



Element Materials Technology

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RF EXPOSURE REPORT

Applicant Name:
Apple Inc.
One Apple Park Way
Cupertino, CA 95014 USA

Date of Testing:
05/19/2025 – 08/03/2025
Test Report Issue Date:
08/20/2025
Test Site/Location:
Element, Morgan Hill, CA, USA
Document Serial No.:
1C2504170038-01.BCG-R3

FCC ID: BCGA3357
APPLICANT: APPLE, INC.

DUT Type: Tablet Device
Application Type: Certification
FCC Rule Part(s): CFR §2.1093
Models: A3357

Equipment Class	Band & Mode	Operating Modes	Tx Frequency	SAR 1g Body (W/kg)
DTS	2.4 GHz WiFi	Voice/Data	2412 - 2472 MHz	1.19
NH	5 GHz WiFi	Voice/Data	U-NB-1: 5180 - 5200 MHz U-NB-2A: 5280 - 5320 MHz U-NB-2C: 5500 - 5720 MHz U-NB-3: 5745 - 5825 MHz	1.18
6CD/IVL	6 GHz WiFi	Voice/Data	U-NB-5: 5935 - 6415 MHz U-NB-6: 6435 - 6515 MHz U-NB-7: 6535 - 6575 MHz U-NB-8: 6855 - 7115 MHz	0.57
DSS/DTS	2.4 GHz Bluetooth	Data	2402 - 2480 MHz	0.69
DTS	802.15.4	Data	2405 - 2475 MHz	1.05
NH	NB U-NB 1	Data	5182 - 5245 MHz	0.49
NH	NB U-NB 3	Data	5753 - 5844 MHz	1.15
IVL	NB U-NB 5	Data	5953 - 6420 MHz	<0.1
DOX	UPT	N/A	13.56 MHz	<0.1
Simultaneous SAR per KDB 690783 D01v0103:				
Equipment Class	Band & Mode	Operating Modes	Tx Frequency	APD (W/m²)
6CD/IVL	6 GHz WiFi	Voice/Data	U-NB-5: 5935 - 6415 MHz U-NB-6: 6435 - 6515 MHz U-NB-7: 6535 - 6575 MHz U-NB-8: 6855 - 7115 MHz	3.85
IVL	NB U-NB 5	Data	5953 - 6420 MHz	0.33
Equipment Class	Band & Mode	Operating Modes	Tx Frequency	Reported PD (W/m²)
6CD/IVL	6 GHz WiFi	Voice/Data	U-NB-5: 5935 - 6415 MHz U-NB-6: 6435 - 6515 MHz U-NB-7: 6535 - 6575 MHz U-NB-8: 6855 - 7115 MHz	7.08
IVL	NB U-NB 5	Data	5953 - 6420 MHz	0.56

Note: This revised Test Report supersedes and replaces the previously issued test report on the same subject device for the same type of testing as indicated. Please discard or destroy the previously issued test report(s) and dispose of it accordingly.

This wireless portable device has been shown to be capable of compliance for localized specific absorption rate (SAR) for uncontrolled environment/general population exposure limits specified in ANSI/IEEE C95.1-1992 and has been tested in accordance with the measurement procedures specified in Section 1.7 of this report; for North American frequency bands only.

I attest to the accuracy of data. All measurements reported herein were performed by me or were made under my supervision and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them. Test results reported herein relate only to the item(s) tested.

RJ Ortanez
Executive Vice President



The SAR Tick is an initiative of the Mobile & Wireless Forum (MWF). While a product may be considered eligible, use of the SAR Tick logo requires an agreement with the MWF. Further details can be obtained by emailing: sartick@mwfi.info.

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1 DEVICE UNDER TEST

1.1 Device Overview

Band & Mode	Operating Modes	Tx Frequency
2.4 GHz WIFI	Voice/Data	2412 - 2472 MHz
5 GHz WIFI	Voice/Data	U-NII-1: 5180 - 5240 MHz U-NII-2A: 5260 - 5320 MHz U-NII-2C: 5500 - 5720 MHz U-NII-3: 5745 - 5825 MHz
6 GHz WIFI	Voice/Data	U-NII-5: 5935 - 6415 MHz U-NII-6: 6435 - 6515 MHz U-NII-7: 6535 - 6875 MHz U-NII-8: 6895 - 7115 MHz
Bluetooth	Data	2402 - 2480 MHz
802.15.4	Data	2405 - 2475 MHz
NB UNII-1	Data	5162 - 5245 MHz
NB UNII-3	Data	5733 - 5844 MHz
NB UNII-5	Data	6108 - 6420 MHz
WPT	N/A	13.56 MHz

1.2 Time-Averaging Algorithm for RF Exposure Compliance

1.2.1 System Description of TAS

This device uses a time-averaged SAR (TAS) technology for the connectivity transmitters (i.e., WLAN, BT, 802.15.4, NB UNII). A central manager, referred to as the RF Exposure Manager, is responsible for maintaining the rolling time-averaged RF exposure over the applicable regulatory compliance window. This manager allocates a total RF exposure budget and specifies the RF exposure compliance limit to the connectivity radios. The radio controllers manage their transmissions to always maintain their consumption below the regulatory RF exposure limit. They report their consumed RF exposure back to the RF Exposure Manager. The RF Exposure Manager uses this feedback to allocate updated budget information throughout the regulatory averaging window.

For the purposes of this test report, all SAR measurements were performed with the algorithm disabled at the maximum time-averaged output power level. Verification data for this time-averaged SAR mechanism can be found in the Connectivity Time-Averaged SAR Validation Report.

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1.2.2 RF Exposure Target and Power Limit Declaration

For this device, the RF Exposure Target (RFE Target) is defined as 1.20 W/kg (1 g SAR), which is below the FCC regulatory limit of 1.6 W/kg and includes margin for device and measurement uncertainty.

Based on RF exposure characterization, the maximum time-averaged transmit power limits (Plimit) for all supported connectivity radios have been determined and compared against the respective tune-up maximum powers (Pmax). In cases where Plimit is equal to or higher than Pmax, compliance is demonstrated by SAR measurements at Pmax, confirming that all results remain below the RFE Target.

For configurations where Plimit is lower than Pmax, compliance is ensured by maintaining the rolling average transmit power (Pavg) within Plimit. In these cases, static SAR testing at Plimit is documented in this report, and dynamic compliance validation relative to Plimit is provided in the separate Part 2 Connectivity TAS Validation Report. That report includes the conducted power traces and normalized average power (Pavg,norm) results, demonstrating that the time-averaged transmit power remains within the required limit, as specified in the manufacturer's guidance.

This Part 1 report establishes the RFE Target and declares the Plimit and Pmax for each supported configuration. Dynamic validation evidence when Plimit is lower than Pmax is provided separately in the Part 2 Connectivity TAS Validation Report.

1.3 Nominal and Maximum Output Power Specifications

This device operates using the following maximum and nominal output power specifications. SAR values were scaled to the maximum allowed power to determine compliance per KDB Publication 447498 D04v01.

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1.3.1 Maximum WLAN Time-Averaged Output Power

Note: In MIMO operations, each antenna transmits at maximum allowed powers.

Note: Targets for 802.11ax/be RU operations can be found in RU SAR Exclusion Appendix.

Mode	Channel	IEEE 802.11 (Maximum in dBm) - Antenna WF8							
		SISO b (Maximum)	SISO b (Nominal)	SISO g (Maximum)	SISO g (Nominal)	SISO n (Maximum)	SISO n (Nominal)	SISO ax SU (Maximum)	SISO ax SU (Nominal)
2.4 GHz WIFI 20 MHz Bandwidth	1	19.25	18.25	14.70	13.70	14.70	13.70	14.50	13.50
	2	19.25	18.25	17.70	16.70	17.70	16.70	17.50	16.50
	3	19.25	18.25	19.00	18.00	19.00	18.00	18.50	17.50
	4	19.25	18.25	19.25	18.25	19.25	18.25	19.25	18.25
	5	19.25	18.25	19.25	18.25	19.25	18.25	19.25	18.25
	6	19.25	18.25	19.25	18.25	19.25	18.25	19.25	18.25
	7	19.25	18.25	19.25	18.25	19.25	18.25	19.25	18.25
	8	19.25	18.25	19.25	18.25	19.25	18.25	18.70	17.70
	9	19.25	18.25	19.00	18.00	19.00	18.00	18.20	17.20
	10	19.25	18.25	17.50	16.50	17.50	16.50	16.20	15.20
	11	19.25	18.25	15.50	14.50	15.50	14.50	15.00	14.00
	12	18.50	17.50	13.00	12.00	13.00	12.00	13.00	12.00
	13	15.70	14.70	7.00	6.00	7.00	6.00	3.70	2.70

Mode	Channel	IEEE 802.11 (Maximum in dBm) - Antenna WF8							
		MIMO CDD g/n (Maximum)	MIMO CDD g/n (Nominal)	MIMO CDD ax SU (Maximum)	MIMO CDD ax SU (Nominal)	MIMO SDM g/n (Maximum)	MIMO SDM g/n (Nominal)	MIMO SDM ax SU (Maximum)	MIMO SDM ax SU (Nominal)
2.4 GHz WIFI 20 MHz Bandwidth	1	14.50	13.50	14.00	13.00	14.50	13.50	14.00	13.00
	2	17.50	16.50	16.20	15.20	17.50	16.50	16.20	15.20
	3	18.50	17.50	17.50	16.50	18.50	17.50	17.50	16.50
	4	19.25	18.25	19.00	18.00	19.25	18.25	19.00	18.00
	5	19.25	18.25	19.25	18.25	19.25	18.25	19.25	18.25
	6	19.25	18.25	19.25	18.25	19.25	18.25	19.25	18.25
	7	19.25	18.25	19.25	18.25	19.25	18.25	19.25	18.25
	8	19.00	18.00	18.20	17.20	19.00	18.00	18.20	17.20
	9	18.70	17.70	18.00	17.00	18.70	17.70	18.00	17.00
	10	17.50	16.50	16.20	15.20	17.50	16.50	16.20	15.20
	11	14.50	13.50	14.00	13.00	14.50	13.50	14.00	13.00
	12	12.50	11.50	12.50	11.50	12.50	11.50	12.50	11.50
	13	6.50	5.50	3.70	2.70	6.50	5.50	3.70	2.70

Mode	Channel	IEEE 802.11 (Maximum in dBm) - Antenna WF7							
		SISO b (Maximum)	SISO b (Nominal)	SISO g (Maximum)	SISO g (Nominal)	SISO n (Maximum)	SISO n (Nominal)	SISO ax SU (Maximum)	SISO ax SU (Nominal)
2.4 GHz WIFI 20 MHz Bandwidth	1	19.50	18.50	14.70	13.70	14.70	13.70	14.50	13.50
	2	19.50	18.50	19.20	18.20	19.20	18.20	18.00	17.00
	3	19.50	18.50	19.50	18.50	19.50	18.50	19.50	18.50
	4	19.50	18.50	19.50	18.50	19.50	18.50	19.50	18.50
	5	19.50	18.50	19.50	18.50	19.50	18.50	19.50	18.50
	6	19.50	18.50	19.50	18.50	19.50	18.50	19.50	18.50
	7	19.50	18.50	19.50	18.50	19.50	18.50	19.50	18.50
	8	19.50	18.50	19.50	18.50	19.50	18.50	19.50	18.50
	9	19.50	18.50	19.50	18.50	19.50	18.50	19.50	18.50
	10	19.50	18.50	19.00	18.00	19.00	18.00	17.50	16.50
	11	19.50	18.50	15.50	14.50	15.50	14.50	14.50	13.50
	12	17.50	16.50	13.50	12.50	13.50	12.50	13.00	12.00
	13	15.70	14.70	8.20	7.20	8.20	7.20	4.50	3.50

Mode	Channel	IEEE 802.11 (Maximum in dBm) - Antenna WF7							
		MIMO CDD g/n (Maximum)	MIMO CDD g/n (Nominal)	MIMO CDD ax SU (Maximum)	MIMO CDD ax SU (Nominal)	MIMO SDM g/n (Maximum)	MIMO SDM g/n (Nominal)	MIMO SDM ax SU (Maximum)	MIMO SDM ax SU (Nominal)
2.4 GHz WIFI 20 MHz Bandwidth	1	14.50	13.50	14.00	13.00	14.50	13.50	14.00	13.00
	2	17.50	16.50	16.20	15.20	17.50	16.50	16.20	15.20
	3	18.50	17.50	17.50	16.50	18.50	17.50	17.50	16.50
	4	19.50	18.50	19.00	18.00	19.50	18.50	19.00	18.00
	5	19.50	18.50	19.50	18.50	19.50	18.50	19.50	18.50
	6	19.50	18.50	19.50	18.50	19.50	18.50	19.50	18.50
	7	19.50	18.50	19.50	18.50	19.50	18.50	19.50	18.50
	8	19.00	18.00	18.20	17.20	19.00	18.00	18.20	17.20
	9	18.70	17.70	18.00	17.00	18.70	17.70	18.00	17.00
	10	17.50	16.50	16.20	15.20	17.50	16.50	16.20	15.20
	11	14.50	13.50	14.00	13.00	14.50	13.50	14.00	13.00
	12	12.50	11.50	12.50	11.50	12.50	11.50	12.50	11.50
	13	6.50	5.50	3.70	2.70	6.50	5.50	3.70	2.70

Mode	Channel	IEEE 802.11 (Maximum in dBm) - Antenna WF9							
		SISO b (Maximum)	SISO b (Nominal)	SISO g (Maximum)	SISO g (Nominal)	SISO n (Maximum)	SISO n (Nominal)	SISO ax SU (Maximum)	SISO ax SU (Nominal)
2.4 GHz WIFI 20 MHz Bandwidth	1	20.75	19.75	14.70	13.70	14.70	13.70	14.50	13.50
	2	20.75	19.75	19.20	18.20	19.20	18.20	18.00	17.00
	3	20.75	19.75	20.50	19.50	20.50	19.50	19.50	18.50
	4	20.75	19.75	20.75	19.75	20.75	19.75	20.00	19.00
	5	20.75	19.75	20.75	19.75	20.75	19.75	20.75	19.75
	6	20.75	19.75	20.75	19.75	20.75	19.75	20.75	19.75
	7	20.75	19.75	20.75	19.75	20.75	19.75	20.75	19.75
	8	20.75	19.75	20.50	19.50	20.50	19.50	19.50	18.50
	9	20.75	19.75	20.50	19.50	20.50	19.50	19.50	18.50
	10	20.75	19.75	19.00	18.00	19.00	18.00	17.50	16.50
	11	20.75	19.75	15.50	14.50	15.50	14.50	14.50	13.50
	12	17.50	16.50	13.50	12.50	13.50	12.50	13.00	12.00
	13	15.70	14.70	8.20	7.20	8.20	7.20	4.50	3.50

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Mode	IEEE 802.11 (Maximum in dBm) - Antenna WF9									
	Channel	MIMO CDD	MIMO CDD	MIMO CDD	MIMO CDD	MIMO SDM	MIMO SDM	MIMO SDM	MIMO SDM	MIMO SDM
		g/n (Maximum)	g/n (Nominal)	ax SU (Maximum)	ax SU (Nominal)	g/n (Maximum)	g/n (Nominal)	ax SU (Maximum)	ax SU (Nominal)	
2.4 GHz WIFI 20 MHz Bandwidth	1	14.50	14.00	13.50	13.00	13.50	13.00	14.50	14.00	
	2	17.50	16.50	16.20	15.20	17.50	16.50	16.20	15.20	
	3	18.50	17.50	17.50	16.50	18.50	17.50	17.50	16.50	
	4	20.50	19.50	19.00	18.00	20.50	19.50	19.00	18.00	
	5	20.50	19.50	20.20	19.20	20.50	19.50	20.20	19.20	
	6	20.75	19.75	20.50	19.50	20.75	19.75	20.50	19.50	
	7	20.20	19.20	20.00	19.00	20.20	19.20	20.00	19.00	
	8	19.00	18.00	18.20	17.20	19.00	18.00	18.20	17.20	
	9	18.70	17.70	18.00	17.00	18.70	17.70	18.00	17.00	
	10	17.50	16.50	16.20	15.20	17.50	16.50	16.20	15.20	
	11	14.50	13.50	14.00	13.00	14.50	13.50	14.00	13.00	
	12	12.50	11.50	12.50	11.50	12.50	11.50	12.50	11.50	
	13	6.50	5.50	3.70	2.70	6.50	5.50	3.70	2.70	

Mode	Channel	IEEE 802.11 (Maximum 16 channels) - Antenna WDR															
		SISO a (Maximum)	SISO a (Maximum)	SISO a (Maximum)	SISO a (Maximum)	SISO a (Maximum)	SISO a (Maximum)	SISO a (Maximum)	SISO a (Maximum)	MIMO CDD a (Maximum)	MIMO CDD a (Maximum)	MIMO CDD a (Maximum)	MIMO CDD a (Maximum)	MIMO CDD a (Maximum)	MIMO CDD a (Maximum)	MIMO CDD a (Maximum)	MIMO CDD a (Maximum)
5 GHz WDR 20 MHz Bandwidth	36	18.50	17.50	18.50	17.50	18.50	18.50	17.50	18.50	18.50	17.50	18.50	18.50	17.50	18.50	18.50	17.50
	40	20.00	19.00	20.00	19.00	20.00	20.00	19.00	20.00	20.00	19.00	20.00	20.00	19.00	20.00	20.00	19.00
	44	20.00	19.00	20.00	19.00	20.00	20.00	19.00	20.00	20.00	19.00	20.00	20.00	19.00	20.00	20.00	19.00
	48	20.00	19.00	20.00	19.00	20.00	20.00	19.00	20.00	20.00	19.00	20.00	20.00	19.00	20.00	20.00	19.00
	52	20.00	19.00	20.00	19.00	20.00	20.00	19.00	20.00	20.00	19.00	20.00	20.00	19.00	20.00	20.00	19.00
	56	20.00	19.00	20.00	19.00	20.00	20.00	19.00	20.00	20.00	19.00	20.00	20.00	19.00	20.00	20.00	19.00
	60	20.00	19.00	20.00	19.00	20.00	20.00	19.00	20.00	20.00	19.00	20.00	20.00	19.00	20.00	20.00	19.00
	64	18.50	17.50	18.50	17.50	18.50	18.50	17.50	18.50	18.50	17.50	18.50	18.50	17.50	18.50	18.50	17.50
	104	17.50	16.50	17.50	16.50	17.50	17.50	16.50	17.50	17.50	16.50	17.50	17.50	16.50	17.50	17.50	16.50
	108	20.00	19.00	20.00	19.00	20.00	20.00	19.00	20.00	20.00	19.00	20.00	20.00	19.00	20.00	20.00	19.00
	112	20.00	19.00	20.00	19.00	20.00	20.00	19.00	20.00	20.00	19.00	20.00	20.00	19.00	20.00	20.00	19.00
	116	20.00	19.00	20.00	19.00	20.00	20.00	19.00	20.00	20.00	19.00	20.00	20.00	19.00	20.00	20.00	19.00
	120	20.00	19.00	20.00	19.00	20.00	20.00	19.00	20.00	20.00	19.00	20.00	20.00	19.00	20.00	20.00	19.00
	124	20.00	19.00	20.00	19.00	20.00	20.00	19.00	20.00	20.00	19.00	20.00	20.00	19.00	20.00	20.00	19.00
	128	20.00	19.00	20.00	19.00	20.00	20.00	19.00	20.00	20.00	19.00	20.00	20.00	19.00	20.00	20.00	19.00
	132	20.00	19.00	20.00	19.00	20.00	20.00	19.00	20.00	20.00	19.00	20.00	20.00	19.00	20.00	20.00	19.00
5 GHz WDR 40 MHz Bandwidth	136	20.00	19.00	20.00	19.00	20.00	20.00	19.00	20.00	20.00	19.00	20.00	20.00	19.00	20.00	20.00	19.00
	140	15.75	14.75	15.75	14.75	15.75	15.75	14.75	15.75	15.75	14.75	15.75	15.75	14.75	15.75	15.75	14.75
	144	20.00	19.00	20.00	19.00	20.00	20.00	19.00	20.00	20.00	19.00	20.00	20.00	19.00	20.00	20.00	19.00
	148	20.00	19.00	20.00	19.00	20.00	20.00	19.00	20.00	20.00	19.00	20.00	20.00	19.00	20.00	20.00	19.00
	152	20.00	19.00	20.00	19.00	20.00	20.00	19.00	20.00	20.00	19.00	20.00	20.00	19.00	20.00	20.00	19.00
	156	20.00	19.00	20.00	19.00	20.00	20.00	19.00	20.00	20.00	19.00	20.00	20.00	19.00	20.00	20.00	19.00
	160	20.00	19.00	20.00	19.00	20.00	20.00	19.00	20.00	20.00	19.00	20.00	20.00	19.00	20.00	20.00	19.00
	164	20.00	19.00	20.00	19.00	20.00	20.00	19.00	20.00	20.00	19.00	20.00	20.00	19.00	20.00	20.00	19.00
	168	20.00	19.00	20.00	19.00	20.00	20.00	19.00	20.00	20.00	19.00	20.00	20.00	19.00	20.00	20.00	19.00
	172	20.00	19.00	20.00	19.00	20.00	20.00	19.00	20.00	20.00	19.00	20.00	20.00	19.00	20.00	20.00	19.00
	176	20.00	19.00	20.00	19.00	20.00	20.00	19.00	20.00	20.00	19.00	20.00	20.00	19.00	20.00	20.00	19.00
	180	20.00	19.00	20.00	19.00	20.00	20.00	19.00	20.00	20.00	19.00	20.00	20.00	19.00	20.00	20.00	19.00
	184	20.00	19.00	20.00	19.00	20.00	20.00	19.00	20.00	20.00	19.00	20.00	20.00	19.00	20.00	20.00	19.00
	188	20.00	19.00	20.00	19.00	20.00	20.00	19.00	20.00	20.00	19.00	20.00	20.00	19.00	20.00	20.00	19.00
	192	20.00	19.00	20.00	19.00	20.00	20.00	19.00	20.00	20.00	19.00	20.00	20.00	19.00	20.00	20.00	19.00
	196	20.00	19.00	20.00	19.00	20.00	20.00	19.00	20.00	20.00	19.00	20.00	20.00	19.00	20.00	20.00	19.00
5 GHz WDR 80 MHz Bandwidth	200	15.75	14.75	15.75	14.75	15.75	15.75	14.75	15.75	15.75	14.75	15.75	15.75	14.75	15.75	15.75	14.75
	204	20.00	19.00	20.00	19.00	20.00	20.00	19.00	20.00	20.00	19.00	20.00	20.00	19.00	20.00	20.00	19.00
	208	20.00	19.00	20.00	19.00	20.00	20.00	19.00	20.00	20.00	19.00	20.00	20.00	19.00	20.00	20.00	19.00
	212	20.00	19.00	20.00	19.00	20.00	20.00	19.00	20.00	20.00	19.00	20.00	20.00	19.00	20.00	20.00	19.00
	216	20.00	19.00	20.00	19.00	20.00	20.00	19.00	20.00	20.00	19.00	20.00	20.00	19.00	20.00	20.00	19.00
	220	20.00	19.00	20.00	19.00	20.00	20.00	19.00	20.00	20.00	19.00	20.00	20.00	19.00	20.00	20.00	19.00
	224	20.00	19.00	20.00	19.00	20.00	20.00	19.00	20.00	20.00	19.00	20.00	20.00	19.00	20.00	20.00	19.00
	228	20.00	19.00	20.00	19.00	20.00	20.00	19.00	20.00	20.00	19.00	20.00	20.00	19.00	20.00	20.00	19.00
	232	20.00	19.00	20.00	19.00	20.00	20.00	19.00	20.00	20.00	19.00	20.00	20.00	19.00	20.00	20.00	19.00
	236	20.00	19.00	20.00	19.00	20.00	20.00	19.00	20.00	20.00	19.00	20.00	20.00	19.00	20.00	20.00	19.00
	240	20.00	19.00	20.00	19.00	20.00	20.00	19.00	20.00	20.00	19.00	20.00	20.00	19.00	20.00	20.00	19.00
	244	20.00	19.00	20.00	19.00	20.00	20.00	19.00	20.00	20.00	19.00	20.00	20.00	19.00	20.00	20.00	19.00
	248	20.00	19.00	20.00	19.00	20.00	20.00	19.00	20.00	20.00	19.00	20.00	20.00	19.00	20.00	20.00	19.00
	252	20.00	19.00	20.00	19.00	20.00	20.00	19.00	20.00	20.00	19.00	20.00	20.00	19.00	20.00	20.00	19.00
	256	20.00	19.00	20.00	19.00	20.00	20.00	19.00	20.00	20.00	19.00	20.00	20.00	19.00	20.00	20.00	19.00
	260	20.00	19.00	20.00	19.00	20.00	20.00	19.00	20.00	20.00	19.00	20.00	20.00	19.00	20.00	20.00	19.00
5 GHz WDR 160 MHz Bandwidth	264	15.75	14.75	15.75	14.75	15.75	15.75	14.75	15.75	15.75	14.75	15.75	15.75	14.75	15.75	15.75	14.75
	268	20.00	19.00	20.00	19.00	20.00	20.00	19.00	20.00	20.00	19.00	20.00	20.00	19.00	20.00	20.00	19.00
	272	20.00	19.00	20.00	19.00	20.00	20.00	19.00	20.00	20.00	19.00	20.00	20.00	19.00	20.00	20.00	19.00
	276	20.00	19.00	20.00	19.00	20.00	20.00	19.00	20.00	20.00	19.00	20.00	20.00	19.00	20.00	20.00	19.00

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Mode	Channel	IEEE 802.11 (Maximum in dBm) - Antenna WFSB							
		SISO a (Maximum)	SISO a (Nominal)	SISO ax SU (Maximum)	SISO ax SU (Nominal)	MIMO CDD ax SU (Maximum)	MIMO CDD ax SU (Nominal)	MIMO SDM ax SU (Maximum)	MIMO SDM ax SU (Nominal)
6 GHz WiFi (20MHz BW) SP	2	NS	NS	NS	NS	NS	NS	NS	NS
	1	15.75	14.75	15.75	14.75	15.75	14.75	15.75	14.75
	5	15.75	15.75	15.75	14.75	15.75	14.75	15.75	14.75
	9-29	15.75	14.75	15.75	14.75	15.75	14.75	15.75	14.75
	33-61	15.75	14.75	15.75	14.75	15.75	14.75	15.75	14.75
	65-85	15.00	14.00	15.00	14.00	15.00	14.00	15.00	14.00
	89	15.00	14.00	15.00	14.00	15.00	14.00	15.00	14.00
	93	15.00	14.00	15.00	14.00	15.00	14.00	15.00	14.00
	97-113	NS	NS	NS	NS	NS	NS	NS	NS
	117-181	13.50	12.50	13.50	12.50	13.50	12.50	13.50	12.50
	185	NS	NS	NS	NS	NS	NS	NS	NS
	189-225	NS	NS	NS	NS	NS	NS	NS	NS
	229	NS	NS	NS	NS	NS	NS	NS	NS
233	NS	NS	NS	NS	NS	NS	NS	NS	
6 GHz WiFi (40MHz BW) SP	3			15.75	14.75	15.75	14.75	15.75	14.75
	11			15.75	14.75	15.75	14.75	15.75	14.75
	19-27			15.75	14.75	15.75	14.75	15.75	14.75
	35-59			15.75	14.75	15.75	14.75	15.75	14.75
	67-75			15.00	14.00	15.00	14.00	15.00	14.00
	83			15.00	14.00	15.00	14.00	15.00	14.00
	91			15.00	14.00	15.00	14.00	15.00	14.00
	99-107			NS	NS	NS	NS	NS	NS
	115			NS	NS	NS	NS	NS	NS
	123-179			13.50	12.50	13.50	12.50	13.50	12.50
	187			NS	NS	NS	NS	NS	NS
	195-219			NS	NS	NS	NS	NS	NS
	227			NS	NS	NS	NS	NS	NS
6 GHz WiFi (80MHz BW) SP	7			15.75	14.75	15.75	14.75	15.75	14.75
	23			15.75	14.75	15.75	14.75	15.75	14.75
	39-55			15.75	14.75	15.75	14.75	15.75	14.75
	71			15.00	14.00	15.00	14.00	15.00	14.00
	87			15.00	14.00	15.00	14.00	15.00	14.00
	103			NS	NS	NS	NS	NS	NS
	119			NS	NS	NS	NS	NS	NS
	135-167			13.50	12.50	13.50	12.50	13.50	12.50
	183			NS	NS	NS	NS	NS	NS
6 GHz WiFi (160MHz BW) SP	199			NS	NS	NS	NS	NS	NS
	215			NS	NS	NS	NS	NS	NS
	15			15.75	14.75	15.75	14.75	15.75	14.75
	47			15.75	14.75	15.75	14.75	15.75	14.75
	79			15.00	14.00	15.00	14.00	15.00	14.00
	111			NS	NS	NS	NS	NS	NS
	143			13.50	12.50	13.50	12.50	13.50	12.50
	175			NS	NS	NS	NS	NS	NS
207			NS	NS	NS	NS	NS	NS	

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Mode	IEEE 802.11 (Maximum in dBm) - Antenna WFSB								
	Channel	SISO	SISO	SISO	SISO	MIMO CDD	MIMO CDD	MIMO SDM	MIMO SDM
		a (Maximum)	a (Nominal)	ax SU (Maximum)	ax SU (Nominal)	ax SU (Maximum)	ax SU (Nominal)	ax SU (Maximum)	ax SU (Nominal)
6 GHz WiFi (20MHz BW) LP	2	NS	NS	NS	NS	NS	NS	NS	NS
	1	6.30	5.30	6.30	5.30	1.40	0.40	4.30	3.30
	5	7.30	6.30	7.40	6.40	2.40	1.40	5.30	4.30
	9-29	7.20	6.20	7.20	6.20	2.30	1.30	5.20	4.20
	33-61	8.60	7.60	8.70	7.70	2.70	1.70	5.70	4.70
	65-85	7.80	6.80	7.90	6.90	2.70	1.70	5.70	4.70
	89	7.90	6.90	8.10	7.10	2.90	1.90	5.90	4.90
	93	7.90	6.90	7.90	6.90	2.80	1.80	5.80	4.80
	97-113	7.90	6.90	8.10	7.10	2.70	1.70	5.70	4.70
	117-181	7.60	6.60	7.60	6.60	1.90	0.90	4.90	3.90
	185	7.40	6.40	7.50	6.50	2.10	1.10	5.10	4.10
	189-225	7.00	6.00	7.30	6.30	2.10	1.10	5.10	4.10
	229	7.30	6.30	7.50	6.50	2.30	1.30	5.30	4.30
	233	6.60	5.60	6.70	5.70	1.30	0.30	4.30	3.30
	3			9.50	8.50	4.50	3.50	7.40	6.40
	11			10.10	9.10	5.20	4.20	8.10	7.10
6 GHz WiFi (40MHz BW) LP	19-27			10.30	9.30	5.30	4.30	8.20	7.20
	35-59			11.60	10.60	5.60	4.60	8.60	7.60
	67-75			10.80	9.80	5.70	4.70	8.70	7.70
	83			10.70	9.70	5.60	4.60	8.60	7.60
	91			11.00	10.00	5.80	4.80	8.80	7.80
	99-107			11.10	10.10	5.60	4.60	8.60	7.60
	115			10.70	9.70	5.10	4.10	8.10	7.10
	123-179			10.70	9.70	5.10	4.10	8.10	7.10
	187			10.30	9.30	4.90	3.90	7.90	6.90
	195-219			10.30	9.30	5.10	4.10	8.10	7.10
	227			10.30	9.30	5.10	4.10	8.10	7.10
	7			12.30	11.30	7.40	6.40	10.30	9.30
	23			13.10	12.10	8.20	7.20	11.10	10.10
	39-55			14.70	13.70	8.70	7.70	11.70	10.70
	71			13.70	12.70	8.60	7.60	11.60	10.60
	87			13.80	12.80	8.70	7.70	11.70	10.70
6 GHz WiFi (80MHz BW) LP	103			14.10	13.10	8.70	7.70	11.70	10.70
	119			13.50	12.50	8.00	7.00	11.00	10.00
	135-167			13.50	12.50	8.00	7.00	11.00	10.00
	183			13.30	12.30	7.80	6.80	10.80	9.80
	199			13.20	12.20	8.00	7.00	11.00	10.00
	215			13.40	12.40	8.00	7.00	11.00	10.00
	15			15.10	14.10	10.20	9.20	13.10	12.10
	47			15.75	14.75	11.30	10.30	14.30	13.30
	79			15.00	14.00	11.60	10.60	14.60	13.60
	111			14.25	13.25	10.80	9.80	13.80	12.80
6 GHz WiFi (160MHz BW) LP	143			13.50	12.50	10.80	9.80	13.50	12.50
	175			13.50	12.50	10.50	9.50	13.50	12.50
	207			14.50	13.50	10.90	9.90	13.90	12.90

Mode	IEEE 802.11 (Maximum in dBm) - Antenna WFSB								
	Channel	SISO	SISO	SISO	SISO	MIMO CDD	MIMO CDD	MIMO SDM	MIMO SDM
		a (Maximum)	a (Nominal)	ax SU (Maximum)	ax SU (Nominal)	ax SU (Maximum)	ax SU (Nominal)	ax SU (Maximum)	ax SU (Nominal)
6 GHz WiFi (20MHz BW) VLP	2	NS	NS	NS	NS	NS	NS	NS	NS
	1	NS	NS	NS	NS	NS	NS	NS	NS
	5	NS	NS	NS	NS	NS	NS	NS	NS
	9-29	NS	NS	NS	NS	NS	NS	NS	NS
	33-61	4.60	3.60	4.70	3.70	-1.30	-2.30	1.70	0.70
	65-85	3.80	2.80	3.90	2.90	-1.30	-2.30	1.70	0.70
	89	3.90	2.90	4.10	3.10	-1.10	-2.10	1.90	0.90
	93	3.90	2.90	3.90	2.90	-1.20	-2.20	1.80	0.80
	97-113	3.90	2.90	4.10	3.10	-1.30	-2.30	1.70	0.70
	117-181	3.60	2.60	3.60	2.60	-2.10	-3.10	0.90	-0.10
	185	3.40	2.40	3.50	2.50	-1.90	-2.90	1.10	0.10
	189-225	3.00	2.00	3.30	2.30	-1.90	-2.90	1.10	0.10
	229	3.30	2.30	3.50	2.50	-1.70	-2.70	1.30	0.30
	233	2.60	1.60	2.70	1.70	-2.70	-3.70	0.30	-0.70
	3			NS	NS	NS	NS	NS	NS
	11			NS	NS	NS	NS	NS	NS
6 GHz WiFi (40MHz BW) VLP	19-27			NS	NS	NS	NS	NS	NS
	35-59			7.60	6.60	1.60	0.60	4.60	3.60
	67-75			6.80	5.80	1.70	0.70	4.70	3.70
	83			6.70	5.70	1.60	0.60	4.60	3.60
	91			7.00	6.00	1.80	0.80	4.80	3.80
	99-107			7.10	6.10	1.60	0.60	4.60	3.60
	115			6.70	5.70	1.10	0.10	4.10	3.10
	123-179			6.70	5.70	1.10	0.10	4.10	3.10
	187			6.30	5.30	0.90	-0.10	3.90	2.90
	195-219			6.30	5.30	1.10	0.10	4.10	3.10
	227			6.30	5.30	1.10	0.10	4.10	3.10
	7			NS	NS	NS	NS	NS	NS
	23			NS	NS	NS	NS	NS	NS
	39-55			10.70	9.70	4.70	3.70	7.70	6.70
	71			9.70	8.70	4.60	3.60	7.60	6.60
	87			9.80	8.80	4.70	3.70	7.70	6.70
6 GHz WiFi (80MHz BW) VLP	103			10.10	9.10	4.70	3.70	7.70	6.70
	119			9.60	8.60	4.00	3.00	7.00	6.00
	135-167			9.80	8.80	4.00	3.00	7.00	6.00
	183			9.30	8.30	3.80	2.80	6.80	5.80
	199			9.20	8.20	4.00	3.00	7.00	6.00
	215			9.40	8.40	4.00	3.00	7.00	6.00
	15			NS	NS	NS	NS	NS	NS
	47			12.50	11.50	7.30	6.30	9.50	8.50
	79			11.60	10.60	7.60	6.60	9.50	8.50
	111			11.50	10.50	6.80	5.80	8.90	7.90
6 GHz WiFi (160MHz BW) VLP	143			11.50	10.50	6.80	5.80	8.90	7.90
	175			11.10	10.10	6.50	5.50	8.70	7.70
	207			11.10	10.10	6.90	5.90	8.90	7.90

FCC ID: BCGA3357	RF EXPOSURE REPORT	Approved by: Technical Manager
DUT Type: Tablet Device		Page 8 of 83

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Mode	IEEE 802.11 (Maximum in dBm) - Antenna WF8								
	Channel	SISO	SISO	SISO	SISO	MIMO CDD	MIMO CDD	MIMO SDM	MIMO SDM
		a (Maximum)	a (Nominal)	ax SU (Maximum)	ax SU (Nominal)	ax SU (Maximum)	ax SU (Nominal)	ax SU (Maximum)	ax SU (Nominal)
6 GHz WiFi (20MHz BW) SP	2	NS	NS	NS	NS	NS	NS	NS	NS
	1	12.00	11.00	12.00	11.00	12.00	11.00	12.00	11.00
	5	12.00	11.00	12.00	11.00	12.00	11.00	12.00	11.00
	9-29	12.00	11.00	12.00	11.00	12.00	11.00	12.00	11.00
	33-61	12.00	11.00	12.00	11.00	12.00	11.00	12.00	11.00
	65-85	11.75	10.75	11.75	10.75	11.75	10.75	11.75	10.75
	89	11.75	10.75	11.75	10.75	11.75	10.75	11.75	10.75
	93	11.75	10.75	11.75	10.75	11.75	10.75	11.75	10.75
	97-113	NS	NS	NS	NS	NS	NS	NS	NS
	117-181	11.00	10.00	11.00	10.00	11.00	10.00	11.00	10.00
	185	NS	NS	NS	NS	NS	NS	NS	NS
	189-225	NS	NS	NS	NS	NS	NS	NS	NS
	229	NS	NS	NS	NS	NS	NS	NS	NS
	233	NS	NS	NS	NS	NS	NS	NS	NS
	237	NS	NS	NS	NS	NS	NS	NS	NS
6 GHz WiFi (40MHz BW) SP	3			12.00	11.00	12.00	11.00	12.00	11.00
	11			12.00	11.00	12.00	11.00	12.00	11.00
	19-27			12.00	11.00	12.00	11.00	12.00	11.00
	35-59			12.00	11.00	12.00	11.00	12.00	11.00
	67-75			11.75	10.75	11.75	10.75	11.75	10.75
	83			11.75	10.75	11.75	10.75	11.75	10.75
	91			11.75	10.75	11.75	10.75	11.75	10.75
	99-107			NS	NS	NS	NS	NS	NS
	115			NS	NS	NS	NS	NS	NS
	123-179			11.00	10.00	11.00	10.00	11.00	10.00
	187			NS	NS	NS	NS	NS	NS
	195-219			NS	NS	NS	NS	NS	NS
	227			NS	NS	NS	NS	NS	NS
	231			NS	NS	NS	NS	NS	NS
	235			NS	NS	NS	NS	NS	NS
6 GHz WiFi (80MHz BW) SP	7			12.00	11.00	12.00	11.00	12.00	11.00
	23			12.00	11.00	12.00	11.00	12.00	11.00
	39-55			12.00	11.00	12.00	11.00	12.00	11.00
	71			11.75	10.75	11.75	10.75	11.75	10.75
	87			11.75	10.75	11.75	10.75	11.75	10.75
	103			NS	NS	NS	NS	NS	NS
	119			NS	NS	NS	NS	NS	NS
	135-167			11.00	10.00	11.00	10.00	11.00	10.00
	183			NS	NS	NS	NS	NS	NS
	199			NS	NS	NS	NS	NS	NS
	215			NS	NS	NS	NS	NS	NS
	231			NS	NS	NS	NS	NS	NS
	235			NS	NS	NS	NS	NS	NS
	239			NS	NS	NS	NS	NS	NS
	243			NS	NS	NS	NS	NS	NS
6 GHz WiFi (160MHz BW) SP	15			12.00	11.00	12.00	11.00	12.00	11.00
	47			12.00	11.00	12.00	11.00	12.00	11.00
	79			11.75	10.75	11.75	10.75	11.75	10.75
	111			NS	NS	NS	NS	NS	NS
	143			11.00	10.00	11.00	10.00	11.00	10.00
	175			NS	NS	NS	NS	NS	NS
	207			NS	NS	NS	NS	NS	NS

Mode	IEEE 802.11 (Maximum in dBm) - Antenna WF8								
	Channel	SISO	SISO	SISO	SISO	MIMO CDD	MIMO CDD	MIMO SDM	MIMO SDM
		a (Maximum)	a (Nominal)	ax SU (Maximum)	ax SU (Nominal)	ax SU (Maximum)	ax SU (Nominal)	ax SU (Maximum)	ax SU (Nominal)
6 GHz WiFi (20MHz BW) LP	2	NS	NS	NS	NS	NS	NS	NS	NS
	1	8.80	7.80	8.90	7.90	1.40	0.40	4.30	3.30
	5	9.80	8.80	9.70	8.70	2.40	1.40	5.30	4.30
	9-29	9.70	8.70	9.70	8.70	2.30	1.30	5.20	4.20
	33-61	8.70	7.70	8.80	7.80	2.70	1.70	5.70	4.70
	65-85	9.60	8.60	9.70	8.70	2.70	1.70	5.70	4.70
	89	9.90	8.90	9.90	8.90	2.90	1.90	5.90	4.90
	93	9.70	8.70	9.90	8.90	2.80	1.80	5.80	4.80
	97-113	9.40	8.40	9.50	8.50	2.70	1.70	5.70	4.70
	117-181	8.40	7.40	8.30	7.30	1.90	0.90	4.90	3.90
	185	8.40	7.40	8.70	7.70	2.10	1.10	5.10	4.10
	189-225	9.00	8.00	9.10	8.10	2.10	1.10	5.10	4.10
	229	9.10	8.10	9.30	8.30	2.30	1.30	5.30	4.30
	233	8.30	7.30	8.30	7.30	1.30	0.30	3.30	2.30
	237			11.80	10.80	4.50	3.50	7.40	6.40
6 GHz WiFi (40MHz BW) LP	3			12.00	11.00	5.20	4.20	8.10	7.10
	11			12.00	11.00	5.30	4.30	8.20	7.20
	19-27			12.00	11.00	5.60	4.60	8.60	7.60
	35-59			11.75	10.75	5.70	4.70	8.70	7.70
	67-75			11.75	10.75	5.60	4.60	8.60	7.60
	83			11.75	10.75	5.80	4.80	8.80	7.80
	91			11.75	10.75	5.60	4.60	8.60	7.60
	99-107			11.00	10.00	5.10	4.10	8.10	7.10
	115			11.00	10.00	5.10	4.10	8.10	7.10
	123-179			11.00	10.00	5.10	4.10	8.10	7.10
	187			10.75	9.75	4.90	3.90	7.90	6.90
	195-219			10.75	9.75	5.10	4.10	8.10	7.10
	227			10.75	9.75	5.10	4.10	8.10	7.10
	231			12.00	11.00	7.40	6.40	10.30	9.30
	235			12.00	11.00	8.20	7.20	11.10	10.10
6 GHz WiFi (80MHz BW) LP	7			12.00	11.00	8.70	7.70	11.70	10.70
	23			12.00	11.00	8.70	7.70	11.70	10.70
	39-55			12.00	11.00	8.70	7.70	11.70	10.70
	71			11.75	10.75	8.60	7.60	11.60	10.60
	87			11.75	10.75	8.70	7.70	11.70	10.70
	103			11.00	10.00	8.70	7.70	11.00	10.00
	119			11.00	10.00	8.00	7.00	11.00	10.00
	135-167			11.00	10.00	8.00	7.00	11.00	10.00
	183			11.00	10.00	7.80	6.80	10.80	9.80
	199			10.75	9.75	8.00	7.00	10.75	9.75
	215			10.75	9.75	8.00	7.00	10.75	9.75
	231			12.00	11.00	10.20	9.20	12.00	11.00
	235			12.00	11.00	11.30	10.30	12.00	11.00
	239			11.75	10.75	11.60	10.60	11.75	10.75
	243			11.00	10.00	10.80	9.80	11.00	10.00
6 GHz WiFi (160MHz BW) LP	15			11.00	10.00	10.80	9.80	11.00	10.00
	47			11.00	10.00	10.80	9.80	11.00	10.00
	79			11.00	10.00	10.50	9.50	11.00	10.00
	111			11.00	10.00	10.50	9.50	11.00	10.00
	143			11.00	10.00	10.50	9.50	11.00	10.00
	175			11.00	10.00	10.50	9.50	11.00	10.00
	207			10.75	9.75	10.75	9.75	10.75	9.75

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Mode	IEEE 802.11 (Maximum in dBm) - Antenna WF8								
	Channel	SISO	SISO	SISO	SISO	MIMO CDD	MIMO CDD	MIMO SDM	MIMO SDM
		a (Maximum)	a (Nominal)	ax SU (Maximum)	ax SU (Nominal)	ax SU (Maximum)	ax SU (Nominal)	ax SU (Maximum)	ax SU (Nominal)
6 GHz WiFi (20MHz BW) VLP	2	NS	NS	NS	NS	NS	NS	NS	NS
	1	NS	NS	NS	NS	NS	NS	NS	NS
	5	NS	NS	NS	NS	NS	NS	NS	NS
	9-29	NS	NS	NS	NS	NS	NS	NS	NS
	33-61	4.70	3.70	4.80	3.80	-1.30	-2.30	1.70	0.70
	65-85	5.60	4.60	5.70	4.70	-1.30	-2.30	1.70	0.70
	89	5.90	4.90	5.90	4.90	-1.10	-2.10	1.90	0.90
	93	5.70	4.70	5.90	4.90	-1.20	-2.20	1.80	0.80
	97-113	5.40	4.40	5.50	4.50	-1.30	-2.30	1.70	0.70
	117-181	4.40	3.40	4.30	3.30	-2.10	-3.10	0.90	-0.10
	185	4.40	3.40	4.70	3.70	-1.90	-2.90	1.10	0.10
	189-225	5.00	4.00	5.10	4.10	-1.90	-2.90	1.10	0.10
	229	5.10	4.10	5.30	4.30	-1.70	-2.70	1.30	0.30
	233	4.30	3.30	4.30	3.30	-2.70	-3.70	0.30	-0.70
6 GHz WiFi (40MHz BW) VLP	3			NS	NS	NS	NS	NS	NS
	11			NS	NS	NS	NS	NS	NS
	19-27			NS	NS	NS	NS	NS	NS
	35-59			7.80	6.80	1.60	0.60	4.60	3.60
	67-75			8.70	7.70	1.70	0.70	4.70	3.70
	83			8.80	7.80	1.60	0.60	4.60	3.60
	91			8.80	7.80	1.80	0.80	4.80	3.80
	99-107			8.40	7.40	1.60	0.60	4.60	3.60
	115			7.60	6.60	1.10	0.10	4.10	3.10
	123-179			7.50	6.50	1.10	0.10	4.10	3.10
	187			7.60	6.60	0.90	-0.10	3.90	2.90
	195-219			8.10	7.10	1.10	0.10	4.10	3.10
	227			8.20	7.20	1.10	0.10	4.10	3.10
	7			NS	NS	NS	NS	NS	NS
6 GHz WiFi (80MHz BW) VLP	23			NS	NS	NS	NS	NS	NS
	39-55			10.90	9.90	4.70	3.70	7.70	6.70
	71			11.75	10.75	4.60	3.60	7.60	6.60
	87			11.75	10.75	4.70	3.70	7.70	6.70
	103			11.00	10.00	4.70	3.70	7.70	6.70
	119			10.60	9.60	4.00	3.00	7.00	6.00
	135-167			10.40	9.40	4.00	3.00	7.00	6.00
	183			10.40	9.40	3.80	2.80	6.80	5.80
	199			10.75	9.75	4.00	3.00	7.00	6.00
	215			10.75	9.75	4.00	3.00	7.00	6.00
	15			NS	NS	NS	NS	NS	NS
	47			12.00	11.00	7.30	6.30	9.50	8.50
	79			11.75	10.75	7.60	6.60	9.50	8.50
	111			11.00	10.00	6.80	5.80	8.90	7.90
6 GHz WiFi (160MHz BW) VLP	143			11.00	10.00	6.80	5.80	8.90	7.90
	175			11.00	10.00	6.50	5.50	8.70	7.70
	207			10.75	9.75	6.90	5.90	8.90	7.90

Mode	IEEE 802.11 (Maximum in dBm) - Antenna WF7								
	Channel	SISO	SISO	SISO	SISO	MIMO CDD	MIMO CDD	MIMO SDM	MIMO SDM
		a (Maximum)	a (Nominal)	ax SU (Maximum)	ax SU (Nominal)	ax SU (Maximum)	ax SU (Nominal)	ax SU (Maximum)	ax SU (Nominal)
6 GHz WiFi (20MHz BW) SP	2	NS	NS	NS	NS	NS	NS	NS	NS
	1	14.50	13.50	14.50	13.50	14.50	13.50	14.50	13.50
	5	14.50	13.50	14.50	13.50	14.50	13.50	14.50	13.50
	9-29	14.50	13.50	14.50	13.50	14.50	13.50	14.50	13.50
	33-61	14.50	13.50	14.50	13.50	14.50	13.50	14.50	13.50
	65-85	14.75	13.75	14.75	13.75	14.75	13.75	14.75	13.75
	89	14.75	13.75	14.75	13.75	14.75	13.75	14.75	13.75
	93	14.75	13.75	14.75	13.75	14.75	13.75	14.75	13.75
	97-113	NS	NS	NS	NS	NS	NS	NS	NS
	117-181	13.75	12.75	13.75	12.75	13.75	12.75	13.75	12.75
	185	NS	NS	NS	NS	NS	NS	NS	NS
	189-225	NS	NS	NS	NS	NS	NS	NS	NS
	229	NS	NS	NS	NS	NS	NS	NS	NS
	233	NS	NS	NS	NS	NS	NS	NS	NS
6 GHz WiFi (40MHz BW) SP	3			14.50	13.50	14.50	13.50	14.50	13.50
	11			14.50	13.50	14.50	13.50	14.50	13.50
	19-27			14.50	13.50	14.50	13.50	14.50	13.50
	35-59			14.50	13.50	14.50	13.50	14.50	13.50
	67-75			14.75	13.75	14.75	13.75	14.75	13.75
	83			14.75	13.75	14.75	13.75	14.75	13.75
	91			14.75	13.75	14.75	13.75	14.75	13.75
	99-107			NS	NS	NS	NS	NS	NS
	115			NS	NS	NS	NS	NS	NS
	123-179			13.75	12.75	13.75	12.75	13.75	12.75
	187			NS	NS	NS	NS	NS	NS
	195-219			NS	NS	NS	NS	NS	NS
	227			NS	NS	NS	NS	NS	NS
	7			14.50	13.50	14.50	13.50	14.50	13.50
6 GHz WiFi (80MHz BW) SP	23			14.50	13.50	14.50	13.50	14.50	13.50
	39-55			14.50	13.50	14.50	13.50	14.50	13.50
	71			14.75	13.75	14.75	13.75	14.75	13.75
	87			14.75	13.75	14.75	13.75	14.75	13.75
	103			NS	NS	NS	NS	NS	NS
	119			NS	NS	NS	NS	NS	NS
	135-167			13.75	12.75	13.75	12.75	13.75	12.75
	183			NS	NS	NS	NS	NS	NS
	199			NS	NS	NS	NS	NS	NS
	215			NS	NS	NS	NS	NS	NS
	15			14.50	13.50	14.50	13.50	14.50	13.50
	47			14.50	13.50	14.50	13.50	14.50	13.50
	79			14.75	13.75	14.75	13.75	14.75	13.75
	111			NS	NS	NS	NS	NS	NS
6 GHz WiFi (160MHz BW) SP	143			13.75	12.75	13.75	12.75	13.75	12.75
	175			NS	NS	NS	NS	NS	NS
	207			NS	NS	NS	NS	NS	NS

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Mode	IEEE 802.11 (Maximum in dBm) - Antenna WF7								
	Channel	SISO	SISO	SISO	SISO	MIMO CDD	MIMO CDD	MIMO SDM	MIMO SDM
		a (Maximum)	a (Nominal)	ax SU (Maximum)	ax SU (Nominal)	ax SU (Maximum)	ax SU (Nominal)	ax SU (Maximum)	ax SU (Nominal)
6 GHz WiFi (20MHz BW) LP	2	NS	NS	NS	NS	NS	NS	NS	NS
	1	6.30	5.30	6.30	5.30	1.40	0.40	4.30	3.30
	5	7.30	6.30	7.40	6.40	2.40	1.40	5.30	4.30
	9-29	7.20	6.20	7.20	6.20	2.30	1.30	5.20	4.20
	33-61	8.60	7.60	8.70	7.70	2.70	1.70	5.70	4.70
	65-85	7.80	6.80	7.90	6.90	2.70	1.70	5.70	4.70
	89	7.90	6.90	8.10	7.10	2.90	1.90	5.90	4.90
	93	7.90	6.90	7.90	6.90	2.80	1.80	5.80	4.80
	97-113	7.90	6.90	8.10	7.10	2.70	1.70	5.70	4.70
	117-181	7.60	6.60	7.60	6.60	1.90	0.90	4.90	3.90
	185	7.40	6.40	7.50	6.50	2.10	1.10	5.10	4.10
	189-225	7.00	6.00	7.30	6.30	2.10	1.10	5.10	4.10
	229	7.30	6.30	7.50	6.50	2.30	1.30	5.30	4.30
	233	6.60	5.60	6.70	5.70	1.30	0.30	4.30	3.30
	3			9.50	8.50	4.50	3.50	7.40	6.40
6 GHz WiFi (40MHz BW) LP	11			10.10	9.10	5.20	4.20	8.10	7.10
	19-27			10.30	9.30	5.30	4.30	8.20	7.20
	35-59			11.60	10.60	5.60	4.60	8.60	7.60
	67-75			10.80	9.80	5.70	4.70	8.70	7.70
	83			10.70	9.70	5.60	4.60	8.60	7.60
	91			11.00	10.00	5.80	4.80	8.80	7.80
	99-107			11.10	10.10	5.60	4.60	8.60	7.60
	115			10.70	9.70	5.10	4.10	8.10	7.10
	123-179			10.70	9.70	5.10	4.10	8.10	7.10
	187			10.30	9.30	4.90	3.90	7.90	6.90
	195-219			10.30	9.30	5.10	4.10	8.10	7.10
	227			10.30	9.30	5.10	4.10	8.10	7.10
	7			12.30	11.30	7.40	6.40	10.30	9.30
	23			13.10	12.10	8.20	7.20	11.10	10.10
	39-55			14.50	13.50	8.70	7.70	11.70	10.70
6 GHz WiFi (80MHz BW) LP	71			13.70	12.70	8.60	7.60	11.60	10.60
	87			13.80	12.80	8.70	7.70	11.70	10.70
	103			14.00	13.00	8.70	7.70	11.70	10.70
	119			13.60	12.60	8.00	7.00	11.00	10.00
	135-167			13.75	12.75	8.00	7.00	11.00	10.00
	183			13.30	12.30	7.80	6.80	10.80	9.80
	199			13.20	12.20	8.00	7.00	11.00	10.00
	215			13.40	12.40	8.00	7.00	11.00	10.00
	15			14.50	13.50	10.20	9.20	13.10	12.10
	47			14.50	13.50	11.30	10.30	14.30	13.30
	79			14.75	13.75	11.60	10.60	14.60	13.60
	111			14.00	13.00	10.80	9.80	13.80	12.80
	143			13.75	12.75	10.80	9.80	13.75	12.75
	175			13.75	12.75	10.50	9.50	13.50	12.50
	207			13.75	12.75	10.90	9.90	13.75	12.75

Mode	IEEE 802.11 (Maximum in dBm) - Antenna WF7								
	Channel	SISO	SISO	SISO	SISO	MIMO CDD	MIMO CDD	MIMO SDM	MIMO SDM
		a (Maximum)	a (Nominal)	ax SU (Maximum)	ax SU (Nominal)	ax SU (Maximum)	ax SU (Nominal)	ax SU (Maximum)	ax SU (Nominal)
6 GHz WiFi (20MHz BW) VLP	2	NS	NS	NS	NS	NS	NS	NS	NS
	1	NS	NS	NS	NS	NS	NS	NS	NS
	5	NS	NS	NS	NS	NS	NS	NS	NS
	9-29	NS	NS	NS	NS	NS	NS	NS	NS
	33-61	4.60	3.60	4.70	3.70	-1.30	-2.30	1.70	0.70
	65-85	3.80	2.80	3.90	2.90	-1.30	-2.30	1.70	0.70
	89	3.90	2.90	4.10	3.10	-1.10	-2.10	1.90	0.90
	93	3.90	2.90	3.90	2.90	-1.20	-2.20	1.80	0.80
	97-113	3.90	2.90	4.10	3.10	-1.30	-2.30	1.70	0.70
	117-181	3.60	2.60	3.60	2.60	-2.10	-3.10	0.90	-0.10
	185	3.40	2.40	3.50	2.50	-1.90	-2.90	1.10	0.10
	189-225	3.00	2.00	3.30	2.30	-1.90	-2.90	1.10	0.10
	229	3.30	2.30	3.50	2.50	-1.70	-2.70	1.30	0.30
	233	2.60	1.60	2.70	1.70	-2.70	-3.70	0.30	-0.70
	3			NS	NS	NS	NS	NS	NS
6 GHz WiFi (40MHz BW) VLP	11			NS	NS	NS	NS	NS	NS
	19-27			NS	NS	NS	NS	NS	NS
	35-59			7.60	6.60	1.60	0.60	4.60	3.60
	67-75			6.80	5.80	1.70	0.70	4.70	3.70
	83			6.70	5.70	1.60	0.60	4.60	3.60
	91			7.00	6.00	1.80	0.80	4.80	3.80
	99-107			7.10	6.10	1.60	0.60	4.60	3.60
	115			6.70	5.70	1.10	0.10	4.10	3.10
	123-179			6.70	5.70	1.10	0.10	4.10	3.10
	187			6.30	5.30	0.90	-0.10	3.90	2.90
	195-219			6.30	5.30	1.10	0.10	4.10	3.10
	227			6.30	5.30	1.10	0.10	4.10	3.10
	7			NS	NS	NS	NS	NS	NS
	23			NS	NS	NS	NS	NS	NS
	39-55			10.70	9.70	4.70	3.70	7.70	6.70
6 GHz WiFi (80MHz BW) VLP	71			9.70	8.70	4.60	3.60	7.60	6.60
	87			9.80	8.80	4.70	3.70	7.70	6.70
	103			10.10	9.10	4.70	3.70	7.70	6.70
	119			9.60	8.60	4.00	3.00	7.00	6.00
	135-167			9.80	8.80	4.00	3.00	7.00	6.00
	183			9.30	8.30	3.80	2.80	6.80	5.80
	199			9.20	8.20	4.00	3.00	7.00	6.00
	215			9.40	8.40	4.00	3.00	7.00	6.00
	15			NS	NS	NS	NS	NS	NS
	47			12.50	11.50	7.30	6.30	9.50	8.50
	79			11.60	10.60	7.60	6.60	9.50	8.50
	111			11.50	10.50	6.80	5.80	8.90	7.90
	143			11.50	10.50	6.80	5.80	8.90	7.90
	175			11.10	10.10	6.50	5.50	8.70	7.70
	207			11.10	10.10	6.90	5.90	8.90	7.90

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1.3.2 Bluetooth Maximum Output Power

Note: In TxBF operations, each antenna transmits at maximum allowed powers.

Bluetooth Mode/Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna WF8	Modulated Average (iPA) Single Tx Chain (dBm) Antenna WF8	Modulated Average (ePA) TXBF (dBm) Antenna WF8	Modulated Average (iPA) TXBF (dBm) Antenna WF8
BDR	Maximum	16.00	9.50	16.00	9.50
	Nominal	15.00	8.50	15.00	8.50
EDR	Maximum	16.50	6.50	13.50	6.50
	Nominal	15.50	5.50	12.50	5.50
LE Adv	Maximum	16.00	9.50	16.00	9.50
	Nominal	15.00	8.50	15.00	8.50
LE1M	Maximum	16.00	9.50	16.00	9.50
	Nominal	15.00	8.50	15.00	8.50
LE2M	Maximum	16.00	9.50	16.00	9.50
	Nominal	15.00	8.50	15.00	8.50
HDR4	Maximum	14.50	6.50	14.50	6.50
	Nominal	13.50	5.50	13.50	5.50
HDR8	Maximum	14.50	6.50	14.50	6.50
	Nominal	13.50	5.50	13.50	5.50
XHDR HDRPS 2	Maximum	14.50	6.50	14.50	6.50
	Nominal	13.50	5.50	13.50	5.50
XHDRP HDRPM 4/6/8	Maximum	14.50	6.50	14.50	6.50
	Nominal	13.50	5.50	13.50	5.50
XHDRPM HDRPM 12/16	Maximum	12.50	3.50	12.50	3.50
	Nominal	11.50	2.50	11.50	2.50
XHDRPL HDRPL 8/12/16	Maximum	NS	NS	NS	NS
	Nominal	NS	NS	NS	NS
HDRPL 24/32	Maximum	NS	NS	NS	NS
	Nominal	NS	NS	NS	NS
HDT 2/3	Maximum	14.50	6.50	14.50	6.50
	Nominal	13.50	5.50	13.50	5.50
HDT4	Maximum	14.50	6.50	14.50	6.50
	Nominal	13.50	5.50	13.50	5.50
HDT 6/8	Maximum	12.50	3.50	12.50	3.50
	Nominal	11.50	2.50	11.50	2.50
CS	Maximum	NS	NS	NS	NS
	Nominal	NS	NS	NS	NS
LELR	Maximum	12.75	9.50	9.75	9.50
	Nominal	11.75	8.50	8.75	8.50

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Bluetooth Mode/Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna WF7	Modulated Average (iPA) Single Tx Chain (dBm) Antenna WF7	Modulated Average (ePA) TXBF (dBm) Antenna WF7	Modulated Average (iPA) TXBF (dBm) Antenna WF7
BDR	Maximum	17.50	9.00	17.00	9.00
	Nominal	16.50	8.00	16.00	8.00
EDR	Maximum	16.50	6.00	13.50	6.00
	Nominal	15.50	5.00	12.50	5.00
LE Adv	Maximum	17.50	9.00	17.50	9.00
	Nominal	16.50	8.00	16.50	8.00
LE1M	Maximum	17.50	9.00	17.50	9.00
	Nominal	16.50	8.00	16.50	8.00
LE2M	Maximum	17.50	9.00	17.50	9.00
	Nominal	16.50	8.00	16.50	8.00
HDR4	Maximum	14.00	6.00	14.00	6.00
	Nominal	13.00	5.00	13.00	5.00
HDR8	Maximum	14.00	6.00	14.00	6.00
	Nominal	13.00	5.00	13.00	5.00
XHDR HDRPS 2	Maximum	14.00	6.00	14.00	6.00
	Nominal	13.00	5.00	13.00	5.00
XHDRP HDRPM 4/6/8	Maximum	14.00	6.00	14.00	6.00
	Nominal	13.00	5.00	13.00	5.00
XHDRPM HDRPM 12/16	Maximum	12.00	3.00	12.00	3.00
	Nominal	11.00	2.00	11.00	2.00
XHDRPL HDRPL 8/12/16	Maximum	NS	NS	NS	NS
	Nominal	NS	NS	NS	NS
HDRPL 24/32	Maximum	NS	NS	NS	NS
	Nominal	NS	NS	NS	NS
HDT 2/3	Maximum	14.00	6.00	14.00	6.00
	Nominal	13.00	5.00	13.00	5.00
HDT4	Maximum	14.00	6.00	14.00	6.00
	Nominal	13.00	5.00	13.00	5.00
HDT 6/8	Maximum	12.00	3.00	12.00	3.00
	Nominal	11.00	2.00	11.00	2.00
CS	Maximum	NS	NS	NS	NS
	Nominal	NS	NS	NS	NS
LELR	Maximum	12.75	9.00	9.75	9.00
	Nominal	11.75	8.00	8.75	8.00

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Bluetooth Mode/Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna WF9	Modulated Average (iPA) Single Tx Chain (dBm) Antenna WF9	Modulated Average (ePA) TXBF (dBm) Antenna WF9	Modulated Average (iPA) TXBF (dBm) Antenna WF9
BDR	Maximum	17.50	9.00	17.00	9.00
	Nominal	16.50	8.00	16.00	8.00
EDR	Maximum	16.50	6.00	13.50	6.00
	Nominal	15.50	5.00	12.50	5.00
LE Adv	Maximum	17.50	9.00	17.50	9.00
	Nominal	16.50	8.00	16.50	8.00
LE1M	Maximum	17.50	9.00	17.50	9.00
	Nominal	16.50	8.00	16.50	8.00
LE2M	Maximum	17.50	9.00	17.50	9.00
	Nominal	16.50	8.00	16.50	8.00
HDR4	Maximum	14.00	6.00	14.00	6.00
	Nominal	13.00	5.00	13.00	5.00
HDR8	Maximum	14.00	6.00	14.00	6.00
	Nominal	13.00	5.00	13.00	5.00
XHDR HDRPS 2	Maximum	14.00	6.00	14.00	6.00
	Nominal	13.00	5.00	13.00	5.00
XHDRP HDRPM 4/6/8	Maximum	14.00	6.00	14.00	6.00
	Nominal	13.00	5.00	13.00	5.00
XHDRPM HDRPM 12/16	Maximum	12.00	3.00	12.00	3.00
	Nominal	11.00	2.00	11.00	2.00
XHDRPL HDRPL 8/12/16	Maximum	NS	NS	NS	NS
	Nominal	NS	NS	NS	NS
HDRPL 24/32	Maximum	NS	NS	NS	NS
	Nominal	NS	NS	NS	NS
HDT 2/3	Maximum	14.00	6.00	14.00	6.00
	Nominal	13.00	5.00	13.00	5.00
HDT4	Maximum	14.00	6.00	14.00	6.00
	Nominal	13.00	5.00	13.00	5.00
HDT 6/8	Maximum	12.00	3.00	12.00	3.00
	Nominal	11.00	2.00	11.00	2.00
CS	Maximum	NS	NS	NS	NS
	Nominal	NS	NS	NS	NS
LELR	Maximum	12.75	9.00	9.75	9.00
	Nominal	11.75	8.00	8.75	8.00

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1.3.3 802.15.4 Maximum Output Power

Mode/Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna WF8	Modulated Average (iPA) Single Tx Chain (dBm) Antenna WF8
802.15.4	Maximum	18.00	9.50
	Nominal	17.00	8.50

Mode/Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna WF7	Modulated Average (iPA) Single Tx Chain (dBm) Antenna WF7
802.15.4	Maximum	19.50	9.00
	Nominal	18.50	8.00

Mode/Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna WF9	Modulated Average (iPA) Single Tx Chain (dBm) Antenna WF9
802.15.4	Maximum	19.25	9.00
	Nominal	18.25	8.00

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1.3.4 NB UNII Maximum Output Power

Note: In TxBF operations, each antenna transmits at maximum allowed powers.

NB UNII-1 Mode/Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna WFSB	Modulated Average (iPA) Single Tx Chain (dBm) Antenna WFSB	Modulated Average (ePA) TXBF (dBm) Antenna WFSB	Modulated Average (iPA) TXBF (dBm) Antenna WFSB
BDR	Maximum	10.00	6.00	7.00	6.00
	Nominal	9.00	5.00	6.00	5.00
EDR	Maximum	NS	NS	NS	NS
	Nominal	NS	NS	NS	NS
LE Adv	Maximum	10.25	6.00	7.25	6.00
	Nominal	9.25	5.00	6.25	5.00
LE1M	Maximum	10.25	6.00	7.25	6.00
	Nominal	9.25	5.00	6.25	5.00
LE2M	Maximum	11.00	6.00	8.00	6.00
	Nominal	10.00	5.00	7.00	5.00
HDR4	Maximum	12.25	3.00	9.25	3.00
	Nominal	11.25	2.00	8.25	2.00
HDR8	Maximum	14.00	3.00	11.50	3.00
	Nominal	13.00	2.00	10.50	2.00
XHDR HDRPS 2	Maximum	12.25	3.00	9.25	3.00
	Nominal	11.25	2.00	8.25	2.00
XHDRP HDRPM 4/6/8	Maximum	14.00	3.00	12.00	3.00
	Nominal	13.00	2.00	11.00	2.00
XHDRPM HDRPM 12/16	Maximum	12.00	0.00	12.00	0.00
	Nominal	11.00	-1.00	11.00	-1.00
XHDRPL HDRPL 8/12/16	Maximum	14.00	3.00	14.00	3.00
	Nominal	13.00	2.00	13.00	2.00
HDRPL 24/32	Maximum	12.00	0.00	12.00	0.00
	Nominal	11.00	-1.00	11.00	-1.00
HDT 2/3	Maximum	12.50	3.00	9.50	3.00
	Nominal	11.50	2.00	8.50	2.00
HDT4	Maximum	12.50	3.00	9.50	3.00
	Nominal	11.50	2.00	8.50	2.00
HDT 6/8	Maximum	12.00	0.00	9.25	0.00
	Nominal	11.00	-1.00	8.25	-1.00
CS	Maximum	NS	NS	NS	NS
	Nominal	NS	NS	NS	NS
LELR	Maximum	NS	NS	NS	NS
	Nominal	NS	NS	NS	NS

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NB UNII-3 Mode/Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna WF5B	Modulated Average (iPA) Single Tx Chain (dBm) Antenna WF5B	Modulated Average (ePA) TXBF (dBm) Antenna WF5B	Modulated Average (iPA) TXBF (dBm) Antenna WF5B
BDR	Maximum	19.50	6.00	19.50	6.00
	Nominal	18.50	5.00	18.50	5.00
EDR	Maximum	NS	NS	NS	NS
	Nominal	NS	NS	NS	NS
LE Adv	Maximum	19.50	6.00	19.50	6.00
	Nominal	18.50	5.00	18.50	5.00
LE1M	Maximum	19.50	6.00	19.50	6.00
	Nominal	18.50	5.00	18.50	5.00
LE2M	Maximum	19.50	6.00	19.50	6.00
	Nominal	18.50	5.00	18.50	5.00
HDR4	Maximum	14.50	3.00	14.50	3.00
	Nominal	13.50	2.00	13.50	2.00
HDR8	Maximum	14.50	3.00	14.50	3.00
	Nominal	13.50	2.00	13.50	2.00
XHDR HDRPS 2	Maximum	14.50	3.00	14.50	3.00
	Nominal	13.50	2.00	13.50	2.00
XHDRP HDRPM 4/6/8	Maximum	14.50	3.00	14.50	3.00
	Nominal	13.50	2.00	13.50	2.00
XHDRPM HDRPM 12/16	Maximum	12.50	0.00	12.50	0.00
	Nominal	11.50	-1.00	11.50	-1.00
XHDRPL HDRPL 8/12/16	Maximum	14.50	3.00	14.50	3.00
	Nominal	13.50	2.00	13.50	2.00
HDRPL 24/32	Maximum	12.50	0.00	12.50	0.00
	Nominal	11.50	-1.00	11.50	-1.00
HDT 2/3	Maximum	14.50	3.00	14.50	3.00
	Nominal	13.50	2.00	13.50	2.00
HDT4	Maximum	14.50	3.00	14.50	3.00
	Nominal	13.50	2.00	13.50	2.00
HDT 6/8	Maximum	12.50	0.00	12.50	0.00
	Nominal	11.50	-1.00	11.50	-1.00
CS	Maximum	NS	NS	NS	NS
	Nominal	NS	NS	NS	NS
LELR	Maximum	NS	NS	NS	NS
	Nominal	NS	NS	NS	NS

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NB UNII-5 Mode/Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna WF5B	Modulated Average (iPA) Single Tx Chain (dBm) Antenna WF5B	Modulated Average (ePA) TXBF (dBm) Antenna WF5B	Modulated Average (iPA) TXBF (dBm) Antenna WF5B
BDR	Maximum	-8.00	-8.00	-14.00	-14.00
	Nominal	-9.00	-9.00	-15.00	-15.00
EDR	Maximum	NS	NS	NS	NS
	Nominal	NS	NS	NS	NS
LE Adv	Maximum	-8.00	-8.00	-13.50	-13.50
	Nominal	-9.00	-9.00	-14.50	-14.50
LE1M	Maximum	-8.00	-8.00	-13.50	-13.50
	Nominal	-9.00	-9.00	-14.50	-14.50
LE2M	Maximum	-7.00	-7.00	-12.75	-12.75
	Nominal	-8.00	-8.00	-13.75	-13.75
HDR4	Maximum	-5.75	-5.75	-11.50	-11.50
	Nominal	-6.75	-6.75	-12.50	-12.50
HDR8	Maximum	-4.00	-4.00	-9.75	-9.75
	Nominal	-5.00	-5.00	-10.75	-10.75
XHDR HDRPS 2	Maximum	-5.75	-5.75	-11.50	-11.50
	Nominal	-6.75	-6.75	-12.50	-12.50
XHDRP HDRPM 4/6/8	Maximum	-3.00	-3.00	-8.75	-8.75
	Nominal	-4.00	-4.00	-9.75	-9.75
XHDRPM HDRPM 12/16	Maximum	-3.00	-3.00	-8.75	-8.75
	Nominal	-4.00	-4.00	-9.75	-9.75
XHDRPL HDRPL 8/12/16	Maximum	0.00	0.00	-5.75	-5.75
	Nominal	-1.00	-1.00	-6.75	-6.75
HDRPL 24/32	Maximum	-0.25	-0.25	-6.00	-6.00
	Nominal	-1.25	-1.25	-7.00	-7.00
HDT 2/3	Maximum	-5.50	-5.50	-11.25	-11.25
	Nominal	-6.50	-6.50	-12.25	-12.25
HDT4	Maximum	-5.50	-5.50	-11.25	-11.25
	Nominal	-6.50	-6.50	-12.25	-12.25
HDT 6/8	Maximum	-5.75	-5.75	-11.50	-11.50
	Nominal	-6.75	-6.75	-12.50	-12.50
CS	Maximum	NS	NS	NS	NS
	Nominal	NS	NS	NS	NS
LELR	Maximum	NS	NS	NS	NS
	Nominal	NS	NS	NS	NS

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NB UNII-1 Mode/Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna WF8	Modulated Average (iPA) Single Tx Chain (dBm) Antenna WF8	Modulated Average (ePA) TXBF (dBm) Antenna WF8	Modulated Average (iPA) TXBF (dBm) Antenna WF8
BDR	Maximum	10.00	6.00	7.00	6.00
	Nominal	9.00	5.00	6.00	5.00
EDR	Maximum	NS	NS	NS	NS
	Nominal	NS	NS	NS	NS
LE Adv	Maximum	10.25	6.00	7.25	6.00
	Nominal	9.25	5.00	6.25	5.00
LE1M	Maximum	10.25	6.00	7.25	6.00
	Nominal	9.25	5.00	6.25	5.00
LE2M	Maximum	11.00	6.00	8.00	6.00
	Nominal	10.00	5.00	7.00	5.00
HDR4	Maximum	12.25	3.00	9.25	3.00
	Nominal	11.25	2.00	8.25	2.00
HDR8	Maximum	14.50	3.00	11.50	3.00
	Nominal	13.50	2.00	10.50	2.00
XHDR HDRPS 2	Maximum	12.25	3.00	9.25	3.00
	Nominal	11.25	2.00	8.25	2.00
XHDRP HDRPM 4/6/8	Maximum	14.50	3.00	12.00	3.00
	Nominal	13.50	2.00	11.00	2.00
XHDRPM HDRPM 12/16	Maximum	12.50	0.00	12.00	0.00
	Nominal	11.50	-1.00	11.00	-1.00
XHDRPL HDRPL 8/12/16	Maximum	14.50	3.00	14.50	3.00
	Nominal	13.50	2.00	13.50	2.00
HDRPL 24/32	Maximum	12.50	0.00	12.50	0.00
	Nominal	11.50	-1.00	11.50	-1.00
HDT 2/3	Maximum	12.50	3.00	9.50	3.00
	Nominal	11.50	2.00	8.50	2.00
HDT4	Maximum	12.50	3.00	9.50	3.00
	Nominal	11.50	2.00	8.50	2.00
HDT 6/8	Maximum	12.25	0.00	9.25	0.00
	Nominal	11.25	-1.00	8.25	-1.00
CS	Maximum	NS	NS	NS	NS
	Nominal	NS	NS	NS	NS
LELR	Maximum	NS	NS	NS	NS
	Nominal	NS	NS	NS	NS

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NB UNII-3 Mode/Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna WF8	Modulated Average (iPA) Single Tx Chain (dBm) Antenna WF8	Modulated Average (ePA) TXBF (dBm) Antenna WF8	Modulated Average (iPA) TXBF (dBm) Antenna WF8
BDR	Maximum	17.50	5.50	17.50	5.50
	Nominal	16.50	4.50	16.50	4.50
EDR	Maximum	NS	NS	NS	NS
	Nominal	NS	NS	NS	NS
LE Adv	Maximum	17.50	5.50	17.50	5.50
	Nominal	16.50	4.50	16.50	4.50
LE1M	Maximum	17.50	5.50	17.50	5.50
	Nominal	16.50	4.50	16.50	4.50
LE2M	Maximum	17.50	5.50	17.50	5.50
	Nominal	16.50	4.50	16.50	4.50
HDR4	Maximum	14.50	2.50	14.50	2.50
	Nominal	13.50	1.50	13.50	1.50
HDR8	Maximum	14.50	2.50	14.50	2.50
	Nominal	13.50	1.50	13.50	1.50
XHDR HDRPS 2	Maximum	14.50	2.50	14.50	2.50
	Nominal	13.50	1.50	13.50	1.50
XHDRP HDRPM 4/6/8	Maximum	14.50	2.50	14.50	2.50
	Nominal	13.50	1.50	13.50	1.50
XHDRPM HDRPM 12/16	Maximum	12.50	-0.50	12.50	-0.50
	Nominal	11.50	-1.50	11.50	-1.50
XHDRPL HDRPL 8/12/16	Maximum	14.50	2.50	14.50	2.50
	Nominal	13.50	1.50	13.50	1.50
HDRPL 24/32	Maximum	12.50	-0.50	12.50	-0.50
	Nominal	11.50	-1.50	11.50	-1.50
HDT 2/3	Maximum	14.50	2.50	14.50	2.50
	Nominal	13.50	1.50	13.50	1.50
HDT4	Maximum	14.50	2.50	14.50	2.50
	Nominal	13.50	1.50	13.50	1.50
HDT 6/8	Maximum	12.50	-0.50	12.50	-0.50
	Nominal	11.50	-1.50	11.50	-1.50
CS	Maximum	NS	NS	NS	NS
	Nominal	NS	NS	NS	NS
LELR	Maximum	NS	NS	NS	NS
	Nominal	NS	NS	NS	NS

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NB UNII-5 Mode/Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna WF8	Modulated Average (iPA) Single Tx Chain (dBm) Antenna WF8	Modulated Average (ePA) TXBF (dBm) Antenna WF8	Modulated Average (iPA) TXBF (dBm) Antenna WF8
BDR	Maximum	-6.50	-6.50	-13.50	-13.50
	Nominal	-7.50	-7.50	-14.50	-14.50
EDR	Maximum	NS	NS	NS	NS
	Nominal	NS	NS	NS	NS
LE Adv	Maximum	-6.25	-6.25	-13.00	-13.00
	Nominal	-7.25	-7.25	-14.00	-14.00
LE1M	Maximum	-6.25	-6.25	-13.00	-13.00
	Nominal	-7.25	-7.25	-14.00	-14.00
LE2M	Maximum	-5.50	-5.50	-12.25	-12.25
	Nominal	-6.50	-6.50	-13.25	-13.25
HDR4	Maximum	-4.25	-4.25	-11.00	-11.00
	Nominal	-5.25	-5.25	-12.00	-12.00
HDR8	Maximum	-2.50	-2.50	-9.25	-9.25
	Nominal	-3.50	-3.50	-10.25	-10.25
XHDR HDRPS 2	Maximum	-4.25	-4.25	-11.00	-11.00
	Nominal	-5.25	-5.25	-12.00	-12.00
XHDRP HDRPM 4/6/8	Maximum	-1.50	-1.50	-8.25	-8.25
	Nominal	-2.50	-2.50	-9.25	-9.25
XHDRPM HDRPM 12/16	Maximum	-1.25	-1.25	-8.25	-8.25
	Nominal	-2.25	-2.25	-9.25	-9.25
XHDRPL HDRPL 8/12/16	Maximum	1.75	1.75	-5.25	-5.25
	Nominal	0.75	0.75	-6.25	-6.25
HDRPL 24/32	Maximum	1.50	-0.50	-5.50	-5.50
	Nominal	0.50	-1.50	-6.50	-6.50
HDT 2/3	Maximum	-4.00	-4.00	-10.75	-10.75
	Nominal	-5.00	-5.00	-11.75	-11.75
HDT4	Maximum	-3.75	-3.75	-10.75	-10.75
	Nominal	-4.75	-4.75	-11.75	-11.75
HDT 6/8	Maximum	-4.25	-4.25	-11.00	-11.00
	Nominal	-5.25	-5.25	-12.00	-12.00
CS	Maximum	NS	NS	NS	NS
	Nominal	NS	NS	NS	NS
LELR	Maximum	NS	NS	NS	NS
	Nominal	NS	NS	NS	NS

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NB UNII-1 Mode/Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna WF7	Modulated Average (iPA) Single Tx Chain (dBm) Antenna WF7	Modulated Average (ePA) TXBF (dBm) Antenna WF7	Modulated Average (iPA) TXBF (dBm) Antenna WF7
BDR	Maximum	10.00	6.00	7.00	6.00
	Nominal	9.00	5.00	6.00	5.00
EDR	Maximum	NS	NS	NS	NS
	Nominal	NS	NS	NS	NS
LE Adv	Maximum	10.25	6.00	7.25	6.00
	Nominal	9.25	5.00	6.25	5.00
LE1M	Maximum	10.25	6.00	7.25	6.00
	Nominal	9.25	5.00	6.25	5.00
LE2M	Maximum	11.00	6.00	8.00	6.00
	Nominal	10.00	5.00	7.00	5.00
HDR4	Maximum	12.25	3.00	9.25	3.00
	Nominal	11.25	2.00	8.25	2.00
HDR8	Maximum	14.00	3.00	11.50	3.00
	Nominal	13.00	2.00	10.50	2.00
XHDR HDRPS 2	Maximum	12.25	3.00	9.25	3.00
	Nominal	11.25	2.00	8.25	2.00
XHDRP HDRPM 4/6/8	Maximum	14.00	3.00	12.00	3.00
	Nominal	13.00	2.00	11.00	2.00
XHDRPM HDRPM 12/16	Maximum	12.00	0.00	12.00	0.00
	Nominal	11.00	-1.00	11.00	-1.00
XHDRPL HDRPL 8/12/16	Maximum	14.00	3.00	14.00	3.00
	Nominal	13.00	2.00	13.00	2.00
HDRPL 24/32	Maximum	12.00	0.00	12.00	0.00
	Nominal	11.00	-1.00	11.00	-1.00
HDT 2/3	Maximum	12.50	3.00	9.50	3.00
	Nominal	11.50	2.00	8.50	2.00
HDT4	Maximum	12.50	3.00	9.50	3.00
	Nominal	11.50	2.00	8.50	2.00
HDT 6/8	Maximum	12.00	0.00	9.25	0.00
	Nominal	11.00	-1.00	8.25	-1.00
CS	Maximum	NS	NS	NS	NS
	Nominal	NS	NS	NS	NS
LELR	Maximum	NS	NS	NS	NS
	Nominal	NS	NS	NS	NS

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NB UNII-3 Mode/Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna WF7	Modulated Average (iPA) Single Tx Chain (dBm) Antenna WF7	Modulated Average (ePA) TXBF (dBm) Antenna WF7	Modulated Average (iPA) TXBF (dBm) Antenna WF7
BDR	Maximum	18.00	6.00	18.00	6.00
	Nominal	17.00	5.00	17.00	5.00
EDR	Maximum	NS	NS	NS	NS
	Nominal	NS	NS	NS	NS
LE Adv	Maximum	18.00	6.00	18.00	6.00
	Nominal	17.00	5.00	17.00	5.00
LE1M	Maximum	18.00	6.00	18.00	6.00
	Nominal	17.00	5.00	17.00	5.00
LE2M	Maximum	18.00	6.00	18.00	6.00
	Nominal	17.00	5.00	17.00	5.00
HDR4	Maximum	14.50	3.00	14.50	3.00
	Nominal	13.50	2.00	13.50	2.00
HDR8	Maximum	14.50	3.00	14.50	3.00
	Nominal	13.50	2.00	13.50	2.00
XHDR HDRPS 2	Maximum	14.50	3.00	14.50	3.00
	Nominal	13.50	2.00	13.50	2.00
XHDRP HDRPM 4/6/8	Maximum	14.50	3.00	14.50	3.00
	Nominal	13.50	2.00	13.50	2.00
XHDRPM HDRPM 12/16	Maximum	12.50	0.00	12.50	0.00
	Nominal	11.50	-1.00	11.50	-1.00
XHDRPL HDRPL 8/12/16	Maximum	14.50	3.00	14.50	3.00
	Nominal	13.50	2.00	13.50	2.00
HDRPL 24/32	Maximum	12.50	0.00	12.50	0.00
	Nominal	11.50	-1.00	11.50	-1.00
HDT 2/3	Maximum	14.50	3.00	14.50	3.00
	Nominal	13.50	2.00	13.50	2.00
HDT4	Maximum	14.50	3.00	14.50	3.00
	Nominal	13.50	2.00	13.50	2.00
HDT 6/8	Maximum	12.50	0.00	12.50	0.00
	Nominal	11.50	-1.00	11.50	-1.00
CS	Maximum	NS	NS	NS	NS
	Nominal	NS	NS	NS	NS
LELR	Maximum	NS	NS	NS	NS
	Nominal	NS	NS	NS	NS

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NB UNII-5 Mode/Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna WF7	Modulated Average (iPA) Single Tx Chain (dBm) Antenna WF7	Modulated Average (ePA) TXBF (dBm) Antenna WF7	Modulated Average (iPA) TXBF (dBm) Antenna WF7
BDR	Maximum	-7.50	-7.50	-14.00	-14.00
	Nominal	-8.50	-8.50	-15.00	-15.00
EDR	Maximum	NS	NS	NS	NS
	Nominal	NS	NS	NS	NS
LE Adv	Maximum	-7.50	-7.50	-13.50	-13.50
	Nominal	-8.50	-8.50	-14.50	-14.50
LE1M	Maximum	-7.50	-7.50	-13.50	-13.50
	Nominal	-8.50	-8.50	-14.50	-14.50
LE2M	Maximum	-6.50	-6.50	-12.75	-12.75
	Nominal	-7.50	-7.50	-13.75	-13.75
HDR4	Maximum	-5.25	-5.25	-11.50	-11.50
	Nominal	-6.25	-6.25	-12.50	-12.50
HDR8	Maximum	-3.50	-3.50	-9.75	-9.75
	Nominal	-4.50	-4.50	-10.75	-10.75
XHDR HDRPS 2	Maximum	-5.25	-5.25	-11.50	-11.50
	Nominal	-6.25	-6.25	-12.50	-12.50
XHDRP HDRPM 4/6/8	Maximum	-2.50	-2.50	-8.75	-8.75
	Nominal	-3.50	-3.50	-9.75	-9.75
XHDRPM HDRPM 12/16	Maximum	-2.50	-2.50	-8.75	-8.75
	Nominal	-3.50	-3.50	-9.75	-9.75
XHDRPL HDRPL 8/12/16	Maximum	0.50	0.50	-5.75	-5.75
	Nominal	-0.50	-0.50	-6.75	-6.75
HDRPL 24/32	Maximum	0.25	0.00	-6.00	-6.00
	Nominal	-0.75	-1.00	-7.00	-7.00
HDT 2/3	Maximum	-5.00	-5.00	-11.25	-11.25
	Nominal	-6.00	-6.00	-12.25	-12.25
HDT4	Maximum	-5.00	-5.00	-11.25	-11.25
	Nominal	-6.00	-6.00	-12.25	-12.25
HDT 6/8	Maximum	-5.25	-5.25	-11.50	-11.50
	Nominal	-6.25	-6.25	-12.50	-12.50
CS	Maximum	NS	NS	NS	NS
	Nominal	NS	NS	NS	NS
LELR	Maximum	NS	NS	NS	NS
	Nominal	NS	NS	NS	NS

1.4 DUT Antenna Locations

The overall diagonal dimension of the device is > 200 mm. A diagram showing the location of the device antennas can be found in DUT Antenna Diagram & SAR Test Setup Photographs Appendix. Exact antenna dimensions and separation distances are shown in the Technical Descriptions in the FCC filings.

Note: Per FCC KDB Publication 616217 D04v01r01, front side of the device is not required to be evaluated for SAR. All other edges were evaluated for simultaneous transmission analysis.

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1.5 Simultaneous Transmission Capabilities

According to FCC KDB Publication 447498 D04v01, transmitters are considered to be operating simultaneously when there is overlapping transmission, with the exception of transmissions during network hand-offs with maximum hand-off duration less than 30 seconds.

This device contains multiple transmitters that may operate simultaneously, and therefore requires a simultaneous transmission analysis according to FCC KDB Publication 447498 D04v01 4.3.2 procedures.

**Table 1-1
Simultaneous Transmission Scenarios**

No.	Capable Transmit Configuration	Body
1	2.4 GHz Wi-Fi MIMO + WPT	Yes
2	5/6 GHz Wi-Fi MIMO + WPT	Yes
3	2.4 GHz Wi-Fi + 5/6 GHz Wi-Fi + WPT	Yes
4	2.4 GHz Wi-Fi + 5/6 GHz Wi-Fi MIMO + WPT	Yes
5	2.4 GHz Wi-Fi MIMO + 5/6 GHz Wi-Fi + WPT	Yes
6	2.4 GHz Wi-Fi MIMO + 5/6 GHz Wi-Fi MIMO + WPT	Yes
7	2.4 GHz Bluetooth (TxBF) + WPT	Yes
8	NB U-NII (TXBF) + WPT	Yes
9	2.4 GHz Bluetooth + NB U-NII + WPT	Yes
10	2.4 GHz Bluetooth + NB U-NII (TXBF) + WPT	Yes
11	2.4 GHz Bluetooth (TXBF) + NB U-NII + WPT	Yes
12	2.4 GHz Bluetooth (TXBF) + NB U-NII (TXBF) + WPT	Yes
13	2.4 GHz Wi-Fi + 2.4 GHz Bluetooth + WPT*	Yes
14	2.4 GHz Wi-Fi + NB U-NII+ WPT	Yes
15	2.4 GHz Wi-Fi + NB U-NII (TXBF)+ WPT	Yes
16	2.4 GHz Wi-Fi MIMO + NB U-NII+ WPT	Yes
17	2.4 GHz Wi-Fi MIMO + NB U-NII (TXBF)+ WPT	Yes
18	5/6 GHz Wi-Fi + 2.4 GHz Bluetooth+ WPT	Yes
19	5/6 GHz Wi-Fi + 2.4 GHz Bluetooth (TXBF)+ WPT	Yes
20	5/6 GHz Wi-Fi MIMO + 2.4 GHz Bluetooth + WPT	Yes
21	5/6 GHz Wi-Fi MIMO + 2.4 GHz Bluetooth (TXBF)+ WPT	Yes
22	2.4 GHz Wi-Fi + 5/6 GHz Wi-Fi + 2.4 GHz Bluetooth+ WPT*	Yes
23	2.4 GHz Wi-Fi + 5/6 GHz Wi-Fi MIMO + 2.4 GHz Bluetooth+ WPT*	Yes
24	2.4 GHz Wi-Fi + 2.4 GHz Bluetooth + NB U-NII+ WPT*	Yes
25	2.4 GHz Wi-Fi + 2.4 GHz Bluetooth + NB U-NII (TXBF)+ WPT*	Yes
26	2.4 GHz Wi-Fi + 802.15.4+ WPT**	Yes
27	5/6 GHz Wi-Fi + 802.15.4+ WPT	Yes
28	5/6 GHz Wi-Fi MIMO + 802.15.4+ WPT	Yes
29	2.4 GHz Wi-Fi + 5/6 GHz Wi-Fi + 802.15.4+ WPT**	Yes
30	2.4 GHz Wi-Fi + 5/6 GHz Wi-Fi MIMO + 802.15.4+ WPT**	Yes
31	802.15.4 + NB U-NII+ WPT	Yes
32	802.15.4 + NB U-NII (TXBF)+ WPT	Yes
33	2.4 GHz Wi-Fi + 802.15.4 + NB U-NII+ WPT**	Yes
34	2.4 GHz Wi-Fi + 802.15.4 + NB U-NII (TXBF)+ WPT**	Yes

1. *2.4GHz WIFI and 2.4 GHz Bluetooth can transmit simultaneously on different antennas.
2. **2.4 GHz WIFI and 802.15.4 can transmit simultaneously on different antennas.
3. This device supports 2x2 MIMO Tx for WLAN 802.11a/g/n/ac/ax/be. 802.11a/g/n/ac/ax/be supports CDD and STBC and 802.11n/ac/ax/be additionally supports SDM. Each WLAN antenna can transmit independently or together when operating with MIMO.
4. This device supports VoWIFI.

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1.6 Miscellaneous SAR Test Considerations

(A) WIFI/BT

Based on the maximum allowed power for the respective antennas, U-NII-1 was evaluated for Antenna WF7, and U-NII-2A was evaluated for Antenna WF5B and Antenna WF8. Additional testing for U-NII-2A Antenna WF7 and for U-NII-1 Antenna WF5B and Antenna WF8 SAR was not required since all reported SAR was less than 1.2 W/kg per FCC KDB Publication 248227 D01v02r02.

The WLAN/Bluetooth/802.15.4/NB UNII chipset in this device is produced by two different suppliers. The electrically identical modules are manufactured with identical mechanical structures to meet the same specifications and functions. The worst case variant was used for evaluating SAR compliance.

This device supports channel 1-13 for 2.4 GHz WLAN. However, because channel 12/13 targets are not higher than those of channels 1-11, channels 1, 6, and 11 were considered for SAR testing per FCC KDB 248227 D01V02r02.

This device supports IEEE 802.11ac with the following features:

- a) Up to 160 MHz Bandwidth only for 5/6 GHz
- b) 3 Tx antenna output
- c) 256 QAM is supported
- d) TDWR and Band gap channels are supported

This device supports IEEE 802.11ax/be with the following features:

- a) Up to 160 MHz Bandwidth only for 5/6 GHz
- b) Up to 20 MHz Bandwidth only for 2.4 GHz
- c) No aggregate channel configurations
- d) 3 Tx antenna output
- e) Up to 1024 QAM is supported
- f) TDWR and Band gap channels are supported for 5 GHz
- g) MU-MIMO UL Operations are not supported

Per April 2019 TCB Workshop Notes, SAR testing was not required for 802.11ax when applying the initial test configuration procedures of KDB 248227, with 802.11ax considered a higher order 802.11 mode.

Per FCC guidance, SAR was performed using 6.5 GHz SAR probe calibration factors. FCC KDB 648474 and FCC KDB 248227 were followed for test positions, distances, and modes. Per TCB workshop October 2020 notes, 5 channels were tested. Absorbed power density (APD) using a 4cm² averaging area is reported based on SAR measurements. Incident power density is evaluated at 2mm ensuring that the resolution is sufficient such that integrated power density (IPD) between d=2mm and d= λ /5mm is ≥ -1 dB per equipment manufacturer guidance. Power density results are scaled up for uncertainty above 30%.

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1.7 Guidance Applied

- FCC KDB Publication 248227 D01v02r02 (SAR Considerations for 802.11 Devices)
- FCC KDB Publication 447498 D04v01 (General SAR Guidance)
- FCC KDB Publication 865664 D01v01r04, D02v01r02 (SAR Measurements up to 6 GHz)
- FCC KDB Publication 616217 D04v01r02 (Tablet)
- November 2017, October 2018, April 2019, November 2019, October 2020 TCB Workshop Notes (6-8 GHz)
- April 2019 TCB Workshop Notes (IEEE 802.11ax)
- SPEAG DASY6 System Handbook
- SPEAG DASY6 Application Note (Interim Procedures for Devices Operating at 6-10 GHz) (Nov 2021)
- IEEE 1528-2013
- IEC TR 63170:2018
- IEC 62479:2010

1.8 Device Serial Numbers

Several samples with identical hardware were used to support SAR testing. The manufacturer has confirmed that the device(s) tested have the same physical, mechanical, and thermal characteristics and are within operational tolerances expected for production units. The serial numbers used for each test are indicated alongside the results in Section 9.

1.9 Bibliography

Report Type	Report Serial Number
RF Exposure TAS Connectivity Test Report	1C2504170038-02.BCG

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2 INTRODUCTION

The FCC and Innovation, Science, and Economic Development Canada have adopted the guidelines for evaluating the environmental effects of radio frequency (RF) radiation in ET Docket 93-62 on Aug. 6, 1996, and Health Canada Safety Code 6 to protect the public and workers from the potential hazards of RF emissions due to FCC-regulated portable devices. [1]

The safety limits used for the environmental evaluation measurements are based on the criteria published by the American National Standards Institute (ANSI) for localized specific absorption rate (SAR) in IEEE/ANSI C95.1-1992 Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz [3] and Health Canada RF Exposure Guidelines Safety Code 6 [22]. The measurement procedure described in IEEE/ANSI C95.3-2002 Recommended Practice for the Measurement of Potentially Hazardous Electromagnetic Fields - RF and Microwave [4] is used for guidance in measuring the Specific Absorption Rate (SAR) due to the RF radiation exposure from the Equipment Under Test (EUT). These criteria for SAR evaluation are similar to those recommended by the International Committee for Non-Ionizing Radiation Protection (ICNIRP) in Biological Effects and Exposure Criteria for Radiofrequency Electromagnetic Fields,” Report No. Vol 74. SAR is a measure of the rate of energy absorption due to exposure to an RF transmitting source. SAR values have been related to threshold levels for potential biological hazards.

2.1 SAR Definition

Specific Absorption Rate is defined as the time derivative (rate) of the incremental energy (dU) absorbed by (dissipated in) an incremental mass (dm) contained in a volume element (dV) of a given density (ρ). It is also defined as the rate of RF energy absorption per unit mass at a point in an absorbing body (see Equation 2-1).

Equation 2-1
SAR Mathematical Equation

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

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

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

where:

- σ = conductivity of the tissue-simulating material (S/m)
- ρ = mass density of the tissue-simulating material (kg/m³)
- E = Total RMS electric field strength (V/m)

NOTE: The primary factors that control rate of energy absorption were found to be the wavelength of the incident field in relation to the dimensions and geometry of the irradiated organism, the orientation of the organism in relation to the polarity of field vectors, the presence of reflecting surfaces, and whether conductive contact is made by the organism with a ground plane.[6]

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3 DOSIMETRIC ASSESSMENT

3.1 Measurement Procedure

The evaluation was performed using the following procedure compliant to FCC KDB Publication 865664 D01v01r04 and IEEE 1528-2013:

1. The SAR distribution at the exposed side of the head or body was measured at a distance no greater than 5.0 mm from the inner surface of the shell. The area covered the entire dimension of the device-head and body interface, and the horizontal grid resolution was determined per FCC KDB Publication 865664 D01v01r04 (See Table 3-1) and IEEE 1528-2013.
2. The point SAR measurement was taken at the maximum SAR region determined from Step 1 to enable the monitoring of SAR fluctuations/drifts during the 1g/10g cube evaluation. SAR at this fixed point was measured and used as a reference value.
3. Based on the area scan data, the peak of the region with maximum SAR was determined by spline interpolation. Around this point, a volume was assessed according to the measurement resolution and volume size requirements of FCC KDB Publication 865664 D01v01r04 (See Table 3-1) and IEEE 1528-2013. On the basis of this data set, the spatial peak SAR value was evaluated with the following procedure (see references or the DASY manual online for more details):
 - a. SAR values at the inner surface of the phantom are extrapolated from the measured values along the line away from the surface with spacing no greater than that in Table 3-1. The extrapolation was based on a least-squares algorithm. A polynomial of the fourth order was calculated through the points in the z-axis (normal to the phantom shell).
 - b. After the maximum interpolated values were calculated between the points in the cube, the SAR was averaged over the spatial volume (1g or 10g) using a 3D-Spline interpolation algorithm. The 3D-spline is composed of three one-dimensional splines with the “Not a knot” condition (in x, y, and z directions). The volume was then integrated with the trapezoidal algorithm. One thousand points (10 x 10 x 10) were obtained through interpolation, in order to calculate the averaged SAR.
 - c. All neighboring volumes were evaluated until no neighboring volume with a higher average value was found.
4. The SAR reference value, at the same location as step 2, was re-measured after the zoom scan was completed to calculate the SAR drift. If the drift deviated by more than 5%, the SAR test and drift measurements were repeated.

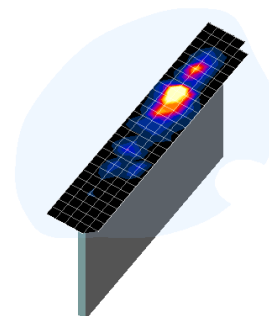


Figure 3-1
Sample SAR Area
Scan

Table 3-1
Area and Zoom Scan Resolutions per FCC KDB Publication 865664 D01v01r04*

Frequency	Maximum Area Scan Resolution (mm) ($\Delta x_{\text{area}}, \Delta y_{\text{area}}$)	Maximum Zoom Scan Resolution (mm) ($\Delta x_{\text{zoom}}, \Delta y_{\text{zoom}}$)	Maximum Zoom Scan Spatial Resolution (mm)			Minimum Zoom Scan Volume (mm) (x,y,z)
			Uniform Grid	Graded Grid		
				$\Delta z_{\text{zoom}}(n)$	$\Delta z_{\text{zoom}}(1)^*$	
≤ 2 GHz	≤ 15	≤ 8	≤ 5	≤ 4	$\leq 1.5^* \Delta z_{\text{zoom}}(n-1)$	≥ 30
2-3 GHz	≤ 12	≤ 5	≤ 5	≤ 4	$\leq 1.5^* \Delta z_{\text{zoom}}(n-1)$	≥ 30
3-4 GHz	≤ 12	≤ 5	≤ 4	≤ 3	$\leq 1.5^* \Delta z_{\text{zoom}}(n-1)$	≥ 28
4-5 GHz	≤ 10	≤ 4	≤ 3	≤ 2.5	$\leq 1.5^* \Delta z_{\text{zoom}}(n-1)$	≥ 25
5-6 GHz	≤ 10	≤ 4	≤ 2	≤ 2	$\leq 1.5^* \Delta z_{\text{zoom}}(n-1)$	≥ 22

*Also compliant to IEEE 1528-2013 Table 6

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4 TEST CONFIGURATION POSITIONS

4.1 Device Holder

The device holder is made out of low-loss POM material having the following dielectric parameters: relative permittivity $\epsilon = 3$ and loss tangent $\delta = 0.02$.

4.2 SAR Testing for Tablet per KDB Publication 616217 D04v01r02

Per FCC KDB Publication 616217 D04v01r02, the back surface and edges of the tablet should be tested for SAR compliance. Body exposure for all §2.1093-Portable devices (including tablets) must be demonstrated at distances not to exceed 5 mm. This separation distance of 5 mm between the tablet and the phantom was used for evaluating SAR compliance. The SAR Exclusion Threshold in KDB 447498 D04v01 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.

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5 RF EXPOSURE LIMITS

5.1 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 people 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 people in its vicinity.

5.2 Controlled Environment

CONTROLLED ENVIRONMENTS are defined as locations where there is exposure that may be incurred by people 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 people 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. This 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.

5.3 RF Exposure Limits for Frequencies below 6 GHz

Table 5-1
SAR Human Exposure Specified in ANSI/IEEE C95.1-1992 and Health Canada Safety Code 6

HUMAN EXPOSURE LIMITS		
	UNCONTROLLED ENVIRONMENT <i>General Population</i> (W/kg) or (mW/g)	CONTROLLED ENVIRONMENT <i>Occupational</i> (W/kg) or (mW/g)
Peak Spatial Average SAR Head	1.6	8.0
Whole Body SAR	0.08	0.4
Peak Spatial Average SAR Hands, Feet, Ankle, Wrists, etc.	4.0	20

1. The Spatial Peak value of the SAR averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube) and over the appropriate averaging time.
2. The Spatial Average value of the SAR averaged over the whole body.
3. The Spatial Peak value of the SAR averaged over any 10 grams of tissue (defined as a tissue volume in the shape of a cube) and over the appropriate averaging time.

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5.4 RF Exposure Limits for Frequencies above 6 GHz

Per §1.1310 (d)(3), the MPE limits are applied for frequencies above 6 GHz. Power Density is expressed in units of W/m^2 or mW/cm^2 .

Peak Spatially Averaged Power Density was evaluated over a circular area of 4 cm^2 per interim FCC Guidance for near-field power density evaluations per October 2018 TCB Workshop notes.

Table 5-2
Human Exposure Limits Specified in FCC 47 CFR §1.1310

Human Exposure to Radiofrequency (RF) Radiation Limits		
Frequency Range [MHz]	Power Density [mW/cm^2]	Average Time [Minutes]
(A) Limits For Occupational / Controlled Environments		
1,500 – 100,000	5.0	6
(B) Limits For General Population / Uncontrolled Environments		
1,500 – 100,000	1.0	30

Note: $1.0 \text{ mW}/\text{cm}^2$ is $10 \text{ W}/\text{m}^2$

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6 FCC MEASUREMENT PROCEDURES

6.1 Measured and Reported SAR

Per FCC KDB Publication 447498 D04v01, when SAR is not measured at the maximum power level allowed for production units, the results must be scaled to the maximum tune-up tolerance limit according to the power applied to the individual channels tested to determine compliance. For simultaneous transmission, the measured aggregate SAR must be scaled according to the sum of the differences between the maximum tune-up tolerance and actual power used to test each transmitter. When SAR is measured at or scaled to the maximum tune-up tolerance limit, the results are referred to as *reported* SAR. The highest *reported* SAR results are identified on the grant of equipment authorization according to procedures in KDB 690783 D01v01r03.

6.2 SAR Testing with 802.11 Transmitters

The normal network operating configurations of 802.11 transmitters are not suitable for SAR measurements. Unpredictable fluctuations in network traffic and antenna diversity conditions can introduce undesirable variations in SAR results. The SAR for these devices should be measured using chipset-based test mode software to ensure the results are consistent and reliable. See KDB Publication 248227 D01v02r02 for more details.

6.2.1 General Device Setup

Chipset based test mode software is hardware dependent and generally varies among manufacturers. The device operating parameters established in test mode for SAR measurements must be identical to those programmed in production units, including output power levels, amplifier gain settings and other RF performance tuning parameters.

A periodic duty factor is required for current generation SAR systems to measure SAR. When 802.11 frame gaps are accounted for in the transmission, a maximum transmission duty factor of 92 - 96% is typically achievable in most test mode configurations. A minimum transmission duty factor of 85% is required to avoid certain hardware and device implementation issues related to wide range SAR scaling. The reported SAR is scaled to a 100% transmission duty factor to determine compliance at the maximum tune-up tolerance limit.

6.2.2 U-NII-1 and U-NII-2A

For devices that operate in both U-NII-1 and U-NII-2A bands, when the same maximum output power is specified for both bands, SAR measurement using OFDM SAR test procedures is not required for U-NII-1 unless the highest reported SAR for U-NII-2A is > 1.2 W/kg. When different maximum output powers are specified for the bands, SAR measurement for the U-NII band with the lower maximum output power is not required unless the highest reported SAR for the U-NII band with the higher maximum output power, adjusted by the ratio of lower to higher specified maximum output power for the two bands, is > 1.2 W/kg. When 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds above.

6.2.3 U-NII-2C and U-NII-3

The frequency range covered by U-NII-2C and U-NII-3 is 380 MHz (5.47 – 5.85 GHz), which requires a minimum of at least two SAR probe calibration frequency points to support SAR measurements. When Terminal Doppler Weather Radar (TDWR) restriction applies, the channels at 5.60 – 5.65 GHz in U-NII-2C band must be disabled with acceptable mechanisms and documented in the equipment certification. Unless band gap channels are permanently disabled, SAR must be considered for these channels. Each band is tested independently according to the normally required OFDM SAR measurement and probe calibration frequency points requirements.

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6.2.4 2.4 GHz SAR Test Requirements

SAR is measured for 2.4 GHz 802.11b DSSS using either the fixed test position or, when applicable, the initial test position procedure. SAR test reduction is determined according to the following:

- 1) When the reported SAR of the highest measured maximum output power channel for the exposure configuration is ≤ 0.8 W/kg, no further SAR testing is required for 802.11b DSSS in that exposure configuration.
- 2) When the reported SAR is > 0.8 W/kg, SAR is required for that position using the next highest measured output power channel. When any reported SAR is > 1.2 W/kg, SAR is required for the third channel, i.e., all channels require testing.

2.4 GHz 802.11 g/n/ax OFDM are additionally evaluated for SAR if the highest reported SAR for 802.11b, adjusted by the ratio of the OFDM to DSSS specified maximum output power, is > 1.2 W/kg. When SAR is required for OFDM modes in 2.4 GHz band, the Initial Test Configuration Procedures should be followed. When 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds above.

6.2.5 OFDM Transmission Mode and SAR Test Channel Selection

When the same maximum output power was specified for multiple OFDM transmission mode configurations in a frequency band or aggregated band, SAR is measured using the configuration with the largest channel bandwidth, lowest order modulation and lowest data rate. When the maximum output power of a channel is the same for equivalent OFDM configurations; for example, 802.11a, 802.11n and 802.11ac or 802.11g and 802.11n with the same channel bandwidth, modulation and data rate etc., the lower order 802.11 mode i.e., 802.11a, then 802.11n and 802.11ac or 802.11g then 802.11n, is used for SAR measurement. Per April 2019 TCB Workshop guidance, 802.11ax was considered the highest order 802.11 mode. When the maximum output power are the same for multiple test channels, either according to the default or additional power measurement requirements, SAR is measured using the channel closest to the middle of the frequency band or aggregated band. When there are multiple channels with the same maximum output power, SAR is measured using the higher number channel.

6.2.6 Initial Test Configuration Procedure

For OFDM, an initial test configuration is determined for each frequency band and aggregated band, according to the transmission mode with the highest maximum output power specified for SAR measurements. When the same maximum output power is specified for multiple OFDM transmission mode configurations in a frequency band or aggregated band, SAR is measured using the configuration(s) with the largest channel bandwidth, lowest order modulation, lowest data rate and lowest order IEEE 802.11 mode. The channel of the transmission mode with the highest average RF output conducted power will be the initial test configuration.

When the reported SAR is ≤ 0.8 W/kg, no additional measurements on other test channels are required. Otherwise, SAR is evaluated using the subsequent highest average RF output channel until the reported SAR result is ≤ 1.2 W/kg or all channels are measured. When there are multiple untested channels having the same subsequent highest average RF output power, the channel with higher frequency from the lowest 802.11 mode is considered for SAR measurements (See Section 6.2.5). When 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds above.

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6.2.7 Subsequent Test Configuration Procedures

For OFDM configurations in each frequency band and aggregated band, SAR is evaluated for initial test configuration using the fixed test position or the initial test position procedure. When the highest reported SAR (for the initial test configuration), adjusted by the ratio of the specified maximum output power of the subsequent test configuration to initial test configuration, is ≤ 1.2 W/kg, no additional SAR tests for the subsequent test configurations are required. When 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds above.

6.2.8 MIMO SAR considerations

Per KDB Publication 248227 D01v02r02, the simultaneous SAR provisions in KDB Publication 447498 D04v01 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, no additional SAR measurements for MIMO are required. Alternatively, SAR for MIMO can be measured with all antennas transmitting simultaneously at the specified maximum output power of MIMO operation. When 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds above.

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7 RF CONDUCTED POWERS

7.1 2.4 GHz WLAN Maximum Time-Averaged Conducted Powers

Table 7-1
2.4 GHz WLAN Maximum Average RF Power – Antenna WF8

2.4GHz WIFI (20MHz 802.11b SISO ANT WF8)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	19.21
2437	6		19.24
2462	11		19.18
2.4GHz WIFI (20MHz 802.11g SISO ANT WF8)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	13.69
2427	4		18.30
2437	6		18.33
2447	8		18.29
2462	11		14.25
2.4GHz WIFI (20MHz 802.11n SISO ANT WF8)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	13.68
2427	4		18.30
2437	6		18.32
2447	8		18.26
2462	11		14.24
2.4GHz WIFI (20MHz 802.11ax SISO ANT WF8)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	13.61
2427	4		18.28
2437	6		18.29
2442	7		18.27
2462	11		14.22

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Table 7-2
2.4 GHz WLAN Maximum Average RF Power – Antenna WF7

2.4GHz WIFI (20MHz 802.11b SISO ANT WF7)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	19.37
2437	6		19.43
2462	11		19.26
2.4GHz WIFI (20MHz 802.11g SISO ANT WF7)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	13.74
2422	3		18.21
2437	6		18.29
2452	9		18.18
2462	11		14.38
2.4GHz WIFI (20MHz 802.11n SISO ANT WF7)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	13.77
2422	3		18.19
2437	6		18.30
2452	9		18.17
2462	11		14.37
2.4GHz WIFI (20MHz 802.11ax SISO ANT WF7)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	13.67
2422	3		18.26
2437	6		18.24
2452	9		18.25
2462	11		13.61

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Table 7-3
2.4 GHz WLAN Maximum Average RF Power – Antenna WF9

2.4GHz WIFI (20MHz 802.11b SISO ANT WF9)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	20.54
2437	6		20.72
2462	11		20.45
2.4GHz WIFI (20MHz 802.11g SISO ANT WF9)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	13.80
2427	4		19.62
2437	6		19.67
2442	7		19.64
2462	11		14.52
2.4GHz WIFI (20MHz 802.11n SISO ANT WF9)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	13.86
2427	4		19.64
2437	6		19.68
2442	7		19.70
2462	11		14.56
2.4GHz WIFI (20MHz 802.11ax SISO ANT WF9)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	13.63
2432	5		19.60
2437	6		19.60
2442	7		19.61
2462	11		13.49

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7.2 5 GHz WLAN Maximum Time-Averaged Conducted Powers

Table 7-4
5 GHz WLAN Maximum Average RF Power – Antenna WF5B

5GHz WIFI (40MHz 802.11n SISO ANT WF5B)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	14.57
	5230	46	18.97
UNII-2A	5270	54	19.05
	5310	62	14.58
UNII-3	5755	151	19.08
	5795	159	19.19
5GHz WIFI (40MHz 802.11ac SISO ANT WF5B)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	14.59
	5230	46	18.98
UNII-2A	5270	54	18.97
	5310	62	14.46
UNII-3	5755	151	19.16
	5795	159	18.95
5GHz WIFI (40MHz 802.11ax SISO ANT WF5B)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	14.63
	5230	46	18.98
UNII-2A	5270	54	19.06
	5310	62	14.52
UNII-3	5755	151	19.27
	5795	159	19.00
5GHz WIFI (80MHz 802.11ac SISO ANT WF5B)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-2C	5530	106	12.86
	5610	122	16.80
	5690	138	19.82
5GHz WIFI (80MHz 802.11ax SISO ANT WF5B)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-2C	5530	106	12.68
	5610	122	16.70
	5690	138	19.63

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Table 7-5
5 GHz WLAN Maximum Average RF Power – Antenna WF8

5GHz WIFI (40MHz 802.11n SISO ANT WF8)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	13.71
	5230	46	14.77
UNII-2A	5270	54	16.17
	5310	62	15.70
5GHz WIFI (40MHz 802.11ac SISO ANT WF8)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	13.81
	5230	46	14.76
UNII-2A	5270	54	16.04
	5310	62	15.69
5GHz WIFI (40MHz 802.11ax SISO ANT WF8)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	13.88
	5230	46	14.78
UNII-2A	5270	54	16.12
	5310	62	15.67
5GHz WIFI (80MHz 802.11ac SISO ANT WF8)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-2C	5530	106	12.92
	5610	122	15.15
	5690	138	15.10
UNII-3	5775	155	17.41
5GHz WIFI (80MHz 802.11ax SISO ANT WF8)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-2C	5530	106	12.32
	5610	122	15.11
	5690	138	14.97
UNII-3	5775	155	17.28

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Table 7-6
5 GHz WLAN Maximum Average RF Power – Antenna WF7

5GHz WIFI (40MHz 802.11n SISO ANT WF7)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	14.66
	5230	46	17.02
UNII-2A	5270	54	16.78
	5310	62	15.20
5GHz WIFI (40MHz 802.11ac SISO ANT WF7)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	14.57
	5230	46	17.09
UNII-2A	5270	54	16.78
	5310	62	15.17
5GHz WIFI (40MHz 802.11ax SISO ANT WF7)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	14.14
	5230	46	17.10
UNII-2A	5270	54	16.81
	5310	62	14.58
5GHz WIFI (80MHz 802.11ac SISO ANT WF7)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-2C	5530	106	13.02
	5610	122	16.23
	5690	138	16.26
UNII-3	5775	155	16.89
5GHz WIFI (80MHz 802.11ax SISO ANT WF7)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-2C	5530	106	12.76
	5610	122	15.68
	5690	138	15.41
UNII-3	5775	155	17.06

7.3 6 GHz WLAN Maximum Time-Averaged Conducted Powers

Table 7-7
6 GHz WLAN Maximum Average RF Power – Antenna WF5B

6GHz WIFI (160MHz 802.11ax SISO ANT WF5B)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-5	6025	15	14.61
	6345	79	14.05
UNII-6	6505	111	13.81
UNII-7	6665	143	12.94
UNII-8	6985	207	12.90

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Table 7-8
6 GHz WLAN Maximum Average RF Power – Antenna WF8

6GHz WIFI (160MHz 802.11ax SISO ANT WF8)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-5	6025	15	11.07
	6345	79	10.30
UNII-6	6505	111	9.20
UNII-7	6665	143	9.55
UNII-8	6985	207	9.97

Table 7-9
6 GHz WLAN Maximum Average RF Power – Antenna WF7

6GHz WIFI (160MHz 802.11ax SISO ANT WF7)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-5	6025	15	13.60
	6345	79	13.12
	6505	111	13.85
UNII-7	6665	143	13.32
	6985	207	12.78

7.4 Notes for WLAN

Justification for test configurations for WLAN per KDB Publication 248227 D01v02r02:

- Power measurements were performed for the transmission mode configuration with the highest maximum output power specified for production units.
- For transmission modes with the same maximum output power specification, powers were measured for the largest channel bandwidth, lowest order modulation and lowest data rate.
- For transmission modes with identical maximum specified output power, channel bandwidth, modulation and data rates, power measurements were required for all identical configurations.
- For each transmission mode configuration, powers were measured for the highest and lowest channels; and at the mid-band channel(s) when there were at least 3 channels supported. For configurations with multiple mid-band channels, due to an even number of channels, both channels were measured.

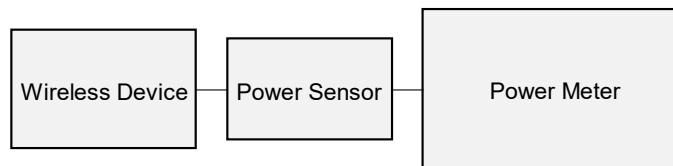


Figure 7-1
Power Measurement Setup

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7.5 Bluetooth Maximum Conducted Powers

Table 7-10
Bluetooth Average RF Power – Antenna WF8

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	$\pi/4$ -DQPSK	2.0	0	15.52	35.645
2441	$\pi/4$ -DQPSK	2.0	39	15.34	34.198
2480	$\pi/4$ -DQPSK	2.0	78	15.41	34.754

Table 7-11
Bluetooth Average RF Power – Antenna WF7

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	16.56	45.290
2441	GFSK	1.0	39	16.48	44.463
2480	GFSK	1.0	78	16.58	45.499

Table 7-12
Bluetooth Average RF Power – Antenna WF9

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	16.83	48.195
2441	GFSK	1.0	39	16.73	47.098
2480	GFSK	1.0	78	16.86	48.529

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7.6 Bluetooth Duty Cycle Plots

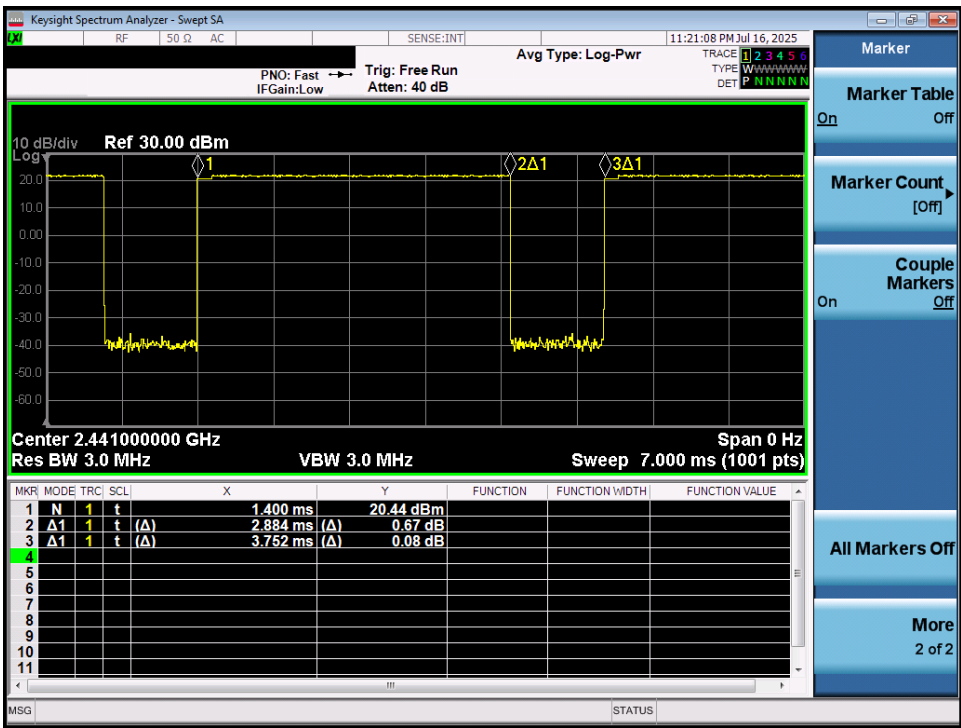


Figure 7-2
Bluetooth EDR Transmission Plot – Antenna WF8

Equation 7-1
Bluetooth EDR Duty Cycle Calculation – Antenna WF8

$$Duty\ Cycle = \frac{Pulse\ Width}{Period} * 100\% = \frac{2.884\ ms}{3.752\ ms} * 100\% = 76.87\%$$

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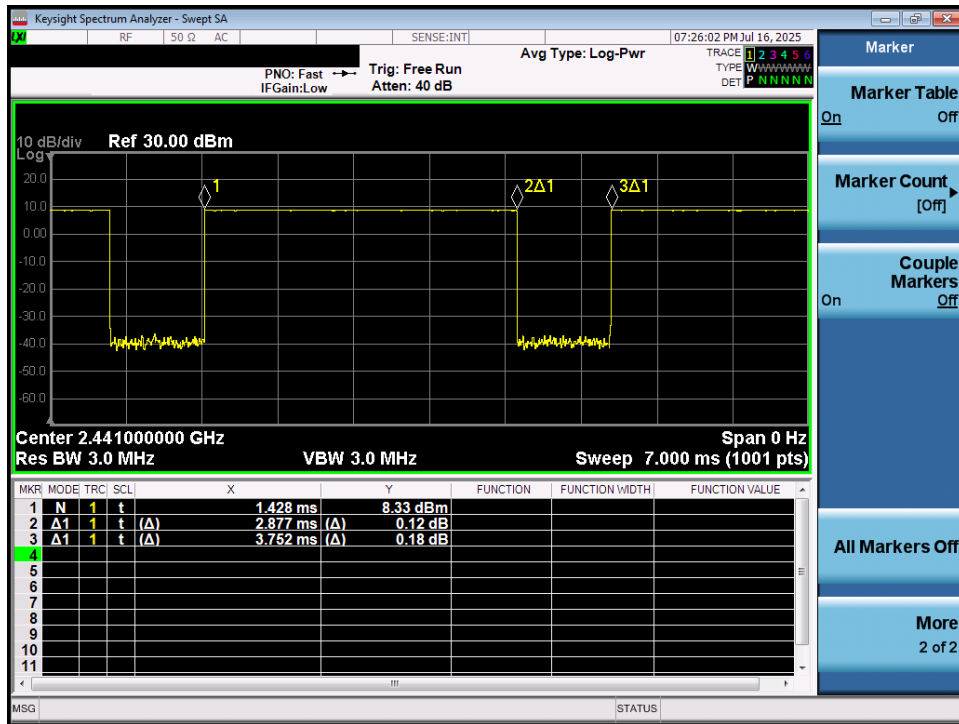


Figure 7-3
Bluetooth BDR Transmission Plot – Antenna WF7

Equation 7-2
Bluetooth BDR Duty Cycle Calculation – Antenna WF7

$$Duty\ Cycle = \frac{Pulse\ Width}{Period} * 100\% = \frac{2.877\ ms}{3.752\ ms} * 100\% = 76.68\%$$

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Bluetooth BDR Duty Cycle Calculation – Antenna WF9

$$\text{Duty Cycle} = \frac{\text{Pulse Width}}{\text{Period}} * 100\% = \frac{2.879 \text{ ms}}{3.751 \text{ ms}} * 100\% = 76.75\%$$

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7.7 802.15.4 Maximum Conducted Powers

Table 7-13
802.15.4 Average RF Power – Antenna WF8

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2405	O-QPSK	1.0	11	17.27	53.333
2440	O-QPSK	1.0	18	17.29	53.580
2475	O-QPSK	1.0	25	17.42	55.208

Table 7-14
802.15.4 Average RF Power – Antenna WF7

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2405	O-QPSK	1.0	11	18.69	73.961
2440	O-QPSK	1.0	18	18.60	72.444
2475	O-QPSK	1.0	25	18.40	69.183

Table 7-15
802.15.4 Average RF Power – Antenna WF9

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2405	O-QPSK	1.0	11	18.03	63.533
2440	O-QPSK	1.0	18	18.60	72.444
2475	O-QPSK	1.0	25	18.62	72.778

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7.8 802.15.4 Duty Cycle Plots

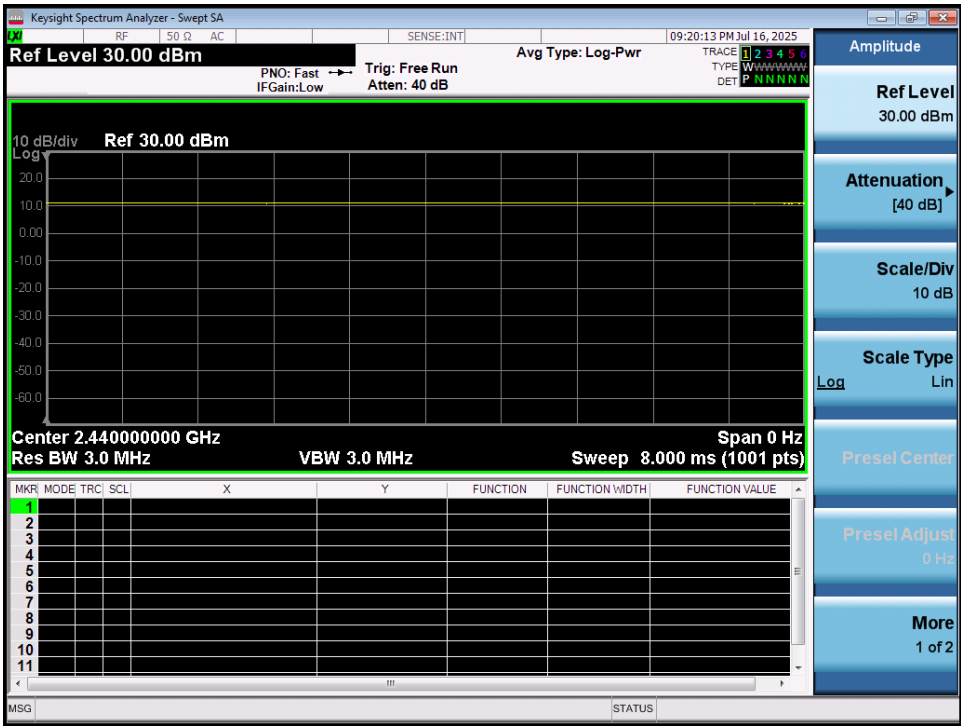


Figure 7-5
802.15.4 Transmission Plot – Antenna WF8/WF7/WF9

Equation 7-4
802.15.4 Duty Cycle Calculation – Antenna WF8/WF7/WF9

Duty Cycle = 100%

7.9 Notes for Bluetooth/802.15.4

- Full power measurements were performed per FCC KDB Procedures 248227.

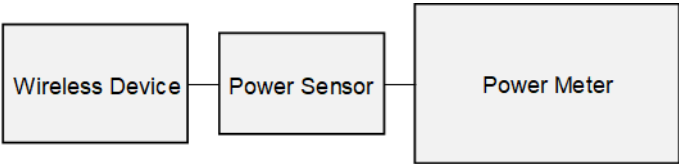


Figure 7-6
Power Measurement Setup

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7.10 NB UNII Maximum Conducted Powers

Table 7-16
NB UNII Average RF Power – Antenna WF5B

Type	Band	Frequency	Channel	Average
HDR8	U-NII 1	5162	Low	13.47
		5204	Mid	13.61
		5245	High	13.40
BDR	U-NII 3	5733	Low	19.37
		5789	Mid	19.32
		5844	High	19.37
HDRPL8	U-NII 5	6109	Low	-0.26
		6186	Low-Mid	-0.18
		6263	Mid	-0.13
		6340	Mid-High	-0.35
		6417	High	-0.87

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Table 7-17
NB UNII Average RF Power – Antenna WF8

Type	Band	Frequency	Channel	Average
HDR8	U-NII 1	5162	Low	13.78
		5204	Mid	13.98
		5245	High	13.36
BDR	U-NII 3	5733	Low	16.71
		5789	Mid	16.87
		5844	High	16.79
HDRPL8	U-NII 5	6109	Low	1.72
		6186	Low-Mid	1.69
		6263	Mid	1.52
		6340	Mid-High	1.50
		6417	High	1.37

Table 7-18
NB UNII Average RF Power – Antenna WF7

Type	Band	Frequency	Channel	Average
HDR8	U-NII 1	5162	Low	12.70
		5204	Mid	12.82
		5245	High	12.86
BDR	U-NII 3	5733	Low	16.33
		5789	Mid	16.21
		5844	High	16.78
HDRPL8	U-NII 5	6109	Low	0.46
		6186	Low-Mid	0.49
		6263	Mid	0.30
		6340	Mid-High	0.10
		6417	High	0.03

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7.11 NB UNII Duty Cycle Plots

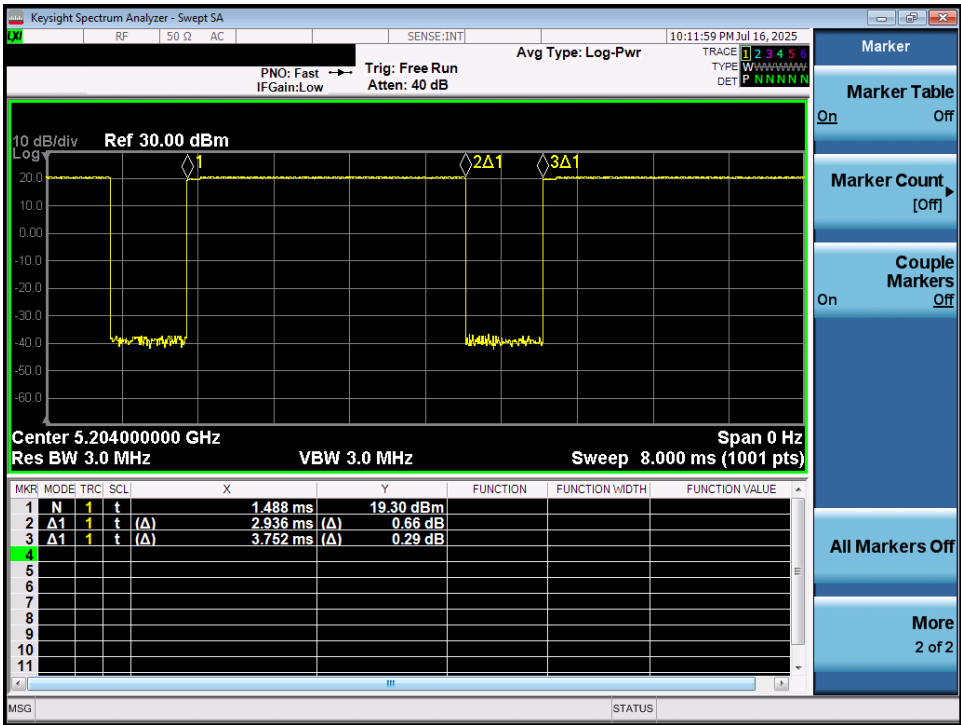


Figure 7-7
NB UNII 1 HDR8 Transmission Plot – Antenna WF5B

Equation 7-5
NB UNII 1 HDR8 Duty Cycle Calculation – Antenna WF5B

$$Duty\ Cycle = \frac{Pulse\ Width}{Period} * 100\% = \frac{2.936\ ms}{3.752\ ms} * 100\% = 78.25\%$$

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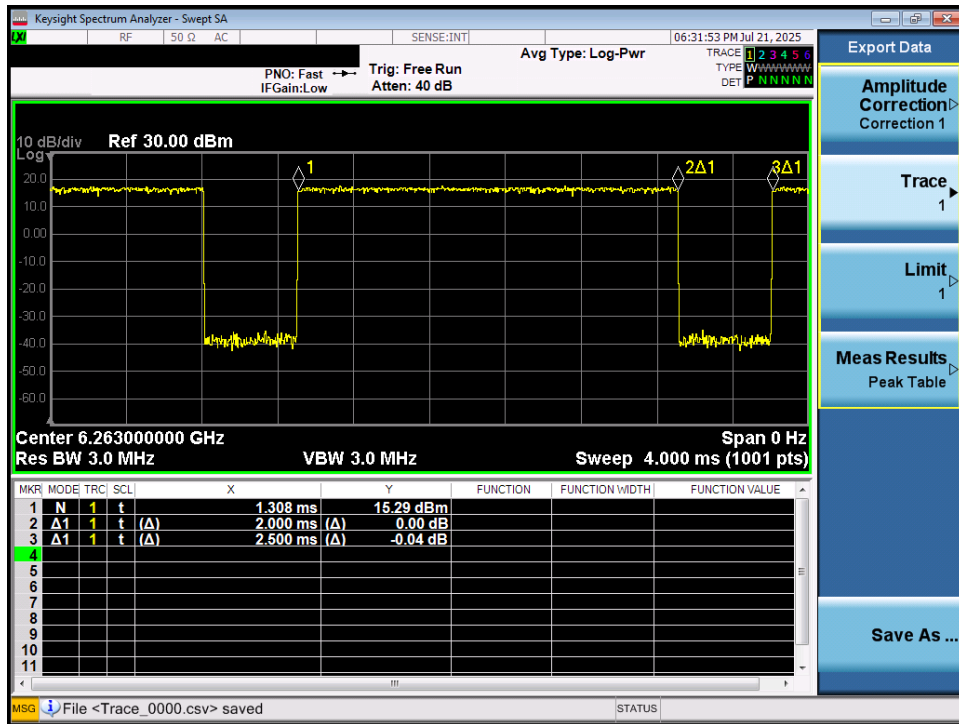


Figure 7-9
NB UNII 5 HDRPL8 Transmission Plot – Antenna WF5B

Equation 7-7
NB UNII 5 HDRPL8 Duty Cycle Calculation – Antenna WF5B

$$\text{Duty Cycle} = \frac{\text{Pulse Width}}{\text{Period}} * 100\% = \frac{2.000 \text{ ms}}{2.500 \text{ ms}} * 100\% = 80.00\%$$

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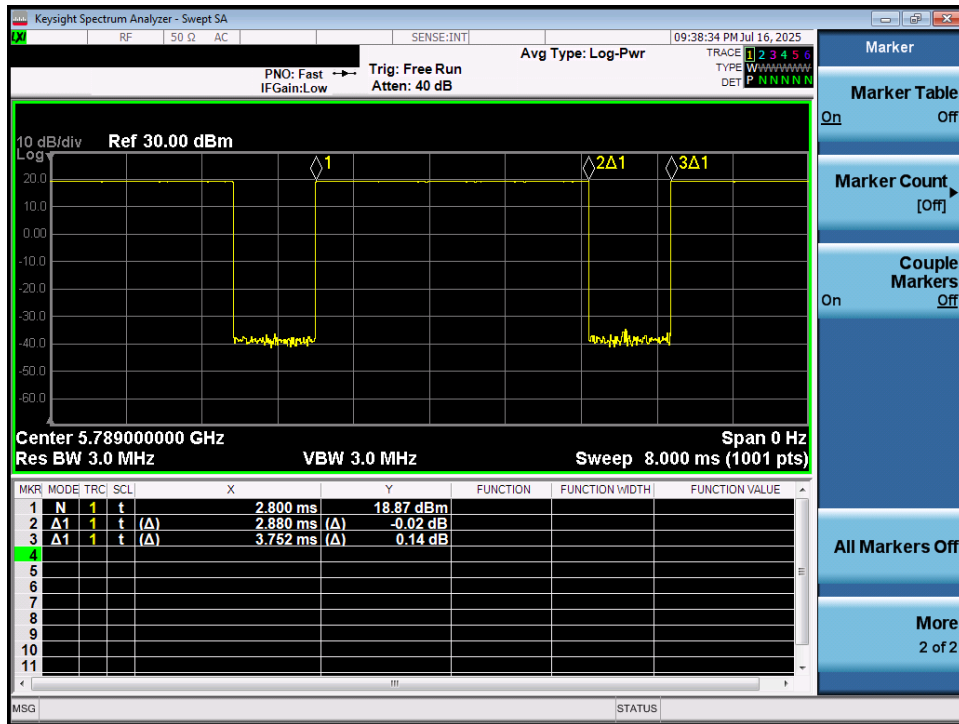


Figure 7-11
NB UNII 3 BDR Transmission Plot – Antenna WF8

Equation 7-9
NB UNII 3 BDR Duty Cycle Calculation – Antenna WF8

$$\text{Duty Cycle} = \frac{\text{Pulse Width}}{\text{Period}} * 100\% = \frac{2.880 \text{ ms}}{3.752 \text{ ms}} * 100\% = 76.76\%$$

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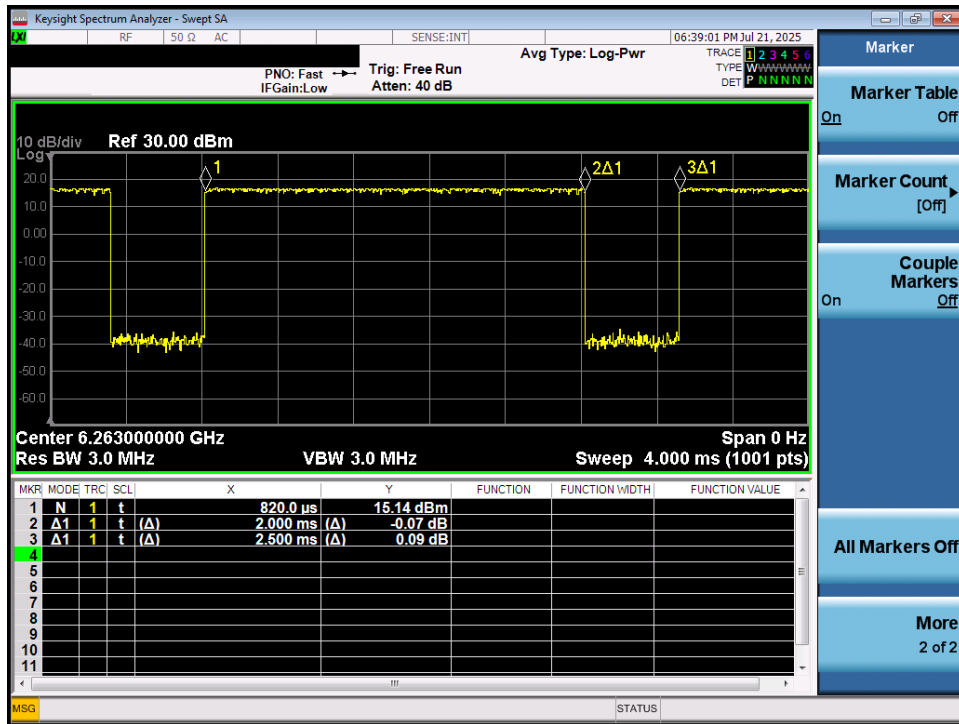


Figure 7-12
NB UNII 5 HDRPL8 Transmission Plot – Antenna WF8

Equation 7-10
NB UNII 5 HDRPL8 Duty Cycle Calculation – Antenna WF8

$$\text{Duty Cycle} = \frac{\text{Pulse Width}}{\text{Period}} * 100\% = \frac{2.000 \text{ ms}}{2.500 \text{ ms}} * 100\% = 80.00\%$$

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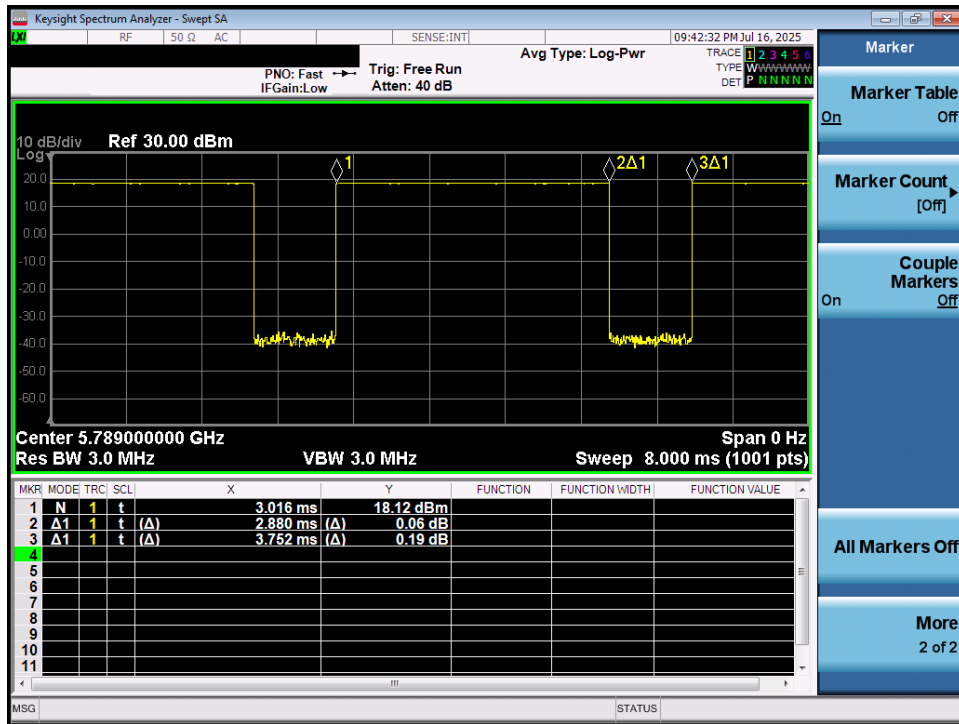


Figure 7-14
NB UNII 3 BDR Transmission Plot – Antenna WF7

Equation 7-12
NB UNII 3 BDR Duty Cycle Calculation – Antenna WF7

$$Duty\ Cycle = \frac{Pulse\ Width}{Period} * 100\% = \frac{2.880\ ms}{3.752\ ms} * 100\% = 76.76\%$$

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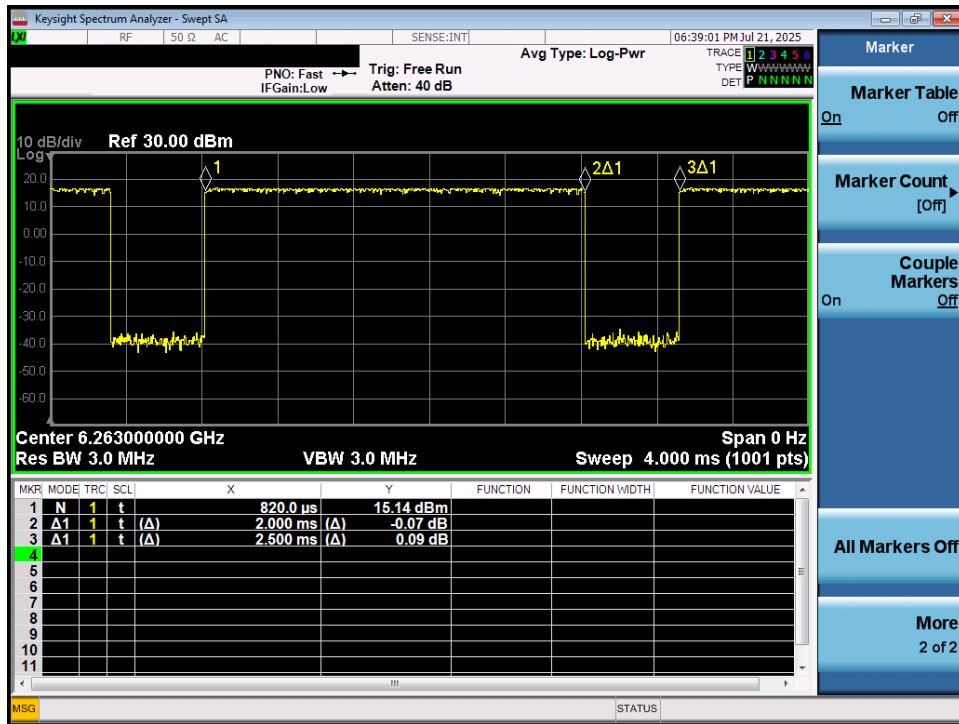


Figure 7-15
NB UNII 5 HDRPL8 Transmission Plot – Antenna WF7

Equation 7-13
NB UNII 5 HDRPL8 Duty Cycle Calculation – Antenna WF7

$$\text{Duty Cycle} = \frac{\text{Pulse Width}}{\text{Period}} * 100\% = \frac{2.000 \text{ ms}}{2.500 \text{ ms}} * 100\% = 80.00\%$$

7.12 Notes for NB UNII

- Full power measurements were performed per FCC KDB Procedures 248227.

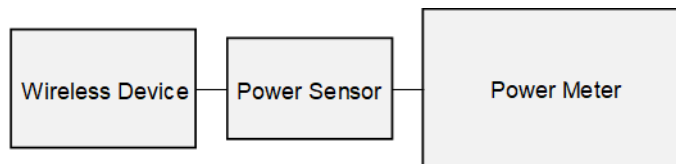


Figure 7-16

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8 SYSTEM VERIFICATION

8.1 Tissue Verification

Table 8-1
Measured Tissue Properties

Calibrated for Tests Performed on:	Tissue Type	Tissue Temp During Calibration (°C)	Measured Frequency (MHz)	Measured Conductivity, σ (S/m)	Measured Dielectric Constant, ϵ	TARGET Conductivity, σ (S/m)	TARGET Dielectric Constant, ϵ	% dev σ	% dev ϵ
7/17/2025	30 Head	24.0	4	0.765	56.072	0.750	55.000	2.00%	1.95%
			6	0.765	55.267	0.750	55.000	2.00%	0.49%
			12	0.765	53.682	0.750	55.000	2.00%	-2.40%
			13	0.766	53.533	0.750	55.000	2.13%	-2.67%
			14	0.766	53.464	0.750	55.000	2.13%	-2.79%
			30	0.768	53.251	0.750	55.000	2.40%	-3.18%
			60	0.773	52.667	0.753	54.325	2.66%	-3.05%
			65	0.774	52.578	0.753	54.213	2.79%	-3.02%
5/20/2025	2450 Head	24.0	2300	1.663	39.695	1.670	39.500	-0.42%	0.49%
			2310	1.675	39.655	1.679	39.480	-0.24%	0.44%
			2320	1.687	39.615	1.687	39.460	0.00%	0.39%
			2400	1.778	39.302	1.756	39.289	1.25%	0.03%
			2450	1.833	39.111	1.800	39.200	1.83%	-0.23%
			2480	1.867	38.992	1.833	39.162	1.85%	-0.43%
			2500	1.889	38.915	1.855	39.136	1.83%	-0.56%
			2510	1.900	38.877	1.866	39.123	1.82%	-0.63%
			2535	1.929	38.791	1.893	39.092	1.90%	-0.77%
			2550	1.946	38.743	1.909	39.073	1.94%	-0.84%
			2560	1.958	38.706	1.920	39.060	1.98%	-0.91%
			2600	2.005	38.535	1.964	39.009	2.09%	-1.22%
			2650	2.064	38.358	2.018	38.945	2.28%	-1.51%
			2680	2.099	38.233	2.051	38.907	2.34%	-1.73%
			2700	2.123	38.145	2.073	38.882	2.41%	-1.90%
7/16/2025	2450 Head	24.7	2300	1.675	38.808	1.670	39.500	0.30%	-1.75%
			2310	1.687	38.769	1.679	39.480	0.48%	-1.80%
			2320	1.699	38.733	1.687	39.460	0.71%	-1.84%
			2400	1.788	38.407	1.756	39.289	1.82%	-2.24%
			2450	1.847	38.212	1.800	39.200	2.61%	-2.52%
			2480	1.878	38.088	1.833	39.162	2.45%	-2.74%
			2500	1.901	37.997	1.855	39.136	2.48%	-2.91%
			2510	1.914	37.951	1.866	39.123	2.57%	-3.00%
			2535	1.945	37.844	1.893	39.092	2.75%	-3.19%
			2550	1.962	37.786	1.909	39.073	2.78%	-3.29%
			2560	1.974	37.749	1.920	39.060	2.81%	-3.36%
			2600	2.017	37.597	1.964	39.009	2.70%	-3.62%
			2650	2.077	37.369	2.018	38.945	2.92%	-4.05%
			2680	2.112	37.257	2.051	38.907	2.97%	-4.24%
			2700	2.133	37.185	2.073	38.882	2.89%	-4.36%

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Calibrated for Tests Performed on:	Tissue Type	Tissue Temp During Calibration (°C)	Measured Frequency (MHz)	Measured Conductivity, σ (S/m)	Measured Dielectric Constant, ϵ	TARGET Conductivity, σ (S/m)	TARGET Dielectric Constant, ϵ	% dev σ	% dev ϵ
5/19/2025	5200-5800 Head	21.0	5150	4.389	35.395	4.608	36.050	-4.75%	-1.82%
			5160	4.398	35.386	4.618	36.040	-4.76%	-1.81%
			5170	4.407	35.367	4.629	36.030	-4.80%	-1.84%
			5180	4.420	35.340	4.635	36.009	-4.64%	-1.86%
			5190	4.434	35.316	4.645	35.998	-4.54%	-1.89%
			5200	4.443	35.304	4.655	35.986	-4.55%	-1.90%
			5210	4.450	35.295	4.666	35.975	-4.63%	-1.89%
			5220	4.459	35.281	4.676	35.963	-4.64%	-1.90%
			5240	4.485	35.236	4.696	35.940	-4.49%	-1.96%
			5250	4.498	35.225	4.706	35.929	-4.42%	-1.96%
			5260	4.507	35.206	4.717	35.917	-4.45%	-1.98%
			5270	4.516	35.190	4.727	35.906	-4.46%	-1.99%
			5280	4.529	35.166	4.737	35.894	-4.39%	-2.03%
			5290	4.545	35.135	4.748	35.883	-4.28%	-2.08%
			5300	4.556	35.108	4.758	35.871	-4.25%	-2.13%
			5310	4.564	35.098	4.768	35.860	-4.28%	-2.12%
			5320	4.571	35.094	4.778	35.849	-4.33%	-2.11%
			5500	4.768	34.777	4.963	35.643	-3.93%	-2.43%
			5510	4.779	34.756	4.973	35.632	-3.90%	-2.46%
			5520	4.788	34.739	4.983	35.620	-3.91%	-2.47%
			5530	4.806	34.715	4.994	35.609	-3.76%	-2.51%
			5540	4.822	34.692	5.004	35.597	-3.64%	-2.54%
			5550	4.835	34.691	5.014	35.586	-3.57%	-2.52%
			5560	4.841	34.686	5.024	35.574	-3.64%	-2.50%
			5580	4.854	34.668	5.045	35.551	-3.79%	-2.48%
			5600	4.884	34.601	5.065	35.529	-3.57%	-2.61%
			5610	4.899	34.591	5.076	35.518	-3.49%	-2.61%
			5620	4.910	34.589	5.086	35.506	-3.46%	-2.58%
			5640	4.934	34.542	5.106	35.483	-3.37%	-2.65%
			5660	4.952	34.496	5.127	35.460	-3.41%	-2.72%
			5670	4.964	34.489	5.137	35.449	-3.37%	-2.71%
			5680	4.975	34.480	5.147	35.437	-3.34%	-2.70%
			5690	4.984	34.459	5.158	35.426	-3.37%	-2.73%
			5700	4.995	34.425	5.168	35.414	-3.35%	-2.79%
			5710	5.007	34.397	5.178	35.403	-3.30%	-2.84%
			5720	5.019	34.375	5.188	35.391	-3.26%	-2.87%
			5745	5.061	34.353	5.214	35.363	-2.93%	-2.86%
			5750	5.068	34.347	5.219	35.357	-2.89%	-2.86%
			5755	5.072	34.341	5.224	35.351	-2.91%	-2.86%
			5765	5.080	34.326	5.234	35.340	-2.94%	-2.87%
			5775	5.089	34.307	5.245	35.329	-2.97%	-2.89%
			5785	5.097	34.290	5.255	35.317	-3.01%	-2.91%
			5795	5.109	34.270	5.265	35.305	-2.96%	-2.93%
			5800	5.112	34.258	5.270	35.300	-3.00%	-2.95%
			5805	5.116	34.245	5.275	35.294	-3.01%	-2.97%
			5825	5.144	34.213	5.296	35.271	-2.87%	-3.00%
			5835	5.154	34.202	5.305	35.230	-2.85%	-2.92%
			5845	5.167	34.197	5.315	35.210	-2.78%	-2.88%
			5850	5.172	34.191	5.320	35.200	-2.78%	-2.87%
			5855	5.177	34.186	5.325	35.197	-2.78%	-2.87%
			5865	5.190	34.169	5.336	35.190	-2.74%	-2.90%
			5875	5.202	34.143	5.347	35.183	-2.71%	-2.96%
			5885	5.212	34.116	5.357	35.177	-2.71%	-3.02%
			5905	5.231	34.081	5.379	35.163	-2.75%	-3.08%

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Calibrated for Tests Performed on:	Tissue Type	Tissue Temp During Calibration (°C)	Measured Frequency (MHz)	Measured Conductivity, σ (S/m)	Measured Dielectric Constant, ϵ	TARGET Conductivity, σ (S/m)	TARGET Dielectric Constant, ϵ	% dev σ	% dev ϵ
7/9/2025	5200-5800 Head	19.0	5150	4.482	35.338	4.608	36.050	-2.73%	-1.98%
			5160	4.498	35.333	4.618	36.040	-2.60%	-1.96%
			5170	4.511	35.314	4.629	36.030	-2.55%	-1.99%
			5180	4.517	35.277	4.635	36.009	-2.55%	-2.03%
			5190	4.528	35.246	4.645	35.998	-2.52%	-2.09%
			5200	4.542	35.226	4.655	35.986	-2.43%	-2.11%
			5210	4.554	35.217	4.666	35.975	-2.40%	-2.11%
			5220	4.563	35.207	4.676	35.963	-2.42%	-2.10%
			5240	4.588	35.155	4.696	35.940	-2.30%	-2.18%
			5250	4.604	35.139	4.706	35.929	-2.17%	-2.20%
			5260	4.610	35.122	4.717	35.917	-2.27%	-2.21%
			5270	4.619	35.106	4.727	35.906	-2.28%	-2.23%
			5280	4.630	35.083	4.737	35.894	-2.26%	-2.26%
			5290	4.643	35.057	4.748	35.883	-2.21%	-2.30%
			5300	4.654	35.031	4.758	35.871	-2.19%	-2.34%
			5310	4.665	35.014	4.768	35.860	-2.16%	-2.36%
			5320	4.679	34.996	4.778	35.849	-2.07%	-2.38%
			5500	4.883	34.640	4.963	35.643	-1.61%	-2.81%
			5510	4.893	34.624	4.973	35.632	-1.61%	-2.83%
			5520	4.903	34.602	4.983	35.620	-1.61%	-2.86%
			5530	4.914	34.567	4.994	35.609	-1.60%	-2.93%
			5540	4.927	34.533	5.004	35.597	-1.54%	-2.99%
			5550	4.939	34.509	5.014	35.586	-1.50%	-3.03%
			5560	4.954	34.508	5.024	35.574	-1.39%	-3.00%
			5580	4.972	34.486	5.045	35.551	-1.45%	-3.00%
			5600	5.002	34.429	5.065	35.529	-1.24%	-3.10%
			5610	5.017	34.419	5.076	35.518	-1.16%	-3.09%
			5620	5.026	34.408	5.086	35.506	-1.18%	-3.09%
			5640	5.048	34.351	5.106	35.483	-1.14%	-3.19%
			5660	5.076	34.296	5.127	35.460	-0.99%	-3.28%
			5670	5.088	34.290	5.137	35.449	-0.95%	-3.27%
			5680	5.101	34.284	5.147	35.437	-0.89%	-3.25%
			5690	5.111	34.265	5.158	35.426	-0.91%	-3.28%
			5700	5.117	34.232	5.168	35.414	-0.99%	-3.34%
			5710	5.129	34.208	5.178	35.403	-0.95%	-3.38%
			5720	5.140	34.197	5.188	35.391	-0.93%	-3.37%
			5745	5.170	34.145	5.214	35.363	-0.84%	-3.44%
			5750	5.177	34.129	5.219	35.357	-0.80%	-3.47%
			5755	5.183	34.114	5.224	35.351	-0.78%	-3.50%
			5765	5.195	34.087	5.234	35.340	-0.75%	-3.55%
			5775	5.206	34.068	5.245	35.329	-0.74%	-3.57%
			5785	5.219	34.060	5.255	35.317	-0.69%	-3.56%
			5795	5.228	34.044	5.265	35.305	-0.70%	-3.57%
			5800	5.234	34.035	5.270	35.300	-0.68%	-3.58%
			5805	5.239	34.026	5.275	35.294	-0.68%	-3.59%
			5825	5.262	33.993	5.296	35.271	-0.64%	-3.62%
			5835	5.275	33.984	5.305	35.230	-0.57%	-3.54%
			5845	5.284	33.967	5.315	35.210	-0.58%	-3.53%
			5850	5.289	33.954	5.320	35.200	-0.58%	-3.54%
			5855	5.296	33.947	5.325	35.197	-0.54%	-3.55%
			5865	5.309	33.923	5.336	35.190	-0.51%	-3.60%
			5875	5.324	33.893	5.347	35.183	-0.43%	-3.67%
			5885	5.336	33.869	5.357	35.177	-0.39%	-3.72%
			5905	5.354	33.825	5.379	35.163	-0.46%	-3.81%

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Calibrated for Tests Performed on:	Tissue Type	Tissue Temp During Calibration (°C)	Measured Frequency (MHz)	Measured Conductivity, σ (S/m)	Measured Dielectric Constant, ϵ	TARGET Conductivity, σ (S/m)	TARGET Dielectric Constant, ϵ	% dev σ	% dev ϵ
8/1/2025	6000 Head	20.7	5935	5.216	35.830	5.411	35.143	-3.60%	1.95%
			5970	5.243	35.779	5.448	35.120	-3.76%	1.88%
			5985	5.260	35.761	5.464	35.110	-3.73%	1.85%
			6000	5.278	35.742	5.480	35.100	-3.69%	1.83%
			6025	5.308	35.707	5.510	35.070	-3.67%	1.82%
			6065	5.340	35.610	5.557	35.022	-3.90%	1.68%
			6075	5.352	35.584	5.569	35.010	-3.90%	1.64%
			6085	5.366	35.561	5.580	34.998	-3.84%	1.61%
			6185	5.481	35.416	5.698	34.878	-3.81%	1.54%
			6275	5.586	35.209	5.805	34.770	-3.77%	1.26%
			6285	5.598	35.191	5.816	34.758	-3.75%	1.25%
			6305	5.627	35.158	5.840	34.734	-3.65%	1.22%
			6345	5.693	35.118	5.887	34.686	-3.30%	1.25%
			6475	5.825	34.877	6.041	34.530	-3.58%	1.00%
			6485	5.836	34.845	6.052	34.518	-3.57%	0.95%
			6500	5.857	34.804	6.070	34.500	-3.51%	0.88%
			6505	5.865	34.793	6.076	34.494	-3.47%	0.87%
			6545	5.938	34.769	6.122	34.446	-3.01%	0.94%
			6665	6.068	34.558	6.265	34.302	-3.14%	0.75%
			6675	6.078	34.539	6.273	34.290	-3.11%	0.73%
			6685	6.088	34.518	6.285	34.278	-3.13%	0.70%
			6715	6.126	34.459	6.319	34.242	-3.05%	0.63%
			6785	6.216	34.410	6.400	34.158	-2.88%	0.74%
			6825	6.241	34.319	6.447	34.110	-3.20%	0.61%
			6985	6.442	34.075	6.633	33.918	-2.88%	0.46%
			6995	6.448	34.061	6.644	33.906	-2.95%	0.46%
			7000	6.452	34.052	6.650	33.900	-2.98%	0.45%
			7005	6.457	34.039	6.656	33.894	-2.99%	0.43%
			7025	6.479	33.987	6.680	33.870	-3.01%	0.35%
			7500	7.114	33.160	7.240	33.300	-1.74%	-0.42%
			7980	7.693	32.387	7.816	32.724	-1.57%	-1.03%
			8000	7.707	32.282	7.840	32.700	-1.70%	-1.28%

The above measured tissue parameters were used in DASY software. The DASY software was used to perform interpolation to determine the dielectric parameters at the SAR test device frequencies (per KDB Publication 865664 D01v01r04 and IEEE 1528-2013 6.6.1.2). The tissue parameters listed in the SAR test plots may slightly differ from the table above due to significant digit rounding in the software.

Note: Per April 2019 TCB Workshop Notes, single head-tissue simulating liquid specified in IEC 62209-1 is permitted to use for all SAR tests.

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8.2 Test System Verification

Prior to SAR assessment, the system is verified to ±10% of the SAR measurement on the reference dipole at the time of calibration by the calibration facility. Full system validation status and result summary can be found in the SAR System Validation Appendix.

Table 8-2
System Verification Results

SAR System	Tissue Frequency (MHz)	Tissue Type	Date	Amb. Temp. (C)	Liquid Temp. (C)	Input Power (W)	Source SN	Probe SN	DAE	Measured SAR 1g (W/kg)	1W Target SAR 1g (W/kg)	1W Normalized SAR 1g (W/kg)	Deviation 1g (%)	Measured SAR 10g (W/kg)	1W Target SAR 10g (W/kg)	1W Normalized SAR 10g (W/kg)	Deviation 10g (%)	Measured 4cm2 APD (W/m2)	1W Target 4cm2 APD (W/m2)	1W Normalized 4cm2 APD (W/m2)	Deviation 4cm2 APD (%)
AM14	13	HEAD	07/17/2025	21.3	23.0	1.00	1004	3746	1237	0.597	0.575	0.597	-3.83%	0.366	0.355	0.366	-3.10%				
AM16	2450	HEAD	05/20/2025	23.0	23.2	0.10	855	7532	501	5.270	52.400	52.700	0.57%	2.380	24.600	23.800	-3.25%				
AM16	2450	HEAD	07/16/2025	22.6	23.4	0.10	855	7532	501	5.310	52.400	53.100	1.34%	2.420	24.600	24.200	-1.63%				
AM8	5250	HEAD	05/19/2025	21.3	21.0	0.05	1066	7499	1465	4.190	77.900	83.800	7.57%	1.200	22.500	24.000	6.67%				
AM8	5500	HEAD	05/19/2025	21.3	21.0	0.05	1066	7499	1465	4.200	81.800	84.000	2.69%	1.200	23.700	24.000	1.27%				
AM8	5750	HEAD	05/19/2025	21.3	21.0	0.05	1066	7499	1465	4.040	80.700	80.800	0.12%	1.160	23.200	23.200	0.00%				
AM9	5850	HEAD	07/09/2025	21.1	19.0	0.05	1066	7782	1646	4.060	77.400	81.200	4.91%	1.150	22.200	23.000	3.60%				
AM2	6500	HEAD	08/01/2025	21.9	20.6	0.025	1019	3949	1684	7.250	300.000	290.000	-3.33%	1.340	55.100	53.600	-2.72%	32.5	1340	1300	-2.99%

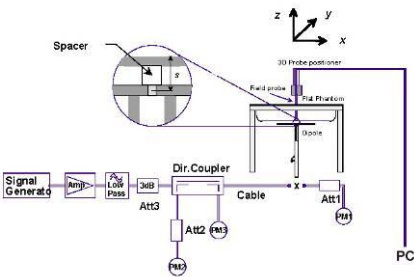


Figure 8-1
System Verification Setup Diagram



Figure 8-2
System Verification Setup Photo

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8.3 Power Density Test System Verification

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.

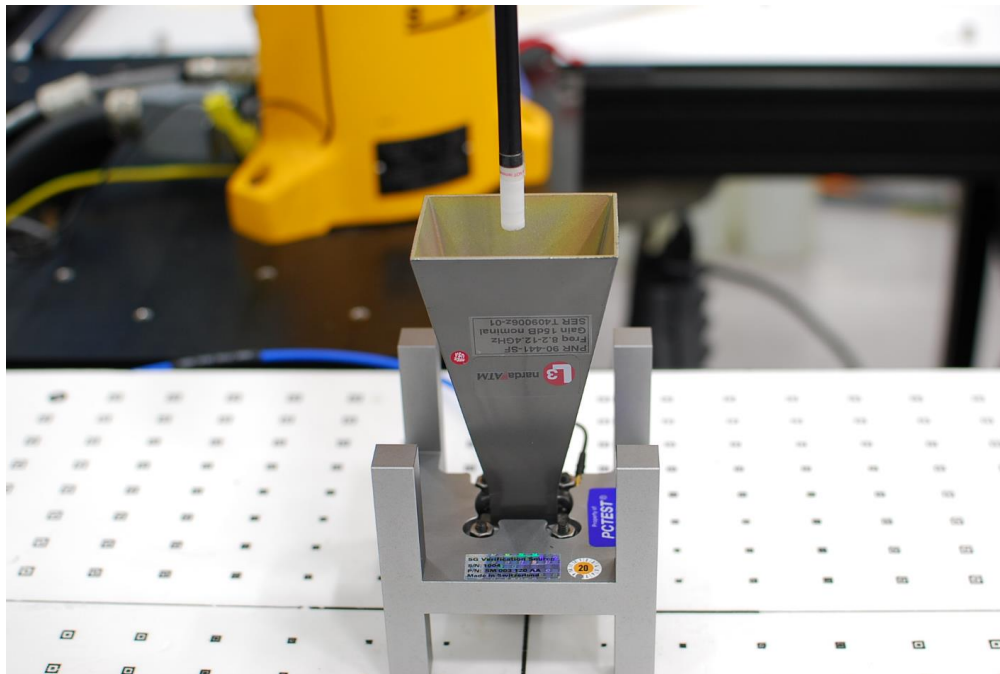


Figure 8-3
System Verification Setup Photo

Table 8-3
10 GHz Verification Results

System Verification												
System	Frequency (GHz)	Date	Source S/N	DAE S/N	Probe S/N	Prad (mW)	Normal psPD (W/m ² over 4 cm ²)		Deviation (dB)	Total psPD (W/m ² over 4 cm ²)		Deviation (dB)
							Measured	Target		Measured	Target	
AM5	10	07/29/2025	1006	1402	9407	93.3	55.00	57.90	-0.22	55.10	58.10	-0.23
AM5	10	08/03/2025	1006	1402	9407	93.3	60.50	57.90	0.19	60.70	58.10	0.19

Note: A **10 mm distance spacing** was used from the reference horn antenna aperture to the probe element.

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9 SAR DATA SUMMARY

9.1 2.4 GHz WIFI SISO Standalone SAR

Table 9-1 Antenna WF8

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Body	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	WF8	HQ8XD	97.87	-0.03	2412	1	1.0	19.25	19.25	Back	5	1.150	0.592	1.009	1.022	1.586	0.610	0.741	
Body	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	WF8	HQ8XD	97.87	-0.06	2437	6	1.0	19.25	19.24	Back	5	1.120	0.570	1.002	1.022	1.547	0.584	0.717	
Body	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	WF8	HQ8XD	97.87	-0.03	2462	11	1.0	19.25	19.18	Back	5	1.140	0.551	1.016	1.022	1.584	0.572	0.740	
Body	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	WF8	HQ8XD	97.87	-0.07	2437	6	1.0	19.25	19.28	Top	5	0.574	0.221	1.002	1.022	0.588	0.226	0.368	
Body	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	WF8	HQ8XD	97.87	-0.11	2437	6	1.0	19.25	19.24	Bottom	5	0.046	0.023	1.002	1.022	0.047	0.024	0.029	
Body	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	WF8	HQ8XD	97.87	-0.03	2437	6	1.0	19.25	19.24	Right	5	0.544	0.238	1.002	1.022	0.557	0.244	0.348	
Body	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	WF8	HQ8XD	97.87	0.05	2437	6	1.0	19.25	19.24	Left	5	0.007	0.000	1.002	1.022	0.007	0.003	0.004	
ANSI/IEEE C63.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population															Body 1.6 W/kg (mW/g) averaged over 1 gram							

Table 9-2 Antenna WF7

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Body	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	WF7	QCQGP	97.87	-0.11	2412	1	1.0	19.50	19.37	Back	5	1.130	0.536	1.030	1.022	1.590	0.564	0.744	
Body	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	WF7	QCQGP	97.87	-0.01	2437	6	1.0	19.50	19.43	Back	5	1.050	0.482	1.016	1.022	1.049	0.500	0.656	
Body	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	WF7	QCQGP	97.87	-0.06	2462	11	1.0	19.50	19.26	Back	5	1.080	0.514	1.057	1.022	1.167	0.555	0.729	
Body	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	WF7	QCQGP	97.87	-0.02	2437	6	1.0	19.50	19.43	Top	5	0.525	0.209	1.016	1.022	0.545	0.216	0.341	
Body	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	WF7	QCQGP	97.87	-0.06	2437	6	1.0	19.50	19.43	Bottom	5	0.000	0.014	1.016	1.022	0.011	0.015	0.019	
Body	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	WF7	QCQGP	97.87	-0.05	2437	6	1.0	19.50	19.43	Right	5	0.002	0.000	1.016	1.022	0.002	0.000	0.001	
Body	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	WF7	QCQGP	97.87	-0.03	2412	1	1.0	19.50	19.37	Left	5	0.862	0.398	1.030	1.022	0.907	0.419	0.567	
Body	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	WF7	QCQGP	97.87	-0.01	2437	6	1.0	19.50	19.43	Left	5	0.865	0.401	1.016	1.022	0.898	0.416	0.561	
Body	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	WF7	QCQGP	97.87	0.00	2462	11	1.0	19.50	19.26	Left	5	0.906	0.416	1.057	1.022	0.979	0.449	0.612	
ANSI/IEEE C63.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population															Body 1.6 W/kg (mW/g) averaged over 1 gram							

Table 9-3 Antenna WF9

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Body	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	WF9	QCQGP	97.87	-0.05	2412	1	1.0	20.75	20.54	Back	5	1.060	0.536	1.050	1.022	1.137	0.575	0.711	
Body	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	WF9	QCQGP	97.87	-0.01	2437	6	1.0	20.75	20.71	Back	5	1.140	0.559	1.007	1.022	1.584	0.616	0.746	
Body	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	WF9	QCQGP	97.87	-0.05	2462	11	1.0	20.75	20.45	Back	5	1.177	0.589	1.007	1.022	1.553	0.605	0.721	
Body	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	WF9	QCQGP	97.87	-0.05	2462	11	1.0	20.75	20.45	Back	5	0.942	0.479	1.072	1.022	1.032	0.525	0.645	
Body	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	WF9	QCQGP	97.87	-0.04	2437	6	1.0	20.75	20.72	Top	5	0.019	0.177	1.007	1.022	0.487	0.182	0.304	
Body	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	WF9	QCQGP	97.87	-0.02	2437	6	1.0	20.75	20.72	Bottom	5	0.000	0.000	1.007	1.022	0.000	0.000	0.000	
Body	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	WF9	QCQGP	97.87	-0.03	2437	6	1.0	20.75	20.72	Right	5	0.000	0.000	1.007	1.022	0.000	0.000	0.000	
Body	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	WF9	QCQGP	97.87	-0.04	2437	6	1.0	20.75	20.72	Left	5	0.039	0.019	1.007	1.022	0.040	0.020	0.025	
ANSI/IEEE C63.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population															Body 1.6 W/kg (mW/g) averaged over 1 gram							

Note: Blue entry represents variability measurement

9.2 5 GHz WIFI SISO Standalone SAR

Table 9-4 Antenna WF5B

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NII band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Body	5 GHz WiFi / IEEE 802.11n	40	OFDM	WF5B	KVCGW	97.95	-0.16	5270	54	U-NII-2A	13.5	20.00	19.05	Back	5	0.066	0.027	1.245	1.021	0.084	0.034	0.053	
Body	5 GHz WiFi / IEEE 802.11n	40	OFDM	WF5B	KVCGW	97.95	-0.04	5270	54	U-NII-2A	13.5	20.00	19.05	Top	5	0.000	0.000	1.245	1.021	0.000	0.000	0.000	
Body	5 GHz WiFi / IEEE 802.11n	40	OFDM	WF5B	KVCGW	97.95	-0.06	5270	54	U-NII-2A	13.5	20.00	19.05	Bottom	5	0.059	0.024	1.245	1.021	0.075	0.031	0.047	
Body	5 GHz WiFi / IEEE 802.11n	40	OFDM	WF5B	KVCGW	97.95	-0.00	5270	54	U-NII-2A	13.5	20.00	19.05	Right	5	0.620	0.249	1.245	1.021	0.788	0.317	0.493	
Body	5 GHz WiFi / IEEE 802.11n	40	OFDM	WF5B	KVCGW	97.95	-0.01	5270	54	U-NII-2A	13.5	20.00	19.05	Left	5	0.031	0.013	1.245	1.021	0.039	0.017	0.024	
ANSI/IEEE C63.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population															Body 1.6 W/kg (mW/g) averaged over 1 gram								

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Table 9-5 Antenna WF5B

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NII band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	WF5B	KVCGW	97.87	-0.10	5690	138	U-NII-2C	29.3	20.00	19.82	Back	5	0.107	0.041	1.042	1.022	0.114	0.044	0.071	
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	WF5B	KVCGW	97.87	0.07	5690	138	U-NII-2C	29.3	20.00	19.82	Top	5	0.000	0.000	1.042	1.022	0.000	0.000	0.000	
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	WF5B	KVCGW	97.87	0.09	5690	138	U-NII-2C	29.3	20.00	19.82	Bottom	5	0.114	0.045	1.042	1.022	0.121	0.048	0.076	
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	WF5B	KVCGW	97.87	-0.05	5530	106	U-NII-2C	29.3	14.00	12.86	Right	5	0.124	0.042	1.300	1.022	0.105	0.056	0.103	
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	WF5B	KVCGW	97.87	0.02	5610	122	U-NII-2C	29.3	18.50	16.80	Right	5	0.385	0.142	1.479	1.022	0.582	0.215	0.364	
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	WF5B	KVCGW	97.87	-0.05	5690	138	U-NII-2C	29.3	20.00	19.82	Right	5	0.908	0.346	1.042	1.022	0.967	0.388	0.404	
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	WF5B	KVCGW	97.87	0.07	5690	138	U-NII-2C	29.3	20.00	19.82	Left	5	0.055	0.021	1.042	1.022	0.059	0.022	0.037	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																Body 1.6 W/kg (mW/g) averaged over 1 gram							

Table 9-6 Antenna WF5B

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NII band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Body	5 GHz WIF/ IEEE 802.11n	40	OFDM	WF5B	HQKXD	97.95	0.02	5795	159	U-NII-3	13.5	20.00	19.19	Back	5	0.080	0.032	1.205	1.021	0.098	0.039	0.061	
Body	5 GHz WIF/ IEEE 802.11n	40	OFDM	WF5B	HQKXD	97.95	0.01	5795	159	U-NII-3	13.5	20.00	19.19	Top	5	0.000	0.000	1.205	1.021	0.000	0.000	0.000	
Body	5 GHz WIF/ IEEE 802.11n	40	OFDM	WF5B	HQKXD	97.95	0.09	5795	159	U-NII-3	13.5	20.00	19.19	Bottom	5	0.097	0.038	1.205	1.021	0.119	0.047	0.074	
Body	5 GHz WIF/ IEEE 802.11n	40	OFDM	WF5B	HQKXD	97.95	0.06	5270	54	U-NII-2A	13.5	17.00	16.17	Bottom	5	0.791	0.297	1.216	1.021	0.998	0.375	0.624	
Body	5 GHz WIF/ IEEE 802.11n	40	OFDM	WF5B	HQKXD	97.95	-0.09	5795	159	U-NII-3	13.5	20.00	19.19	Right	5	0.771	0.292	1.205	1.021	0.949	0.359	0.593	
Body	5 GHz WIF/ IEEE 802.11n	40	OFDM	WF5B	HQKXD	97.95	0.04	5795	159	U-NII-3	13.5	20.00	19.19	Left	5	0.030	0.012	1.205	1.021	0.037	0.015	0.023	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																Body 1.6 W/kg (mW/g) averaged over 1 gram							

Table 9-7 Antenna WF8

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NII band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Body	5 GHz WIF/ IEEE 802.11n	40	OFDM	WF8	QCPGP	97.95	-0.02	5270	54	U-NII-2A	13.5	17.00	16.17	Back	5	0.622	0.193	1.211	1.021	0.769	0.239	0.481	
Body	5 GHz WIF/ IEEE 802.11n	40	OFDM	WF8	QCPGP	97.95	0.04	5270	54	U-NII-2A	13.5	17.00	16.17	Top	5	0.174	0.063	1.211	1.021	0.215	0.078	0.134	
Body	5 GHz WIF/ IEEE 802.11n	40	OFDM	WF8	QCPGP	97.95	0.06	5270	54	U-NII-2A	13.5	17.00	16.17	Bottom	5	1.051	0.326	1.211	1.021	0.910	0.280	0.505	
Body	5 GHz WIF/ IEEE 802.11n	40	OFDM	WF8	QCPGP	97.95	-0.02	5270	54	U-NII-2A	13.5	17.00	16.17	Right	5	0.758	0.246	1.211	1.021	0.937	0.304	0.586	
Body	5 GHz WIF/ IEEE 802.11n	40	OFDM	WF8	QCPGP	97.95	0.01	5310	62	U-NII-2A	13.5	16.50	15.70	Right	5	0.632	0.203	1.202	1.021	0.776	0.249	0.485	
Body	5 GHz WIF/ IEEE 802.11n	40	OFDM	WF8	QCPGP	97.95	0.09	5270	54	U-NII-2A	13.5	17.00	16.17	Left	5	0.026	0.002	1.211	1.021	0.020	0.002	0.013	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																Body 1.6 W/kg (mW/g) averaged over 1 gram							

Table 9-8 Antenna WF8

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NII band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	WF8	HQKXD	97.87	-0.19	5610	122	U-NII-2C	29.3	16.00	15.15	Back	5	0.401	0.135	1.216	1.022	0.498	0.168	0.311	
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	WF8	HQKXD	97.87	0.06	5610	122	U-NII-2C	29.3	16.00	15.15	Top	5	0.196	0.076	1.216	1.022	0.244	0.087	0.153	
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	WF8	HQKXD	97.87	0.04	5610	122	U-NII-2C	29.3	16.00	15.15	Bottom	5	0.860	0.303	1.216	1.022	0.812	0.264	0.498	
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	WF8	HQKXD	97.87	0.06	5530	106	U-NII-2C	29.3	14.00	12.82	Right	5	0.569	0.181	1.282	1.022	0.746	0.237	0.466	
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	WF8	HQKXD	97.87	-0.18	5610	122	U-NII-2C	29.3	16.00	15.15	Right	5	0.916	0.299	1.216	1.022	1.118	0.372	0.711	
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	WF8	HQKXD	97.87	-0.10	5690	138	U-NII-2C	29.3	16.00	15.15	Right	5	0.941	0.307	1.230	1.022	1.181	0.386	0.739	
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	WF8	HQKXD	97.87	0.07	5610	122	U-NII-2C	29.3	16.00	15.15	Left	5	0.000	0.000	1.216	1.022	0.000	0.000	0.000	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																Body 1.6 W/kg (mW/g) averaged over 1 gram							

Table 9-9 Antenna WF8

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NII band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	WF8	QCPGP	97.87	0.05	5775	155	U-NII-3	29.3	18.00	17.41	Back	5	0.491	0.161	1.146	1.022	0.575	0.189	0.359	
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	WF8	QCPGP	97.87	0.05	5775	155	U-NII-3	29.3	18.00	17.41	Top	5	0.185	0.066	1.146	1.022	0.221	0.077	0.138	
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	WF8	QCPGP	97.87	0.01	5775	155	U-NII-3	29.3	18.00	17.41	Bottom	5	0.021	0.009	1.146	1.022	0.027	0.011	0.017	
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	WF8	QCPGP	97.87	-0.10	5775	155	U-NII-3	29.3	18.00	17.41	Right	5	0.485	0.155	1.146	1.022	1.158	0.374	0.724	
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	WF8	QCPGP	97.87	-0.02	5775	155	U-NII-3	29.3	18.00	17.41	Right	5	0.991	0.321	1.146	1.022	1.161	0.376	0.726	
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	WF8	QCPGP	97.87	0.06	5775	155	U-NII-3	29.3	18.00	17.41	Left	5	0.000	0.000	1.146	1.022	0.000	0.000	0.000	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																Body 1.6 W/kg (mW/g) averaged over 1 gram							

Note: Blue entry represents variability measurement.

Table 9-10 Antenna WF7

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NII band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Body	5 GHz WIF/ IEEE 802.11n	40	OFDM	WF7	273CD	97.95	-0.19	5190	38	U-NII-1	13.5	15.50	14.66	Back	5	0.378	0.130	1.213	1.021	0.468	0.161	0.293	
Body	5 GHz WIF/ IEEE 802.11n	40	OFDM	WF7	273CD	97.95	-0.11	5230	46	U-NII-1	13.5	18.00	17.02	Back	5	0.672	0.234	1.253	1.021	0.860	0.299	0.538	
Body	5 GHz WIF/ IEEE 802.11n	40	OFDM	WF7	273CD	97.95	-0.08	5230	46	U-NII-1	13.5	18.00	17.02	Top	5	0.225	0.074	1.253	1.021	0.285	0.095	0.178	
Body	5 GHz WIF/ IEEE 802.11n	40	OFDM	WF7	273CD	97.95	0.05	5230	46	U-NII-1	13.5	18.00	17.02	Bottom	5	0.011	0.004	1.253	1.021	0.014	0.005	0.009	
Body	5 GHz WIF/ IEEE 802.11n	40	OFDM	WF7	273CD	97.95	0.01	5230	46	U-NII-1	13.5	18.00	17.02	Right	5	0.003	0.000	1.253	1.021	0.004	0.000	0.003	
Body	5 GHz WIF/ IEEE 802.11n	40	OFDM	WF7	273CD	97.95	0.16	5230	46	U-NII-1	13.5	18.00	17.02	Left	5	0.174	0.059	1.253	1.021	0.223	0.075	0.139	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																Body 1.6 W/kg (mW/g) averaged over 1 gram							

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Approved by:

Technical Manager

DUT Type:
Tablet Device

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Table 9-11 Antenna WF7

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NII band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	WF7	XSLT0	97.87	-0.05	5530	106	U-NII-2C	29.3	14.00	13.02	Back	5	0.411	0.138	1.253	1.022	0.526	0.177	0.329	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	WF7	XSLT0	97.87	-0.11	5610	122	U-NII-2C	29.3	16.75	16.23	Back	5	0.993	0.337	1.127	1.022	1.144	0.388	0.715	A2
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	WF7	XSLT0	97.87	-0.05	5610	122	U-NII-2C	29.3	16.75	16.23	Back	5	0.993	0.337	1.127	1.022	1.144	0.388	0.715	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	WF7	XSLT0	97.87	0.01	5690	138	U-NII-2C	29.3	16.75	16.26	Back	5	0.794	0.270	1.119	1.022	0.908	0.309	0.568	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	WF7	XSLT0	97.87	0.07	5690	138	U-NII-2C	29.3	16.75	16.26	Top	5	0.229	0.080	1.119	1.022	0.273	0.103	0.171	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	WF7	XSLT0	97.87	0.12	5690	138	U-NII-2C	29.3	16.75	16.26	Bottom	5	0.022	0.005	1.119	1.022	0.025	0.006	0.016	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	WF7	XSLT0	97.87	0.05	5690	138	U-NII-2C	29.3	16.75	16.26	Right	5	0.000	0.000	1.119	1.022	0.000	0.000	0.000	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	WF7	XSLT0	97.87	0.03	5690	138	U-NII-2C	29.3	16.75	16.26	Left	5	0.109	0.044	1.119	1.022	0.125	0.050	0.078	
ANSI/IEEE C95.1.1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																Body 1.6 W/kg (mW/g) averaged over 1 gram							

Note: Blue entry represents variability measurement

Table 9-12 Antenna WF7

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NII band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	WF7	QQPQP	97.87	-0.07	5775	155	U-NII-3	29.3	17.75	16.89	Back	5	0.930	0.319	1.219	1.022	1.159	0.397	0.724	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	WF7	QQPQP	97.87	-0.01	5775	155	U-NII-3	29.3	17.75	16.89	Top	5	0.342	0.126	1.219	1.022	0.436	0.157	0.266	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	WF7	QQPQP	97.87	0.07	5775	155	U-NII-3	29.3	17.75	16.89	Bottom	5	0.025	0.007	1.219	1.022	0.031	0.009	0.019	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	WF7	QQPQP	97.87	0.11	5775	155	U-NII-3	29.3	17.75	16.89	Right	5	0.000	0.000	1.219	1.022	0.000	0.000	0.000	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	WF7	QQPQP	97.87	-0.08	5775	155	U-NII-3	29.3	17.75	16.89	Left	5	0.120	0.049	1.219	1.022	0.149	0.061	0.093	
ANSI/IEEE C95.1.1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																Body 1.6 W/kg (mW/g) averaged over 1 gram							

9.3 6 GHz WIFI SISO Standalone SAR and APD

Table 9-13 Antenna WF5B

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF5B	MY4R3	97.92	0.04	6025	15	68.1	15.75	14.63	Back	5	0.023	0.009	1.300	1.021	0.031	0.012	0.019	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF5B	MY4R3	97.92	0.07	6025	15	68.1	15.75	14.63	Top	5	0.001	0.000	1.300	1.021	0.001	0.000	0.001	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF5B	MY4R3	97.92	0.07	6025	15	68.1	15.75	14.63	Bottom	5	0.004	0.009	1.300	1.021	0.032	0.012	0.020	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF5B	MY4R3	97.92	-0.05	6025	15	68.1	15.75	14.63	Right	5	0.182	0.071	1.300	1.021	0.242	0.094	0.151	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF5B	MY4R3	97.92	-0.19	6345	79	68.1	15.00	14.05	Right	5	0.212	0.080	1.245	1.021	0.269	0.102	0.168	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF5B	MY4R3	97.92	0.00	6505	111	68.1	14.25	13.81	Right	5	0.258	0.082	1.107	1.021	0.246	0.093	0.154	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF5B	MY4R3	97.92	-0.01	6665	143	68.1	13.50	12.94	Right	5	0.295	0.097	1.138	1.021	0.296	0.113	0.185	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF5B	MY4R3	97.92	0.05	6985	207	68.1	14.50	12.90	Right	5	0.300	0.075	1.445	1.021	0.295	0.111	0.184	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF5B	MY4R3	97.92	0.03	6025	15	68.1	15.75	14.63	Left	5	0.000	0.000	1.300	1.021	0.000	0.000	0.000	
ANSI/IEEE C95.1.1992 - SAFETY LIMIT																Body						
Spatial Peak																1.6 W/kg (mW/g)						
Uncontrolled Exposure/General Population																averaged over 1 gram						
Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured APD [W/m ² (4cm ²)]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported APD [W/m ² (4cm ²)]	APD Exposure Ratio	Plot #		
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF5B	MY4R3	97.92	0.04	6025	15	68.1	15.75	14.63	Back	5	0.198	1.300	1.011	0.260	0.013			
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF5B	MY4R3	97.92	0.07	6025	15	68.1	15.75	14.63	Top	5	0.014	1.300	1.011	0.018	0.001			
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF5B	MY4R3	97.92	0.07	6025	15	68.1	15.75	14.63	Bottom	5	0.207	1.300	1.011	0.272	0.014			
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF5B	MY4R3	97.92	-0.05	6025	15	68.1	15.75	14.63	Right	5	1.580	1.300	1.011	2.077	0.104			
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF5B	MY4R3	97.92	-0.19	6345	79	68.1	15.00	14.05	Right	5	1.800	1.245	1.011	2.266	0.113			
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF5B	MY4R3	97.92	0.00	6505	111	68.1	14.25	13.81	Right	5	1.830	1.107	1.011	2.048	0.102			
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF5B	MY4R3	97.92	-0.01	6665	143	68.1	13.50	12.94	Right	5	2.150	1.138	1.011	2.474	0.124			
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF5B	MY4R3	97.92	0.05	6985	207	68.1	14.50	12.90	Right	5	1.670	1.445	1.011	2.440	0.122			
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF5B	MY4R3	97.92	0.03	6025	15	68.1	15.75	14.63	Left	5	0.000	1.300	1.011	0.000	0.000			

Table 9-14 Antenna WF8

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF8	MY4R3	97.74	-0.15	6025	15	68.1	12.00	11.07	Back	5	0.292	0.090	1.239	1.023	0.370	0.114	0.231	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF8	MY4R3	97.74	-0.20	6345	79	68.1	11.75	10.30	Back	5	0.309	0.080	1.396	1.023	0.441	0.131	0.276	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF8	MY4R3	97.74	-0.14	6505	111	68.1	11.00	9.20	Back	5	0.253	0.074	1.514	1.023	0.392	0.115	0.245	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF8	MY4R3	97.74	-0.16	6665	143	68.1	11.00	9.20	Back	5	0.402	0.112	1.396	1.023	0.576	0.160	0.359	A3
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF8	MY4R3	97.74	-0.14	6985	207	68.1	10.75	9.97	Back	5	0.382	0.106	1.197	1.023	0.468	0.130	0.293	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF8	MY4R3	97.74	0.05	6025	15	68.1	12.00	11.07	Bottom	5	0.007	0.003	1.239	1.023	0.008	0.004	0.003	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF8	MY4R3	97.74	0.03	6025	15	68.1	12.00	11.07	Bottom	5	0.007	0.003	1.239	1.023	0.009	0.004	0.006	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF8	MY4R3	97.74	-0.20	6025	15	68.1	12.00	11.07	Right	5	0.281	0.093	1.239	1.023	0.356	0.118	0.223	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF8	MY4R3	97.74	0.07	6025	15	68.1	12.00	11.07	Left	5	0.003	0.001	1.239	1.023	0.004	0.001	0.003	
ANSI/IEEE C95.1.1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																Body 1.6 W/kg (mW/g) averaged over 1 gram						
Exposure	Band / Mode	Bandwidth [MHz]	Service/ Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured APD [W/m ² (4cm ²)]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported APD [W/m ² (4cm ²)]	APD Exposure Ratio	Plot #		
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF8	MY4R3	97.74	-0.15	6025	15	68.1	12.00	11.07	Back	5	2.030	1.239	1.013	2.548	0.127			
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF8	MY4R3	97.74	-0.20	6345	79	68.1	11.75	10.30	Back	5	2.080	1.396	1.013	2.941	0.147			
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF8	MY4R3	97.74	-0.14	6505	111	68.1	11.00	9.20	Back	5	1.700	1.514	1.013	2.607	0.130			
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF8	MY4R3	97.74	-0.15	6665	143	68.1	11.00	9.20	Back	5	2.570	1.396	1.013	3.634	0.182			
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF8	MY4R3	97.74	-0.14	6985	207	68.1	10.75	9.97	Back	5	2.440	1.197	1.013	2.959	0.148			
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF8	MY4R3	97.74	0.05	6025	15	68.1	12.00	11.07	Top	5	0.447	1.239	1.013	0.561	0.028			
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF8	MY4R3	97.74	0.03	6025	15	68.1	12.00	11.07	Bottom	5	0.008	1.239	1.013	0.035	0.004			
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF8	MY4R3	97.74	-0.20	6025	15	68.1	12.00	11.07	Right	5	2.180	1.239	1.013	2.816	0.132			
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF8	MY4R3	97.74	0.07	6025	15	68.1	12.00	11.07	Left	5	0.024	1.239	1.013	0.030	0.002			

Table 9-15 Antenna WF7

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF7	MY4R3	97.74	0.03	6025	15	68.1	14.50	13.60	Back	5	0.273	0.095	1.230	1.023	0.344	0.115	0.215	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF7	MY4R3	97.74	-0.09	6345	79	68.1	14.75	13.12	Back	5	0.357	0.115	1.455	1.023	0.531	0.171	0.332	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF7	MY4R3	97.74	-0.07	6505	111	68.1	14.00	13.85	Back	5	0.339	0.112	1.035	1.023	0.359	0.119	0.224	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF7	MY4R3	97.74	-0.07	6665	143	68.1	13.75	13.32	Back	5	0.262	0.089	1.104	1.023	0.228	0.078	0.143	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF7	MY4R3	97.74	-0.06	6985	207	68.1	13.75	13.78	Back	5	0.280	0.093	1.250	1.023	0.379	0.088	0.112	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF7	MY4R3	97.74	0.03	6345	79	68.1	14.75	13.12	Top	5	0.113	0.040	1.455	1.023	0.168	0.060	0.105	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF7	MY4R3	97.74	0.02	6345	79	68.1	14.75	13.12	Bottom	5	0.009	0.004	1.455	1.023	0.013	0.006	0.008	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF7	MY4R3	97.74	0.09	6345	79	68.1	14.75	13.12	Right	5	0.000	0.000	1.455	1.023	0.000	0.000	0.000	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF7	MY4R3	97.74	0.02	6345	79	68.1	14.75	13.12	Left	5	0.066	0.022	1.455	1.023	0.083	0.033	0.052	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT														Body Spatial Peak 1.6 W/kg (mW/g) averaged over 1 gram								
Uncontrolled Exposure/General Population																						
Exposure	Band/ Mode	Bandwidth [MHz]	Service/ Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured APD [W/m² (4cm²)]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported APD [W/m² (4cm²)]	APD Exposure Ratio	Plot #		
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF7	MY4R3	97.74	0.03	6025	15	68.1	14.50	13.60	Back	5	2.060	1.230	1.013	2.567	0.128			
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF7	MY4R3	97.74	-0.09	6345	79	68.1	14.75	13.12	Back	5	2.610	1.455	1.013	3.847	0.192			
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF7	MY4R3	97.74	-0.07	6505	111	68.1	14.00	13.85	Back	5	2.540	1.035	1.013	2.663	0.133			
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF7	MY4R3	97.74	0.07	6665	143	68.1	13.75	13.32	Back	5	1.560	1.104	1.013	1.745	0.087			
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF7	MY4R3	97.74	-0.06	6985	207	68.1	13.75	12.78	Back	5	1.180	1.250	1.013	1.494	0.075			
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF7	MY4R3	97.74	0.03	6345	79	68.1	14.75	13.12	Top	5	0.896	1.455	1.013	1.321	0.066			
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF7	MY4R3	97.74	0.02	6345	79	68.1	14.75	13.12	Bottom	5	0.087	1.455	1.013	0.128	0.006			
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF7	MY4R3	97.74	0.09	6345	79	68.1	14.75	13.12	Right	5	0.000	1.455	1.013	0.000	0.000			
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF7	MY4R3	97.74	0.02	6345	79	68.1	14.75	13.12	Left	5	0.486	1.455	1.013	0.716	0.036			

9.4 2.4 GHz Bluetooth SISO Standalone SAR

Table 9-16 Antenna WF8

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Body	2.4 GHz Bluetooth	tkoosrk	WF8	JCRFO	76.87	0.00	2402	0	2	16.50	15.52	Back	5	0.425	0.215	1.253	1.301	0.693	0.350	0.433	A4
Body	2.4 GHz Bluetooth	tkoosrk	WF8	JCRFO	76.87	0.00	2402	0	2	16.50	15.52	Top	5	0.181	0.079	1.253	1.301	0.295	0.119	0.184	
Body	2.4 GHz Bluetooth	tkoosrk	WF8	JCRFO	76.87	0.15	2402	0	2	16.50	15.52	Bottom	5	0.017	0.009	1.253	1.301	0.028	0.015	0.018	
Body	2.4 GHz Bluetooth	tkoosrk	WF8	JCRFO	76.87	-0.02	2402	0	2	16.50	15.52	Right	5	0.265	0.103	1.253	1.301	0.551	0.269	0.332	
Body	2.4 GHz Bluetooth	tkoosrk	WF8	JCRFO	76.87	-0.04	2402	0	2	16.50	15.52	Left	5	0.000	0.000	1.253	1.301	0.000	0.000	0.000	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT														Body Spatial Peak 1.6 W/kg (mW/g) averaged over 1 gram							
Uncontrolled Exposure/General Population																					

Table 9-17 Antenna WF7

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Body	2.4 GHz Bluetooth	GFSK	WF7	WCN09	76.68	-0.06	2480	78	1	17.50	16.58	Back	5	0.375	0.184	1.236	1.304	0.604	0.297	0.378	
Body	2.4 GHz Bluetooth	GFSK	WF7	WCN09	76.68	0.02	2480	78	1	17.50	16.58	Top	5	0.211	0.083	1.236	1.304	0.340	0.134	0.213	
Body	2.4 GHz Bluetooth	GFSK	WF7	WCN09	76.68	-0.09	2480	78	1	17.50	16.58	Bottom	5	0.015	0.007	1.236	1.304	0.024	0.011	0.015	
Body	2.4 GHz Bluetooth	GFSK	WF7	WCN09	76.68	0.06	2480	78	1	17.50	16.58	Right	5	0.000	0.000	1.236	1.304	0.000	0.000	0.000	
Body	2.4 GHz Bluetooth	GFSK	WF7	WCN09	76.68	-0.05	2480	78	1	17.50	16.58	Left	5	0.222	0.110	1.236	1.304	0.358	0.177	0.224	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT														Body Spatial Peak 1.6 W/kg (mW/g) averaged over 1 gram							
Uncontrolled Exposure/General Population																					

Table 9-18 Antenna WF9

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Body	2.4 GHz Bluetooth	GFSK	WF9	JCRFO	76.75	0.01	2480	78	1	17.50	16.86	Back	5	0.390	0.205	1.159	1.303	0.589	0.310	0.368	
Body	2.4 GHz Bluetooth	GFSK	WF9	JCRFO	76.75	0.04	2480	78	1	17.50	16.86	Top	5	0.179	0.069	1.159	1.303	0.270	0.104	0.169	
Body	2.4 GHz Bluetooth	GFSK	WF9	JCRFO	76.75	0.01	2480	78	1	17.50	16.86	Bottom	5	0.002	0.000	1.159	1.303	0.003	0.000	0.002	
Body	2.4 GHz Bluetooth	GFSK	WF9	JCRFO	76.75	0.07	2480	78	1	17.50	16.86	Right	5	0.000	0.000	1.159	1.303	0.000	0.000	0.000	
Body	2.4 GHz Bluetooth	GFSK	WF9	JCRFO	76.75	0.07	2480	78	1	17.50	16.86	Left	5	0.017	0.008	1.159	1.303	0.026	0.012	0.016	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT														Body Spatial Peak 1.6 W/kg (mW/g) averaged over 1 gram							
Uncontrolled Exposure/General Population																					

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9.5 802.15.4 Standalone SAR

Table 9-19 Antenna WF8

Exposure	Band / Mode	Ant.	Serial Number	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Body	802.15.4	WF8	JCRF0	-0.03	2405	11	1	18.00	17.27	Back	5	0.851	0.428	1.183	1.007	0.506	0.629	
Body	802.15.4	WF8	JCRF0	-0.02	2440	18	1	18.00	17.29	Back	5	0.819	0.415	1.178	0.965	0.489	0.603	
Body	802.15.4	WF8	JCRF0	-0.05	2475	25	1	18.00	17.42	Back	5	0.929	0.468	1.143	1.062	0.535	0.664	AS
Body	802.15.4	WF8	JCRF0	0.00	2475	25	1	18.00	17.42	Top	5	0.520	0.193	1.143	0.594	0.221	0.371	
Body	802.15.4	WF8	JCRF0	-0.12	2475	25	1	18.00	17.42	Bottom	5	0.032	0.016	1.143	0.037	0.018	0.023	
Body	802.15.4	WF8	JCRF0	0.00	2405	11	1	18.00	17.27	Right	5	0.659	0.298	1.183	0.780	0.353	0.488	
Body	802.15.4	WF8	JCRF0	-0.03	2440	18	1	18.00	17.29	Right	5	0.601	0.276	1.178	0.708	0.325	0.443	
Body	802.15.4	WF8	JCRF0	0.01	2475	25	1	18.00	17.42	Right	5	0.736	0.341	1.143	0.841	0.390	0.526	
Body	802.15.4	WF8	JCRF0	0.02	2475	25	1	18.00	17.42	Left	5	0.005	0.002	1.143	0.006	0.002	0.004	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population										Body 1.6 W/kg (mW/g) averaged over 1 gram								

Table 9-20 Antenna WF7

Exposure	Band / Mode	Ant.	Serial Number	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Body	802.15.4	WF7	WCNQ9	0.00	2405	11	1	19.50	18.69	Back	5	0.767	0.374	1.205	0.924	0.451	0.578	
Body	802.15.4	WF7	WCNQ9	0.02	2440	18	1	19.50	18.60	Back	5	0.596	0.297	1.230	0.733	0.365	0.458	
Body	802.15.4	WF7	WCNQ9	0.02	2475	25	1	19.50	18.40	Back	5	0.641	0.317	1.288	0.826	0.408	0.516	
Body	802.15.4	WF7	WCNQ9	0.00	2405	11	1	19.50	18.69	Top	5	0.408	0.163	1.205	0.492	0.196	0.308	
Body	802.15.4	WF7	WCNQ9	-0.17	2405	11	1	19.50	18.69	Bottom	5	0.029	0.014	1.205	0.035	0.017	0.022	
Body	802.15.4	WF7	WCNQ9	0.04	2405	11	1	19.50	18.69	Right	5	0.003	0.000	1.205	0.004	0.000	0.003	
Body	802.15.4	WF7	WCNQ9	-0.02	2405	11	1	19.50	18.69	Left	5	0.692	0.325	1.205	0.834	0.392	0.521	
Body	802.15.4	WF7	WCNQ9	-0.04	2440	18	1	19.50	18.60	Left	5	0.522	0.253	1.230	0.642	0.311	0.401	
Body	802.15.4	WF7	WCNQ9	-0.03	2475	25	1	19.50	18.40	Left	5	0.648	0.310	1.288	0.835	0.399	0.522	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population										Body 1.6 W/kg (mW/g) averaged over 1 gram								

Table 9-21 Antenna WF9

Exposure	Band / Mode	Ant.	Serial Number	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Body	802.15.4	WF9	JCRF0	-0.04	2475	25	1	19.25	18.62	Back	5	0.530	0.257	1.156	0.613	0.297	0.383	
Body	802.15.4	WF9	JCRF0	0.00	2475	25	1	19.25	18.62	Top	5	0.293	0.113	1.156	0.339	0.131	0.212	
Body	802.15.4	WF9	JCRF0	0.02	2475	25	1	19.25	18.62	Bottom	5	0.010	0.005	1.156	0.012	0.006	0.008	
Body	802.15.4	WF9	JCRF0	0.03	2475	25	1	19.25	18.62	Right	5	0.000	0.000	1.156	0.000	0.000	0.000	
Body	802.15.4	WF9	JCRF0	-0.11	2475	25	1	19.25	18.62	Left	5	0.018	0.008	1.156	0.021	0.009	0.013	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population										Body 1.6 W/kg (mW/g) averaged over 1 gram								

9.6 NB U-NII 1 Standalone SAR

Table 9-22 Antenna WF5B

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Body	NB U-NII 1	π-QPSK	WF5B	QQPGP	78.25	0.06	5204	Mid	8	14.00	13.61	Back	5	0.013	0.004	1.094	1.278	0.018	0.006	0.011	
Body	NB U-NII 1	π-QPSK	WF5B	QQPGP	78.25	0.02	5204	Mid	8	14.00	13.61	Top	5	0.000	0.000	1.094	1.278	0.000	0.000	0.000	
Body	NB U-NII 1	π-QPSK	WF5B	QQPGP	78.25	-0.01	5204	Mid	8	14.00	13.61	Bottom	5	0.006	0.001	1.094	1.278	0.008	0.001	0.005	
Body	NB U-NII 1	π-QPSK	WF5B	QQPGP	78.25	0.08	5204	Mid	8	14.00	13.61	Right	5	0.103	0.039	1.094	1.278	0.144	0.055	0.090	
Body	NB U-NII 1	π-QPSK	WF5B	QQPGP	78.25	0.01	5204	Mid	8	14.00	13.61	Left	5	0.000	0.000	1.094	1.278	0.000	0.000	0.000	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT												Body									
Spatial Peak												1.6 W/kg (mW/g)									
Uncontrolled Exposure/General Population												averaged over 1 gram									

Table 9-23 Antenna WF8

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Body	NB U-NII 1	π/4-QPSK	WF8	QQPGP	78.25	-0.19	5204	Mid	8	14.50	13.98	Back	5	0.161	0.051	1.127	1.278	0.232	0.073	0.145	
Body	NB U-NII 1	π/4-QPSK	WF8	QQPGP	78.25	0.09	5204	Mid	8	14.50	13.98	Top	5	0.073	0.025	1.127	1.278	0.105	0.036	0.066	
Body	NB U-NII 1	π/4-QPSK	WF8	QQPGP	78.25	0.17	5204	Mid	8	14.50	13.98	Bottom	5	0.000	0.000	1.127	1.278	0.000	0.000	0.000	
Body	NB U-NII 1	π/4-QPSK	WF8	QQPGP	78.25	-0.05	5204	Mid	8	14.50	13.98	Right	5	0.276	0.088	1.127	1.278	0.398	0.127	0.249	
Body	NB U-NII 1	π/4-QPSK	WF8	QQPGP	78.25	0.02	5204	Mid	8	14.50	13.98	Left	5	0.000	0.000	1.127	1.278	0.000	0.000	0.000	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT												Body									
Spatial Peak												1.6 W/kg (mW/g)									
Uncontrolled Exposure/General Population												averaged over 1 gram									

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Table 9-24 Antenna WF7

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Body	NB U-NII 1	π/4-QPSK	WF7	QQGP	78.25	-0.04	5245	High	8	14.00	12.86	Back	5	0.293	0.100	1.300	1.278	0.487	0.166	0.304	
Body	NB U-NII 1	π/4-QPSK	WF7	QQGP	78.25	0.09	5245	High	8	14.00	12.86	Top	5	0.075	0.022	1.300	1.278	0.125	0.037	0.078	
Body	NB U-NII 1	π/4-QPSK	WF7	QQGP	78.25	0.04	5245	High	8	14.00	12.86	Bottom	5	0.000	0.000	1.300	1.278	0.000	0.000	0.000	
Body	NB U-NII 1	π/4-QPSK	WF7	QQGP	78.25	0.06	5245	High	8	14.00	12.86	Right	5	0.000	0.000	1.300	1.278	0.000	0.000	0.000	
Body	NB U-NII 1	π/4-QPSK	WF7	QQGP	78.25	-0.08	5245	High	8	14.00	12.86	Left	5	0.070	0.019	1.300	1.278	0.116	0.032	0.073	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population														Body 1.6 W/kg (mW/g) averaged over 1 gram							

9.7 NB U-NII 3 Standalone SAR

Table 9-25 Antenna WF5B

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Body	NB U-NII 3	GFSK	WF5B	HQGD	76.76	-0.20	5844	High	1	19.50	19.37	Back	5	0.106	0.040	1.030	1.303	0.142	0.054	0.089	
Body	NB U-NII 3	GFSK	WF5B	HQGD	76.76	0.02	5844	High	1	19.50	19.37	Top	5	0.000	0.000	1.030	1.303	0.000	0.000	0.000	
Body	NB U-NII 3	GFSK	WF5B	HQGD	76.76	0.01	5844	High	1	19.50	19.37	Bottom	5	0.103	0.037	1.030	1.303	0.138	0.050	0.086	
Body	NB U-NII 3	GFSK	WF5B	HQGD	76.76	0.02	5844	High	1	19.50	19.37	Right	5	0.820	0.315	1.030	1.303	1.100	0.423	0.688	A6
Body	NB U-NII 3	GFSK	WF5B	HQGD	76.76	0.07	5844	High	1	19.50	19.37	Right	5	0.667	0.259	1.030	1.303	1.009	0.373	0.625	
Body	NB U-NII 3	GFSK	WF5B	HQGD	76.76	0.04	5733	Low	1	19.50	19.37	Right	5	0.650	0.248	1.030	1.303	0.872	0.333	0.545	
Body	NB U-NII 3	GFSK	WF5B	HQGD	76.76	0.03	5789	Mid	1	19.50	19.32	Right	5	0.641	0.238	1.042	1.303	0.870	0.323	0.544	
Body	NB U-NII 3	GFSK	WF5B	HQGD	76.76	0.03	5844	High	1	19.50	19.37	Left	5	0.025	0.009	1.030	1.303	0.034	0.012	0.021	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population														Body 1.6 W/kg (mW/g) averaged over 1 gram							

Note: Blue entry represents variability measurement

Table 9-26 Antenna WF8

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Body	NB U-NII 3	GFSK	WF8	QQGP	76.76	0.06	5789	Mid	1	17.50	16.87	Back	5	0.334	0.104	1.156	1.303	0.503	0.157	0.314	
Body	NB U-NII 3	GFSK	WF8	QQGP	76.76	-0.09	5789	Mid	1	17.50	16.87	Top	5	0.141	0.050	1.156	1.303	0.212	0.075	0.133	
Body	NB U-NII 3	GFSK	WF8	QQGP	76.76	0.09	5789	Mid	1	17.50	16.87	Bottom	5	0.017	0.006	1.156	1.303	0.026	0.009	0.016	
Body	NB U-NII 3	GFSK	WF8	QQGP	76.76	-0.01	5844	High	1	17.50	16.79	Right	5	0.705	0.220	1.178	1.303	1.082	0.338	0.676	
Body	NB U-NII 3	GFSK	WF8	QQGP	76.76	0.00	5733	Low	1	17.50	16.71	Right	5	0.662	0.215	1.109	1.303	1.034	0.336	0.646	
Body	NB U-NII 3	GFSK	WF8	QQGP	76.76	0.00	5789	Mid	1	17.50	16.87	Right	5	0.786	0.242	1.156	1.303	1.184	0.364	0.740	
Body	NB U-NII 3	GFSK	WF8	QQGP	76.76	0.06	5789	Mid	1	17.50	16.87	Left	5	0.000	0.000	1.156	1.303	0.000	0.000	0.000	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population														Body 1.6 W/kg (mW/g) averaged over 1 gram							

Table 9-27 Antenna WF7

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Body	NB U-NII 3	GFSK	WF7	273CD	76.76	-0.03	5844	High	1	18.00	16.78	Back	5	0.521	0.175	1.324	1.303	0.899	0.302	0.562	
Body	NB U-NII 3	GFSK	WF7	273CD	76.76	-0.09	5733	Low	1	18.00	16.93	Back	5	0.623	0.221	1.469	1.303	1.152	0.404	0.745	
Body	NB U-NII 3	GFSK	WF7	273CD	76.76	0.04	5789	Mid	1	18.00	16.21	Back	5	0.552	0.186	1.510	1.303	1.086	0.366	0.679	
Body	NB U-NII 3	GFSK	WF7	273CD	76.76	-0.15	5844	High	1	18.00	16.78	Top	5	0.198	0.074	1.324	1.303	0.345	0.128	0.214	
Body	NB U-NII 3	GFSK	WF7	273CD	76.76	0.01	5844	High	1	18.00	16.78	Bottom	5	0.014	0.004	1.324	1.303	0.024	0.007	0.015	
Body	NB U-NII 3	GFSK	WF7	273CD	76.76	0.04	5844	High	1	18.00	16.78	Right	5	0.000	0.000	1.324	1.303	0.000	0.000	0.000	
Body	NB U-NII 3	GFSK	WF7	273CD	76.76	0.07	5844	High	1	18.00	16.78	Left	5	0.078	0.026	1.324	1.303	0.128	0.045	0.080	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population														Body 1.6 W/kg (mW/g) averaged over 1 gram							

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9.8 NB U-NII 5 Standalone SAR and APD

Table 9-28 Antenna WF5B

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Body	NB U-NII 5	OQPSK	WF5B	273CD	80.00	0.01	6263	Mid	8	0.00	-0.13	Back	5	0.000	0.000	1.030	1.250	0.000	0.000	0.000	
Body	NB U-NII 5	OQPSK	WF5B	273CD	80.00	-0.02	6263	Mid	8	0.00	-0.13	Top	5	0.002	0.000	1.030	1.250	0.003	0.000	0.002	
Body	NB U-NII 5	OQPSK	WF5B	273CD	80.00	0.09	6263	Mid	8	0.00	-0.13	Bottom	5	0.000	0.000	1.030	1.250	0.000	0.000	0.000	
Body	NB U-NII 5	OQPSK	WF5B	273CD	80.00	0.06	6417	High	8	0.00	-0.87	Right	5	0.004	0.000	1.222	1.250	0.006	0.000	0.004	
Body	NB U-NII 5	OQPSK	WF5B	273CD	80.00	0.09	6109	Low	8	0.00	-0.26	Right	5	0.003	0.000	1.062	1.250	0.004	0.000	0.003	
Body	NB U-NII 5	OQPSK	WF5B	273CD	80.00	0.02	6186	Low-Mid	8	0.00	-0.18	Right	5	0.009	0.003	1.042	1.250	0.012	0.004	0.008	
Body	NB U-NII 5	OQPSK	WF5B	273CD	80.00	0.04	6263	Mid	8	0.00	-0.13	Right	5	0.003	0.000	1.030	1.250	0.004	0.000	0.003	
Body	NB U-NII 5	OQPSK	WF5B	273CD	80.00	0.02	6340	Mid-High	8	0.00	-0.35	Right	5	0.004	0.000	1.084	1.250	0.005	0.000	0.003	
Body	NB U-NII 5	OQPSK	WF5B	273CD	80.00	0.07	6263	Mid	8	0.00	-0.13	Left	5	0.000	0.000	1.030	1.250	0.000	0.000	0.000	
ANS/IEEE CS6.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population														Body 1.6 W/kg (mW/g) averaged over 1 gram							
Exposure	Band / Mode	Service/ Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured APD [W/m² (4cm²)]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported APD [W/m² (4cm²)]	APD Exposure Ratio	Plot #		
Body	NB U-NII 5	OQPSK	WF5B	273CD	80.00	0.01	6263	Mid	8	0.00	-0.13	Back	5	0.000	1.030	1.250	0.000	0.000			
Body	NB U-NII 5	OQPSK	WF5B	273CD	80.00	-0.02	6263	Mid	8	0.00	-0.13	Top	5	0.012	1.030	1.250	0.015	0.001			
Body	NB U-NII 5	OQPSK	WF5B	273CD	80.00	0.09	6263	Mid	8	0.00	-0.13	Bottom	5	0.003	1.030	1.250	0.004	0.000			
Body	NB U-NII 5	OQPSK	WF5B	273CD	80.00	0.06	6417	High	8	0.00	-0.87	Right	5	0.007	1.222	1.250	0.011	0.001			
Body	NB U-NII 5	OQPSK	WF5B	273CD	80.00	0.09	6109	Low	8	0.00	-0.26	Right	5	0.009	1.062	1.250	0.012	0.001			
Body	NB U-NII 5	OQPSK	WF5B	273CD	80.00	0.02	6186	Low-Mid	8	0.00	-0.18	Right	5	0.077	1.042	1.250	0.100	0.005			
Body	NB U-NII 5	OQPSK	WF5B	273CD	80.00	0.04	6263	Mid	8	0.00	-0.13	Right	5	0.023	1.030	1.250	0.030	0.002			
Body	NB U-NII 5	OQPSK	WF5B	273CD	80.00	0.02	6340	Mid-High	8	0.00	-0.35	Right	5	0.013	1.084	1.250	0.018	0.001			
Body	NB U-NII 5	OQPSK	WF5B	273CD	80.00	0.07	6263	Mid	8	0.00	-0.13	Left	5	0.000	1.030	1.250	0.000	0.000			

Table 9-29 Antenna WF8

Exposure	Band / Mode	Service/ Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Body	NB U-NII 5	OQPSK	WF8	273CD	80.00	0.06	6417	High	8	1.75	1.37	Back	5	0.037	0.010	1.091	1.250	0.050	0.014	0.031	
Body	NB U-NII 5	OQPSK	WF8	273CD	80.00	0.09	6109	Low	8	1.75	1.72	Back	5	0.027	0.006	1.007	1.250	0.034	0.008	0.021	
Body	NB U-NII 5	OQPSK	WF8	273CD	80.00	0.09	6186	Low-Mid	8	1.75	1.69	Back	5	0.039	0.011	1.014	1.250	0.049	0.014	0.031	
Body	NB U-NII 5	OQPSK	WF8	273CD	80.00	0.07	6263	Mid	8	1.75	1.52	Back	5	0.031	0.010	1.054	1.250	0.041	0.013	0.026	
Body	NB U-NII 5	OQPSK	WF8	273CD	80.00	0.08	6340	Mid-High	8	1.75	1.50	Back	5	0.039	0.010	1.059	1.250	0.052	0.013	0.033	
Body	NB U-NII 5	OQPSK	WF8	273CD	80.00	0.02	6109	Low	8	1.75	1.72	Top	5	0.004	0.000	1.007	1.250	0.005	0.000	0.003	
Body	NB U-NII 5	OQPSK	WF8	273CD	80.00	0.09	6109	Low	8	1.75	1.72	Bottom	5	0.000	0.000	1.007	1.250	0.000	0.000	0.000	
Body	NB U-NII 5	OQPSK	WF8	273CD	80.00	0.07	6109	Low	8	1.75	1.72	Right	5	0.031	0.005	1.007	1.250	0.033	0.006	0.014	
Body	NB U-NII 5	OQPSK	WF8	273CD	80.00	0.05	6109	Low	8	1.75	1.72	Left	5	0.000	0.000	1.007	1.250	0.000	0.000	0.000	
ANS/IEEE CS6.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population														Body 1.6 W/kg (mW/g) averaged over 1 gram							
Exposure	Band/ Mode	Service/ Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured APD [W/m² (4cm²)]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported APD [W/m² (4cm²)]	APD Exposure Ratio	Plot #		
Body	NB U-NII 5	OQPSK	WF8	273CD	80.00	0.06	6417	High	8	1.75	1.37	Back	5	0.226	1.091	1.250	0.308	0.015			
Body	NB U-NII 5	OQPSK	WF8	273CD	80.00	0.09	6109	Low	8	1.75	1.72	Back	5	0.142	1.007	1.250	0.179	0.009			
Body	NB U-NII 5	OQPSK	WF8	273CD	80.00	0.09	6186	Low-Mid	8	1.75	1.69	Back	5	0.261	1.014	1.250	0.331	0.017			
Body	NB U-NII 5	OQPSK	WF8	273CD	80.00	0.07	6263	Mid	8	1.75	1.52	Back	5	0.222	1.054	1.250	0.292	0.015			
Body	NB U-NII 5	OQPSK	WF8	273CD	80.00	0.08	6340	Mid-High	8	1.75	1.50	Back	5	0.244	1.059	1.250	0.323	0.016			
Body	NB U-NII 5	OQPSK	WF8	273CD	80.00	0.02	6109	Low	8	1.75	1.72	Top	5	0.018	1.007	1.250	0.023	0.001			
Body	NB U-NII 5	OQPSK	WF8	273CD	80.00	0.09	6109	Low	8	1.75	1.72	Bottom	5	0.000	1.007	1.250	0.000	0.000			
Body	NB U-NII 5	OQPSK	WF8	273CD	80.00	0.07	6109	Low	8	1.75	1.72	Right	5	0.124	1.007	1.250	0.156	0.008			
Body	NB U-NII 5	OQPSK	WF8	273CD	80.00	0.05	6109	Low	8	1.75	1.72	Left	5	0.000	1.007	1.250	0.000	0.000			

Table 9-30 Antenna WF7

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Body	NB U-NII 5	OQPSK	WF7	273CD	80.00	0.01	6417	High	8	0.50	0.03	Back	5	0.011	0.004	1.114	1.250	0.015	0.006	0.009	
Body	NB U-NII 5	OQPSK	WF7	273CD	80.00	0.09	6109	Low	8	0.50	0.46	Back	5	0.019	0.004	1.009	1.250	0.024	0.005	0.015	
Body	NB U-NII 5	OQPSK	WF7	273CD	80.00	0.01	6186	Low-Mid	8	0.50	0.49	Back	5	0.009	0.004	1.002	1.250	0.011	0.005	0.007	
Body	NB U-NII 5	OQPSK	WF7	273CD	80.00	0.01	6263	Mid	8	0.50	0.30	Back	5	0.009	0.003	1.047	1.250	0.012	0.004	0.008	
Body	NB U-NII 5	OQPSK	WF7	273CD	80.00	0.01	6340	Mid-High	8	0.50	0.10	Back	5	0.009	0.003	1.096	1.250	0.012	0.004	0.008	
Body	NB U-NII 5	OQPSK	WF7	273CD	80.00	0.05	6186	Low-Mid	8	0.50	0.49	Top	5	0.000	0.000	1.002	1.250	0.000	0.000	0.000	
Body	NB U-NII 5	OQPSK	WF7	273CD	80.00	0.01	6186	Low-Mid	8	0.50	0.49	Bottom	5	0.000	0.000	1.002	1.250	0.000	0.000	0.000	
Body	NB U-NII 5	OQPSK	WF7	273CD	80.00	0.08	6186	Low-Mid	8	0.50	0.49	Right	5	0.000	0.000	1.002	1.250	0.000	0.000	0.000	
Body	NB U-NII 5	OQPSK	WF7	273CD	80.00	0.06	6186	Low-Mid	8	0.50	0.49	Left	5	0.000	0.000	1.002	1.250	0.000	0.000	0.000	
ANS/IEEE CS6.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population														Body 1.6 W/kg (mW/g) averaged over 1 gram							
Exposure	Band/ Mode	Service/ Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured APD [W/m² (4cm²)]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported APD [W/m² (4cm²)]	APD Exposure Ratio	Plot #		
Body	NB U-NII 5	OQPSK	WF7	273CD	80.00	0.01	6417	High	8	0.50	0.03	Back	5	0.091	1.114	1.250	0.127	0.006			
Body	NB U-NII 5	OQPSK	WF7	273CD	80.00	0.09	6109	Low	8	0.50	0.46	Back	5	0.101	1.009	1.250	0.127	0.006			
Body	NB U-NII 5	OQPSK	WF7	273CD	80.00	0.01	6186	Low-Mid	8	0.50	0.49	Back	5	0.080	1.002	1.250	0.100	0.005			
Body	NB U-NII 5	OQPSK	WF7	273CD	80.00	0.01	6263	Mid	8	0.50	0.30	Back	5	0.076	1.047	1.250	0.099	0.005			
Body	NB U-NII 5	OQPSK	WF7	273CD	80.00	0.01	6340	Mid-High	8	0.50	0.10	Back	5	0.073	1.096	1.250	0.100	0.005			
Body	NB U-NII 5	OQPSK	WF7	273CD	80.00	0.05	6186	Low-Mid	8	0.50	0.49	Top	5	0.011	1.002	1.250	0.014	0.001			
Body	NB U-NII 5	OQPSK	WF7	273CD	80.00	0.01	6186	Low-Mid	8	0.50	0.49	Bottom	5	0.000	1.002	1.250	0.000	0.000			
Body	NB U-NII 5	OQPSK	WF7	273CD	80.00	0.08	6186	Low-Mid	8	0.50	0.49	Right	5	0.000	1.002	1.250	0.000	0.000			
Body	NB U-NII 5	OQPSK	WF7	273CD	80.00	0.06	6186	Low-Mid	8	0.50	0.49	Left	5	0.000	1.002	1.250	0.000	0.000			

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Technical Manager

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9.9 wPT Standalone SAR

Table 9-31 Antenna wPT

Exposure	Band / Mode	Serial Number	Power Drift [dB]	Frequency [MHz]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Body	wPT	HJPJY	0.04	13.60	Back	5	0.000	0.000	0.000	A7
Body	wPT	HJPJY	0.04	13.60	Top	5	0.000	0.000	0.000	
Body	wPT	HJPJY	0.01	13.60	Bottom	5	0.000	0.000	0.000	
Body	wPT	HJPJY	0.01	13.60	Right	5	0.000	0.000	0.000	
Body	wPT	HJPJY	0.01	13.60	Left	5	0.000	0.000	0.000	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population					Body 1.6 W/kg (mW/g) averaged over 1 gram					

9.10 SAR Test Notes

General Notes:

1. The test data reported are the worst-case SAR values according to test procedures specified in FCC KDB Publication 616217 D04v01r02, and FCC KDB Publication 447498 D04v01.
2. Batteries are fully charged at the beginning of the SAR measurements.
3. Liquid tissue depth was at least 15.0 cm for all frequencies.
4. The manufacturer has confirmed that the device(s) tested have the same physical, mechanical, and thermal characteristics and are within operational tolerances expected for production units.
5. SAR results were scaled to the maximum allowed power to demonstrate compliance per FCC KDB Publication 447498 D04v01.
6. Per FCC KDB 865664 D01v01r04, variability SAR tests were performed when the measured SAR results for a frequency band were greater than or equal to 0.8 W/kg. Repeated SAR measurements are highlighted in the tables above for clarity. Please see Section 11 for variability analysis.
7. FCC KDB Publication 616217 D04v01r02 Section 4.3, SAR tests are required for the back surface and edges of the tablet with the tablet touching the phantom. The SAR Exclusion Threshold in FCC KDB 447498 D04v01 was applied to determine SAR test exclusion for adjacent edge configurations.
8. This device utilizes power reduction for some wireless modes and technologies, as outlined in Section 1.2. The maximum output power allowed for each transmitter and exposure condition was evaluated for SAR compliance based on expected use conditions and simultaneous transmission scenarios.
9. The orange highlights throughout the report represent the highest scaled SAR per Equipment Class.
10. Per FCC guidance, SAR was performed using 6.5 GHz SAR probe calibration factors. Per October 2020 TCB Workshop notes, 5 channels were tested. Absorbed power density (APD) using a 4cm² averaging area is reported based on SAR measurements.

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WLAN Notes:

1. Justification for test configurations for WLAN per KDB Publication 248227 D01v02r02 for 2.4 GHz WIFI single transmission chain operations, the highest measured maximum output power channel for DSSS was selected for SAR measurement. SAR for OFDM modes (2.4 GHz 802.11g/n/ax) was not required due to the maximum allowed powers and the highest reported DSSS SAR. See Section 6.2.4 for more information.
2. Justification for test configurations for WLAN per KDB Publication 248227 D01v02r02 for 5 GHz WIFI single transmission chain operations, the initial test configuration was selected according to the transmission mode with the highest maximum allowed powers. Other transmission modes were not investigated since the highest reported SAR for initial test configuration adjusted by the ratio of maximum output powers is less than 1.2 W/kg for 1g evaluations. See Section 6.2.5 for more information.
3. Per KDB Publication 248227 D01v02r02, SAR for MIMO was evaluated by following the simultaneous SAR provisions from KDB Publication 447498 D04v01 by either evaluating the sum of the 1g SAR values of each antenna transmitting independently or making a SAR measurement with both antennas transmitting simultaneously. Please see Section 11 for complete analysis.
4. When the maximum reported 1g averaged SAR is ≤ 0.8 W/kg, SAR testing on additional channels was not required. Otherwise, SAR for the next highest output power channel was required until the reported SAR result was ≤ 1.20 W/kg for 1g evaluations or all test channels were measured.
5. 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. The reported SAR was scaled to the 100% transmission duty factor to determine compliance. Procedures used to measure the duty factor are identical to that in the associated EMC test reports.
6. The time-averaged mechanism for WLAN operations was disabled for the above SAR measurements. The SAR was scaled to the maximum time-averaged output power.

Bluetooth/NB UNII Notes

1. Bluetooth SAR was evaluated with a test mode with hopping disabled with DH5 operation. The reported SAR was scaled to 100% transmission duty factor to determine compliance as the most conservative transmission duty factor. See Section 7.6 and 7.11 for the time domain plot and calculation for the duty factor of the device.

802.15.4 Notes

1. Per manufacturer, SAR was evaluated at 100% transmission duty factor as a more conservative condition to determine compliance. See Section 7.8 for the time domain plot and calculation for the duty factor of the device.

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10 POWER DENSITY DATA SUMMARY

10.1 Power Density Data

MEASUREMENT RESULTS																							
Frequency (MHz)	Channel	Mode	Service/Modulation	Bandwidth (MHz)	Maximum Allowed Power (dBm)	Conducted Power (dBm)	Power Drift (dB)	Spacing (mm)	Antenna Config.	DUT Serial Number	Data Rate (Mbps)	Side	Duty Cycle (%)	Grid Step (A)	iPD (W/m²)	Scaling Factor for Measurement Uncertainty per IEC 62479	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Normal psPD (W/m²)	Scaled Normal psPD (W/m²)	Total psPD (W/m²)	Scaled Total psPD (W/m²)	Plot #
6665	143	802.11ax	OFDM	160	13.50	12.94	-0.04	2	WF5B	MY4R3	68.1	Right	97.92	0.041	1.490	1.554	1.138	1.021	3.630	6.55	3.920	7.08	A8
6665	143	802.11ax	OFDM	160	13.50	12.94	-0.20	9	WF5B	MY4R3	68.1	Right	97.92	0.041	1.160	1.554	1.138	1.021	1.380	2.49	1.520	2.74	
6665	143	802.11ax	OFDM	160	11.00	9.55	0.07	2	WF8	MY4R3	68.1	Back	97.74	0.041	0.936	1.554	1.396	1.023	2.450	5.44	3.180	7.06	
6665	143	802.11ax	OFDM	160	11.00	9.55	-0.02	9	WF8	MY4R3	68.1	Back	97.74	0.041	0.622	1.554	1.396	1.023	1.080	2.40	1.230	2.73	
6345	79	802.11ax	OFDM	160	14.75	13.12	0.05	2	WF7	MY4R3	68.1	Back	97.74	0.041	0.977	1.554	1.455	1.023	2.480	5.74	3.030	7.01	
6345	79	802.11ax	OFDM	160	14.75	13.12	0.03	9.45	WF7	MY4R3	68.1	Back	97.74	0.041	0.804	1.554	1.455	1.023	1.360	3.15	1.550	3.59	
6186	Low-Mid	NB U-NII 5	OQPSK	8	0.00	-0.18	0.07	2	WF5B	273CD	8	Right	80.00	0.041	0.136	1.554	1.042	1.303	0.158	0.33	0.161	0.34	
6186	Low-Mid	NB U-NII 5	OQPSK	8	0.00	-0.18	0.00	9.69	WF5B	273CD	8	Right	80.00	0.041	0.071	1.554	1.042	1.303	0.065	0.14	0.068	0.14	
6340	Mid-High	NB U-NII 5	OQPSK	8	1.75	1.50	0.08	2.00	WF8	273CD	8	Back	80.00	0.041	0.184	1.554	1.059	1.303	0.252	0.54	0.261	0.56	A9
6340	Mid-High	NB U-NII 5	OQPSK	8	1.75	1.50	0.03	9.45	WF8	273CD	8	Back	80.00	0.041	0.076	1.554	1.059	1.303	0.084	0.18	0.092	0.20	
6109	Low	NB U-NII 5	OQPSK	8	0.50	0.46	0.03	2.00	WF7	273CD	8	Back	80.00	0.041	0.164	1.554	1.009	1.303	0.202	0.41	0.226	0.46	
6109	Low	NB U-NII 5	OQPSK	8	0.50	0.46	0.01	9.82	WF7	273CD	8	Back	80.00	0.041	0.147	1.554	1.009	1.303	0.133	0.27	0.135	0.28	
47 CFR §1.1310 - SAFETY LIMIT Spatial Average Uncontrolled Exposure / General Population										Power Density 10 W/m² averaged over 4 cm²													

10.2 Power Density Notes

1. 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.
2. Batteries are fully charged at the beginning of the measurements. The DUT was connected to a wall charger for some measurements due to the test duration. It was confirmed that the charger plugged into this DUT did not impact the near-field PD test results.
3. Power density was calculated by repeated E-field measurements on two measurement planes separated by $\lambda/4$.
4. 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.
5. Per FCC guidance and equipment manufacturer guidance, 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.
6. Per equipment manufacturer guidance, power density was measured at $d=2\text{mm}$ and $d=\lambda/5\text{mm}$ using the same grid size and grid step size for some frequencies and surfaces. The integrated Power Density (iPD) was calculated based on these measurements. Since iPD ratio between the two distances is $\geq -1\text{dB}$, the grid step was sufficient for determining compliance at $d=2\text{mm}$.
7. PD results were scaled to the maximum allowed power to demonstrate compliance per FCC KDB Publication 447498 D04v01.
8. PTP-PR algorithm was used during psPD measurement and calculations.
9. Per KDB Publication 388624, the OVER6G checklist was simplified for the 6 to 8.5 GHz range requiring a single power density measurement in correspondence to the largest SAR value that was measured.

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11 SAR MEASUREMENT VARIABILITY

11.1 Measurement Variability

Per FCC KDB Publication 865664 D01v01r04, SAR measurement variability was assessed for each frequency band, which was determined by the SAR probe calibration point and tissue-equivalent medium used for the device measurements. When both head and body tissue-equivalent media were required for SAR measurements in a frequency band, the variability measurement procedures were applied to the tissue medium with the highest measured SAR, using the highest measured SAR configuration for that tissue-equivalent medium. These additional measurements were repeated after the completion of all measurements requiring the same head or body tissue-equivalent medium in a frequency band. The test device was returned to ambient conditions (normal room temperature) with the battery fully charged before it was re-mounted on the device holder for the repeated measurement(s) to minimize any unexpected variations in the repeated results.

SAR Measurement Variability was assessed using the following procedures for each frequency band:

- 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.
- 2) A second repeated measurement was performed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg (~ 10% from the 1g SAR limit).
- 3) A third repeated measurement was performed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .
- 4) Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg.
- 5) When 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds above.

Table 11-1
Body SAR Measurement Variability Results

BODY VARIABILITY RESULTS											
Band	FREQUENCY		Mode	Service/Modulation	Ant	Data Rate (Mbps)	Side	Spacing	Measured SAR (1g)	1st Repeated SAR (1g)	Ratio
	MHz	Ch.							(W/kg)	(W/kg)	
2450	2437	6	2.4 GHz WIFV IEEE 802.11b, 22 MHz Bandwidth	DSSS	Ant WF9	1.0	Back	5 mm	1.160	1.120	1.04
5600	5610	122	5 GHz WIFV IEEE 802.11ac, 80 MHz Bandwidth	OFDM	WF7	29.3	Back	5 mm	0.993	0.941	1.06
5750	5775	155	5 GHz WIFV IEEE 802.11ac, 80 MHz Bandwidth	OFDM	WF8	29.3	Right	5 mm	0.991	0.989	1.00
5850	5844	High	NB U-NII 3	GFSK	WF5B	1.0	Right	5 mm	0.820	0.745	1.10
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population									Body 1.6 W/kg (mW/g) averaged over 1 gram		

11.2 Measurement Uncertainty

The measured SAR was < 1.5 W/kg for 1g and < 3.75 W/kg for 10g for all frequency bands. Therefore, per KDB Publication 865664 D01v01r04, the extended measurement uncertainty analysis per IEEE 1528-2013 was not required.

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12 EQUIPMENT LIST

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
Agilent	E4404B	Spectrum Analyzer	N/A	N/A	N/A	MY45113242
Agilent	E4438C	ESG Vector Signal Generator	10/23/2024	Annual	10/23/2025	MY45093852
Agilent	E4438C	ESG Vector Signal Generator	11/15/2024	Annual	11/15/2025	MY45092078
Agilent	N5182A	MXG Vector Signal Generator	5/30/2025	Annual	5/30/2026	MY48180366
Agilent	8753ES	5-Parameter Vector Network Analyzer	1/6/2025	Annual	1/6/2026	MY40001472
Agilent	8753ES	5-Parameter Vector Network Analyzer	9/25/2024	Annual	9/25/2025	MY40003841
Agilent	E5515C	Wireless Communications Test Set	CBT	N/A	CBT	GB46310798
Agilent	E5515C	Wireless Communications Test Set	CBT	N/A	CBT	GB41450275
Agilent	N4010A	Wireless Connectivity Test Set	N/A	N/A	N/A	GB46170464
Amplifier Research	1551G6	Amplifier	CBT	N/A	CBT	433973
Amplifier Research	1551G6	Amplifier	CBT	N/A	CBT	433974
Amplifier Research	150A100C	Amplifier	CBT	N/A	CBT	350132
Anritsu	MN8110B	I/O Adaptor	CBT	N/A	CBT	6261747881
Anritsu	ML2496A	Power Meter	6/27/2025	Annual	6/27/2026	1840005
Anritsu	ML2495A	Power Meter	2/10/2025	Annual	2/10/2026	1039008
Anritsu	MA2411B	Pulse Power Sensor	9/5/2024	Annual	9/5/2025	1726262
Anritsu	MA2411B	Pulse Power Sensor	10/21/2024	Annual	10/21/2025	1027293
Insize	1108-150	Insize - Digital Caliper	2/25/2025	Annual	2/25/2026	711245294
Anritsu	MA24106A	USB Power Sensor	5/29/2025	Annual	5/29/2026	1344554
Anritsu	MA24106A	USB Power Sensor	10/29/2024	Annual	10/29/2025	1248508
Mini-Circuits	PWR-4GHS	9-KHz-4000MHz USB Power Sensor	6/20/2025	Annual	6/20/2026	12503270057
Control Company	4052	Long Stem Thermometer	2/27/2024	Biennial	2/27/2026	240174346
Control Company	4052	Long Stem Thermometer	2/27/2024	Biennial	2/27/2026	240171096
Control Company	4052	Long Stem Thermometer	2/27/2024	Biennial	2/27/2026	240171059
Control Company	4040	Therm./ Clock/ Humidity Monitor	4/15/2024	Biennial	4/15/2026	240310280
Control Company	4040	Therm./ Clock/ Humidity Monitor	10/15/2024	Biennial	10/15/2026	240763503
Control Company	4040	Therm./ Clock/ Humidity Monitor	4/15/2024	Biennial	4/15/2026	240310282
Keysight Technologies	N9020A	MXA Signal Analyzer	10/27/2024	Annual	10/27/2025	MY48010233
Agilent	N9020A	MXA Signal Analyzer	7/7/2025	Biennial	7/7/2027	MY56470202
MCL	BW-N6W5+	6dB Attenuator	CBT	N/A	CBT	1139
Mini-Circuits	VLF-6000+	Low Pass Filter DC to 6000 MHz	CBT	N/A	CBT	N/A
Mini-Circuits	VLF-6000+	Low Pass Filter DC to 6000 MHz	7/3/2025	Annual	7/3/2026	31634
Mini-Circuits	BW-N20W5+	DC to 18 GHz Precision Fixed 20 dB Attenuator	CBT	N/A	CBT	N/A
Mini-Circuits	NLP-1200+	Low Pass Filter DC to 1000 MHz	CBT	N/A	CBT	N/A
Mini-Circuits	NLP-2950+	Low Pass Filter DC to 2700 MHz	CBT	N/A	CBT	N/A
Mini-Circuits	BW-N20W5	Power Attenuator	CBT	N/A	CBT	1226
Mini-Circuits	ZUDC10-83-S+	Directional Coupler	CBT	N/A	CBT	2050
Narda	4772-3	Attenuator (3dB)	CBT	N/A	CBT	9406
Narda	BW-53W2	Attenuator (3dB)	CBT	N/A	CBT	120
Rosenberger	32W006-016	Torque Wrench	4/2/2024	Biennial	4/2/2026	N/A
Pasternack	NC-100	Torque Wrench	5/29/2025	Biennial	5/29/2027	N/A
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	CBT	N/A	CBT	120504
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	CBT	N/A	CBT	109366
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	CBT	N/A	CBT	155128
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	CBT	N/A	CBT	102060
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	CBT	N/A	CBT	167112
SPEAG	DAK-3.5	Dielectric Assessment Kit	11/5/2024	Annual	11/5/2025	1277
SPEAG	DAK-3.5	Portable Dielectric Assessment Kit	8/7/2024	Annual	8/7/2025	1041
SPEAG	MAIA	Modulation and Audio Interference Analyzer	N/A	N/A	N/A	1237
SPEAG	MAIA	Modulation and Audio Interference Analyzer	N/A	N/A	N/A	1331
SPEAG	MAIA	Modulation and Audio Interference Analyzer	N/A	N/A	N/A	1390
SPEAG	DAK-12	Dielectric Assessment Kit (4MHz - 3GHz)	3/10/2025	Annual	3/10/2026	1102
GW Instek	GPS-3030DD	DC Power Supply	N/A	N/A	N/A	E1883874
SPEAG	5G Verification Source 10GHz	10GHz System Verification Antenna	10/8/2024	Annual	10/8/2025	1006
SPEAG	CLA-13	Confined Loop Antenna	11/11/2024	Annual	11/11/2025	1004
SPEAG	D2450V2	2450 MHz SAR Dipole	11/15/2022	Triennial	11/15/2025	855
SPEAG	D5GHv2	5 GHz SAR Dipole	11/8/2024	Annual	11/8/2025	1066
SPEAG	D6.5GHv2	6.5 GHz SAR Dipole	10/10/2024	Annual	10/10/2025	1019
SPEAG	DAE4	Dasy Data Acquisition Electronics	1/8/2025	Annual	1/8/2026	1465
SPEAG	DAE4	Dasy Data Acquisition Electronics	10/10/2024	Annual	10/10/2025	1237
SPEAG	DAE4	Dasy Data Acquisition Electronics	9/3/2024	Annual	9/3/2025	1646
SPEAG	DAE4	Dasy Data Acquisition Electronics	4/9/2025	Annual	4/9/2026	501
SPEAG	DAE4	Dasy Data Acquisition Electronics	9/4/2024	Annual	9/4/2025	1684
SPEAG	DAE4	Dasy Data Acquisition Electronics	4/10/2025	Annual	4/10/2026	1402
SPEAG	EX3DV4	SAR Probe	10/15/2024	Annual	10/15/2025	3746
SPEAG	EX3DV4	SAR Probe	4/16/2025	Annual	4/16/2026	7532
SPEAG	EX3DV4	SAR Probe	9/9/2024	Annual	9/9/2025	3949
SPEAG	EX3DV4	SAR Probe	1/14/2025	Annual	1/14/2026	7499
SPEAG	EX3DV4	SAR Probe	9/12/2024	Annual	9/12/2025	7782
SPEAG	EImmWV3	mmWave Probe	10/9/2024	Annual	10/9/2025	9407

Note: CBT (Calibrated Before Testing). Prior to testing, the measurement paths containing a cable, amplifier, attenuator, coupler or filter were connected to a calibrated source (i.e. a signal generator) to determine the losses of the measurement path. The power meter offset was then adjusted to compensate for the measurement system losses. This level offset is stored within the power meter before measurements are made. This calibration verification procedure applies to the system verification and output power measurements. The calibrated reading is then taken directly from the power meter after compensation of the losses for all final power measurements. Each equipment item was used solely within its respective calibration period.

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13 MEASUREMENT UNCERTAINTIES

Applicable for SAR measurements < 6 GHz:

a	b	c	d	e= f(d,k)	f	g	h = c x f/e	i = c x g/e	k
Uncertainty Component	IEEE 1528 Sec.	Tol. (± %)	Prob. Dist.	Div.	c _i 1gm	c _i 10 gms	1gm u _i (± %)	10gms u _i (± %)	v _i
Measurement System									
Probe Calibration	E2.1	7	N	1	1	1	7.0	7.0	∞
Axial Isotropy	E2.2	0.25	N	1	0.7	0.7	0.2	0.2	∞
Hemishperical Isotropy	E2.2	1.3	N	1	0.7	0.7	0.9	0.9	∞
Boundary Effect	E2.3	2	R	1.732	1	1	1.2	1.2	∞
Linearity	E2.4	0.3	N	1	1	1	0.3	0.3	∞
System Detection Limits	E2.4	0.25	R	1.732	1	1	0.1	0.1	∞
Modulation Response	E2.5	4.8	R	1.732	1	1	2.8	2.8	∞
Readout Electronics	E2.6	0.3	N	1	1	1	0.3	0.3	∞
Response Time	E2.7	0.8	R	1.732	1	1	0.5	0.5	∞
Integration Time	E2.8	2.6	R	1.732	1	1	1.5	1.5	∞
RF Ambient Conditions - Noise	E6.1	3	R	1.732	1	1	1.7	1.7	∞
RF Ambient Conditions - Reflections	E6.1	3	R	1.732	1	1	1.7	1.7	∞
Probe Positioner Mechanical Tolerance	E6.2	0.8	R	1.732	1	1	0.5	0.5	∞
Probe Positioning w/ respect to Phantom	E6.3	6.7	R	1.732	1	1	3.9	3.9	∞
Extrapolation, Interpolation & Integration algorithms for Max. SAR Evaluation	E5	4	R	1.732	1	1	2.3	2.3	∞
Test Sample Related									
Test Sample Positioning	E4.2	3.12	N	1	1	1	3.1	3.1	35
Device Holder Uncertainty	E4.1	1.67	N	1	1	1	1.7	1.7	5
Output Power Variation - SAR drift measurement	E2.9	5	R	1.732	1	1	2.9	2.9	∞
SAR Scaling	E6.5	0	R	1.732	1	1	0.0	0.0	∞
Phantom & Tissue Parameters									
Phantom Uncertainty (Shape & Thickness tolerances)	E3.1	7.6	R	1.73	1.0	1.0	4.4	4.4	∞
Liquid Conductivity - measurement uncertainty	E3.3	4.3	N	1	0.78	0.71	3.3	3.0	76
Liquid Permittivity - measurement uncertainty	E3.3	4.2	N	1	0.23	0.26	1.0	1.1	75
Liquid Conductivity - Temperature Uncertainty	E3.4	3.4	R	1.732	0.78	0.71	1.5	1.4	∞
Liquid Permittivity - Temperature Uncertainty	E3.4	0.6	R	1.732	0.23	0.26	0.1	0.1	∞
Liquid Conductivity - deviation from target values	E3.2	5.0	R	1.73	0.64	0.43	1.8	1.2	∞
Liquid Permittivity - deviation from target values	E3.2	5.0	R	1.73	0.60	0.49	1.7	1.4	∞
Combined Standard Uncertainty (k=1)				RSS			12.2	12.0	191
Expanded Uncertainty (95% CONFIDENCE LEVEL)				k=2			24.4	24.0	

The above measurement uncertainties are according to IEEE Std. 1528-2013

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Applicable for SAR measurements > 6 GHz:

a	b	c	d	e= f(d,k)	f	g	h = c x f/e	i = c x g/e	k
Uncertainty Component	IEEE 1528 Sec.	Tol. (± %)	Prob. Dist.	Div.	c _i 1gm	c _i 10 gms	1gm u _i (± %)	10gms u _i (± %)	v _i
Measurement System									
Probe Calibration	E2.1	9.3	N	1	1	1	9.3	9.3	∞
Axial Isotropy	E2.2	0.25	N	1	0.7	0.7	0.2	0.2	∞
Hemishperical Isotropy	E2.2	1.3	N	1	0.7	0.7	0.9	0.9	∞
Boundary Effect	E2.3	2	R	1.732	1	1	1.2	1.2	∞
Linearity	E2.4	0.3	N	1	1	1	0.3	0.3	∞
System Detection Limits	E2.4	0.25	R	1.732	1	1	0.1	0.1	∞
Modulation Response	E2.5	4.8	R	1.732	1	1	2.8	2.8	∞
Readout Electronics	E2.6	0.3	N	1	1	1	0.3	0.3	∞
Response Time	E2.7	0.8	R	1.732	1	1	0.5	0.5	∞
Integration Time	E2.8	2.6	R	1.732	1	1	1.5	1.5	∞
RF Ambient Conditions - Noise	E6.1	3	R	1.732	1	1	1.7	1.7	∞
RF Ambient Conditions - Reflections	E6.1	3	R	1.732	1	1	1.7	1.7	∞
Probe Positioner Mechanical Tolerance	E6.2	0.8	R	1.732	1	1	0.5	0.5	∞
Probe Positioning w/ respect to Phantom	E6.3	6.7	R	1.732	1	1	3.9	3.9	∞
Extrapolation, Interpolation & Integration algorithms for Max. SAR Evaluation	E5	4	R	1.732	1	1	2.3	2.3	∞
Test Sample Related									
Test Sample Positioning	E4.2	3.12	N	1	1	1	3.1	3.1	35
Device Holder Uncertainty	E4.1	1.67	N	1	1	1	1.7	1.7	5
Output Power Variation - SAR drift measurement	E2.9	5	R	1.732	1	1	2.9	2.9	∞
SAR Scaling	E6.5	0	R	1.732	1	1	0.0	0.0	∞
Phantom & Tissue Parameters									
Phantom Uncertainty (Shape & Thickness tolerances)	E3.1	7.6	R	1.73	1.0	1.0	4.4	4.4	∞
Liquid Conductivity - measurement uncertainty	E3.3	4.3	N	1	0.78	0.71	3.3	3.0	76
Liquid Permittivity - measurement uncertainty	E3.3	4.2	N	1	0.23	0.26	1.0	1.1	75
Liquid Conductivity - Temperature Uncertainty	E3.4	3.4	R	1.732	0.78	0.71	1.5	1.4	∞
Liquid Permittivity - Temperature Uncertainty	E3.4	0.6	R	1.732	0.23	0.26	0.1	0.1	∞
Liquid Conductivity - deviation from target values	E3.2	5.0	R	1.73	0.64	0.43	1.8	1.2	∞
Liquid Permittivity - deviation from target values	E3.2	5.0	R	1.73	0.60	0.49	1.7	1.4	∞
Combined Standard Uncertainty (k=1)							RSS	13.8	13.6
Expanded Uncertainty (95% CONFIDENCE LEVEL)							k=2	27.6	27.1

The above measurement uncertainties are according to IEEE Std. 1528-2013

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Applicable for Power Density measurements:

a	b	c	d	e	f = c x f/e	g
Uncertainty Component	Unc. (± dB)	Prob. Dist.	Div.	c _i	u _i (± dB)	v _i
Measurement System						
Calibration	0.49	N	1	1	0.49	∞
Probe Correction	0.00	R	1.73	1	0.00	∞
Frequency Response	0.20	R	1.73	1	0.12	∞
Sensor Cross Coupling	0.00	R	1.73	1	0.00	∞
Isotropy	0.50	R	1.73	1	0.29	∞
Linearity	0.20	R	1.73	1	0.12	∞
Probe Scattering	0.00	R	1.73	1	0.00	∞
Probe Positioning offset	0.30	R	1.73	1	0.17	∞
Probe Positioning Repeatability	0.04	R	1.73	1	0.02	∞
Sensor Mechanical Offset	0.00	R	1.73	1	0.00	∞
Probe Spatial Resolution	0.00	R	1.73	1	0.00	∞
Field Impedance Dependence	0.00	R	1.73	1	0.00	∞
Amplitude and Phase Drift	0.00	R	1.73	1	0.00	∞
Amplitude and Phase Noise	0.04	R	1.73	1	0.02	∞
Measurement Area Truncation	0.00	R	1.73	1	0.00	∞
Data Acquisition	0.03	N	1	1	0.03	∞
Sampling	0.00	R	1.73	1	0.00	∞
Field Reconstruction	2.00	R	1.73	1	1.15	∞
Forward Transformation	0.00	R	1.73	1	0.00	∞
Power Density Scaling	0.00	R	1.73	1	0.00	∞
Spatial Averaging	0.10	R	1.73	1	0.06	∞
System Detection Limit	0.04	R	1.73	1	0.02	∞
Test Sample Related						
Probe Coupling with DUT	0.00	R	1.73	1	0.00	∞
Modulation Response	0.40	R	1.73	1	0.23	∞
Integration Time	0.00	R	1.73	1	0.00	∞
Response Time	0.00	R	1.73	1	0.00	∞
Device Holder Influence	0.10	R	1.73	1	0.06	∞
DUT alignment	0.00	R	1.73	1	0.00	∞
RF Ambient Conditions	0.04	R	1.73	1	0.02	∞
Ambient Reflections	0.04	R	1.73	1	0.02	∞
Immunity/Secondary Reception	0.00	R	1.73	1	0.00	∞
Drift of DUT	0.21	R	1.73	1	0.12	∞
Combined Standard Uncertainty (k=1)					RSS	1.34
Expanded Uncertainty (95% CONFIDENCE LEVEL)					k=2	2.68

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14 CONCLUSION

14.1 Measurement Conclusion

The SAR evaluation indicates that the EUT complies with the RF radiation exposure limits of the FCC and Innovation, Science, and Economic Development Canada, with respect to all parameters subject to this test. These measurements were taken to simulate the RF effects of RF exposure under worst-case conditions. Precise laboratory measures were taken to assure repeatability of the tests. The results and statements relate only to the item(s) tested.

Please note that the absorption and distribution of electromagnetic energy in the body are very complex phenomena that depend on the mass, shape, and size of the body, the orientation of the body with respect to the field vectors, and the electrical properties of both the body and the environment. Other variables that may play a substantial role in possible biological effects are those that characterize the environment (e.g., ambient temperature, air velocity, relative humidity, and body insulation) and those that characterize the individual (e.g., age, gender, activity level, debilitation, or disease). Because various factors may interact with one another to vary the specific biological outcome of an exposure to electromagnetic fields, any protection guide should consider maximal amplification of biological effects as a result of field-body interactions, environmental conditions, and physiological variables. [3]

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