227 D01v02r02, the simultaneous SAR provisions in KDB publication 447498 should be applied to determine simultaneous transmission SAR test exclusion for WiFi MIMO. If the sum of 1g single transmission chain SAR measurements is $< 1.6\text{W/kg}$ and SAR peak to location ratio ≤ 0.04 , no additional SAR measurements for MIMO.
3. The maximum output power specified for production units are determined for all applicable 802.11 transmission modes in each standalone and aggregated frequency band. Maximum output power is measured for the highest maximum output power configuration(s) in each frequency band according to the default power measurement procedures. For "Not required", SAR Test reduction was applied from KDB 248227 guidance, Sec. 2.1, b), 1) when the same maximum power is specified for multiple transmission modes in a frequency band, the largest channel bandwidth, lowest order modulation, lowest data rate and lowest order 802.11a/g/n/ac mode is used for SAR measurement, on the highest measured output power channel in the initial test configuration, additional output power measurements were not necessary.
4. Per KDB 248227 D01v02r02, SAR test reduction is determined according to 802.11 transmission mode configurations and certain exposure conditions with multiple test positions. In the 2.4 GHz band, separate SAR procedures are applied to DSSS and OFDM configurations to simplify DSSS test requirements. For OFDM, in both 2.4 and 5 GHz bands, an initial test configuration must be determined for each standalone and aggregated frequency band, according to the transmission mode configuration with the highest maximum output power specified for production units to perform SAR measurements. If the same highest maximum output power applies to different combinations of channel bandwidths, modulations and data rates, additional procedures are applied to determine which test configurations require SAR measurement. When applicable, an initial test position may be applied to reduce the number of SAR measurements required for next to the ear, UMPC mini-tablet or hotspot mode configurations with multiple test positions.
5. For 2.4 GHz 802.11b DSSS, either the initial test position procedure for multiple exposure test positions or the DSSS procedure for fixed exposure position is applied; these are mutually exclusive. For 2.4 GHz and 5 GHz OFDM configurations, the initial test configuration is applied to measure SAR using either the initial test position procedure for multiple exposure test position configurations or the initial test configuration procedures for fixed exposure test conditions. Based on the reported SAR of the measured configurations and maximum output power of the transmission mode configurations that are not included in the initial test configuration, the subsequent test configuration and initial test position procedures are applied to determine if SAR measurements are required for the remaining OFDM transmission configurations. In general, the number of test channels that require SAR measurement is minimized based on maximum output power measured for the test sample(s).
6. For OFDM transmission configurations in the 2.4 GHz and 5 GHz bands, When the same maximum power is specified for multiple transmission modes in a frequency band, the largest channel bandwidth, lowest order modulation, lowest data rate and lowest order 802.11a/g/n/ac mode is used for SAR measurement, on the highest measured output power channel for each frequency band.
7. DSSS and OFDM configurations are considered separately according to the required SAR procedures. SAR is measured in the initial test position using the 802.11 transmission mode configuration required by the DSSS procedure or initial test configuration and subsequent test configuration(s) according to the OFDM procedures. 18 The initial test position procedure is described in the following:
 - a. When the reported SAR of the initial test position is $\leq 0.4\text{ W/kg}$, further SAR measurement is not required for the other test positions in that exposure configuration and 802.11 transmission mode combinations within the frequency band or aggregated band.
 - b. When the reported SAR of the test position is $> 0.4\text{ W/kg}$, SAR is repeated for the 802.11 transmission mode configuration tested in the initial test position to measure the subsequent next closet/smallest test separation distance and maximum coupling test position on the highest maximum output power channel, until the report SAR is $\leq 0.8\text{ W/kg}$ or all required test position are tested.
 - c. For all positions/configurations, when the reported SAR is $> 0.8\text{ W/kg}$, SAR is measured for these test positions/configurations on the subsequent next highest measured output power channel(s) until the reported SAR is $\leq 1.2\text{ W/kg}$ or all required channels are tested.
8. Per 201904 TCBC workshops, General principles of FCC KDB Publication 248227 D01 can be applied to determine the SAR Initial Test Configurations and test reduction for 802.11ax SAR testing. For the table below the 802.11ax maximum power is SU (non-OFDMA), and the SU maximum power also higher than RU (OFDMA)
9. In applying the test guidance, the IEEE 802.11 mode with the maximum output power (out of all modes) should be considered for testing
10. For modes with the same maximum output power, the guidance from section 5.3.2 a) of FCC KDB Publication 248227 D01 should be applied, with 802.11ax being considered as the highest 802.11 mode for the appropriate frequency bands
11. When SAR testing for 802.11ax is required
 - a. If the maximum output power is highest for OFDMA scenarios, choose the tone size with the maximum number of tones and the highest maximum output power
 - b. Otherwise, consider the fully allocated channel for SAR testing
 - c. When SAR testing is required on RU sizes less than the fully allocated channel, use the RU number closest to the middle of the channel, choosing the higher RU number when two RUs are equidistant to the middle of the channel



<Tablet Mode>

	Mode	Channel	Frequency (MHz)	Aux Ant			Main Ant			Aux+Main Ant (Aux)		Aux+Main Ant (Main)		Aux+Main Ant		
				Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
2.4GHz WLAN	802.11b 1Mbps	1	2412	18.20	18.50	98.59	18.40	18.50	98.59	Not Required	20.50	Not Required	20.50	Not Required	18.50	Not Required
		6	2437	18.10	18.50		18.40	18.50			20.50		20.50		18.50	
		11	2462	18.40	18.50		18.30	18.50			20.00		20.00		18.50	
		12	2467	18.40	18.50		18.30	18.50			15.00		15.00		18.00	
		13	2472	15.40	15.50		15.30	15.50			10.50		10.50		13.50	
	802.11g 6Mbps	1	2412	Not Required	18.00	Not Required	Not Required	18.00	Not Required	Not Required	17.50	Not Required	17.50	Not Required	18.50	Not Required
		6	2437		18.50			18.50			20.50		20.50		18.50	
		11	2462		18.50			18.50			17.50		17.50		18.50	
		12	2467		17.50			17.50			16.50		16.50		18.50	
		13	2472		15.50			15.50			13.50		13.50		16.50	
	802.11n-HT20 MCS0	1	2412		17.50			17.50			16.50		16.50		18.50	
		6	2437		18.50			18.50			20.50		20.50		18.50	
		11	2462		18.50			18.50			17.50		17.50		18.50	
		12	2467		17.50			17.50			16.00		16.00		18.50	
		13	2472		15.50			15.50			14.00		14.00		17.00	
	802.11n-HT40 MCS0	3	2422		16.00			16.00			14.50		14.50		17.50	
		6	2437		18.50			18.50			18.00		18.00		18.50	
		9	2452		17.50			17.50			16.50		16.50		18.50	
		10	2457		16.50			16.50			16.00		16.00		18.50	
		11	2462		16.00			16.00			15.50		15.50		18.50	
	802.11ax-HE20 MCS0	1	2412		17.50			17.50			15.50		15.50		18.50	
		6	2437		18.50			18.50			15.50		15.50		18.50	
		11	2462		18.50			18.50			15.50		15.50		18.50	
		12	2467		17.50			17.50			15.50		15.50		18.50	
		13	2472		15.50			15.50			14.00		14.00		17.00	
	802.11ax-HE40 MCS0	3	2422		16.00			16.00			14.50		14.50		17.50	
		6	2437		18.50			18.50			15.50		15.50		18.50	
		9	2452		17.50			17.50			15.50		15.50		18.50	
		10	2457		16.50			16.50			15.50		15.50		18.50	
		11	2462		16.00			16.00			15.50		15.50		18.50	
	802.11be-EHT20 MCS0	1	2412		16.00			16.00			15.50		15.50		18.50	
		6	2437		16.00			16.00			15.50		15.50		18.50	
		11	2462		16.00			16.00			15.50		15.50		18.50	
		12	2467		16.00			16.00			15.50		15.50		18.50	
		13	2472		16.00			16.00			15.50		15.50		18.50	
	802.11be-EHT40 MCS0	3	2422		16.00			16.00			15.50		15.50		18.50	
		6	2437		16.00			16.00			15.50		15.50		18.50	
		9	2452		16.00			16.00			15.50		15.50		18.50	
		10	2457		16.00			16.00			15.50		15.50		18.50	
		11	2462		16.00			16.00			15.50		15.50		18.50	



	Mode	Channel	Frequency (MHz)	Aux Ant			Main Ant			Aux+Main Ant (Aux)		Aux+Main Ant (Main)		Aux+Main Ant		
				Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.2GHz WLAN	802.11a 6Mbps	36	5180	Not Required	16.50	Not Required	Not Required	16.50	Not Required	Not Required	13.50	Not Required	13.50	Not Required	16.50	Not Required
		40	5200													
		44	5220													
		48	5240													
	802.11n-HT20 MCS0	36	5180													
		40	5200													
		44	5220													
		48	5240													
	802.11n-HT40 MCS0	38	5190													
		46	5230													
	802.11ac-VHT20 MCS0	36	5180													
		40	5200													
		44	5220													
		48	5240													
	802.11ac-VHT40 MCS0	38	5190													
		46	5230													
	802.11ac-VHT80 MCS0	42	5210													
	802.11ax-HE20 MCS0	36	5180													
		40	5200													
		44	5220													
		48	5240													
	802.11ax-HE40 MCS0	38	5190													
		46	5230													
	802.11ax-HE80 MCS0	42	5210													
	802.11be-EHT20 MCS0	36	5180													
		40	5200													
		44	5220													
		48	5240													
	802.11be-EHT40 MCS0	38	5190													
		46	5230													
	802.11be-EHT80 MCS0	42	5210													



				Aux Ant			Main Ant			Aux+Main Ant (Aux)		Aux+Main Ant (Main)		Aux+Main Ant		
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.3GHz WLAN	802.11a 6Mbps	52	5260	Not Required	16.50	Not Required	Not Required	16.50	Not Required	Not Required	13.50	Not Required	13.50	Not Required	16.50	Not Required
		56	5280		16.50			16.50			13.50		13.50		16.50	
		60	5300		16.50			16.50			13.50		13.50		16.50	
		64	5320		16.50			16.50			13.50		13.50		16.50	
	802.11n-HT20 MCS0	52	5260		16.50			16.50			13.50		13.50		16.50	
		56	5280		16.50			16.50			13.50		13.50		16.50	
		60	5300		16.50			16.50			13.50		13.50		16.50	
		64	5320		16.50			16.50			13.50		13.50		16.50	
	802.11n-HT40 MCS0	54	5270		16.50			16.50			13.50		13.50		16.50	
		62	5310		16.50			16.50			13.50		13.50		16.50	
	802.11ac-VHT20 MCS0	52	5260		16.50			16.50			13.50		13.50		16.50	
		56	5280		16.50			16.50			13.50		13.50		16.50	
		60	5300		16.50			16.50			13.50		13.50		16.50	
		64	5320		16.50			16.50			13.50		13.50		16.50	
	802.11ac-VHT40 MCS0	54	5270		16.50			16.50			13.50		13.50		16.50	
		62	5310		16.50			16.50			13.50		13.50		16.50	
	802.11ac-VHT80 MCS0	58	5290		16.50			16.50			13.50		13.50		16.50	
	802.11ac-VHT160 MCS0	50	5250	16.10	16.50	87.86	16.2	16.50	87.86		13.50	13.50	16.50			
	802.11ax-HE20 MCS0	52	5260	Not Required	16.50	Not Required	Not Required	16.50	Not Required		13.50	13.50	16.50			
		56	5280		16.50			16.50			13.50	13.50	16.50			
		60	5300		16.50			16.50			13.50	13.50	16.50			
		64	5320		16.50			16.50			13.50	13.50	16.50			
	802.11ax-HE40 MCS0	54	5270		16.50			16.50			13.50	13.50	16.50			
		62	5310		16.50			16.50			13.50	13.50	16.50			
	802.11ax-HE80 MCS0	58	5290		16.50			16.50			13.50	13.50	16.50			
	802.11ax-HE160 MCS0	50	5250		16.50			16.50			13.50	13.50	16.50			



				Aux Ant			Main Ant			Aux+Main Ant (Aux)		Aux+Main Ant (Main)		Aux+Main Ant		
5.5GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
	802.11a 6Mbps	100	5500	Not Required	16.50	Not Required	Not Required	16.50	Not Required	Not Required	13.50	Not Required	13.50	Not Required	16.50	Not Required
		116	5580		16.50			16.50			13.50		13.50		16.50	
		124	5620		16.50			16.50			13.50		13.50		16.50	
		132	5660		16.50			16.50			13.50		13.50		16.50	
		144	5720		16.50			16.50			13.50		13.50		16.50	
	802.11n-HT20 MCS0	100	5500		16.50			16.50			13.50		13.50		16.50	
		116	5580		16.50			16.50			13.50		13.50		16.50	
		124	5620		16.50			16.50			13.50		13.50		16.50	
		132	5660		16.50			16.50			13.50		13.50		16.50	
		144	5720		16.50			16.50			13.50		13.50		16.50	
	802.11n-HT40 MCS0	102	5510		16.50			16.50			13.50		13.50		16.50	
		110	5550		16.50			16.50			13.50		13.50		16.50	
		126	5630		16.50			16.50			13.50		13.50		16.50	
		134	5670		16.50			16.50			13.50		13.50		16.50	
		142	5710		16.50			16.50			13.50		13.50		16.50	
	802.11ac-VHT20 MCS0	100	5500		16.50			16.50			13.50		13.50		16.50	
		116	5580		16.50			16.50			13.50		13.50		16.50	
		124	5620		16.50			16.50			13.50		13.50		16.50	
		132	5660		16.50			16.50			13.50		13.50		16.50	
		144	5720		16.50			16.50			13.50		13.50		16.50	
	802.11ac-VHT40 MCS0	102	5510		16.50			16.50			13.50		13.50		16.50	
		110	5550		16.50			16.50			13.50		13.50		16.50	
		126	5630		16.50			16.50			13.50		13.50		16.50	
		134	5670		16.50			16.50			13.50		13.50		16.50	
		142	5710		16.50			16.50			13.50		13.50		16.50	
	802.11ac-VHT80 MCS0	106	5530		16.50			16.50			13.50		13.50		16.50	
		122	5610		16.50			16.50			13.50		13.50		16.50	
138		5690	16.50		16.50			13.50			13.50		16.50			
802.11ac-VHT160 MCS0	114	5570	16.20	16.50	87.86	16.40	16.50	87.86	13.50	13.50	16.50					
802.11ax-HE20 MCS0	100	5500	Not Required	16.50	Not Required	Not Required	16.50	Not Required	Not Required	13.50	Not Required	13.50	Not Required	16.50	Not Required	
	116	5580		16.50			16.50			13.50		13.50		16.50		
	124	5620		16.50			16.50			13.50		13.50		16.50		
	132	5660		16.50			16.50			13.50		13.50		16.50		
	144	5720		16.50			16.50			13.50		13.50		16.50		
802.11ax-HE40 MCS0	102	5510		16.50			16.50			13.50		13.50		16.50		
	110	5550		16.50			16.50			13.50		13.50		16.50		
	126	5630		16.50			16.50			13.50		13.50		16.50		
	134	5670		16.50			16.50			13.50		13.50		16.50		
	142	5710		16.50			16.50			13.50		13.50		16.50		
802.11ax-HE80 MCS0	106	5530		16.50			16.50			13.50		13.50		16.50		
	122	5610		16.50			16.50			13.50		13.50		16.50		
	138	5690		16.50			16.50			13.50		13.50		16.50		
802.11ax-HE160 MCS0	114	5570		16.50			16.50			13.50		13.50		16.50		



				Aux Ant			Main Ant			Aux+Main Ant (Aux)		Aux+Main Ant (Main)		Aux+Main Ant		
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.8GHz WLAN	802.11a 6Mbps	149	5745	Not Required	16.50	Not Required	Not Required	16.50	Not Required	Not Required	13.50	Not Required	13.50	Not Required	16.50	Not Required
		157	5785		16.50			16.50			13.50		13.50		16.50	
		165	5825		16.50			16.50			13.50		13.50		16.50	
	802.11n-HT20 MCS0	149	5745		16.50			16.50			13.50		13.50		16.50	
		157	5785		16.50			16.50			13.50		13.50		16.50	
		165	5825		16.50			16.50			13.50		13.50		16.50	
	802.11n-HT40 MCS0	151	5755		16.50			16.50			13.50		13.50		16.50	
		159	5795		16.50			16.50			13.50		13.50		16.50	
	802.11ac-VHT20 MCS0	149	5745		16.50			16.50			13.50		13.50		16.50	
		157	5785		16.50			16.50			13.50		13.50		16.50	
		165	5825		16.50			16.50			13.50		13.50		16.50	
	802.11ac-VHT40 MCS0	151	5755		16.50			16.50			13.50		13.50		16.50	
		159	5795		16.50			16.50			13.50		13.50		16.50	
	802.11ac-VHT80 MCS0	155	5775	16.20	16.50	87.86	16.40	16.50	87.86	Not Required	13.50	Not Required	13.50	Not Required	16.50	Not Required
	802.11ax-HE20 MCS0	149	5745	Not Required	16.50	Not Required	Not Required	16.50	Not Required	Not Required	13.50	Not Required	13.50	Not Required	16.50	Not Required
		157	5785		16.50			16.50			13.50		13.50		16.50	
		165	5825		16.50			16.50			13.50		13.50		16.50	
	802.11ax-HE40 MCS0	151	5755		16.50			16.50			13.50		13.50		16.50	
		159	5795		16.50			16.50			13.50		13.50		16.50	
	802.11ax-HE80 MCS0	155	5775		16.50			16.50			13.50		13.50		16.50	
	802.11be-EHT20 MCS0	149	5745		16.50			16.50			13.50		13.50		16.50	
		157	5785		16.50			16.50			13.50		13.50		16.50	
		165	5825		16.50			16.50			13.50		13.50		16.50	
	802.11be-EHT40 MCS0	151	5755		16.50			16.50			13.50		13.50		16.50	
		159	5795		16.50			16.50			13.50		13.50		16.50	
	802.11be-EHT80 MCS0	155	5775		16.50			16.50			13.50		13.50		16.50	



	Mode	Channel	Frequency (MHz)	Aux Ant			Main Ant			Aux+Main Ant (Aux)		Aux+Main Ant (Main)		Aux+Main Ant		
				Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.9GHz WLAN	802.11a 6Mbps	169	5845	Not Required	16.50	Not Required	Not Required	16.50	Not Required	Not Required	13.50	Not Required	13.50	Not Required	16.50	Not Required
		173	5865		16.50			16.50			13.50		13.50		16.50	
		177	5885		16.50			16.50			13.50		13.50		16.50	
	802.11n-HT20 MCS0	169	5845		16.50			16.50			13.50		13.50		16.50	
		173	5865		16.50			16.50			13.50		13.50		16.50	
		177	5885		16.50			16.50			13.50		13.50		16.50	
	802.11ac-VHT20 MCS0	169	5845		16.50			16.50			13.50		13.50		16.50	
		173	5865		16.50			16.50			13.50		13.50		16.50	
		177	5885		16.50			16.50			13.50		13.50		16.50	
	802.11ac-VHT80 MCS0	171	5855		16.50			16.50			13.50		13.50		16.50	
	802.11ac-VHT160 MCS0	163	5815	16.30	16.50	87.86	16.40	16.50	87.86		13.50		13.50		16.50	
	802.11ax-HE20 MCS0	169	5845	Not Required	16.50	Not Required	Not Required	16.50	Not Required	Not Required	13.50	Not Required	13.50	Not Required	16.50	Not Required
		173	5865		16.50			16.50			13.50		13.50		16.50	
		177	5885		16.50			16.50			13.50		13.50		16.50	
	802.11ax-HE80 MCS0	171	5855		16.50			16.50			13.50		13.50		16.50	
	802.11ax-HE160 MCS0	163	5815		16.50			16.50			13.50		13.50		16.50	
	802.11be-EHT20 MCS0	169	5845		16.50			16.50			13.50		13.50		16.50	
		173	5865		16.50			16.50			13.50		13.50		16.50	
		177	5885		16.50			16.50			13.50		13.50		16.50	
	802.11be-EHT40 MCS0	167	5835		16.50			16.50			13.50		13.50		16.50	
		175	5875		16.50			16.50			13.50		13.50		16.50	
	802.11be-EHT80 MCS0	171	5855		16.50			16.50			13.50		13.50		16.50	
	802.11be-EHT160 MCS0	163	5815		16.50			16.50			13.50		13.50		16.50	



				Aux Ant			Main Ant			Aux+Main Ant (Aux)		Aux+Main Ant (Main)		Aux+Main Ant		
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
WiFi 6E LPI	802.11a 6Mbps	1	5955	Not Required	7.00	Not Required	Not Required	7.00	Not Required	Not Required	1.00	Not Required	1.00	Not Required	4.00	Not Required
		57	6235		7.00			7.00			1.00		1.00		4.00	
		113	6515		7.00			7.00			1.50		1.50		4.50	
		173	6815		7.00			7.00			1.00		1.00		4.00	
		233	7115		7.50			7.50			1.50		1.50		4.50	
	802.11ax-HE20 MCS0	1	5955		7.00			7.00			3.50		3.50		6.50	
		57	6235		7.00			7.00			3.50		3.50		6.50	
		113	6515		7.50			7.50			4.00		4.00		7.00	
		173	6815		7.00			7.00			3.50		3.50		6.50	
		233	7115		7.50			7.50			4.50		4.50		7.50	
	802.11ax-HE40 MCS0	3	5965		9.50			9.50			6.50		6.50		9.50	
		59	6245		9.50			9.50			6.50		6.50		9.50	
		107	6485		10.00			10.00			7.00		7.00		10.00	
		171	6805		9.50			9.50			6.50		6.50		9.50	
		227	7085		10.00			10.00			7.00		7.00		10.00	
	802.11ax-HE80 MCS0	7	5985		12.50			12.50			9.50		9.50		12.50	
		71	6305		12.50			12.50			9.50		9.50		12.50	
		119	6545		12.50			12.50			9.50		9.50		12.50	
		167	6785		12.50			12.50			9.50		9.50		12.50	
		215	7025		13.00			13.00			10.00		10.00		13.00	
	802.11ax-HE160 MCS0	15	6025	14.80	15.00	85.48	14.90	15.00	85.48	Not Required	12.00	Not Required	12.00	Not Required	15.00	Not Required
		47	6185	14.70	15.00		14.70	15.00			12.00		12.00		15.00	
		111	6505	14.90	15.00		14.80	15.00			12.00		12.00		15.00	
		143	6665	14.60	15.00		14.80	15.00			12.00		12.00		15.00	
		207	6985	14.70	15.00		14.80	15.00			12.00		12.00		15.00	
	802.11be-EHT20 MCS0	1	5955	Not Required	7.00	Not Required	Not Required	7.00	Not Required		3.50		3.50		6.50	
		57	6235		7.00			7.00			3.50		3.50		6.50	
		113	6515		7.50			7.50			4.00		4.00		7.00	
		173	6815		7.00			7.00			3.50		3.50		6.50	
		233	7115		7.50			7.50			4.50		4.50		7.50	
	802.11be-EHT40 MCS0	3	5965		9.50			9.50			6.50		6.50		9.50	
		59	6245		9.50			9.50			6.50		6.50		9.50	
		107	6485		10.00			10.00			7.00		7.00		10.00	
		171	6805		9.50			9.50			6.50		6.50		9.50	
		227	7085		10.00			10.00			7.00		7.00		10.00	
	802.11be-EHT80 MCS0	7	5985		12.50			12.50			9.50		9.50		12.50	
		71	6305		12.50			12.50			9.50		9.50		12.50	
		119	6545		12.50			12.50			9.50		9.50		12.50	
		167	6785		12.50			12.50			9.50		9.50		12.50	
		215	7025		13.00			13.00			10.00		10.00		13.00	
	802.11be-EHT160 MCS0	15	6025		15.00			15.00			12.00		12.00		15.00	
		47	6185		15.00			15.00			12.00		12.00		15.00	
		111	6505		15.00			15.00			12.00		12.00		15.00	
		143	6665		15.00			15.00			12.00		12.00		15.00	
		207	6985		15.00			15.00			12.00		12.00		15.00	



				Aux Ant			Main Ant			Aux+Main Ant (Aux)		Aux+Main Ant (Main)		Aux+Main Ant						
WiFi 6E SP	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %				
	802.11a 6Mbps	1	5955	Not Required	15.00	Not Required	Not Required	15.00	Not Required	Not Required	12.00	Not Required	12.00	Not Required	15.00	Not Required				
		57	6235		15.00			15.00			12.00		12.00		15.00					
		173	6815		15.00			15.00			12.00		12.00		15.00					
	802.11ax-HE20 MCS0	1	5955		15.00			15.00			12.00		12.00		15.00					
		57	6235		15.00			15.00			12.00		12.00		15.00					
		173	6815		15.00			15.00			12.00		12.00		15.00					
	802.11ax-HE40 MCS0	3	5965		15.00			15.00			12.00		12.00		15.00					
		59	6245		15.00			15.00			12.00		12.00		15.00					
		171	6805		15.00			15.00			12.00		12.00		15.00					
	802.11ax-HE80 MCS0	7	5985		15.00			15.00			12.00		12.00		15.00					
		71	6305		15.00			15.00			12.00		12.00		15.00					
		167	6785		15.00			15.00			12.00		12.00		15.00					
	802.11ax-HE160 MCS0	15	6025	14.80	15.00	85.48	14.90	15.00	85.48	Not Required	12.00	Not Required	12.00	Not Required	15.00	Not Required				
		47	6185	14.70	15.00		14.70	15.00			12.00		12.00		15.00					
		143	6665	14.60	15.00		14.80	15.00			12.00		12.00		15.00					
	802.11be-EHT20 MCS0	1	5955	Not Required	15.00	Not Required	Not Required	15.00	Not Required		Not Required		12.00		Not Required		12.00	Not Required	15.00	Not Required
		57	6235		15.00			15.00					12.00				12.00		15.00	
		173	6815		15.00			15.00					12.00				12.00		15.00	
	802.11be-EHT40 MCS0	3	5965		15.00			15.00					12.00				12.00		15.00	
		59	6245		15.00			15.00					12.00				12.00		15.00	
		171	6805		15.00			15.00					12.00				12.00		15.00	
	802.11be-EHT80 MCS0	7	5985		15.00			15.00					12.00				12.00		15.00	
		71	6305		15.00			15.00					12.00				12.00		15.00	
		167	6785		15.00			15.00					12.00				12.00		15.00	
	802.11be-EHT160 MCS0	15	6025		15.00			15.00					12.00				12.00		15.00	
		47	6185		15.00			15.00					12.00				12.00		15.00	
143		6665	15.00		15.00			12.00					12.00				15.00			



<Laptop Mode>

	Mode	Channel	Frequency (MHz)	Aux Ant			Main Ant			Aux+Main Ant (Aux)		Aux+Main Ant (Main)		Aux+Main Ant		
				Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
2.4GHz WLAN	802.11b 1Mbps	1	2412	22.10	22.50	98.59	22.30	22.50	98.59		20.50		20.50		23.50	Not Required
		6	2437	22.10	22.50		22.30	22.50			20.50		20.50		23.50	
		11	2462	22.00	22.50		22.30	22.50			20.00		20.00		23.00	
		12	2467	19.40	19.50		19.30	19.50			15.00		15.00		18.00	
		13	2472	15.40	15.50		15.30	15.50			10.50		10.50		13.50	
	802.11g 6Mbps	1	2412	Not Required	18.00	Not Required	18.00	Not Required	Not Required	Not Required	17.50	Not Required	17.50	Not Required	20.50	
		6	2437		21.50		21.50				20.50		20.50		23.50	
		11	2462		18.50		18.50				17.50		17.50		20.50	
		12	2467		17.50		17.50				16.50		16.50		19.50	
		13	2472		15.50		15.50				13.50		13.50		16.50	
	802.11n-HT20 MCS0	1	2412		17.50		17.50				16.50		16.50		19.50	
		6	2437		21.50		21.50				20.50		20.50		23.50	
		11	2462		18.50		18.50				17.50		17.50		20.50	
		12	2467		17.50		17.50				16.00		16.00		19.00	
		13	2472		15.50		15.50				14.00		14.00		17.00	
	802.11n-HT40 MCS0	3	2422		16.00		16.00				14.50		14.50		17.50	
		6	2437		19.50		19.50				18.00		18.00		21.00	
		9	2452		17.50		17.50				16.50		16.50		19.50	
		10	2457		16.50		16.50				16.00		16.00		19.00	
		11	2462		16.00		16.00				15.50		15.50		18.50	
	802.11ax-HE20 MCS0	1	2412		17.50		17.50				16.50		16.50		19.50	
		6	2437		21.50		21.50				20.50		20.50		23.50	
		11	2462		18.50		18.50				17.50		17.50		20.50	
		12	2467		17.50		17.50				16.00		16.00		19.00	
		13	2472		15.50		15.50				14.00		14.00		17.00	
	802.11ax-HE40 MCS0	3	2422		16.00		16.00				14.50		14.50		17.50	
		6	2437		19.50		19.50				18.00		18.00		21.00	
		9	2452		17.50		17.50				16.50		16.50		19.50	
		10	2457		16.50		16.50				16.00		16.00		19.00	
		11	2462		16.00		16.00				15.50		15.50		18.50	
	802.11be-EHT20 MCS0	1	2412		16.00		16.00				15.50		15.50		18.50	
		6	2437		16.00		16.00				15.50		15.50		18.50	
		11	2462		16.00		16.00				15.50		15.50		18.50	
		12	2467		16.00		16.00				15.50		15.50		18.50	
		13	2472		16.00		16.00				15.50		15.50		18.50	
	802.11be-EHT40 MCS0	3	2422		16.00		16.00				15.50		15.50		18.50	
		6	2437		16.00		16.00				15.50		15.50		18.50	
		9	2452		16.00		16.00				15.50		15.50		18.50	
		10	2457		16.00		16.00				15.50		15.50		18.50	
		11	2462		16.00		16.00				15.50		15.50		18.50	



	Mode	Channel	Frequency (MHz)	Aux Ant			Main Ant			Aux+Main Ant (Aux)		Aux+Main Ant (Main)		Aux+Main Ant		
				Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.2GHz WLAN	802.11a 6Mbps	36	5180	Not Required	21.00	Not Required	Not Required	21.00	Not Required	Not Required	18.50	Not Required	18.50	Not Required	21.50	Not Required
		40	5200		21.50			21.50			18.50		18.50		21.50	
		44	5220		21.50			21.50			18.50		18.50		21.50	
		48	5240		21.50			21.50			18.50		18.50		21.50	
	802.11n-HT20 MCS0	36	5180		20.00			20.00			19.50		19.50		22.50	
		40	5200		21.50			21.50			19.50		19.50		22.50	
		44	5220		21.50			21.50			19.50		19.50		22.50	
		48	5240		21.50			21.50			19.50		19.50		22.50	
	802.11n-HT40 MCS0	38	5190		19.00			19.00			17.00		17.00		20.00	
		46	5230		21.00			21.00			19.50		19.50		22.50	
	802.11ac-VHT20 MCS0	36	5180		20.00			20.00			19.50		19.50		22.50	
		40	5200		21.50			21.50			19.50		19.50		22.50	
		44	5220		21.50			21.50			19.50		19.50		22.50	
		48	5240		21.50			21.50			19.50		19.50		22.50	
	802.11ac-VHT40 MCS0	38	5190		19.00			19.00			17.00		17.00		20.00	
		46	5230		21.00			21.00			19.50		19.50		22.50	
	802.11ac-VHT80 MCS0	42	5210		17.50			17.50			14.50		14.50		17.50	
		42	5210		17.50			17.50			14.50		14.50		17.50	
	802.11ax-HE20 MCS0	36	5180		20.00			20.00			19.50		19.50		22.50	
		40	5200		21.50			21.50			19.50		19.50		22.50	
		44	5220		21.50			21.50			19.50		19.50		22.50	
		48	5240		21.50			21.50			19.50		19.50		22.50	
	802.11ax-HE40 MCS0	38	5190		19.00			19.00			17.00		17.00		20.00	
		46	5230		21.00			21.00			19.50		19.50		22.50	
	802.11ax-HE80 MCS0	42	5210		17.50			17.50			14.50		14.50		17.50	
		42	5210		17.50			17.50			14.50		14.50		17.50	
	802.11be-EHT20 MCS0	36	5180		17.50			17.50			14.50		14.50		17.50	
		40	5200		17.50			17.50			14.50		14.50		17.50	
		44	5220		17.50			17.50			14.50		14.50		17.50	
		48	5240		17.50			17.50			14.50		14.50		17.50	
	802.11be-EHT40 MCS0	38	5190		17.50			17.50			14.50		14.50		17.50	
		46	5230		17.50			17.50			14.50		14.50		17.50	
	802.11be-EHT80 MCS0	42	5210		17.50			17.50			14.50		14.50		17.50	
		42	5210		17.50			17.50			14.50		14.50		17.50	



	Mode	Channel	Frequency (MHz)	Aux Ant			Main Ant			Aux+Main Ant (Aux)		Aux+Main Ant (Main)		Aux+Main Ant		
				Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.3GHz WLAN	802.11a 6Mbps	52	5260	21.10	21.50	94.09	21.20	21.50	94.05	Not Required	18.50	Not Required	18.50	Not Required	21.50	Not Required
		56	5280	21.00	21.50		21.20	21.50			18.50		18.50		21.50	
		60	5300	21.20	21.50		21.10	21.50			18.50		18.50		21.50	
		64	5320	20.70	21.00		20.60	21.00			18.50		18.50		21.50	
	802.11n-HT20 MCS0	52	5260	Not Required	21.50	Not Required	21.50	Not Required	19.50		19.50		22.50			
		56	5280		21.50		21.50		19.50		19.50		22.50			
		60	5300		21.50		21.50		19.50		19.50		22.50			
		64	5320		20.00		20.00		19.50		19.50		22.50			
	802.11n-HT40 MCS0	54	5270		21.00		21.00		19.50		19.50		22.50			
		62	5310		18.50		18.50		16.50		16.50		19.50			
	802.11ac-VHT20 MCS0	52	5260		21.50		21.50		19.50		19.50		22.50			
		56	5280		21.50		21.50		19.50		19.50		22.50			
		60	5300		21.50		21.50		19.50		19.50		22.50			
		64	5320		20.00		20.00		19.50		19.50		22.50			
	802.11ac-VHT40 MCS0	54	5270		21.00		21.00		19.50		19.50		22.50			
		62	5310		18.50		18.50		16.50		16.50		19.50			
	802.11ac-VHT80 MCS0	58	5290		18.00		18.00		15.00		15.00		18.00			
	802.11ac-VHT160 MCS0	50	5250		15.00		15.00		13.50		13.5		16.50			
	802.11ax-HE20 MCS0	52	5260		21.50		21.50		19.50		19.50		22.50			
		56	5280		21.50		21.50		19.50		19.50		22.50			
		60	5300		21.50		21.50		19.50		19.50		22.50			
		64	5320		20.00		20.00		19.50		19.50		22.50			
	802.11ax-HE40 MCS0	54	5270		21.00		21.00		19.50		19.50		22.50			
		62	5310		18.50		18.50		16.50		16.50		19.50			
	802.11ax-HE80 MCS0	58	5290		18.00		18.00		15.00		15.00		18.00			
	802.11ax-HE160 MCS0	50	5250		15.00		15.00		13.50		13.5		16.50			



	Mode	Channel	Frequency (MHz)	Aux Ant			Main Ant			Aux+Main Ant (Aux)		Aux+Main Ant (Main)		Aux+Main Ant		
				Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.5GHz WLAN	802.11a 6Mbps	100	5500	Not Required	20.50	Not Required	Not Required	20.50	Not Required	Not Required	18.50	Not Required	18.50	Not Required	21.50	Not Required
		116	5580		21.50			21.50			18.50		18.50		21.50	
		124	5620		21.50			21.50			18.50		18.50		21.50	
		132	5660		21.50			21.50			18.50		18.50		21.50	
		144	5720		21.00			21.00			18.50		18.50		21.50	
	802.11n-HT20 MCS0	100	5500	Not Required	19.50	Not Required	Not Required	19.50	Not Required	Not Required	19.50	Not Required	19.50	Not Required	22.50	Not Required
		116	5580		21.50			21.50			19.50		19.50		22.50	
		124	5620		21.50			21.50			19.50		19.50		22.50	
		132	5660		21.50			21.50			19.50		19.50		22.50	
		144	5720		21.50			21.50			19.50		19.50		22.50	
	802.11n-HT40 MCS0	102	5510	Not Required	17.60	87.84	Not Required	17.50	88.44	Not Required	16.50	Not Required	16.50	Not Required	19.50	Not Required
		110	5550		20.70			20.90			19.00		19.00		22.00	
		126	5630		20.70			20.70			19.00		19.00		22.00	
		134	5670		19.70			19.80			18.00		18.00		21.00	
		142	5710		21.10			21.10			19.50		19.50		22.50	
	802.11ac-VHT20 MCS0	100	5500	Not Required	19.50	Not Required	Not Required	19.50	Not Required	Not Required	19.50	Not Required	19.50	Not Required	22.50	Not Required
		116	5580		21.50			21.50			19.50		19.50		22.50	
		124	5620		21.50			21.50			19.50		19.50		22.50	
		132	5660		21.50			21.50			19.50		19.50		22.50	
		144	5720		21.50			21.50			19.50		19.50		22.50	
	802.11ac-VHT40 MCS0	102	5510	Not Required	18.00	Not Required	Not Required	18.00	Not Required	Not Required	16.50	Not Required	16.50	Not Required	19.50	Not Required
		110	5550		21.00			21.00			19.00		19.00		22.00	
		126	5630		21.00			21.00			18.00		18.00		21.00	
		134	5670		20.00			20.00			19.50		19.50		22.50	
		142	5710		21.50			21.50			19.50		19.50		22.50	
	802.11ac-VHT80 MCS0	106	5530	Not Required	18.00	Not Required	Not Required	18.00	Not Required	Not Required	15.50	Not Required	15.50	Not Required	18.50	Not Required
		122	5610		20.50			20.50			18.00		18.00		21.00	
		138	5690		21.00			21.00			19.00		19.00		22.00	
	802.11ac-VHT160 MCS0	114	5570	Not Required	16.00	Not Required	Not Required	16.00	Not Required	Not Required	14.00	Not Required	14.00	Not Required	17.00	Not Required
	802.11ax-HE20 MCS0	100	5500		19.50			19.50			19.50		19.50		22.50	
		116	5580		21.50			21.50			19.50		19.50		22.50	
		124	5620		21.50			21.50			19.50		19.50		22.50	
		132	5660		21.50			21.50			19.50		19.50		22.50	
	802.11ax-HE40 MCS0	102	5510		18.00			18.00			16.50		16.50		19.50	
		110	5550		21.00			21.00			19.00		19.00		22.00	
		126	5630		21.00			21.00			19.00		19.00		22.00	
		134	5670		20.00			20.00			18.00		18.00		21.00	
		142	5710		21.50			21.50			19.50		19.50		22.50	
	802.11ax-HE80 MCS0	106	5530	Not Required	18.00	Not Required	Not Required	18.00	Not Required	Not Required	15.50	Not Required	15.50	Not Required	18.50	Not Required
		122	5610		20.50			20.50			18.00		18.00		21.00	
		138	5690		21.00			21.00			19.00		19.00		22.00	
	802.11ax-HE160 MCS0	114	5570		16.00			16.00			14.00		14.00		17.00	



	Mode	Channel	Frequency (MHz)	Aux Ant			Main Ant			Aux+Main Ant (Aux)		Aux+Main Ant (Main)		Aux+Main Ant			
				Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %	
5.8GHz WLAN	802.11a 6Mbps	149	5745	22.10	22.50	94.09	22.40	22.50	94.05	Not Required	19.50	Not Required	19.50	Not Required	22.50	Not Required	
		157	5785	22.20	22.50		22.20	22.50			19.50		19.50		22.50		
		165	5825	22.20	22.50		22.00	22.50			19.50		19.50		22.50		
	802.11n-HT20 MCS0	149	5745	Not Required	22.50	Not Required	Not Required	22.50	Not Required		19.50		19.50		22.50		
		157	5785		22.50			22.50			19.50		19.50		22.50		
		165	5825		22.50			22.50			19.50		19.50		22.50		
	802.11n-HT40 MCS0	151	5755		21.50			21.50			19.50		19.50		22.50		
		159	5795		21.50			21.50			19.50		19.50		22.50		
	802.11ac-VHT20 MCS0	149	5745		22.50			22.50			19.50		19.50		22.50		
		157	5785		22.50			22.50			19.50		19.50		22.50		
		165	5825		22.50			22.50			19.50		19.50		22.50		
	802.11ac-VHT40 MCS0	151	5755		21.50			21.50			19.50		19.50		22.50		
		159	5795		21.50			21.50			19.50		19.50		22.50		
	802.11ac-VHT80 MCS0	155	5775		20.50			20.50			18.50		18.50		21.50		
		149	5745		22.50			22.50			19.50		19.50		22.50		
		157	5785		22.50			22.50			19.50		19.50		22.50		
	802.11ax-HE20 MCS0	157	5785		22.50			22.50			19.50		19.50		22.50		
		165	5825		22.50			22.50			19.50		19.50		22.50		
		151	5755		21.50			21.50			19.50		19.50		22.50		
	802.11ax-HE40 MCS0	159	5795		21.50			21.50			19.50		19.50		22.50		
		165	5825		22.50			22.50			19.50		19.50		22.50		
	802.11ax-HE80 MCS0	155	5775		20.50			20.50			18.50		18.50		21.50		
	802.11be-EHT20 MCS0	149	5745		22.50			22.50			19.50		19.50		22.50		
		157	5785		22.50			22.50			19.50		19.50		22.50		
		165	5825		22.50			22.50			19.50		19.50		22.50		
	802.11be-EHT40 MCS0	151	5755		21.50			21.50			19.50		19.50		22.50		
		159	5795		21.50			21.50			19.50		19.50		22.50		
	802.11be-EHT80 MCS0	155	5775		20.50			20.50			18.50		18.50		21.50		



	Mode	Channel	Frequency (MHz)	Aux Ant			Main Ant			Aux+Main Ant (Aux)		Aux+Main Ant (Main)		Aux+Main Ant		
				Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.9GHz WLAN	802.11a 6Mbps	169	5845	Not Required	20.00	Not Required	Not Required	20.00	Not Required	Not Required	14.00	Not Required	14.00	Not Required	17.00	Not Required
		173	5865		20.00			20.00			14.00		14.00		17.00	
		177	5885		20.00			20.00			14.00		14.00		17.00	
	802.11n-HT20 MCS0	169	5845		20.00			20.00			17.00		17.00		20.00	
		173	5865		20.00			20.00			17.00		17.00		20.00	
		177	5885		18.00			18.00			17.00		17.00		20.00	
	802.11ac-VHT20 MCS0	169	5845		20.00			20.00			17.00		17.00		20.00	
		173	5865		20.00			20.00			17.00		17.00		20.00	
		177	5885		18.00			18.00			17.00		17.00		20.00	
	802.11ac-VHT80 MCS0	171	5855	20.80	21.00	87.86	20.60	21.00	87.14		19.50		19.50		22.50	
	802.11ac-VHT160 MCS0	163	5815	Not Required	18.50	Not Required	Not Required	18.50	Not Required	Not Required	18.50	Not Required	18.50	Not Required	21.50	Not Required
	802.11ax-HE20 MCS0	169	5845		20.00			20.00			17.00		17.00		20.00	
		173	5865		20.00			20.00			17.00		17.00		20.00	
		177	5885		18.00			18.00			17.00		17.00		20.00	
	802.11ax-HE80 MCS0	171	5855		21.00			21.00			19.50		19.50		22.50	
	802.11ax-HE160 MCS0	163	5815		18.50			18.50			18.50		18.50		21.50	
	802.11be-EHT20 MCS0	169	5845		20.00			20.00			17.00		17.00		20.00	
		173	5865		20.00			20.00			17.00		17.00		20.00	
		177	5885		18.00			18.00			17.00		17.00		20.00	
	802.11be-EHT80 MCS0	171	5855		21.00			21.00			19.50		19.50		22.50	
	802.11be-EHT160 MCS0	163	5815		18.50			18.50			18.50		18.50		21.50	



				Aux Ant			Main Ant			Aux+Main Ant (Aux)		Aux+Main Ant (Main)		Aux+Main Ant							
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %					
WiFi 6E LPI	802.11a 6Mbps	1	5955	Not Required	7.00	Not Required	Not Required	7.00	Not Required	Not Required	1.00	Not Required	1.00	Not Required	4.00	Not Required					
		57	6235		7.00			7.00			1.00		1.00		4.00						
		113	6515		7.00			7.00			1.50		1.50		4.50						
		173	6815		7.00			7.00			1.00		1.00		4.00						
		233	7115		7.50			7.50			1.50		1.50		4.50						
	802.11ax-HE20 MCS0	1	5955		7.00			7.00			3.50		3.50		6.50						
		57	6235		7.00			7.00			3.50		3.50		6.50						
		113	6515		7.50			7.50			4.00		4.00		7.00						
		173	6815		7.00			7.00			3.50		3.50		6.50						
		233	7115		7.50			7.50			4.50		4.50		7.50						
	802.11ax-HE40 MCS0	3	5965		9.50			9.50			6.50		6.50		9.50						
		59	6245		9.50			9.50			6.50		6.50		9.50						
		107	6485		10.00			10.00			7.00		7.00		10.00						
		171	6805		9.50			9.50			6.50		6.50		9.50						
		227	7085		10.00			10.00			7.00		7.00		10.00						
	802.11ax-HE80 MCS0	7	5985		12.50			12.50			9.50		9.50		12.50						
		71	6305		12.50			12.50			9.50		9.50		12.50						
		119	6545		12.50			12.50			9.50		9.50		12.50						
		167	6785		12.50			12.50			9.50		9.50		12.50						
		215	7025		13.00			13.00			10.00		10.00		13.00						
	802.11ax-HE160 MCS0	15	6025	14.80	15.00	85.48	14.90	15.00	85.48	Not Required	12.00	Not Required	12.00	Not Required	15.00	Not Required					
		47	6185	14.70	15.00		14.70	15.00			12.00		12.00		15.00						
		111	6505	14.90	15.00		14.80	15.00			12.00		12.00		15.00						
		143	6665	14.60	15.00		14.80	15.00			12.00		12.00		15.00						
		207	6985	14.70	15.00		14.80	15.00			12.00		12.00		15.00						
	802.11be-EHT20 MCS0	1	5955	Not Required	7.00	Not Required	Not Required	7.00	Not Required		3.50		3.50		6.50						
		57	6235		7.00			7.00			3.50		3.50		6.50						
		113	6515		7.50			7.50			4.00		4.00		7.00						
		173	6815		7.00			7.00			3.50		3.50		6.50						
		233	7115		7.50			7.50			4.50		4.50		7.50						
	802.11be-EHT40 MCS0	3	5965		9.50			9.50			6.50		6.50		9.50						
		59	6245		9.50			9.50			6.50		6.50		9.50						
		107	6485		10.00			10.00			7.00		7.00		10.00						
		171	6805		9.50			9.50			6.50		6.50		9.50						
		227	7085		10.00			10.00			7.00		7.00		10.00						
	802.11be-EHT80 MCS0	7	5985		12.50			12.50			Not Required		12.50		Not Required		9.50	9.50	12.50		
		71	6305		12.50			12.50					9.50				9.50	12.50			
		119	6545		12.50			12.50					9.50				9.50	12.50			
		167	6785		12.50			12.50					9.50				9.50	12.50			
		215	7025		13.00			13.00					10.00				10.00	13.00			
	802.11be-EHT160 MCS0	15	6025		15.00			15.00					12.00				12.00	15.00			
		47	6185		15.00			15.00					12.00				12.00	15.00			
		111	6505		15.00			15.00					12.00				12.00	15.00			
		143	6665		15.00			15.00					12.00				12.00	15.00			
		207	6985		15.00			15.00					12.00				12.00	15.00			



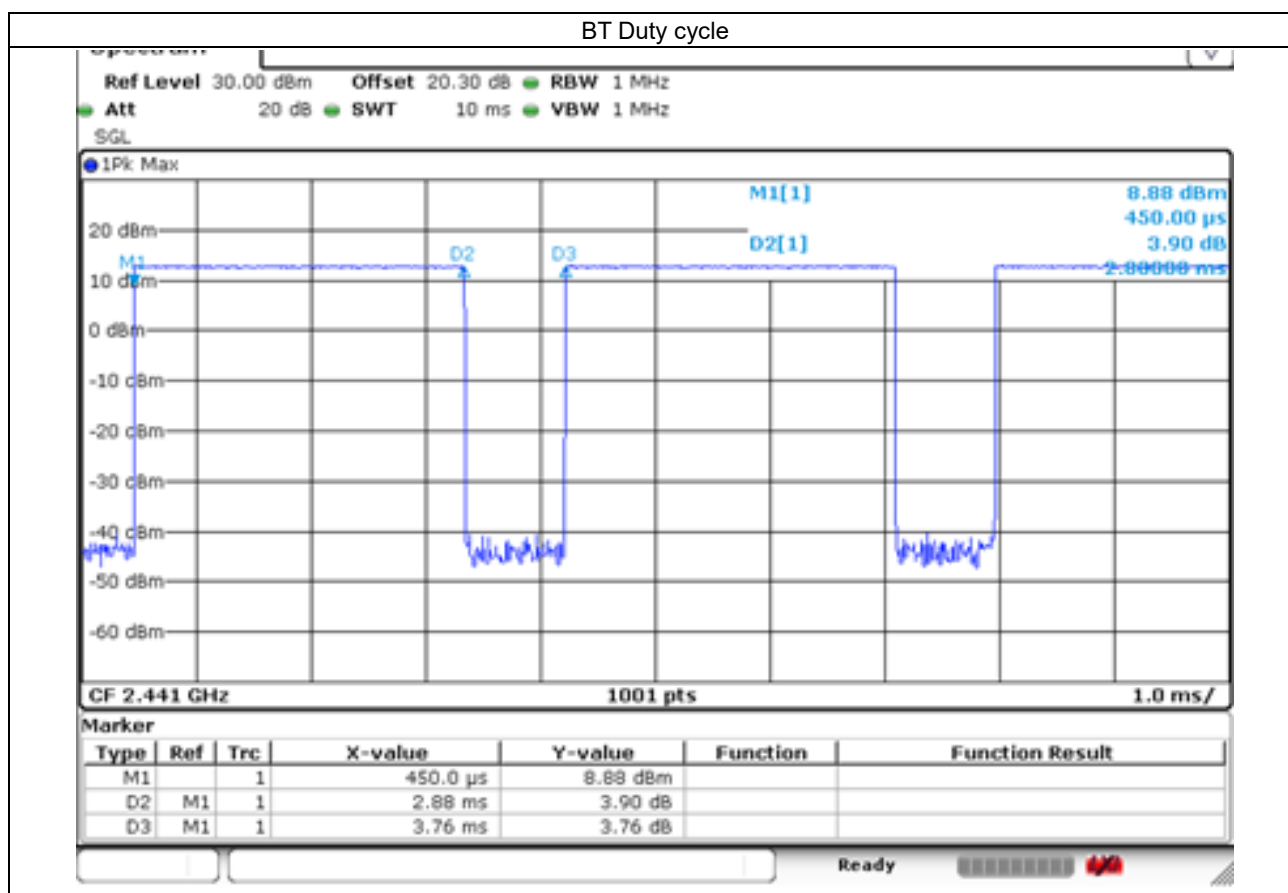
				Aux Ant			Main Ant			Aux+Main Ant (Aux)		Aux+Main Ant (Main)		Aux+Main Ant		
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
WiFi 6E SP	802.11a 6Mbps	1	5955		15.00			15.00			12.00		12.00		15.00	
		57	6235		15.00			15.00			12.00		12.00		15.00	
		173	6815		15.00			15.00			12.00		12.00		15.00	
	802.11ax-HE20 MCS0	1	5955	Not Required	15.00	Not Required	Not Required	15.00	Not Required	Not Required	12.00	Not Required	12.00	Not Required	15.00	Not Required
		57	6235		15.00			15.00			12.00		12.00		15.00	
		173	6815		15.00			15.00			12.00		12.00		15.00	
	802.11ax-HE40 MCS0	3	5965	Not Required	15.00	Not Required	Not Required	15.00	Not Required	Not Required	12.00	Not Required	12.00	Not Required	15.00	Not Required
		59	6245		15.00			15.00			12.00		12.00		15.00	
		171	6805		15.00			15.00			12.00		12.00		15.00	
	802.11ax-HE80 MCS0	7	5985	Not Required	15.00	Not Required	Not Required	15.00	Not Required	Not Required	12.00	Not Required	12.00	Not Required	15.00	Not Required
		71	6305		15.00			15.00			12.00		12.00		15.00	
		167	6785		15.00			15.00			12.00		12.00		15.00	
	802.11ax-HE160 MCS0	15	6025	14.80	15.00	85.48	14.90	15.00	85.48	Not Required	12.00	Not Required	12.00	Not Required	15.00	Not Required
		47	6185	14.70	15.00		14.70	15.00			12.00		12.00		15.00	
		143	6665	14.60	15.00		14.80	15.00			12.00		12.00		15.00	
	802.11be-EHT20 MCS0	1	5955	Not Required	15.00	Not Required	Not Required	15.00	Not Required	Not Required	12.00	Not Required	12.00	Not Required	15.00	Not Required
		57	6235		15.00			15.00			12.00		12.00		15.00	
		173	6815		15.00			15.00			12.00		12.00		15.00	
	802.11be-EHT40 MCS0	3	5965	Not Required	15.00	Not Required	Not Required	15.00	Not Required	Not Required	12.00	Not Required	12.00	Not Required	15.00	Not Required
		59	6245		15.00			15.00			12.00		12.00		15.00	
		171	6805		15.00			15.00			12.00		12.00		15.00	
	802.11be-EHT80 MCS0	7	5985	Not Required	15.00	Not Required	Not Required	15.00	Not Required	Not Required	12.00	Not Required	12.00	Not Required	15.00	Not Required
		71	6305		15.00			15.00			12.00		12.00		15.00	
		167	6785		15.00			15.00			12.00		12.00		15.00	
	802.11be-EHT160 MCS0	15	6025	Not Required	15.00	Not Required	Not Required	15.00	Not Required	Not Required	12.00	Not Required	12.00	Not Required	15.00	Not Required
		47	6185		15.00			15.00			12.00		12.00		15.00	
		143	6665		15.00			15.00			12.00		12.00		15.00	

<2.4GHz Bluetooth>

				Aux Ant		
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
Bluetooth	BR / EDR 1Mbps	0	2402	10.80	11.50	76.60
		39	2441	10.50	11.50	
		78	2480	10.50	11.50	
	BR / EDR 2Mbps	0	2402	Not Required	8.50	Not Required
		39	2441		8.50	
		78	2480		8.50	
	BR / EDR 3Mbps	0	2402		8.50	
		39	2441		8.50	
		78	2480		8.50	
	LE 1Mbps	0	2402		11.50	
		19	2440		11.50	
		39	2480		11.50	
	LE 2Mbps	0	2402		11.50	
		19	2440		11.50	
		39	2480		11.50	

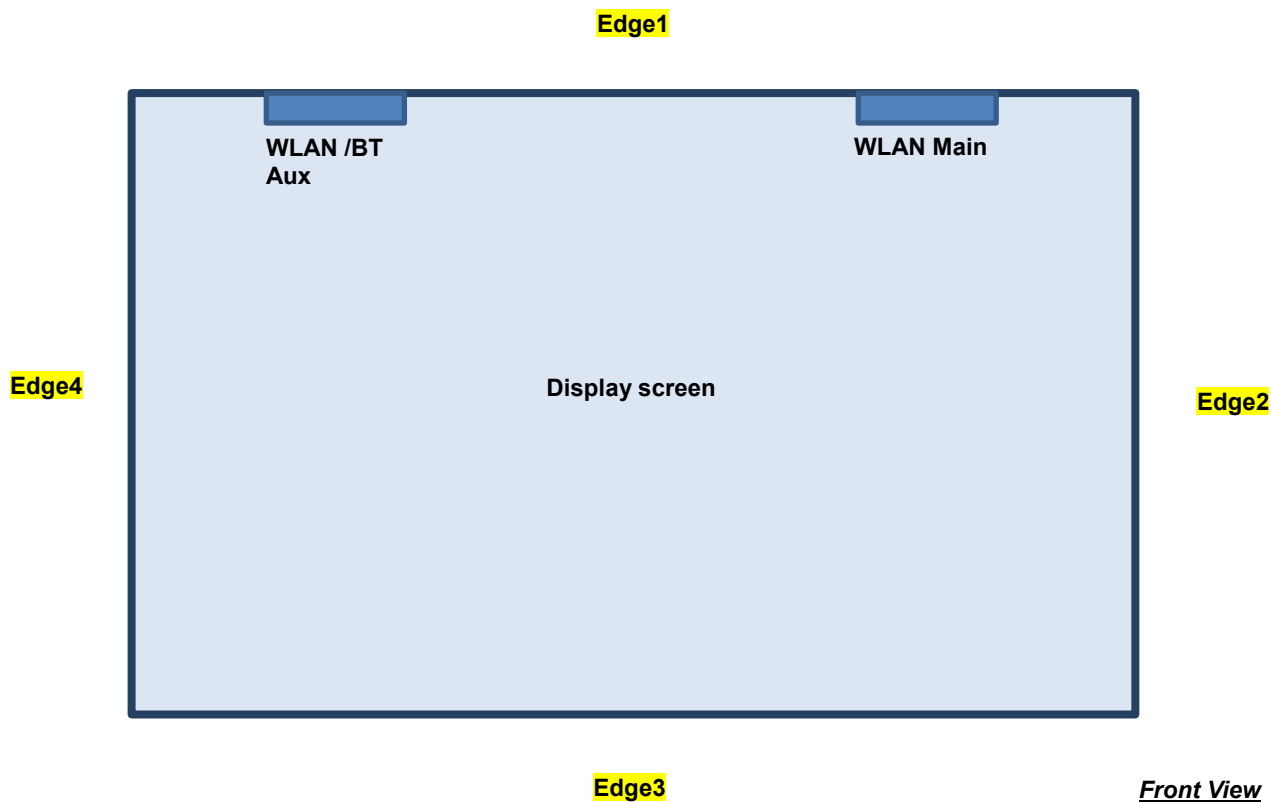
General Note:

- For 2.4GHz Bluetooth SAR testing was selected 1Mbps due to its highest average power and duty cycle is 76.6% considered in SAR testing, and the duty cycle would be scaled to theoretical 83.3% in reported SAR calculation.



12. Antenna Location

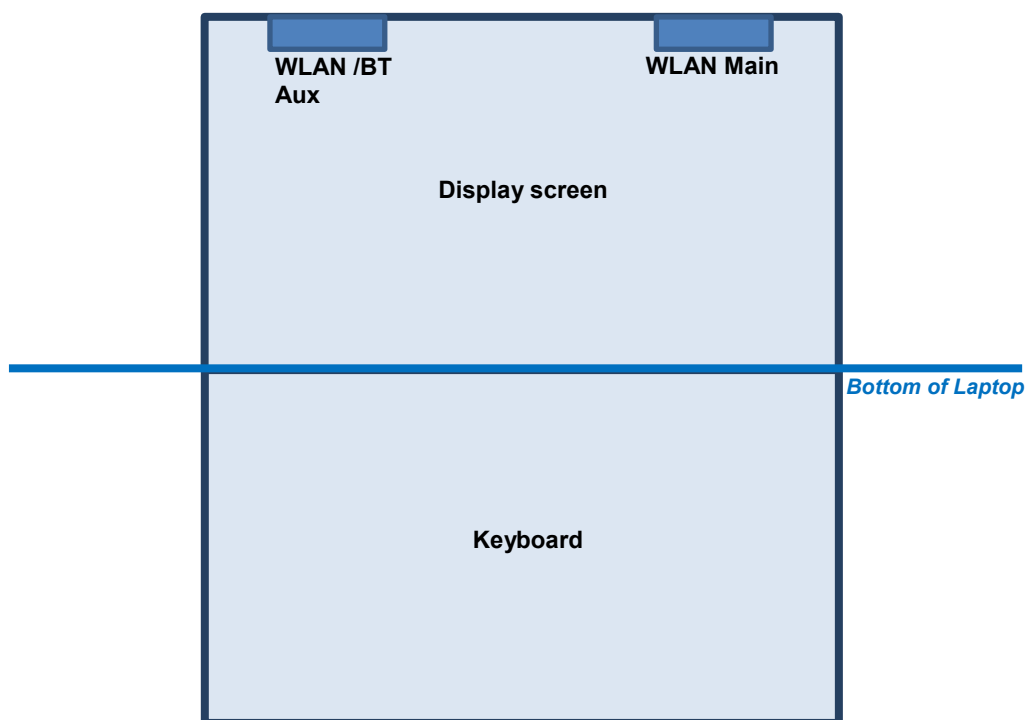
<Tablet Mode>



The separation distance for antenna to edge :

Antenna	To Edge1 (mm)	To Edge2 (mm)	To Edge3 (mm)	To Edge4 (mm)
WLAN/BT Aux Antenna	2.4	244	247.6	35.8
WLAN Main Antenna	2.4	35.8	247.6	244

<Laptop Mode>



The separation distance for antenna to edge :

Antenna	To Bottom of Laptop (mm)
WLAN/BT Aux Antenna	247.6
WLAN Main Antenna	247.6

<SAR test exclusion table>
General Note:

- The below table, when the distance is < 50 mm exclusion threshold is "Ratio", when the distance is > 50 mm exclusion threshold is "mW"
- Maximum power is the source-based time-average power and represents the maximum RF output power among production units
- Per KDB 447498 D01v06, for larger devices, the test separation distance of adjacent edge configuration is determined by the closest separation between the antenna and the user.
- Per KDB 447498 D01v06, standalone SAR test exclusion threshold is applied; If the test separation distance is < 5mm, 5mm is used to determine SAR exclusion threshold.
- Per KDB 447498 D01v06, the 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at *test separation distances* ≤ 50 mm are determined by:

$$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR}$$
 - f(GHz) is the RF channel transmit frequency in GHz
 - Power and distance are rounded to the nearest mW and mm before calculation
 - The result is rounded to one decimal place for comparison
- Per KDB 447498 D01v06, at 100 MHz to 6 GHz and for *test separation distances* > 50 mm, the SAR test exclusion threshold is determined according to the following
 - [Threshold at 50 mm in step 1) + (test separation distance - 50 mm) · (f(MHz)/150)] mW, at 100 MHz to 1500 MHz
 - [Threshold at 50 mm in step 1) + (test separation distance - 50 mm) · 10] mW at > 1500 MHz and ≤ 6 GHz

Exposure Position	Wireless Interface	BT Aux	2.4GHz WLAN Aux	2.4GHz WLAN Main	5GHz WLAN Aux	5GHz WLAN Main	6GHz WLAN Aux	6GHz WLAN Main
	Calculated Frequency (MHz)	2480	2472	2472	5825	5825	7115	7115
	Maximum power (dBm)	11.5	22.5	22.5	22.5	22.5	15.0	15.0
	Maximum rated power(mW)	14.13	177.83	177.83	177.83	177.83	31.62	31.62
	Separation distance(mm)	13.6	13.6	13.6	13.6	13.6	13.6	13.6
Bottom Face	exclusion threshold	1.6	20.6	20.6	5.6	5.6	6.2	6.2
	Testing required?	No	Yes	Yes	Yes	Yes	Yes	Yes
	Separation distance(mm)	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Edge 1	exclusion threshold	4.5	55.9	55.9	15.3	15.3	16.9	16.9
	Testing required?	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Separation distance(mm)	244.0	244.0	35.8	244.0	35.8	244.0	35.8
Edge 2	exclusion threshold	2035.0	2035.0	7.8	2002.0	2.1	1996.0	2.4
	Testing required?	No	No	Yes	No	No	No	No
	Separation distance(mm)	247.6	247.6	247.6	247.6	247.6	247.6	247.6
Edge 3	exclusion threshold	2071.0	2071.0	2071.0	2038.0	2038.0	2032.0	2032.0
	Testing required?	No	No	No	No	No	No	No
	Separation distance(mm)	35.8	35.8	244.0	35.8	244.0	35.8	244.0
Edge 4	exclusion threshold	0.6	7.8	2035.0	2.1	2002.0	2.4	1996.0
	Testing required?	No	Yes	No	No	No	No	No
	Separation distance(mm)	247.6	247.6	247.6	247.6	247.6	247.6	247.6
Bottom of Laptop	exclusion threshold	2071.0	2071.0	2071.0	2038.0	2038.0	2032.0	2032.0
	Testing required?	No	No	No	No	No	No	No
	Separation distance(mm)	247.6	247.6	247.6	247.6	247.6	247.6	247.6

13. SAR Test Results

General Note:

1. Per KDB 447498 D01v06, the reported SAR is the measured SAR value adjusted for maximum tune-up tolerance.
 - a. Tune-up scaling Factor = tune-up limit power (mW) / EUT RF power (mW), where tune-up limit is the maximum rated power among all production units.
 - b. For SAR testing of WLAN signal with non-100% duty cycle, the measured SAR is scaled-up by the duty cycle scaling factor which is equal to "1/(duty cycle)"
 - c. For WLAN/Bluetooth: Reported SAR(W/kg)= Measured SAR(W/kg)* Duty Cycle scaling factor * Tune-up scaling factor
2. Per KDB 447498 D01v06, for each exposure position, testing of other required channels within the operating mode of a frequency band is not required when the *reported* 1-g or 10-g SAR for the mid-band or highest output power channel is:
 - ≤ 0.8 W/kg or 2.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≤ 100 MHz
 - ≤ 0.6 W/kg or 1.5 W/kg, for 1-g or 10-g respectively, when the transmission band is between 100 MHz and 200 MHz
 - ≤ 0.4 W/kg or 1.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≥ 200 MHz
3. Per KDB 865664 D01v01r04, for each frequency band, repeated SAR measurement is required only when the measured SAR is ≥ 0.8 W/kg.

WLAN Note:

1. Per KDB 248227 D01v02r02, for 2.4GHz 802.11g/n SAR testing is not required when the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg.
2. Per KDB 248227 D01v02r02, WLAN5.2GHz SAR testing is not required when the WLAN5.3GHz band highest reported SAR for a test configuration is ≤ 1.2 W/kg, SAR is not required for WLAN5.2GHz band.
3. When the reported SAR of the test position is > 0.4 W/kg, SAR is repeated for the 802.11 transmission mode configuration tested in the initial test position to measure the subsequent next closet/smallest test separation distance and maximum coupling test position on the highest maximum output power channel, until the report SAR is ≤ 0.8 W/kg or all required test position are tested.
4. For all positions / configurations, when the reported SAR is > 0.8 W/kg, SAR is measured for these test positions / configurations on the subsequent next highest measured output power channel(s) until the reported SAR is ≤ 1.2 W/kg or all required channels are tested.
5. For WLAN SAR testing was performed on single antenna RF power in SISO mode is larger or equal to the single antenna RF power in MIMO mode, and for RF exposure assessment of MIMO mode simultaneous transmission exclusion analysis was performed with SAR test results of each antenna in SISO mode.
6. Per KDB 248227 D01v02r02, the simultaneous SAR provisions in KDB publication 447498 should be applied to determine simultaneous transmission SAR test exclusion for WiFi MIMO. If the sum of 1g single transmission chain SAR measurements is < 1.6 W/kg and SAR peak to location ratio ≤ 0.04 , no additional SAR measurements for MIMO.
7. During SAR testing the WLAN transmission was verified using a spectrum analyzer.
8. Refer to tune-up procedure the channel 13 power is lower than others channel, therefore the SAR consideration is not necessary.

**WLAN PD Note:**

1. The WiFi 6E PD was performed according 2020 TCB workshop RF Exposure 5G RFX Policies Interim Procedures.
2. First, evaluate SAR using 6-7 GHz parameters per IEC/IEEE 62209-1528:2020 and using highest SAR test configurations evaluate incident PD using the mmw near-field probe and total-field/power-density reconstruction method (2 mm closest meas. plane).
3. Per Interim Procedures. The power density results were scaled according to IEC 62479:2010 for the portion of the measurement uncertainty > 30%. Total expanded uncertainty of 2.68 dB (85.4%) was used to determine the psPD measurement scaling factor
4. The manufacturer has confirmed that the devices tested have the same physical, mechanical and thermal characteristics and are within operational tolerances expected for production units.
5. The WiFi 6E RF Exposure results are used for simultaneous transmission analysis with the other transmitters and total exposure ratio, the analysis can be found in this report section 14.
6. Absorbed power density (APD) using a 4cm² averaging area is reported based on SAR measurements.
7. Power density was calculated by repeated E-field measurements on two measurement planes separated by $\lambda/4$.
8. The device was configured to transmit continuously at the required data rate, channel bandwidth and signal modulation, using the highest transmission duty factor supported by the test mode tools.
9. The measurement procedure consists of measuring the PD_{inc} at two different distances: 2 mm (compliance distance) and $\lambda/5$. The grid extents should be large enough to fully capture the transmitted energy. The grid step should be fine enough to demonstrate that the integrated Power Density iPD_n fulfill the criterion described below. Since iPD ratio between the two distances is ≥ -1 dB, the grid step (0.0625) was sufficient for determining compliance at d=2mm.

$$10 \cdot \log_{10} \frac{iPD_n(2mm)}{iPD_n(\lambda/5)} \geq -1$$

**13.1 Body SAR****<WLAN SAR>**

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Configuration	Ch.	Freq. (MHz)	Antenna Vendor	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
01	WLAN2.4GHz	802.11b 1Mbps	Bottom Face	0mm	Aux	Tablet	11	2462	Vendor 2	18.40	18.50	1.023	98.59	1.014	-0.19	0.065	0.067
	WLAN2.4GHz	802.11b 1Mbps	Edge 1	0mm	Aux	Tablet	11	2462	Vendor 2	18.40	18.50	1.023	98.59	1.014	0	0.799	0.829
	WLAN2.4GHz	802.11b 1Mbps	Edge 1	0mm	Aux	Tablet	1	2412	Vendor 2	18.20	18.50	1.072	98.59	1.014	0.02	0.735	0.799
	WLAN2.4GHz	802.11b 1Mbps	Edge 1	0mm	Aux	Tablet	6	2437	Vendor 2	18.10	18.50	1.096	98.59	1.014	0.08	0.728	0.809
	WLAN2.4GHz	802.11b 1Mbps	Edge 1	0mm	Aux	Tablet	12	2467	Vendor 2	18.40	18.50	1.023	98.59	1.014	-0.13	0.618	0.641
	WLAN2.4GHz	802.11b 1Mbps	Edge 4	0mm	Aux	Tablet	11	2462	Vendor 2	18.40	18.50	1.023	98.59	1.014	0	0.104	0.108
	WLAN2.4GHz	802.11b 1Mbps	Edge 1	0mm	Aux	Tablet	11	2462	Vendor 1	18.40	18.50	1.023	98.59	1.014	0.01	0.766	0.795
	WLAN2.4GHz	802.11b 1Mbps	Edge 1	0mm	Aux	Tablet	11	2462	Vendor 3	18.40	18.50	1.023	98.59	1.014	0.18	0.767	0.796
	WLAN2.4GHz	802.11b 1Mbps	Bottom Face	0mm	Main	Tablet	6	2437	Vendor 2	18.40	18.50	1.023	98.59	1.014	-0.02	0.042	0.044
	WLAN2.4GHz	802.11b 1Mbps	Edge 1	0mm	Main	Tablet	6	2437	Vendor 2	18.40	18.50	1.023	98.59	1.014	0.01	0.373	0.387
	WLAN2.4GHz	802.11b 1Mbps	Edge 2	0mm	Main	Tablet	6	2437	Vendor 2	18.40	18.50	1.023	98.59	1.014	-0.07	0.143	0.148
	WLAN2.4GHz	802.11b 1Mbps	Edge 1	0mm	Main	Tablet	6	2437	Vendor 1	18.40	18.50	1.023	98.59	1.014	0.09	0.358	0.371
	WLAN2.4GHz	802.11b 1Mbps	Edge 1	0mm	Main	Tablet	6	2437	Vendor 3	18.40	18.50	1.023	98.59	1.014	-0.08	0.362	0.376
	WLAN5GHz	802.11ac-VHT160 MCS0	Bottom Face	0mm	Aux	Tablet	50	5250	Vendor 2	16.10	16.50	1.096	87.86	1.138	-0.04	0.081	0.101
02	WLAN5GHz	802.11ac-VHT160 MCS0	Edge 1	0mm	Aux	Tablet	50	5250	Vendor 2	16.10	16.50	1.096	87.86	1.138	-0.15	0.440	0.549
	WLAN5GHz	802.11ac-VHT160 MCS0	Edge1	0mm	Aux	Tablet	50	5250	Vendor 1	16.10	16.50	1.096	87.86	1.138	0.16	0.423	0.528
	WLAN5GHz	802.11ac-VHT160 MCS0	Edge1	0mm	Aux	Tablet	50	5250	Vendor 3	16.10	16.50	1.096	87.86	1.138	-0.06	0.420	0.524
	WLAN5GHz	802.11ac-VHT160 MCS0	Bottom Face	0mm	Main	Tablet	50	5250	Vendor 2	16.20	16.50	1.072	87.86	1.138	0.09	0.134	0.163
	WLAN5GHz	802.11ac-VHT160 MCS0	Edge 1	0mm	Main	Tablet	50	5250	Vendor 2	16.20	16.50	1.072	87.86	1.138	-0.16	0.392	0.478
	WLAN5GHz	802.11ac-VHT160 MCS0	Edge 1	0mm	Main	Tablet	50	5250	Vendor 1	16.20	16.50	1.072	87.86	1.138	0.03	0.383	0.467
	WLAN5GHz	802.11ac-VHT160 MCS0	Edge 1	0mm	Main	Tablet	50	5250	Vendor 3	16.20	16.50	1.072	87.86	1.138	0.08	0.381	0.465
	WLAN5GHz	802.11ac-VHT160 MCS0	Bottom Face	0mm	Aux	Tablet	114	5570	Vendor 2	16.20	16.50	1.072	87.86	1.138	0.18	0.199	0.243
	WLAN5GHz	802.11ac-VHT160 MCS0	Edge 1	0mm	Aux	Tablet	114	5570	Vendor 2	16.20	16.50	1.072	87.86	1.138	0.1	0.599	0.730
	WLAN5GHz	802.11ac-VHT160 MCS0	Edge 1	0mm	Aux	Tablet	114	5570	Vendor 1	16.20	16.50	1.072	87.86	1.138	-0.08	0.578	0.705
	WLAN5GHz	802.11ac-VHT160 MCS0	Edge 1	0mm	Aux	Tablet	114	5570	Vendor 3	16.20	16.50	1.072	87.86	1.138	0.08	0.569	0.694
	WLAN5GHz	802.11ac-VHT160 MCS0	Bottom Face	0mm	Main	Tablet	114	5570	Vendor 2	16.40	16.50	1.023	87.86	1.138	0.02	0.156	0.182
	WLAN5GHz	802.11ac-VHT160 MCS0	Edge 1	0mm	Main	Tablet	114	5570	Vendor 2	16.40	16.50	1.023	87.86	1.138	-0.14	0.387	0.451
	WLAN5GHz	802.11ac-VHT160 MCS0	Edge 1	25mm	Main	Tablet	114	5570	Vendor 1	16.40	16.50	1.023	87.86	1.138	-0.02	0.372	0.433
	WLAN5GHz	802.11ac-VHT160 MCS0	Edge 1	25mm	Main	Tablet	114	5570	Vendor 3	16.40	16.50	1.023	87.86	1.138	0	0.379	0.441
	WLAN5GHz	802.11ac-VHT80 MCS0	Bottom Face	0mm	Aux	Tablet	155	5775	Vendor 2	16.20	16.50	1.072	87.86	1.138	-0.12	0.124	0.151
	WLAN5GHz	802.11ac-VHT80 MCS0	Edge 1	0mm	Aux	Tablet	155	5775	Vendor 2	16.20	16.50	1.072	87.86	1.138	0.03	0.556	0.678
	WLAN5GHz	802.11ac-VHT80 MCS0	Edge 1	0mm	Aux	Tablet	155	5775	Vendor 1	16.20	16.50	1.072	87.86	1.138	-0.12	0.528	0.644
	WLAN5GHz	802.11ac-VHT80 MCS0	Edge 1	0mm	Aux	Tablet	155	5775	Vendor 3	16.20	16.50	1.072	87.86	1.138	-0.05	0.536	0.654
	WLAN5GHz	802.11ac-VHT80 MCS0	Bottom Face	0mm	Main	Tablet	155	5775	Vendor 2	16.40	16.50	1.023	87.86	1.138	0.13	0.132	0.154
	WLAN5GHz	802.11ac-VHT80 MCS0	Edge 1	0mm	Main	Tablet	155	5775	Vendor 2	16.40	16.50	1.023	87.86	1.138	0.09	0.393	0.458
	WLAN5GHz	802.11ac-VHT80 MCS0	Edge 1	25mm	Main	Tablet	155	5775	Vendor 1	16.40	16.50	1.023	94.05	1.063	0.03	0.360	0.392
	WLAN5GHz	802.11ac-VHT80 MCS0	Edge 1	25mm	Main	Tablet	155	5775	Vendor 3	16.40	16.50	1.023	94.05	1.063	0.02	0.356	0.387
	WLAN5GHz	802.11ac-VHT160 MCS0	Bottom Face	0mm	Aux	Tablet	163	5815	Vendor 2	16.30	16.50	1.047	87.86	1.138	-0.11	0.119	0.142
	WLAN5GHz	802.11ac-VHT160 MCS0	Edge 1	0mm	Aux	Tablet	163	5815	Vendor 2	16.30	16.50	1.047	87.86	1.138	0.09	0.579	0.690
	WLAN5GHz	802.11ac-VHT160 MCS0	Edge 2	0mm	Aux	Tablet	163	5815	Vendor 2	16.30	16.50	1.047	87.86	1.138	0.1	0.001	0.001
	WLAN5GHz	802.11ac-VHT160 MCS0	Edge 4	0mm	Aux	Tablet	163	5815	Vendor 2	16.30	16.50	1.047	87.86	1.138	-0.02	0.001	0.001
	WLAN5GHz	802.11ac-VHT160 MCS0	Edge 1	0mm	Aux	Tablet	163	5815	Vendor 1	16.30	16.50	1.047	87.86	1.138	0.14	0.558	0.665
	WLAN5GHz	802.11ac-VHT160 MCS0	Edge 1	0mm	Aux	Tablet	163	5815	Vendor 3	16.30	16.50	1.047	87.86	1.138	-0.09	0.569	0.678
	WLAN5GHz	802.11ac-VHT160 MCS0	Bottom Face	0mm	Main	Tablet	163	5815	Vendor 2	16.40	16.50	1.023	87.86	1.138	0.18	0.054	0.063
	WLAN5GHz	802.11ac-VHT160 MCS0	Edge 1	0mm	Main	Tablet	163	5815	Vendor 2	16.40	16.50	1.023	87.86	1.138	0.05	0.373	0.434
	WLAN5GHz	802.11ac-VHT160 MCS0	Edge 2	0mm	Main	Tablet	163	5815	Vendor 2	16.40	16.50	1.023	87.86	1.138	-0.18	0.001	0.001
	WLAN5GHz	802.11ac-VHT160 MCS0	Edge 4	0mm	Main	Tablet	163	5815	Vendor 2	16.40	16.50	1.023	87.86	1.138	-0.1	0.001	0.001
	WLAN5GHz	802.11ac-VHT160 MCS0	Edge 1	25mm	Main	Tablet	163	5815	Vendor 1	16.40	16.50	1.023	87.86	1.138	0.06	0.353	0.411
	WLAN5GHz	802.11ac-VHT160 MCS0	Edge 1	25mm	Main	Tablet	163	5815	Vendor 3	16.40	16.50	1.023	87.86	1.138	-0.12	0.366	0.426

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Configuration	Ch.	Freq. (MHz)	Antenna Vendor	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)	Measured APD (W/m ²)	Reported APD (W/m ²)
	WLAN6GHz	802.11ax-HE160 MCS0	Bottom Face	0mm	Aux	Tablet	111	6505	Vendor 2	14.90	15.00	1.023	85.48	1.170	-0.08	0.088	0.105	0.396	0.474
	WLAN6GHz	802.11ax-HE160 MCS0	Edge 1	0mm	Aux	Tablet	111	6505	Vendor 2	14.90	15.00	1.023	85.48	1.170	0.15	0.244	0.292	1.75	2.095
06	WLAN6GHz	802.11ax-HE160 MCS0	Edge 1	0mm	Aux	Tablet	15	6025	Vendor 2	14.80	15.00	1.047	85.48	1.170	-0.12	0.277	0.339	1.89	2.316
	WLAN6GHz	802.11ax-HE160 MCS0	Edge 1	0mm	Aux	Tablet	47	6185	Vendor 2	14.70	15.00	1.072	85.48	1.170	-0.16	0.262	0.328	1.6	2.006
	WLAN6GHz	802.11ax-HE160 MCS0	Edge 1	0mm	Aux	Tablet	143	6665	Vendor 2	14.60	15.00	1.096	85.48	1.170	-0.18	0.235	0.301	1.61	2.065
	WLAN6GHz	802.11ax-HE160 MCS0	Edge 1	0mm	Aux	Tablet	207	6985	Vendor 2	14.70	15.00	1.072	85.48	1.170	0.02	0.222	0.278	1.78	2.232
	WLAN6GHz	802.11ax-HE160 MCS0	Edge 1	0mm	Aux	Tablet	15	6025	Vendor 1	14.80	15.00	1.047	85.48	1.170	0.13	0.253	0.310	1.58	1.936
	WLAN6GHz	802.11ax-HE160 MCS0	Edge 1	0mm	Aux	Tablet	15	6025	Vendor 3	14.80	15.00	1.047	85.48	1.170	-0.02	0.249	0.305	1.47	1.801
	WLAN6GHz	802.11ax-HE160 MCS0	Bottom Face	0mm	Main	Tablet	15	6025	Vendor 2	14.90	15.00	1.023	85.48	1.170	0.14	0.040	0.048	0.225	0.269
	WLAN6GHz	802.11ax-HE160 MCS0	Edge 1	0mm	Main	Tablet	15	6025	Vendor 2	14.90	15.00	1.023	85.48	1.170	-0.04	0.203	0.243	1.21	1.449
	WLAN6GHz	802.11ax-HE160 MCS0	Edge 1	0mm	Main	Tablet	47	6185	Vendor 2	14.70	15.00	1.072	85.48	1.170	-0.01	0.274	0.344	1.56	1.956
	WLAN6GHz	802.11ax-HE160 MCS0	Edge 1	0mm	Main	Tablet	111	6505	Vendor 2	14.80	15.00	1.047	85.48	1.170	0.01	0.253	0.310	1.5	1.838
07	WLAN6GHz	802.11ax-HE160 MCS0	Edge 1	0mm	Main	Tablet	143	6665	Vendor 2	14.80	15.00	1.047	85.48	1.170	0.17	0.298	0.365	1.78	2.181
	WLAN6GHz	802.11ax-HE160 MCS0	Edge 1	0mm	Main	Tablet	207	6985	Vendor 2	14.80	15.00	1.047	85.48	1.170	-0.19	0.169	0.207	1.1	1.348
	WLAN6GHz	802.11ax-HE160 MCS0	Edge 1	0mm	Main	Tablet	143	6665	Vendor 1	14.80	15.00	1.047	85.48	1.170	0.07	0.256	0.314	1.53	1.874
	WLAN6GHz	802.11ax-HE160 MCS0	Edge 1	0mm	Main	Tablet	143	6665	Vendor 3	14.80	15.00	1.047	85.48	1.170	-0.12	0.263	0.322	1.62	1.985

<Bluetooth SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Configuration	Ch.	Freq. (MHz)	Antenna Vendor	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
08	Bluetooth	1Mbps	Edge 1	0mm	Aux	Tablet	0	2402	Vendor 2	10.80	11.50	1.175	76.6	1.087	0.06	0.066	0.084
	Bluetooth	1Mbps	Edge 1	0mm	Aux	Tablet	0	2402	Vendor 1	10.80	11.50	1.175	76.6	1.087	0.04	0.056	0.072
	Bluetooth	1Mbps	Edge 1	0mm	Aux	Tablet	0	2402	Vendor 3	10.80	11.50	1.175	76.6	1.087	0.13	0.061	0.078

13.2 6GHz PD SAR Result

Band	Mode	Test Position	Gap (mm)	Antenna	Antenna Vendor	Ch.	Freq. (MHz)	Average Power (dBm)	Grid Step (λ)	iPDn	iPD ratio (≥ -1)	Normal psPD (W/m ²)	Total psPD (W/m ²)
WLAN6GHz	802.11ax-HE160 MCS0	Edge 1	2mm	Ant Aux	Vendor 2	15	6025	14.80	0.0625	2.25	1.646617973	2.54	2.74
WLAN6GHz	802.11ax-HE160 MCS0	Edge 1	10mm	Ant Aux	Vendor 2	15	6025	14.80	0.25	1.54		0.298	0.322
WLAN6GHz	802.11ax-HE160 MCS0	Edge 1	2mm	Ant Aux	Vendor 2	207	6985	14.70	0.0625	2.57	0.918697884	2.21	2.31
WLAN6GHz	802.11ax-HE160 MCS0	Edge 1	8.59mm	Ant Aux	Vendor 2	207	6985	14.70	0.25	2.08		0.639	0.672

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Antenna Vendor	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Grid Step (λ)	Scaling Factor for Measurement Uncertainty	Power Drift (dB)	Normal psPD (W/m ²)	Scaled Normal psPD (W/m ²)	Total psPD (W/m ²)	Scaled Total psPD (W/m ²)
	WLAN6GHz	802.11ax-HE160 MCS0	Bottom Face	2mm	Main	Vendor 2	15	6025	14.90	15.00	1.023	85.48	1.170	0.0625	1.5535	0.02	0.225	0.42	0.261	0.49
	WLAN6GHz	802.11ax-HE160 MCS0	Edge 1	2mm	Main	Vendor 2	15	6025	14.90	15.00	1.023	85.48	1.170	0.0625	1.5535	-0.06	2.25	4.18	2.35	4.37
	WLAN6GHz	802.11ax-HE160 MCS0	Edge 1	2mm	Main	Vendor 2	47	6185	14.70	15.00	1.072	85.48	1.170	0.0625	1.5535	-0.06	1.6	3.12	2.18	4.25
	WLAN6GHz	802.11ax-HE160 MCS0	Edge 1	2mm	Main	Vendor 2	111	6505	14.80	15.00	1.047	85.48	1.170	0.0625	1.5535	-0.04	0.765	1.46	0.812	1.55
	WLAN6GHz	802.11ax-HE160 MCS0	Edge 1	2mm	Main	Vendor 2	143	6665	14.80	15.00	1.047	85.48	1.170	0.0625	1.5535	-0.11	2.35	4.47	2.42	4.61
	WLAN6GHz	802.11ax-HE160 MCS0	Edge 1	2mm	Main	Vendor 2	207	6985	14.80	15.00	1.047	85.48	1.170	0.0625	1.5535	-0.09	1.3	2.47	1.37	2.61
	WLAN6GHz	802.11ax-HE160 MCS0	Edge 1	2mm	Main	Vendor 1	143	6665	14.80	15.00	1.047	85.48	1.170	0.0625	1.5535	0.07	2.11	4.02	2.23	4.24
	WLAN6GHz	802.11ax-HE160 MCS0	Edge 1	2mm	Main	Vendor 3	143	6665	14.80	15.00	1.047	85.48	1.170	0.0625	1.5535	-0.01	2.06	3.92	2.24	4.26
	WLAN6GHz	802.11ax-HE160 MCS0	Bottom Face	2mm	Aux	Vendor 2	111	6505	14.90	15.00	1.023	85.48	1.170	0.0625	1.5535	0.06	0.396	0.74	0.448	0.83
	WLAN6GHz	802.11ax-HE160 MCS0	Edge 1	2mm	Aux	Vendor 2	111	6505	14.90	15.00	1.023	85.48	1.170	0.0625	1.5535	-0.1	1.08	2.01	1.22	2.27
01	WLAN6GHz	802.11ax-HE160 MCS0	Edge 1	2mm	Aux	Vendor 2	15	6025	14.80	15.00	1.047	85.48	1.170	0.0625	1.5535	-0.13	2.54	4.83	2.72	5.18
	WLAN6GHz	802.11ax-HE160 MCS0	Edge 1	2mm	Aux	Vendor 2	47	6185	14.70	15.00	1.072	85.48	1.170	0.0625	1.5535	-0.13	2.29	4.46	2.54	4.95
	WLAN6GHz	802.11ax-HE160 MCS0	Edge 1	2mm	Aux	Vendor 2	143	6665	14.60	15.00	1.096	85.48	1.170	0.0625	1.5535	0	1.16	2.31	1.27	2.53
	WLAN6GHz	802.11ax-HE160 MCS0	Edge 1	2mm	Aux	Vendor 2	207	6985	14.70	15.00	1.072	85.48	1.170	0.0625	1.5535	-0.06	2.21	4.30	2.31	4.50
	WLAN6GHz	802.11ax-HE160 MCS0	Edge 1	2mm	Aux	Vendor 1	15	6025	14.80	15.00	1.047	85.48	1.170	0.0625	1.5535	-0.08	2.31	4.40	2.58	4.91
	WLAN6GHz	802.11ax-HE160 MCS0	Edge 1	2mm	Aux	Vendor 3	15	6025	14.80	15.00	1.047	85.48	1.170	0.0625	1.5535	0.12	2.27	4.32	2.49	4.74

14. Simultaneous Transmission Analysis

NO.	Simultaneous Transmission Configurations	Body
1.	WLAN2.4GHz Main + WLAN2.4GHz Aux	Yes
2.	WLAN2.4GHz Main + WLAN5/6GHz Aux	Yes
3.	WLAN2.4GHz Aux+ WLAN5/6GHz Main	Yes
4.	WLAN5/6GHz Main + WLAN5/6GHz Aux+ Bluetooth Aux	Yes

General Note:

- The Scaled SAR summation is calculated based on the same configuration and test position.
- Per KDB 447498 D01v06, simultaneous transmission SAR is compliant if,
 - Scalar SAR summation < 1.6W/kg.
 - $SPLSR = (SAR1 + SAR2)^{1.5} / (\text{min. separation distance, mm})$, and the peak separation distance is determined from the square root of $[(x1-x2)^2 + (y1-y2)^2 + (z1-z2)^2]$, where (x1, y1, z1) and (x2, y2, z2) are the coordinates of the extrapolated peak SAR locations in the zoom scan.
 - If $SPLSR \leq 0.04$, simultaneously transmission SAR measurement is not necessary.
 - Simultaneously transmission SAR measurement, and the reported multi-band SAR < 1.6W/kg.

14.1 Body Exposure Conditions

Exposure Position	1	2	3	4	5	3+4+5 Summed 10g SAR (W/kg)	1+4 Summed 10g SAR (W/kg)	2+3 Summed 10g SAR (W/kg)	1+2 Summed 1g SAR (W/kg)
	WLAN2.4GHz Aux 1g SAR (W/kg)	WLAN2.4GHz Main 1g SAR (W/kg)	WLAN5/6GHz Aux 1g SAR (W/kg)	WLAN5/6GHz Main 1g SAR (W/kg)	Bluetooth Aux 1g SAR (W/kg)				
Bottom Face at 0mm	0.067	0.044	0.243	0.182		0.425	0.249	0.287	0.111
Edge 1 at 0mm	0.829	0.387	0.730	0.478	0.084	1.292	1.307	1.117	1.216
Edge 2 at 0mm		0.148				0.000	0.000	0.148	0.148
Edge 4 at 0mm	0.108					0.000	0.108	0.000	0.108

Test Engineer : Dennis Hsieh and Jay Chien

15. Uncertainty Assessment

Declaration of Conformity:

The test results with all measurement uncertainty excluded is presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

The component of uncertainty may generally be categorized according to the methods used to evaluate them. The evaluation of uncertainty by the statistical analysis of a series of observations is termed a Type A evaluation of uncertainty. The evaluation of uncertainty by means other than the statistical analysis of a series of observation is termed a Type B evaluation of uncertainty. Each component of uncertainty, however evaluated, is represented by an estimated standard deviation, termed standard uncertainty, which is determined by the positive square root of the estimated variance.

A Type A evaluation of standard uncertainty may be based on any valid statistical method for treating data. This includes calculating the standard deviation of the mean of a series of independent observations; using the method of least squares to fit a curve to the data in order to estimate the parameter of the curve and their standard deviations; or carrying out an analysis of variance in order to identify and quantify random effects in certain kinds of measurement.

A type B evaluation of standard uncertainty is typically based on scientific judgment using all of the relevant information available. These may include previous measurement data, experience, and knowledge of the behavior and properties of relevant materials and instruments, manufacture's specification, data provided in calibration reports and uncertainties assigned to reference data taken from handbooks. Broadly speaking, the uncertainty is either obtained from an outdoor source or obtained from an assumed distribution, such as the normal distribution, rectangular or triangular distributions indicated in table below.

Uncertainty Distributions	Normal	Rectangular	Triangular	U-Shape
Multi-plying Factor ^(a)	$1/k^{(b)}$	$1/\sqrt{3}$	$1/\sqrt{6}$	$1/\sqrt{2}$

(a) standard uncertainty is determined as the product of the multiplying factor and the estimated range of variations in the measured quantity

(b) k is the coverage factor

Standard Uncertainty for Assumed Distribution

The combined standard uncertainty of the measurement result represents the estimated standard deviation of the result. It is obtained by combining the individual standard uncertainties of both Type A and Type B evaluation using the usual "root-sum-squares" (RSS) methods of combining standard deviations by taking the positive square root of the estimated variances.

Expanded uncertainty is a measure of uncertainty that defines an interval about the measurement result within which the measured value is confidently believed to lie. It is obtained by multiplying the combined standard uncertainty by a coverage factor. Typically, the coverage factor ranges from 2 to 3. Using a coverage factor allows the true value of a measured quantity to be specified with a defined probability within the specified uncertainty range. For purpose of this document, a coverage factor two is used, which corresponds to confidence interval of about 95 %. The DASY uncertainty Budget is shown in the following tables.

The judgment of conformity in the report is based on the measurement results excluding the measurement uncertainty.

Applicable for SAR Measurements:

Uncertainty Budget (4 MHz - 10 GHz range)							
Error Description	Uncertainty Value (±%)	Probability	Divisor	(Ci) 1g	(Ci) 10g	Standard Uncertainty (1g) (±%)	Standard Uncertainty (10g) (±%)
Measurement System							
Probe Calibration	18.60	N	2	1	1	9.3	9.3
Axial Isotropy	4.70	R	1.732	0.7	0.7	1.9	1.9
Hemispherical Isotropy	9.60	R	1.732	0.7	0.7	3.9	3.9
Linearity	4.70	R	1.732	1	1	2.7	2.7
Modulation Response	4.68	R	1.732	1	1	2.7	2.7
System Detection Limits	1.00	R	1.732	1	1	0.6	0.6
Boundary Effects	2.00	R	1.732	1	1	1.2	1.2
Readout Electronics	0.30	N	1	1	1	0.3	0.3
Response Time	0.00	R	1.732	1	1	0.0	0.0
Integration Time	2.60	R	1.732	1	1	1.5	1.5
RF Ambient Noise	3.00	R	1.732	1	1	1.7	1.7
RF Ambient Reflections	3.00	R	1.732	1	1	1.7	1.7
Probe Positioner	0.40	R	1.732	1	1	0.2	0.2
Probe Positioning	6.70	R	1.732	1	1	3.9	3.9
Post-processing	4.00	R	1.732	1	1	2.3	2.3
Test Sample Related							
Device Holder	3.60	N	1	1	1	3.6	3.6
Test sample Positioning	3.03	N	1	1	1	3.0	3.0
Power Scaling	0.00	R	1.732	1	1	0.0	0.0
Power Drift	5.00	R	1.732	1	1	2.9	2.9
Phantom and Setup							
Phantom Uncertainty	7.60	R	1.732	1	1	4.4	4.4
SAR correction	0.00	R	1.732	1	0.84	0.0	0.0
Liquid Conductivity Repeatability	0.03	N	1	0.78	0.77	0.0	0.0
Liquid Conductivity (target)	5.00	R	1.732	0.78	0.77	2.3	2.2
Liquid Conductivity (mea.)	2.50	R	1.732	0.78	0.77	1.1	1.1
Temp. unc. - Conductivity	3.68	R	1.732	0.78	0.77	1.7	1.6
Liquid Permittivity Repeatability	0.02	N	1	0.23	0.26	0.0	0.0
Liquid Permittivity (target)	5.00	R	1.732	0.23	0.26	0.7	0.8
Liquid Permittivity (mea.)	2.50	R	1.732	0.23	0.26	0.3	0.4
Temp. unc. - Permittivity	0.84	R	1.732	0.23	0.26	0.1	0.1
Combined Std. Uncertainty						14.5%	14.2%
Coverage Factor for 95 %						K=2	K=2
Expanded STD Uncertainty						29.0%	28.4%

Applicable for Power Density Measurements:

Error Description	Uncertainty Value (±dB)	Probability	Divisor	(Ci)	Standard Uncertainty (±dB)
Probe Calibration	0.49	N	1	1	0.49
Probe correction	0.00	R	1.732	1	0.00
Frequency response (BW ≤ 1 GHz)	0.20	R	1.732	1	0.12
Sensor cross coupling	0.00	R	1.732	1	0.00
Isotropy	0.50	R	1.732	1	0.29
Linearity	0.20	R	1.732	1	0.12
Probe scattering	0.00	R	1.732	1	0.00
Probe positioning offset	0.30	R	1.732	1	0.17
Probe positioning repeatability	0.04	R	1.732	1	0.02
Sensor mechanical offset	0.00	R	1.732	1	0.00
Probe spatial resolution	0.00	R	1.732	1	0.00
Field impedance dependence	0.00	R	1.732	1	0.00
Amplitude and phase drift	0.00	R	1.732	1	0.00
Amplitude and phase noise	0.04	R	1.732	1	0.02
Measurement area truncation	0.00	R	1.732	1	0.00
Data acquisition	0.03	N	1	1	0.03
Sampling	0.00	R	1.732	1	0.00
Field reconstruction	2.00	R	1.732	1	1.15
Forward transformation	0.00	R	1.732	1	0.00
Power density scaling	0.00	R	1.732	1	0.00
Spatial averaging	0.10	R	1.732	1	0.06
System detection limit	0.04	R	1.732	1	0.02
Uncertainty terms dependent on the DUT and environmental factors					
Probe coupling with DUT	0.00	R	1.732	1	0.0
Modulation response	0.40	R	1.732	1	0.2
Integration time	0.00	R	1.732	1	0.0
Response time	0.00	R	1.732	1	0.0
Device holder influence	0.10	R	1.732	1	0.1
DUT alignment	0.00	R	1.732	1	0.0
RF ambient conditions	0.04	R	1.732	1	0.0
Ambient reflections	0.04	R	1.732	1	0.0
Immunity / secondary reception	0.00	R	1.732	1	0.0
Drift of the DUT		R	1.732	1	
Combined Std. Uncertainty					1.34
Expanded STD Uncertainty (95%)					2.68

16. References

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