



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:

11/09/2024 – 12/20/2024

Test Report Issue Date:

01/24/2025

Test Site/Location:

Element, Morgan Hill, CA, USA

Document Serial No.:

1C2410210074-01.BCG (R1)

FCC ID:

BCGA3268

APPLICANT:

APPLE, INC.

DUT Type:

Tablet Device

Application Type:

Certification

FCC Rule Part(s):

CFR §2.1093

Models:

A3268

Equipment Class	Band & Mode	Tx Frequency	SAR 1g Body (W/kg)
DTS	2.4 GHz WiFi	2412 - 2472 MHz	1.16
NI	5 GHz WiFi	U-NII-1: 5180 - 5240 MHz U-NII-2A: 5260 - 5320 MHz U-NII-2C: 5500 - 5720 MHz U-NII-3: 5745 - 5825 MHz	1.17
6CD/ENL	6 GHz WiFi	U-NII-5: 5935 - 6415 MHz U-NII-6: 6435 - 6515 MHz U-NII-7: 6535 - 6875 MHz U-NII-8: 6895 - 7115 MHz	1.18
DSS/DTS	2.4 GHz Bluetooth	2402 - 2480 MHz	0.95
DTS	802.15.4	2405 - 2475 MHz	0.84
NI	NI L-NII-1	5162 - 5245 MHz	0.27
NI	NI L-NII-3	5733 - 5844 MHz	0.68
DOX	WiFi	13.56 MHz	<0.1
Simultaneous SAR per KDB 690763 D01v0103:			1.44
Equipment Class	Band & Mode	Tx Frequency	APD (W/m ²)
6CD	6 GHz WiFi	U-NII-5: 5935 - 6415 MHz U-NII-6: 6435 - 6515 MHz U-NII-7: 6535 - 6875 MHz U-NII-8: 6895 - 7115 MHz	7.59
Equipment Class	Band & Mode	Tx Frequency	Reported PD (W/m ²)
6CD	6 GHz WiFi	U-NII-5: 5935 - 6415 MHz U-NII-6: 6435 - 6515 MHz U-NII-7: 6535 - 6875 MHz U-NII-8: 6895 - 7115 MHz	7.09

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 WLAN	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
WPT	N/A	13.56 MHz

1.2 Power Reduction for SAR

This device additionally utilizes a power reduction mechanism for Bluetooth/802.15.4/NB UNII and WLAN operations. When Bluetooth/802.15.4/NB UNII is operating simultaneously with certain combinations of WLAN antennas, the output power is permanently reduced. SAR evaluations were additionally performed at the maximum allowed output power for these scenarios to evaluate simultaneous transmission compliance.

Additionally, this device uses an independent mechanism that limits WIFI powers to a time-averaged output power. 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 WLAN Time-Averaged SAR Verification Appendix.

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

Mode	Channel	IEEE 802.11 (Maximum in dBm) - Antenna WP79											
		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)	MIMO g/n (Maximum)	MIMO g/n (Nominal)	MIMO ax SU (Maximum)	MIMO ax SU (Nominal)
2.4 GHz WPI 20 MHz Bandwidth	1	20.75	19.25	15.50	14.00	15.50	14.00	15.50	14.00	15.00	13.50	14.25	12.75
	2	20.75	19.25	15.50	14.00	15.50	14.00	18.75	17.25	19.00	17.50	17.75	16.25
	3	20.75	19.25	20.75	19.25	19.75	18.25	20.75	19.25	19.50	18.00	19.50	18.00
	4	20.75	19.25	20.75	19.25	20.75	19.25	19.25	17.75	19.00	17.50	19.00	17.50
	5	20.75	19.25	20.75	19.25	20.75	19.25	20.75	19.25	20.75	19.25	20.75	19.25
	6	20.75	19.25	20.75	19.25	20.75	19.25	20.75	19.25	20.75	19.25	20.75	19.25
	7	20.75	19.25	20.75	19.25	20.75	19.25	20.75	19.25	20.75	19.25	20.75	19.25
	8	20.75	19.25	20.75	19.25	20.75	19.25	20.75	19.25	20.75	19.25	20.00	18.50
	9	20.75	19.25	20.75	19.25	20.75	19.25	20.00	19.00	19.25	18.25	20.00	18.50
	10	20.75	19.25	20.50	19.00	20.50	19.00	19.75	18.25	20.00	18.50	19.50	17.50
	11	20.75	19.25	17.75	16.25	17.75	16.25	18.25	15.75	17.50	16.00	18.75	15.25
	12	20.00	18.50	15.50	14.00	15.50	14.00	15.25	13.75	15.50	14.00	14.75	13.25
	13	18.25	16.75	10.50	9.00	10.50	9.00	NS	NS	10.00	8.50	NS	NS

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

Mode	Channel	IEEE 802.11 (Maximum in dBm) - Antenna WP79											
		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)	MIMO g/n (Maximum)	MIMO g/n (Nominal)	MIMO ax SU (Maximum)	MIMO ax SU (Nominal)
2.4 GHz WPI 20 MHz Bandwidth	1	20.75	18.75	15.50	14.00	15.50	14.00	15.50	14.00	15.00	13.50	14.25	12.75
	2	20.75	18.75	19.50	18.00	19.50	18.00	18.75	17.25	19.00	17.50	17.75	16.25
	3	20.75	18.75	20.25	18.75	20.25	18.75	20.00	18.50	20.00	18.50	19.50	18.00
	4	20.75	18.75	20.25	18.75	20.25	18.75	20.25	18.75	20.25	18.75	19.50	18.00
	5	20.75	18.75	20.25	18.75	20.25	18.75	20.25	18.75	20.25	18.75	19.75	18.25
	6	20.75	18.75	20.25	18.75	20.25	18.75	20.25	18.75	20.25	18.75	20.25	18.75
	7	20.75	18.75	20.25	18.75	20.25	18.75	20.25	18.75	20.25	18.75	20.25	18.75
	8	20.75	18.75	20.25	18.75	20.25	18.75	20.25	18.75	20.25	18.75	20.00	18.50
	9	20.75	18.75	20.25	18.75	20.25	18.75	20.25	18.75	20.25	18.75	20.00	18.50
	10	20.25	18.75	20.25	18.75	20.25	18.75	19.75	18.25	20.00	18.50	19.00	17.50
	11	20.25	18.75	17.75	16.25	17.75	16.25	17.25	15.75	17.50	16.00	18.75	15.25
	12	20.00	18.50	15.50	14.00	15.50	14.00	15.25	13.75	15.50	14.00	14.75	13.25
	13	18.25	16.75	10.50	9.00	10.50	9.00	NS	NS	10.00	8.50	NS	NS

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

Mode	Channel	IEEE 802.11 (Maximum in dBm) - Antenna WP79															
		SISO a (Maximum)	SISO a (Nominal)	SISO a/n (Maximum)	SISO a/n (Nominal)	SISO ax SU (Maximum)	SISO ax SU (Nominal)	MIMO CDD a/n/a (Maximum)	MIMO CDD a/n/a (Nominal)	MIMO CDD ax SU (Maximum)	MIMO CDD ax SU (Nominal)	MIMO SDM a/n/a (Maximum)	MIMO SDM a/n/a (Nominal)	MIMO SDM ax SU (Maximum)	MIMO SDM ax SU (Nominal)	MIMO SDM ax SU (Maximum)	MIMO SDM ax SU (Nominal)
5 GHz WPI 20 MHz Bandwidth	36	18.75	17.25	18.75	17.25	18.00	16.50	17.00	15.50	17.00	15.50	17.00	15.50	17.00	15.50	17.00	15.50
	40	19.50	18.00	19.50	18.00	19.00	17.50	19.00	17.50	19.00	17.50	19.00	17.50	19.00	17.50	19.00	17.50
	44	19.50	18.00	19.50	18.00	19.00	17.50	19.00	17.50	19.00	17.50	19.00	17.50	19.00	17.50	19.00	17.50
	48	19.50	18.00	19.50	18.00	19.00	17.50	19.00	17.50	19.00	17.50	19.00	17.50	19.00	17.50	19.00	17.50
	52	19.50	18.00	19.50	18.00	19.00	17.50	19.00	17.50	19.00	17.50	19.00	17.50	19.00	17.50	19.00	17.50
	56	19.50	18.00	19.50	18.00	19.00	17.50	19.00	17.50	19.00	17.50	19.00	17.50	19.00	17.50	19.00	17.50
	60	19.50	18.00	19.50	18.00	19.00	17.50	19.00	17.50	19.00	17.50	19.00	17.50	19.00	17.50	19.00	17.50
	64	19.50	17.50	19.50	18.00	19.00	17.50	19.00	17.50	19.00	17.50	19.00	17.50	19.00	17.50	19.00	17.50
	68	19.50	17.50	19.50	18.00	19.00	17.50	19.00	17.50	19.00	17.50	19.00	17.50	19.00	17.50	19.00	17.50
	72	19.50	17.50	19.50	18.00	19.00	17.50	19.00	17.50	19.00	17.50	19.00	17.50	19.00	17.50	19.00	17.50
	76	19.50	18.00	19.50	18.00	19.00	17.50	19.00	17.50	19.00	17.50	19.00	17.50	19.00	17.50	19.00	17.50
	80	19.50	18.00	19.50	18.00	19.00	17.50	19.00	17.50	19.00	17.50	19.00	17.50	19.00	17.50	19.00	17.50
	84	19.50	18.00	19.50	18.00	19.00	17.50	19.00	17.50	19.00	17.50	19.00	17.50	19.00	17.50	19.00	17.50
	88	19.50	18.00	19.50	18.00	19.00	17.50	19.00	17.50	19.00	17.50	19.00	17.50	19.00	17.50	19.00	17.50
	92	19.50	18.00	19.50	18.00	19.00	17.50	19.00	17.50	19.00	17.50	19.00	17.50	19.00	17.50	19.00	17.50
	96	19.50	18.00	19.50	18.00	19.00	17.50	19.00	17.50	19.00	17.50	19.00	17.50	19.00	17.50	19.00	17.50
	100	19.50	18.00	19.50	18.00	19.00	17.50	19.00	17.50	19.00	17.50	19.00	17.50	19.00	17.50	19.00	17.50
	104	19.50	18.00	19.50	18.00	19.00	17.50	19.00	17.50	19.00	17.50	19.00	17.50	19.00	17.50	19.00	17.50
	108	19.50	18.00	19.50	18.00	19.00	17.50	19.00	17.50	19.00	17.50	19.00	17.50	19.00	17.50	19.00	17.50
5 GHz WPI 40 MHz Bandwidth	112	19.50	18.00	19.50	18.00	19.00	17.50	19.00	17.50	19.00	17.50	19.00	17.50	19.00	17.50	19.00	17.50
	116	19.50	18.00	19.50	18.00	19.00	17.50	19.00	17.50	19.00	17.50	19.00	17.50	19.00	17.50	19.00	17.50
	120	19.50	18.00	19.50	18.00	19.00	17.50	19.00	17.50	19.00	17.50	19.00	17.50	19.00	17.50	19.00	17.50
	124	19.50	18.00	19.50	18.00	19.00	17.50	19.00	17.50	19.00	17.50	19.00	17.50	19.00	17.50	19.00	17.50
	128	19.50	18.00	19.50	18.00	19.00	17.50	19.00	17.50	19.00	17.50	19.00	17.50	19.00	17.50	19.00	17.50
	132	19.50	18.00	19.50	18.00	19.00	17.50	19.00	17.50	19.00	17.50	19.00	17.50	19.00	17.50	19.00	17.50
	136	19.50	18.00	19.50	18.00	19.00	17.50	19.00	17.50	19.00	17.50	19.00	17.50	19.00	17.50	19.00	17.50
	140	19.50	18.00	19.50	18.00	19.00	17.50	19.00	17.50	19.00	17.50	19.00	17.50	19.00	17.50	19.00	17.50
	144	19.50	18.00	19.50	18.00	19.00	17.50	19.00	17.50	19.00	17.50	19.00	17.50	19.00	17.50	19.00	17.50
	148	19.50	18.00	19.50	18.00	19.00	17.50	19.00	17.50	19.00	17.50	19.00	17.50	19.00	17.50	19.00	17.50
	152	19.50	18.00	19.50	18.00	19.00	17.50	19.00	17.50	19.00	17.50	19.00	17.50	19.00	17.50	19.00	17.50
	156	19.50	18.00	19.50	18.00	19.00	17.50	19.00	17.50	19.00	17.50	19.00	17.50	19.00	17.50	19.00	17.50
5 GHz WPI 80 MHz Bandwidth	160	19.50	18.00	19.50	18.00	19.00	17.50	19.00	17.50	19.00	17.50	19.00	17.50	19.00	17.50	19.00	17.50
	164	19.50	18.00	19.50	18.00	19.00	17.50	19.00	17.50	19.00	17.50	19.00	17.50	19.00	17.50	19.00	17.50
	168	19.50	18.00	19.50	18.00	19.00	17.50	19.00	17.50	19.00	17.50	19.00	17.50	19.00	17.50	19.00	17.50
	172	19.50	18.00	19.50	18.00	19.00	17.50	19.00	17.50	19.00	17.50	19.00	17.50	19.00	17.50	19.00	17.50
5 GHz WPI 160 MHz Bandwidth	176	19.50	18.00	19.50	18.00	19.00	17.50	19.00	17.50	19.00	17.50	19.00	17.50	19.00	17.50	19.00	17.50
	180	19.50	18.00	19.50	18.00	19.00	17.50	19.00	17.50	19.00	17.50	19.00	17.50	19.00	17.50	19.00	17.50
	184	19.50	18.00	19.50	18.00	19.00	17.50	19.00	17.50	19.00	17.50	19.00	17.50	19.00	17.50	19.00	17.50
	188	19.50	18.00	19.50	18.00	19.00	17.50	19.00	17.50	19.00	17.50	19.00	17.50	19.00	17.50	19.00	17.50

Note: In MIMO operations, each antenna transmits at maximum allowed powers as indicated above. 802.11a supports up to 20MHz, 802.11n supports up to 40MHz, 802.11ac/ax support up to 160MHz.

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Note: In MIMO operations, each antenna transmits at maximum allowed powers as indicated above. 802.11a supports up to 20MHz, 802.11n supports up to 40MHz, 802.11ac/ax support up to 160MHz.

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Mode	Channel	IEEE 802.11 (Maximum in dBm) - Antenna WF7b							
		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	6.25	4.75	6.75	5.25	1.00	-0.50	4.00	2.50
	5	6.25	4.75	6.75	5.25	1.00	-0.50	4.00	2.50
	9-29	6.25	4.75	6.75	5.25	1.00	-0.50	4.00	2.50
	33-61	8.50	7.00	9.00	7.50	3.00	1.50	6.00	4.50
	65-85	7.00	5.50	7.50	6.00	2.50	1.00	5.50	4.00
	89	7.00	5.50	7.50	6.00	2.50	1.00	5.50	4.00
	93	7.00	5.50	7.50	6.00	2.50	1.00	5.50	4.00
	97-113	6.25	4.75	6.75	5.25	1.50	0.00	4.50	3.00
	117-181	5.75	4.25	6.25	4.75	1.00	-0.50	4.00	2.50
	185	5.75	4.25	6.25	4.75	1.00	-0.50	4.00	2.50
	189-225	6.75	5.25	7.25	5.75	1.75	0.25	4.75	3.25
	229	6.75	5.25	7.25	5.75	1.75	0.25	4.75	3.25
	233	6.75	5.25	7.25	5.75	1.75	0.25	4.75	3.25
	3			9.75	8.25	4.00	2.50	7.00	5.50
6 GHz WiFi (40MHz BW) LP	11			9.75	8.25	4.00	2.50	7.00	5.50
	19-27			9.75	8.25	4.00	2.50	7.00	5.50
	35-59			12.00	10.50	6.00	4.50	9.00	7.50
	67-75			10.50	9.00	5.50	4.00	8.50	7.00
	83			10.50	9.00	5.50	4.00	8.50	7.00
	91			10.50	9.00	5.50	4.00	8.50	7.00
	99-107			9.75	8.25	4.50	3.00	7.50	6.00
	115			9.25	7.75	4.00	2.50	7.00	5.50
	123-179			9.25	7.75	4.00	2.50	7.00	5.50
	187			9.25	7.75	4.00	2.50	7.00	5.50
	195-219			10.25	8.75	4.75	3.25	7.75	6.25
	227			10.25	8.75	4.75	3.25	7.75	6.25
	7			12.25	10.75	6.50	5.00	9.50	8.00
	23			12.25	10.75	6.50	5.00	9.50	8.00
6 GHz WiFi (80MHz BW) LP	39-55			14.50	13.00	8.50	7.00	11.50	10.00
	71			13.00	11.50	8.00	6.50	11.00	9.50
	87			13.00	11.50	8.00	6.50	11.00	9.50
	103			12.25	10.75	7.00	5.50	10.00	8.50
	119			11.75	10.25	6.50	5.00	9.50	8.00
	135-167			11.75	10.25	6.50	5.00	9.50	8.00
	183			11.75	10.25	6.50	5.00	9.50	8.00
	199			12.75	11.25	7.25	5.75	10.25	8.75
	215			12.75	11.25	7.25	5.75	10.25	8.75
	15			14.75	13.25	9.00	7.50	12.00	10.50
	47			16.25	14.75	11.00	9.50	14.00	12.50
	79			15.50	14.00	10.50	9.00	13.50	12.00
6 GHz WiFi (160MHz BW) LP	111			14.25	12.75	9.00	7.50	12.00	10.50
	143			14.25	12.75	9.00	7.50	12.00	10.50
	175			14.25	12.75	9.00	7.50	12.00	10.50
	207			15.25	13.75	9.75	8.25	12.75	11.25

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

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Mode	IEEE 802.11 (Maximum in dBm) - Antenna WF7b								
	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	4.50	3.00	5.00	3.50	-1.00	-2.50	2.00	0.50
	65-85	3.00	1.50	3.50	2.00	-1.50	-3.00	1.50	0.00
	89	3.00	1.50	3.50	2.00	-1.50	-3.00	1.50	0.00
	93	3.00	1.50	3.50	2.00	-1.50	-3.00	1.50	0.00
	97-113	NS	NS	NS	NS	NS	NS	NS	NS
	117-181	1.75	0.25	2.25	0.75	NS	NS	0.00	-1.50
	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) VLP	3	NS	NS	NS	NS	NS	NS	NS	NS
	11	NS	NS	NS	NS	NS	NS	NS	NS
	19-27	NS	NS	NS	NS	NS	NS	NS	NS
	35-59	NS	NS	8.00	6.50	2.00	0.50	5.00	3.50
	67-75	NS	NS	6.50	5.00	1.50	0.00	4.50	3.00
	83	NS	NS	6.50	5.00	1.50	0.00	4.50	3.00
	91	NS	NS	6.50	5.00	1.50	0.00	4.50	3.00
	99-107	NS	NS	NS	NS	NS	NS	NS	NS
	115	NS	NS	NS	NS	NS	NS	NS	NS
	123-179	NS	NS	5.25	3.75	0.00	-1.50	3.00	1.50
	187	NS	NS	NS	NS	NS	NS	NS	NS
	195-219	NS	NS	NS	NS	NS	NS	NS	NS
	227	NS	NS	NS	NS	NS	NS	NS	NS
	7	NS	NS	NS	NS	NS	NS	NS	NS
6 GHz WiFi (80MHz BW) VLP	23	NS	NS	NS	NS	NS	NS	NS	NS
	39-55	NS	NS	10.50	9.00	4.50	3.00	7.50	6.00
	71	NS	NS	9.00	7.50	4.00	2.50	7.00	5.50
	87	NS	NS	9.00	7.50	4.00	2.50	7.00	5.50
	103	NS	NS	NS	NS	NS	NS	NS	NS
	119	NS	NS	NS	NS	NS	NS	NS	NS
	135-167	NS	NS	7.75	6.25	2.50	1.00	5.50	4.00
	183	NS	NS	NS	NS	NS	NS	NS	NS
	199	NS	NS	NS	NS	NS	NS	NS	NS
	215	NS	NS	NS	NS	NS	NS	NS	NS
6 GHz WiFi (160MHz BW) VLP	15	NS	NS	NS	NS	NS	NS	NS	NS
	47	NS	NS	13.00	11.50	7.00	5.50	10.00	8.50
	79	NS	NS	11.50	10.00	6.50	5.00	9.50	8.00
	111	NS	NS	NS	NS	NS	NS	NS	NS
	143	NS	NS	10.25	8.75	5.00	3.50	8.00	6.50
	175	NS	NS	NS	NS	NS	NS	NS	NS
	207	NS	NS	NS	NS	NS	NS	NS	NS

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

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Mode	Channel	IEEE 802.11 (Maximum in dBm) - Antenna WF7b							
		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	16.25	14.75	16.25	14.75	16.25	14.75	16.25	14.75
	5	16.25	14.75	16.25	14.75	16.25	14.75	16.25	14.75
	9-29	16.25	14.75	16.25	14.75	16.25	14.75	16.25	14.75
	33-61	16.25	14.75	16.25	14.75	16.25	14.75	16.25	14.75
	65-85	15.50	14.00	15.50	14.00	15.50	14.00	15.50	14.00
	89	15.50	14.00	15.50	14.00	15.50	14.00	15.50	14.00
	93	15.50	14.00	15.50	14.00	15.50	14.00	15.50	14.00
	97-113	NS	NS	NS	NS	NS	NS	NS	NS
	117-181	16.00	14.50	16.00	14.50	16.00	14.50	16.00	14.50
	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			16.25	14.75	16.25	14.75	16.25	14.75
	11			16.25	14.75	16.25	14.75	16.25	14.75
	19-27			16.25	14.75	16.25	14.75	16.25	14.75
	35-59			16.25	14.75	16.25	14.75	16.25	14.75
	67-75			15.50	14.00	15.50	14.00	15.50	14.00
	83			15.50	14.00	15.50	14.00	15.50	14.00
	91			15.50	14.00	15.50	14.00	15.50	14.00
	99-107			NS	NS	NS	NS	NS	NS
	115			NS	NS	NS	NS	NS	NS
	123-179			16.00	14.50	16.00	14.50	16.00	14.50
	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			16.25	14.75	16.25	14.75	16.25	14.75
	23			16.25	14.75	16.25	14.75	16.25	14.75
	39-55			16.25	14.75	16.25	14.75	16.25	14.75
	71			15.50	14.00	15.50	14.00	15.50	14.00
	87			15.50	14.00	15.50	14.00	15.50	14.00
	103			NS	NS	NS	NS	NS	NS
	119			NS	NS	NS	NS	NS	NS
	135-167			16.00	14.50	16.00	14.50	16.00	14.50
	183			NS	NS	NS	NS	NS	NS
	199			NS	NS	NS	NS	NS	NS
	215			NS	NS	NS	NS	NS	NS
6 GHz WiFi (160MHz BW) SP	15			16.25	14.75	16.25	14.75	16.25	14.75
	47			16.25	14.75	16.25	14.75	16.25	14.75
	79			15.50	14.00	15.50	14.00	15.50	14.00
	111			NS	NS	NS	NS	NS	NS
	143			16.00	14.50	16.00	14.50	16.00	14.50
	175			NS	NS	NS	NS	NS	NS
	207			NS	NS	NS	NS	NS	NS

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

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Mode	IEEE 802.11 (Maximum in dBm) - Antenna WF7a								
	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	6.25	4.75	6.75	5.25	1.00	-0.50	4.00	2.50
	5	6.25	4.75	6.75	5.25	1.00	-0.50	4.00	2.50
	9-29	6.25	4.75	6.75	5.25	1.00	-0.50	4.00	2.50
	33-61	8.50	7.00	9.00	7.50	3.00	1.50	6.00	4.50
	65-85	7.00	5.50	7.50	6.00	2.50	1.00	5.50	4.00
	89	7.00	5.50	7.50	6.00	2.50	1.00	5.50	4.00
	93	7.00	5.50	7.50	6.00	2.50	1.00	5.50	4.00
	97-113	6.25	4.75	6.75	5.25	1.50	0.00	4.50	3.00
	117-181	5.75	4.25	6.25	4.75	1.00	-0.50	4.00	2.50
	185	5.75	4.25	6.25	4.75	1.00	-0.50	4.00	2.50
	189-225	6.75	5.25	7.25	5.75	1.75	0.25	4.75	3.25
	229	6.75	5.25	7.25	5.75	1.75	0.25	4.75	3.25
	233	6.75	5.25	7.25	5.75	1.75	0.25	4.75	3.25
	3			9.75	8.25	4.00	2.50	7.00	5.50
	11			9.75	8.25	4.00	2.50	7.00	5.50
6 GHz WiFi (40MHz BW) LP	19-27			9.75	8.25	4.00	2.50	7.00	5.50
	35-59			12.00	10.50	6.00	4.50	9.00	7.50
	67-75			10.50	9.00	5.50	4.00	8.50	7.00
	83			10.50	9.00	5.50	4.00	8.50	7.00
	91			10.50	9.00	5.50	4.00	8.50	7.00
	99-107			9.75	8.25	4.50	3.00	7.50	6.00
	115			9.25	7.75	4.00	2.50	7.00	5.50
	123-179			9.25	7.75	4.00	2.50	7.00	5.50
	187			9.25	7.75	4.00	2.50	7.00	5.50
	195-219			10.25	8.75	4.75	3.25	7.75	6.25
	227			10.25	8.75	4.75	3.25	7.75	6.25
	7			12.25	10.75	6.50	5.00	9.50	8.00
6 GHz WiFi (80MHz BW) LP	23			12.25	10.75	6.50	5.00	9.50	8.00
	39-55			13.75	12.25	8.50	7.00	11.50	10.00
	71			13.00	11.50	8.00	6.50	11.00	9.50
	87			13.00	11.50	8.00	6.50	11.00	9.50
	103			12.25	10.75	7.00	5.50	10.00	8.50
	119			11.75	10.25	6.50	5.00	9.50	8.00
	135-167			11.75	10.25	6.50	5.00	9.50	8.00
	183			11.75	10.25	6.50	5.00	9.50	8.00
	199			12.75	11.25	7.25	5.75	10.25	8.75
	215			12.75	11.25	7.25	5.75	10.25	8.75
	15			13.75	12.25	9.00	7.50	12.00	10.50
	47			13.75	12.25	11.00	9.50	13.75	12.25
6 GHz WiFi (160MHz BW) LP	79			13.75	12.25	10.50	9.00	13.50	12.00
	111			13.00	11.50	9.00	7.50	12.00	10.50
	143			14.25	12.75	9.00	7.50	12.00	10.50
	175			13.75	12.25	9.00	7.50	12.00	10.50
	207			13.75	12.25	9.75	8.25	12.75	11.25

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

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Mode	IEEE 802.11 (Maximum in dBm) - Antenna WF7a								
	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	4.50	3.00	5.00	3.50	-1.00	-2.50	2.00	0.50
	65-85	3.00	1.50	3.50	2.00	-1.50	-3.00	1.50	0.00
	89	3.00	1.50	3.50	2.00	-1.50	-3.00	1.50	0.00
	93	3.00	1.50	3.50	2.00	-1.50	-3.00	1.50	0.00
	97-113	NS	NS	NS	NS	NS	NS	NS	NS
	117-181	1.75	0.25	2.25	0.75	NS	NS	0.00	-1.50
	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) VLP	3	NS	NS	NS	NS	NS	NS	NS	NS
	11	NS	NS	NS	NS	NS	NS	NS	NS
	19-27	NS	NS	NS	NS	NS	NS	NS	NS
	35-59	NS	NS	8.00	6.50	2.00	0.50	5.00	3.50
	67-75	NS	NS	6.50	5.00	1.50	0.00	4.50	3.00
	83	NS	NS	6.50	5.00	1.50	0.00	4.50	3.00
	91	NS	NS	6.50	5.00	1.50	0.00	4.50	3.00
	99-107	NS	NS	NS	NS	NS	NS	NS	NS
	115	NS	NS	NS	NS	NS	NS	NS	NS
	123-179	NS	NS	5.25	3.75	0.00	-1.50	3.00	1.50
	187	NS	NS	NS	NS	NS	NS	NS	NS
	195-219	NS	NS	NS	NS	NS	NS	NS	NS
	227	NS	NS	NS	NS	NS	NS	NS	NS
	7	NS	NS	NS	NS	NS	NS	NS	NS
6 GHz WiFi (80MHz BW) VLP	23	NS	NS	NS	NS	NS	NS	NS	NS
	39-55	NS	NS	10.50	9.00	4.50	3.00	7.50	6.00
	71	NS	NS	9.00	7.50	4.00	2.50	7.00	5.50
	87	NS	NS	9.00	7.50	4.00	2.50	7.00	5.50
	103	NS	NS	NS	NS	NS	NS	NS	NS
	119	NS	NS	NS	NS	NS	NS	NS	NS
	135-167	NS	NS	7.75	6.25	2.50	1.00	5.50	4.00
	183	NS	NS	NS	NS	NS	NS	NS	NS
	199	NS	NS	NS	NS	NS	NS	NS	NS
	215	NS	NS	NS	NS	NS	NS	NS	NS
6 GHz WiFi (160MHz BW) VLP	15	NS	NS	NS	NS	NS	NS	NS	NS
	47	NS	NS	13.00	11.50	7.00	5.50	10.00	8.50
	79	NS	NS	11.50	10.00	6.50	5.00	9.50	8.00
	111	NS	NS	NS	NS	NS	NS	NS	NS
	143	NS	NS	10.25	8.75	5.00	3.50	8.00	6.50
	175	NS	NS	NS	NS	NS	NS	NS	NS
	207	NS	NS	NS	NS	NS	NS	NS	NS

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

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Mode	Channel	IEEE 802.11 (Maximum in dBm) - Antenna W7a							
		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	13.75	12.25	13.75	12.25	13.75	12.25	13.75	12.25
	5	13.75	12.25	13.75	12.25	13.75	12.25	13.75	12.25
	9-29	13.75	12.25	13.75	12.25	13.75	12.25	13.75	12.25
	33-61	13.75	12.25	13.75	12.25	13.75	12.25	13.75	12.25
	65-85	13.75	12.25	13.75	12.25	13.75	12.25	13.75	12.25
	89	13.75	12.25	13.75	12.25	13.75	12.25	13.75	12.25
	93	13.75	12.25	13.75	12.25	13.75	12.25	13.75	12.25
	97-113	NS	NS	NS	NS	NS	NS	NS	NS
	117-181	13.00	11.50	13.00	11.50	13.00	11.50	13.00	11.50
	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			13.75	12.25	13.75	12.25	13.75	12.25
	11			13.75	12.25	13.75	12.25	13.75	12.25
	19-27			13.75	12.25	13.75	12.25	13.75	12.25
	35-59			13.75	12.25	13.75	12.25	13.75	12.25
	67-75			13.75	12.25	13.75	12.25	13.75	12.25
	83			13.75	12.25	13.75	12.25	13.75	12.25
	91			13.75	12.25	13.75	12.25	13.75	12.25
	99-107			NS	NS	NS	NS	NS	NS
	115			NS	NS	NS	NS	NS	NS
	123-179			13.00	11.50	13.00	11.50	13.00	11.50
	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			13.75	12.25	13.75	12.25	13.75	12.25
	23			13.75	12.25	13.75	12.25	13.75	12.25
	39-55			13.75	12.25	13.75	12.25	13.75	12.25
	71			13.75	12.25	13.75	12.25	13.75	12.25
	87			13.75	12.25	13.75	12.25	13.75	12.25
	103			NS	NS	NS	NS	NS	NS
	119			NS	NS	NS	NS	NS	NS
	135-167			13.75	12.25	13.75	12.25	13.75	12.25
	183			NS	NS	NS	NS	NS	NS
	199			NS	NS	NS	NS	NS	NS
	215			NS	NS	NS	NS	NS	NS
6 GHz WiFi (160MHz BW) SP	15			13.75	12.25	13.75	12.25	13.75	12.25
	47			13.75	12.25	13.75	12.25	13.75	12.25
	79			13.75	12.25	13.75	12.25	13.75	12.25
	111			NS	NS	NS	NS	NS	NS
	143			14.75	13.25	14.75	13.25	14.75	13.25
	175			NS	NS	NS	NS	NS	NS
	207			NS	NS	NS	NS	NS	NS

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

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Mode	IEEE 802.11 (Maximum in dBm) - Antenna WF2a								
	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	6.25	4.75	6.75	5.25	1.00	-0.50	4.00	2.50
	5	6.25	4.75	6.75	5.25	1.00	-0.50	4.00	2.50
	9-29	6.25	4.75	6.75	5.25	1.00	-0.50	4.00	2.50
	33-61	8.50	7.00	9.00	7.50	3.00	1.50	6.00	4.50
	65-85	7.00	5.50	7.50	6.00	2.50	1.00	5.50	4.00
	89	7.00	5.50	7.50	6.00	2.50	1.00	5.50	4.00
	93	7.00	5.50	7.50	6.00	2.50	1.00	5.50	4.00
	97-113	6.25	4.75	6.75	5.25	1.50	0.00	4.50	3.00
	117-181	5.75	4.25	6.25	4.75	1.00	-0.50	4.00	2.50
	185	5.75	4.25	6.25	4.75	1.00	-0.50	4.00	2.50
	189-225	6.75	5.25	7.25	5.75	1.75	0.25	4.75	3.25
	229	6.75	5.25	7.25	5.75	1.75	0.25	4.75	3.25
	233	6.75	5.25	7.25	5.75	1.75	0.25	4.75	3.25
	3				8.25	4.00	2.50	7.00	5.50
6 GHz WiFi (40MHz BW) LP	11				8.25	4.00	2.50	7.00	5.50
	19-27				8.25	4.00	2.50	7.00	5.50
	35-59			11.75	10.25	6.00	4.50	9.00	7.50
	67-75			10.50	9.00	5.50	4.00	8.50	7.00
	83			10.50	9.00	5.50	4.00	8.50	7.00
	91			10.50	9.00	5.50	4.00	8.50	7.00
	99-107			9.75	8.25	4.50	3.00	7.50	6.00
	115			9.25	7.75	4.00	2.50	7.00	5.50
	123-179			9.25	7.75	4.00	2.50	7.00	5.50
	187			9.25	7.75	4.00	2.50	7.00	5.50
	195-219			10.25	8.75	4.75	3.25	7.75	6.25
	227			10.25	8.75	4.75	3.25	7.75	6.25
6 GHz WiFi (80MHz BW) LP	7			11.75	10.25	6.50	5.00	9.50	8.00
	23			11.75	10.25	6.50	5.00	9.50	8.00
	39-55			11.75	10.25	8.50	7.00	11.50	10.00
	71			12.75	11.25	8.00	6.50	11.00	9.50
	87			12.75	11.25	8.00	6.50	11.00	9.50
	103			12.25	10.75	7.00	5.50	10.00	8.50
	119			11.75	10.25	6.50	5.00	9.50	8.00
	135-167			11.75	10.25	6.50	5.00	9.50	8.00
	183			11.75	10.25	6.50	5.00	9.50	8.00
	199			11.75	10.25	7.25	5.75	10.25	8.75
	215			11.75	10.25	7.25	5.75	10.25	8.75
	227			11.75	10.25	7.25	5.75	10.25	8.75
6 GHz WiFi (160MHz BW) LP	15			11.75	10.25	9.00	7.50	11.75	10.25
	47			11.75	10.25	11.00	9.50	11.75	10.25
	79			12.75	11.25	10.50	9.00	12.75	11.25
	111			12.75	11.25	9.00	7.50	12.00	10.50
	143			12.25	10.75	9.00	7.50	12.00	10.50
	175			11.75	10.25	9.00	7.50	11.75	10.25
	207			11.75	10.25	9.75	8.25	11.75	10.25

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

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Mode	IEEE 802.11 (Maximum in dBm) - Antenna WF2a								
	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	4.50	3.00	5.00	3.50	-1.00	-2.50	2.00	0.50
	65-85	3.00	1.50	3.50	2.00	-1.50	-3.00	1.50	0.00
	89	3.00	1.50	3.50	2.00	-1.50	-3.00	1.50	0.00
	93	3.00	1.50	3.50	2.00	-1.50	-3.00	1.50	0.00
	97-113	NS	NS	NS	NS	NS	NS	NS	NS
	117-181	1.75	0.25	2.25	0.75	NS	NS	0.00	-1.50
	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) 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			8.00	6.50	2.00	0.50	5.00	3.50
	67-75			6.50	5.00	1.50	0.00	4.50	3.00
	83			6.50	5.00	1.50	0.00	4.50	3.00
	91			6.50	5.00	1.50	0.00	4.50	3.00
	99-107			NS	NS	NS	NS	NS	NS
	115			NS	NS	NS	NS	NS	NS
	123-179			5.25	3.75	0.00	-1.50	3.00	1.50
	187			NS	NS	NS	NS	NS	NS
	195-219			NS	NS	NS	NS	NS	NS
	227			NS	NS	NS	NS	NS	NS
	7			NS	NS	NS	NS	NS	NS
6 GHz WiFi (80MHz BW) VLP	23			NS	NS	NS	NS	NS	NS
	39-55			10.50	9.00	4.50	3.00	7.50	6.00
	71			9.00	7.50	4.00	2.50	7.00	5.50
	87			9.00	7.50	4.00	2.50	7.00	5.50
	103			NS	NS	NS	NS	NS	NS
	119			NS	NS	NS	NS	NS	NS
	135-167			7.75	6.25	2.50	1.00	5.50	4.00
	183			NS	NS	NS	NS	NS	NS
	199			NS	NS	NS	NS	NS	NS
	215			NS	NS	NS	NS	NS	NS
	15			NS	NS	NS	NS	NS	NS
	47			11.75	10.25	7.00	5.50	10.00	8.50
	79			11.50	10.00	6.50	5.00	9.50	8.00
	111			NS	NS	NS	NS	NS	NS
6 GHz WiFi (160MHz BW) VLP	143			10.25	8.75	5.00	3.50	8.00	6.50
	175			NS	NS	NS	NS	NS	NS
	207			NS	NS	NS	NS	NS	NS

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

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Mode	IEEE 802.11 (Maximum in dBm) - Antenna WF2a								
	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	11.75	10.25	11.75	10.25	11.75	10.25	11.75	10.25
	5	11.75	10.25	11.75	10.25	11.75	10.25	11.75	10.25
	9-29	11.75	10.25	11.75	10.25	11.75	10.25	11.75	10.25
	33-61	11.75	10.25	11.75	10.25	11.75	10.25	11.75	10.25
	65-85	12.75	11.25	12.75	11.25	12.75	11.25	12.75	11.25
	89	12.75	11.25	12.75	11.25	12.75	11.25	12.75	11.25
	93	12.75	11.25	12.75	11.25	12.75	11.25	12.75	11.25
	97-113	NS	NS	NS	NS	NS	NS	NS	NS
	117-181	11.75	10.25	11.75	10.25	11.75	10.25	11.75	10.25
	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			11.75	10.25	11.75	10.25	11.75	10.25
	11			11.75	10.25	11.75	10.25	11.75	10.25
	19-27			11.75	10.25	11.75	10.25	11.75	10.25
	35-59			11.75	10.25	11.75	10.25	11.75	10.25
	67-75			12.75	11.25	12.75	11.25	12.75	11.25
	83			12.75	11.25	12.75	11.25	12.75	11.25
	91			12.75	11.25	12.75	11.25	12.75	11.25
	99-107			NS	NS	NS	NS	NS	NS
	115			NS	NS	NS	NS	NS	NS
	123-179			11.75	10.25	11.75	10.25	11.75	10.25
	187			NS	NS	NS	NS	NS	NS
	195-219			NS	NS	NS	NS	NS	NS
	227			NS	NS	NS	NS	NS	NS
	231			11.75	10.25	11.75	10.25	11.75	10.25
	235			11.75	10.25	11.75	10.25	11.75	10.25
6 GHz WiFi (80MHz BW) SP	39-55			11.75	10.25	11.75	10.25	11.75	10.25
	71			12.75	11.25	12.75	11.25	12.75	11.25
	87			12.75	11.25	12.75	11.25	12.75	11.25
	103			NS	NS	NS	NS	NS	NS
	119			NS	NS	NS	NS	NS	NS
	135-167			11.75	10.25	11.75	10.25	11.75	10.25
	183			NS	NS	NS	NS	NS	NS
	199			NS	NS	NS	NS	NS	NS
	215			NS	NS	NS	NS	NS	NS
	233			11.75	10.25	11.75	10.25	11.75	10.25
	237			11.75	10.25	11.75	10.25	11.75	10.25
	241			12.75	11.25	12.75	11.25	12.75	11.25
	245			NS	NS	NS	NS	NS	NS
	249			12.25	10.75	12.25	10.75	12.25	10.75
	253			NS	NS	NS	NS	NS	NS
6 GHz WiFi (160MHz BW) SP	207			NS	NS	NS	NS	NS	NS

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

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1.3.2 Bluetooth Maximum Output Power

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna WF7b	Modulated Average (iPA) Single Tx Chain (dBm) Antenna WF7b
Bluetooth BDR	Maximum	19.00	11.00
	Nominal	17.50	9.50
Bluetooth EDR	Maximum	14.00	7.50
	Nominal	12.50	6.00
Bluetooth LE	Maximum	19.00	11.00
	Nominal	17.50	9.50
Bluetooth HDR4	Maximum	13.00	5.00
	Nominal	11.50	3.50
Bluetooth HDR8	Maximum	13.00	5.00
	Nominal	11.50	3.50
Mode / Band		Modulated Average (ePA) TXBF (dBm) Antenna WF7b	Modulated Average (iPA) TXBF (dBm) Antenna WF7b
Bluetooth BDR	Maximum	17.00	11.00
	Nominal	15.50	9.50
Bluetooth EDR	Maximum	13.50	7.50
	Nominal	12.00	6.00
Bluetooth LE	Maximum	19.00	11.00
	Nominal	17.50	9.50
Bluetooth HDR4	Maximum	13.00	5.00
	Nominal	11.50	3.50
Bluetooth HDR8	Maximum	13.00	5.00
	Nominal	11.50	3.50

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

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Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna WF2b	Modulated Average (iPA) Single Tx Chain (dBm) Antenna WF2b
Bluetooth BDR	Maximum	19.00	11.00
	Nominal	17.50	9.50
Bluetooth EDR	Maximum	14.00	7.50
	Nominal	12.50	6.00
Bluetooth LE	Maximum	19.00	11.00
	Nominal	17.50	9.50
Bluetooth HDR4	Maximum	13.00	5.00
	Nominal	11.50	3.50
Bluetooth HDR8	Maximum	13.00	5.00
	Nominal	11.50	3.50
Mode / Band		Modulated Average (ePA) TXBF (dBm) Antenna WF2b	Modulated Average (iPA) TXBF (dBm) Antenna WF2b
Bluetooth BDR	Maximum	17.00	11.00
	Nominal	15.50	9.50
Bluetooth EDR	Maximum	13.50	7.50
	Nominal	12.00	6.00
Bluetooth LE	Maximum	19.00	11.00
	Nominal	17.50	9.50
Bluetooth HDR4	Maximum	13.00	5.00
	Nominal	11.50	3.50
Bluetooth HDR8	Maximum	13.00	5.00
	Nominal	11.50	3.50

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

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1.3.3 Bluetooth Reduced Output Power

Table below is applicable in the following conditions:

- Simultaneous conditions with 5/6 GHz WLAN and wPT active

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna WF7b	Modulated Average (iPA) Single Tx Chain (dBm) Antenna WF7b
Bluetooth BDR	Maximum	14.50	11.00
	Nominal	13.00	9.50
Bluetooth EDR	Maximum	14.00	7.50
	Nominal	12.50	6.00
Bluetooth LE	Maximum	14.50	11.00
	Nominal	13.00	9.50
Bluetooth HDR4	Maximum	13.00	5.00
	Nominal	11.50	3.50
Bluetooth HDR8	Maximum	13.00	5.00
	Nominal	11.50	3.50
Mode / Band		Modulated Average (ePA) TXBF (dBm) Antenna WF7b	Modulated Average (iPA) TXBF (dBm) Antenna WF7b
Bluetooth BDR	Maximum	14.50	11.00
	Nominal	13.00	9.50
Bluetooth EDR	Maximum	13.50	7.50
	Nominal	12.00	6.00
Bluetooth LE	Maximum	14.50	11.00
	Nominal	13.00	9.50
Bluetooth HDR4	Maximum	13.00	5.00
	Nominal	11.50	3.50
Bluetooth HDR8	Maximum	13.00	5.00
	Nominal	11.50	3.50

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

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Table below is applicable in the following conditions:

- Simultaneous conditions with 5/6 GHz WLAN and wPT active

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna WF2b	Modulated Average (iPA) Single Tx Chain (dBm) Antenna WF2b
Bluetooth BDR	Maximum	14.50	11.00
	Nominal	13.00	9.50
Bluetooth EDR	Maximum	14.00	7.50
	Nominal	12.50	6.00
Bluetooth LE	Maximum	14.50	11.00
	Nominal	13.00	9.50
Bluetooth HDR4	Maximum	13.00	5.00
	Nominal	11.50	3.50
Bluetooth HDR8	Maximum	13.00	5.00
	Nominal	11.50	3.50
Mode / Band		Modulated Average (ePA) TXBF (dBm) Antenna WF2b	Modulated Average (iPA) TXBF (dBm) Antenna WF2b
Bluetooth BDR	Maximum	14.50	11.00
	Nominal	13.00	9.50
Bluetooth EDR	Maximum	13.50	7.50
	Nominal	12.00	6.00
Bluetooth LE	Maximum	14.50	11.00
	Nominal	13.00	9.50
Bluetooth HDR4	Maximum	13.00	5.00
	Nominal	11.50	3.50
Bluetooth HDR8	Maximum	13.00	5.00
	Nominal	11.50	3.50

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

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1.3.4 802.15.4 Maximum Output Power

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna WF7b	Modulated Average (iPA) Single Tx Chain (dBm) Antenna WF7b
802.15.4	Maximum	21.00	11.00
	Nominal	19.50	9.50

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna WF2b	Modulated Average (iPA) Single Tx Chain (dBm) Antenna WF2b
802.15.4	Maximum	21.00	11.00
	Nominal	19.50	9.50

1.3.5 802.15.4 Reduced Output Power

Table below is applicable in the following conditions:

- Simultaneous conditions with 5/6 GHz WLAN and wPT active

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna WF7b	Modulated Average (iPA) Single Tx Chain (dBm) Antenna WF7b
802.15.4	Maximum	15.50	11.00
	Nominal	14.00	9.50

Table below is applicable in the following conditions:

- Simultaneous conditions with 5/6 GHz WLAN and wPT active

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna WF2b	Modulated Average (iPA) Single Tx Chain (dBm) Antenna WF2b
802.15.4	Maximum	15.50	11.00
	Nominal	14.00	9.50

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1.3.6 NB UNII Maximum Output Power

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna WF7b	Modulated Average (iPA) Single Tx Chain (dBm) Antenna WF7b
NB UNII-1 BDR	Maximum	10.00	5.50
	Nominal	8.50	4.00
NB UNII-1 HDR4	Maximum	11.50	0.50
	Nominal	10.00	-1.00
NB UNII-1 HDR8	Maximum	11.50	0.50
	Nominal	10.00	-1.00

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

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna WF7a	Modulated Average (iPA) Single Tx Chain (dBm) Antenna WF7a
NB UNII-1 BDR	Maximum	10.00	6.00
	Nominal	8.50	4.50
NB UNII-1 HDR4	Maximum	12.00	1.00
	Nominal	10.50	-0.50
NB UNII-1 HDR8	Maximum	12.00	1.00
	Nominal	10.50	-0.50
Mode / Band		Modulated Average (ePA) TXBF (dBm) Antenna WF7a	Modulated Average (iPA) TXBF (dBm) Antenna WF7a
NB UNII-1 BDR	Maximum	7.00	6.00
	Nominal	5.50	4.50
NB UNII-1 HDR4	Maximum	9.50	1.00
	Nominal	8.00	-0.50
NB UNII-1 HDR8	Maximum	12.00	1.00
	Nominal	10.50	-0.50

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

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Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna WF2a	Modulated Average (iPA) Single Tx Chain (dBm) Antenna WF2a
NB UNII-1 BDR	Maximum	10.00	5.00
	Nominal	8.50	3.50
NB UNII-1 HDR4	Maximum	12.50	0.00
	Nominal	11.00	-1.50
NB UNII-1 HDR8	Maximum	13.00	0.00
	Nominal	11.50	-1.50
Mode / Band		Modulated Average (ePA) TXBF (dBm) Antenna WF2a	Modulated Average (iPA) TXBF (dBm) Antenna WF2a
NB UNII-1 BDR	Maximum	7.00	5.00
	Nominal	5.50	3.50
NB UNII-1 HDR4	Maximum	9.50	0.00
	Nominal	8.00	-1.50
NB UNII-1 HDR8	Maximum	12.00	0.00
	Nominal	10.50	-1.50

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

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna WF7b	Modulated Average (iPA) Single Tx Chain (dBm) Antenna WF7b
NB UNII-3 BDR	Maximum	12.50	6.00
	Nominal	11.00	4.50
NB UNII-3 HDR4	Maximum	12.50	1.00
	Nominal	11.00	-0.50
NB UNII-3 HDR8	Maximum	12.50	1.00
	Nominal	11.00	-0.50

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

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Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna WF7a	Modulated Average (iPA) Single Tx Chain (dBm) Antenna WF7a
NB UNII-3 BDR	Maximum	13.00	6.50
	Nominal	11.50	5.00
NB UNII-3 HDR4	Maximum	13.00	1.50
	Nominal	11.50	0.00
NB UNII-3 HDR8	Maximum	13.00	1.50
	Nominal	11.50	0.00
Mode / Band		Modulated Average (ePA) TXBF (dBm) Antenna WF7a	Modulated Average (iPA) TXBF (dBm) Antenna WF7a
NB UNII-3 BDR	Maximum	13.00	6.50
	Nominal	11.50	5.00
NB UNII-3 HDR4	Maximum	13.00	1.50
	Nominal	11.50	0.00
NB UNII-3 HDR8	Maximum	13.00	1.50
	Nominal	11.50	0.00

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

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna WF2a	Modulated Average (iPA) Single Tx Chain (dBm) Antenna WF2a
NB UNII-3 BDR	Maximum	14.00	5.50
	Nominal	12.50	4.00
NB UNII-3 HDR4	Maximum	14.00	0.50
	Nominal	12.50	-1.00
NB UNII-3 HDR8	Maximum	14.00	0.50
	Nominal	12.50	-1.00
Mode / Band		Modulated Average (ePA) TXBF (dBm) Antenna WF2a	Modulated Average (iPA) TXBF (dBm) Antenna WF2a
NB UNII-3 BDR	Maximum	14.00	5.50
	Nominal	12.50	4.00
NB UNII-3 HDR4	Maximum	14.00	0.50
	Nominal	12.50	-1.00
NB UNII-3 HDR8	Maximum	14.00	0.50
	Nominal	12.50	-1.00

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

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1.3.7 NB UNII Reduced Output Power

Table below is applicable in the following conditions:

- Simultaneous conditions with 2.4 GHz WLAN and wPT active

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna WF7a	Modulated Average (iPA) Single Tx Chain (dBm) Antenna WF7a
NB UNII-1 BDR	Maximum	10.00	6.00
	Nominal	8.50	4.50
NB UNII-1 HDR4	Maximum	11.00	1.00
	Nominal	9.50	-0.50
NB UNII-1 HDR8	Maximum	11.00	1.00
	Nominal	9.50	-0.50
Mode / Band		Modulated Average (ePA) TXBF (dBm) Antenna WF7a	Modulated Average (iPA) TXBF (dBm) Antenna WF7a
NB UNII-1 BDR	Maximum	7.00	6.00
	Nominal	5.50	4.50
NB UNII-1 HDR4	Maximum	9.50	1.00
	Nominal	8.00	-0.50
NB UNII-1 HDR8	Maximum	11.00	1.00
	Nominal	9.50	-0.50

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

Table below is applicable in the following conditions:

- Simultaneous conditions with 2.4 GHz WLAN and wPT active

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna WF7a	Modulated Average (iPA) Single Tx Chain (dBm) Antenna WF7a
NB UNII-3 BDR	Maximum	9.50	6.50
	Nominal	8.00	5.00
NB UNII-3 HDR4	Maximum	9.50	1.50
	Nominal	8.00	0.00
NB UNII-3 HDR8	Maximum	9.50	1.50
	Nominal	8.00	0.00
Mode / Band		Modulated Average (ePA) TXBF (dBm) Antenna WF7a	Modulated Average (iPA) TXBF (dBm) Antenna WF7a
NB UNII-3 BDR	Maximum	9.50	6.50
	Nominal	8.00	5.00
NB UNII-3 HDR4	Maximum	9.50	1.50
	Nominal	8.00	0.00
NB UNII-3 HDR8	Maximum	9.50	1.50
	Nominal	8.00	0.00

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

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Table below is applicable in the following conditions:

- Simultaneous conditions with 2.4 GHz WLAN and wPT active

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna WF2a	Modulated Average (iPA) Single Tx Chain (dBm) Antenna WF2a
NB UNII-1 BDR	Maximum	10.00	5.00
	Nominal	8.50	3.50
NB UNII-1 HDR4	Maximum	12.50	0.00
	Nominal	11.00	-1.50
NB UNII-1 HDR8	Maximum	12.50	0.00
	Nominal	11.00	-1.50
Mode / Band		Modulated Average (ePA) TXBF (dBm) Antenna WF2a	Modulated Average (iPA) TXBF (dBm) Antenna WF2a
NB UNII-1 BDR	Maximum	7.00	5.00
	Nominal	5.50	3.50
NB UNII-1 HDR4	Maximum	9.50	0.00
	Nominal	8.00	-1.50
NB UNII-1 HDR8	Maximum	12.00	0.00
	Nominal	10.50	-1.50

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

Table below is applicable in the following conditions:

- Simultaneous conditions with 2.4 GHz WLAN and wPT active

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna WF2a	Modulated Average (iPA) Single Tx Chain (dBm) Antenna WF2a
NB UNII-3 BDR	Maximum	9.50	5.50
	Nominal	8.00	4.00
NB UNII-3 HDR4	Maximum	9.50	0.50
	Nominal	8.00	-1.00
NB UNII-3 HDR8	Maximum	9.50	0.50
	Nominal	8.00	-1.00
Mode / Band		Modulated Average (ePA) TXBF (dBm) Antenna WF2a	Modulated Average (iPA) TXBF (dBm) Antenna WF2a
NB UNII-3 BDR	Maximum	9.50	5.50
	Nominal	8.00	4.00
NB UNII-3 HDR4	Maximum	9.50	0.50
	Nominal	8.00	-1.00
NB UNII-3 HDR8	Maximum	9.50	0.50
	Nominal	8.00	-1.00

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

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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.

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 Bluetooth (TxBF) + WPT	Yes
4	NB UNII (TxBF) + WPT	Yes
5	2.4 GHz Bluetooth Antenna WF2b + 2.4 GHz Wi-Fi Antenna WF7b + WPT	Yes
6	802.15.4 Antenna WF2b + 2.4 GHz Wi-Fi Antenna WF7b + WPT	Yes
7	2.4 GHz Bluetooth + 5/6 GHz Wi-Fi + WPT	Yes
8	802.15.4 + 5/6 GHz Wi-Fi + WPT	Yes
9	2.4 GHz Bluetooth + 5/6 GHz Wi-Fi MIMO + WPT	Yes
10	802.15.4 + 5/6 GHz Wi-Fi MIMO + WPT	Yes
11	2.4 GHz Bluetooth (TxBF) + 5/6 GHz Wi-Fi + WPT	Yes
12	2.4 GHz Bluetooth (TxBF) + 5/6 GHz Wi-Fi MIMO + WPT	Yes
13	NB UNII + 2.4 GHz Wi-Fi + WPT	Yes
14	NB UNII + 2.4 GHz Wi-Fi MIMO + WPT	Yes
15	NB UNII (TxBF) + 2.4 GHz Wi-Fi + WPT	Yes
16	NB UNII (TxBF) + 2.4 GHz Wi-Fi MIMO + WPT	Yes

- 2.4GHz WIFI and 2.4 GHz Bluetooth/802.15.4 can transmit simultaneously on separate antennas, Specific 2.4 GHz WIFI Antenna that can only transmit simultaneously with 2.4 GHz Bluetooth/802.15.4 is listed in the above table. In this scenario, Wi-Fi max power will not exceed minimum of (13.5 dBm, SAR max cap, Reg max cap) power. Additionally, in disconnected mode, BT will be using iPA only.
- Specific NB UNII TXBF Antennas that can only transmit simultaneously are listed in the Simultaneous Transmission Backoff Scenarios document.
- 2.4 GHz WLAN and 5 GHz WLAN cannot transmit simultaneously.
- This device supports 2x2 MIMO Tx for WLAN 802.11a/g/n/ac/ax. 802.11a/g/n/ac/ax supports CDD and 802.11n/ac/ax additionally supports SDM. Each WLAN antenna can transmit independently or together when operating with MIMO.
- 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 WF7a and Antenna WF2a and U-NII-2A was evaluated for Antenna WF7b. Additional testing for U-NII-1 Antenna WF7b and for U-NII-1 Antenna WF7a and Antenna WF2a 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. Two device variants are referenced as Variant 1 and Variant 2 in this report. WLAN/Bluetooth/802.15.4/NB UNII SAR worst case configuration was spotchecked on Variant 1 and Variant 2. The Variant with the highest reported SAR value was evaluated for the remaining WLAN/Bluetooth/802.15.4/NB UNII configurations.

This device supports channel 1-13 for 2.4 GHz WLAN. However, because channel 12/13 targets are not higher than that 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 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 \geq -1dB 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 (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.

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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 complete to calculate the SAR drift. If the drift deviated by more than 5%, the SAR test and drift measurements were repeated.

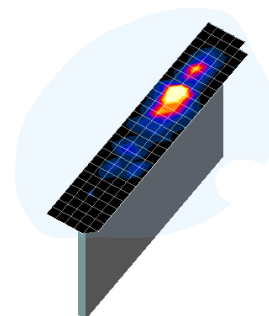


Figure 3-1
Sample SAR Area
Scan

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		
				$\Delta z_{\text{zoom}}(n)$	$\Delta z_{\text{zoom}}(n-1)^*$	
≤ 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 with the tablet touching the phantom. 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 persons who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure. Members of the general public would come under this category when exposure is not employment-related; for example, in the case of a wireless transmitter that exposes persons in its vicinity.

5.2 Controlled Environment

CONTROLLED ENVIRONMENTS are defined as locations where there is exposure that may be incurred by persons who are aware of the potential for exposure, (i.e. as a result of employment or occupation). In general, occupational/controlled exposure limits are applicable to situations in which persons are exposed as a consequence of their employment, who have been made fully aware of the potential for exposure and can exercise control over their exposure. 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/m² or mW/cm².

Peak Spatially Averaged Power Density was evaluated over a circular area of 4 cm² 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 mW/cm² is 10 W/m²

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6 FCC MEASUREMENT PROCEDURES

Power measurements for licensed transmitters are performed using a base station simulator under digital average power.

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 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

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tested independently according to the normally required OFDM SAR measurement and probe calibration frequency points requirements.

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 WF7b, Variant 1

2.4GHz WIFI (20MHz 802.11b SISO ANT WF7b)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	20.24
2437	6		20.25
2462	11		20.23
2.4GHz WIFI (20MHz 802.11g SISO ANT WF7b)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	14.50
2437	6		19.67
2462	11		16.65
2.4GHz WIFI (20MHz 802.11n SISO ANT WF7b)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	14.51
2437	6		19.62
2462	11		16.78

Table 7-2
2.4 GHz WLAN Maximum Average RF Power – Antenna WF7b, Variant 2

2.4GHz WIFI (20MHz 802.11b SISO ANT WF7b)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	20.19
2437	6		20.24
2462	11		20.20
2.4GHz WIFI (20MHz 802.11g SISO ANT WF7b)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	14.41
2437	6		19.78
2462	11		16.63
2.4GHz WIFI (20MHz 802.11n SISO ANT WF7b)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	14.37
2437	6		19.80
2462	11		16.90

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Table 7-3
2.4 GHz WLAN Maximum Average RF Power – Antenna WF2b, Variant 1

2.4GHz WIFI (20MHz 802.11b SISO ANT WF2b)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	19.65
2437	6		19.63
2462	11		19.73
2.4GHz WIFI (20MHz 802.11g SISO ANT WF2b)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	14.59
2437	6		19.76
2462	11		16.70
2.4GHz WIFI (20MHz 802.11n SISO ANT WF2b)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	14.67
2437	6		19.37
2462	11		16.68

Table 7-4
2.4 GHz WLAN Maximum Average RF Power – Antenna WF2b, Variant 2

2.4GHz WIFI (20MHz 802.11b SISO ANT WF2b)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	19.45
2437	6		19.57
2462	11		19.58
2.4GHz WIFI (20MHz 802.11g SISO ANT WF2b)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	14.63
2437	6		19.93
2462	11		16.79
2.4GHz WIFI (20MHz 802.11n SISO ANT WF2b)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	14.66
2437	6		19.23
2462	11		16.75

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7.2 5 GHz WLAN Maximum Time-Averaged Conducted Powers

Table 7-5
5 GHz WLAN Maximum Average RF Power – Antenna WF7b, Variant 1

5GHz WIFI (40MHz 802.11n SISO ANT WF7b)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	15.59
	5230	46	18.49
UNII-2A	5270	54	18.57
	5310	62	16.37
UNII-3	5755	151	18.40
	5795	159	18.37

5GHz WIFI (80MHz 802.11ac SISO ANT WF7b)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-2C	5530	106	13.48
	5610	122	17.83
	5690	138	17.76

5GHz WIFI (40MHz 802.11ac SISO ANT WF7b)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	15.41
	5230	46	18.43
UNII-2A	5270	54	18.41
	5310	62	16.62
UNII-3	5755	151	18.63
	5795	159	18.45

5GHz WIFI (80MHz 802.11ax SISO ANT WF7b)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-2C	5530	106	13.49
	5610	122	18.53
	5690	138	18.62

Table 7-6
5 GHz WLAN Maximum Average RF Power – Antenna WF7b, Variant 2

5GHz WIFI (40MHz 802.11n SISO ANT WF7b)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	15.39
	5230	46	18.43
UNII-2A	5270	54	18.55
	5310	62	16.55
UNII-3	5755	151	18.39
	5795	159	18.36

5GHz WIFI (80MHz 802.11ac SISO ANT WF7b)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-2C	5530	106	13.47
	5610	122	17.83
	5690	138	17.63

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5GHz WIFI (40MHz 802.11ac SISO ANT WF7b)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	15.50
	5230	46	18.45
UNII-2A	5270	54	18.48
	5310	62	16.42
UNII-3	5755	151	18.56
	5795	159	18.43
5GHz WIFI (80MHz 802.11ax SISO ANT WF7b)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-2C	5530	106	13.62
	5610	122	18.52
	5690	138	18.56

Table 7-7
5 GHz WLAN Maximum Average RF Power – Antenna WF7a, Variant 1

5GHz WIFI (40MHz 802.11n SISO ANT WF7a)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	15.45
	5230	46	16.08
UNII-2A	5270	54	15.09
	5310	62	14.92
5GHz WIFI (80MHz 802.11ac SISO ANT WF7a)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-2C	5530	106	14.12
	5610	122	14.11
	5690	138	14.39
UNII-3	5775	155	14.30

5GHz WIFI (40MHz 802.11ac SISO ANT WF7a)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	15.39
	5230	46	15.95
UNII-2A	5270	54	15.03
	5310	62	15.09
5GHz WIFI (80MHz 802.11ax SISO ANT WF7a)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-2C	5530	106	13.72
	5610	122	14.37
	5690	138	14.19
UNII-3	5775	155	14.62

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Table 7-8
5 GHz WLAN Maximum Average RF Power – Antenna WF7a, Variant 2

5GHz WIFI (40MHz 802.11n SISO ANT WF7a)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	15.61
	5230	46	16.02
UNII-2A	5270	54	14.89
	5310	62	14.93
5GHz WIFI (80MHz 802.11ac SISO ANT WF7a)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-2C	5530	106	14.22
	5610	122	14.13
	5690	138	14.53
UNII-3	5775	155	14.43

5GHz WIFI (40MHz 802.11ac SISO ANT WF7a)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	15.39
	5230	46	16.04
UNII-2A	5270	54	15.03
	5310	62	15.08
5GHz WIFI (80MHz 802.11ax SISO ANT WF7a)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-2C	5530	106	13.59
	5610	122	14.32
	5690	138	14.28
UNII-3	5775	155	14.77

Table 7-9
5 GHz WLAN Maximum Average RF Power – Antenna WF2a, Variant 1

5GHz WIFI (40MHz 802.11n SISO ANT WF2a)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	15.40
	5230	46	16.97
UNII-2A	5270	54	15.51
	5310	62	15.52
5GHz WIFI (80MHz 802.11ac SISO ANT WF2a)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-2C	5530	106	14.27
	5610	122	14.37
	5690	138	14.28
UNII-3	5775	155	14.37

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5GHz WIFI (40MHz 802.11ac SISO ANT WF2a)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	15.59
	5230	46	16.98
UNII-2A	5270	54	16.53
	5310	62	16.42
5GHz WIFI (80MHz 802.11ax SISO ANT WF2a)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-2C	5530	106	13.42
	5610	122	14.68
	5690	138	14.48
UNII-3	5775	155	15.00

Table 7-10
5 GHz WLAN Maximum Average RF Power – Antenna WF2a, Variant 2

5GHz WIFI (40MHz 802.11n SISO ANT WF2a)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	15.38
	5230	46	17.05
UNII-2A	5270	54	15.54
	5310	62	15.51
5GHz WIFI (80MHz 802.11ac SISO ANT WF2a)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-2C	5530	106	14.36
	5610	122	14.18
	5690	138	14.33
UNII-3	5775	155	14.26

5GHz WIFI (40MHz 802.11ac SISO ANT WF2a)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	15.47
	5230	46	16.96
UNII-2A	5270	54	16.61
	5310	62	16.45
5GHz WIFI (80MHz 802.11ax SISO ANT WF2a)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-2C	5530	106	13.65
	5610	122	14.69
	5690	138	14.95
UNII-3	5775	155	15.05

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7.3 6 GHz WLAN Maximum Time-Averaged Conducted Powers

Table 7-11

6 GHz WLAN Maximum Average RF Power – Antenna WF7b, Variant 1

6GHz WIFI (160MHz 802.11ax SISO ANT WF7b)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-5	6025	15	16.20
	6345	79	14.56
UNII-6	6505	111	13.41
UNII-7	6665	143	15.36
UNII-8	6985	207	14.41

Table 7-12

6 GHz WLAN Maximum Average RF Power – Antenna WF7b, Variant 2

6GHz WIFI (160MHz 802.11ax SISO ANT WF7b)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-5	6025	15	16.04
	6345	79	14.30
UNII-6	6505	111	13.53
UNII-7	6665	143	15.34
UNII-8	6985	207	14.38

Table 7-13

6 GHz WLAN Maximum Average RF Power – Antenna WF7a, Variant 1

6GHz WIFI (160MHz 802.11ax SISO ANT WF7a)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-5	6025	15	13.20
	6345	79	13.41
UNII-6	6505	111	12.52
UNII-7	6665	143	13.34
UNII-8	6985	207	12.99

Table 7-14

6 GHz WLAN Maximum Average RF Power – Antenna WF7a, Variant 2

6GHz WIFI (160MHz 802.11ax SISO ANT WF7a)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-5	6025	15	12.79
	6345	79	12.92
UNII-6	6505	111	12.55
UNII-7	6665	143	12.95
UNII-8	6985	207	13.17

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Table 7-15
6 GHz WLAN Maximum Average RF Power – Antenna WF2a, Variant 1

6GHz WIFI (160MHz 802.11ax SISO ANT WF2a)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-5	6025	15	11.62
	6345	79	12.43
UNII-6	6505	111	12.01
UNII-7	6665	143	11.60
UNII-8	6985	207	11.47

Table 7-16
6 GHz WLAN Maximum Average RF Power – Antenna WF2a, Variant 2

6GHz WIFI (160MHz 802.11ax SISO ANT WF2a)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-5	6025	15	11.18
	6345	79	12.02
UNII-6	6505	111	11.76
UNII-7	6665	143	11.46
UNII-8	6985	207	11.30

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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.
- The WLAN 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.
- Two device variants are referenced as Variant 1 and Variant 2 in this report.
- WLAN SAR worst case configuration was spotchecked on Variant 1 and Variant 2.

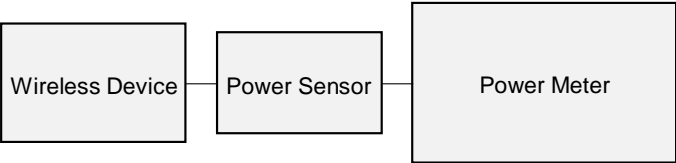


Figure 7-1
Power Measurement Setup

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7.5 Bluetooth Maximum Conducted Powers

Table 7-17
Bluetooth Average RF Power – Antenna WF7b, Variant 1

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	17.80	60.256
2441	GFSK	1.0	39	17.51	56.364
2480	GFSK	1.0	78	17.33	54.075

Table 7-18
Bluetooth Average RF Power – Antenna WF7b, Variant 2

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	17.29	53.580
2441	GFSK	1.0	39	17.54	56.754
2480	GFSK	1.0	78	17.27	53.333

Table 7-19
Bluetooth Average RF Power – Antenna WF2b, Variant 1

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	17.78	59.979
2441	GFSK	1.0	39	17.51	56.364
2480	GFSK	1.0	78	17.55	56.885

Table 7-20
Bluetooth Average RF Power – Antenna WF2b, Variant 2

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	17.88	61.376
2441	GFSK	1.0	39	17.40	54.954
2480	GFSK	1.0	78	17.63	57.943

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7.6 Bluetooth Reduced Conducted Powers

Table 7-21
Bluetooth 7 dB Reduced Average RF Power – Antenna WF7b, Variant 1

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	13.52	22.491
2441	GFSK	1.0	39	13.61	22.961
2480	GFSK	1.0	78	13.46	22.182

Table 7-22
Bluetooth 7 dB Reduced Average RF Power – Antenna WF7b, Variant 2

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	13.29	21.330
2441	GFSK	1.0	39	13.53	22.542
2480	GFSK	1.0	78	13.25	21.135

Table 7-23
Bluetooth 7 dB Reduced Average RF Power – Antenna WF2b, Variant 1

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	13.87	24.378
2441	GFSK	1.0	39	13.51	22.439
2480	GFSK	1.0	78	13.22	20.989

Table 7-24
Bluetooth 7 dB Reduced Average RF Power – Antenna WF2b, Variant 2

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	13.58	22.803
2441	GFSK	1.0	39	13.33	21.528
2480	GFSK	1.0	78	13.39	21.827

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7.7 Bluetooth Duty Cycle Plots

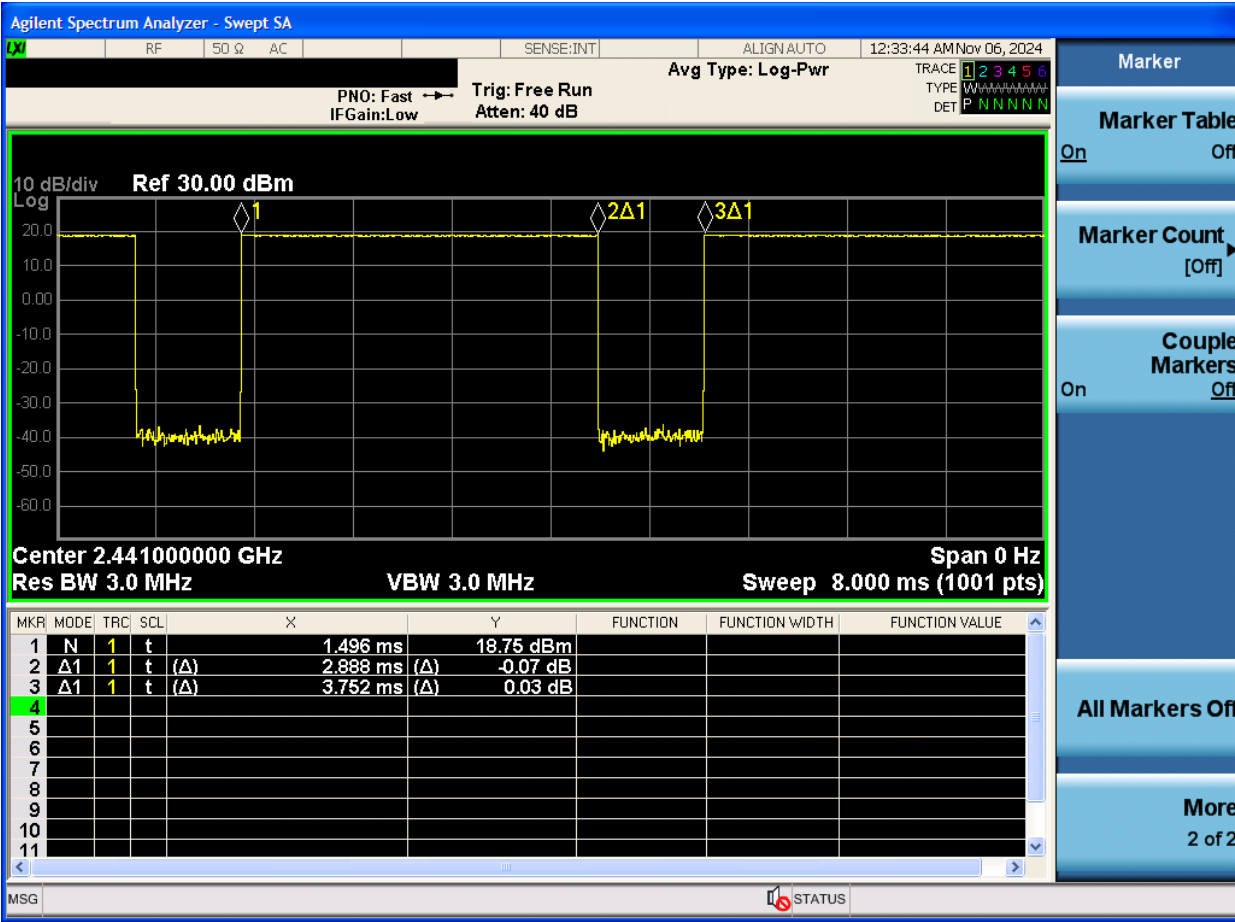


Figure 7-2
Bluetooth BDR Transmission Plot – Antenna WF7b, Variant 1

Equation 7-1
Bluetooth BDR Duty Cycle Calculation – Antenna WF7b, Variant 1

$$Duty\ Cycle = \frac{Pulse\ Width}{Period} * 100\% = \frac{2.888ms}{3.752ms} * 100\% = 76.97\%$$

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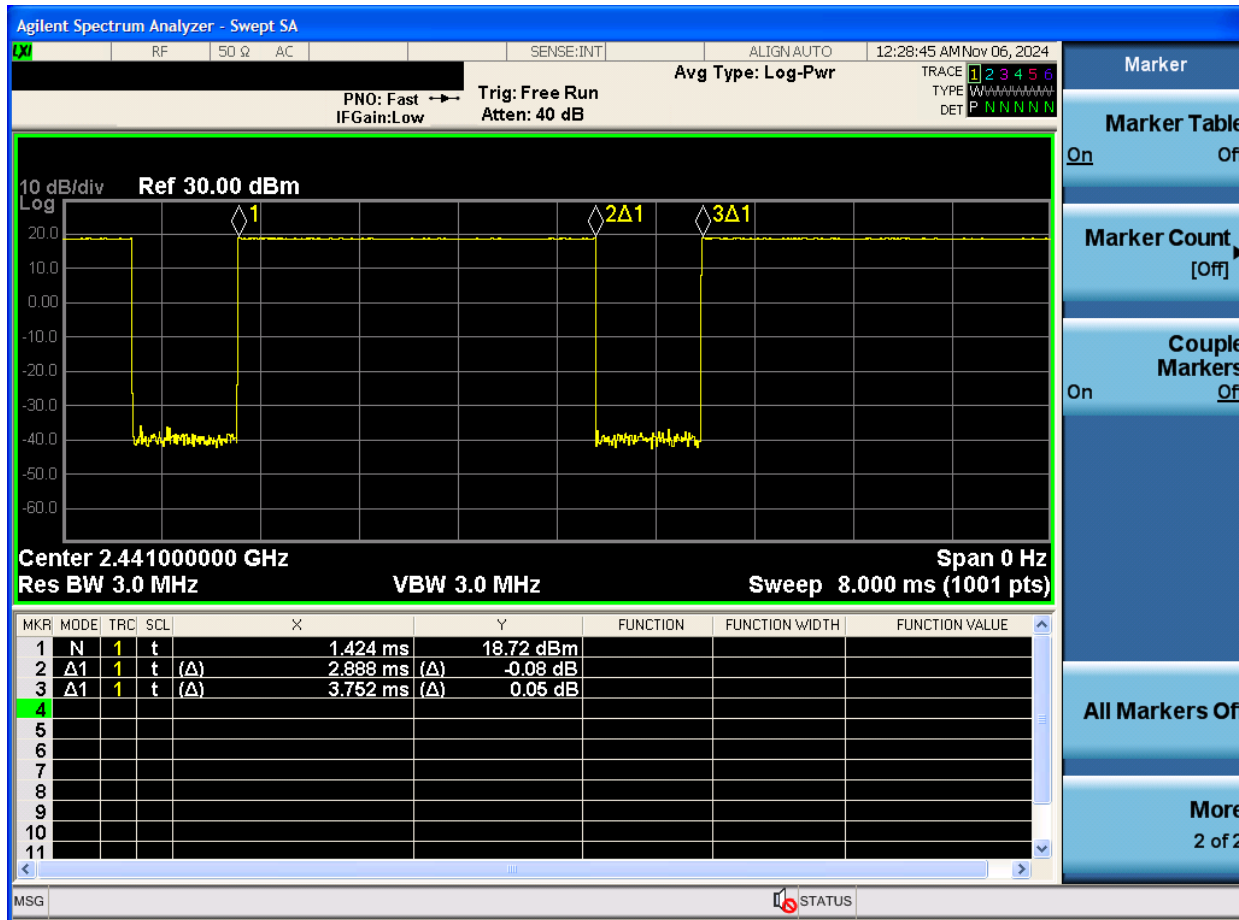


Figure 7-3
Bluetooth BDR Transmission Plot – Antenna WF7b, Variant 2

Equation 7-2
Bluetooth BDR Duty Cycle Calculation – Antenna WF7b, Variant 2

$$\text{Duty Cycle} = \frac{\text{Pulse Width}}{\text{Period}} * 100\% = \frac{2.888\text{ms}}{3.752\text{ms}} * 100\% = 76.97\%$$

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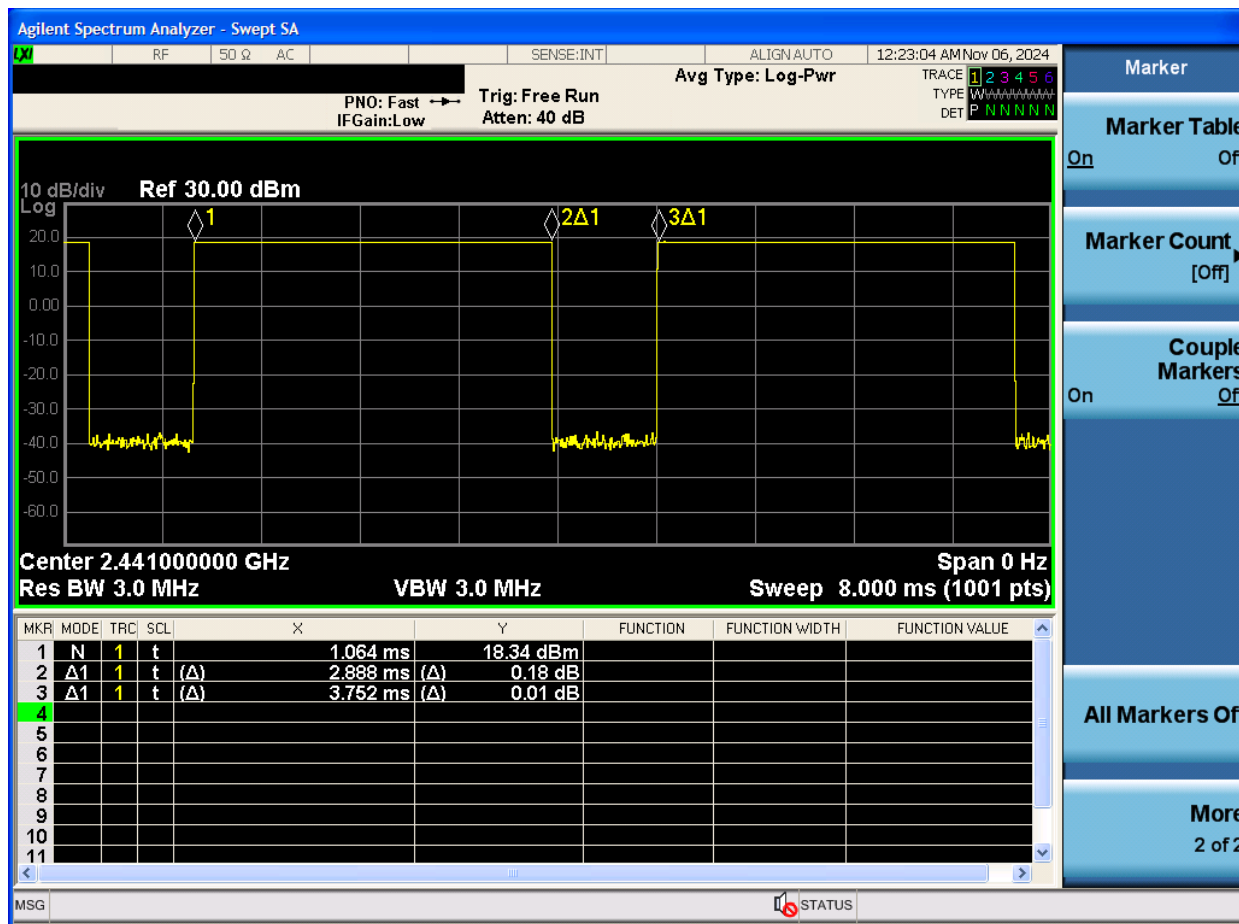


Figure 7-4
Bluetooth BDR Transmission Plot – Antenna WF2b, Variant 1

Equation 7-3
Bluetooth BDR Duty Cycle Calculation – Antenna WF2b, Variant 1

$$Duty\ Cycle = \frac{Pulse\ Width}{Period} * 100\% = \frac{2.888ms}{3.752ms} * 100\% = 76.97\%$$

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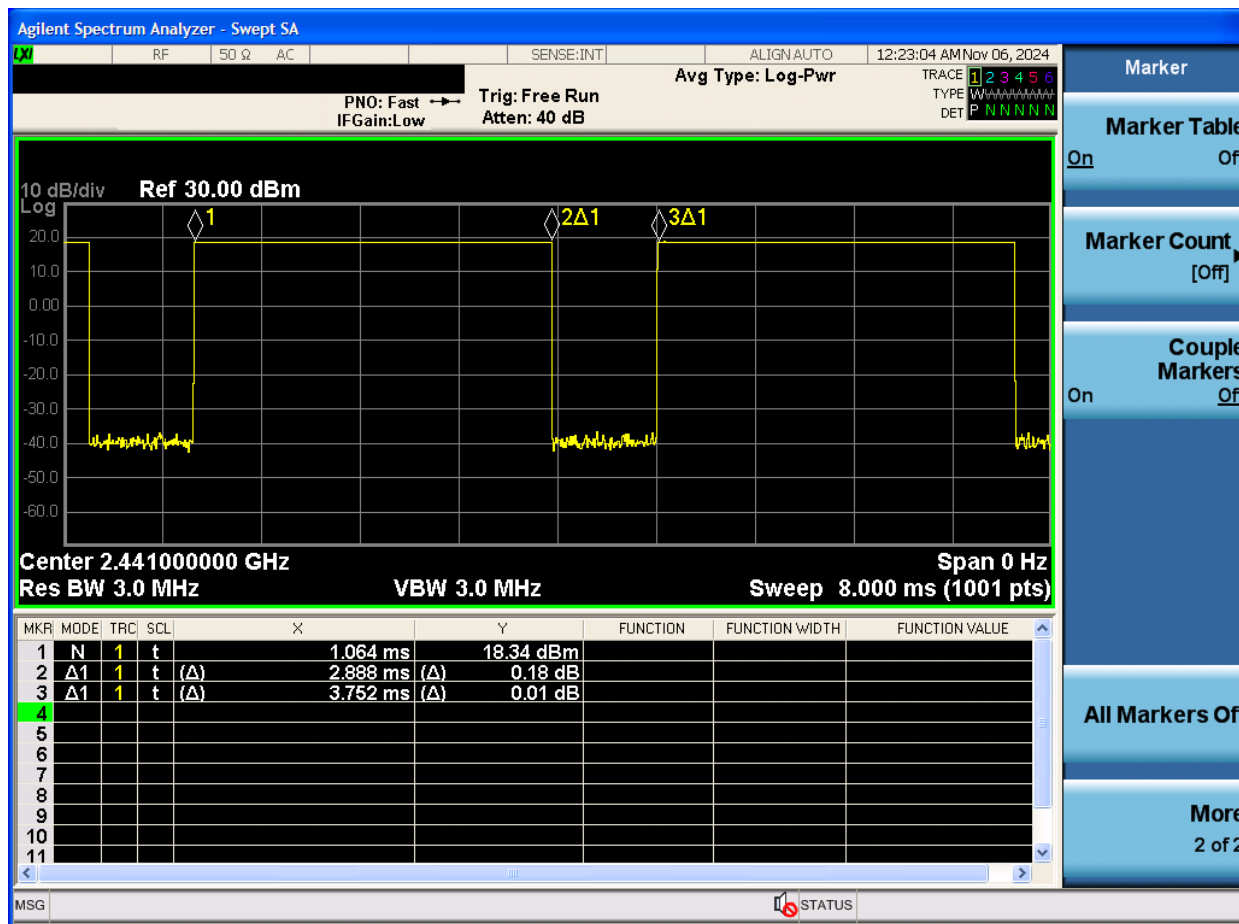


Figure 7-5
Bluetooth Transmission Plot – Antenna WF2b, Variant 2

Equation 7-4
Bluetooth Duty Cycle Calculation – Antenna WF2b, Variant 2

$$Duty\ Cycle = \frac{Pulse\ Width}{Period} * 100\% = \frac{2.888ms}{3.752ms} * 100\% = 76.97\%$$

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7.8 802.15.4 Maximum Conducted Powers

Table 7-25
802.15.4 Average RF Power – Antenna WF7b, Variant 1

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2405	O-QPSK	1.0	11	20.55	113.501
2440	O-QPSK	1.0	18	20.51	112.460
2475	O-QPSK	1.0	25	20.62	115.345

Table 7-26
802.15.4 Average RF Power – Antenna WF7b, Variant 2

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2405	O-QPSK	1.0	11	20.51	112.460
2440	O-QPSK	1.0	18	20.60	114.815
2475	O-QPSK	1.0	25	20.63	115.611

Table 7-27
802.15.4 Average RF Power – Antenna WF2b, Variant 1

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2405	O-QPSK	1.0	11	20.96	124.738
2440	O-QPSK	1.0	18	20.99	125.603
2475	O-QPSK	1.0	25	20.98	125.314

Table 7-28
802.15.4 Average RF Power – Antenna WF2b, Variant 2

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2405	O-QPSK	1.0	11	20.80	120.226
2440	O-QPSK	1.0	18	20.61	115.080
2475	O-QPSK	1.0	25	20.73	118.304

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7.9 802.15.4 Reduced Conducted Powers

Table 7-29

802.15.4 7 dB Reduced Average RF Power – Antenna WF7b, Variant 1

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2405	O-QPSK	1.0	11	14.61	28.907
2440	O-QPSK	1.0	18	14.50	28.184
2475	O-QPSK	1.0	25	14.68	29.376

Table 7-30

802.15.4 7 dB Reduced Average RF Power – Antenna WF7b, Variant 2

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2405	O-QPSK	1.0	11	14.41	27.606
2440	O-QPSK	1.0	18	14.71	29.580
2475	O-QPSK	1.0	25	14.69	29.444

Table 7-31

802.15.4 7 dB Reduced Average RF Power – Antenna WF2b, Variant 1

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2405	O-QPSK	1.0	11	14.78	30.061
2440	O-QPSK	1.0	18	14.60	28.840
2475	O-QPSK	1.0	25	14.48	28.054

Table 7-32

802.15.4 7 dB Reduced Average RF Power – Antenna WF2b, Variant 2

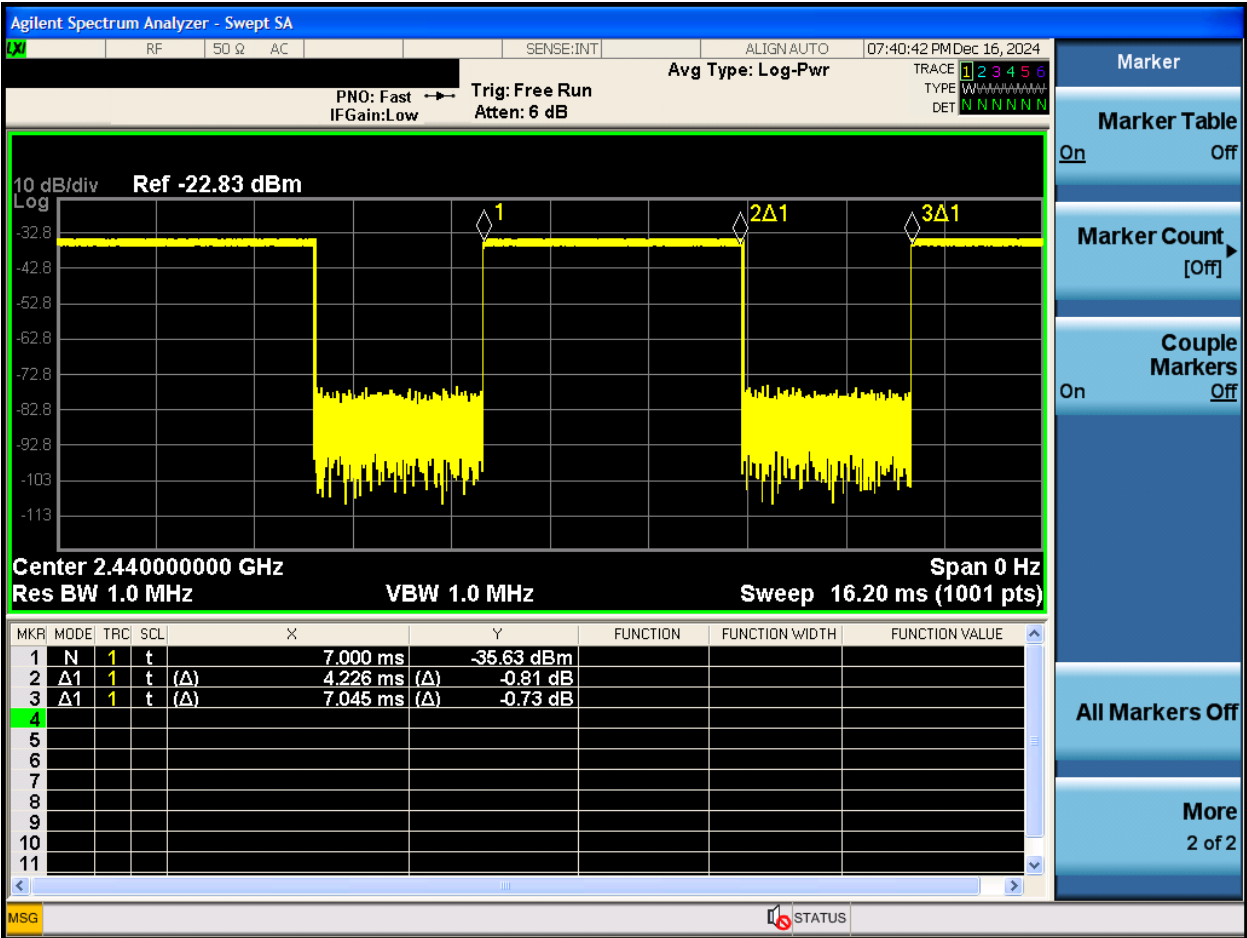
Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2405	O-QPSK	1.0	11	14.57	28.642
2440	O-QPSK	1.0	18	14.36	27.290
2475	O-QPSK	1.0	25	14.44	27.797

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7.10 802.15.4 Duty Cycle Plots



Note: Measured duty cycle as shown above is within the device maximum source-based duty cycle of 60%.

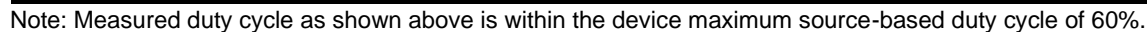
Figure 7-6
802.15.4 Transmission Plot – Antenna WF7b/WF2b, Variant 1

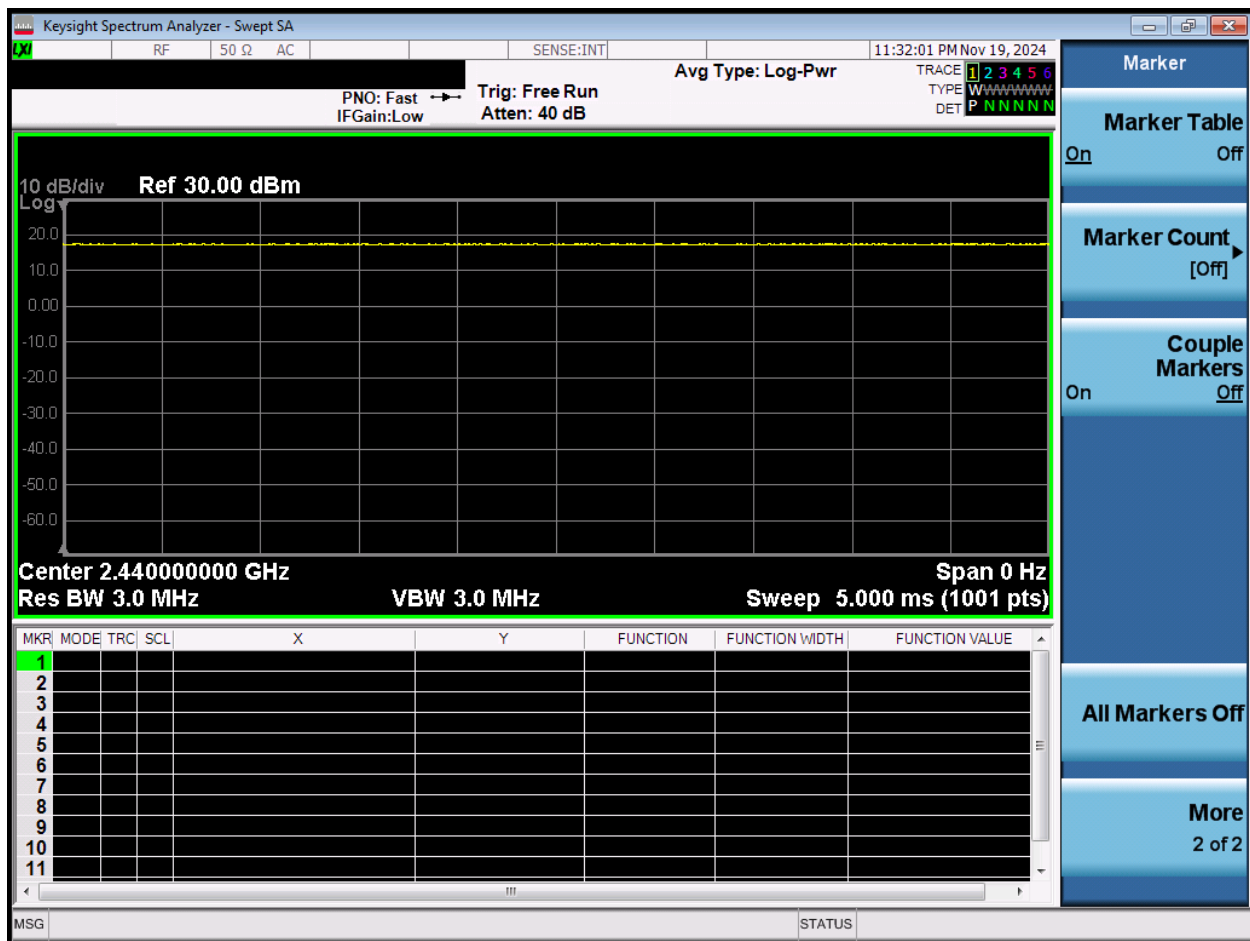
Equation 7-5
802.15.4 Duty Cycle Calculation – Antenna WF7b/WF2b, Variant 1

$$Duty\ Cycle = \frac{Pulse\ Width}{Period} * 100\% = \frac{4.226ms}{7.045ms} * 100\% = 59.99\%$$

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Note: Test mode measured duty cycle for 802.15.4 during SAR measurement.

Figure 7-8
802.15.4 Transmission Plot – Antenna WF7b/WF2b, Variant 1 and 2

Equation 7-7
802.15.4 Duty Cycle Calculation – Antenna WF7b/WF2b, Variant 1 and 2

$$\text{Duty Cycle} = 100\%$$

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7.11 Bluetooth/802.15.4 Power Reduction Verification Summary

Table 7-33
Bluetooth/802.15.4 Power Reduction Verification

Antenna	Mode/Band	Condition (s)	Maximum Scenario Maximum Allowed Tune Up Power [dBm]	Reduced Scenario Maximum Allowed Tune Up Power [dBm]	Maximum Measured Power	Reduced Measured Power	Verdict
					[dBm]	[dBm]	
Ant WF7B	2.4 GHz Bluetooth	5/6 GHz WLAN Ant WF7B ON	19	14.5	18.62	13.92	Yes
	2.4 GHz Bluetooth	5/6 GHz WLAN Ant WF7A ON	19	14.5	18.62	13.92	Yes
	2.4 GHz Bluetooth	5/6 GHz WLAN Ant WF2A ON	19	14.5	18.62	13.92	Yes
	802.15.4	5/6 GHz WLAN Ant WF7A + Ant WF2A ON	21	15.5	19	13	Yes
	802.15.4	5/6 GHz WLAN Ant WF2A + Ant WF7B ON	21	15.5	19.12	13	Yes
Ant WF2B	802.15.4	5/6 GHz WLAN Ant WF7B ON	21	15.5	19.33	14.1	Yes
	802.15.4	5/6 GHz WLAN Ant WF7A ON	21	15.5	19.33	14.1	Yes
	802.15.4	5/6 GHz WLAN Ant WF2A ON	21	15.5	19.33	14.1	Yes
	2.4 GHz Bluetooth	5/6 GHz WLAN Ant WF7A + Ant WF2A ON	19	14.5	17.35	13.17	Yes
	2.4 GHz Bluetooth	5/6 GHz WLAN Ant WF2A + Ant WF7B ON	19	14.5	17.35	13.17	Yes

Maximum power will not exceed minimum of (SAR max cap, Reg max cap). Power reduction backoff for simultaneous transmission is applied to SAR max cap for each antenna. Reduced power level will not exceed minimum of (SAR max cap-power reduction backoff, Reg max cap).

Per manufacturer, 2.4 GHz Bluetooth and 802.15.4 share the same antenna path and reduces with the same power backoff when it transmits simultaneously with cellular and 5/6 GHz WLAN antennas. Therefore, conducted power measurements were measured for both mode/band as shown above and applied condition. All conducted power measurements were verified to be below the maximum allowed.

7.12 Notes for Bluetooth/802.15.4

- The Bluetooth/802.15.4 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. Two device variants are referenced as Variant 1 and Variant 2 in this report.
- Bluetooth/802.15.4 SAR worst case configuration was spotchecked on Variant 1 and Variant 2. The Variant with the highest reported SAR value was evaluated for the remaining Bluetooth/802.15.4 configurations.
- Full power measurements were performed for Variant 1 and Variant 2 per FCC KDB Procedures 248227.

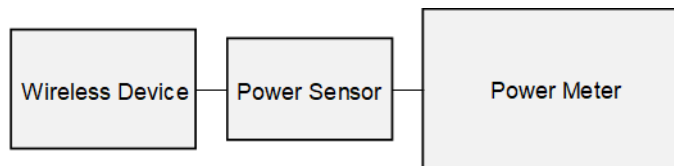


Figure 7-9
Power Measurement Setup

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7.13 NB UNII Maximum Conducted Powers

Table 7-34

NB UNII-1 HDR4 Maximum Average RF Power – Antenna WF7b, Variant 1

Type	Band	Frequency	Channel	Average
HDR-4	U-NII 1	5162	Low	11.12
		5204	Mid	11.28
		5245	High	11.26

Table 7-35

NB UNII-1 HDR4 Maximum Average RF Power – Antenna WF7b, Variant 2

Type	Band	Frequency	Channel	Average
HDR-4	U-NII 1	5162	Low	11.26
		5204	Mid	11.27
		5245	High	11.25

Table 7-36

NB UNII-1 HDR4 Maximum Average RF Power – Antenna WF7a, Variant 1

Type	Band	Frequency	Channel	Average
HDR4	U-NII 1	5162	Low	11.59
		5204	Mid	11.54
		5245	High	11.16

Table 7-37

NB UNII-1 HDR4 Maximum Average RF Power – Antenna WF7a, Variant 2

Type	Band	Frequency	Channel	Average
HDR4	U-NII 1	5162	Low	11.24
		5204	Mid	11.36
		5245	High	11.49

Table 7-38

NB UNII-1 HDR8 Maximum Average RF Power – Antenna WF2a, Variant 1

Type	Band	Frequency	Channel	Average
HDR	U-NII 1	5162	Low	12.13
		5204	Mid	12.31
		5245	High	12.32

Table 7-39

NB UNII-1 HDR8 Maximum Average RF Power – Antenna WF2a, Variant 2

Type	Band	Frequency	Channel	Average
HDR8	U-NII 1	5162	Low	12.40
		5204	Mid	12.34
		5245	High	12.41

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Table 7-40
NB UNII-3 BDR Maximum Average RF Power – Antenna WF7b, Variant 1

Type	Band	Frequency	Channel	Average
BDR	U-NII 3	5733	Low	11.51
		5789	Mid	11.38
		5844	High	11.65

Table 7-41
NB UNII-3 BDR Maximum Average RF Power – Antenna WF7b, Variant 2

Type	Band	Frequency	Channel	Average
BDR	U-NII 3	5733	Low	11.49
		5789	Mid	11.60
		5844	High	11.43

Table 7-42
NB UNII-3 BDR Maximum Average RF Power – Antenna WF7a, Variant 1

Type	Band	Frequency	Channel	Average
BDR	U-NII 3	5733	Low	11.72
		5789	Mid	11.71
		5844	High	11.70

Table 7-43
NB UNII-3 BDR Maximum Average RF Power – Antenna WF7a, Variant 2

Type	Band	Frequency	Channel	Average
BDR	U-NII 3	5733	Low	11.71
		5789	Mid	11.63
		5844	High	11.70

Table 7-44
NB UNII-3 BDR Maximum Average RF Power – Antenna WF2a, Variant 1

Type	Band	Frequency	Channel	Average
BDR	U-NII 3	5733	Low	12.71
		5789	Mid	12.27
		5844	High	12.38

Table 7-45
NB UNII-3 BDR Maximum Average RF Power – Antenna WF2a, Variant 2

Type	Band	Frequency	Channel	Average
BDR	U-NII 3	5733	Low	12.25
		5789	Mid	12.42
		5844	High	12.44

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7.14 NB UNII Reduced Conducted Powers

Table 7-46

NB UNII-1 HDR4 7 dB Reduced Average RF Power – Antenna WF7a, Variant 1

Type	Band	Frequency	Frequency	Average
HDR	U-NII 1	5162	Low	10.02
		5204	Mid	10.30
		5245	High	10.13

Table 7-47

NB UNII-1 HDR4 7 dB Reduced Average RF Power – Antenna WF7a, Variant 2

Type	Band	Frequency	Frequency	Average
HDR4	U-NII 1	5162	Low	10.22
		5204	Mid	10.11
		5245	High	10.15

Table 7-48

NB UNII-1 HDR8 7 dB Reduced Average RF Power – Antenna WF2a, Variant 1

Type	Band	Frequency	Frequency	Average
HDR8	U-NII 1	5162	Low	11.30
		5204	Mid	11.62
		5245	High	11.51

Table 7-49

NB UNII-1 HDR8 7 dB Reduced Average RF Power – Antenna WF2a, Variant 2

Type	Band	Frequency	Frequency	Average
HDR8	U-NII 1	5162	Low	11.20
		5204	Mid	11.29
		5245	High	11.38

Table 7-50

NB UNII-3 BDR 7 dB Reduced Average RF Power – Antenna WF7a, Variant 1

Type	Band	Frequency	Frequency	Average
BDR	U-NII 3	5733	Low	8.43
		5789	Mid	8.46
		5844	High	8.73

Table 7-51

NB UNII-3 BDR 7 dB Reduced Average RF Power – Antenna WF7a, Variant 2

Type	Band	Frequency	Frequency	Average
BDR	U-NII 3	5733	Low	8.25
		5789	Mid	8.39
		5844	High	8.55

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Table 7-52**NB UNII-3 BDR 7 dB Reduced Average RF Power – Antenna WF2a, Variant 1**

Type	Band	Frequency	Frequency	Average
BDR	U-NII 3	5733	Low	8.55
		5789	Mid	8.31
		5844	High	8.47

Table 7-53**NB UNII-3 BDR 7 dB Reduced Average RF Power – Antenna WF2a, Variant 2**

Type	Band	Frequency	Frequency	Average
BDR	U-NII 3	5733	Low	8.68
		5789	Mid	8.61
		5844	High	8.52

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7.15 NB UNII Duty Cycle Plots

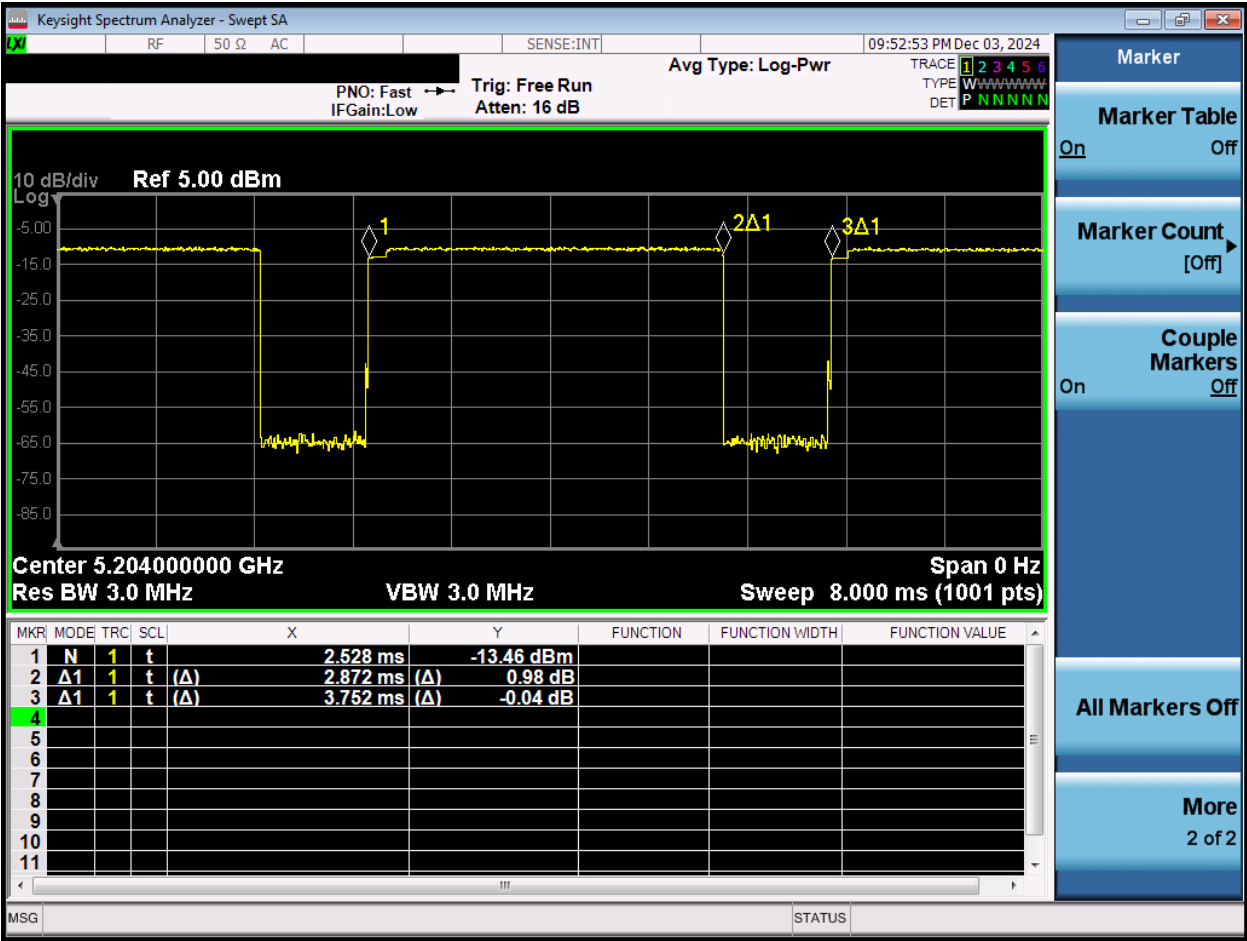


Figure 7-10
NB UNII-1 HDR4 Transmission Plot – Antenna WF7b/WF7a, Variant 1

Equation 7-8
NB UNII Duty Cycle Calculation – Antenna WF7b/WF7a, Variant 1

$$Duty\ Cycle = \frac{Pulse\ Width}{Period} * 100\% = \frac{2.872\ ms}{3.752\ ms} * 100\% = 76.54\%$$

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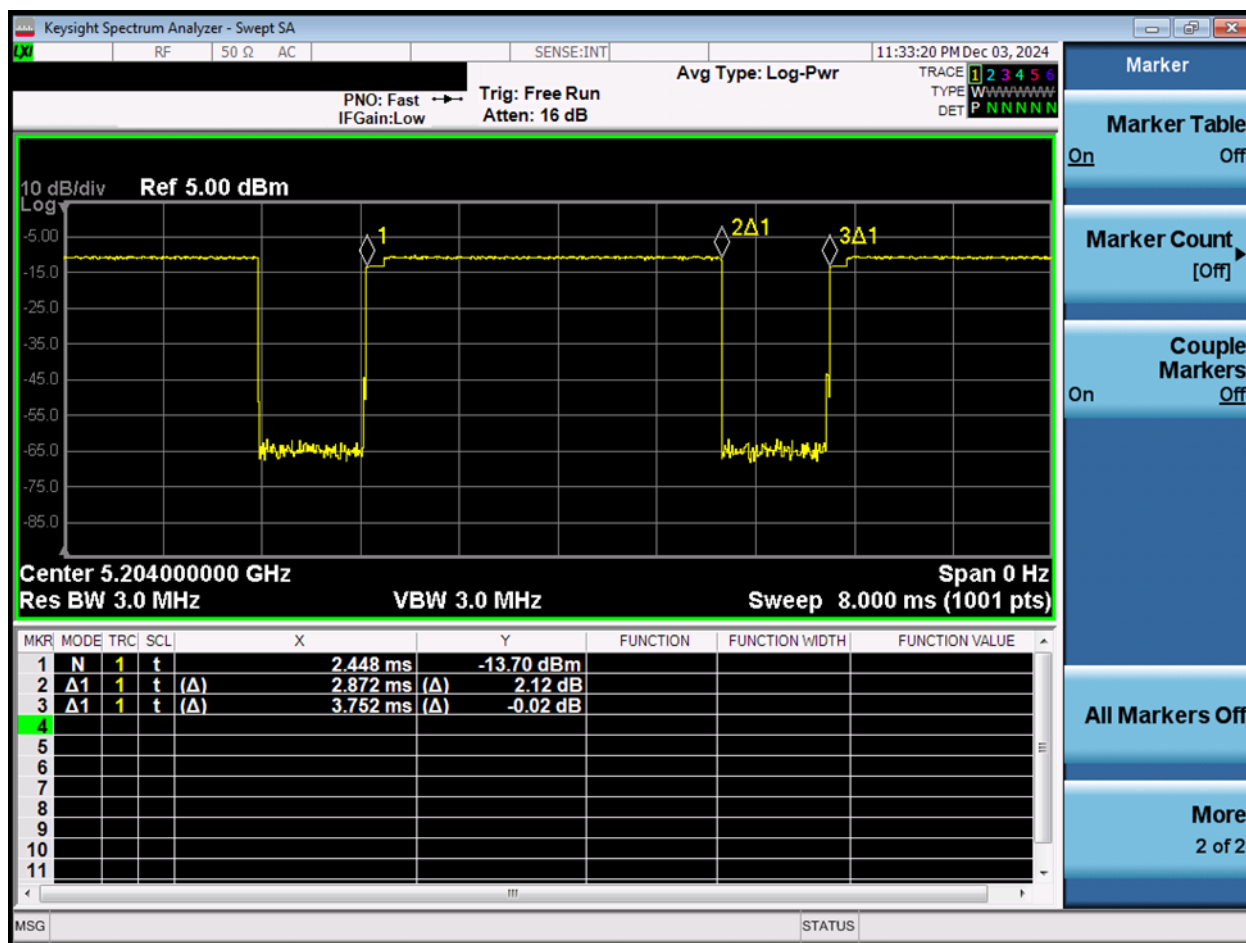


Figure 7-11
NB UNII-1 HDR4 Transmission Plot – Antenna WF7b/WF7a, Variant 2

Equation 7-9
NB UNII-1 HDR4 Duty Cycle Calculation – Antenna WF7b/WF7a, Variant 2

$$\text{Duty Cycle} = \frac{\text{Pulse Width}}{\text{Period}} * 100\% = \frac{2.872 \text{ ms}}{3.752 \text{ ms}} * 100\% = 76.54\%$$

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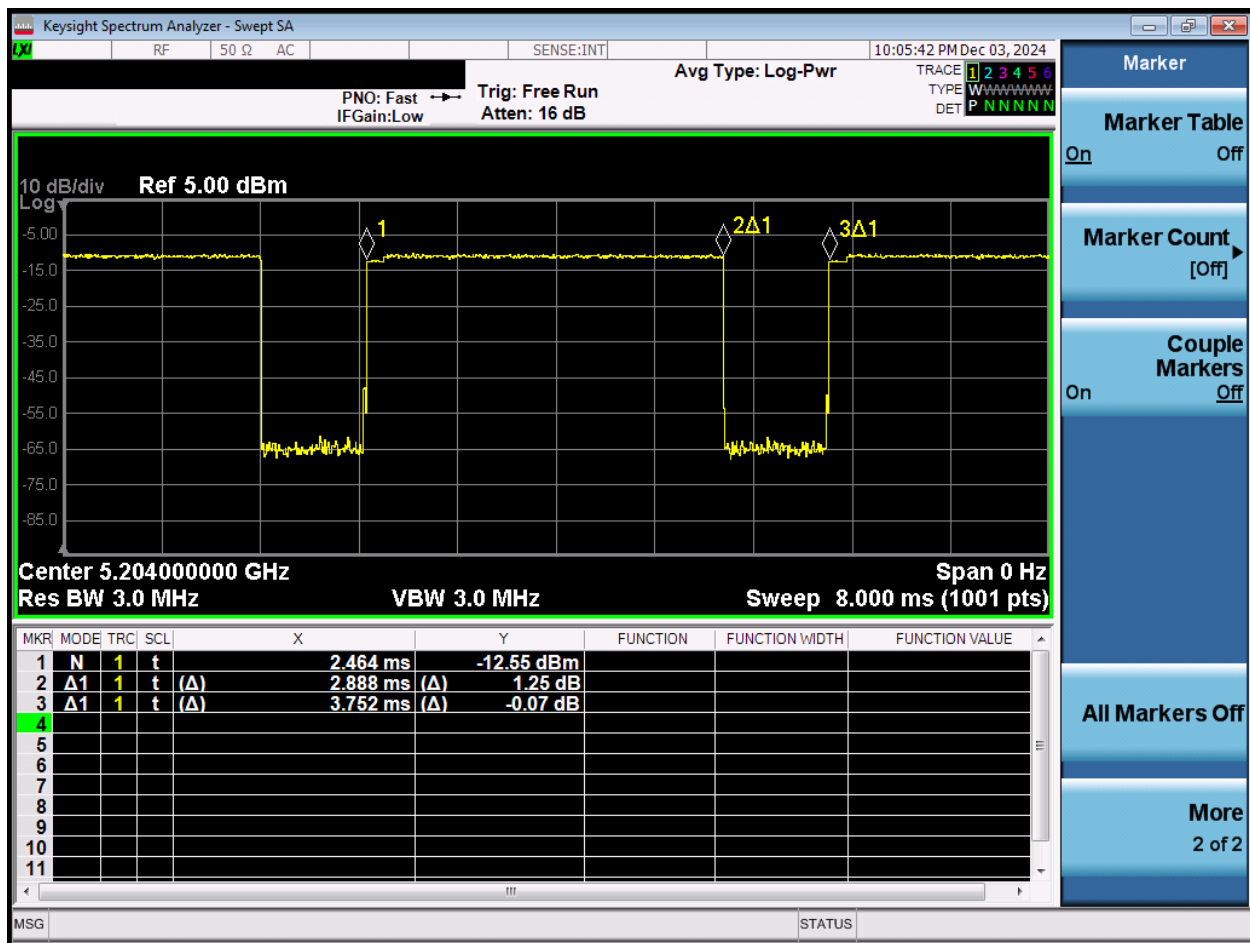


Figure 7-12
NB UNII-1 HDR8 Transmission Plot – Antenna WF2, Variant 1

Equation 7-10
NB UNII-1 HDR8 Duty Cycle Calculation – Antenna WF2a, Variant 1

$$\text{Duty Cycle} = \frac{\text{Pulse Width}}{\text{Period}} * 100\% = \frac{2.888 \text{ ms}}{3.752 \text{ ms}} * 100\% = 76.97\%$$

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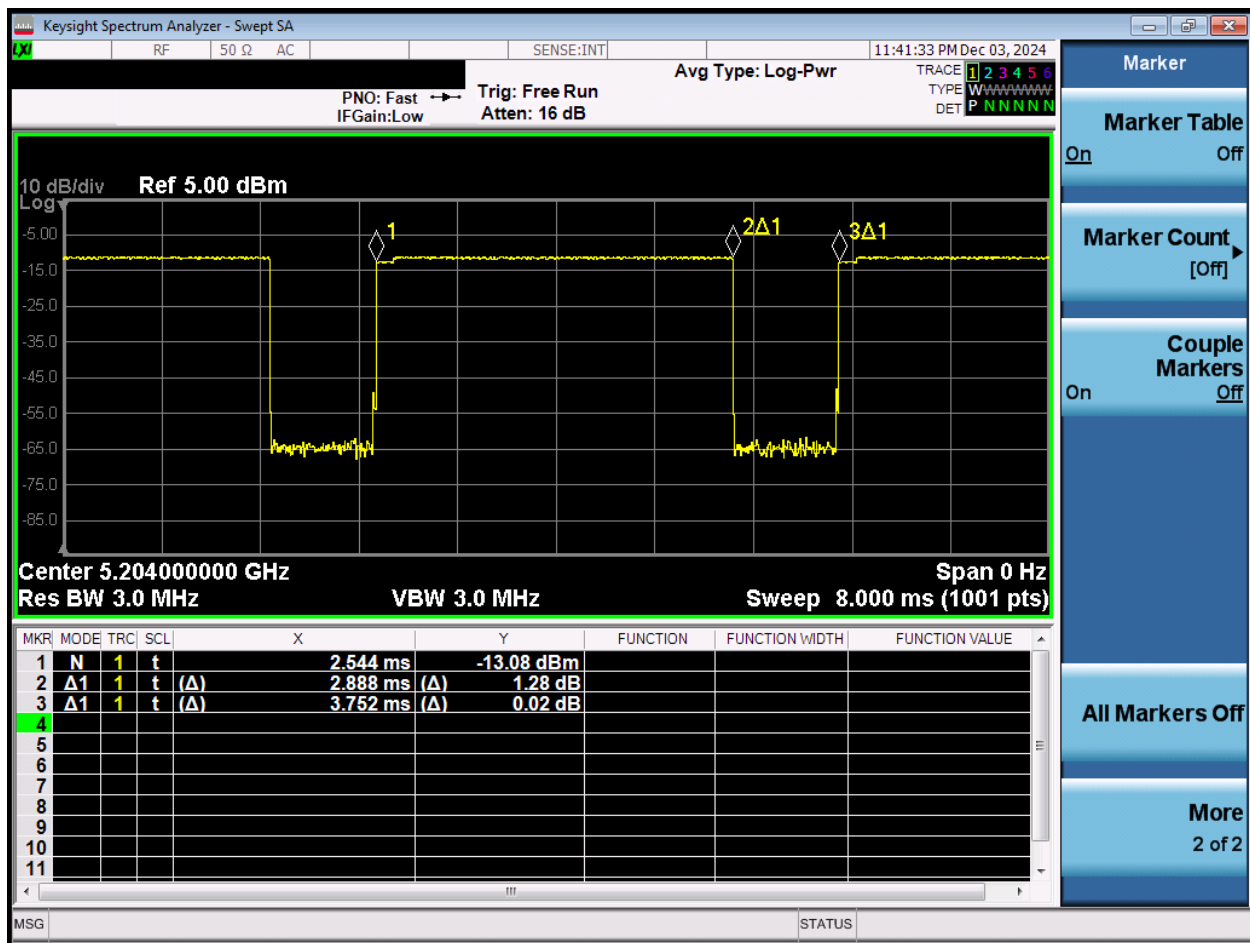


Figure 7-13
NB UNII-1 HDR8 Transmission Plot – Antenna WF2a, Variant 2

Equation 7-11
NB UNII-1 HDR8 Duty Cycle Calculation – Antenna WF2a, Variant 2

$$\text{Duty Cycle} = \frac{\text{Pulse Width}}{\text{Period}} * 100\% = \frac{2.888 \text{ ms}}{3.752 \text{ ms}} * 100\% = 76.97\%$$

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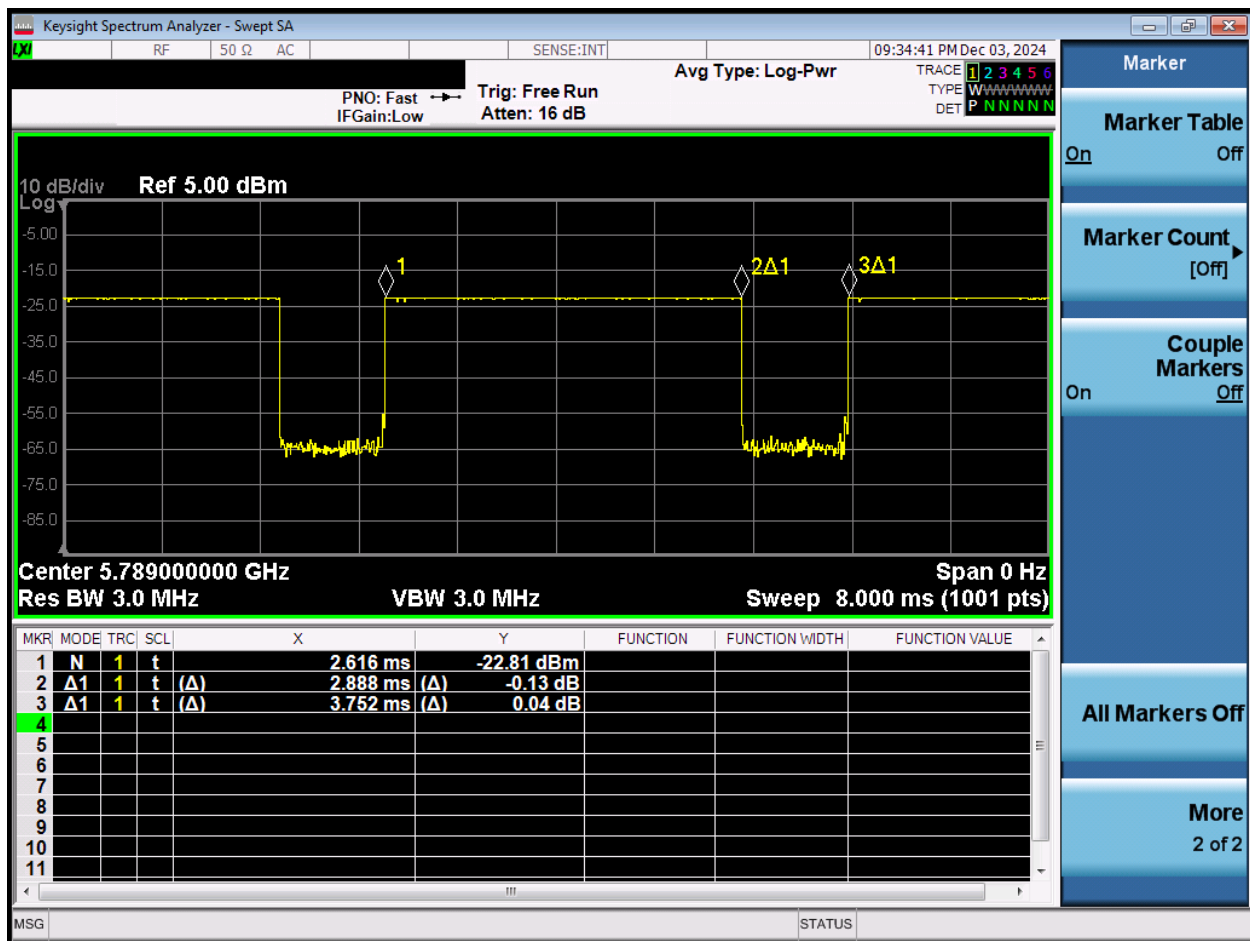


Figure 7-14
NB UNII-3 BDR Transmission Plot – Antenna WF7b/WF7a/WF2a, Variant 1

Equation 7-12
NB UNII-3 BDR Duty Cycle Calculation – Antenna WF7b/WF7a/WF2a, Variant 1

$$\text{Duty Cycle} = \frac{\text{Pulse Width}}{\text{Period}} * 100\% = \frac{2.888 \text{ ms}}{3.752 \text{ ms}} * 100\% = 76.97\%$$

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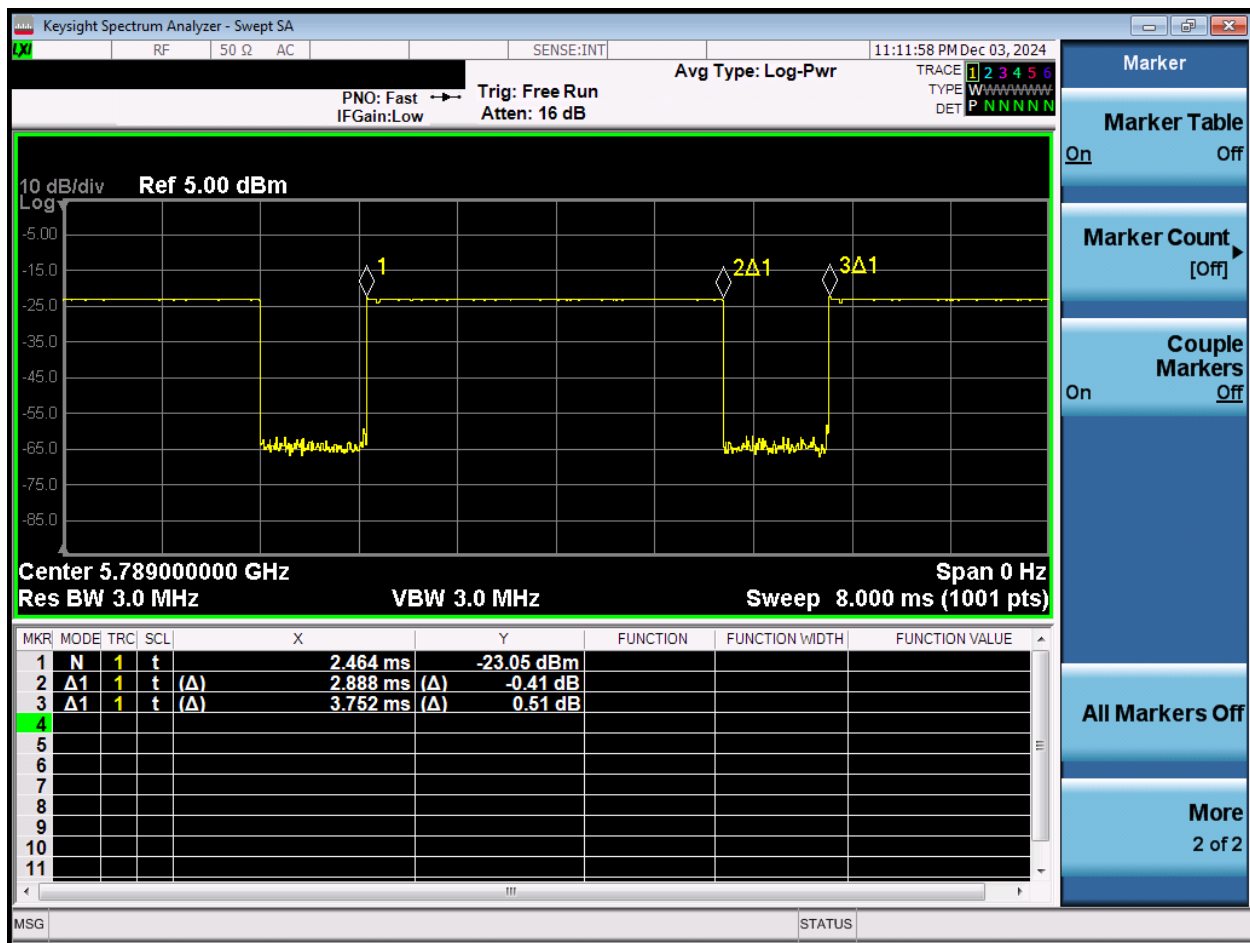


Figure 7-15
NB UNII-3 BDR Transmission Plot – Antenna WF7b/WF7a/WF2a, Variant 2

Equation 7-13
NB UNII-3 BDR Duty Cycle Calculation – Antenna WF7b/WF7a/WF2a, Variant 2

$$\text{Duty Cycle} = \frac{\text{Pulse Width}}{\text{Period}} * 100\% = \frac{2.888 \text{ ms}}{3.752 \text{ ms}} * 100\% = 76.97\%$$

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7.16 NB UNII Power Reduction Verification Summary

Table 7-54
NB UNII Power Reduction Verification

Antenna	Mode/Band	Condition (s)	Maximum Scenario Maximum Allowed Tune Up Power [dBm]	Reduced Scenario Maximum Allowed Tune Up Power [dBm]	Maximum Measured Power	Reduced Measured Power	Verdict
					[dBm]	[dBm]	
Ant WF7A	NB UNII	2.4 GHz WLAN Ant WF7B ON	13	9.5	12.03	8.71	Yes
	NB UNII	2.4 GHz WLAN Ant WF2B ON	13	9.5	12.03	8.71	Yes
	NB UNII	2.4 GHz WLAN Ant WF7B + Ant WF2B ON	13	9.5	12.03	8.71	Yes
Ant WF2A	NB UNII	2.4 GHz WLAN Ant WF7B ON	14	9.5	12.2	8.1	Yes
	NB UNII	2.4 GHz WLAN Ant WF2B ON	14	9.5	12.2	8.1	Yes
	NB UNII	2.4 GHz WLAN Ant WF7B + Ant WF2B ON	14	9.5	12.2	8.1	Yes
Ant WF7B	NB UNII	2.4 GHz WLAN Ant WF7B ON	12.5	12.5	11.92	10.46	Yes
	NB UNII	2.4 GHz WLAN Ant WF2B ON	12.5	12.5	11.92	10.46	Yes
	NB UNII	2.4 GHz WLAN Ant WF7B + Ant WF2B ON	12.5	12.5	11.92	10.46	Yes

Maximum power will not exceed minimum of (SAR max cap, Reg max cap). Power reduction backoff for simultaneous transmission is applied to SAR max cap for each antenna. Reduced power level will not exceed minimum of (SAR max cap-power reduction backoff, Reg max cap).

Conducted powers were measured for each Mode/Band and applied condition. All conducted power measurements were verified to be within tolerance.

7.17 Notes for NB UNII

- The NB UNII chipset in this device is produced by two different suppliers. The electrically identical modules are manufactured with identical mechanical structure to meet the same specifications and functions. Two device variants are referenced as Variant 1 and Variant 2 in this report.
- NB UNII SAR worst case configuration was spotchecked on Variant 1 and Variant 2. The Variant with the highest reported SAR value was evaluated for the remaining NB UNII configurations.
- Full power measurements were performed for Variant 1 and Variant 2 per FCC KDB Procedures 248227.

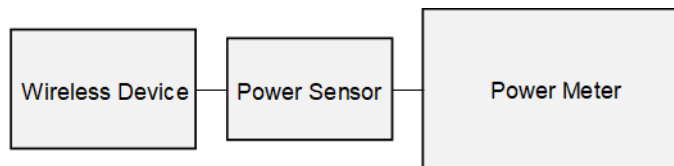


Figure 7-16

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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
12/11/2024	30 Head	24.8	4	0.744	52.836	0.750	55.000	-0.80%	-3.93%
			6	0.744	52.794	0.750	55.000	-0.80%	-4.01%
			12	0.744	52.531	0.750	55.000	-0.80%	-4.49%
			13	0.744	52.495	0.750	55.000	-0.80%	-4.55%
			14	0.745	52.422	0.750	55.000	-0.67%	-4.69%
11/15/2024	2450 Head	19.1	2300	1.692	38.850	1.670	39.500	1.32%	-1.65%
			2310	1.700	38.841	1.679	39.480	1.25%	-1.62%
			2320	1.708	38.833	1.687	39.460	1.24%	-1.59%
			2400	1.768	38.684	1.756	39.289	0.68%	-1.54%
			2450	1.807	38.616	1.800	39.200	0.39%	-1.49%
			2480	1.829	38.546	1.833	39.162	-0.22%	-1.57%
			2500	1.846	38.510	1.855	39.136	-0.49%	-1.60%
			2510	1.855	38.489	1.866	39.123	-0.59%	-1.62%
			2535	1.875	38.459	1.893	39.092	-0.95%	-1.62%
			2550	1.886	38.447	1.909	39.073	-1.20%	-1.60%
			2560	1.893	38.429	1.920	39.060	-1.41%	-1.62%
			2600	1.925	38.331	1.964	39.009	-1.99%	-1.74%
			2650	1.967	38.255	2.018	38.945	-2.53%	-1.77%
			2680	1.987	38.185	2.051	38.907	-3.12%	-1.86%
			2700	2.003	38.137	2.073	38.882	-3.38%	-1.92%
11/23/2024	2450 Head	19.4	2300	1.679	38.250	1.670	39.500	0.54%	-3.16%
			2310	1.686	38.239	1.679	39.480	0.42%	-3.14%
			2320	1.694	38.227	1.687	39.460	0.41%	-3.12%
			2400	1.751	38.113	1.756	39.289	-0.28%	-2.99%
			2450	1.786	38.039	1.800	39.200	-0.78%	-2.96%
			2480	1.809	37.997	1.833	39.162	-1.31%	-2.97%
			2500	1.824	37.969	1.855	39.136	-1.67%	-2.98%
			2510	1.831	37.959	1.866	39.123	-1.88%	-2.98%
			2535	1.851	37.922	1.893	39.092	-2.22%	-2.99%
			2550	1.863	37.901	1.909	39.073	-2.41%	-3.00%
			2560	1.871	37.888	1.920	39.060	-2.55%	-3.00%
			2600	1.903	37.816	1.964	39.009	-3.11%	-3.06%
			2650	1.941	37.743	2.018	38.945	-3.62%	-3.09%
			2680	1.967	37.696	2.051	38.907	-4.10%	-3.11%
			2700	1.982	37.651	2.073	38.882	-4.39%	-3.17%
12/20/2024	2450 Head	19.5	2300	1.719	39.558	1.670	39.500	2.93%	0.15%
			2310	1.728	39.542	1.679	39.480	2.92%	0.16%
			2320	1.736	39.527	1.687	39.460	2.90%	0.17%
			2400	1.795	39.397	1.756	39.289	2.22%	0.27%
			2450	1.836	39.319	1.800	39.200	2.00%	0.30%
			2480	1.859	39.262	1.833	39.162	1.42%	0.26%
			2500	1.874	39.228	1.855	39.136	1.02%	0.24%
			2510	1.881	39.217	1.866	39.123	0.80%	0.24%
			2535	1.901	39.188	1.893	39.092	0.42%	0.25%
			2550	1.914	39.166	1.909	39.073	0.26%	0.24%
			2560	1.922	39.149	1.920	39.060	0.10%	0.23%
			2600	1.954	39.058	1.964	39.009	-0.51%	0.13%
			2650	1.996	38.980	2.018	38.945	-1.09%	0.09%
			2680	2.021	38.930	2.051	38.907	-1.46%	0.06%
			2700	2.037	38.889	2.073	38.882	-1.74%	0.02%

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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
12/10/2024	5200-5800 Head	19.4	5150	4.693	34.726	4.608	36.050	1.84%	-3.67%
			5160	4.707	34.702	4.618	36.040	1.93%	-3.71%
			5170	4.719	34.679	4.629	36.030	1.94%	-3.75%
			5180	4.732	34.664	4.635	36.009	2.09%	-3.74%
			5190	4.748	34.647	4.645	35.998	2.22%	-3.75%
			5200	4.760	34.641	4.655	35.986	2.26%	-3.74%
			5210	4.771	34.638	4.666	35.975	2.25%	-3.72%
			5220	4.777	34.623	4.676	35.963	2.16%	-3.73%
			5240	4.792	34.569	4.696	35.940	2.04%	-3.81%
			5250	4.801	34.557	4.706	35.929	2.02%	-3.82%
			5260	4.808	34.535	4.717	35.917	1.93%	-3.85%
			5270	4.821	34.501	4.727	35.906	1.99%	-3.91%
			5280	4.839	34.468	4.737	35.894	2.15%	-3.97%
			5290	4.854	34.440	4.748	35.883	2.23%	-4.02%
			5300	4.869	34.425	4.758	35.871	2.33%	-4.03%
			5310	4.889	34.415	4.768	35.860	2.54%	-4.03%
			5320	4.905	34.410	4.778	35.849	2.66%	-4.01%
			5500	5.099	34.124	4.963	35.643	2.74%	-4.26%
			5510	5.106	34.117	4.973	35.632	2.67%	-4.25%
			5520	5.114	34.110	4.983	35.620	2.63%	-4.24%
			5530	5.124	34.081	4.994	35.609	2.60%	-4.29%
			5540	5.136	34.062	5.004	35.597	2.64%	-4.31%
			5550	5.147	34.053	5.014	35.586	2.65%	-4.31%
			5560	5.157	34.051	5.024	35.574	2.65%	-4.28%
			5580	5.179	34.039	5.045	35.551	2.66%	-4.25%
			5600	5.212	34.001	5.065	35.529	2.90%	-4.30%
			5610	5.223	33.996	5.076	35.518	2.90%	-4.29%
			5640	5.237	33.980	5.106	35.483	2.57%	-4.24%
			5660	5.248	33.939	5.127	35.460	2.36%	-4.29%
			5670	5.255	33.907	5.137	35.449	2.30%	-4.35%
			5680	5.264	33.883	5.147	35.437	2.27%	-4.39%
			5690	5.278	33.853	5.158	35.426	2.33%	-4.44%
			5700	5.298	33.831	5.168	35.414	2.52%	-4.47%
			5710	5.316	33.813	5.178	35.403	2.67%	-4.49%
			5720	5.331	33.800	5.188	35.391	2.76%	-4.50%
			5745	5.360	33.773	5.214	35.363	2.80%	-4.50%
			5750	5.364	33.770	5.219	35.357	2.78%	-4.49%
			5755	5.368	33.768	5.224	35.351	2.76%	-4.48%
			5765	5.372	33.764	5.234	35.340	2.64%	-4.46%
			5775	5.375	33.761	5.245	35.329	2.48%	-4.44%
			5785	5.380	33.751	5.255	35.317	2.38%	-4.43%
			5795	5.387	33.727	5.265	35.305	2.32%	-4.47%
			5800	5.389	33.711	5.270	35.300	2.26%	-4.50%
			5805	5.392	33.694	5.275	35.294	2.22%	-4.53%
			5825	5.412	33.640	5.296	35.271	2.19%	-4.62%
			5835	5.426	33.630	5.305	35.230	2.28%	-4.54%
			5845	5.436	33.626	5.315	35.210	2.28%	-4.50%
			5850	5.442	33.618	5.320	35.200	2.29%	-4.49%
			5855	5.449	33.611	5.325	35.197	2.33%	-4.51%
			5865	5.462	33.587	5.336	35.190	2.36%	-4.56%
			5875	5.477	33.559	5.347	35.183	2.43%	-4.62%
			5885	5.488	33.536	5.357	35.177	2.45%	-4.66%
			5905	5.503	33.493	5.379	35.163	2.31%	-4.75%

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12/14/2024	5200-5800 Head	19.0	5150	4.382	35.027	4.608	36.050	-4.90%	-2.84%
			5160	4.393	35.003	4.618	36.040	-4.87%	-2.88%
			5170	4.407	34.977	4.629	36.030	-4.80%	-2.92%
			5180	4.421	34.966	4.635	36.009	-4.62%	-2.90%
			5190	4.434	34.948	4.645	35.998	-4.54%	-2.92%
			5200	4.443	34.933	4.655	35.986	-4.55%	-2.93%
			5210	4.450	34.928	4.666	35.975	-4.63%	-2.91%
			5220	4.457	34.920	4.676	35.963	-4.68%	-2.90%
			5240	4.476	34.871	4.696	35.940	-4.68%	-2.97%
			5250	4.485	34.851	4.706	35.929	-4.70%	-3.00%
			5260	4.493	34.833	4.717	35.917	-4.75%	-3.02%
			5270	4.504	34.810	4.727	35.906	-4.72%	-3.05%
			5280	4.521	34.786	4.737	35.894	-4.56%	-3.09%
			5290	4.538	34.768	4.748	35.883	-4.42%	-3.11%
			5300	4.548	34.753	4.758	35.871	-4.41%	-3.12%
			5310	4.560	34.746	4.768	35.860	-4.36%	-3.11%
			5320	4.569	34.735	4.778	35.849	-4.37%	-3.11%
			5500	4.757	34.384	4.963	35.643	-4.15%	-3.53%
			5510	4.768	34.376	4.973	35.632	-4.12%	-3.52%
			5520	4.782	34.364	4.983	35.620	-4.03%	-3.53%
			5530	4.795	34.346	4.994	35.609	-3.98%	-3.55%
			5540	4.805	34.336	5.004	35.597	-3.98%	-3.54%
			5550	4.809	34.330	5.014	35.586	-4.09%	-3.53%
			5560	4.813	34.316	5.024	35.574	-4.20%	-3.54%
			5580	4.833	34.275	5.045	35.551	-4.20%	-3.59%
			5600	4.869	34.211	5.065	35.529	-3.87%	-3.71%
			5610	4.887	34.192	5.076	35.518	-3.72%	-3.73%
			5620	4.896	34.183	5.086	35.506	-3.74%	-3.73%
			5640	4.924	34.151	5.106	35.483	-3.56%	-3.75%
			5660	4.946	34.128	5.127	35.460	-3.53%	-3.76%
			5670	4.951	34.117	5.137	35.449	-3.62%	-3.76%
			5680	4.954	34.097	5.147	35.437	-3.75%	-3.78%
			5690	4.965	34.062	5.158	35.426	-3.74%	-3.85%
			5700	4.979	34.038	5.168	35.414	-3.66%	-3.89%
			5710	4.997	34.015	5.178	35.403	-3.50%	-3.92%
			5720	5.015	34.004	5.188	35.391	-3.33%	-3.92%
			5745	5.048	33.965	5.214	35.363	-3.18%	-3.95%
			5750	5.054	33.958	5.219	35.357	-3.16%	-3.96%
			5755	5.060	33.953	5.224	35.351	-3.14%	-3.95%
			5765	5.069	33.940	5.234	35.340	-3.15%	-3.96%
			5775	5.072	33.930	5.245	35.329	-3.30%	-3.96%
			5785	5.074	33.909	5.255	35.317	-3.44%	-3.99%
			5795	5.084	33.879	5.265	35.305	-3.44%	-4.04%
			5800	5.090	33.865	5.270	35.300	-3.42%	-4.07%
			5805	5.097	33.849	5.275	35.294	-3.37%	-4.09%
			5825	5.128	33.813	5.296	35.271	-3.17%	-4.13%
			5835	5.143	33.802	5.305	35.230	-3.05%	-4.05%
			5845	5.155	33.794	5.315	35.210	-3.01%	-4.02%
			5850	5.160	33.793	5.320	35.200	-3.01%	-4.00%
			5855	5.165	33.792	5.325	35.197	-3.00%	-3.99%
			5865	5.178	33.775	5.336	35.190	-2.96%	-4.02%
			5875	5.192	33.749	5.347	35.183	-2.90%	-4.08%
			5885	5.200	33.727	5.357	35.177	-2.93%	-4.12%
			5905	5.217	33.687	5.379	35.163	-3.01%	-4.20%

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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
11/17/2024	6000 Head	19.2	5935	5.291	35.108	5.411	35.143	-2.22%	-0.10%
			5970	5.324	35.035	5.448	35.120	-2.28%	-0.24%
			5985	5.348	35.007	5.464	35.110	-2.12%	-0.29%
			6000	5.375	34.978	5.480	35.100	-1.92%	-0.35%
			6025	5.412	34.948	5.510	35.070	-1.78%	-0.35%
			6065	5.453	34.882	5.557	35.022	-1.87%	-0.40%
			6075	5.463	34.860	5.569	35.010	-1.90%	-0.43%
			6085	5.475	34.837	5.580	34.998	-1.88%	-0.46%
			6185	5.594	34.645	5.698	34.878	-1.83%	-0.67%
			6275	5.712	34.469	5.805	34.770	-1.60%	-0.87%
			6285	5.718	34.455	5.816	34.758	-1.69%	-0.87%
			6305	5.742	34.423	5.840	34.734	-1.68%	-0.90%
			6345	5.798	34.368	5.887	34.686	-1.51%	-0.92%
			6475	5.948	34.142	6.041	34.530	-1.54%	-1.12%
			6485	5.956	34.117	6.052	34.518	-1.59%	-1.16%
			6500	5.970	34.075	6.070	34.500	-1.65%	-1.23%
			6505	5.976	34.062	6.076	34.494	-1.65%	-1.25%
			6545	6.035	34.001	6.122	34.446	-1.42%	-1.29%
			6665	6.195	33.791	6.265	34.302	-1.12%	-1.49%
			6675	6.200	33.790	6.273	34.290	-1.16%	-1.46%
			6685	6.205	33.774	6.285	34.278	-1.27%	-1.47%
			6715	6.239	33.700	6.319	34.242	-1.27%	-1.58%
			6785	6.319	33.612	6.400	34.158	-1.27%	-1.60%
			6825	6.367	33.506	6.447	34.110	-1.24%	-1.77%
			6985	6.569	33.247	6.633	33.918	-0.96%	-1.98%
			7025	6.590	33.219	6.680	33.870	-1.35%	-1.92%
			7500	7.194	32.307	7.240	33.300	-0.64%	-2.98%
			7980	7.746	31.599	7.816	32.724	-0.90%	-3.44%

The above measured tissue parameters were used in the 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 $\pm 10\%$ 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

System Verification TARGET & MEASURED														Measured 4cm2 APD (W/m2)	1W Target 4cm2 APD (W/m2)	1W Normalized 4cm2 APD (W/m2)	Deviation 4cm2 APD (%)
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 (%)				
AM14	13	HEAD	12/11/2024	21.9	24.0	1.00	1004	7308	534	0.566	0.575	0.566	-1.57%				
AM6	2450	HEAD	11/15/2024	21.4	20.5	0.10	750	7639	1403	5.350	52.600	53.500	1.71%				
AM6	2450	HEAD	11/23/2024	21.6	20.5	0.10	750	7639	1403	5.240	52.600	52.400	-0.38%				
AM1	2450	HEAD	12/20/2024	20.4	20.3	0.10	750	7416	701	5.490	52.600	54.900	4.37%				
AM8	5250	HEAD	12/10/2024	20.1	19.0	0.05	1066	7427	467	4.190	77.900	83.800	7.57%				
AM9	5250	HEAD	12/14/2024	19.1	19.0	0.05	1066	7782	1646	3.760	77.900	75.200	-3.47%				
AM8	5600	HEAD	12/10/2024	20.1	19.0	0.05	1066	7427	467	3.900	81.800	78.000	-4.65%				
AM9	5600	HEAD	12/14/2024	19.1	19.0	0.05	1066	7782	1646	4.000	81.800	80.000	-2.20%				
AM8	5750	HEAD	12/10/2024	20.1	19.0	0.05	1066	7427	467	3.770	80.700	75.400	-6.57%				
AM9	5750	HEAD	12/14/2024	19.1	19.0	0.05	1066	7782	1646	3.860	80.700	77.200	-4.34%				
AM8	5850	HEAD	12/10/2024	20.1	19.0	0.05	1066	7427	467	3.890	77.400	77.800	0.52%				
AM9	5850	HEAD	12/14/2024	19.1	19.0	0.05	1066	7782	1646	3.830	77.400	76.600	-1.03%				
AM2	6500	HEAD	11/17/2024	21.2	20.1	0.025	1019	3949	1684	7.810	300.000	312.400	4.13%	34.7	1340	1388	3.58%

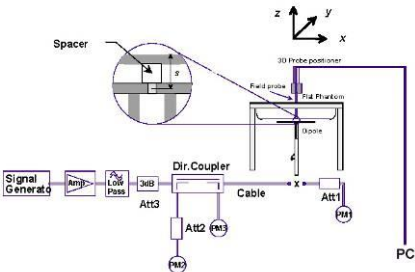


Figure 8-1
System Verification Setup Diagram



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.

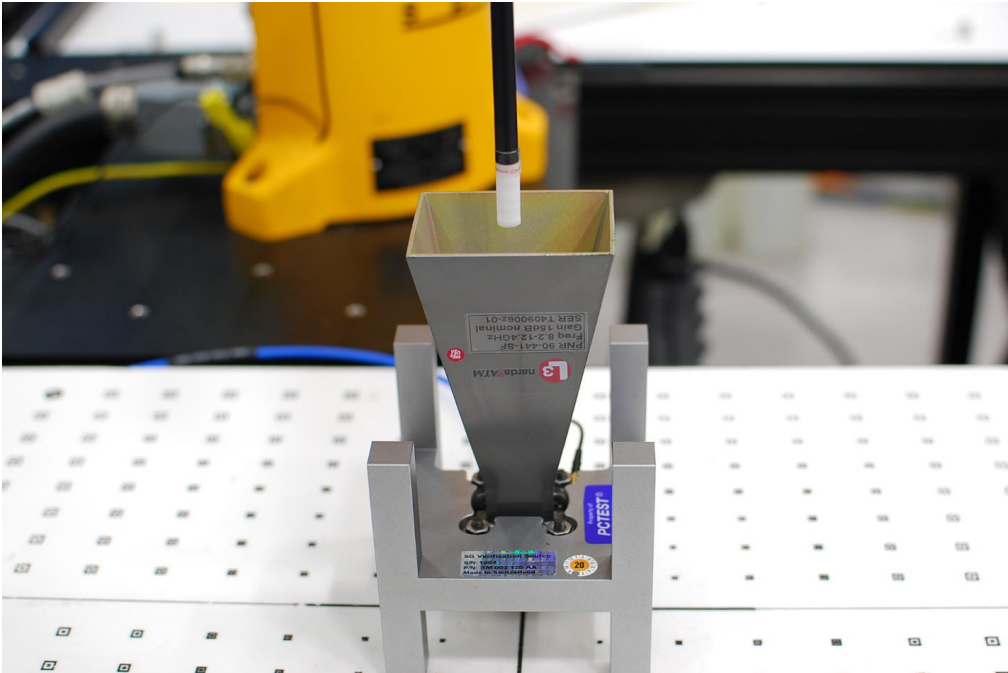


Figure 8-3
System Verification Setup Photo

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/m² over 4 cm²)		Deviation (dB)	Total psPD (W/m² over 4 cm²)		Deviation (dB)
							Measured	Target		Measured	Target	
AM5	10	11/09/2024	1004	1333	9487	93.3	59.80	56.70	0.23	60.10	56.90	0.24

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 WF7b

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]	Add'l Info	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	WF7b	LP409	99.44	-0.01	2437	6	1	20.75	20.25	Back	0	V1	0.230	0.111	1.122	1.006	0.248	0.125	0.155	
Body	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	WF7b	LP429	99.44	0.01	2412	1	1	20.75	20.34	Top	0	V1	0.882	0.400	1.125	1.006	0.988	0.453	0.624	
Body	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	WF7b	7W7G7	99.44	-0.06	2437	6	1	20.75	20.24	Top	0	V2	0.908	0.403	1.125	1.006	1.028	0.456	0.643	
Body	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	WF7b	LP429	99.44	-0.01	2437	6	1	20.75	20.25	Top	0	V1	0.950	0.479	1.122	1.006	1.085	0.534	0.741	A1
Body	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	WF7b	LP429	99.44	-0.11	2462	11	1	20.75	20.21	Top	0	V1	0.948	0.427	1.127	1.006	1.075	0.484	0.672	
Body	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	WF7b	LP429	99.44	0.08	2437	6	1	20.75	20.25	Bottom	0	V1	0.030	0.014	1.122	1.006	0.034	0.016	0.021	
Body	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	WF7b	LP409	99.44	0.07	2437	6	1	20.75	20.25	Right	0	V1	0.002	0.000	1.122	1.006	0.002	0.000	0.001	
Body	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	WF7b	LP429	99.44	0.15	2437	6	1	20.75	20.25	Left	0	V1	0.083	0.043	1.122	1.006	0.094	0.049	0.059	
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 9-2 Antenna WF2b

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]	Add'l Info	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	WF2b	3NK97	99.44	-0.07	2462	11	1	20.25	19.58	Back	0	V2	0.198	0.098	1.167	1.006	0.232	0.115	0.145	
Body	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	WF2b	3NK97	99.44	-0.05	2462	11	1	20.25	19.58	Top	0	V2	0.018	0.008	1.167	1.006	0.021	0.009	0.013	
Body	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	WF2b	3NK97	99.44	-0.02	2412	1	1	20.25	19.45	Bottom	0	V2	0.889	0.426	1.202	1.006	1.075	0.515	0.672	
Body	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	WF2b	3NK97	99.44	-0.07	2437	6	1	20.25	19.57	Bottom	0	V2	0.919	0.435	1.169	1.006	1.081	0.512	0.676	
Body	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	WF2b	3NK97	99.44	-0.02	2462	11	1	20.25	19.58	Bottom	0	V2	0.877	0.416	1.167	1.006	1.030	0.488	0.644	
Body	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	WF2b	3NK97	99.44	-0.01	2412	1	1	20.25	19.45	Right	0	V2	0.940	0.430	1.202	1.006	1.144	0.520	0.715	
Body	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	WF2b	C4TK6	99.44	-0.01	2437	6	1	20.25	19.45	Right	0	V1	0.928	0.418	1.153	1.006	1.076	0.485	0.673	
Body	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	WF2b	3NK97	99.44	-0.08	2437	6	1	20.25	19.57	Right	0	V2	0.992	0.447	1.169	1.006	1.167	0.526	0.729	
Body	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	WF2b	3NK97	99.44	-0.01	2462	11	1	20.25	19.58	Right	0	V2	0.918	0.412	1.167	1.006	1.078	0.484	0.674	
Body	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	WF2b	3NK97	99.44	0.02	2462	11	1	20.25	19.58	Left	0	V2	0.013	0.005	1.167	1.006	0.015	0.006	0.009	
ANSI/IEEE C95.1.1992 - SAFETY LIMIT																Body							
Spatial Peak																1.6 W/kg (mW/g)							
Uncontrolled Exposure/General Population																averaged over 1 gram							

9.2 5 GHz WIFI SISO Standalone SAR

Table 9-3 Antenna WF7b U-NII-2A

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]	Add'l Info	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	WF7b	WYFW3	97.68	0.01	5270	54	U-NII-2A	13.5	19.50	18.57	Back	0	V1	0.057	0.017	1.239	1.024	0.072	0.022	0.045	
Body	5 GHz WiFi/ IEEE 802.11n	40	OFDM	WF7b	7M9W1	97.68	0.03	5270	54	U-NII-2A	13.5	19.50	18.55	Top	0	V2	0.511	0.139	1.245	1.024	0.651	0.177	0.407	
Body	5 GHz WiFi/ IEEE 802.11n	40	OFDM	WF7b	WYFW3	97.68	0.00	5270	54	U-NII-2A	13.5	19.50	18.57	Top	0	V1	0.512	0.142	1.239	1.024	0.650	0.180	0.406	
Body	5 GHz WiFi/ IEEE 802.11n	40	OFDM	WF7b	WYFW3	97.68	0.06	5270	54	U-NII-2A	13.5	19.50	18.57	Bottom	0	V1	0.006	0.000	1.239	1.024	0.008	0.000	0.005	
Body	5 GHz WiFi/ IEEE 802.11n	40	OFDM	WF7b	WYFW3	97.68	0.01	5270	54	U-NII-2A	13.5	19.50	18.57	Right	0	V1	0.000	0.000	1.239	1.024	0.000	0.000	0.000	
Body	5 GHz WiFi/ IEEE 802.11n	40	OFDM	WF7b	WYFW3	97.68	0.05	5270	54	U-NII-2A	13.5	19.50	18.57	Left	0	V1	0.088	0.028	1.239	1.024	0.112	0.036	0.070	
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 9-4 Antenna WF7b U-NII-2C

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]	Add'l Info	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	WF7b	WYFW3	95.18	-0.12	5610	122	U-NII-2C	29.3	19.50	17.83	Back	0	V1	0.070	0.023	1.469	1.051	0.108	0.036	0.068	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	WF7b	WYFW3	95.18	-0.02	5530	106	U-NII-2C	29.3	14.50	13.48	Top	0	V1	0.252	0.076	1.265	1.051	0.335	0.101	0.209	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	WF7b	WYFW3	95.18	-0.07	5610	122	U-NII-2C	29.3	19.50	17.83	Top	0	V1	0.759	0.233	1.469	1.051	1.172	0.360	0.733	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	WF7b	7M9W1	95.18	0.05	5610	122	U-NII-2C	29.3	19.50	17.83	Top	0	V2	0.491	0.213	1.469	1.051	1.067	0.378	0.667	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	WF7b	WYFW3	95.18	-0.14	5600	138	U-NII-2C	29.3	19.50	17.76	Top	0	V1	0.715	0.223	1.491	1.051	1.127	0.360	0.701	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	WF7b	WYFW3	95.18	0.02	5610	122	U-NII-2C	29.3	19.50	17.83	Bottom	0	V1	0.015	0.004	1.469	1.051	0.023	0.006	0.014	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	WF7b	WYFW3	95.18	0.18	5610	122	U-NII-2C	29.3	19.50	17.83	Right	0	V1	0.000	0.000	1.469	1.051	0.000	0.000	0.000	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	WF7b	WYFW3	95.18	0.05	5610	122	U-NII-2C	29.3	19.50	17.83	Left	0	V1	0.548	0.050	1.469	1.051	0.229	0.077	0.142	
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 9-5 Antenna WF7b U-NII-3

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]	Add'l Info	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	WF7b	WYFW3	97.68	0.03	5755	151	U-NII-3	13.5	19.50	18.40	Back	0	V1	0.081	0.026	1.288	1.024	0.107	0.034	0.067	
Body	5 GHz WiFi / IEEE 802.11n	40	OFDM	WF7b	WYFW3	97.68	0.03	5755	151	U-NII-3	13.5	19.50	18.40	Top	0	V1	0.835	0.246	1.288	1.024	1.101	0.324	0.688	
Body	5 GHz WiFi / IEEE 802.11n	40	OFDM	WF7b	7M9W1	97.68	-0.04	5755	151	U-NII-3	13.5	19.50	18.39	Top	0	V2	0.750	0.220	1.291	1.024	0.991	0.291	0.615	
Body	5 GHz WiFi / IEEE 802.11n	40	OFDM	WF7b	WYFW3	97.68	-0.05	5755	151	U-NII-3	13.5	19.50	18.40	Top	0	V1	0.749	0.220	1.288	1.024	1.029	0.307	0.658	
Body	5 GHz WiFi / IEEE 802.11n	40	OFDM	WF7b	WYFW3	97.68	0.02	5755	159	U-NII-3	13.5	19.50	18.37	Top	0	V1	0.670	0.190	1.288	1.024	0.890	0.252	0.556	
Body	5 GHz WiFi / IEEE 802.11n	40	OFDM	WF7b	WYFW3	97.68	-0.01	5755	151	U-NII-3	13.5	19.50	18.40	Bottom	0	V1	0.010	0.003	1.288	1.024	0.013	0.004	0.008	
Body	5 GHz WiFi / IEEE 802.11n	40	OFDM	WF7b	WYFW3	97.68	0.02	5755	151	U-NII-3	13.5	19.50	18.40	Right	0	V1	0.002	0.000	1.288	1.024	0.003	0.000	0.002	
Body	5 GHz WiFi / IEEE 802.11n	40	OFDM	WF7b	WYFW1	97.68	-0.21	5755	151	U-NII-3	13.5	19.50	18.40	Left	0	V1	0.126	0.038	1.288	1.024	0.166	0.050	0.104	
ANSI/IEEE C95.1-1992 - SAFETY LIMIT																								
Unmodulated Frequency (General Population)																	1.6 W/kg (mW/g)							
Spatial Peak																	Percent over 1.6m							

Table 9-6 Antenna WF7a U-NII-1

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]	Add'l Info	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 WFI/ IEEE 802.11n	40	OFDM	WF7a	WYFW3	97.68	0.16	5230	46	U-NII-1	13.5	17.00	16.08	Back	0	V1	0.136	0.051	1.236	1.024	0.172	0.067	0.108	
Body	5 GHz WFI/ IEEE 802.11n	40	OFDM	WF7a	WYFW3	97.68	0.04	5230	38	U-NII-1	13.5	16.50	15.45	Top	0	V1	0.090	0.197	1.274	1.024	0.901	0.299	0.613	
Body	5 GHz WFI/ IEEE 802.11n	40	OFDM	WF7a	WYFW3	97.68	0.06	5230	46	U-NII-1	13.5	17.00	16.08	Top	0	V1	0.073	0.255	1.236	1.024	1.505	0.323	0.691	A2
Body	5 GHz WFI/ IEEE 802.11n	40	OFDM	WF7a	7M9W3	97.68	0.00	5230	46	U-NII-1	13.5	17.00	16.02	Top	0	V2	0.056	0.243	1.253	1.024	1.098	0.312	0.686	
Body	5 GHz WFI/ IEEE 802.11n	40	OFDM	WF7a	WYFW3	97.68	0.08	5230	46	U-NII-1	13.5	17.00	16.08	Top	0	V1	0.090	0.256	1.236	1.024	0.901	0.299	0.613	
Body	5 GHz WFI/ IEEE 802.11n	40	OFDM	WF7a	WYFW3	97.68	0.08	5230	46	U-NII-1	13.5	17.00	16.08	Bottom	0	V1	0.002	0.000	1.236	1.024	0.003	0.000	0.002	
Body	5 GHz WFI/ IEEE 802.11n	40	OFDM	WF7a	WYFW3	97.68	0.07	5230	46	U-NII-1	13.5	17.00	16.08	Right	0	V1	0.002	0.000	1.236	1.024	0.003	0.000	0.002	
Body	5 GHz WFI/ IEEE 802.11n	40	OFDM	WF7a	WYFW3	97.68	0.09	5230	46	U-NII-1	13.5	17.00	16.08	Left	0	V1	0.004	0.000	1.236	1.024	0.005	0.000	0.003	
ANS/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 9-7 Antenna WF7a U-NII-2C

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]	Add'l Info	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 WFI/ IEEE 802.11ac	80	OFDM	WF7a	7W7G7	95.18	0.01	5690	138	U-NII-2C	29.3	15.25	14.53	Back	0	V2	0.077	0.027	1.180	1.051	0.095	0.033	0.059	
Body	5 GHz WFI/ IEEE 802.11ac	80	OFDM	WF7a	7W7G7	95.18	0.02	5530	106	U-NII-2C	29.3	14.50	14.22	Top	0	V2	0.782	0.230	1.067	1.051	0.877	0.258	0.548	
Body	5 GHz WFI/ IEEE 802.11ac	80	OFDM	WF7a	WYFW3	95.18	0.06	4610	122	U-NII-2C	29.3	13.25	14.11	Top	0	V1	0.762	0.219	1.355	1.051	0.901	0.299	0.613	
Body	5 GHz WFI/ IEEE 802.11ac	80	OFDM	WF7a	7W7G7	95.18	0.17	5610	122	U-NII-2C	29.3	15.25	14.13	Top	0	V2	0.846	0.249	1.294	1.051	1.151	0.339	0.719	
Body	5 GHz WFI/ IEEE 802.11ac	80	OFDM	WF7a	7W7G7	95.18	-0.15	5630	122	U-NII-2C	29.3	15.25	15.15	Top	0	V2	0.611	0.145	1.294	1.051	1.134	0.332	0.709	
Body	5 GHz WFI/ IEEE 802.11ac	80	OFDM	WF7a	7W7G7	95.18	0.13	5690	138	U-NII-2C	29.3	15.25	14.53	Top	0	V2	0.762	0.212	1.180	1.051	0.970	0.288	0.608	
Body	5 GHz WFI/ IEEE 802.11ac	80	OFDM	WF7a	7W7G7	95.18	0.01	5690	138	U-NII-2C	29.3	15.25	14.53	Bottom	0	V2	0.006	0.001	1.180	1.051	0.007	0.001	0.004	
Body	5 GHz WFI/ IEEE 802.11ac	80	OFDM	WF7a	7W7G7	95.18	0.01	5690	138	U-NII-2C	29.3	15.25	14.53	Right	0	V2	0.002	0.000	1.180	1.051	0.002	0.000	0.001	
Body	5 GHz WFI/ IEEE 802.11ac	80	OFDM	WF7a	7W7G7	95.18	0.07	5690	138	U-NII-2C	29.3	15.25	14.53	Left	0	V2	0.000	0.000	1.180	1.051	0.000	0.000	0.000	
ANS/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 9-8 Antenna WF7a U-NII-3

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]	Add'l Info	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 WFI/ IEEE 802.11ac	80	OFDM	WF7a	7W7G7	95.18	0.08	5775	155	U-NII-3	29.3	15.75	14.43	Back	0	V2	0.061	0.031	1.355	1.051	0.131	0.047	0.082	
Body	5 GHz WFI/ IEEE 802.11ac	80	OFDM	WF7a	WYFW3	95.18	0.08	5775	155	U-NII-3	29.3	15.75	14.30	Top	0	V1	0.757	0.223	1.396	1.051	1.111	0.327	0.694	
Body	5 GHz WFI/ IEEE 802.11ac	80	OFDM	WF7a	7W7G7	95.18	0.07	5775	155	U-NII-3	29.3	15.75	14.43	Top	0	V2	0.000	0.000	1.355	1.051	0.000	0.000	0.000	
Body	5 GHz WFI/ IEEE 802.11ac	80	OFDM	WF7a	7W7G7	95.18	0.01	5775	155	U-NII-3	29.3	15.75	14.43	Bottom	0	V1	0.005	0.000	1.355	1.051	0.007	0.001	0.004	
Body	5 GHz WFI/ IEEE 802.11ac	80	OFDM	WF7a	7W7G7	95.18	0.02	5775	155	U-NII-3	29.3	15.75	14.43	Right	0	V2	0.000	0.000	1.355	1.051	0.000	0.000	0.000	
Body	5 GHz WFI/ IEEE 802.11ac	80	OFDM	WF7a	7W7G7	95.18	0.04	5775	155	U-NII-3	29.3	15.75	14.43	Left	0	V2	0.010	0.002	1.355	1.051	0.014	0.003	0.009	
ANS/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 WF2a U-NII-1

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]	Add'l Info	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 WFI/ IEEE 802.11n	40	OFDM	WF2a	HGM9Y	97.68	0.03	5230	46	U-NII-1	13.5	18.00	17.05	Back	0	V2	0.102	0.037	1.245	1.024	0.130	0.047	0.081	
Body	5 GHz WFI/ IEEE 802.11n	40	OFDM	WF2a	HGM9Y	97.68	-0.04	5230	46	U-NII-1	13.5	18.00	17.05	Top	0	V2	0.008	0.000	1.245	1.024	0.010	0.000	0.006	
Body	5 GHz WFI/ IEEE 802.11n	40	OFDM	WF2a	HGM9Y	97.68	0.17	5190	38	U-NII-1	13.5	16.50	15.38	Bottom	0	V2	0.456	0.123	1.294	1.024	0.604	0.163	0.378	
Body	5 GHz WFI/ IEEE 802.11n	40	OFDM	WF2a	HGM9Y	97.68	-0.16	5230	46	U-NII-1	13.5	18.00	17.05	Bottom	0	V2	0.685	0.190	1.245	1.024	0.873	0.242	0.546	
Body	5 GHz WFI/ IEEE 802.11n	40	OFDM	WF2a	LP429	97.68	0.17	5230	46	U-NII-1	13.5	18.00	16.97	Bottom	0	V1	0.588	0.162	1.268	1.024	0.763	0.210	0.477	
Body	5 GHz WFI/ IEEE 802.11n	40	OFDM	WF2a	HGM9Y	97.68	0.09	5230	46	U-NII-1	13.5	18.00	17.05	Right	0	V2	0.057	0.015	1.245	1.024	0.071	0.024	0.046	
Body	5 GHz WFI/ IEEE 802.11n	40	OFDM	WF2a	HGM9Y	97.68	0.01	5230	46	U-NII-1	13.5	18.00	17.05	Left	0	V2	0.000	0.000	1.245	1.024	0.000	0.000	0.000	
ANS/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																	Body 1.6 W/kg (mW/g) averaged over 1 gram							

Table 9-10 Antenna WF2a U-NII-2C

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]	Add'l Info	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 WFI/ IEEE 802.11ac	80	OFDM	WF2a	C4TK6	95.18	0.08	5610	122	U-NII-2C	29.3	15.75	14.37	Back	0	V1	0.086	0.031	1.374	1.051	0.124	0.045	0.078	
Body	5 GHz WFI/ IEEE 802.11ac	80	OFDM	WF2a	C4TK6	95.18	0.01	5610	122	U-NII-2C	29.3	15.75	14.37	Top	0	V1	0.002	0.000	1.374	1.051	0.003	0.000	0.002	
Body	5 GHz WFI/ IEEE 802.11ac	80	OFDM	WF2a	C4TK6	95.18	-0.15	5530	106	U-NII-2C	29.3	14.50	14.27	Bottom	0	V1	0.667	0.214	1.054	1.051	0.901	0.299	0.613	
Body	5 GHz WFI/ IEEE 802.11ac	80	OFDM	WF2a	C4TK6	95.18	0.19	5610	122	U-NII-2C	29.3	15.75	14.37	Bottom	0	V1	0.703	0.229	1.374	1.051	1.015	0.331	0.634	
Body	5 GHz WFI/ IEEE 802.11ac	80	OFDM	WF2a	C4TK6	95.18	-0.01	5690	138	U-NII-2C	29.3	15.75	14.38	Bottom	0	V1	0.753	0.245	1.403	1.051	1.110	0.361	0.694	
Body	5 GHz WFI/ IEEE 802.11ac	80	OFDM	WF2a	QW4M3	95.18	0.06	5690	138	U-NII-2C	29.3	15.75	14.33	Bottom	0	V2	0.751	0.244	1.387	1.051	1.096	0.356	0.685	
Body	5 GHz WFI/ IEEE 802.11ac	80	OFDM	WF2a	C4TK6	95.18	0.02	5610	122	U-NII-2C	29.3	15.75	14.37	Right	0	V1	0.089	0.027	1.374	1.051	0.129	0.039	0.081	
Body	5 GHz WFI/ IEEE 802.11ac	80	OFDM	WF2a	C4TK6	95.18	0.07	5610	122	U-NII-2C	29.3	15.75	14.37	Left	0	V1	0.010	0.000	1.374	1.051	0.014	0.000	0.009	
ANS/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																	Body 1.6 W/kg (mW/g) averaged over 1 gram							

Table 9-11 Antenna WF2a U-NII-3

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]	Add'l Info	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 WFI/ IEEE 802.11ac	80	OFDM	WF2a	KWQMK	95.18	-0.18	5775	155	U-NII-3	29.3	16.00	14.37	Back	0	V1	0.105	0.036	1.455	1.051	0.161	0.055	0.101	
Body	5 GHz WFI/ IEEE 802.11ac	80	OFDM	WF2a	KWQMK	95.18	0.01	5775	155	U-NII-3	29.3	16.00	14.37	Top	0	V1	0.001	0.001	1.455	1.051	0.002	0.001	0.001	
Body	5 GHz WFI/ IEEE 802.11ac	80	OFDM	WF2a	KWQMK	95.18	-0.13	5775	155	U-NII-3	29.3	16.00	14.37	Bottom	0	V2	0.001	0.001	1.455	1.051	0.002	0.001	0.001	
Body	5 GHz WFI/ IEEE 802.11ac	80	OFDM	WF2a	QWVWQ	95.18	0.17	5775	155	U-NII-3	29.3	16.00	14.26	Bottom	0	V2	0.729	0.235	1.493	1.051	1.144	0.369	0.715	
Body	5 GHz WFI/ IEEE 802.11ac	80	OFDM	WF2a	KWQMK	95.18	-0.21	5775	155	U-NII-3	29.3	16.00	14.37	Right	0	V1	0.135	0.037	1.455	1.051	0.176	0.057	0.110	
Body	5 GHz WFI/ IEEE 802.11ac	80	OFDM	WF2a	KWQMK	95.18	0.00	5775	155	U-NII-3	29.3	16.00	14.37	Left	0	V1	0.020	0.004	1.455	1.051	0.031	0.006	0.019	
ANSI/IEEE C92.1.1987 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																	1.6 W/kg Body averaged over 1 gram							

9.3 6 GHz WIFI SISO Standalone SAR

Table 9-12 Antenna WF7b

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]	Add'l Info	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	WF7b	W76YJ	97.74	0.11	6025	15	68.1	16.25	16.04	Back	0	V2	0.075	0.027	1.050	1.023	0.081	0.029	0.051	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF7b	W76YJ	97.74	0.00	6025	15	68.1	16.25	16.04	Top	0	V2	0.729	0.217	1.050	1.023	0.782	0.233	0.489	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF7b	JW41Q	97.74	0.02	6025	15	68.1	16.25	16.20	Top	0	V1	0.693	0.205	1.012	1.023	0.717	0.212	0.448	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF7b	W76YJ	97.74	0.03	6345	79	68.1	15.50	14.30	Top	0	V2	0.522	0.161	1.318	1.023	0.704	0.217	0.440	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF7b	W76YJ	97.74	0.07	6305	111	68.1	14.25	13.53	Top	0	V2	0.414	0.121	1.180	1.023	0.500	0.146	0.311	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF7b	W76YJ	97.74	-0.07	6665	143	68.1	16.00	15.34	Top	0	V2	0.556	0.126	1.164	1.023	0.614	0.150	0.384	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF7b	W76YJ	97.74	-0.04	6985	207	68.1	15.25	14.38	Top	0	V2	0.425	0.123	1.222	1.023	0.531	0.154	0.332	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF7b	W76YJ	97.74	0.09	6025	15	68.1	16.25	16.04	Bottom	0	V2	0.001	0.000	1.050	1.023	0.001	0.000	0.001	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF7b	W76YJ	97.74	0.04	6025	15	68.1	16.25	16.04	Right	0	V2	0.003	0.000	1.050	1.023	0.002	0.000	0.001	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF7b	W76YJ	97.74	-0.16	6025	15	68.1	16.25	16.04	Left	0	V2	0.109	0.039	1.050	1.023	0.117	0.042	0.073	
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 9-13 Antenna WF7a

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]	Add'l Info	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	WF7a	6/WG0	97.74	0.02	6665	143	68.1	14.75	13.34	Back	0	V1	0.004	0.001	1.384	1.023	0.006	0.001	0.004	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF7a	6/WG0	97.74	0.03	6025	15	68.1	13.75	13.20	Top	0	V1	0.706	0.228	1.135	1.023	0.820	0.265	0.513	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF7a	6/WG0	97.74	-0.11	6345	79	68.1	13.75	13.41	Top	0	V1	0.762	0.236	1.081	1.023	0.843	0.261	0.527	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF7a	6/WG0	97.74	-0.08	6305	111	68.1	13.00	12.52	Top	0	V1	0.873	0.268	1.117	1.023	0.988	0.306	0.624	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF7a	6/WG0	97.74	-0.17	6665	143	68.1	14.75	13.34	Top	0	V1	0.786	0.231	1.384	1.023	1.113	0.327	0.696	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF7a	6/WG0	97.74	0.03	6985	207	68.1	13.75	12.99	Top	0	V1	0.973	0.269	1.191	1.023	1.183	0.328	0.739	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF7a	7W7G7	97.74	0.07	6985	207	68.1	13.75	12.75	Top	0	V2	0.100	0.000	1.143	1.023	1.181	0.327	0.718	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF7a	7W7G7	97.74	0.04	6985	207	68.1	13.75	13.17	Top	0	V2	0.020	0.000	1.143	1.023	1.181	0.310	0.738	A3
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF7a	6/WG0	97.74	0.05	6665	143	68.1	14.75	13.34	Bottom	0	V1	0.000	0.000	1.384	1.023	0.000	0.000	0.000	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF7a	6/WG0	97.74	0.08	6665	143	68.1	14.75	13.34	Right	0	V1	0.000	0.000	1.384	1.023	0.000	0.000	0.000	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF7a	6/WG0	97.74	0.04	6665	143	68.1	14.75	13.34	Left	0	V1	0.007	0.002	1.384	1.023	0.010	0.003	0.006	
ANSI/IEEE C95.1.1992 - SAFETY LIMIT																Body							
Spatial Peak																1.6 W/kg (mW/g)							
Uncontrolled Exposure/General Population																averaged over 1 gram							

Note: Blue entry represents variability measurement

Table 9-14 Antenna WF2a

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]	Add'l Info	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	WF2a	6/WG0	97.74	0.13	6345	79	68.1	12.75	12.43	Back	0	V1	0.049	0.018	1.076	1.023	0.054	0.020	0.034	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF2a	6/WG0	97.74	0.04	6345	79	68.1	12.75	12.43	Top	0	V1	0.000	0.000	1.076	1.023	0.000	0.000	0.000	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF2a	6/WG0	97.74	-0.05	6025	15	68.1	11.75	11.62	Bottom	0	V1	0.669	0.207	1.030	1.023	0.705	0.218	0.441	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF2a	6/WG0	97.74	-0.04	6345	79	68.1	12.75	12.43	Bottom	0	V1	0.578	0.168	1.076	1.023	0.636	0.185	0.398	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF2a	6/WG0	97.74	-0.10	6305	111	68.1	12.75	12.01	Bottom	0	V1	0.556	0.160	1.186	1.023	0.675	0.194	0.422	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF2a	6/WG0	97.74	-0.01	6965	143	68.1	12.25	11.40	Bottom	0	V1	0.562	0.156	1.161	1.023	0.667	0.185	0.417	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF2a	6/WG0	97.74	0.02	6985	207	68.1	11.75	11.47	Bottom	0	V1	0.778	0.207	1.067	1.023	0.848	0.226	0.531	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF2a	3NK97	97.74	-0.02	6985	207	68.1	11.75	11.30	Bottom	0	V2	0.691	0.187	1.109	1.023	0.784	0.212	0.480	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF2a	6/WG0	97.74	0.07	6345	79	68.1	12.75	12.43	Right	0	V1	0.024	0.007	1.076	1.023	0.026	0.008	0.016	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF2a	6/WG0	97.74	0.03	6345	79	68.1	12.75	12.43	Left	0	V1	0.000	0.000	1.076	1.023	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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9.4 6 GHz WIFI SISO Standalone Absorbed Power Density

Table 9-15 Antenna WF7b

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]	Add'l Info	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	WF7b	W76VJ	97.74	0.11	6025	15	68.1	16.25	16.04	Back	0	V2	0.607	1.050	1.023	0.652	0.033	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	WF7b	W76VJ	97.74	0.00	6025	15	68.1	16.25	16.04	Top	0	V2	4.990	1.050	1.023	5.360	0.268	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	WF7b	W44SQ	97.74	0.02	6025	15	68.1	16.25	16.20	Top	0	V1	4.730	1.052	1.023	4.897	0.245	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	WF7b	W76VJ	97.74	0.03	6345	79	68.1	15.50	14.80	Top	0	V2	3.660	1.338	1.023	4.835	0.247	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	WF7b	W76VJ	97.74	0.07	6505	111	68.1	14.25	13.53	Top	0	V2	2.750	1.180	1.023	3.320	0.166	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	WF7b	W76VJ	97.74	-0.07	6665	143	68.1	16.00	15.34	Top	0	V2	2.950	1.164	1.023	3.513	0.176	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	WF7b	W76VJ	97.74	-0.04	6985	207	68.1	15.25	14.38	Top	0	V2	2.610	1.222	1.023	3.513	0.176	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	WF7b	W76VJ	97.74	0.09	6025	15	68.1	16.25	16.04	Bottom	0	V2	0.015	1.050	1.023	0.016	0.001	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	WF7b	W76VJ	97.74	0.04	6025	15	68.1	16.25	16.04	Right	0	V2	0.016	1.050	1.023	0.017	0.001	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	WF7b	W76VJ	97.74	-0.16	6025	15	68.1	16.25	16.04	Left	0	V2	0.877	1.050	1.023	0.942	0.047	

Table 9-16 Antenna WF7a

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]	Add'l Info	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	WF7a	6WWDG	97.74	0.02	6665	143	68.1	14.75	13.34	Back	0	V1	0.030	1.384	1.023	0.042	0.002	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	WF7a	6WWDG	97.74	0.03	6025	15	68.1	13.75	13.30	Top	0	V1	5.210	1.135	1.023	6.049	0.302	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	WF7a	6WWDG	97.74	-0.11	6345	79	68.1	13.75	13.41	Top	0	V1	5.400	1.081	1.023	5.972	0.299	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	WF7a	6WWDG	97.74	-0.08	6505	111	68.1	13.00	12.52	Top	0	V1	6.110	1.117	1.023	6.982	0.349	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	WF7a	6WWDG	97.74	-0.17	6665	143	68.1	14.75	13.34	Top	0	V1	5.280	1.384	1.023	7.476	0.374	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	WF7a	6WWDG	97.74	0.03	6985	207	68.1	13.75	12.99	Top	0	V1	6.190	1.191	1.023	7.542	0.377	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	WF7a	7W7G7	97.74	-0.01	6985	207	68.1	13.75	13.17	Top	0	V2	6.490	1.143	1.023	7.589	0.379	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	WF7a	7W7G7	97.74	0.04	6985	207	68.1	13.75	13.17	Top	0	V2	6.490	1.143	1.023	7.589	0.379	A3
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	WF7a	6WWDG	97.74	0.05	6665	143	68.1	14.75	13.34	Bottom	0	V1	0.000	1.384	1.023	0.000	0.000	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	WF7a	6WWDG	97.74	0.08	6665	143	68.1	14.75	13.34	Right	0	V1	0.000	1.384	1.023	0.000	0.000	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	WF7a	6WWDG	97.74	0.04	6665	143	68.1	14.75	13.34	Left	0	V1	0.036	1.384	1.023	0.051	0.003	

Table 9-17 Antenna WF2a

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]	Add'l Info	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	WF2a	6WWDG	97.74	0.13	6345	79	68.1	12.75	12.43	Back	0	V1	0.394	1.076	1.023	0.434	0.022	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	WF2a	6WWDG	97.74	0.04	6345	79	68.1	12.75	12.43	Top	0	V1	0.003	1.076	1.023	0.003	0.000	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	WF2a	6WWDG	97.74	-0.05	6025	15	68.1	11.75	11.62	Bottom	0	V1	4.730	1.030	1.023	4.984	0.249	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	WF2a	6WWDG	97.74	-0.04	6345	79	68.1	12.75	12.43	Bottom	0	V1	3.670	1.076	1.023	4.260	0.213	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	WF2a	6WWDG	97.74	-0.10	6505	111	68.1	12.75	12.01	Bottom	0	V1	3.680	1.186	1.023	4.465	0.223	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	WF2a	6WWDG	97.74	-0.01	6665	143	68.1	12.25	11.60	Bottom	0	V1	3.600	1.161	1.023	4.276	0.214	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	WF2a	6WWDG	97.74	0.02	6985	207	68.1	11.75	11.47	Bottom	0	V1	4.790	1.067	1.023	5.228	0.261	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	WF2a	2W697	97.74	-0.02	6985	207	68.1	11.75	11.30	Bottom	0	V2	4.240	1.109	1.023	4.924	0.246	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	WF2a	6WWDG	97.74	0.07	6345	79	68.1	12.75	12.43	Right	0	V1	0.158	1.076	1.023	0.174	0.009	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	WF2a	6WWDG	97.74	0.03	6345	79	68.1	12.75	12.43	Left	0	V1	0.000	1.076	1.023	0.000	0.000	

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9.5 2.4 GHz Bluetooth SISO Standalone SAR

Table 9-18 Antenna WF7b

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]	Add'l Info	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	FHSS	WF7b	LP4Q9	76.97	0.09	2402	0	1	19.00	17.80	Back	0	V1	0.059	0.030	1.318	1.007	0.078	0.040	0.049	
Body	2.4 GHz Bluetooth	FHSS	WF7b	LP4Q9	76.97	0.00	2402	0	1	19.00	17.80	Top	0	V1	0.321	0.145	1.318	1.007	0.426	0.192	0.266	
Body	2.4 GHz Bluetooth	FHSS	WF7b	7M9W1	76.97	0.15	2402	0	1	19.00	17.29	Top	0	V2	0.291	0.133	1.483	1.007	0.435	0.199	0.272	
Body	2.4 GHz Bluetooth	FHSS	WF7b	LP4Q9	76.97	0.08	2402	0	1	19.00	17.80	Bottom	0	V1	0.003	0.001	1.318	1.007	0.004	0.001	0.003	
Body	2.4 GHz Bluetooth	FHSS	WF7b	LP4Q9	76.97	0.01	2402	0	1	19.00	17.80	Right	0	V1	0.000	0.000	1.318	1.007	0.000	0.000	0.000	
Body	2.4 GHz Bluetooth	FHSS	WF7b	LP4Q9	76.97	-0.11	2402	0	1	19.00	17.80	Left	0	V1	0.027	0.013	1.318	1.007	0.036	0.017	0.023	
Body	2.4 GHz Bluetooth	FHSS	WF7b	LP4Q9	76.97	0.08	2441	39	1	14.50	13.61	Top	0	V1	0.152	0.067	1.227	1.007	0.188	0.083	0.118	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																Body						
Spatial Peak																1.6 W/kg (mW/g)						
Uncontrolled Exposure/General Population																averaged over 1 gram						

Note: The reported SAR was scaled to the 77.5% transmission duty factor to determine compliance since the duty factor of the device is permanently limited to 77.5% per manufacturer.

Table 9-19 Antenna WF2b

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]	Add'l Info	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	FHSS	WF2b	3N937	76.97	0.00	2402	0	1	19.00	17.88	Back	0	V2	0.074	0.037	1.294	1.007	0.096	0.048	0.060	
Body	2.4 GHz Bluetooth	FHSS	WF2b	3N937	76.97	0.08	2402	0	1	19.00	17.88	Top	0	V2	0.006	0.002	1.294	1.007	0.008	0.003	0.005	
Body	2.4 GHz Bluetooth	FHSS	WF2b	3N937	76.97	0.13	2402	0	1	19.00	17.88	Bottom	0	V2	0.349	0.166	1.294	1.007	0.455	0.216	0.284	
Body	2.4 GHz Bluetooth	FHSS	WF2b	3N937	76.97	-0.14	2402	0	1	19.00	17.88	Right	0	V2	0.419	0.187	1.294	1.007	0.546	0.244	0.341	A4
Body	2.4 GHz Bluetooth	FHSS	WF2b	C4T46	76.97	-0.04	2402	0	1	19.00	17.78	Right	0	V1	0.361	0.162	1.324	1.007	0.481	0.216	0.301	
Body	2.4 GHz Bluetooth	FHSS	WF2b	3N937	76.97	0.01	2402	0	1	19.00	17.88	Left	0	V2	0.003	0.002	1.294	1.007	0.004	0.003	0.003	
Body	2.4 GHz Bluetooth	FHSS	WF2b	3N937	76.97	-0.01	2402	0	1	14.50	13.58	Bottom	0	V2	0.145	0.068	1.236	1.007	0.180	0.085	0.113	
Body	2.4 GHz Bluetooth	FHSS	WF2b	3N937	76.97	0.06	2402	0	1	14.50	13.58	Right	0	V2	0.153	0.068	1.236	1.007	0.190	0.085	0.119	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																Body						
Spatial Peak																1.6 W/kg (mW/g)						
Uncontrolled Exposure/General Population																averaged over 1 gram						

Note: The reported SAR was scaled to the 77.5% transmission duty factor to determine compliance since the duty factor of the device is permanently limited to 77.5% per manufacturer.

9.6 802.15.4 Standalone SAR

Table 9-20 Antenna WF7b

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]	Add'l Info	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	WF7b	7W7G7	-0.03	2475	25	1	21.00	20.63	Back	0	V2	0.281	0.138	1.089	0.184	0.090	0.115	
Body	802.15.4	WF7b	7W7G7	-0.01	2405	11	1	21.00	20.51	Top	0	V2	0.826	0.387	1.119	0.555	0.260	0.347	
Body	802.15.4	WF7b	7W7G7	-0.01	2440	18	1	21.00	20.60	Top	0	V2	0.811	0.373	1.096	0.533	0.245	0.333	
Body	802.15.4	WF7b	91LFJ	0.00	2475	25	1	21.00	20.62	Top	0	V1	1.200	0.559	1.091	0.786	0.366	0.491	
Body	802.15.4	WF7b	7W7G7	0.03	2475	25	1	21.00	20.63	Top	0	V2	1.170	0.500	1.089	0.764	0.327	0.478	
Body	802.15.4	WF7b	7W7G7	0.04	2475	25	1	21.00	20.63	Bottom	0	V2	0.041	0.017	1.089	0.027	0.011	0.017	
Body	802.15.4	WF7b	7W7G7	0.05	2475	25	1	21.00	20.63	Right	0	V2	0.002	0.000	1.089	0.001	0.000	0.001	
Body	802.15.4	WF7b	7W7G7	-0.16	2475	25	1	21.00	20.63	Left	0	V2	0.085	0.044	1.089	0.056	0.029	0.035	
Body	802.15.4	WF7b	91LFJ	0.05	2475	25	1	15.50	14.68	Back	0	V1	0.058	0.029	1.208	0.042	0.021	0.026	
Body	802.15.4	WF7b	91LFJ	0.01	2475	25	1	15.50	14.68	Top	0	V1	0.301	0.129	1.208	0.218	0.093	0.136	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak														Body 1.6 W/kg (mW/g) averaged over 1 gram					
Uncontrolled Exposure/General Population																			

Note: Manufacturer declared that maximum source-based duty cycle of 802.15.4 mode is permanently limited to 60%. SAR measurement for 802.15.4 is evaluated at higher duty cycle of 100% and scaled down to 60%.

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Table 9-21 Antenna WF2b

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]	Add'l Info	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	WF2b	C4TK6	-0.06	2440	18	1	21.00	20.99	Back	0	V1	0.272	0.133	1.002	0.164	0.080	0.103	
Body	802.15.4	WF2b	C4TK6	0.01	2440	18	1	21.00	20.99	Top	0	V1	0.030	0.014	1.002	0.018	0.008	0.011	
Body	802.15.4	WF2b	C4TK6	-0.01	2405	11	1	21.00	20.96	Bottom	0	V1	1.050	0.497	1.009	0.636	0.301	0.398	
Body	802.15.4	WF2b	C4TK6	-0.05	2440	18	1	21.00	20.99	Bottom	0	V1	1.010	0.486	1.002	0.607	0.292	0.379	
Body	802.15.4	WF2b	C4TK6	0.00	2475	25	1	21.00	20.98	Bottom	0	V1	1.080	0.521	1.005	0.651	0.314	0.407	
Body	802.15.4	WF2b	C4TK6	0.01	2405	11	1	21.00	20.96	Right	0	V1	1.060	0.493	1.009	0.642	0.298	0.401	
Body	802.15.4	WF2b	C4TK6	0.01	2440	18	1	21.00	20.99	Right	0	V1	1.140	0.520	1.002	0.685	0.313	0.428	
Body	802.15.4	WF2b	C4TK6	0.04	2475	25	1	21.00	20.98	Right	0	V1	1.360	0.615	1.005	0.820	0.371	0.513	
Body	802.15.4	WF2b	C4TK6	0.00	2475	25	1	21.00	20.98	Right	0	V1	1.400	0.631	1.005	0.844	0.380	0.528	AS
Body	802.15.4	WF2b	3NK97	0.01	2475	25	1	21.00	20.73	Right	0	V2	1.210	0.550	1.064	0.772	0.351	0.483	
Body	802.15.4	WF2b	C4TK6	0.01	2440	18	1	21.00	20.99	Left	0	V1	0.010	0.004	1.002	0.006	0.002	0.004	
Body	802.15.4	WF2b	C4TK6	0.11	2405	11	1	15.50	14.78	Back	0	V1	0.051	0.025	1.180	0.036	0.018	0.023	
Body	802.15.4	WF2b	C4TK6	-0.03	2405	11	1	15.50	14.78	Bottom	0	V1	0.222	0.106	1.180	0.157	0.075	0.098	
Body	802.15.4	WF2b	C4TK6	0.01	2405	11	1	15.50	14.78	Right	0	V1	0.269	0.120	1.180	0.190	0.085	0.119	
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

Note: Manufacturer declared that maximum source-based duty cycle of 802.15.4 mode is permanently limited to 60%. SAR measurement for 802.15.4 is evaluated at higher duty cycle of 100% and scaled down to 60%.

9.7 NB U-NII 1 Standalone SAR

Table 9-22 Antenna WF7b

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]	Add'l Info	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	HDR	WF7b	WYFW3	76.54	0.08	5204	Mid	4	11.50	11.28	Back	0	V1	0.010	0.005	1.052	1.013	0.011	0.005	0.007	
Body	NB U-NII 1	HDR	WF7b	HGMV9	76.54	0.09	5204	Mid	4	11.50	11.27	Top	0	V2	0.079	0.024	1.054	1.013	0.084	0.026	0.053	
Body	NB U-NII 1	HDR	WF7b	WYFW3	76.54	0.04	5204	Mid	4	11.50	11.28	Top	0	V1	0.085	0.026	1.052	1.013	0.091	0.028	0.057	
Body	NB U-NII 1	HDR	WF7b	WYFW3	76.54	0.01	5204	Mid	4	11.50	11.28	Bottom	0	V1	0.002	0.001	1.052	1.013	0.002	0.001	0.001	
Body	NB U-NII 1	HDR	WF7b	WYFW3	76.54	0.08	5204	Mid	4	11.50	11.28	Right	0	V1	0.000	0.000	1.052	1.013	0.000	0.000	0.000	
Body	NB U-NII 1	HDR	WF7b	WYFW3	76.54	0.03	5204	Mid	4	11.50	11.28	Left	0	V1	0.006	0.003	1.052	1.013	0.006	0.003	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							

Note: The reported SAR was scaled to the 77.5% transmission duty factor to determine compliance since the duty factor of the device is permanently limited to 77.5% per manufacturer.

Table 9-23 Antenna WF7a

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]	Add'l Info	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	HDR	WF7a	WYFW3	76.54	-0.15	5162	Low	4	12.00	11.59	Back	0	V1	0.035	0.012	1.099	1.013	0.039	0.013	0.024	
Body	NB U-NII 1	HDR	WF7a	WYFW3	76.54	-0.08	5162	Low	4	12.00	11.59	Top	0	V1	0.246	0.072	1.099	1.013	0.274	0.080	0.171	
Body	NB U-NII 1	HDR	WF7a	7MFW1	76.54	0.09	5162	Low	4	12.00	11.24	Top	0	V2	0.196	0.054	1.191	1.013	0.236	0.065	0.148	
Body	NB U-NII 1	HDR	WF7a	WYFW3	76.54	0.07	5162	Low	4	12.00	11.59	Bottom	0	V1	0.000	0.000	1.099	1.013	0.000	0.000	0.000	
Body	NB U-NII 1	HDR	WF7a	WYFW3	76.54	0.01	5162	Low	4	12.00	11.59	Right	0	V1	0.000	0.000	1.099	1.013	0.000	0.000	0.000	
Body	NB U-NII 1	HDR	WF7a	WYFW3	76.54	0.01	5162	Low	4	12.00	11.59	Left	0	V1	0.002	0.000	1.099	1.013	0.002	0.000	0.001	
Body	NB U-NII 1	HDR	WF7a	WYFW3	76.54	0.16	5204	Mid	4	11.00	10.30	Top	0	V1	0.201	0.055	1.175	1.013	0.239	0.065	0.149	
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: The reported SAR was scaled to the 77.5% transmission duty factor to determine compliance since the duty factor of the device is permanently limited to 77.5% per manufacturer.

Table 9-24 Antenna WF2a

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]	Add'l Info	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	HDR	WF2a	HGMV9	76.97	0.05	5245	High	8	13.00	12.41	Back	0	V2	0.027	0.010	1.146	1.007	0.031	0.012	0.019	
Body	NB U-NII 1	HDR	WF2a	HGMV9	76.97	0.02	5245	High	8	13.00	12.41	Top	0	V2	0.000	0.000	1.146	1.007	0.000	0.000	0.000	
Body	NB U-NII 1	HDR	WF2a	HGMV9	76.97	0.07	5245	High	8	13.00	12.41	Bottom	0	V2	0.229	0.064	1.146	1.007	0.264	0.074	0.165	
Body	NB U-NII 1	HDR	WF2a	911FJ	76.97	-0.06	5245	High	8	13.00	12.32	Bottom	0	V1	0.194	0.054	1.169	1.007	0.228	0.064	0.143	
Body	NB U-NII 1	HDR	WF2a	HGMV9	76.97	0.03	5245	High	8	13.00	12.41	Right	0	V2	0.018	0.006	1.146	1.007	0.021	0.007	0.013	
Body	NB U-NII 1	HDR	WF2a	HGMV9	76.97	0.06	5245	High	8	13.00	12.41	Left	0	V2	0.000	0.000	1.146	1.007	0.000	0.000	0.000	
Body	NB U-NII 1	HDR	WF2a	HGMV9	76.97	0.07	5245	High	8	12.50	11.38	Bottom	0	V2	0.190	0.049	1.294	1.007	0.248	0.064	0.155	
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: The reported SAR was scaled to the 77.5% transmission duty factor to determine compliance since the duty factor of the device is permanently limited to 77.5% per manufacturer.

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9.8 NB U-NII 3 Standalone SAR

Table 9-25 Antenna WF7b

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]	Add'l Info	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	FHSS	WF7b	JW41Q	76.97	0.02	5844	High	1	12.50	11.65	Back	0	V1	0.010	0.003	1.216	1.007	0.012	0.004	0.008	
Body	NB U-NII 3	FHSS	WF7b	7W7C7	76.97	0.04	5844	High	1	12.50	11.43	Top	0	V2	0.157	0.047	1.279	1.007	0.202	0.061	0.126	
Body	NB U-NII 3	FHSS	WF7b	JW41Q	76.97	-0.03	5844	High	1	12.50	11.65	Top	0	V1	0.187	0.054	1.216	1.007	0.229	0.066	0.143	
Body	NB U-NII 3	FHSS	WF7b	JW41Q	76.97	0.05	5844	High	1	12.50	11.65	Bottom	0	V1	0.000	0.000	1.216	1.007	0.000	0.000	0.000	
Body	NB U-NII 3	FHSS	WF7b	JW41Q	76.97	0.06	5844	High	1	12.50	11.65	Right	0	V1	0.000	0.000	1.216	1.007	0.000	0.000	0.000	
Body	NB U-NII 3	FHSS	WF7b	JW41Q	76.97	0.01	5844	High	1	12.50	11.65	Left	0	V1	0.013	0.003	1.216	1.007	0.016	0.004	0.010	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT												Body										
Spatial Peak												1.6 W/kg (mW/g)										
Uncontrolled Exposure/General Population												averaged over 1 gram										

Note: The reported SAR was scaled to the 77.5% transmission duty factor to determine compliance since the duty factor of the device is permanently limited to 77.5% per manufacturer.

Table 9-26 Antenna WF7a

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]	Add'l Info	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-Nil 3	FHSS	WF7a	7M9W1	76.97	0.04	5733	Low	1	13.00	11.71	Back	0	V2	0.038	0.013	1.346	1.007	0.052	0.018	0.033	
Body	NB U-Nil 3	FHSS	WF7a	WTFW3	76.97	0.00	5733	Low	1	13.00	11.72	Top	0	V1	0.293	0.086	1.343	1.007	0.396	0.116	0.248	
Body	NB U-Nil 3	FHSS	WF7a	7M9W1	76.97	0.03	5733	Low	1	13.00	11.71	Top	0	V2	0.340	0.107	1.346	1.007	0.461	0.138	0.288	
Body	NB U-Nil 3	FHSS	WF7a	7M9W1	76.97	0.02	5733	Low	1	13.00	11.71	Bottom	0	V2	0.000	0.000	1.346	1.007	0.000	0.000	0.000	
Body	NB U-Nil 3	FHSS	WF7a	7M9W1	76.97	0.04	5733	Low	1	13.00	11.71	Right	0	V2	0.000	0.000	1.346	1.007	0.000	0.000	0.000	
Body	NB U-Nil 3	FHSS	WF7a	7M9W1	76.97	0.01	5733	Low	1	13.00	11.71	Left	0	V2	0.004	0.002	1.346	1.007	0.005	0.003	0.003	
Body	NB U-Nil 3	FHSS	WF7a	7M9W1	76.97	0.05	5844	High	1	9.50	8.55	Top	0	V2	0.163	0.049	1.245	1.007	0.204	0.061	0.128	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT												Body										
Spatial Peak												1.6 W/kg (mW/g)										
Uncontrolled Exposure/General Population												averaged over 1 gram										

Note: The reported SAR was scaled to the 77.5% transmission duty factor to determine compliance since the duty factor of the device is permanently limited to 77.5% per manufacturer.

Table 9-27 Antenna WF2a

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]	Add'l Info	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	FHSS	WF2a	6JWGD	76.97	-0.06	5733	Low	1	14.00	12.71	Back	0	V1	0.083	0.030	1.346	1.007	0.112	0.041	0.070	
Body	NB U-NII 3	FHSS	WF2a	6JWGD	76.97	0.09	5733	Low	1	14.00	12.71	Top	0	V1	0.000	0.000	1.346	1.007	0.000	0.000	0.000	
Body	NB U-NII 3	FHSS	WF2a	6J4U	76.97	0.08	5733	Low	1	14.00	12.25	Bottom	0	V2	0.394	0.128	1.496	1.007	0.593	0.193	0.371	
Body	NB U-NII 3	FHSS	WF2a	6JWGD	76.97	0.08	5733	Low	1	14.00	12.71	Bottom	0	V1	0.502	0.165	1.346	1.007	0.680	0.224	0.425	A6
Body	NB U-NII 3	FHSS	WF2a	6JWGD	76.97	0.05	5733	Low	1	14.00	12.71	Right	0	V1	0.065	0.022	1.346	1.007	0.088	0.030	0.055	
Body	NB U-NII 3	FHSS	WF2a	6JWGD	76.97	0.01	5733	Low	1	14.00	12.71	Left	0	V1	0.000	0.000	1.346	1.007	0.000	0.000	0.000	
Body	NB U-NII 3	FHSS	WF2a	6JWGD	76.97	0.14	5733	Low	1	9.50	8.55	Back	0	V1	0.022	0.006	1.245	1.007	0.028	0.008	0.018	
Body	NB U-NII 3	FHSS	WF2a	6JWGD	76.97	0.06	5733	Low	1	9.50	8.55	Bottom	0	V1	0.213	0.066	1.245	1.007	0.267	0.083	0.167	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT															Body							
Spatial Peak															1.6 W/kg (mW/g)							
Uncontrolled Exposure/General Population															averaged over 1 gram							

Note: The reported SAR was scaled to the 77.5% transmission duty factor to determine compliance since the duty factor of the device is permanently limited to 77.5% per manufacturer.

9.9 wPT Standalone SAR

Table 9-28 Antenna wPT

Exposure	Band / Mode	Service / Modulation	Serial Number	Power Drift [dB]	Frequency [MHz]	Test Position	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Body	wPT	CW	1JW1Q	-0.12	13.60	Back	0.025	0.005	0.016	A7
Body	wPT	CW	1JW1Q	0.05	13.60	Top	0.000	0.000	0.000	
Body	wPT	CW	1JW1Q	0.07	13.60	Bottom	0.000	0.000	0.000	
Body	wPT	CW	1JW1Q	0.01	13.60	Right	0.001	0.000	0.001	
Body	wPT	CW	1JW1Q	0.04	13.60	Left	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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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 10 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.

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 Appendix E 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.

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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 the 77.5% transmission duty factor to determine compliance since the duty factor of the device is limited to 77.5% per manufacturer. See Section 7.7 and 7.15 for the time domain plot and calculation for the duty factor of the device.

802.15.4 Notes:

1. The manufacturer declared that the maximum source-based duty cycle of 802.15.4 mode is permanently limited to 60%. SAR measurement for 802.15.4 is evaluated at a higher duty cycle of 100% and scaled down to 60%. See Section 7.10 for the time domain plot for the duty factor of the device at the maximum source-based duty cycle of 60% and at the test mode during SAR measurement of 100%.

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9.11 Power Density Data

MEASUREMENT RESULTS																								
Frequency (MHz)	Channel	Mode	Service	Bandwidth (MHz)	Maximum Allowed Power (dBm)	Conducted Power (dBm)	Power Drift (dB)	Spacing (mm)	Antenna Config.	Variant	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 paPD (W/m²)	Scaled Normal paPD (W/m²)	Total paPD (W/m²)	Scaled Total paPD (W/m²)	Plot #
6665	143	802.11ax	OFDM	160	14.75	13.34	0.21	2	WF7a	V1	6JWGD	68.1	Back	97.74	0.25	2.490	1.554	1.384	1.023	0.394	0.867	0.564	1.241	
6025	15	802.11ax	OFDM	160	13.75	13.20	0.07	2	WF7a	V1	6JWGD	68.1	Top	97.74	0.041	1.420	1.554	1.135	1.023	3.400	6.135	3.920	7.073	
6345	79	802.11ax	OFDM	160	13.75	13.41	0.09	2	WF7a	V1	6JWGD	68.1	Top	97.74	0.041	1.560	1.554	1.081	1.023	3.540	6.084	4.120	7.080	
6505	111	802.11ax	OFDM	160	13.00	12.52	-0.02	2	WF7a	V1	6JWGD	68.1	Top	97.74	0.041	1.550	1.554	1.117	1.023	3.450	6.126	3.980	7.067	
6665	143	802.11ax	OFDM	160	14.75	13.34	-0.08	2	WF7a	V1	6JWGD	68.1	Top	97.74	0.041	1.360	1.554	1.384	1.023	2.840	6.249	3.220	7.085	
6985	207	802.11ax	OFDM	160	13.75	12.99	-0.01	2	WF7a	V1	6JWGD	68.1	Top	97.74	0.041	1.530	1.554	1.191	1.023	3.060	5.794	3.740	7.081	
6665	143	802.11ax	OFDM	160	14.75	13.34	-0.08	2	WF7a	V1	6JWGD	68.1	Bottom	97.74	0.25	2.190	1.554	1.384	1.023	0.274	0.603	0.281	0.618	
6665	143	802.11ax	OFDM	160	14.75	13.34	-0.04	2	WF7a	V1	6JWGD	68.1	Left	97.74	0.25	2.290	1.554	1.384	1.023	0.287	0.631	0.294	0.647	
6665	143	802.11ax	OFDM	160	14.75	13.34	0.17	2	WF7a	V1	6JWGD	68.1	Right	97.74	0.25	3.670	1.554	1.384	1.023	0.453	0.997	0.459	1.010	
6665	143	802.11ax	OFDM	160	14.75	13.34	0.04	9	WF7a	V1	6JWGD	68.1	Back	97.74	0.25	1.510	1.554	1.384	1.023	0.324	0.713	0.351	0.772	
6665	143	802.11ax	OFDM	160	14.75	13.34	0.06	9	WF7a	V1	6JWGD	68.1	Top	97.74	0.041	0.582	1.554	1.384	1.023	0.798	1.756	1.250	2.750	
6025	15	802.11ax	OFDM	160	16.25	15.04	0.10	2	WF7b	V2	W78YJ	68.1	Back	97.74	0.25	3.740	1.554	1.050	1.023	0.657	1.113	0.581	1.137	
6025	15	802.11ax	OFDM	160	16.25	15.04	-0.03	2	WF7b	V2	W78YJ	68.1	Top	97.74	0.041	1.470	1.554	1.050	1.023	3.780	6.310	4.210	7.027	
6345	79	802.11ax	OFDM	160	15.50	14.30	-0.04	2	WF7b	V2	W78YJ	68.1	Top	97.74	0.041	1.570	1.554	1.318	1.023	2.510	5.259	3.350	7.019	
6505	111	802.11ax	OFDM	160	14.25	13.53	-0.04	2	WF7b	V2	W78YJ	68.1	Top	97.74	0.041	1.140	1.554	1.180	1.023	2.160	4.052	2.360	4.427	
6665	143	802.11ax	OFDM	160	16.00	15.34	0.07	2	WF7b	V2	W78YJ	68.1	Top	97.74	0.041	1.780	1.554	1.164	1.023	3.410	6.310	3.830	7.087	
6985	207	802.11ax	OFDM	160	15.25	14.38	-0.06	2	WF7b	V2	W78YJ	68.1	Top	97.74	0.041	0.968	1.554	1.222	1.023	1.710	3.322	1.980	3.846	
6025	15	802.11ax	OFDM	160	16.25	15.04	0.06	2	WF7b	V2	W78YJ	68.1	Bottom	97.74	0.25	1.020	1.554	1.050	1.023	0.205	0.342	0.210	0.351	
6025	15	802.11ax	OFDM	160	16.25	15.04	0.11	2	WF7b	V2	W78YJ	68.1	Left	97.74	0.25	0.874	1.554	1.050	1.023	0.847	1.414	0.898	1.499	
6025	15	802.11ax	OFDM	160	16.25	15.04	0.07	2	WF7b	V2	W78YJ	68.1	Right	97.74	0.25	1.980	1.554	1.050	1.023	0.257	0.429	0.264	0.441	
6025	15	802.11ax	OFDM	160	16.25	15.04	0.03	9.95	WF7b	V2	W78YJ	68.1	Left	97.74	0.25	0.831	1.554	1.050	1.023	0.373	0.623	0.408	0.681	
6665	143	802.11ax	OFDM	160	16.00	15.34	0.14	9	WF7b	V2	W78YJ	68.1	Top	97.74	0.041	0.870	1.554	1.164	1.023	0.981	1.815	1.020	1.887	
6345	79	802.11ax	OFDM	160	12.75	12.43	0.16	2	WF2a	V1	6JWGD	68.1	Back	97.74	0.25	3.340	1.554	1.076	1.023	0.742	1.269	0.803	1.374	
6345	79	802.11ax	OFDM	160	12.75	12.43	0.08	2	WF2a	V1	6JWGD	68.1	Top	97.74	0.25	3.940	1.554	1.076	1.023	0.648	1.108	0.652	1.115	
6025	15	802.11ax	OFDM	160	11.75	11.62	0.00	2	WF2a	V1	6JWGD	68.1	Bottom	97.74	0.041	1.530	1.554	1.030	1.023	3.870	6.337	4.330	7.090	A8
6345	79	802.11ax	OFDM	160	12.75	12.43	-0.01	2	WF2a	V1	6JWGD	68.1	Bottom	97.74	0.041	1.370	1.554	1.076	1.023	3.590	6.141	4.110	7.030	
6505	111	802.11ax	OFDM	160	12.75	12.01	-0.20	2	WF2a	V1	6JWGD	68.1	Bottom	97.74	0.041	1.450	1.554	1.186	1.023	3.330	6.278	3.760	7.089	
6665	143	802.11ax	OFDM	160	12.25	11.60	-0.10	2	WF2a	V1	6JWGD	68.1	Bottom	97.74	0.041	1.560	1.554	1.161	1.023	3.430	6.331	3.840	7.087	
6985	207	802.11ax	OFDM	160	11.75	11.47	-0.04	2	WF2a	V1	6JWGD	68.1	Bottom	97.74	0.041	1.710	1.554	1.067	1.023	3.650	6.191	4.180	7.090	
6345	79	802.11ax	OFDM	160	12.75	12.43	-0.03	2	WF2a	V1	6JWGD	68.1	Left	97.74	0.25	0.964	1.554	1.076	1.023	0.190	0.325	0.200	0.342	
6345	79	802.11ax	OFDM	160	12.75	12.43	-0.04	2	WF2a	V1	6JWGD	68.1	Right	97.74	0.25	1.770	1.554	1.076	1.023	0.249	0.426	0.251	0.429	
6345	79	802.11ax	OFDM	160	12.75	12.43	0.09	9.45	WF2a	V1	6JWGD	68.1	Back	97.74	0.25	1.310	1.554	1.076	1.023	0.269	0.460	0.304	0.520	
6025	15	802.11ax	OFDM	160	11.75	11.62	0.04	9.95	WF2a	V1	6JWGD	68.1	Bottom	97.74	0.041	0.791	1.554	1.030	1.023	1.350	2.211	1.640	2.685	
47 CFR §1.1319 - SAFETY LIMIT Spatial Average Uncontrolled Exposure / General Population												Power Density 10 W/m² averaged over 4 cm²												

9.12 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 $\lambda/4$.

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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.

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10 SAR MEASUREMENT VARIABILITY

10.1 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 10-1
Body SAR Measurement Variability Results

BODY VARIABILITY RESULTS													
Band	FREQUENCY		Mode	Service	Ant	Data Rate (Mbps)	Side	Spacing	Measured SAR (1g)	1st Repeated SAR (1g)	Ratio	2nd Repeated SAR (1g)	Ratio
	MHz	Ch.							(W/kg)	(W/kg)		(W/kg)	
2450	2475	25	802.15.4, N/A MHz Bandwidth	CW	Ant WF2b	1.0	Right	0 mm	1.400	1.360	1.03	N/A	N/A
5250	5230	46	5 GHz WIFV IEEE 802.11n, 40 MHz Bandwidth	OFDM	Ant WF7a	13.5	Top	0mm	0.873	0.845	1.03	N/A	N/A
5600	5610	122	5 GHz WIFV IEEE 802.11ac, 80 MHz Bandwidth	OFDM	Ant WF7a	29.3	Top	0mm	0.846	0.834	1.01	N/A	N/A
5750	5755	151	5 GHz WIFV IEEE 802.11n, 40 MHz Bandwidth	OFDM	Ant WF7b	13.5	Top	0mm	0.835	0.795	1.05	N/A	N/A
6500	6985	207	6 GHz WIFV IEEE 802.11ax, 160 MHz Bandwidth	OFDM	Ant WF7a	68.1	Top	0 mm	1.010	1.010	1.00	N/A	N/A
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population									Body 1.6 W/kg (mW/g) averaged over 1 gram				

10.2 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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11 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	3/25/2024	Annual	3/25/2025	MY47270002
Agilent	N5182A	MXG Vector Signal Generator	7/9/2024	Annual	7/9/2025	MY48180366
Agilent	N5182A	MXG Vector Signal Generator	3/7/2024	Annual	3/7/2025	MY47420603
Agilent	8753ES	S-Parameter Vector Network Analyzer	1/10/2024	Annual	1/10/2025	MY40001472
Agilent	8753ES	S-Parameter Vector Network Analyzer	9/25/2024	Annual	9/25/2025	MY40003841
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	7/15/2024	Annual	7/15/2025	1138001
Anritsu	ML2496A	Power Meter	6/24/2024	Annual	6/24/2025	1840005
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
Anritsu	MA24106A	USB Power Sensor	7/10/2024	Annual	7/10/2025	1827530
Anritsu	MA24106A	USB Power Sensor	4/15/2024	Annual	4/15/2025	1827528
Mini-Circuits	PWR-4GHS	USB Power Sensor	6/12/2024	Annual	6/12/2025	12001070013
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	4/15/2024	Biennial	4/15/2026	240310282
Control Company	S66279	Therm./ Clock/ Humidity Monitor	2/16/2024	Biennial	2/16/2026	240140051
Mitutoyo	500-196-30	CD-6"ASX 6inch Digital Caliper	2/16/2022	Triennial	2/16/2025	A20238413
Keysight Technologies	N9020A	MXA Signal Analyzer	7/8/2024	Annual	7/8/2025	MY48010233
Agilent	N9020A	MXA Signal Analyzer	6/14/2024	Annual	6/14/2025	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	7/10/2024	Annual	7/10/2025	31634
Mini-Circuits	BW-N20W5+	DC to 18 GHz Precision Fixed 20 dB Attenuator	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
Seekonk	NC-100	Torque Wrench	CBT	N/A	CBT	22217
Seekonk	NC-100	Torque Wrench	4/2/2024	Biennial	4/2/2026	1262
SPEAG	DAK-3.5	Dielectric Assessment Kit	11/5/2024	Annual	11/5/2025	1277
SPEAG	DAKS-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)	3/11/2024	Annual	3/11/2025	1102
SPEAG	5G Verification Source 10GHz	10GHz System Verification Antenna	8/6/2024	Annual	8/6/2025	1004
SPEAG	CLA-13	Confined Loop Antenna	11/11/2024	Annual	11/11/2025	1004
SPEAG	D2450V2	2450 MHz SAR Dipole	5/11/2022	Triennial	5/11/2025	750
SPEAG	D5GHzV2	5 GHz SAR Dipole	11/8/2024	Annual	11/8/2025	1066
SPEAG	D6.5GHzV2	6.5 GHz SAR Dipole	10/10/2024	Annual	10/10/2025	1019
SPEAG	DAE4	Dasy Data Acquisition Electronics	9/4/2024	Annual	9/4/2025	1684
SPEAG	DAE4	Dasy Data Acquisition Electronics	5/8/2024	Annual	5/8/2025	701
SPEAG	DAE4	Dasy Data Acquisition Electronics	2/9/2024	Annual	2/9/2025	467
SPEAG	DAE4	Dasy Data Acquisition Electronics	10/9/2024	Annual	10/9/2025	1333
SPEAG	DAE4	Dasy Data Acquisition Electronics	9/4/2024	Annual	9/4/2025	1403
SPEAG	DAE4	Dasy Data Acquisition Electronics	9/3/2024	Annual	9/3/2025	1646
SPEAG	DAE4	Dasy Data Acquisition Electronics	3/6/2024	Annual	3/6/2025	534
SPEAG	EUmmWV4	mmWave Probe	4/8/2024	Annual	4/8/2025	9487
SPEAG	EX3DV4	SAR Probe	9/9/2024	Annual	9/9/2025	3949
SPEAG	EX3DV4	SAR Probe	5/13/2024	Annual	5/13/2025	7416
SPEAG	EX3DV4	SAR Probe	2/9/2024	Annual	2/9/2025	7427
SPEAG	EX3DV4	SAR Probe	2/9/2024	Annual	2/9/2025	7308
SPEAG	EX3DV4	SAR Probe	9/9/2024	Annual	9/9/2025	7639
SPEAG	EX3DV4	SAR Probe	9/12/2024	Annual	9/12/2025	7782

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.

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12 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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13 CONCLUSION

13.1 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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