



# Element Materials Technology

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## SAR EVALUATION REPORT

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

**Date of Testing:**  
05/20/2024 – 06/27/2024  
**Test Report Issue Date:**  
09/04/2024  
**Test Site/Location:**  
Element, Morgan Hill, CA, USA  
**Document Serial No.:**  
1C2405200017-01.BCG (R2)

**FCC ID:** BCGA2993

**APPLICANT:** APPLE, INC.

**DUT Type:** Tablet Device  
**Application Type:** Certification  
**FCC Rule Part(s):** CFR §2.1093  
**Models:** A2993

Equipment Class	Band & Mode	Tx Frequency	SAR
			1g Body (W/kg)
DTS	2.4 GHz WiFi	2412 - 2472 MHz	1.13
NII	5 GHz WiFi	U-NII-1: 5180 - 5280 MHz U-NII-2A: 5280 - 5320 MHz U-NII-2C: 5500 - 5720 MHz U-NII-3: 5745 - 5825 MHz U-NII-5: 6535 - 6415 MHz	1.19
6CD/EVL	6 GHz WiFi	U-NII-6: 6435 - 6515 MHz U-NII-7: 6535 - 6875 MHz U-NII-8: 6895 - 7115 MHz	0.65
DSS/DTS	2.4 GHz Bluetooth	2402 - 2480 MHz	0.61
DTS	802.15.4	2405 - 2475 MHz	0.73
NII	NB U-NII 1	5182 - 5265 MHz	0.60
NII	NB U-NII 3	5733 - 5844 MHz	0.98
DXX	wPT	13.56 MHz	<0.1
Simultaneous SAR per KDB 690783 D01v01103:			
Equipment Class	Band & Mode	Tx Frequency	AFD (W/m <sup>2</sup> )
6CD/EVL	6 GHz WiFi	U-NII-5: 5935 - 6415 MHz U-NII-7: 6535 - 6875 MHz U-NII-8: 6895 - 7115 MHz	6.08
Equipment Class	Band & Mode	Tx Frequency	Reported PD (W/m <sup>2</sup> )
6CD/EVL	6 GHz WiFi	U-NII-5: 5935 - 6415 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 1.8 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@mwfai.info.

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# 1 DEVICE UNDER TEST

## 1.1 Device Overview

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

## 1.2 Power Reduction for SAR

There is no power reduction used for any band/mode implemented in this device for SAR purposes.

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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SP Mode	Channel	IEEE 802.11 (Maximum in dBm) - Antenna WFST								
		SISO				MIMO				
		a (Maximum)	a (Nominal)	ax (SU) (Maximum)	ax (SU) (Nominal)	ax (SU) CDD (Maximum)	ax (SU) CDD (Nominal)	ax (SU) SDM (Maximum)	ax (SU) SDM (Nominal)	
6 GHz WiFi (20MHz BW) SP	2	NS	NS	NS	NS	NS	NS	NS	NS	
	1	13.25	11.75	13.25	11.75	13.25	11.75	13.25	11.75	
	5	13.25	11.75	13.25	11.75	13.25	11.75	13.25	11.75	
	9-29	13.25	11.75	13.25	11.75	13.25	11.75	13.25	11.75	
	33-61	13.25	11.75	13.25	11.75	13.25	11.75	13.25	11.75	
	65-85	12.25	10.75	12.25	10.75	12.25	10.75	12.25	10.75	
	89	12.25	10.75	12.25	10.75	12.25	10.75	12.25	10.75	
	93	12.25	10.75	12.25	10.75	12.25	10.75	12.25	10.75	
	97-113	NS	NS	NS	NS	NS	NS	NS	NS	
	117-181	11.25	9.75	11.25	9.75	11.25	9.75	11.25	9.75	
	185	NS	NS	NS	NS	NS	NS	NS	NS	
	189-225	NS	NS	NS	NS	NS	NS	NS	NS	
	229	NS	NS	NS	NS	NS	NS	NS	NS	
	233	NS	NS	NS	NS	NS	NS	NS	NS	
	6 GHz WiFi (40MHz BW) SP	3			13.25	11.75	13.25	11.75	13.25	11.75
11				13.25	11.75	13.25	11.75	13.25	11.75	
19-27				13.25	11.75	13.25	11.75	13.25	11.75	
35-59				13.25	11.75	13.25	11.75	13.25	11.75	
67-75				12.25	10.75	12.25	10.75	12.25	10.75	
83				12.25	10.75	12.25	10.75	12.25	10.75	
91				12.25	10.75	12.25	10.75	12.25	10.75	
99-107				NS	NS	NS	NS	NS	NS	
115				NS	NS	NS	NS	NS	NS	
123-179				11.25	9.75	11.25	9.75	11.25	9.75	
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			13.25	11.75	13.25	11.75	13.25	11.75
		23			13.25	11.75	13.25	11.75	13.25	11.75
	39-55			13.25	11.75	13.25	11.75	13.25	11.75	
	71			12.25	10.75	12.25	10.75	12.25	10.75	
	87			12.25	10.75	12.25	10.75	12.25	10.75	
	103			NS	NS	NS	NS	NS	NS	
	119			NS	NS	NS	NS	NS	NS	
	135-167			11.25	9.75	11.25	9.75	11.25	9.75	
	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			13.25	11.75	13.25	11.75	13.25	11.75	
	47			13.25	11.75	13.25	11.75	13.25	11.75	
	79			12.25	10.75	12.25	10.75	12.25	10.75	
	111			NS	NS	NS	NS	NS	NS	
	143			11.25	9.75	11.25	9.75	11.25	9.75	
	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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LP Mode	Channel	IEEE 802.11 (Maximum in dBm) - Antenna WFST								
		SISO				MIMO				
		a (Maximum)	a (Nominal)	ax (SU) (Maximum)	ax (SU) (Nominal)	ax (SU) CDD (Maximum)	ax (SU) CDD (Nominal)	ax (SU) SDM (Maximum)	ax (SU) SDM (Nominal)	
6 GHz WiFi (20MHz BW) LP	2	NS	NS	NS	NS	NS	NS	NS	NS	
	1	5.25	3.75	5.25	3.75	-0.25	-1.75	2.75	1.25	
	5	5.25	3.75	5.25	3.75	-0.25	-1.75	2.75	1.25	
	9-29	5.25	3.75	5.25	3.75	-0.25	-1.75	2.75	1.25	
	33-61	5.00	3.50	5.00	3.50	-0.25	-1.75	2.75	1.25	
	65-85	5.00	3.50	5.00	3.50	0.25	-1.25	3.25	1.75	
	89	5.00	3.50	5.00	3.50	0.25	-1.25	3.25	1.75	
	93	5.00	3.50	5.00	3.50	0.25	-1.25	3.25	1.75	
	97-113	5.00	3.50	5.00	3.50	0.00	-1.50	3.00	1.50	
	117-181	5.25	3.75	5.25	3.75	-0.25	-1.75	2.75	1.25	
	185	5.25	3.75	5.25	3.75	-0.25	-1.75	2.75	1.25	
	189-225	5.50	4.00	5.50	4.00	0.75	-0.75	3.50	2.00	
	229	5.50	4.00	5.50	4.00	0.75	-0.75	3.50	2.00	
	233	5.50	4.00	5.50	4.00	0.75	-0.75	3.50	2.00	
	6 GHz WiFi (40MHz BW) LP	3			8.25	6.75	2.75	1.25	5.75	4.25
		11			8.25	6.75	2.75	1.25	5.75	4.25
19-27				8.25	6.75	2.75	1.25	5.75	4.25	
35-59				8.00	6.50	2.75	1.25	5.75	4.25	
67-75				8.00	6.50	3.25	1.75	6.25	4.75	
83				8.00	6.50	3.25	1.75	6.25	4.75	
91				8.00	6.50	3.25	1.75	6.25	4.75	
99-107				8.00	6.50	3.00	1.50	6.00	4.50	
115				8.00	6.50	2.75	1.25	5.75	4.25	
123-179				8.25	6.75	2.75	1.25	5.75	4.25	
187				8.25	6.75	2.75	1.25	5.75	4.25	
195-219				8.50	7.00	3.75	2.25	6.50	5.00	
227				8.50	7.00	3.75	2.25	6.50	5.00	
6 GHz WiFi (80MHz BW) LP		7			11.25	9.75	5.75	4.25	8.75	7.25
	23			11.25	9.75	5.75	4.25	8.75	7.25	
	39-55			11.00	9.50	5.75	4.25	8.75	7.25	
	71			11.00	9.50	6.25	4.75	9.25	7.75	
	87			11.00	9.50	6.25	4.75	9.25	7.75	
	103			11.00	9.50	6.00	4.50	9.00	7.50	
	119			11.00	9.50	5.75	4.25	8.75	7.25	
	135-167			11.25	9.75	5.75	4.25	8.75	7.25	
	183			11.25	9.75	5.75	4.25	8.75	7.25	
	199			11.00	9.50	6.75	5.25	9.50	8.00	
6 GHz WiFi (160MHz BW) LP	215			11.00	9.50	6.75	5.25	9.50	8.00	
	15			13.25	11.75	8.25	6.75	11.25	9.75	
	47			13.25	11.75	8.25	6.75	11.25	9.75	
	79			12.25	10.75	8.75	7.25	11.75	10.25	
	111			12.00	10.50	8.25	6.75	11.25	9.75	
	143			11.25	9.75	8.25	6.75	11.25	9.75	
	175			11.25	9.75	8.25	6.75	11.25	9.75	
207			11.00	9.50	9.25	7.75	11.00	9.50		

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

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VLP Mode	Channel	IEEE 802.11 (Maximum in dBm) - Antenna WFST								
		SISO				MIMO				
		a (Maximum)	a (Nominal)	ax (SU) (Maximum)	ax (SU) (Nominal)	ax (SU) CDD (Maximum)	ax (SU) CDD (Nominal)	ax (SU) SDM (Maximum)	ax (SU) SDM (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	1.00	-0.50	1.00	-0.50	NS	NS	-1.25	-2.75	
	65-85	1.00	-0.50	1.00	-0.50	NS	NS	-0.75	-2.25	
	89	1.00	-0.50	1.00	-0.50	NS	NS	-0.75	-2.25	
	93	1.00	-0.50	1.00	-0.50	NS	NS	-0.75	-2.25	
	97-113	NS	NS	NS	NS	NS	NS	NS	NS	
	117-181	1.25	-0.25	1.25	-0.25	NS	NS	-1.25	-2.75	
	185	NS	NS	NS	NS	NS	NS	NS	NS	
	189-225	NS	NS	NS	NS	NS	NS	NS	NS	
	229	NS	NS	NS	NS	NS	NS	NS	NS	
	233	NS	NS	NS	NS	NS	NS	NS	NS	
	6 GHz WiFi (40MHz BW) 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		4.00	2.50	4.00	2.50	-1.25	-2.75	1.75	0.25	
67-75		4.00	2.50	4.00	2.50	-0.75	-2.25	2.25	0.75	
83		4.00	2.50	4.00	2.50	-0.75	-2.25	2.25	0.75	
91		4.00	2.50	4.00	2.50	-0.75	-2.25	2.25	0.75	
99-107		NS	NS	NS	NS	NS	NS	NS	NS	
115		NS	NS	NS	NS	NS	NS	NS	NS	
123-179		4.25	2.75	4.25	2.75	-1.25	-2.75	1.75	0.25	
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	
6 GHz WiFi (80MHz BW) VLP		7	NS	NS	NS	NS	NS	NS	NS	NS
		23	NS	NS	NS	NS	NS	NS	NS	NS
	39-55	7.00	5.50	7.00	5.50	1.75	0.25	4.75	3.25	
	71	7.00	5.50	7.00	5.50	2.25	0.75	5.25	3.75	
	87	7.00	5.50	7.00	5.50	2.25	0.75	5.25	3.75	
	103	NS	NS	NS	NS	NS	NS	NS	NS	
	119	NS	NS	NS	NS	NS	NS	NS	NS	
	135-167	7.25	5.75	7.25	5.75	1.75	0.25	4.75	3.25	
	183	NS	NS	NS	NS	NS	NS	NS	NS	
	199	NS	NS	NS	NS	NS	NS	NS	NS	
6 GHz WiFi (160MHz BW) VLP	15	NS	NS	NS	NS	NS	NS	NS	NS	
	47	9.50	8.00	9.50	8.00	4.25	2.75	7.25	5.75	
	79	9.50	8.00	9.50	8.00	4.75	3.25	7.75	6.25	
	111	NS	NS	NS	NS	NS	NS	NS	NS	
	143	9.75	8.25	9.75	8.25	4.25	2.75	7.25	5.75	
	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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SP Mode	Channel	IEEE 802.11 (Maximum in dBm) - Antenna WF2								
		SISO				MIMO				
		a (Maximum)	a (Nominal)	ax (SU) (Maximum)	ax (SU) (Nominal)	ax (SU) CDD (Maximum)	ax (SU) CDD (Nominal)	ax (SU) SDM (Maximum)	ax (SU) SDM (Nominal)	
6 GHz WiFi (20MHz BW) SP	2	NS	NS	NS	NS	NS	NS	NS	NS	
	1	13.00	11.50	13.00	11.50	13.00	11.50	13.00	11.50	
	5	13.00	11.50	13.00	11.50	13.00	11.50	13.00	11.50	
	9-29	13.00	11.50	13.00	11.50	13.00	11.50	13.00	11.50	
	33-61	13.00	11.50	13.00	11.50	13.00	11.50	13.00	11.50	
	65-85	13.50	12.00	13.50	12.00	13.50	12.00	13.50	12.00	
	89	13.50	12.00	13.50	12.00	13.50	12.00	13.50	12.00	
	93	13.50	12.00	13.50	12.00	13.50	12.00	13.50	12.00	
	97-113	NS	NS	NS	NS	NS	NS	NS	NS	
	117-181	13.25	11.75	13.25	11.75	13.25	11.75	13.25	11.75	
	185	NS	NS	NS	NS	NS	NS	NS	NS	
	189-225	NS	NS	NS	NS	NS	NS	NS	NS	
	229	NS	NS	NS	NS	NS	NS	NS	NS	
	233	NS	NS	NS	NS	NS	NS	NS	NS	
	6 GHz WiFi (40MHz BW) SP	3	NS	NS	NS	NS	NS	NS	NS	NS
11		13.00	11.50	13.00	11.50	13.00	11.50	13.00	11.50	
19-27		13.00	11.50	13.00	11.50	13.00	11.50	13.00	11.50	
35-59		13.00	11.50	13.00	11.50	13.00	11.50	13.00	11.50	
67-75		13.50	12.00	13.50	12.00	13.50	12.00	13.50	12.00	
83		13.50	12.00	13.50	12.00	13.50	12.00	13.50	12.00	
91		13.50	12.00	13.50	12.00	13.50	12.00	13.50	12.00	
99-107		NS	NS	NS	NS	NS	NS	NS	NS	
115		NS	NS	NS	NS	NS	NS	NS	NS	
123-179		13.25	11.75	13.25	11.75	13.25	11.75	13.25	11.75	
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	
6 GHz WiFi (80MHz BW) SP		7	NS	NS	NS	NS	NS	NS	NS	NS
		23	13.00	11.50	13.00	11.50	13.00	11.50	13.00	11.50
	39-55	13.00	11.50	13.00	11.50	13.00	11.50	13.00	11.50	
	71	13.50	12.00	13.50	12.00	13.50	12.00	13.50	12.00	
	87	13.50	12.00	13.50	12.00	13.50	12.00	13.50	12.00	
	103	NS	NS	NS	NS	NS	NS	NS	NS	
	119	NS	NS	NS	NS	NS	NS	NS	NS	
	135-167	13.50	12.00	13.50	12.00	13.50	12.00	13.50	12.00	
	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) SP	15	13.00	11.50	13.00	11.50	13.00	11.50	13.00	11.50	
	47	13.00	11.50	13.00	11.50	13.00	11.50	13.00	11.50	
	79	13.50	12.00	13.50	12.00	13.50	12.00	13.50	12.00	
	111	NS	NS	NS	NS	NS	NS	NS	NS	
	143	13.50	12.00	13.50	12.00	13.50	12.00	13.50	12.00	
	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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LP Mode	Channel	IEEE 802.11 (Maximum in dBm) - Antenna WF2							
		SISO				MIMO			
		a (Maximum)	a (Nominal)	ax (SU) (Maximum)	ax (SU) (Nominal)	ax (SU) CDD (Maximum)	ax (SU) CDD (Nominal)	ax (SU) SDM (Maximum)	ax (SU) SDM (Nominal)
6 GHz WiFi (20MHz BW) LP	2	NS	NS	NS	NS	NS	NS	NS	NS
	1	5.25	3.75	5.25	3.75	-0.25	-1.75	2.75	1.25
	5	5.25	3.75	5.25	3.75	-0.25	-1.75	2.75	1.25
	9-29	5.25	3.75	5.25	3.75	-0.25	-1.75	2.75	1.25
	33-61	5.00	3.50	5.00	3.50	-0.25	-1.75	2.75	1.25
	65-85	5.00	3.50	5.00	3.50	0.25	-1.25	3.25	1.75
	89	5.00	3.50	5.00	3.50	0.25	-1.25	3.25	1.75
	93	5.00	3.50	5.00	3.50	0.25	-1.25	3.25	1.75
	97-113	5.00	3.50	5.00	3.50	0.00	-1.50	3.00	1.50
	117-181	5.25	3.75	5.25	3.75	-0.25	-1.75	2.75	1.25
	185	5.25	3.75	5.25	3.75	-0.25	-1.75	2.75	1.25
	189-225	5.00	4.00	5.00	4.00	0.75	-0.75	3.50	2.00
	229	5.00	4.00	5.00	4.00	0.75	-0.75	3.50	2.00
	233	5.00	4.00	5.00	4.00	0.75	-0.75	3.50	2.00
	3			8.25	6.75	2.75	1.25	5.75	4.25
	6 GHz WiFi (40MHz BW) LP	11			8.25	6.75	2.75	1.25	5.75
19-27				8.25	6.75	2.75	1.25	5.75	4.25
35-59				8.00	6.50	2.75	1.25	5.75	4.25
67-75				8.00	6.50	3.25	1.75	6.25	4.75
83				8.00	6.50	3.25	1.75	6.25	4.75
91				8.00	6.50	3.25	1.75	6.25	4.75
99-107				8.00	6.50	3.00	1.50	6.00	4.50
115				8.00	6.50	2.75	1.25	5.75	4.25
123-179				8.25	6.75	2.75	1.25	5.75	4.25
187				8.25	6.75	2.75	1.25	5.75	4.25
195-219				8.50	7.00	3.75	2.25	6.50	5.00
227				8.50	7.00	3.75	2.25	6.50	5.00
6 GHz WiFi (80MHz BW) LP	7			11.25	9.75	5.75	4.25	8.75	7.25
	23			11.25	9.75	5.75	4.25	8.75	7.25
	39-55			11.00	9.50	5.75	4.25	8.75	7.25
	71			11.00	9.50	6.25	4.75	9.25	7.75
	87			11.00	9.50	6.25	4.75	9.25	7.75
	103			11.00	9.50	6.00	4.50	9.00	7.50
	119			11.00	9.50	5.75	4.25	8.75	7.25
	135-167			11.25	9.75	5.75	4.25	8.75	7.25
	183			11.25	9.75	5.75	4.25	8.75	7.25
	199			11.50	10.00	6.75	5.25	9.50	8.00
6 GHz WiFi (160MHz BW) LP	215			11.50	10.00	6.75	5.25	9.50	8.00
	15			13.00	11.50	8.25	6.75	11.25	9.75
	47			13.00	11.50	8.25	6.75	11.25	9.75
	79			13.50	12.00	8.75	7.25	11.75	10.25
	111			13.25	11.75	8.25	6.75	11.25	9.75
	143			13.50	12.00	8.25	6.75	11.25	9.75
	175			13.50	12.00	8.25	6.75	11.25	9.75
207			13.00	11.50	9.25	7.75	12.00	10.50	

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

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VLP Mode	Channel	IEEE 802.11 (Maximum in dBm) - Antenna WF2								
		SISO				MIMO				
		a (Maximum)	a (Nominal)	ax (SU) (Maximum)	ax (SU) (Nominal)	ax (SU) CDD (Maximum)	ax (SU) CDD (Nominal)	ax (SU) SDM (Maximum)	ax (SU) SDM (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	1.00	-0.50	1.00	-0.50	NS	NS	-1.25	-2.75	
	65-85	1.00	-0.50	1.00	-0.50	NS	NS	-0.75	-2.25	
	89	1.00	-0.50	1.00	-0.50	NS	NS	-0.75	-2.25	
	93	1.00	-0.50	1.00	-0.50	NS	NS	-0.75	-2.25	
	97-113	NS	NS	NS	NS	NS	NS	NS	NS	
	117-181	1.25	-0.25	1.25	-0.25	NS	NS	-1.25	-2.75	
	185	NS	NS	NS	NS	NS	NS	NS	NS	
	189-225	NS	NS	NS	NS	NS	NS	NS	NS	
	229	NS	NS	NS	NS	NS	NS	NS	NS	
	233	NS	NS	NS	NS	NS	NS	NS	NS	
	6 GHz WiFi (40MHz BW) 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		4.00	2.50	4.00	2.50	-1.25	-2.75	1.75	0.25	
67-75		4.00	2.50	4.00	2.50	-0.75	-2.25	2.25	0.75	
83		4.00	2.50	4.00	2.50	-0.75	-2.25	2.25	0.75	
91		4.00	2.50	4.00	2.50	-0.75	-2.25	2.25	0.75	
99-107		NS	NS	NS	NS	NS	NS	NS	NS	
115		NS	NS	NS	NS	NS	NS	NS	NS	
123-179		4.25	2.75	4.25	2.75	-1.25	-2.75	1.75	0.25	
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	
6 GHz WiFi (80MHz BW) VLP		7	NS	NS	NS	NS	NS	NS	NS	NS
		23	NS	NS	NS	NS	NS	NS	NS	NS
	39-55	7.00	5.50	7.00	5.50	1.75	0.25	4.75	3.25	
	71	7.00	5.50	7.00	5.50	2.25	0.75	5.25	3.75	
	87	7.00	5.50	7.00	5.50	2.25	0.75	5.25	3.75	
	103	NS	NS	NS	NS	NS	NS	NS	NS	
	119	NS	NS	NS	NS	NS	NS	NS	NS	
	135-167	7.25	5.75	7.25	5.75	1.75	0.25	4.75	3.25	
	183	NS	NS	NS	NS	NS	NS	NS	NS	
	199	NS	NS	NS	NS	NS	NS	NS	NS	
6 GHz WiFi (160MHz BW) VLP	15	NS	NS	NS	NS	NS	NS	NS	NS	
	47	9.50	8.00	9.50	8.00	4.25	2.75	7.25	5.75	
	79	9.50	8.00	9.50	8.00	4.75	3.25	7.75	6.25	
	111	NS	NS	NS	NS	NS	NS	NS	NS	
	143	9.75	8.25	9.75	8.25	4.25	2.75	7.25	5.75	
	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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### 1.3.2 Bluetooth Maximum Output Power

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna WF8	Modulated Average (iPA) Single Tx Chain (dBm) Antenna WF8
Bluetooth BDR	Maximum	19.50	12.50
	Nominal	18.00	11.00
Bluetooth EDR	Maximum	15.00	8.50
	Nominal	13.50	7.00
Bluetooth LE	Maximum	19.50	12.50
	Nominal	18.00	11.00
Bluetooth HDR4	Maximum	14.50	6.00
	Nominal	13.00	4.50
Bluetooth HDR8	Maximum	14.50	6.00
	Nominal	13.00	4.50
Mode / Band		Modulated Average (ePA) TXBF (dBm) Antenna WF8	Modulated Average (iPA) TXBF (dBm) Antenna WF8
Bluetooth BDR	Maximum	17.00	12.50
	Nominal	15.50	11.00
Bluetooth EDR	Maximum	13.50	8.50
	Nominal	12.00	7.00
Bluetooth LE	Maximum	19.50	12.50
	Nominal	18.00	11.00
Bluetooth HDR4	Maximum	14.50	6.00
	Nominal	13.00	4.50
Bluetooth HDR8	Maximum	14.50	6.00
	Nominal	13.00	4.50

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 WF7	Modulated Average (iPA) Single Tx Chain (dBm) Antenna WF7
Bluetooth BDR	Maximum	<b>19.50</b>	<b>13.00</b>
	Nominal	<b>18.00</b>	<b>11.50</b>
Bluetooth EDR	Maximum	<b>15.00</b>	<b>9.00</b>
	Nominal	<b>13.50</b>	<b>7.50</b>
Bluetooth LE	Maximum	<b>19.50</b>	<b>13.00</b>
	Nominal	<b>18.00</b>	<b>11.50</b>
Bluetooth HDR4	Maximum	<b>14.50</b>	<b>6.50</b>
	Nominal	<b>13.00</b>	<b>5.00</b>
Bluetooth HDR8	Maximum	<b>14.50</b>	<b>6.50</b>
	Nominal	<b>13.00</b>	<b>5.00</b>
Mode / Band		Modulated Average (ePA) TXBF (dBm) Antenna WF7	Modulated Average (iPA) TXBF (dBm) Antenna WF7
Bluetooth BDR	Maximum	<b>17.00</b>	<b>13.00</b>
	Nominal	<b>15.50</b>	<b>11.50</b>
Bluetooth EDR	Maximum	<b>13.50</b>	<b>9.00</b>
	Nominal	<b>12.00</b>	<b>7.50</b>
Bluetooth LE	Maximum	<b>19.50</b>	<b>13.00</b>
	Nominal	<b>18.00</b>	<b>11.50</b>
Bluetooth HDR4	Maximum	<b>14.50</b>	<b>6.50</b>
	Nominal	<b>13.00</b>	<b>5.00</b>
Bluetooth HDR8	Maximum	<b>14.50</b>	<b>6.50</b>
	Nominal	<b>13.00</b>	<b>5.00</b>

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

Mode / Band		Modulated Average (iPA) Single Tx Chain (dBm) Antenna WF2
Bluetooth BDR	Maximum	<b>12.00</b>
	Nominal	<b>10.50</b>
Bluetooth EDR	Maximum	<b>8.00</b>
	Nominal	<b>6.50</b>
Bluetooth LE	Maximum	<b>12.00</b>
	Nominal	<b>10.50</b>
Bluetooth HDR4	Maximum	<b>5.50</b>
	Nominal	<b>4.00</b>
Bluetooth HDR8	Maximum	<b>5.50</b>
	Nominal	<b>4.00</b>

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### 1.3.3 802.15.4 Maximum Output Power

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna WF8	Modulated Average (iPA) Single Tx Chain (dBm) Antenna WF8
802.15.4	Maximum	<b>20.50</b>	<b>12.50</b>
	Nominal	<b>19.00</b>	<b>11.00</b>

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna WF7	Modulated Average (iPA) Single Tx Chain (dBm) Antenna WF7
802.15.4	Maximum	<b>20.50</b>	<b>13.00</b>
	Nominal	<b>19.00</b>	<b>11.50</b>

Mode / Band		Modulated Average (iPA) Single Tx Chain (dBm) Antenna WF2
802.15.4	Maximum	<b>12.00</b>
	Nominal	<b>10.50</b>

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### 1.3.4 NB UNII Maximum Output Power

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna WF5T	Modulated Average (iPA) Single Tx Chain (dBm) Antenna WF5T
NB UNII-1 BDR	Maximum	<b>10.00</b>	<b>8.00</b>
	Nominal	<b>8.50</b>	<b>6.50</b>
NB UNII-1 HDR4	Maximum	<b>12.50</b>	<b>1.50</b>
	Nominal	<b>11.00</b>	<b>0.00</b>
NB UNII-1 HDR8	Maximum	<b>14.50</b>	<b>1.50</b>
	Nominal	<b>13.00</b>	<b>0.00</b>
Mode / Band		Modulated Average (ePA) TXBF (dBm) Antenna WF5T	Modulated Average (iPA) TXBF (dBm) Antenna WF5T
NB UNII-1 BDR	Maximum	<b>7.00</b>	<b>7.00</b>
	Nominal	<b>5.50</b>	<b>5.50</b>
NB UNII-1 HDR4	Maximum	<b>9.50</b>	<b>1.50</b>
	Nominal	<b>8.00</b>	<b>0.00</b>
NB UNII-1 HDR8	Maximum	<b>12.00</b>	<b>1.50</b>
	Nominal	<b>10.50</b>	<b>0.00</b>

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

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna WF5T	Modulated Average (iPA) Single Tx Chain (dBm) Antenna WF5T
NB UNII-3 BDR	Maximum	<b>14.50</b>	<b>8.00</b>
	Nominal	<b>13.00</b>	<b>6.50</b>
NB UNII-3 HDR4	Maximum	<b>14.50</b>	<b>1.50</b>
	Nominal	<b>13.00</b>	<b>0.00</b>
NB UNII-3 HDR8	Maximum	<b>14.50</b>	<b>1.50</b>
	Nominal	<b>13.00</b>	<b>0.00</b>
Mode / Band		Modulated Average (ePA) TXBF (dBm) Antenna WF5T	Modulated Average (iPA) TXBF (dBm) Antenna WF5T
NB UNII-3 BDR	Maximum	<b>14.50</b>	<b>8.00</b>
	Nominal	<b>13.00</b>	<b>6.50</b>
NB UNII-3 HDR4	Maximum	<b>14.50</b>	<b>1.50</b>
	Nominal	<b>13.00</b>	<b>0.00</b>
NB UNII-3 HDR8	Maximum	<b>14.50</b>	<b>1.50</b>
	Nominal	<b>13.00</b>	<b>0.00</b>

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 WF2	Modulated Average (iPA) Single Tx Chain (dBm) Antenna WF2
NB UNII-1 BDR	Maximum	<b>10.00</b>	<b>8.00</b>
	Nominal	<b>8.50</b>	<b>6.50</b>
NB UNII-1 HDR4	Maximum	<b>12.50</b>	<b>1.50</b>
	Nominal	<b>11.00</b>	<b>0.00</b>
NB UNII-1 HDR8	Maximum	<b>14.50</b>	<b>1.50</b>
	Nominal	<b>13.00</b>	<b>0.00</b>
Mode / Band		Modulated Average (ePA) TXBF (dBm) Antenna WF2	Modulated Average (iPA) TXBF (dBm) Antenna WF2
NB UNII-1 BDR	Maximum	<b>7.00</b>	<b>7.00</b>
	Nominal	<b>5.50</b>	<b>5.50</b>
NB UNII-1 HDR4	Maximum	<b>9.50</b>	<b>1.50</b>
	Nominal	<b>8.00</b>	<b>0.00</b>
NB UNII-1 HDR8	Maximum	<b>12.00</b>	<b>1.50</b>
	Nominal	<b>10.50</b>	<b>0.00</b>

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

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna WF2	Modulated Average (iPA) Single Tx Chain (dBm) Antenna WF2
NB UNII-3 BDR	Maximum	<b>14.50</b>	<b>8.00</b>
	Nominal	<b>13.00</b>	<b>6.50</b>
NB UNII-3 HDR4	Maximum	<b>14.50</b>	<b>1.50</b>
	Nominal	<b>13.00</b>	<b>0.00</b>
NB UNII-3 HDR8	Maximum	<b>14.50</b>	<b>1.50</b>
	Nominal	<b>13.00</b>	<b>0.00</b>
Mode / Band		Modulated Average (ePA) TXBF (dBm) Antenna WF2	Modulated Average (iPA) TXBF (dBm) Antenna WF2
NB UNII-3 BDR	Maximum	<b>14.50</b>	<b>8.00</b>
	Nominal	<b>13.00</b>	<b>6.50</b>
NB UNII-3 HDR4	Maximum	<b>14.50</b>	<b>1.50</b>
	Nominal	<b>13.00</b>	<b>0.00</b>
NB UNII-3 HDR8	Maximum	<b>14.50</b>	<b>1.50</b>
	Nominal	<b>13.00</b>	<b>0.00</b>

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 WF7 + 2.4 GHz WI-FI Antenna WF8 + wPT	Yes
6	802.15.4 Antenna WF7 + 2.4 GHz WI-FI Antenna WF8 + 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
17	802.15.4 Dedicated Antenna WF2 + 2.4 GHz WI-FI Antenna WF8 + wPT	Yes
18	2.4 GHz Bluetooth Dedicated Antenna WF2 + 2.4 GHz WI-FI Antenna WF8 + 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.
- 2.4GHz 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 STBC 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-2A was evaluated for Antenna WF5T and Antenna WF2. Additional testing for for U-NII-1 Antenna WF5T and Antenna WF2 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 4cm<sup>2</sup> 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= $\lambda$ /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 ( $\rho$ ). 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:

- $\sigma$  = conductivity of the tissue-simulating material (S/m)
- $\rho$  = mass density of the tissue-simulating material (kg/m<sup>3</sup>)
- 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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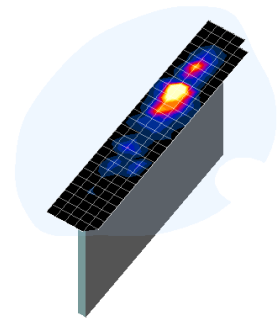
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## 3 DOSIMETRIC ASSESSMENT

### 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 $\Delta z_{\text{zoom}}(n)$	Graded Grid		
				$\Delta z_{\text{zoom}}(1)^*$	$\Delta z_{\text{zoom}}(n>1)^*$	
≤ 2 GHz	≤ 15	≤ 8	≤ 5	≤ 4	≤ 1.5* $\Delta z_{\text{zoom}}(n-1)$	≥ 30
2-3 GHz	≤ 12	≤ 5	≤ 5	≤ 4	≤ 1.5* $\Delta z_{\text{zoom}}(n-1)$	≥ 30
3-4 GHz	≤ 12	≤ 5	≤ 4	≤ 3	≤ 1.5* $\Delta z_{\text{zoom}}(n-1)$	≥ 28
4-5 GHz	≤ 10	≤ 4	≤ 3	≤ 2.5	≤ 1.5* $\Delta z_{\text{zoom}}(n-1)$	≥ 25
5-6 GHz	≤ 10	≤ 4	≤ 2	≤ 2	≤ 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)
<b>Peak Spatial Average SAR</b> Head	1.6	8.0
<b>Whole Body SAR</b>	0.08	0.4
<b>Peak Spatial Average SAR</b> Hands, Feet, Ankle, Wrists, etc.	4.0	20

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

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## 5.4 RF Exposure Limits for Frequencies above 6 GHz

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

Peak Spatially Averaged Power Density was evaluated over a circular area of 4 cm<sup>2</sup> 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**

<b>Human Exposure to Radiofrequency (RF) Radiation Limits</b>		
<b>Frequency Range [MHz]</b>	<b>Power Density [mW/cm<sup>2</sup>]</b>	<b>Average Time [Minutes]</b>
(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/cm<sup>2</sup> is 10 W/m<sup>2</sup>

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

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## 6.2.4 2.4 GHz SAR Test Requirements

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

- 1) When the reported SAR of the highest measured maximum output power channel for the exposure configuration is  $\leq 0.8$  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  $\leq 0.8$  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  $\leq 1.2$  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  $\leq 1.2$  W/kg, no additional SAR tests for the subsequent test configurations are required. When 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds above.

## 6.2.8 MIMO SAR considerations

Per KDB Publication 248227 D01v02r02, the simultaneous SAR provisions in KDB Publication 447498 D04v01 should be applied to determine simultaneous transmission SAR test exclusion for WIFI MIMO. If the sum of 1g single transmission chain SAR measurements is  $< 1.6$  W/kg, no additional SAR measurements for MIMO are required. Alternatively, SAR for MIMO can be measured with all antennas transmitting simultaneously at the specified maximum output power of MIMO operation. When 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds above.

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# 7 RF CONDUCTED POWERS

## 7.1 2.4 GHz WLAN Maximum Time-Averaged Conducted Powers

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

2.4GHz WIFI (20MHz 802.11b SISO ANT WF8)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	20.30
2437	6		20.28
2462	11		20.73
2.4GHz WIFI (20MHz 802.11g SISO ANT WF8)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	14.43
2437	6		19.91
2462	11		15.60
2.4GHz WIFI (20MHz 802.11n SISO ANT WF8)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	14.55
2437	6		19.90
2462	11		15.60
2.4GHz WIFI (20MHz 802.11ax SISO ANT WF8)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	14.53
2437	6		19.81
2462	11		14.92

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**Table 7-2**  
**2.4 GHz WLAN Maximum Average RF Power – Antenna WF8, Variant 2**

<b>2.4GHz WIFI (20MHz 802.11b SISO ANT WF8)</b>			
<b>Freq. [MHz]</b>	<b>Channel</b>	<b>Detector</b>	<b>Conducted Power [dBm]</b>
2412	1	Average	20.43
2437	6		20.24
2462	11		20.46
<b>2.4GHz WIFI (20MHz 802.11g SISO ANT WF8)</b>			
<b>Freq. [MHz]</b>	<b>Channel</b>	<b>Detector</b>	<b>Conducted Power [dBm]</b>
2412	1	Average	14.45
2437	6		19.69
2462	11		15.61
<b>2.4GHz WIFI (20MHz 802.11n SISO ANT WF8)</b>			
<b>Freq. [MHz]</b>	<b>Channel</b>	<b>Detector</b>	<b>Conducted Power [dBm]</b>
2412	1	Average	14.47
2437	6		19.38
2462	11		15.59
<b>2.4GHz WIFI (20MHz 802.11ax SISO ANT WF8)</b>			
<b>Freq. [MHz]</b>	<b>Channel</b>	<b>Detector</b>	<b>Conducted Power [dBm]</b>
2412	1	Average	14.39
2437	6		19.75
2462	11		15.03

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**Table 7-3**  
**2.4 GHz WLAN Maximum Average RF Power – Antenna WF7, Variant 1**

<b>2.4GHz WIFI (20MHz 802.11b SISO ANT WF7)</b>			
<b>Freq. [MHz]</b>	<b>Channel</b>	<b>Detector</b>	<b>Conducted Power [dBm]</b>
2412	1	Average	21.40
2437	6		21.35
2462	11		21.20
<b>2.4GHz WIFI (20MHz 802.11g SISO ANT WF7)</b>			
<b>Freq. [MHz]</b>	<b>Channel</b>	<b>Detector</b>	<b>Conducted Power [dBm]</b>
2412	1	Average	14.71
2437	6		20.38
2462	11		15.55
<b>2.4GHz WIFI (20MHz 802.11n SISO ANT WF7)</b>			
<b>Freq. [MHz]</b>	<b>Channel</b>	<b>Detector</b>	<b>Conducted Power [dBm]</b>
2412	1	Average	14.53
2437	6		20.42
2462	11		15.56
<b>2.4GHz WIFI (20MHz 802.11ax SISO ANT WF7)</b>			
<b>Freq. [MHz]</b>	<b>Channel</b>	<b>Detector</b>	<b>Conducted Power [dBm]</b>
2412	1	Average	14.69
2437	6		20.47
2462	11		15.11

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**Table 7-4**  
**2.4 GHz WLAN Maximum Average RF Power – Antenna WF7, Variant 2**

<b>2.4GHz WIFI (20MHz 802.11b SISO ANT WF7)</b>			
<b>Freq. [MHz]</b>	<b>Channel</b>	<b>Detector</b>	<b>Conducted Power [dBm]</b>
2412	1	Average	20.98
2437	6		21.00
2462	11		21.21
<b>2.4GHz WIFI (20MHz 802.11g SISO ANT WF7)</b>			
<b>Freq. [MHz]</b>	<b>Channel</b>	<b>Detector</b>	<b>Conducted Power [dBm]</b>
2412	1	Average	14.46
2437	6		20.55
2462	11		15.58
<b>2.4GHz WIFI (20MHz 802.11n SISO ANT WF7)</b>			
<b>Freq. [MHz]</b>	<b>Channel</b>	<b>Detector</b>	<b>Conducted Power [dBm]</b>
2412	1	Average	14.55
2437	6		20.67
2462	11		15.42
<b>2.4GHz WIFI (20MHz 802.11ax SISO ANT WF7)</b>			
<b>Freq. [MHz]</b>	<b>Channel</b>	<b>Detector</b>	<b>Conducted Power [dBm]</b>
2412	1	Average	14.50
2437	6		20.62
2462	11		15.03

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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 WF5T, Variant 1

5GHz WIFI (80MHz 802.11ac SISO ANT WF5T)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5210	42	14.82
UNII-2A	5290	58	15.25
UNII-2C	5530	106	13.93
	5610	122	13.98
	5690	138	14.14
UNII-3	5775	155	14.65
5GHz WIFI (80MHz 802.11ax SISO ANT WF5T)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5210	42	13.05
UNII-2A	5290	58	14.79
UNII-2C	5530	106	13.67
	5610	122	13.90
	5690	138	14.02
UNII-3	5775	155	14.30

**Table 7-6**  
5 GHz WLAN Maximum Average RF Power – Antenna WF5T, Variant 2

5GHz WIFI (80MHz 802.11ac SISO ANT WF5T)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5210	42	14.71
UNII-2A	5290	58	15.20
UNII-2C	5530	106	13.71
	5610	122	13.73
	5690	138	14.00
UNII-3	5775	155	14.78
5GHz WIFI (80MHz 802.11ax SISO ANT WF5T)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5210	42	13.03
UNII-2A	5290	58	15.01
UNII-2C	5530	106	13.66
	5610	122	14.09
	5690	138	13.97
UNII-3	5775	155	14.16

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**Table 7-7  
5 GHz WLAN Maximum Average RF Power – Antenna WF2, Variant 1**

5GHz WIFI (40MHz 802.11n SISO ANT WF2)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	14.67
	5230	46	17.05
UNII-2A	5270	54	17.23
	5310	62	14.99
5GHz WIFI (80MHz 802.11ac SISO ANT WF2)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-2C	5530	106	13.92
	5610	122	16.08
	5690	138	16.02
UNII-3	5775	155	16.78
5GHz WIFI (40MHz 802.11ac SISO ANT WF2)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	14.65
	5230	46	17.07
UNII-2A	5270	54	16.95
	5310	62	15.02
5GHz WIFI (40MHz 802.11ax SISO ANT WF2)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	14.85
	5230	46	16.93
UNII-2A	5270	54	16.98
	5310	62	15.11
5GHz WIFI (80MHz 802.11ax SISO ANT WF2)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-2C	5530	106	13.78
	5610	122	16.02
	5690	138	16.07
UNII-3	5775	155	16.29

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**Table 7-8  
5 GHz WLAN Maximum Average RF Power – Antenna WF2, Variant 2**

5GHz WIFI (40MHz 802.11n SISO ANT WF2)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	14.80
	5230	46	16.95
UNII-2A	5270	54	17.11
	5310	62	15.03
5GHz WIFI (80MHz 802.11ac SISO ANT WF2)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-2C	5530	106	13.87
	5610	122	16.07
	5690	138	16.06
UNII-3	5775	155	16.95
5GHz WIFI (40MHz 802.11ac SISO ANT WF2)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	14.77
	5230	46	17.03
UNII-2A	5270	54	17.07
	5310	62	14.99
5GHz WIFI (40MHz 802.11ax SISO ANT WF2)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	14.93
	5230	46	17.07
UNII-2A	5270	54	16.99
	5310	62	15.01
5GHz WIFI (80MHz 802.11ax SISO ANT WF2)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-2C	5530	106	13.81
	5610	122	15.87
	5690	138	15.96
UNII-3	5775	155	16.23

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### 7.3 6 GHz WLAN Maximum Time-Averaged Conducted Powers

**Table 7-9**  
6 GHz WLAN Maximum Average RF Power – Antenna WF5T, Variant 1

6GHz WIFI (160MHz 802.11ax SISO ANT WF5T)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-5	6025	15	11.92
	6345	79	10.92
UNII-6	6505	111	10.10
UNII-7	6665	143	9.30
UNII-8	6985	207	10.64

**Table 7-10**  
6 GHz WLAN Maximum Average RF Power – Antenna WF5T, Variant 2

6GHz WIFI (160MHz 802.11ax SISO ANT WF5T)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-5	6025	15	11.45
	6345	79	10.77
UNII-6	6505	111	10.25
UNII-7	6665	143	9.30
UNII-8	6985	207	9.29

**Table 7-11**  
6 GHz WLAN Maximum Average RF Power – Antenna WF2, Variant 1

6GHz WIFI (160MHz 802.11ax SISO ANT WF2)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-5	6025	15	11.52
	6345	79	12.79
UNII-6	6505	111	12.76
UNII-7	6665	143	12.80
UNII-8	6985	207	12.20

**Table 7-12**  
6 GHz WLAN Maximum Average RF Power – Antenna WF2, Variant 2

6GHz WIFI (160MHz 802.11ax SISO ANT WF2)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-5	6025	15	11.53
	6345	79	12.47
UNII-6	6505	111	12.42
UNII-7	6665	143	12.52
UNII-8	6985	207	11.90

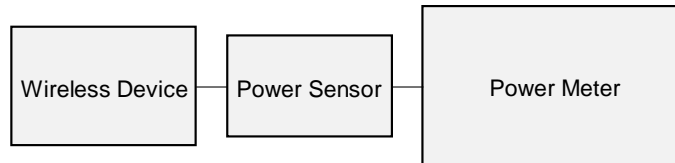
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## 7.4 Notes for WLAN

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 7-13**  
**Bluetooth Average RF Power – Antenna WF8, Variant 1**

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	18.37	68.707
2441	GFSK	1.0	39	18.02	63.387
2480	GFSK	1.0	78	18.31	67.764

**Table 7-14**  
**Bluetooth Average RF Power – Antenna WF8, Variant 2**

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	18.90	77.625
2441	GFSK	1.0	39	18.61	72.611
2480	GFSK	1.0	78	18.44	69.823

**Table 7-15**  
**Bluetooth Average RF Power – Antenna WF7, Variant 1**

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	18.64	73.114
2441	GFSK	1.0	39	18.52	71.121
2480	GFSK	1.0	78	18.77	75.336

**Table 7-16**  
**Bluetooth Average RF Power – Antenna WF7, Variant 2**

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	18.53	71.285
2441	GFSK	1.0	39	18.34	68.234
2480	GFSK	1.0	78	18.55	71.614

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**Table 7-17**  
**Bluetooth Average RF Power – Antenna WF2, Variant 1**

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	11.42	13.868
2441	GFSK	1.0	39	11.50	14.125
2480	GFSK	1.0	78	11.35	13.646

**Table 7-18**  
**Bluetooth Average RF Power – Antenna WF2, Variant 2**

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	11.51	14.158
2441	GFSK	1.0	39	11.61	14.488
2480	GFSK	1.0	78	11.75	14.962

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## 7.6 Bluetooth Duty Cycle Plots

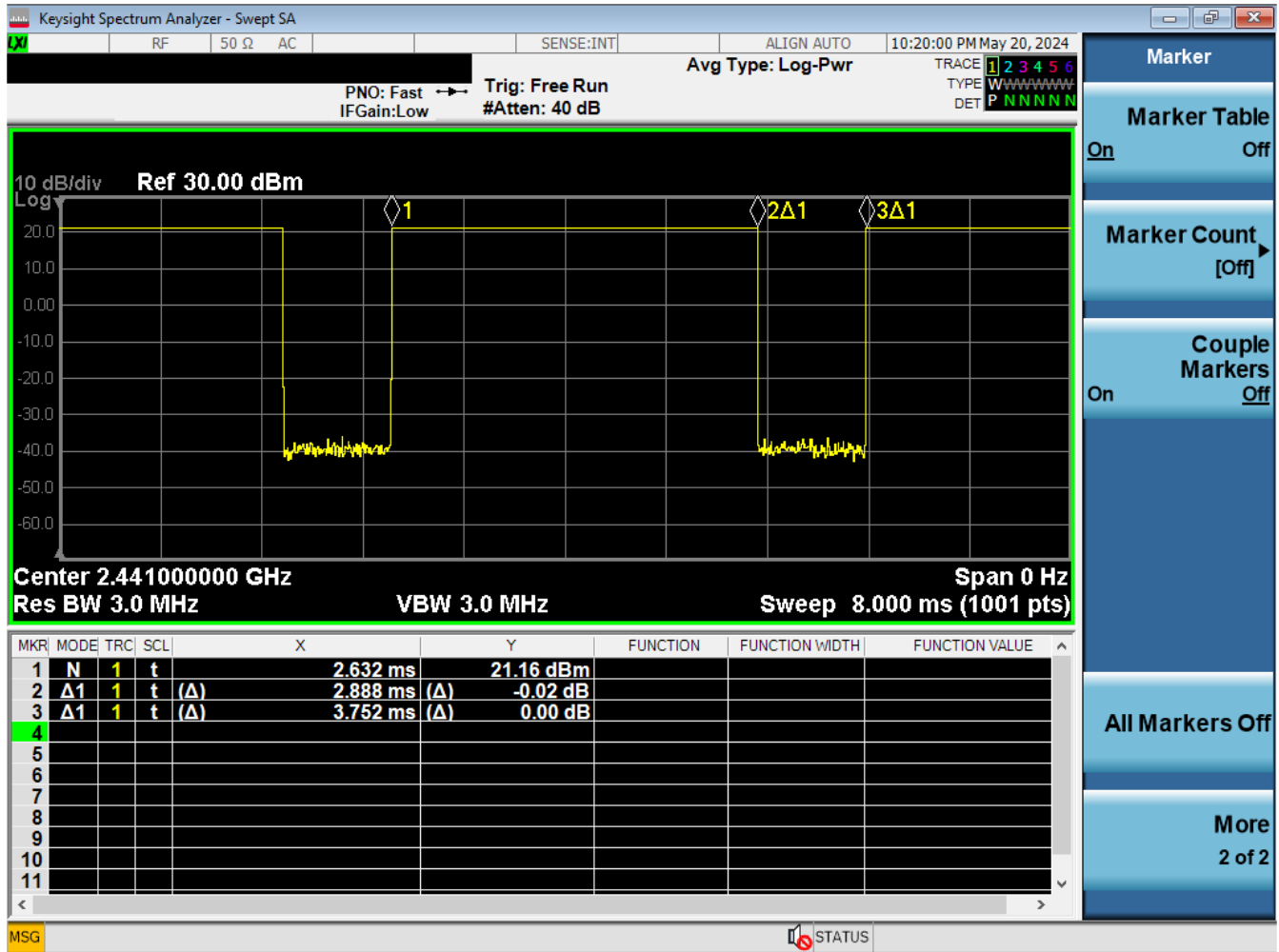


Figure 7-2  
Bluetooth Transmission Plot – Antenna WF8, Variant 1

Equation 7-1  
Bluetooth Duty Cycle Calculation – Antenna WF8, Variant 1

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

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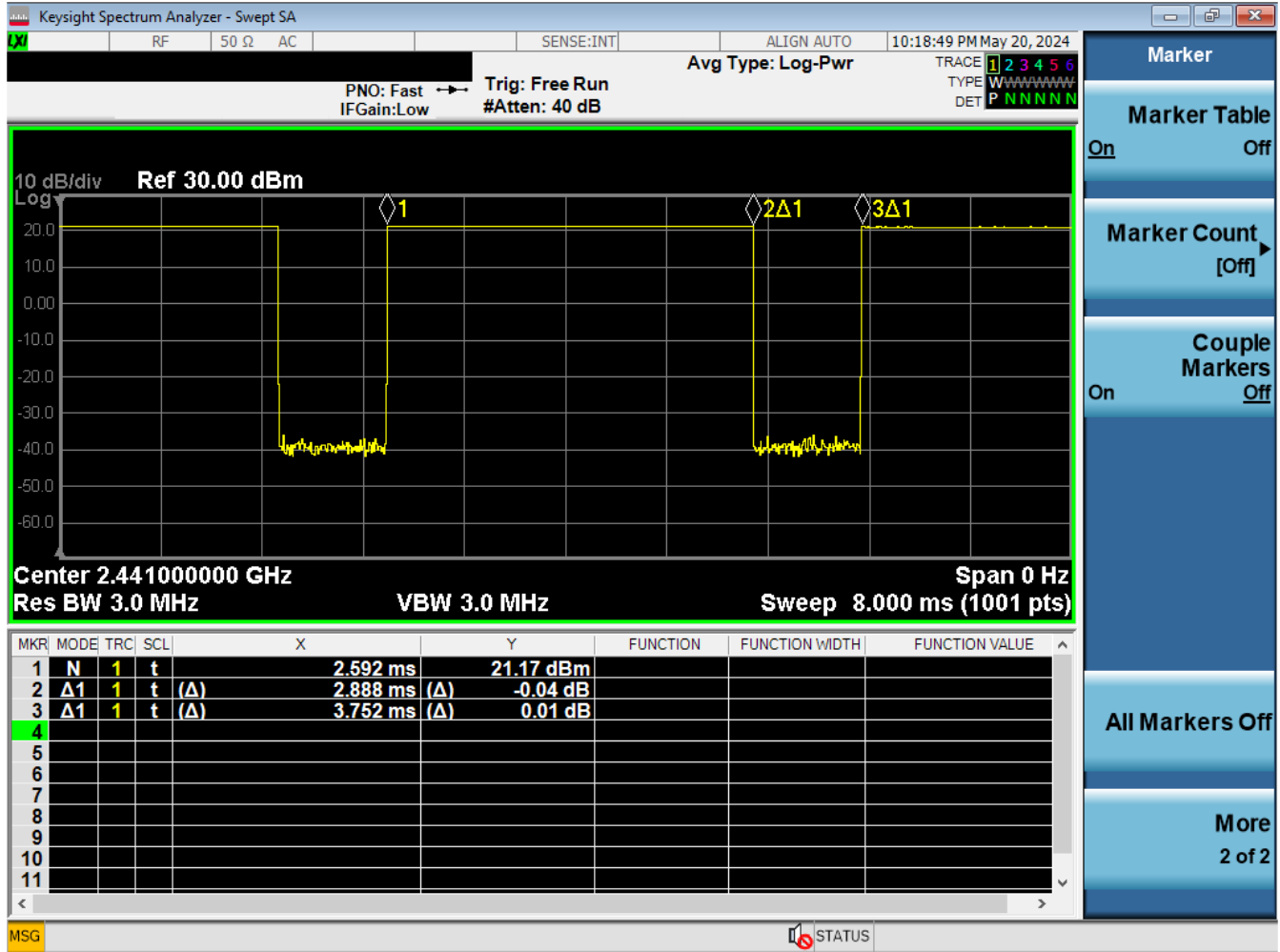


Figure 7-4  
Bluetooth Transmission Plot – Antenna WF7, Variant 1

Equation 7-3  
Bluetooth Duty Cycle Calculation – Antenna WF7, Variant 1

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

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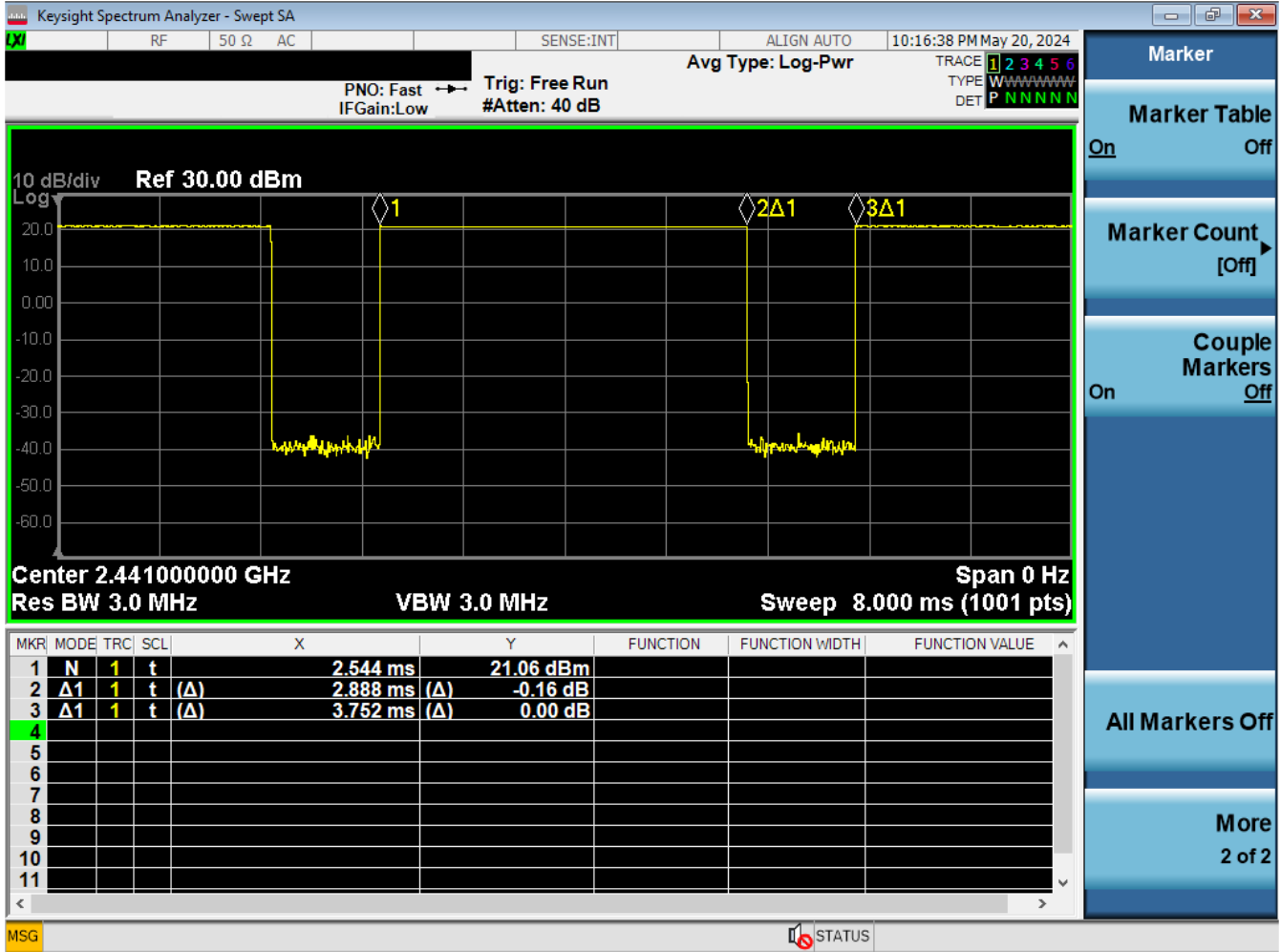


Figure 7-5  
Bluetooth Transmission Plot – Antenna WF7, Variant 2

Equation 7-4  
Bluetooth Duty Cycle Calculation – Antenna WF7, Variant 2

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

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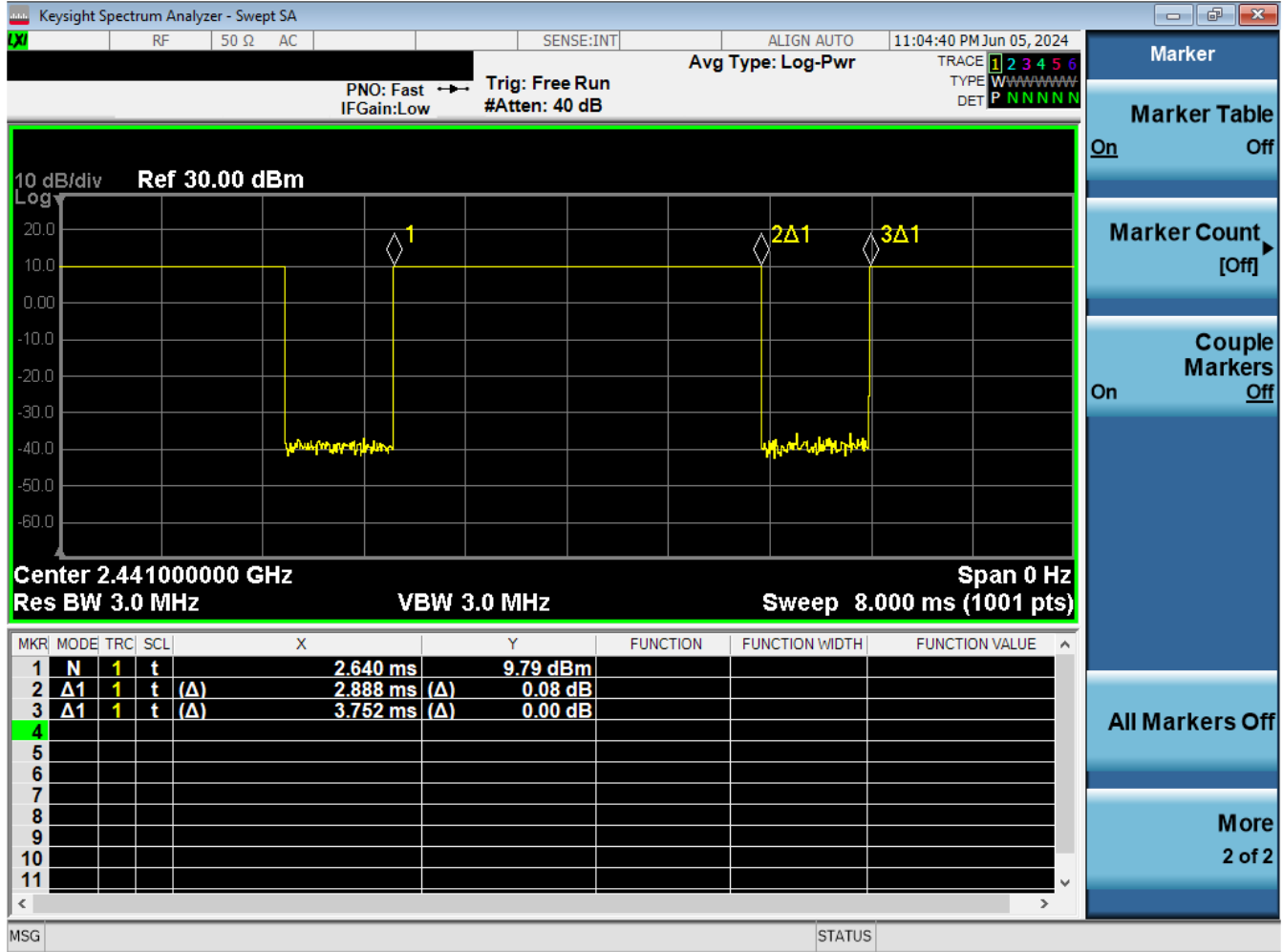


Figure 7-6  
Bluetooth Transmission Plot – Antenna WF2, Variant 1

Equation 7-5  
Bluetooth Duty Cycle Calculation – Antenna WF2, Variant 1

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

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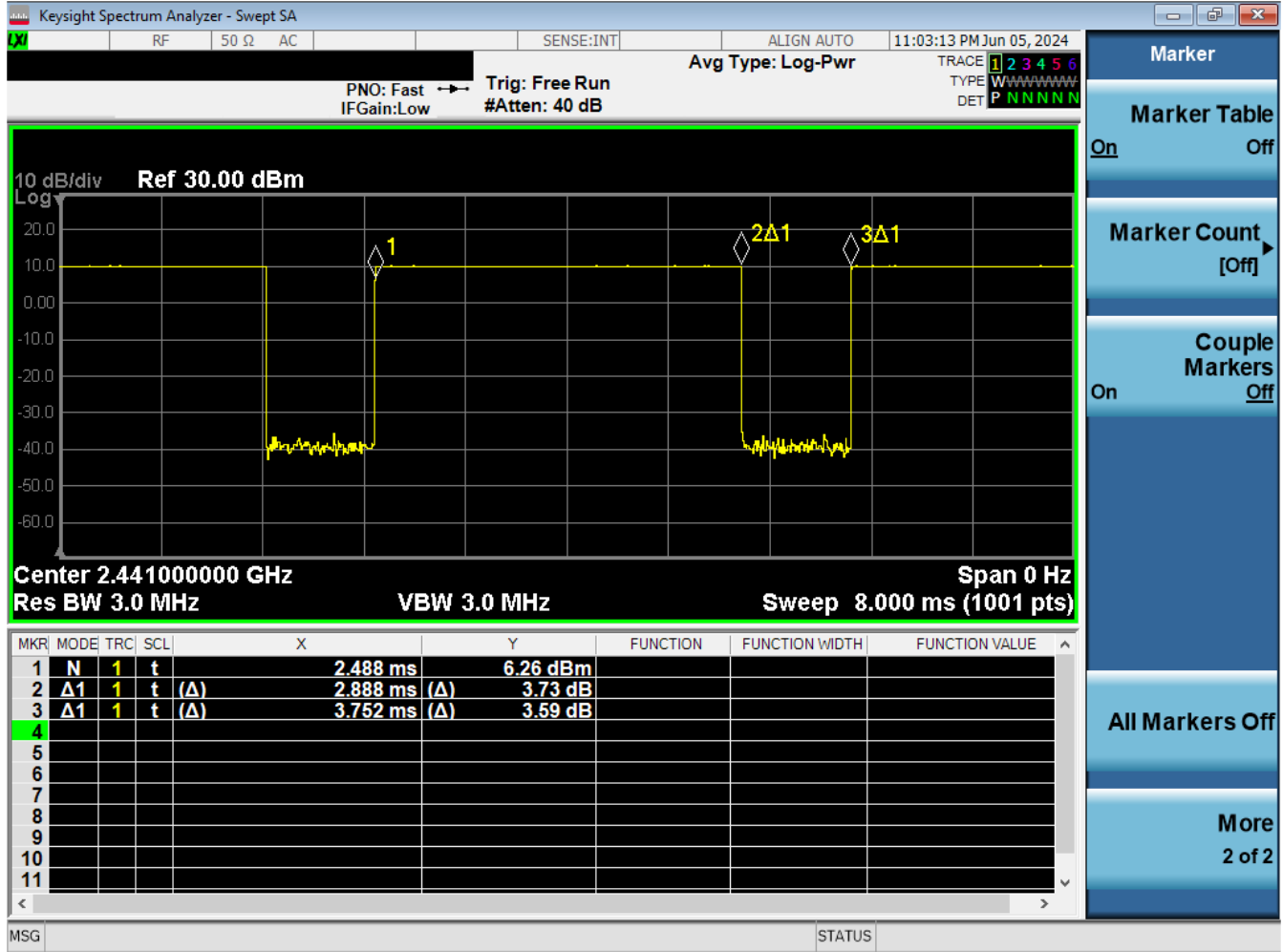


Figure 7-7  
Bluetooth Transmission Plot – Antenna WF2, Variant 2

Equation 7-6  
Bluetooth Duty Cycle Calculation – Antenna WF2, 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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## 7.7 802.15.4 Maximum Conducted Powers

**Table 7-19**  
**802.15.4 Average RF Power – Antenna WF8, Variant 1**

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2405	O-QPSK	1.0	11	19.13	81.846
2440	O-QPSK	1.0	18	19.01	79.616
2475	O-QPSK	1.0	25	19.09	81.096

**Table 7-20**  
**802.15.4 Average RF Power – Antenna WF8, Variant 2**

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2405	O-QPSK	1.0	11	19.06	80.538
2440	O-QPSK	1.0	18	18.92	77.983
2475	O-QPSK	1.0	25	19.24	83.946

**Table 7-21**  
**802.15.4 Average RF Power – Antenna WF7, Variant 1**

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2405	O-QPSK	1.0	11	18.98	79.068
2440	O-QPSK	1.0	18	19.18	82.794
2475	O-QPSK	1.0	25	19.36	86.298

**Table 7-22**  
**802.15.4 Average RF Power – Antenna WF7, Variant 2**

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2405	O-QPSK	1.0	11	18.84	76.560
2440	O-QPSK	1.0	18	18.93	78.163
2475	O-QPSK	1.0	25	19.18	82.832

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**Table 7-23**  
**802.15.4 Average RF Power – Antenna WF2, Variant 1**

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2405	O-QPSK	1.0	11	11.31	13.521
2440	O-QPSK	1.0	18	11.35	13.646
2475	O-QPSK	1.0	25	11.40	13.804

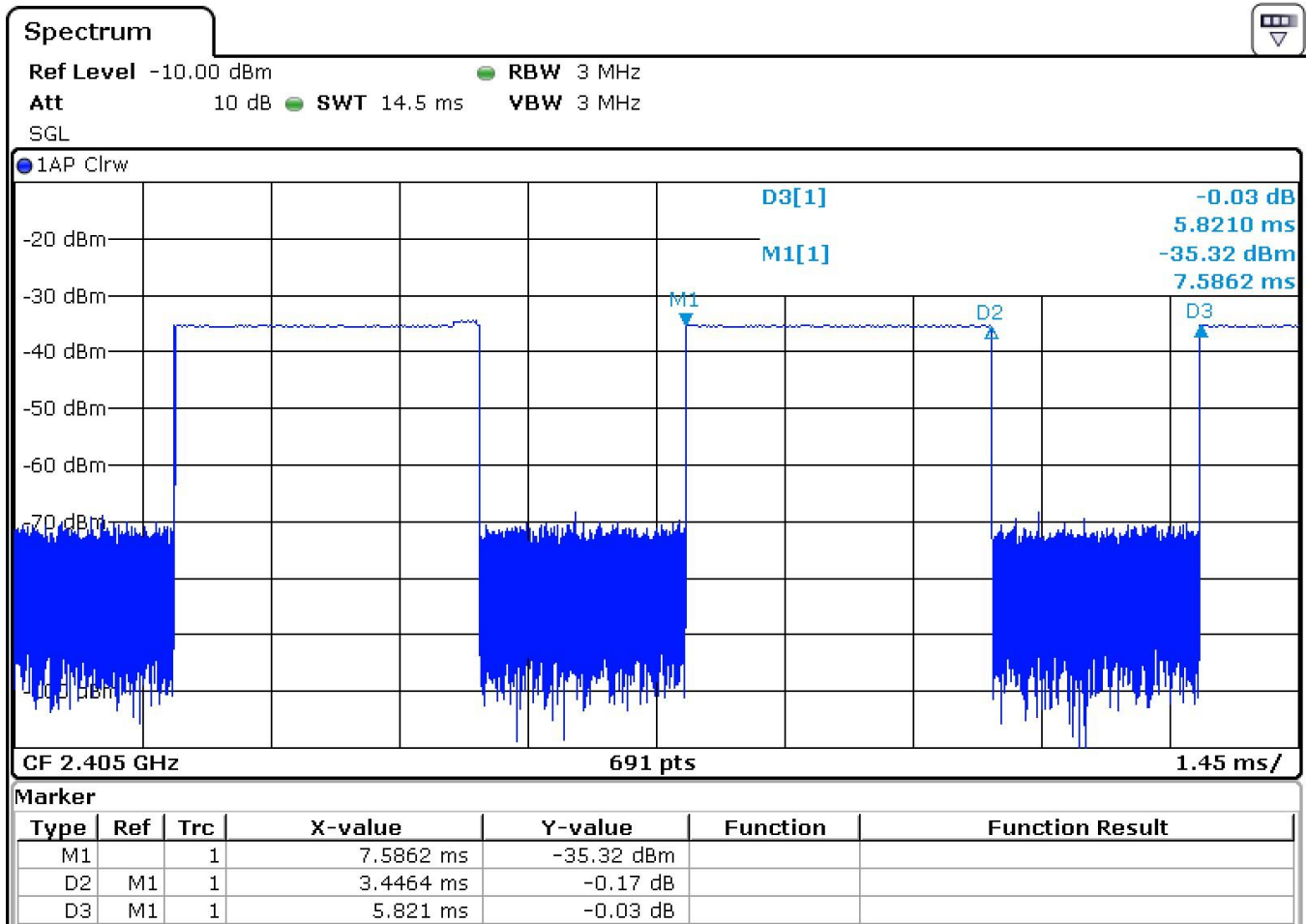
**Table 7-24**  
**802.15.4 Average RF Power – Antenna WF2, Variant 2**

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2405	O-QPSK	1.0	11	11.22	13.243
2440	O-QPSK	1.0	18	11.35	13.646
2475	O-QPSK	1.0	25	11.38	13.740

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## 7.8 802.15.4 Duty Cycle Plots



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

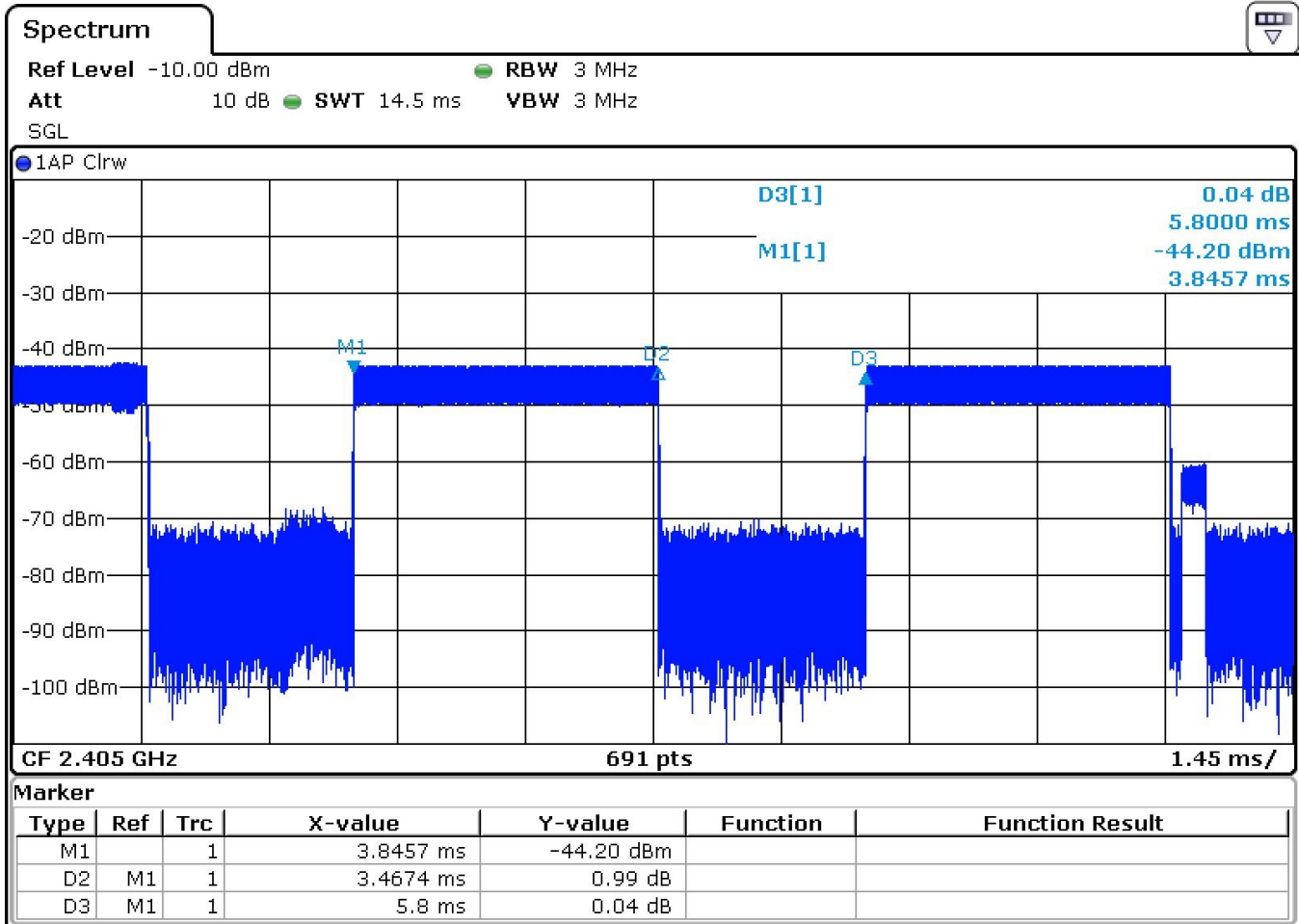
**Figure 7-8**  
**802.15.4 Transmission Plot – Variant 1**

**Equation 7-7**  
**802.15.4 Duty Cycle Calculation – Variant 1**

$$\text{Duty Cycle} = \frac{\text{Pulse Width}}{\text{Period}} * 100\% = \frac{3.4464 \text{ ms}}{5.821 \text{ ms}} * 100\% = 59.21\%$$

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

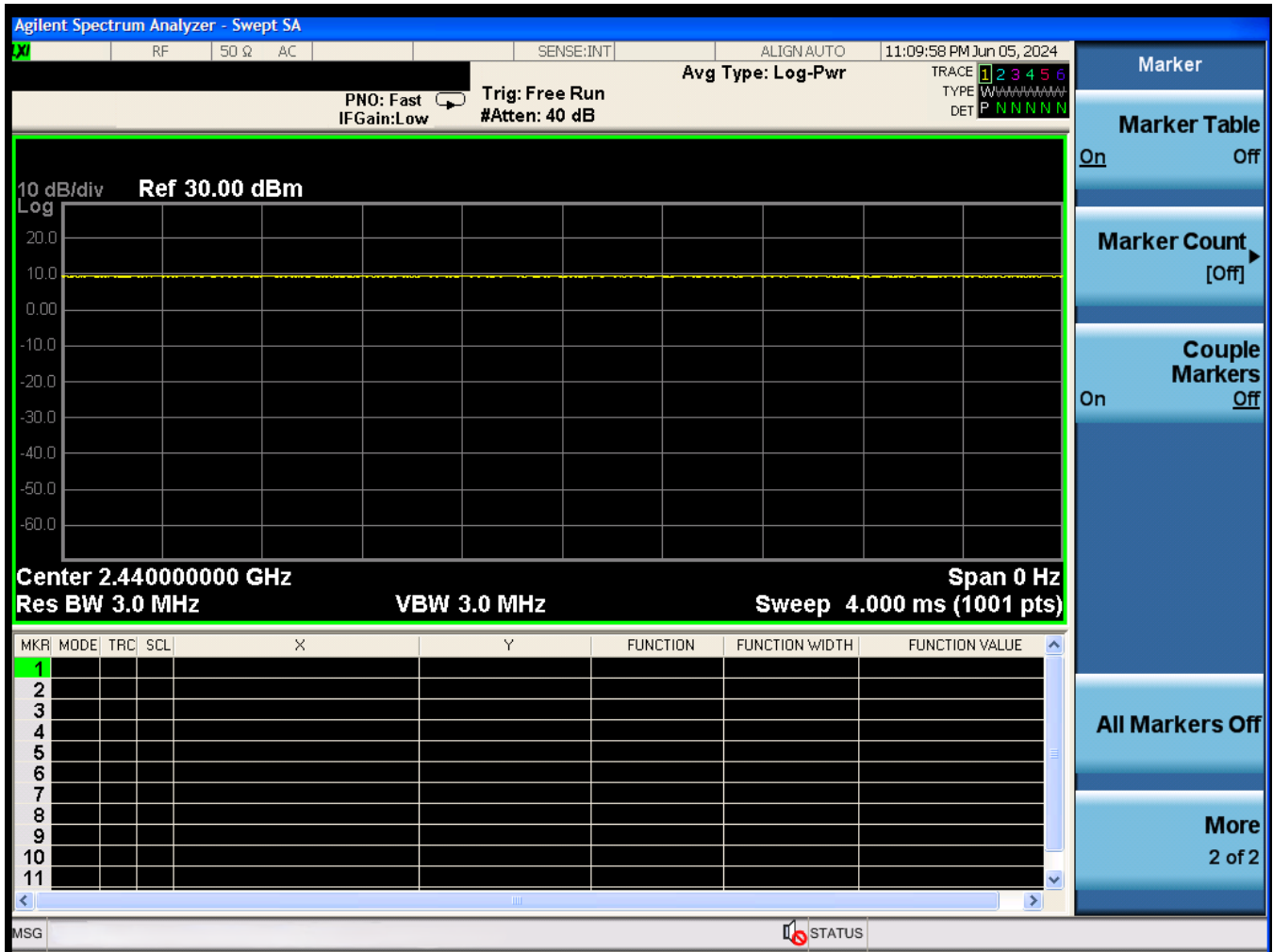
**Figure 7-9**  
**802.15.4 Transmission Plot – Variant 2**

**Equation 7-8**  
**802.15.4 Duty Cycle Calculation – Variant 2**

$$\text{Duty Cycle} = \frac{\text{Pulse Width}}{\text{Period}} * 100\% = \frac{3.4674 \text{ ms}}{5.8 \text{ ms}} * 100\% = 59.78\%$$

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

**Figure 7-10**  
**802.15.4 Transmission Plot – Antenna WF8/WF7/WF2, Variant 1 and 2**

**Equation 7-9**  
**802.15.4 Duty Cycle Calculation – Antenna WF8/WF7/WF2, Variant 1 and 2**

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

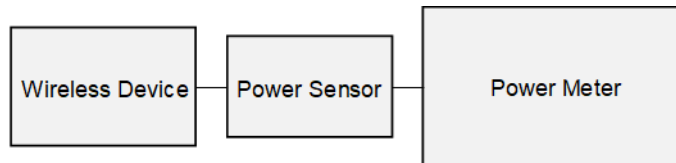
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## 7.9 Notes for Bluetooth/802.15.4

- 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 7-11**  
**Power Measurement Setup**

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## 7.10 NB UNII Maximum Conducted Powers

**Table 7-25**  
**NB UNII Average RF Power – Antenna WF5T, Variant 1**

Type	Band	Frequency	Channel	Average
HDR8	U-NII 1	5162	Low	13.64
		5204	Mid	13.53
		5245	High	13.46
BDR	U-NII 3	5733	Low	14.09
		5789	Mid	14.15
		5844	High	14.04

**Table 7-26**  
**NB UNII Average RF Power – Antenna WF5T, Variant 2**

Type	Band	Frequency	Channel	Average
HDR8	U-NII 1	5162	Low	13.66
		5204	Mid	13.60
		5245	High	13.57
BDR	U-NII 3	5733	Low	14.38
		5789	Mid	14.29
		5844	High	14.20

**Table 7-27**  
**NB UNII Average RF Power – Antenna WF2, Variant 1**

Type	Band	Frequency	Channel	Average
HDR8	U-NII 1	5162	Low	14.02
		5204	Mid	13.97
		5245	High	13.98
BDR	U-NII 3	5733	Low	13.91
		5789	Mid	13.74
		5844	High	13.76

**Table 7-28**  
**NB UNII Average RF Power – Antenna WF2, Variant 2**

Type	Band	Frequency	Channel	Average
HDR8	U-NII 1	5162	Low	13.62
		5204	Mid	13.41
		5245	High	13.27
BDR	U-NII 3	5733	Low	14.10
		5789	Mid	13.89
		5844	High	13.91

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## 7.11 NB UNII Duty Cycle Plots

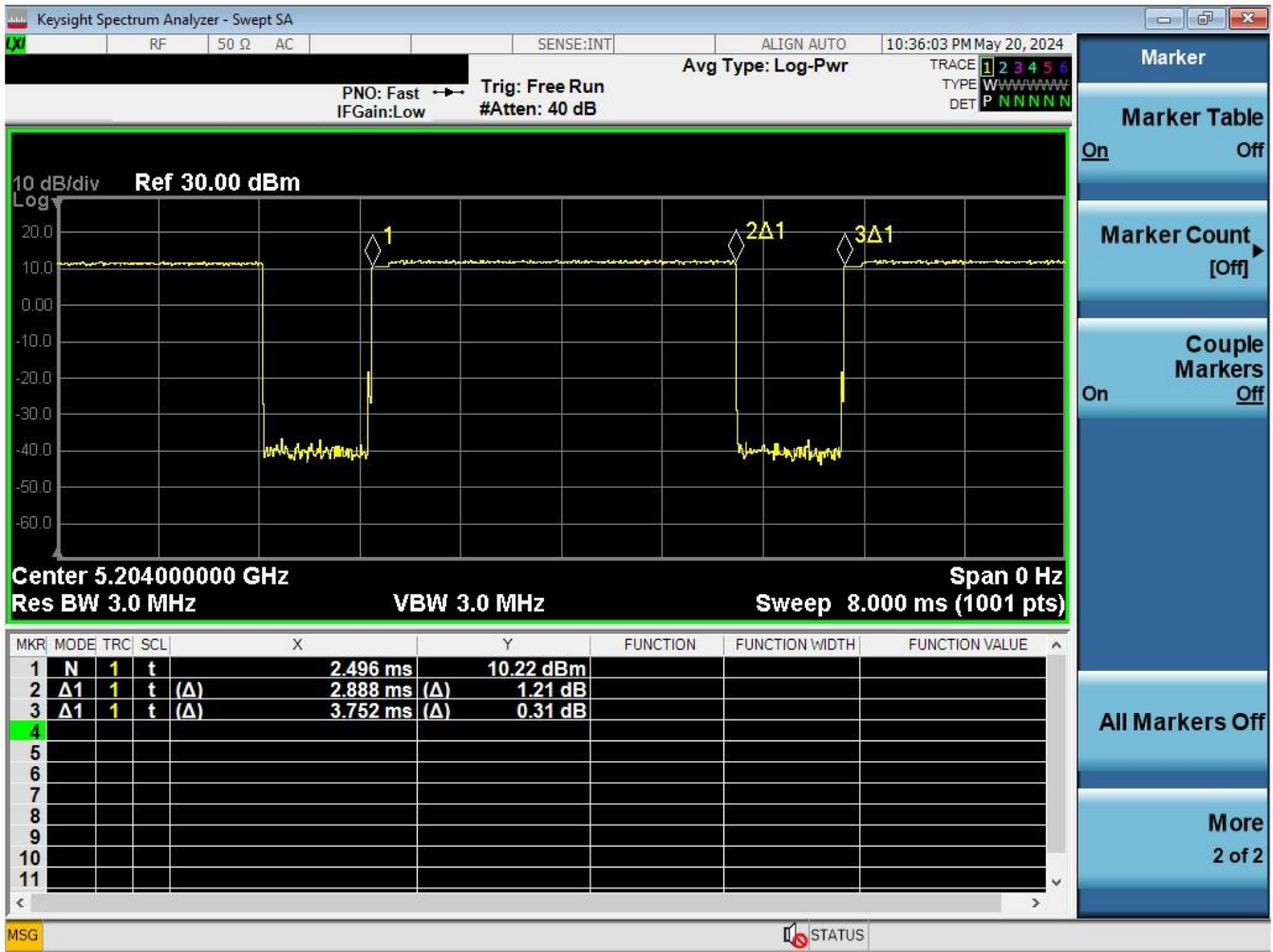


Figure 7-12  
NB UNII-1 Transmission Plot – Antenna WF5T, Variant 1

Equation 7-10  
NB UNII-1 Duty Cycle Calculation – Antenna WF5T, Variant 1

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

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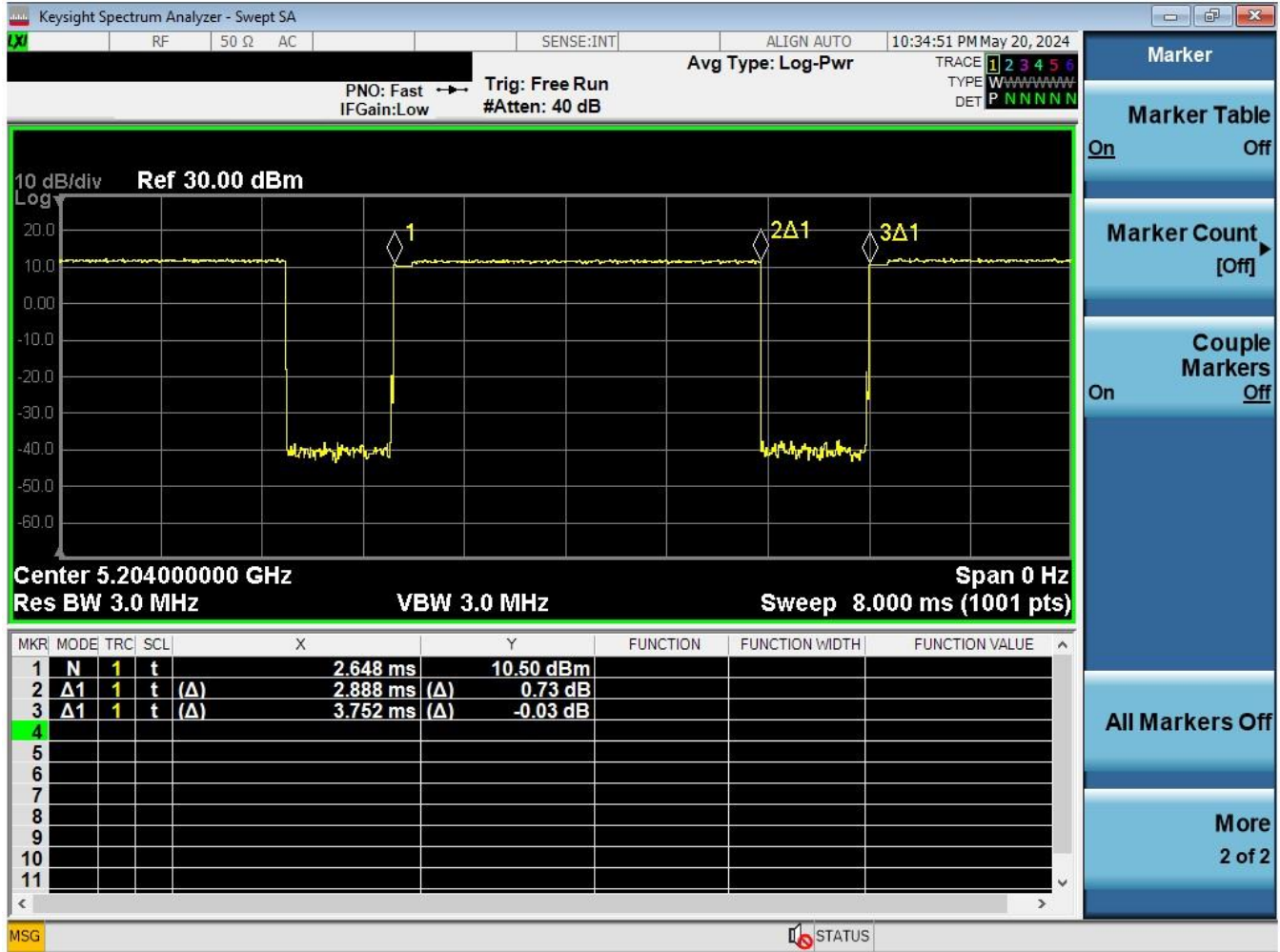


Figure 7-13  
NB UNII-1 Transmission Plot – Antenna WF5T, Variant 2

Equation 7-11  
NB UNII-1 Duty Cycle Calculation – Antenna WF5T, Variant 2

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

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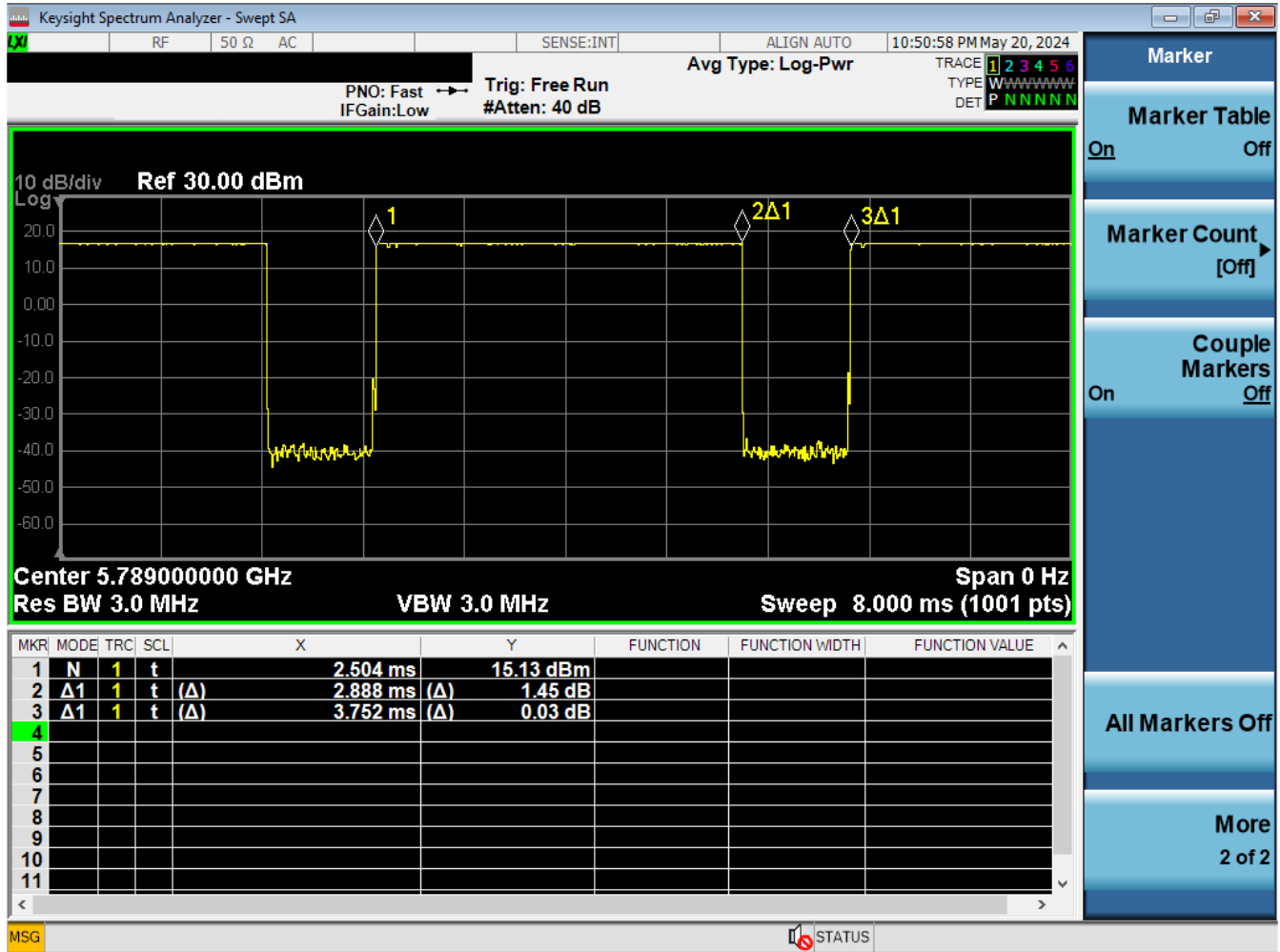


Figure 7-14  
NB UNII-3 Transmission Plot – Antenna WF5T, Variant 1

Equation 7-12  
NB UNII-3 Duty Cycle Calculation – Antenna WF5T, Variant 1

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

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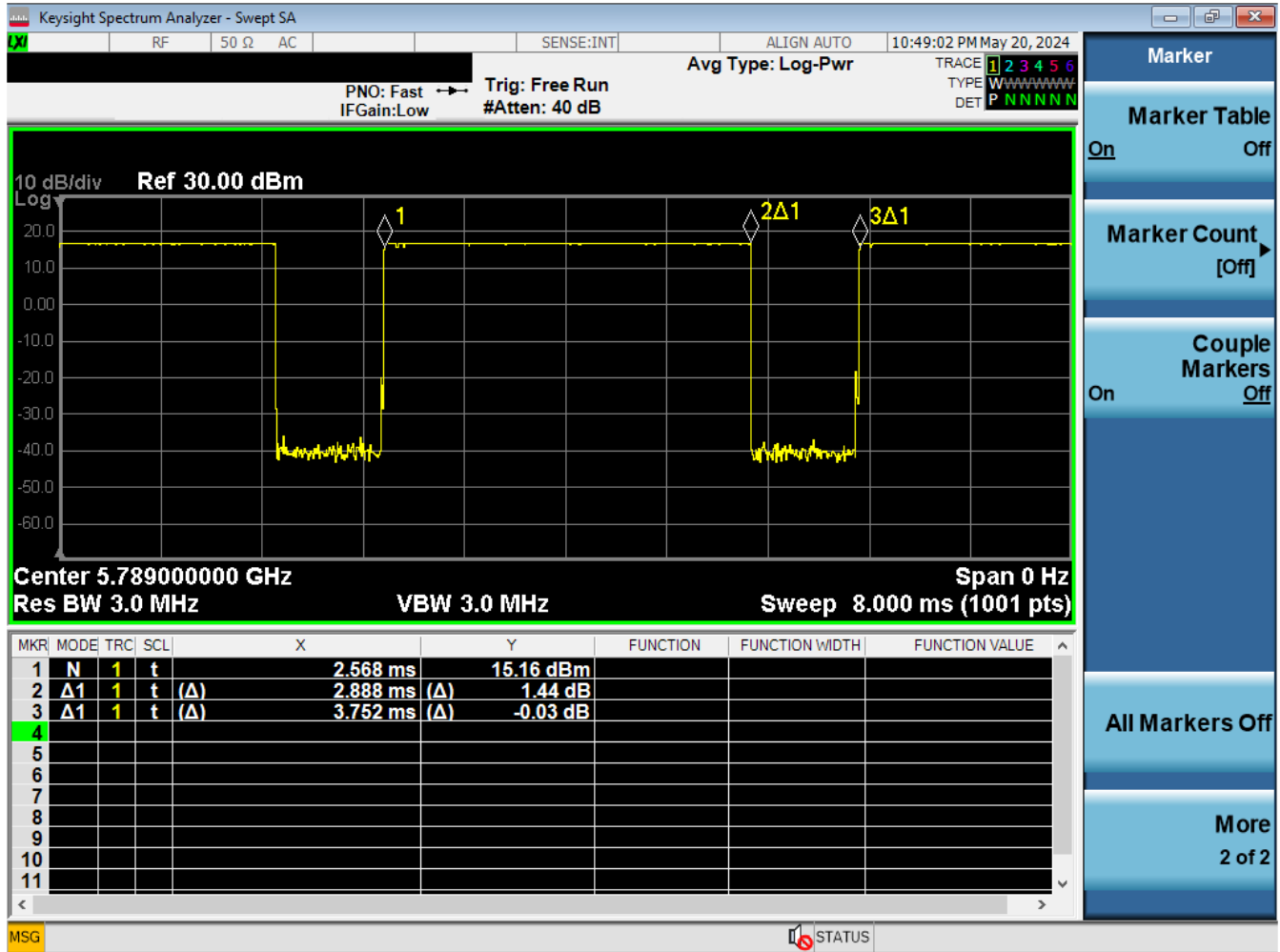


Figure 7-15  
NB UNII-3 Transmission Plot – Antenna WF5T, Variant 2

Equation 7-13  
NB UNII-3 Duty Cycle Calculation – Antenna WF5T, Variant 2

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

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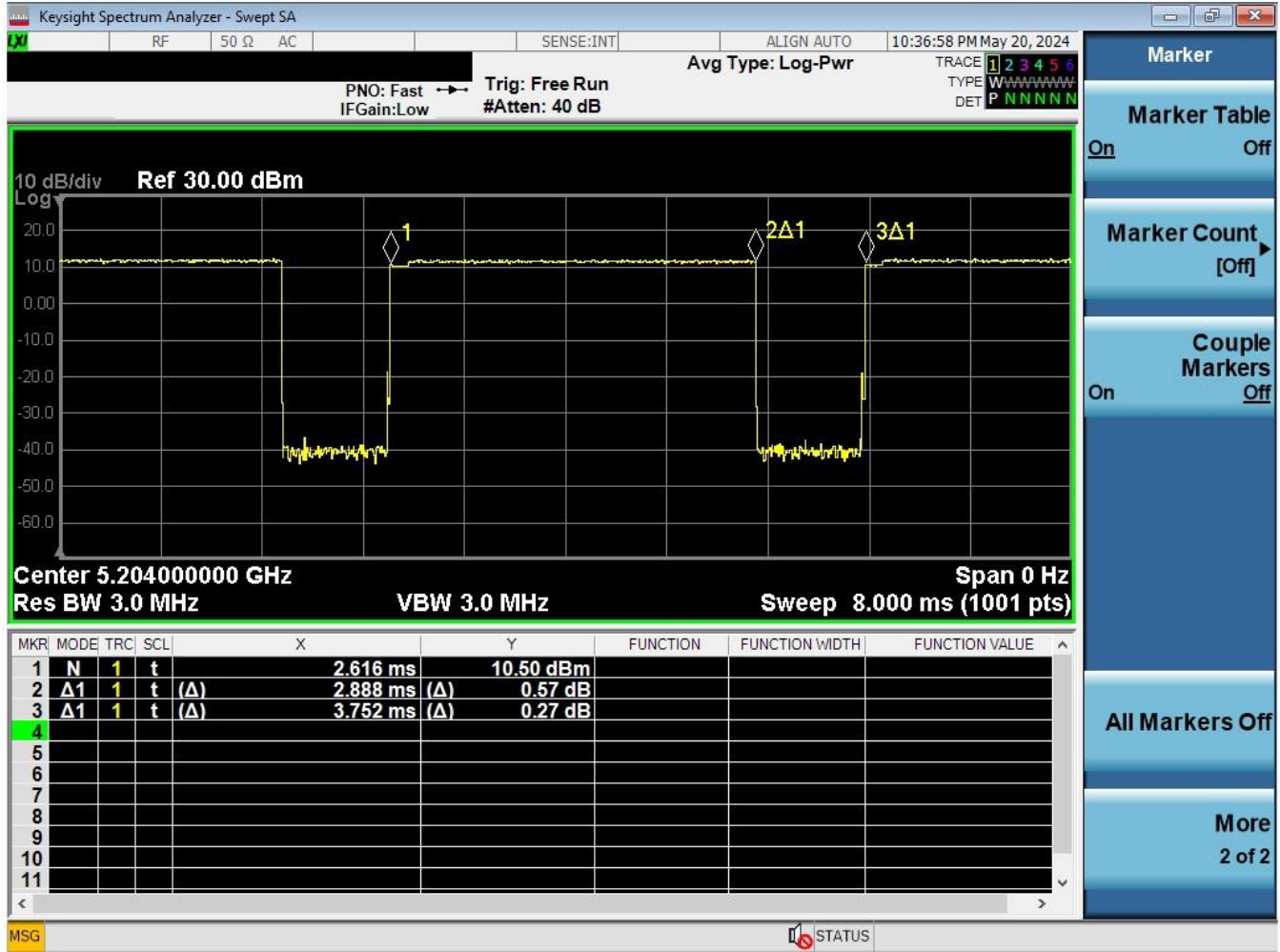


Figure 7-16  
NB UNII-1 Transmission Plot – Antenna WF2, Variant 1

Equation 7-14  
NB UNII-1 Duty Cycle Calculation – Antenna WF2, Variant 1

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

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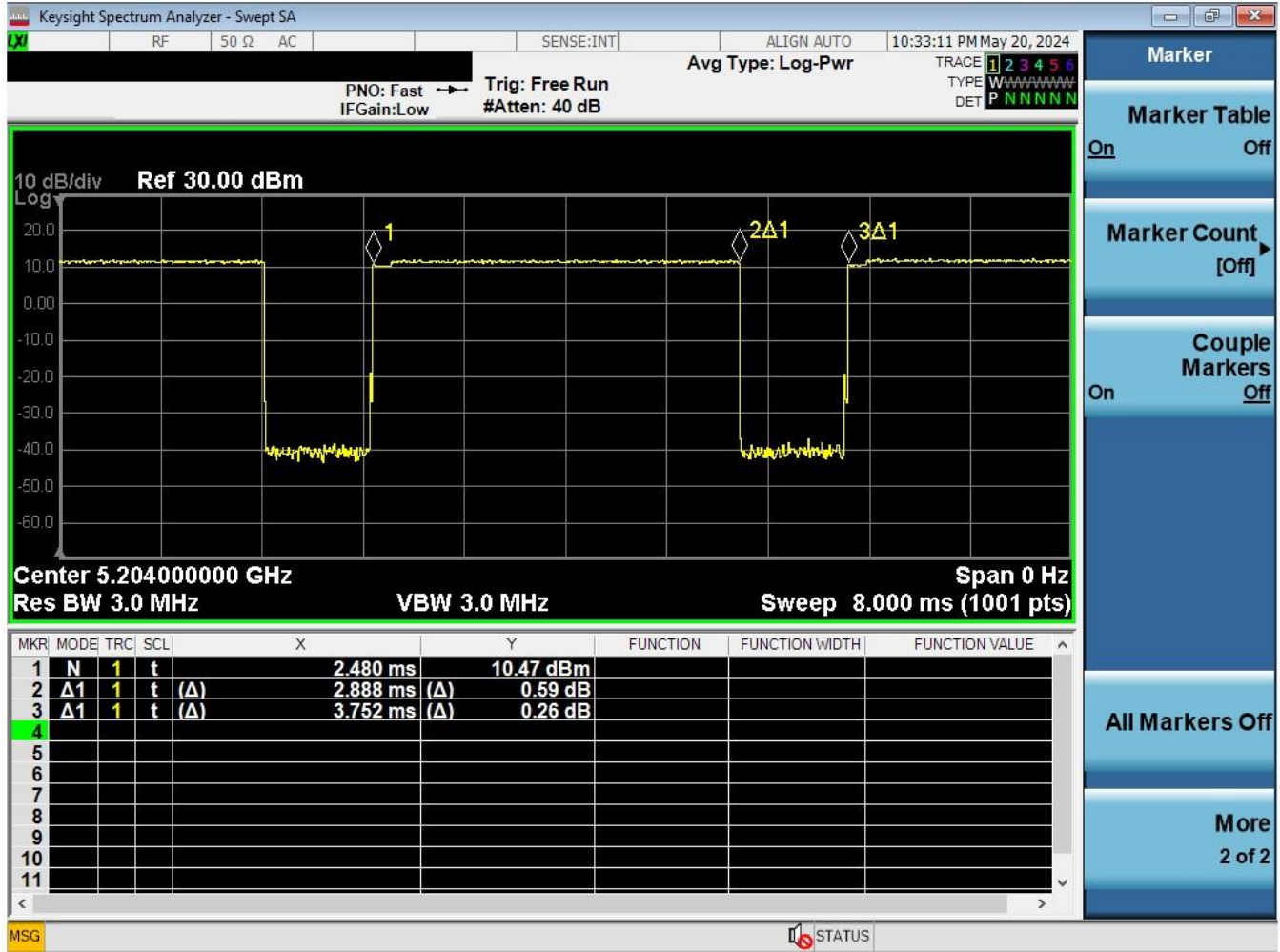


Figure 7-17  
NB UNII-1 Transmission Plot – Antenna WF2, Variant 2

Equation 7-15  
NB UNII-1 Duty Cycle Calculation – Antenna WF2, Variant 2

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

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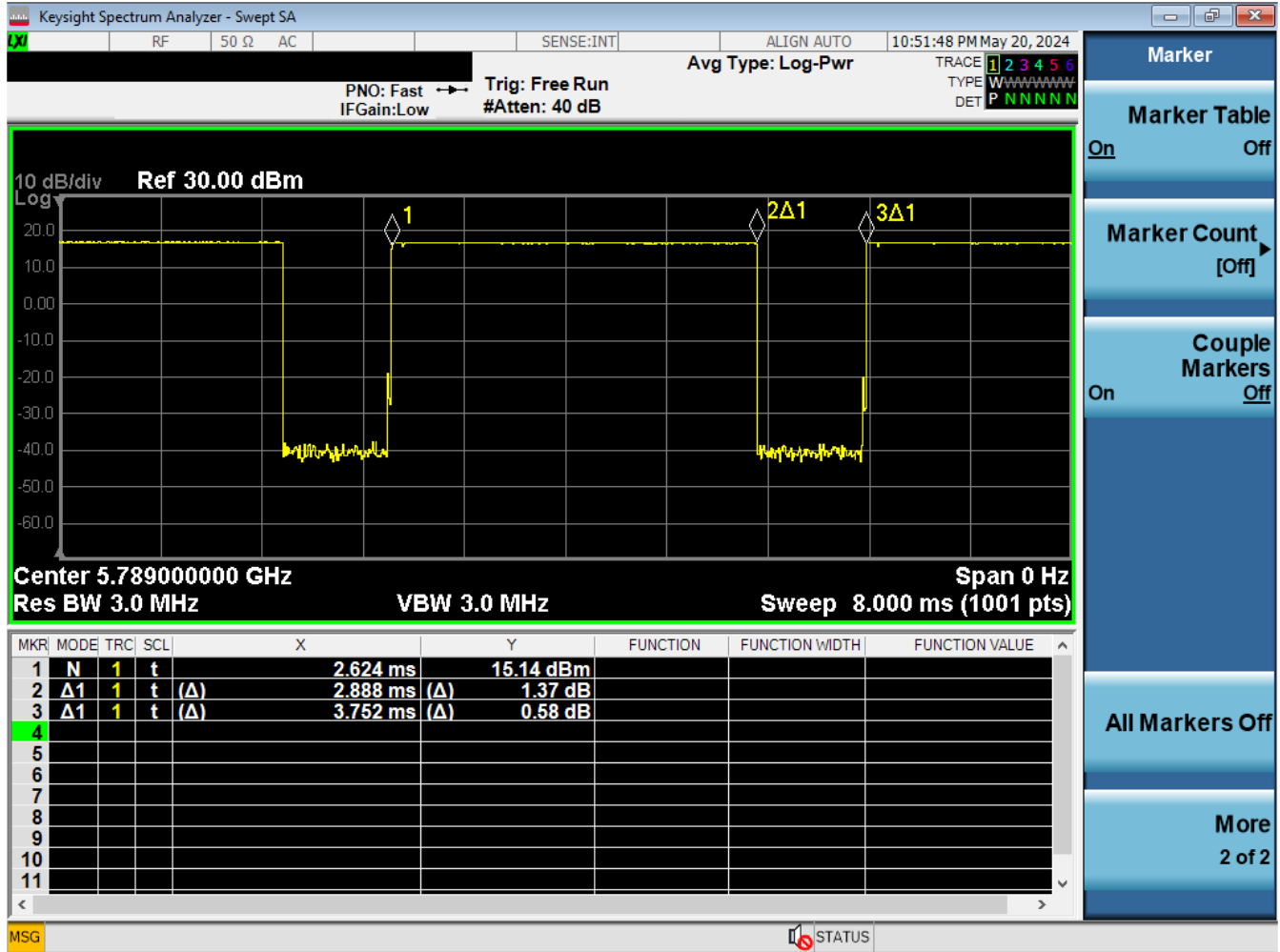


Figure 7-18  
NB UNII-3 Transmission Plot – Antenna WF2, Variant 1

Equation 7-16  
NB UNII-3 Duty Cycle Calculation – Antenna WF2, Variant 1

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

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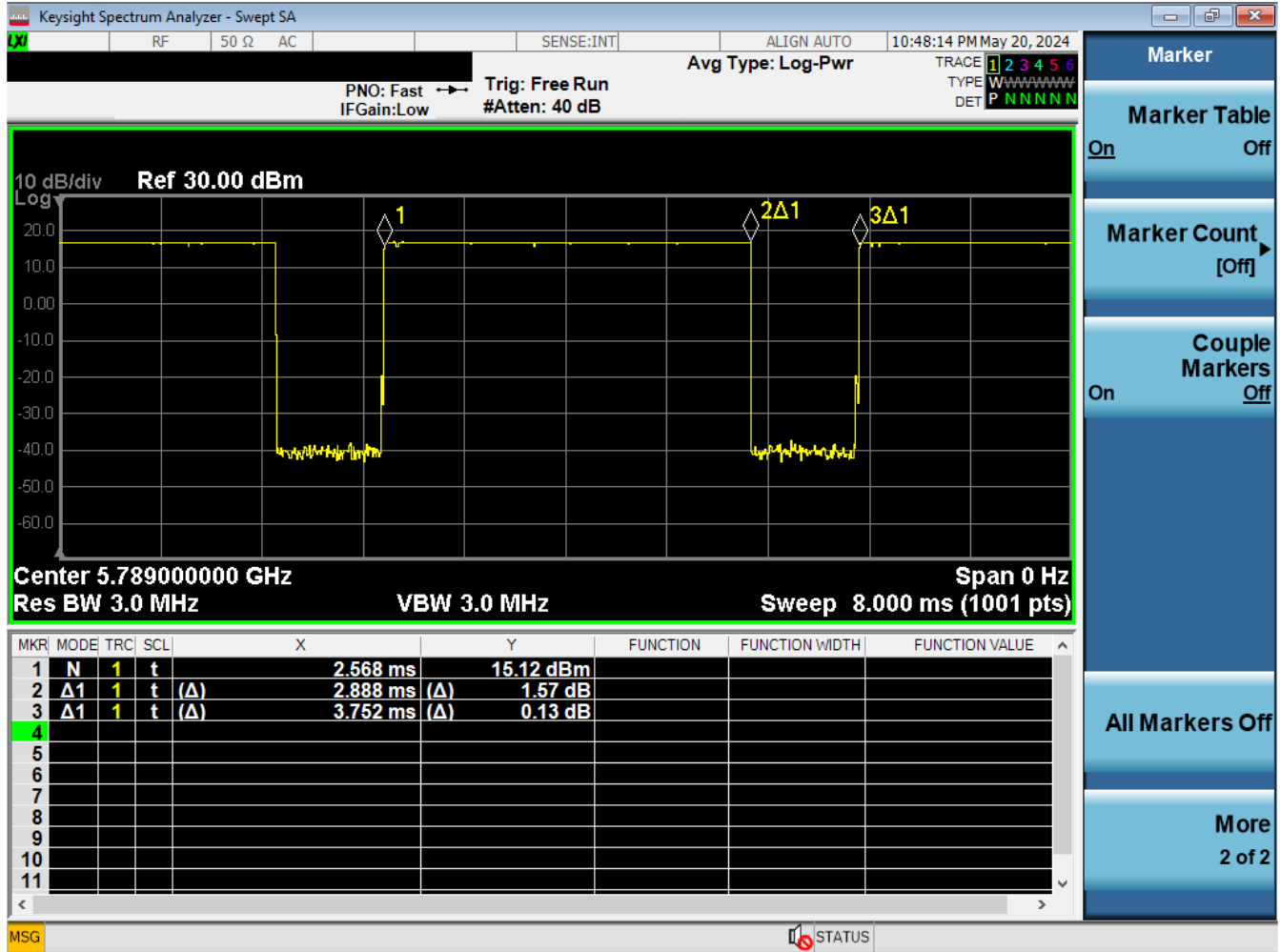


Figure 7-19  
NB UNII-3 Transmission Plot – Antenna WF2, Variant 2

Equation 7-17  
NB UNII-3 Duty Cycle Calculation – Antenna WF2, Variant 2

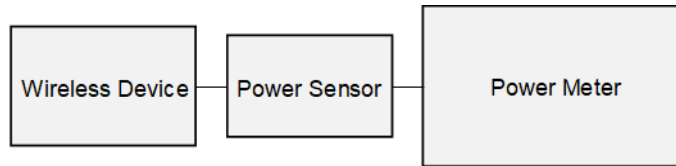
$$Duty\ Cycle = \frac{Pulse\ Width}{Period} * 100\% = \frac{2.888\ ms}{3.752\ ms} * 100\% = 76.97\%$$

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## 7.12 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 7-20**

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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, $\sigma$ (S/m)	Measured Dielectric Constant, $\epsilon$	TARGET Conductivity, $\sigma$ (S/m)	TARGET Dielectric Constant, $\epsilon$	% dev $\sigma$	% dev $\epsilon$
06/22/2024	13 Head	23.0	12	0.722	52.886	0.750	55.000	-3.73%	-3.84%
			13	0.722	52.857	0.750	55.000	-3.73%	-3.90%
			14	0.722	52.822	0.750	55.000	-3.73%	-3.96%
			2300	1.700	40.440	1.670	39.500	1.80%	2.38%
05/20/2024	2450 Head	24.0	2310	1.712	40.396	1.679	39.480	1.97%	2.32%
			2320	1.723	40.353	1.687	39.460	2.13%	2.26%
			2400	1.815	40.045	1.756	39.289	3.36%	1.92%
			2450	1.869	39.838	1.800	39.200	3.83%	1.63%
			2480	1.905	39.727	1.833	39.162	3.93%	1.44%
			2500	1.928	39.654	1.855	39.136	3.94%	1.32%
			2510	1.939	39.619	1.866	39.123	3.91%	1.27%
			2535	1.967	39.514	1.893	39.092	3.91%	1.08%
			2550	1.985	39.446	1.909	39.073	4.03%	0.95%
			2560	1.999	39.401	1.920	39.060	4.11%	0.87%
			2600	2.046	39.257	1.964	39.009	4.18%	0.64%
			2650	2.106	39.059	2.018	38.945	4.36%	0.29%
			2680	2.143	38.941	2.051	38.907	4.49%	0.09%
			2700	2.165	38.871	2.073	38.882	4.44%	-0.03%
05/22/2024	2450 Head	24.0	2300	1.711	39.412	1.670	39.500	2.46%	-0.22%
			2310	1.723	39.372	1.679	39.480	2.62%	-0.27%
			2320	1.736	39.331	1.687	39.460	2.90%	-0.33%
			2400	1.828	39.056	1.756	39.289	4.10%	-0.59%
			2450	1.888	38.869	1.800	39.200	4.89%	-0.85%
			2480	1.920	38.776	1.833	39.162	4.75%	-0.99%
			2500	1.942	38.702	1.855	39.136	4.68%	-1.11%
			2510	1.953	38.659	1.866	39.123	4.66%	-1.19%
			2535	1.983	38.566	1.893	39.092	4.75%	-1.35%
			2550	2.001	38.516	1.909	39.073	4.82%	-1.43%
			2560	2.014	38.484	1.920	39.060	4.90%	-1.47%
			2600	2.058	38.354	1.964	39.009	4.79%	-1.68%
			2650	2.118	38.161	2.018	38.945	4.96%	-2.01%
			2680	2.152	38.050	2.051	38.907	4.82%	-2.20%
2700	2.175	37.987	2.073	38.882	4.82%	-2.30%			
06/26/2024	2450 Head	20.0	2300	1.644	40.198	1.670	39.500	-1.58%	1.74%
			2310	1.651	40.171	1.679	39.480	-1.67%	1.75%
			2320	1.659	40.152	1.687	39.460	-1.66%	1.75%
			2400	1.718	40.043	1.756	39.289	-2.16%	1.92%
			2450	1.757	39.966	1.800	39.200	-2.39%	1.95%
			2480	1.780	39.928	1.833	39.162	-2.89%	1.96%
			2500	1.796	39.892	1.855	39.136	-3.18%	1.93%
			2510	1.804	39.876	1.866	39.123	-3.32%	1.92%
			2535	1.824	39.842	1.893	39.092	-3.65%	1.92%
			2550	1.837	39.824	1.909	39.073	-3.77%	1.92%
2560	1.845	39.810	1.920	39.060	-3.91%	1.92%			
2600	1.877	39.732	1.964	39.009	-4.43%	1.85%			

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Calibrated for Tests Performed on:	Tissue Type	Tissue Temp During Calibration (°C)	Measured Frequency (MHz)	Measured Conductivity, $\sigma$ (S/m)	Measured Dielectric Constant, $\epsilon$	TARGET Conductivity, $\sigma$ (S/m)	TARGET Dielectric Constant, $\epsilon$	% dev $\sigma$	% dev $\epsilon$
05/20/2024	5200-5800 Head	19.8	5180	4.529	36.300	4.635	36.009	-2.29%	0.81%
			5190	4.544	36.271	4.645	35.988	-2.17%	0.76%
			5200	4.560	36.254	4.655	35.986	-2.13%	0.74%
			5210	4.561	36.250	4.666	35.975	-2.25%	0.76%
			5220	4.569	36.239	4.676	35.963	-2.29%	0.77%
			5240	4.603	36.213	4.696	35.940	-1.98%	0.76%
			5250	4.609	36.189	4.706	35.929	-2.06%	0.72%
			5260	4.616	36.161	4.717	35.917	-2.14%	0.68%
			5270	4.633	36.138	4.727	35.906	-1.99%	0.65%
			5280	4.650	36.131	4.737	35.894	-1.84%	0.66%
			5290	4.663	36.124	4.748	35.883	-1.79%	0.67%
			5300	4.676	36.097	4.758	35.871	-1.72%	0.63%
			5310	4.686	36.059	4.768	35.860	-1.72%	0.55%
			5320	4.697	36.034	4.778	35.849	-1.70%	0.52%
			5500	4.904	35.692	4.963	35.643	-1.19%	0.14%
			5510	4.915	35.675	4.973	35.632	-1.17%	0.12%
			5520	4.929	35.658	4.983	35.620	-1.08%	0.11%
			5530	4.944	35.644	4.994	35.609	-1.00%	0.10%
			5540	4.957	35.634	5.004	35.597	-0.94%	0.10%
			5550	4.964	35.631	5.014	35.586	-1.00%	0.13%
			5560	4.972	35.616	5.024	35.574	-1.04%	0.12%
			5580	5.012	35.550	5.045	35.551	-0.65%	0.00%
			5600	5.033	35.512	5.065	35.529	-0.63%	-0.05%
			5610	5.044	35.497	5.076	35.518	-0.63%	-0.06%
			5620	5.057	35.478	5.086	35.506	-0.57%	-0.08%
			5640	5.084	35.458	5.106	35.483	-0.43%	-0.07%
			5660	5.108	35.434	5.127	35.460	-0.37%	-0.07%
			5670	5.125	35.407	5.137	35.449	-0.23%	-0.12%
			5680	5.138	35.367	5.147	35.437	-0.17%	-0.20%
			5690	5.145	35.339	5.158	35.426	-0.25%	-0.25%
			5700	5.151	35.322	5.168	35.414	-0.33%	-0.26%
			5710	5.162	35.298	5.178	35.403	-0.31%	-0.30%
			5720	5.179	35.279	5.188	35.391	-0.17%	-0.32%
			5745	5.215	35.261	5.214	35.363	0.02%	-0.22%
			5750	5.219	35.253	5.219	35.357	0.00%	-0.22%
			5755	5.225	35.245	5.224	35.351	0.02%	-0.30%
			5765	5.237	35.221	5.234	35.340	0.06%	-0.34%
			5775	5.250	35.194	5.245	35.329	0.10%	-0.38%
			5785	5.259	35.171	5.255	35.317	0.08%	-0.41%
			5795	5.269	35.151	5.265	35.305	0.08%	-0.44%
			5805	5.279	35.137	5.275	35.294	0.08%	-0.44%
			5825	5.300	35.100	5.296	35.271	0.08%	-0.46%
			5835	5.315	35.080	5.305	35.230	0.19%	-0.43%
			5845	5.330	35.062	5.315	35.210	0.28%	-0.42%
			5850	5.337	35.053	5.320	35.200	0.32%	-0.42%
			5855	5.343	35.047	5.325	35.197	0.34%	-0.43%
			5875	5.369	35.004	5.347	35.183	0.41%	-0.51%
			5885	5.380	34.986	5.357	35.177	0.43%	-0.54%
			5905	5.394	34.949	5.379	35.163	0.28%	-0.61%
			5150	4.465	34.903	4.604	35.043	-3.02%	-3.44%
5160	4.473	34.795	4.614	35.031	-3.06%	-3.43%			
5170	4.480	34.777	4.624	35.020	-3.11%	-3.45%			
5180	4.487	34.758	4.635	35.009	-3.19%	-3.47%			
5190	4.501	34.747	4.645	35.998	-3.10%	-3.48%			
5200	4.511	34.740	4.655	35.986	-3.09%	-3.46%			
5210	4.519	34.718	4.666	35.975	-3.15%	-3.49%			
5220	4.531	34.682	4.676	35.963	-3.10%	-3.56%			
5240	4.562	34.667	4.696	35.940	-3.07%	-3.57%			
5250	4.557	34.640	4.706	35.929	-3.17%	-3.56%			
5260	4.565	34.630	4.717	35.917	-3.16%	-3.58%			
5270	4.582	34.605	4.727	35.906	-3.07%	-3.62%			
5280	4.600	34.596	4.737	35.894	-2.89%	-3.62%			
5290	4.613	34.590	4.748	35.883	-2.84%	-3.60%			
5300	4.620	34.575	4.758	35.871	-2.90%	-3.61%			
5310	4.624	34.545	4.768	35.860	-3.02%	-3.67%			
5320	4.623	34.508	4.778	35.849	-3.12%	-3.74%			
5500	4.819	34.248	4.963	35.643	-2.90%	-3.91%			
5510	4.834	34.240	4.973	35.632	-2.80%	-3.91%			
5520	4.845	34.227	4.983	35.620	-2.77%	-3.91%			
5530	4.856	34.217	4.994	35.609	-2.76%	-3.91%			
5540	4.864	34.207	5.004	35.597	-2.80%	-3.90%			
5550	4.874	34.195	5.014	35.586	-2.79%	-3.91%			
5560	4.883	34.178	5.024	35.574	-2.81%	-3.92%			
5580	4.907	34.127	5.045	35.551	-2.74%	-4.01%			
5600	4.930	34.094	5.065	35.529	-2.67%	-4.04%			
5610	4.941	34.072	5.076	35.518	-2.66%	-4.07%			
5620	4.952	34.062	5.086	35.506	-2.63%	-4.07%			
5640	4.969	34.045	5.106	35.483	-2.68%	-4.05%			
5660	4.988	34.006	5.127	35.460	-2.71%	-4.10%			
5670	5.002	33.976	5.137	35.449	-2.63%	-4.16%			
5680	5.013	33.945	5.147	35.437	-2.60%	-4.21%			
5690	5.044	33.926	5.158	35.426	-2.60%	-4.24%			
5700	5.037	33.914	5.168	35.414	-2.63%	-4.24%			
5710	5.050	33.896	5.178	35.403	-2.47%	-4.26%			
5720	5.060	33.885	5.188	35.391	-2.47%	-4.26%			
5745	5.090	33.861	5.214	35.363	-2.38%	-4.25%			
5750	5.096	33.847	5.219	35.357	-2.36%	-4.27%			
5755	5.103	33.832	5.224	35.351	-2.32%	-4.30%			
5765	5.114	33.804	5.234	35.340	-2.29%	-4.39%			
5775	5.128	33.786	5.245	35.329	-2.27%	-4.37%			
5785	5.138	33.768	5.255	35.317	-2.23%	-4.39%			
5795	5.146	33.752	5.265	35.305	-2.26%	-4.40%			
5800	5.150	33.749	5.270	35.300	-2.28%	-4.39%			
5805	5.154	33.743	5.275	35.294	-2.29%	-4.39%			
5825	5.173	33.726	5.296	35.271	-2.32%	-4.38%			
5835	5.186	33.715	5.305	35.230	-2.24%	-4.30%			
5845	5.198	33.701	5.315	35.210	-2.20%	-4.29%			
5850	5.203	33.694	5.320	35.200	-2.20%	-4.28%			
5855	5.210	33.688	5.325	35.197	-2.16%	-4.22%			
5865	5.222	33.676	5.336	35.190	-2.14%	-4.30%			
5875	5.233	33.661	5.347	35.183	-2.13%	-4.33%			
5885	5.245	33.636	5.367	35.177	-2.09%	-4.38%			
5905	5.255	33.618	5.379	35.163	-2.31%	-4.39%			

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Calibrated for Tests Performed on:	Tissue Type	Tissue Temp During Calibration (°C)	Measured Frequency (MHz)	Measured Conductivity, $\sigma$ (S/m)	Measured Dielectric Constant, $\epsilon$	TARGET Conductivity, $\sigma$ (S/m)	TARGET Dielectric Constant, $\epsilon$	% dev $\sigma$	% dev $\epsilon$
05/28/2024	6000 Head	20.4	5935	5.243	35.888	5.411	35.143	-3.10%	2.12%
			5970	5.295	35.826	5.448	35.120	-2.81%	2.01%
			5985	5.311	35.800	5.464	35.110	-2.80%	1.97%
			6000	5.324	35.771	5.480	35.100	-2.85%	1.91%
			6025	5.348	35.710	5.510	35.070	-2.98%	1.82%
			6065	5.408	35.662	5.557	35.022	-2.68%	1.83%
			6075	5.421	35.657	5.569	35.010	-2.66%	1.85%
			6085	5.432	35.651	5.580	34.998	-2.66%	1.87%
			6185	5.560	35.457	5.698	34.878	-2.42%	1.66%
			6275	5.672	35.271	5.805	34.770	-2.29%	1.44%
			6285	5.682	35.250	5.816	34.758	-2.30%	1.42%
			6305	5.694	35.225	5.840	34.734	-2.50%	1.41%
			6345	5.744	35.160	5.887	34.686	-2.43%	1.37%
			6475	5.885	34.929	6.041	34.530	-2.58%	1.16%
			6485	5.897	34.918	6.052	34.518	-2.56%	1.16%
			6500	5.920	34.900	6.070	34.500	-2.47%	1.16%
			6505	5.927	34.897	6.076	34.494	-2.45%	1.17%
			6545	5.986	34.882	6.122	34.446	-2.22%	1.27%
			6665	6.120	34.672	6.265	34.302	-2.31%	1.08%
			6675	6.132	34.640	6.273	34.290	-2.25%	1.02%
			6685	6.150	34.608	6.285	34.278	-2.15%	0.96%
			6715	6.201	34.565	6.319	34.242	-1.87%	0.94%
			6785	6.261	34.400	6.400	34.158	-2.17%	0.71%
			6825	6.319	34.371	6.447	34.110	-1.99%	0.77%
			6985	6.488	34.060	6.633	33.918	-2.19%	0.42%
			6995	6.505	34.050	6.644	33.906	-2.08%	0.42%
			7000	6.514	34.044	6.650	33.900	-2.05%	0.42%
			7025	6.549	34.035	6.680	33.870	-1.96%	0.49%
			7500	7.136	33.316	7.240	33.300	-1.44%	0.05%
			7980	7.692	32.461	7.816	32.724	-1.59%	-0.80%
			8000	7.796	32.309	7.840	32.700	-0.66%	-1.20%

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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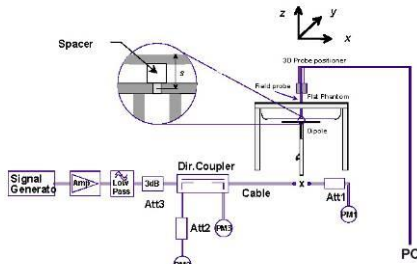
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## 8.2 Test System Verification

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 SAR System Validation Appendix.

**Table 8-2  
System Verification Results**

System Verification TARGET & MEASURED																					
SAR System	Tissue Frequency (MHz)	Tissue Type	Date	Amb. Temp. (C)	Liquid Temp. (C)	Input Power (W)	Source SN	Probe SN	DAE	Measured SAR 1g (W/kg)	1W Target SAR 1g (W/kg)	1W Normalized SAR 1g (W/kg)	Deviation 1g (%)	Measured SAR 10g (W/kg)	1W Target SAR 10g (W/kg)	1W Normalized SAR 10g (W/kg)	Deviation 10g (%)	Measured 4cm2 APD (W/m2)	1W Target 4cm2 APD (W/m2)	1W Normalized 4cm2 APD (W/m2)	Deviation 4cm2 APD (%)
AM14	13	HEAD	06/22/2024	21.0	21.2	1.00	1004	3746	1237	0.590	0.578	0.590	2.08%	0.363	0.356	0.363	1.97%				
AM12	2450	HEAD	05/20/2024	21.5	22.9	0.10	750	7638	1408	5.530	52.600	55.300	5.13%	2.480	24.500	24.800	1.22%				
AM12	2450	HEAD	05/22/2024	21.0	22.8	0.10	750	7638	1408	5.190	52.600	51.900	-1.33%	2.330	24.500	23.300	-4.90%				
AM13	2450	HEAD	06/26/2024	22.5	21.4	0.10	921	7682	1683	5.300	54.200	53.000	-2.21%	2.530	25.500	25.200	-1.18%				
AM9	5250	HEAD	05/20/2024	20.7	19.8	0.05	1066	3746	1237	4.130	80.300	82.600	2.86%	1.190	23.100	23.800	3.03%				
AM8	5250	HEAD	06/27/2024	20.8	19.8	0.05	1066	7427	467	3.800	80.300	76.000	-5.35%	1.090	23.100	21.800	-5.63%				
AM9	5600	HEAD	05/27/2024	20.7	19.8	0.05	1066	3746	1237	3.960	83.900	79.200	-5.60%	1.120	24.100	22.400	-7.05%				
AM8	5600	HEAD	06/27/2024	20.8	19.8	0.05	1066	7427	467	4.120	83.900	82.400	-1.79%	1.180	24.100	23.600	-2.07%				
AM9	5750	HEAD	05/20/2024	20.7	19.8	0.05	1066	3746	1237	3.870	79.500	77.400	-2.64%	1.110	22.600	22.200	-1.77%				
AM8	5750	HEAD	06/27/2024	20.8	19.8	0.05	1066	7427	467	3.800	79.500	76.000	-4.40%	1.090	22.600	21.800	-3.54%				
AM8	5850	HEAD	06/27/2024	20.8	19.8	0.05	1066	7427	467	3.960	82.200	79.200	-3.65%	1.110	23.400	22.400	-4.27%				
AM2	6500	HEAD	05/28/2024	21.3	20.0	0.025	1019	7420	1333	7.100	293.000	284.000	-3.07%	1.300	54.100	52.000	-3.88%	31.8	1320	1272	-3.64%



**Figure 8-1  
System Verification Setup Diagram**



**Figure 8-2  
System Verification Setup Photo**

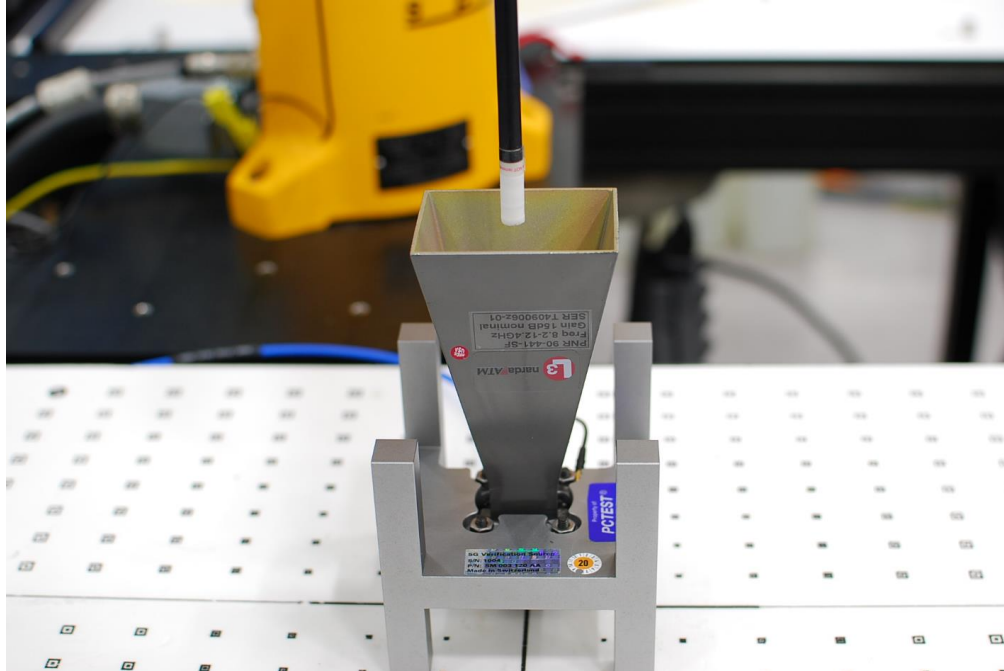
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### 8.3 Power Density Test System Verification

The system was verified to be within  $\pm 0.66$  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	Probe S/N	DAE	Prad (mW)	Normal psPD (W/m <sup>2</sup> over 4 cm <sup>2</sup> )		Deviation (dB)	Total psPD (W/m <sup>2</sup> over 4 cm <sup>2</sup> )		Deviation (dB)
							Measured	Target		Measured	Target	
AM5	10	06/12/2024	1006	9407	793	93.3	51.80	58.50	-0.5283	51.90	58.90	-0.5495

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

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# 9 SAR DATA SUMMARY

## 9.1 2.4 GHz WIFI SISO Standalone SAR

Table 9-1 Antenna WF8

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	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]	Plot #
Body	2.4 GHz WIFI / IEEE 802.11b	22	DSSS	WF8	FYW64	99.66	0.00	2462	11	1	20.75	20.73	Back	0	V1	0.162	0.078	1.005	1.003	0.163	0.079	
Body	2.4 GHz WIFI / IEEE 802.11b	22	DSSS	WF8	FYW64	99.66	0.00	2412	1	1	20.75	20.30	Top	0	V1	0.897	0.400	1.109	1.003	0.998	0.445	
Body	2.4 GHz WIFI / IEEE 802.11b	22	DSSS	WF8	FYW64	99.66	-0.10	2437	6	1	20.75	20.28	Top	0	V1	0.895	0.297	1.114	1.003	1.000	0.444	
Body	2.4 GHz WIFI / IEEE 802.11b	22	DSSS	WF8	0655P	99.66	-0.01	2462	11	1	20.75	20.46	Top	0	V2	1.010	0.438	1.068	1.003	1.083	0.470	
Body	2.4 GHz WIFI / IEEE 802.11b	22	DSSS	WF8	FYW64	99.66	0.01	2462	11	1	20.75	20.73	Top	0	V1	1.120	0.482	1.005	1.003	1.129	0.486	A1
Body	2.4 GHz WIFI / IEEE 802.11b	22	DSSS	WF8	FYW64	99.66	0.04	2462	11	1	20.75	20.73	Top	0	V1	1.050	0.486	1.005	1.003	1.099	0.470	
Body	2.4 GHz WIFI / IEEE 802.11b	22	DSSS	WF8	FYW64	99.66	-0.21	2462	11	1	20.75	20.73	Bottom	0	V1	0.028	0.010	1.005	1.003	0.028	0.010	
Body	2.4 GHz WIFI / IEEE 802.11b	22	DSSS	WF8	FYW64	99.66	-0.04	2462	11	1	20.75	20.73	Right	0	V1	0.062	0.037	1.005	1.003	0.083	0.037	
Body	2.4 GHz WIFI / IEEE 802.11b	22	DSSS	WF8	FYW64	99.66	-0.18	2462	11	1	20.75	20.73	Left	0	V1	0.009	0.002	1.005	1.003	0.009	0.002	
ANSI/IEEE CS5.1 1992 - SAFETY LIMIT																						
Spatial Peak																Body						
Uncontrolled Exposure/General Population																1.6 W/kg (mW/g)						
																averaged over 1 gram						

Note: Blue entry represents variability measurement

Table 9-2 Antenna WF7

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	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]	Plot #
Body	2.4 GHz WIFI / IEEE 802.11b	22	DSSS	WF7	7X2QW	99.66	0.01	2412	1	1	21.50	21.40	Back	0	V1	0.126	0.066	1.023	1.003	0.129	0.068	
Body	2.4 GHz WIFI / IEEE 802.11b	22	DSSS	WF7	16V54	99.66	-0.01	2412	1	1	21.50	20.98	Top	0	V2	0.789	0.347	1.127	1.003	0.892	0.392	
Body	2.4 GHz WIFI / IEEE 802.11b	22	DSSS	WF7	16V54	99.66	-0.06	2437	6	1	21.50	21.00	Top	0	V2	0.963	0.419	1.122	1.003	1.084	0.472	
Body	2.4 GHz WIFI / IEEE 802.11b	22	DSSS	WF7	7X2QW	99.66	-0.01	2462	11	1	21.50	21.20	Top	0	V1	0.920	0.392	1.072	1.003	0.989	0.421	
Body	2.4 GHz WIFI / IEEE 802.11b	22	DSSS	WF7	16V54	99.66	0.01	2462	11	1	21.50	21.21	Top	0	V2	1.040	0.451	1.069	1.003	1.115	0.484	
Body	2.4 GHz WIFI / IEEE 802.11b	22	DSSS	WF7	7X2QW	99.66	0.00	2412	1	1	21.50	21.40	Bottom	0	V1	0.022	0.009	1.023	1.003	0.023	0.009	
Body	2.4 GHz WIFI / IEEE 802.11b	22	DSSS	WF7	7X2QW	99.66	0.05	2412	1	1	21.50	21.40	Right	0	V1	0.007	0.003	1.023	1.003	0.007	0.003	
Body	2.4 GHz WIFI / IEEE 802.11b	22	DSSS	WF7	7X2QW	99.66	-0.03	2412	1	1	21.50	21.40	Left	0	V1	0.197	0.085	1.023	1.003	0.202	0.087	
ANSI/IEEE CS5.1 1992 - SAFETY LIMIT																						
Spatial Peak																Body						
Uncontrolled Exposure/General Population																1.6 W/kg (mW/g)						
																averaged over 1 gram						

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## 9.2 5 GHz WIFI SISO Standalone SAR

**Table 9-3 Antenna WF5T**

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]	Plot #
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	WF5T	VXP7G	95.24	-0.09	5290	58	U-NII-2A	29.3	15.75	15.25	Back	0	V1	0.115	0.041	1.122	1.050	0.135	0.048	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	WF5T	VXP7G	95.24	0.01	5290	58	U-NII-2A	29.3	15.75	15.25	Top	0	V1	0.000	0.000	1.122	1.050	0.000	0.000	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	WF5T	VXP7G	95.24	0.08	5290	58	U-NII-2A	29.3	15.75	15.25	Bottom	0	V1	0.000	0.000	1.122	1.050	0.000	0.000	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	WF5T	16V54	95.24	-0.07	5290	58	U-NII-2A	29.3	15.75	15.20	Right	0	V2	0.919	0.249	1.135	1.050	1.095	0.297	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	WF5T	VXP7G	95.24	-0.08	5290	58	U-NII-2A	29.3	15.75	15.25	Right	0	V1	1.000	0.258	1.122	1.050	1.178	0.304	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	WF5T	VXP7G	95.24	-0.09	5290	58	U-NII-2A	29.3	15.75	15.25	Right	0	V1	0.979	0.248	1.122	1.050	1.319	0.300	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	WF5T	VXP7G	95.24	0.01	5290	58	U-NII-2A	29.3	15.75	15.25	Left	0	V1	0.034	0.008	1.122	1.050	0.040	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						

Note: Blue entry represents variability measurement

**Table 9-4 Antenna WF5T**

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]	Plot #
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	WF5T	VXP7G	95.24	0.06	5690	138	U-NII-2C	29.3	15.00	14.14	Back	0	V1	0.077	0.024	1.219	1.050	0.099	0.031	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	WF5T	VXP7G	95.24	0.07	5690	138	U-NII-2C	29.3	15.00	14.14	Top	0	V1	0.000	0.000	1.219	1.050	0.000	0.000	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	WF5T	VXP7G	95.24	0.09	5690	138	U-NII-2C	29.3	15.00	14.14	Bottom	0	V1	0.006	0.006	1.219	1.050	0.004	0.000	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	WF5T	VXP7G	95.24	-0.05	5530	506	U-NII-2C	29.3	14.75	13.93	Right	0	V1	0.855	0.229	1.208	1.050	1.084	0.290	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	WF5T	VXP7G	95.24	0.17	5610	122	U-NII-2C	29.3	15.00	13.98	Right	0	V1	0.882	0.233	1.265	1.050	1.172	0.309	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	WF5T	26VGG	95.24	-0.17	5690	138	U-NII-2C	29.3	15.00	14.00	Right	0	V2	0.848	0.226	1.259	1.050	1.121	0.299	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	WF5T	VXP7G	95.24	0.03	5690	138	U-NII-2C	29.3	15.00	14.14	Right	0	V1	0.936	0.257	1.219	1.050	1.160	0.329	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	WF5T	VXP7G	95.24	0.04	5690	138	U-NII-2C	29.3	15.00	14.14	Left	0	V1	0.024	0.002	1.219	1.050	0.031	0.003	
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 WF5T**

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]	Plot #
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	WF5T	16V54	95.24	0.06	5775	155	U-NII-3	29.3	15.25	14.78	Back	0	V2	0.075	0.026	1.114	1.050	0.088	0.030	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	WF5T	16V54	95.24	0.04	5775	155	U-NII-3	29.3	15.25	14.78	Top	0	V2	0.000	0.000	1.114	1.050	0.000	0.000	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	WF5T	16V54	95.24	0.05	5775	155	U-NII-3	29.3	15.25	14.78	Bottom	0	V2	0.000	0.000	1.114	1.050	0.000	0.000	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	WF5T	G47F5	95.24	0.00	5775	155	U-NII-3	29.3	15.25	14.65	Right	0	V1	0.084	0.262	1.148	1.050	1.189	0.316	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	WF5T	16V54	95.24	0.02	5775	155	U-NII-3	29.3	15.25	14.78	Right	0	V2	1.020	0.279	1.114	1.050	1.169	0.326	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	WF5T	16V54	95.24	0.08	5775	155	U-NII-3	29.3	15.25	14.78	Left	0	V2	0.020	0.008	1.114	1.050	0.023	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						

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**Table 9-6 Antenna WF2**

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]	Plot #
Body	5 GHz WiFi/ IEEE 802.11n	40	OFDM	WF2	6TKHD	97.72	-0.12	5270	54	U-NII-2A	13.5	18.00	17.23	Back	0	V1	0.164	0.065	1.194	1.023	0.200	0.079	
Body	5 GHz WiFi/ IEEE 802.11n	40	OFDM	WF2	6TKHD	97.72	-0.13	5270	54	U-NII-2A	13.5	18.00	17.23	Top	0	V1	0.055	0.016	1.194	1.023	0.067	0.020	
Body	5 GHz WiFi/ IEEE 802.11n	40	OFDM	WF2	6TKHD	97.72	-0.02	5270	54	U-NII-2A	13.5	18.00	17.23	Bottom	0	V1	0.951	0.293	1.194	1.023	1.162	0.358	
Body	5 GHz WiFi/ IEEE 802.11n	40	OFDM	WF2	0G6SP	97.72	0.03	5270	54	U-NII-2A	13.5	18.00	17.11	Bottom	0	V2	0.939	0.257	1.227	1.023	1.179	0.323	
Body	5 GHz WiFi/ IEEE 802.11n	40	OFDM	WF2	0G6SP	97.72	0.00	5310	62	U-NII-2A	13.5	16.00	15.03	Bottom	0	V2	0.670	0.213	1.250	1.023	0.857	0.272	
Body	5 GHz WiFi/ IEEE 802.11n	40	OFDM	WF2	6TKHD	97.72	-0.06	5270	54	U-NII-2A	13.5	18.00	17.23	Right	0	V1	0.258	0.097	1.194	1.023	0.315	0.118	
Body	5 GHz WiFi/ IEEE 802.11n	40	OFDM	WF2	6TKHD	97.72	0.01	5270	54	U-NII-2A	13.5	18.00	17.23	Left	0	V1	0.002	0.000	1.194	1.023	0.002	0.000	
ANSI/IEEE C95.1.1992 - SAFETY LIMIT																	Body						
Spatial Peak																	1.6 W/kg (mW/g)						
Uncontrolled Exposure/General Population																	averaged over 1 gram						

**Table 9-7 Antenna WF2**

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]	Plot #
Body	5 GHz WiFi/ IEEE 802.11ac	80	OFDM	WF2	VXP7G	95.24	0.07	5610	122	U-NII-2C	29.3	17.00	16.08	Back	0	V1	0.107	0.032	1.236	1.050	0.139	0.042	
Body	5 GHz WiFi/ IEEE 802.11ac	80	OFDM	WF2	VXP7G	95.24	-0.01	5610	122	U-NII-2C	29.3	17.00	16.08	Top	0	V1	0.039	0.009	1.236	1.050	0.051	0.012	
Body	5 GHz WiFi/ IEEE 802.11ac	80	OFDM	WF2	VXP7G	95.24	0.09	5530	106	U-NII-2C	29.3	14.75	13.92	Bottom	0	V1	0.529	0.182	1.211	1.050	0.673	0.231	
Body	5 GHz WiFi/ IEEE 802.11ac	80	OFDM	WF2	VXP7G	95.24	-0.03	5610	122	U-NII-2C	29.3	17.00	16.08	Bottom	0	V1	0.910	0.315	1.236	1.050	1.181	0.409	
Body	5 GHz WiFi/ IEEE 802.11ac	80	OFDM	WF2	8CKYW	95.24	-0.08	5610	122	U-NII-2C	29.3	17.00	16.07	Bottom	0	V2	0.900	0.293	1.239	1.050	1.171	0.381	
Body	5 GHz WiFi/ IEEE 802.11ac	80	OFDM	WF2	VXP7G	95.24	0.01	5610	122	U-NII-2C	29.3	17.00	16.08	Bottom	0	V1	0.910	0.315	1.236	1.050	1.138	0.378	
Body	5 GHz WiFi/ IEEE 802.11ac	80	OFDM	WF2	VXP7G	95.24	-0.09	5690	138	U-NII-2C	29.3	17.00	16.02	Bottom	0	V1	0.881	0.287	1.253	1.050	1.159	0.378	
Body	5 GHz WiFi/ IEEE 802.11ac	80	OFDM	WF2	VXP7G	95.24	0.02	5610	122	U-NII-2C	29.3	17.00	16.08	Right	0	V1	0.213	0.062	1.236	1.050	0.276	0.080	
Body	5 GHz WiFi/ IEEE 802.11ac	80	OFDM	WF2	VXP7G	95.24	0.07	5610	122	U-NII-2C	29.3	17.00	16.08	Left	0	V1	0.002	0.000	1.236	1.050	0.003	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						

Note: Blue entry represents variability measurement

**Table 9-8 Antenna WF2**

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]	Plot #
Body	5 GHz WiFi/ IEEE 802.11ac	80	OFDM	WF2	ZGVGG	95.24	0.02	5775	155	U-NII-3	29.3	17.25	16.95	Back	0	V2	0.125	0.043	1.072	1.050	0.141	0.048	
Body	5 GHz WiFi/ IEEE 802.11ac	80	OFDM	WF2	ZGVGG	95.24	0.07	5775	155	U-NII-3	29.3	17.25	16.95	Top	0	V2	0.047	0.012	1.072	1.050	0.053	0.014	
Body	5 GHz WiFi/ IEEE 802.11ac	80	OFDM	WF2	VXP7G	95.24	0.03	5775	155	U-NII-3	29.3	17.25	16.78	Bottom	0	V1	0.982	0.321	1.114	1.050	1.149	0.375	
Body	5 GHz WiFi/ IEEE 802.11ac	80	OFDM	WF2	ZGVGG	95.24	-0.04	5775	155	U-NII-3	29.3	17.25	16.95	Bottom	0	V2	1.050	0.332	1.072	1.050	1.182	0.374	A2
Body	5 GHz WiFi/ IEEE 802.11ac	80	OFDM	WF2	ZGVGG	95.24	0.18	5775	155	U-NII-3	29.3	17.25	16.95	Bottom	0	V2	1.940	0.332	1.072	1.050	1.171	0.374	
Body	5 GHz WiFi/ IEEE 802.11ac	80	OFDM	WF2	ZGVGG	95.24	0.20	5775	155	U-NII-3	29.3	17.25	16.95	Right	0	V2	0.235	0.075	1.072	1.050	0.265	0.084	
Body	5 GHz WiFi/ IEEE 802.11ac	80	OFDM	WF2	ZGVGG	95.24	0.05	5775	155	U-NII-3	29.3	17.25	16.95	Left	0	V2	0.000	0.000	1.072	1.050	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						

Note: Blue entry represents variability measurement

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### 9.3 6 GHz WIFI SISO Standalone SAR

Table 9-9 Antenna WF5T

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]	Plot #
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF5T	7X2QW	97.95	0.05	6025	15	68.1	13.25	11.92	Back	0	V1	0.063	0.026	1.358	1.021	0.087	0.036	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF5T	7X2QW	97.95	0.07	6025	15	68.1	13.25	11.92	Top	0	V1	0.000	0.000	1.358	1.021	0.000	0.000	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF5T	7X2QW	97.95	0.09	6025	15	68.1	13.25	11.92	Bottom	0	V1	0.004	0.002	1.358	1.021	0.006	0.003	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF5T	7X2QW	97.95	0.06	6025	15	68.1	13.25	11.92	Right	0	V1	0.515	0.160	1.358	1.021	0.714	0.208	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF5T	7X2QW	97.95	0.03	6345	79	68.1	12.25	10.92	Right	0	V1	0.487	0.147	1.358	1.021	0.675	0.204	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF5T	7X2QW	97.95	0.04	6505	111	68.1	12.00	10.10	Right	0	V1	0.497	0.152	1.549	1.021	0.786	0.240	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF5T	9CKYW	97.95	0.05	6505	111	68.1	12.00	10.25	Right	0	V2	0.555	0.169	1.496	1.021	0.848	0.258	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF5T	7X2QW	97.95	0.07	6665	143	68.1	11.25	9.30	Right	0	V1	0.312	0.108	1.567	1.021	0.563	0.173	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF5T	7X2QW	97.95	0.05	6985	207	68.1	11.00	10.64	Right	0	V1	0.441	0.132	1.086	1.021	0.489	0.146	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF5T	7X2QW	97.95	0.07	6025	15	68.1	13.25	11.92	Left	0	V1	0.018	0.008	1.358	1.021	0.025	0.011	
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 9-10 Antenna WF2

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]	Plot #
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF2	K6WFP	97.95	0.04	6665	143	68.1	13.50	12.80	Back	0	V1	0.060	0.023	1.175	1.021	0.072	0.028	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF2	K6WFP	97.95	0.08	6665	143	68.1	13.50	12.80	Top	0	V1	0.010	0.003	1.175	1.021	0.012	0.004	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF2	K6WFP	97.95	-0.01	6025	15	68.1	13.00	11.52	Bottom	0	V1	0.448	0.154	1.406	1.021	0.643	0.221	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF2	K6WFP	97.95	-0.14	6345	79	68.1	13.50	12.79	Bottom	0	V1	0.546	0.168	1.178	1.021	0.657	0.202	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF2	K6WFP	97.95	0.16	6505	111	68.1	13.25	12.76	Bottom	0	V1	0.591	0.191	1.119	1.021	0.675	0.218	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF2	K6WFP	97.95	0.06	6665	143	68.1	13.50	12.80	Bottom	0	V1	0.658	0.208	1.175	1.021	0.789	0.250	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF2	9R4T3	97.95	0.08	6665	143	68.1	13.50	12.52	Bottom	0	V2	0.664	0.208	1.253	1.021	0.849	0.266	A3
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF2	K6WFP	97.95	-0.12	6985	207	68.1	13.00	12.20	Bottom	0	V1	0.569	0.170	1.202	1.021	0.698	0.209	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF2	K6WFP	97.95	0.08	6665	143	68.1	13.50	12.80	Right	0	V1	0.162	0.054	1.175	1.021	0.194	0.065	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF2	K6WFP	97.95	0.09	6665	143	68.1	13.50	12.80	Left	0	V1	0.017	0.006	1.175	1.021	0.020	0.007	
ANSI/IEEE C95.1-1992 - SAFETY LIMIT																Body						
Spatial Peak																1.6 W/kg (mW/g)						
Uncontrolled Exposure/General Population																averaged over 1 gram						

### 9.4 6 GHz WIFI Absorbed Power Density

Table 9-11 Antenna WF5T

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/m² (4cm²)]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported APD [W/m² (4cm²)]	Plot #
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF5T	7X2QW	97.95	0.05	6025	15	68.1	13.25	11.92	Back	0	V1	0.573	1.358	1.021	0.794	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF5T	7X2QW	97.95	0.07	6025	15	68.1	13.25	11.92	Top	0	V1	0.001	1.358	1.021	0.001	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF5T	7X2QW	97.95	0.09	6025	15	68.1	13.25	11.92	Bottom	0	V1	0.041	1.358	1.021	0.057	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF5T	7X2QW	97.95	0.06	6025	15	68.1	13.25	11.92	Right	0	V1	3.430	1.358	1.021	4.756	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF5T	7X2QW	97.95	0.03	6345	79	68.1	12.25	10.92	Right	0	V1	3.350	1.358	1.021	4.645	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF5T	7X2QW	97.95	0.04	6505	111	68.1	12.00	10.10	Right	0	V1	3.480	1.549	1.021	5.504	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF5T	9CKYW	97.95	0.05	6505	111	68.1	12.00	10.25	Right	0	V2	3.850	1.496	1.021	5.881	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF5T	7X2QW	97.95	0.07	6665	143	68.1	11.25	9.30	Right	0	V1	2.470	1.567	1.021	3.952	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF5T	7X2QW	97.95	0.05	6985	207	68.1	11.00	10.64	Right	0	V1	3.050	1.086	1.021	3.382	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF5T	7X2QW	97.95	0.07	6025	15	68.1	13.25	11.92	Left	0	V1	0.180	1.358	1.021	0.250	

Table 9-12 Antenna WF2

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/m² (4cm²)]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported APD [W/m² (4cm²)]	Plot #
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF2	K6WFP	97.95	0.04	6665	143	68.1	13.50	12.80	Back	0	V1	0.518	1.175	1.021	0.621	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF2	K6WFP	97.95	0.08	6665	143	68.1	13.50	12.80	Top	0	V1	0.078	1.175	1.021	0.094	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF2	K6WFP	97.95	-0.01	6025	15	68.1	13.00	11.52	Bottom	0	V1	3.480	1.406	1.021	4.996	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF2	K6WFP	97.95	-0.14	6345	79	68.1	13.50	12.79	Bottom	0	V1	3.940	1.178	1.021	4.739	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF2	K6WFP	97.95	0.16	6505	111	68.1	13.25	12.76	Bottom	0	V1	4.350	1.119	1.021	4.970	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF2	K6WFP	97.95	0.06	6665	143	68.1	13.50	12.80	Bottom	0	V1	4.760	1.175	1.021	5.710	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF2	9R4T3	97.95	0.08	6665	143	68.1	13.50	12.52	Bottom	0	V2	4.750	1.253	1.021	6.077	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF2	K6WFP	97.95	-0.12	6985	207	68.1	13.00	12.20	Bottom	0	V1	3.930	1.202	1.021	4.823	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF2	K6WFP	97.95	0.08	6665	143	68.1	13.50	12.80	Right	0	V1	1.230	1.175	1.021	1.476	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF2	K6WFP	97.95	0.09	6665	143	68.1	13.50	12.80	Left	0	V1	0.145	1.175	1.021	0.174	

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## 9.5 2.4 GHz Bluetooth SISO Standalone SAR

Table 9-13 Antenna WF8

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	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]	Plot #
Body	2.4 GHz Bluetooth	FHSS	WF8	FPMT2	76.97	-0.10	2402	0	1	19.50	18.90	Back	0	V2	0.059	0.030	1.148	1.007	0.068	0.035	
Body	2.4 GHz Bluetooth	FHSS	WF8	FPMT2	76.97	-0.07	2402	0	1	19.50	18.90	Top	0	V2	0.493	0.224	1.148	1.007	0.570	0.259	AM
Body	2.4 GHz Bluetooth	FHSS	WF8	FYW64	76.97	-0.01	2402	0	1	19.50	18.37	Top	0	V1	0.466	0.212	1.297	1.007	0.609	0.277	
Body	2.4 GHz Bluetooth	FHSS	WF8	FPMT2	76.97	0.08	2402	0	1	19.50	18.90	Bottom	0	V2	0.007	0.003	1.148	1.007	0.008	0.003	
Body	2.4 GHz Bluetooth	FHSS	WF8	FPMT2	76.97	-0.11	2402	0	1	19.50	18.90	Right	0	V2	0.052	0.025	1.148	1.007	0.060	0.029	
Body	2.4 GHz Bluetooth	FHSS	WF8	FPMT2	76.97	0.05	2402	0	1	19.50	18.90	Left	0	V2	0.000	0.000	1.148	1.007	0.000	0.000	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population															Body 1.6 W/kg (mW/g) averaged over 1 gram						

Note: 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 9-14 Antenna WF7

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	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]	Plot #
Body	2.4 GHz Bluetooth	FHSS	WF7	T979Y	76.97	0.17	2480	78	1	19.50	18.77	Back	0	V1	0.073	0.039	1.183	1.007	0.087	0.046	
Body	2.4 GHz Bluetooth	FHSS	WF7	T979Y	76.97	-0.04	2480	78	1	19.50	18.77	Top	0	V1	0.459	0.202	1.183	1.007	0.547	0.241	
Body	2.4 GHz Bluetooth	FHSS	WF7	0666P	76.97	-0.03	2480	78	1	19.50	18.75	Top	0	V2	0.412	0.179	1.245	1.007	0.516	0.224	
Body	2.4 GHz Bluetooth	FHSS	WF7	T979Y	76.97	0.06	2480	78	1	19.50	18.77	Bottom	0	V1	0.010	0.004	1.183	1.007	0.012	0.005	
Body	2.4 GHz Bluetooth	FHSS	WF7	T979Y	76.97	-0.04	2480	78	1	19.50	18.77	Right	0	V1	0.000	0.000	1.183	1.007	0.000	0.000	
Body	2.4 GHz Bluetooth	FHSS	WF7	T979Y	76.97	-0.17	2480	78	1	19.50	18.77	Left	0	V1	0.075	0.035	1.183	1.007	0.089	0.042	
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 9-15 Antenna WF2

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]	Plot #
Body	2.4 GHz Bluetooth	FHSS	WF2	FPMT2	76.97	0.07	2480	78	1	12.00	11.75	Back	0	V2	0.002	0.000	1.059	1.007	0.002	0.000	
Body	2.4 GHz Bluetooth	FHSS	WF2	FPMT2	76.97	0.02	2480	78	1	12.00	11.75	Top	0	V2	0.000	0.000	1.059	1.007	0.000	0.000	
Body	2.4 GHz Bluetooth	FHSS	WF2	FPMT2	76.97	-0.05	2480	78	1	12.00	11.75	Bottom	0	V2	0.069	0.021	1.059	1.007	0.074	0.022	
Body	2.4 GHz Bluetooth	FHSS	WF2	FYW64	76.97	-0.05	2480	78	1	12.00	11.35	Bottom	0	V1	0.052	0.015	1.161	1.007	0.061	0.018	
Body	2.4 GHz Bluetooth	FHSS	WF2	FPMT2	76.97	0.01	2480	78	1	12.00	11.75	Right	0	V2	0.000	0.000	1.059	1.007	0.000	0.000	
Body	2.4 GHz Bluetooth	FHSS	WF2	FPMT2	76.97	0.03	2480	78	1	12.00	11.75	Left	0	V2	0.000	0.000	1.059	1.007	0.000	0.000	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population															Body 1.6 W/kg (mW/g) averaged over 1 gram						

Note: 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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## 9.6 2.4 GHz 802.15.4 Standalone SAR

**Table 9-16 Antenna WF8**

Exposure	Band / Mode	Ant.	Serial Number	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	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]	Plot #
Body	802.15.4	WF8	X6FW6	-0.04	2475	25	1	20.50	19.24	Back	0	V2	0.148	0.071	1.337	0.119	0.057	
Body	802.15.4	WF8	X6FW6	0.01	2405	11	1	20.50	19.06	Top	0	V2	0.726	0.320	1.393	0.607	0.267	
Body	802.15.4	WF8	X6FW6	-0.04	2440	18	1	20.50	18.92	Top	0	V2	0.708	0.315	1.439	0.611	0.272	
Body	802.15.4	WF8	X6FW6	-0.06	2475	25	1	20.50	19.24	Top	0	V2	0.899	0.395	1.337	0.721	0.317	AS
Body	802.15.4	WF8	FYW64	0.06	2475	25	1	20.50	19.09	Top	0	V1	0.874	0.387	1.384	0.726	0.321	
Body	802.15.4	WF8	X6FW6	0.06	2475	25	1	20.50	19.24	Bottom	0	V2	0.009	0.004	1.337	0.007	0.003	
Body	802.15.4	WF8	X6FW6	-0.03	2475	25	1	20.50	19.24	Right	0	V2	0.073	0.034	1.337	0.059	0.027	
Body	802.15.4	WF8	X6FW6	0.08	2475	25	1	20.50	19.24	Left	0	V2	0.007	0.002	1.337	0.006	0.002	
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 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%.

**Table 9-17 Antenna WF7**

Exposure	Band / Mode	Ant.	Serial Number	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	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]	Plot #
Body	802.15.4	WF7	T979Y	-0.01	2475	25	1	20.50	19.36	Back	0	V1	0.110	0.059	1.300	0.086	0.046	
Body	802.15.4	WF7	T979Y	0.00	2405	11	1	20.50	18.98	Top	0	V1	0.596	0.262	1.419	0.507	0.223	
Body	802.15.4	WF7	T979Y	0.07	2440	18	1	20.50	19.18	Top	0	V1	0.674	0.292	1.355	0.548	0.237	
Body	802.15.4	WF7	T979Y	0.03	2475	25	1	20.50	19.36	Top	0	V1	0.744	0.319	1.300	0.580	0.249	
Body	802.15.4	WF7	16V54	-0.01	2475	25	1	20.50	19.18	Top	0	V2	0.741	0.315	1.355	0.602	0.256	
Body	802.15.4	WF7	T979Y	0.08	2475	25	1	20.50	19.36	Bottom	0	V1	0.008	0.003	1.300	0.006	0.002	
Body	802.15.4	WF7	T979Y	0.01	2475	25	1	20.50	19.36	Right	0	V1	0.002	0.000	1.300	0.002	0.000	
Body	802.15.4	WF7	T979Y	-0.02	2475	25	1	20.50	19.36	Left	0	V1	0.145	0.065	1.300	0.113	0.051	
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 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%.

**Table 9-18 Antenna WF2**

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]	Plot #
Body	802.15.4	WF2	FYW64	-0.03	2475	25	1	12.00	11.40	Back	0	V1	0.004	0.000	1.148	0.003	0.000	
Body	802.15.4	WF2	FYW64	0.01	2475	25	1	12.00	11.40	Top	0	V1	0.000	0.000	1.148	0.000	0.000	
Body	802.15.4	WF2	FYW64	0.18	2475	25	1	12.00	11.40	Bottom	0	V1	0.082	0.025	1.148	0.056	0.017	
Body	802.15.4	WF2	FPMT2	0.02	2475	25	1	12.00	11.38	Bottom	0	V2	0.096	0.031	1.153	0.066	0.021	
Body	802.15.4	WF2	FYW64	0.02	2475	25	1	12.00	11.40	Right	0	V1	0.002	0.000	1.148	0.001	0.000	
Body	802.15.4	WF2	FYW64	0.02	2475	25	1	12.00	11.40	Left	0	V1	0.000	0.000	1.148	0.000	0.000	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population													Body 1.6 W/kg (mW/g) averaged over 1 gram					

Note: 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%.

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## 9.7 5 GHz NB UNII 1 Standalone SAR

Table 9-19 Antenna WF5T

Exposure	Band / Mode	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]	Plot #	
Body	NB U-NII 1	WF5T	FPMT2	76.97	0.04	5162	Low	8	14.50	13.66	Back	0	V2	0.055	0.020	1.213	1.007	0.067	0.024		
Body	NB U-NII 1	WF5T	FPMT2	76.97	0.01	5162	Low	8	14.50	13.66	Top	0	V2	0.000	0.000	1.213	1.007	0.000	0.000		
Body	NB U-NII 1	WF5T	FPMT2	76.97	0.02	5162	Low	8	14.50	13.66	Bottom	0	V2	0.000	0.000	1.213	1.007	0.000	0.000		
Body	NB U-NII 1	WF5T	FPMT2	76.97	-0.08	5162	Low	8	14.50	13.66	Right	0	V2	0.488	0.129	1.213	1.007	0.596	0.158		
Body	NB U-NII 1	WF5T	VXP7G	76.97	0.02	5162	Low	8	14.50	13.64	Right	0	V1	0.445	0.112	1.219	1.007	0.546	0.137		
Body	NB U-NII 1	WF5T	FPMT2	76.97	0.05	5162	Low	8	14.50	13.66	Left	0	V2	0.025	0.009	1.213	1.007	0.031	0.011		
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 9-20 Antenna WF2

Exposure	Band / Mode	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]	Plot #	
Body	NB U-NII 1	WF2	FPMT2	76.97	-0.16	5162	Low	8	14.50	13.62	Back	0	V2	0.031	0.012	1.225	1.007	0.038	0.015		
Body	NB U-NII 1	WF2	FPMT2	76.97	0.08	5162	Low	8	14.50	13.62	Top	0	V2	0.009	0.000	1.225	1.007	0.011	0.000		
Body	NB U-NII 1	WF2	VXP7G	76.97	0.08	5162	Low	8	14.50	14.02	Bottom	0	V1	0.238	0.083	1.117	1.007	0.268	0.093		
Body	NB U-NII 1	WF2	FPMT2	76.97	-0.15	5162	Low	8	14.50	13.62	Bottom	0	V2	0.262	0.084	1.225	1.007	0.323	0.104		
Body	NB U-NII 1	WF2	FPMT2	76.97	-0.19	5162	Low	8	14.50	13.62	Right	0	V2	0.065	0.024	1.225	1.007	0.080	0.030		
Body	NB U-NII 1	WF2	FPMT2	76.97	0.06	5162	Low	8	14.50	13.62	Left	0	V2	0.000	0.000	1.225	1.007	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								

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.

## 9.8 5 GHz NB UNII 3 Standalone SAR

Table 9-21 Antenna WF5T

Exposure	Band / Mode	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]	Plot #	
Body	NB U-NII 3	WF5T	X6FW6	76.97	0.19	5733	Low	1	14.50	14.38	Back	0	V2	0.065	0.025	1.028	1.007	0.067	0.026		
Body	NB U-NII 3	WF5T	X6FW6	76.97	0.01	5733	Low	1	14.50	14.38	Top	0	V2	0.004	0.000	1.028	1.007	0.004	0.000		
Body	NB U-NII 3	WF5T	X6FW6	76.97	0.02	5733	Low	1	14.50	14.38	Bottom	0	V2	0.000	0.000	1.028	1.007	0.000	0.000		
Body	NB U-NII 3	WF5T	X6FW6	76.97	0.04	5844	High	1	14.50	14.20	Right	0	V2	0.886	0.244	1.072	1.007	0.956	0.263	A6	
Body	NB U-NII 3	WF5T	VXP7G	76.97	-0.09	5844	High	1	14.50	14.04	Right	0	V1	0.725	0.199	1.112	1.007	0.812	0.223		
Body	NB U-NII 3	WF5T	X6FW6	76.97	0.07	5844	High	1	14.50	14.38	Right	0	V2	0.960	0.254	1.072	1.007	0.950	0.263		
Body	NB U-NII 3	WF5T	X6FW6	76.97	-0.01	5733	Low	1	14.50	14.38	Right	0	V2	0.821	0.223	1.028	1.007	0.850	0.231		
Body	NB U-NII 3	WF5T	X6FW6	76.97	0.07	5789	Mid	1	14.50	14.29	Right	0	V2	0.862	0.234	1.050	1.007	0.911	0.247		
Body	NB U-NII 3	WF5T	X6FW6	76.97	0.07	5733	Low	1	14.50	14.38	Left	0	V2	0.020	0.006	1.028	1.007	0.021	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

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 9-22 Antenna WF2

Exposure	Band / Mode	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]	Plot #	
Body	NB U-NII 3	WF2	VXP7G	76.97	0.03	5733	Low	1	14.50	13.91	Back	0	V1	0.069	0.025	1.146	1.007	0.080	0.029		
Body	NB U-NII 3	WF2	VXP7G	76.97	0.04	5733	Low	1	14.50	13.91	Top	0	V1	0.015	0.001	1.146	1.007	0.017	0.001		
Body	NB U-NII 3	WF2	2GVGG	76.97	-0.04	5733	Low	1	14.50	14.10	Bottom	0	V2	0.451	0.142	1.096	1.007	0.498	0.157		
Body	NB U-NII 3	WF2	VXP7G	76.97	-0.01	5733	Low	1	14.50	13.91	Bottom	0	V1	0.452	0.145	1.146	1.007	0.522	0.167		
Body	NB U-NII 3	WF2	VXP7G	76.97	0.02	5733	Low	1	14.50	13.91	Right	0	V1	0.101	0.032	1.146	1.007	0.117	0.037		
Body	NB U-NII 3	WF2	VXP7G	76.97	0.05	5733	Low	1	14.50	13.91	Left	0	V1	0.003	0.000	1.146	1.007	0.003	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								

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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## 9.9 wPT Standalone SAR

**Table 9-23 Antenna wPT**

Exposure	Band / Mode	Service / Modulation	Serial Number	Power Drift [dB]	Frequency [MHz]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Plot #
Body	wPT	CW	VXP7G	0.02	13.56	Back	0	0.023	0.005	A7
Body	wPT	CW	VXP7G	0.01	13.56	Top	0	0.000	0.000	
Body	wPT	CW	VXP7G	0.01	13.56	Bottom	0	0.000	0.000	
Body	wPT	CW	VXP7G	0.03	13.56	Right	0	0.002	0.000	
Body	wPT	CW	VXP7G	0.02	13.56	Left	0	0.000	0.000	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						Body 1.6 W/kg (mW/g) averaged over 1 gram				

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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 11 for variability analysis.
7. FCC KDB Publication 616217 D04v01r02 Section 4.3, SAR tests are required for the back surface and edges of the tablet with the tablet touching the phantom. The SAR Exclusion Threshold in FCC KDB 447498 D04v01 was applied to determine SAR test exclusion for adjacent edge configurations.
8. This device utilizes power reduction for some wireless modes and technologies, as outlined in Section 1.2. The maximum output power allowed for each transmitter and exposure condition was evaluated for SAR compliance based on expected use conditions and simultaneous transmission scenarios.
9. The orange highlights throughout the report represent the highest scaled SAR per Equipment Class.
10. Per FCC guidance, SAR was performed using 6.5 GHz SAR probe calibration factors. Per October 2020 TCB Workshop notes, 5 channels were tested. Absorbed power density (APD) using a 4cm<sup>2</sup> 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 Section 11 for complete analysis.
4. When the maximum reported 1g averaged SAR is  $\leq 0.8$  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  $\leq 1.20$  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 7.6 and 7.11 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 7.8 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 (λ)	iPD (W/m <sup>2</sup> )	Scaling Factor for Measurement Uncertainty per IEC 62479	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Normal psPD (W/m <sup>2</sup> )	Scaled Normal psPD (W/m <sup>2</sup> )	Total psPD (W/m <sup>2</sup> )	Scaled Total psPD (W/m <sup>2</sup> )	Plot #
6025	15	802.11ax	OFDM	160	13.25	11.92	0.03	2	WF5T	V1	7XQ2W	68.1	Back	97.95	0.25	1.420	1.554	1.358	1.021	0.458	0.987	0.579	1.248	
6025	15	802.11ax	OFDM	160	13.25	11.92	0.07	2	WF5T	V1	7XQ2W	68.1	Top	97.95	0.25	0.637	1.554	1.358	1.021	0.131	0.282	0.149	0.321	
6025	15	802.11ax	OFDM	160	13.25	11.92	-0.01	2	WF5T	V1	7XQ2W	68.1	Bottom	97.95	0.25	2.930	1.554	1.358	1.021	0.355	0.765	0.372	0.802	
6025	15	802.11ax	OFDM	160	13.25	11.92	0.09	2	WF5T	V1	7XQ2W	68.1	Right	97.95	0.041	1.310	1.554	1.358	1.021	2.570	5.537	3.280	7.067	
6345	79	802.11ax	OFDM	160	12.25	10.92	0.01	2	WF5T	V1	7XQ2W	68.1	Right	97.95	0.041	1.220	1.554	1.358	1.021	2.870	6.184	3.290	7.089	
6505	111	802.11ax	OFDM	160	12.00	10.10	-0.04	2	WF5T	V1	7XQ2W	68.1	Right	97.95	0.041	1.110	1.554	1.549	1.021	2.380	5.554	2.870	7.054	
6665	143	802.11ax	OFDM	160	11.25	9.30	-0.06	2	WF5T	V1	7XQ2W	68.1	Right	97.95	0.041	1.170	1.554	1.567	1.021	2.380	5.917	2.730	6.787	
6985	207	802.11ax	OFDM	160	11.00	10.64	-0.03	2	WF5T	V1	7XQ2W	68.1	Right	97.95	0.041	1.430	1.554	1.086	1.021	3.650	6.289	4.110	7.082	A8
6025	15	802.11ax	OFDM	160	13.25	11.92	0.04	2	WF5T	V1	7XQ2W	68.1	Left	97.95	0.25	1.070	1.554	1.358	1.021	0.202	0.435	0.212	0.457	
6345	79	802.11ax	OFDM	160	12.25	10.92	0.08	9.45	WF5T	V1	7XQ2W	68.1	Right	97.95	0.041	0.437	1.554	1.358	1.021	0.989	2.131	1.070	2.305	
6025	15	802.11ax	OFDM	160	13.25	11.92	-0.15	9.95	WF5T	V1	7XQ2W	68.1	Back	97.95	0.25	0.518	1.554	1.358	1.021	0.254	0.547	0.272	0.586	
6025	143	802.11ax	OFDM	160	13.50	12.80	-0.02	2	WF2	V1	KBWFP	68.1	Back	97.95	0.041	0.368	1.554	1.175	1.021	0.440	0.820	0.503	0.938	
6025	143	802.11ax	OFDM	160	13.50	12.80	0.12	2	WF2	V1	KBWFP	68.1	Top	97.95	0.041	0.190	1.554	1.175	1.021	0.162	0.302	0.183	0.341	
6025	15	802.11ax	OFDM	160	13.00	11.52	0.12	2	WF2	V1	KBWFP	68.1	Bottom	97.95	0.041	1.330	1.554	1.406	1.021	2.590	5.778	3.170	7.072	
6345	79	802.11ax	OFDM	160	13.50	12.79	-0.05	2	WF2	V1	KBWFP	68.1	Bottom	97.95	0.041	1.490	1.554	1.178	1.021	2.880	5.383	3.770	7.046	
6505	111	802.11ax	OFDM	160	13.25	12.76	0.09	2	WF2	V1	KBWFP	68.1	Bottom	97.95	0.041	1.890	1.554	1.119	1.021	3.490	6.196	3.990	7.084	
6665	143	802.11ax	OFDM	160	13.50	12.80	0.00	2	WF2	V1	KBWFP	68.1	Bottom	97.95	0.041	1.570	1.554	1.175	1.021	3.410	6.357	3.800	7.084	
6985	207	802.11ax	OFDM	160	13.00	12.20	-0.17	2	WF2	V1	KBWFP	68.1	Bottom	97.95	0.041	1.480	1.554	1.202	1.021	3.340	6.370	3.710	7.075	
6505	143	802.11ax	OFDM	160	13.50	12.80	0.03	2	WF2	V1	KBWFP	68.1	Right	97.95	0.041	0.402	1.554	1.175	1.021	0.441	0.822	0.520	0.969	
6505	143	802.11ax	OFDM	160	13.50	12.80	0.09	2	WF2	V1	KBWFP	68.1	Left	97.95	0.041	0.382	1.554	1.175	1.021	0.247	0.460	0.255	0.475	
6665	143	802.11ax	OFDM	160	13.50	12.80	0.17	9	WF2	V1	KBWFP	68.1	Bottom	97.95	0.041	1.160	1.554	1.175	1.021	1.080	2.013	1.310	2.442	
47 CFR §1.1310 - SAFETY LIMIT Spatial Average Uncontrolled Exposure / General Population											Power Density 10 W/m <sup>2</sup> averaged over 4 cm <sup>2</sup>													

## 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  $\lambda/4$ .
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 FCC MULTI-TX AND ANTENNA SAR CONSIDERATIONS

## 10.1 Introduction

The following procedures adopted from FCC KDB Publication 447498 D04v01 are applicable to devices with built-in unlicensed transmitters such as 802.11 and Bluetooth devices which may simultaneously transmit with the licensed transmitter.

## 10.2 Simultaneous Transmission Procedures

This device contains transmitters that may operate simultaneously. Therefore, simultaneous transmission analysis is required. Per FCC KDB Publication 447498 D04v01 4.3.2 and IEEE 1528-2013 Section 6.3.4.1.2, simultaneous transmission SAR test exclusion may be applied when the sum of the 1g SAR for all the simultaneous transmitting antennas in a specific a physical test configuration is  $\leq 1.6$  W/kg. The different test positions in an exposure condition may be considered collectively to determine SAR test exclusion according to the sum of 1g or 10g SAR.

Note:

SAR Summations for some scenarios when the output power levels are reduced, SAR values at the maximum output power level were used as the most conservative evaluation for simultaneous transmission analysis.

\*The SAR distributions for at least one of the antennas are spatially separated from the other antennas per FCC KDB Publication 248227 Section 6.1 procedures. Therefore, simultaneous transmission were treated independently for this configuration. See section 11.4 for more information about the Spatial Separation Analysis.

In some cases where simultaneous transmission scenarios overlap with the same power level (for example, cellular band + 2.4 GHz WIFI SISO and cellular band + 2.4 GHz WIFI MIMO), the most conservative SAR summation scenario was evaluated.

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### 10.3 Body SAR Simultaneous Transmission Analysis

**Table 10-1**  
**Simultaneous Transmission Scenario with 2.4 GHz WIFI MIMO and wPT**

Simult Tx	Configuration	2.4 GHz WIFI Ant WF8 SAR (W/kg)	2.4 GHz WIFI Ant WF7 SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Body SAR	Back	0.163	0.129	0.023	0.315
	Top	1.129	1.115	0.000	1.129*
	Bottom	0.028	0.023	0.000	0.051
	Right	0.083	0.007	0.002	0.092
	Left	0.009	0.202	0.000	0.211

**Table 10-2**  
**Simultaneous Transmission Scenario with 5 GHz WIFI MIMO and wPT**

Simult Tx	Configuration	5 GHz WIFI Ant WF5T SAR (W/kg)	5 GHz WIFI Ant WF2 SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Body SAR	Back	0.135	0.200	0.023	0.358
	Top	0.000	0.067	0.000	0.067
	Bottom	0.000	1.182	0.000	1.182
	Right	1.193	0.315	0.002	1.510
	Left	0.040	0.003	0.000	0.043

**Table 10-3**  
**Simultaneous Transmission Scenario with 6 GHz WIFI MIMO and wPT**

Simult Tx	Configuration	6 GHz WIFI Ant WF5T SAR (W/kg)	6 GHz WIFI Ant WF2 SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Body SAR	Back	0.087	0.072	0.023	0.182
	Top	0.000	0.012	0.000	0.012
	Bottom	0.006	0.849	0.000	0.855
	Right	0.848	0.194	0.002	1.044
	Left	0.025	0.020	0.000	0.045

**Table 10-4**  
**Simultaneous Transmission Scenario with 2.4 GHz Bluetooth TXBF and wPT**

Simult Tx	Configuration	2.4 GHz Bluetooth Ant WF8 SAR (W/kg)	2.4 GHz Bluetooth Ant WF7 SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Body SAR	Back	0.068	0.087	0.023	0.178
	Top	0.609	0.547	0.000	1.156
	Bottom	0.008	0.012	0.000	0.020
	Right	0.060	0.000	0.002	0.062
	Left	0.000	0.089	0.000	0.089

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**Table 10-5**  
**Simultaneous Transmission Scenario with NB U-NII TXBF and wPT**

Simult Tx	Configuration	NB U-NII Ant WF5T SAR (W/kg)	NB U-NII Ant WF2 SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Body SAR	Back	0.067	0.080	0.023	0.170
	Top	0.004	0.017	0.000	0.021
	Bottom	0.000	0.522	0.000	0.522
	Right	0.956	0.117	0.002	1.075
	Left	0.031	0.003	0.000	0.034

**Table 10-6**  
**Simultaneous Transmission Scenario with 2.4 GHz WIFI, 2.4 GHz Bluetooth and wPT**

Simult Tx	Configuration	2.4 GHz WIFI Ant WF8 SAR (W/kg)	2.4 GHz Bluetooth Ant WF7 SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Body SAR	Back	0.163	0.087	0.023	0.273
	Top	1.129	0.547	0.000	1.129*
	Bottom	0.028	0.012	0.000	0.040
	Right	0.083	0.000	0.002	0.085
	Left	0.009	0.089	0.000	0.098

**Table 10-7**  
**Simultaneous Transmission Scenario with 2.4 GHz WIFI, 802.15.4 and wPT**

Simult Tx	Configuration	2.4 GHz WIFI Ant WF8 SAR (W/kg)	802.15.4 Ant WF7 SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Body SAR	Back	0.163	0.086	0.023	0.272
	Top	1.129	0.602	0.000	1.129*
	Bottom	0.028	0.006	0.000	0.034
	Right	0.083	0.002	0.002	0.087
	Left	0.009	0.113	0.000	0.122

**Table 10-8**  
**Simultaneous Transmission Scenario with 2.4 GHz Bluetooth, 5 GHz WIFI and wPT**

Simult Tx	Configuration	2.4 GHz Bluetooth Ant WF8 SAR (W/kg)	5 GHz WIFI Ant WF5T SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Body SAR	Back	0.068	0.135	0.023	0.226
	Top	0.609	0.000	0.000	0.609
	Bottom	0.008	0.000	0.000	0.008
	Right	0.060	1.193	0.002	1.255
	Left	0.000	0.040	0.000	0.040

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**Table 10-9**  
**Simultaneous Transmission Scenario with 2.4 GHz Bluetooth, 5 GHz WIFI and wPT**

Simult Tx	Configuration	2.4 GHz Bluetooth Ant WF7 SAR (W/kg)	5 GHz WIFI Ant WF5T SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Body SAR	Back	0.087	0.135	0.023	0.245
	Top	0.547	0.000	0.000	0.547
	Bottom	0.012	0.000	0.000	0.012
	Right	0.000	1.193	0.002	1.195
	Left	0.089	0.040	0.000	0.129

**Table 10-10**  
**Simultaneous Transmission Scenario with 2.4 GHz Bluetooth, 5 GHz WIFI and wPT**

Simult Tx	Configuration	2.4 GHz Bluetooth Ant WF8 SAR (W/kg)	5 GHz WIFI Ant WF2 SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Body SAR	Back	0.068	0.200	0.023	0.291
	Top	0.609	0.067	0.000	0.676
	Bottom	0.008	1.182	0.000	1.190
	Right	0.060	0.315	0.002	0.377
	Left	0.000	0.003	0.000	0.003

**Table 10-11**  
**Simultaneous Transmission Scenario with 2.4 GHz Bluetooth, 5 GHz WIFI and wPT**

Simult Tx	Configuration	2.4 GHz Bluetooth Ant WF7 SAR (W/kg)	5 GHz WIFI Ant WF2 SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Body SAR	Back	0.087	0.200	0.023	0.310
	Top	0.547	0.067	0.000	0.614
	Bottom	0.012	1.182	0.000	1.194
	Right	0.000	0.315	0.002	0.317
	Left	0.089	0.003	0.000	0.092

**Table 10-12**  
**Simultaneous Transmission Scenario with 802.15.4, 5 GHz WIFI and wPT**

Simult Tx	Configuration	802.15.4 Ant WF8 SAR (W/kg)	5 GHz WIFI Ant WF5T SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Body SAR	Back	0.119	0.135	0.023	0.277
	Top	0.726	0.000	0.000	0.726
	Bottom	0.007	0.000	0.000	0.007
	Right	0.059	1.193	0.002	1.254
	Left	0.006	0.040	0.000	0.046

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**Table 10-13**  
**Simultaneous Transmission Scenario with 802.15.4, 5 GHz WIFI and wPT**

Simult Tx	Configuration	802.15.4 Ant WF7 SAR (W/kg)	5 GHz WIFI Ant WF5T SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Body SAR	Back	0.086	0.135	0.023	0.244
	Top	0.602	0.000	0.000	0.602
	Bottom	0.006	0.000	0.000	0.006
	Right	0.002	1.193	0.002	1.197
	Left	0.113	0.040	0.000	0.153

**Table 10-14**  
**Simultaneous Transmission Scenario with 802.15.4, 5 GHz WIFI and wPT**

Simult Tx	Configuration	802.15.4 Ant WF8 SAR (W/kg)	5 GHz WIFI Ant WF2 SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Body SAR	Back	0.119	0.200	0.023	0.342
	Top	0.726	0.067	0.000	0.793
	Bottom	0.007	1.182	0.000	1.189
	Right	0.059	0.315	0.002	0.376
	Left	0.006	0.003	0.000	0.009

**Table 10-15**  
**Simultaneous Transmission Scenario with 802.15.4, 5 GHz WIFI and wPT**

Simult Tx	Configuration	802.15.4 Ant WF7 SAR (W/kg)	5 GHz WIFI Ant WF2 SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Body SAR	Back	0.086	0.200	0.023	0.309
	Top	0.602	0.067	0.000	0.669
	Bottom	0.006	1.182	0.000	1.188
	Right	0.002	0.315	0.002	0.319
	Left	0.113	0.003	0.000	0.116

**Table 10-16**  
**Simultaneous Transmission Scenario with 2.4 GHz Bluetooth, 6 GHz WIFI and wPT**

Simult Tx	Configuration	2.4 GHz Bluetooth Ant WF8 SAR (W/kg)	6 GHz WIFI Ant WF5T SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Body SAR	Back	0.068	0.087	0.023	0.178
	Top	0.609	0.000	0.000	0.609
	Bottom	0.008	0.006	0.000	0.014
	Right	0.060	0.848	0.002	0.910
	Left	0.000	0.025	0.000	0.025

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**Table 10-17**  
**Simultaneous Transmission Scenario with 2.4 GHz Bluetooth, 6 GHz WIFI and wPT**

Simult Tx	Configuration	2.4 GHz Bluetooth Ant WF7 SAR (W/kg)	6 GHz WIFI Ant WF5T SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Body SAR	Back	0.087	0.087	0.023	0.197
	Top	0.547	0.000	0.000	0.547
	Bottom	0.012	0.006	0.000	0.018
	Right	0.000	0.848	0.002	0.850
	Left	0.089	0.025	0.000	0.114

**Table 10-18**  
**Simultaneous Transmission Scenario with 2.4 GHz Bluetooth, 6 GHz WIFI and wPT**

Simult Tx	Configuration	2.4 GHz Bluetooth Ant WF8 SAR (W/kg)	6 GHz WIFI Ant WF2 SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Body SAR	Back	0.068	0.072	0.023	0.163
	Top	0.609	0.012	0.000	0.621
	Bottom	0.008	0.849	0.000	0.857
	Right	0.060	0.194	0.002	0.256
	Left	0.000	0.020	0.000	0.020

**Table 10-19**  
**Simultaneous Transmission Scenario with 2.4 GHz Bluetooth, 6 GHz WIFI and wPT**

Simult Tx	Configuration	2.4 GHz Bluetooth Ant WF7 SAR (W/kg)	6 GHz WIFI Ant WF2 SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Body SAR	Back	0.087	0.072	0.023	0.182
	Top	0.547	0.012	0.000	0.559
	Bottom	0.012	0.849	0.000	0.861
	Right	0.000	0.194	0.002	0.196
	Left	0.089	0.020	0.000	0.109

**Table 10-20**  
**Simultaneous Transmission Scenario with 802.15.4, 6 GHz WIFI and wPT**

Simult Tx	Configuration	802.15.4 Ant WF8 SAR (W/kg)	6 GHz WIFI Ant WF5T SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Body SAR	Back	0.119	0.087	0.023	0.229
	Top	0.726	0.000	0.000	0.726
	Bottom	0.007	0.006	0.000	0.013
	Right	0.059	0.848	0.002	0.909
	Left	0.006	0.025	0.000	0.031

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**Table 10-21**  
**Simultaneous Transmission Scenario with 802.15.4, 6 GHz WIFI and wPT**

Simult Tx	Configuration	802.15.4 Ant WF7 SAR (W/kg)	6 GHz WIFI Ant WF5T SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Body SAR	Back	0.086	0.087	0.023	0.196
	Top	0.602	0.000	0.000	0.602
	Bottom	0.006	0.006	0.000	0.012
	Right	0.002	0.848	0.002	0.852
	Left	0.113	0.025	0.000	0.138

**Table 10-22**  
**Simultaneous Transmission Scenario with 802.15.4, 6 GHz WIFI and wPT**

Simult Tx	Configuration	802.15.4 Ant WF8 SAR (W/kg)	6 GHz WIFI Ant WF2 SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Body SAR	Back	0.119	0.072	0.023	0.214
	Top	0.726	0.012	0.000	0.738
	Bottom	0.007	0.849	0.000	0.856
	Right	0.059	0.194	0.002	0.255
	Left	0.006	0.020	0.000	0.026

**Table 10-23**  
**Simultaneous Transmission Scenario with 802.15.4, 6 GHz WIFI and wPT**

Simult Tx	Configuration	802.15.4 Ant WF7 SAR (W/kg)	6 GHz WIFI Ant WF2 SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Body SAR	Back	0.086	0.072	0.023	0.181
	Top	0.602	0.012	0.000	0.614
	Bottom	0.006	0.849	0.000	0.855
	Right	0.002	0.194	0.002	0.198
	Left	0.113	0.020	0.000	0.133

**Table 10-24**  
**Simultaneous Transmission Scenario with 2.4 GHz Bluetooth, 5 GHz WIFI MIMO and wPT**

Simult Tx	Configuration	2.4 GHz Bluetooth Ant WF8 SAR (W/kg)	5 GHz WIFI Ant WF5T SAR (W/kg)	5 GHz WIFI Ant WF2 SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.068	0.135	0.200	0.023	0.426
	Top	0.609	0.000	0.067	0.000	0.676
	Bottom	0.008	0.000	1.182	0.000	1.190
	Right	0.060	1.193	0.315	0.002	1.570
	Left	0.000	0.040	0.003	0.000	0.043

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**Table 10-25**  
**Simultaneous Transmission Scenario with 2.4 GHz Bluetooth, 5 GHz WIFI MIMO and wPT**

Simult Tx	Configuration	2.4 GHz Bluetooth Ant WF7 SAR (W/kg)	5 GHz WIFI Ant WF5T SAR (W/kg)	5 GHz WIFI Ant WF2 SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.087	0.135	0.200	0.023	0.445
	Top	0.547	0.000	0.067	0.000	0.614
	Bottom	0.012	0.000	1.182	0.000	1.194
	Right	0.000	1.193	0.315	0.002	1.510
	Left	0.089	0.040	0.003	0.000	0.132

**Table 10-26**  
**Simultaneous Transmission Scenario with 2.4 GHz Bluetooth, 6 GHz WIFI MIMO and wPT**

Simult Tx	Configuration	2.4 GHz Bluetooth Ant WF8 SAR (W/kg)	6 GHz WIFI Ant WF5T SAR (W/kg)	6 GHz WIFI Ant WF2 SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.068	0.087	0.072	0.023	0.250
	Top	0.609	0.000	0.012	0.000	0.621
	Bottom	0.008	0.006	0.849	0.000	0.863
	Right	0.060	0.848	0.194	0.002	1.104
	Left	0.000	0.025	0.020	0.000	0.045

**Table 10-27**  
**Simultaneous Transmission Scenario with 2.4 GHz Bluetooth, 6 GHz WIFI MIMO and wPT**

Simult Tx	Configuration	2.4 GHz Bluetooth Ant WF7 SAR (W/kg)	6 GHz WIFI Ant WF5T SAR (W/kg)	6 GHz WIFI Ant WF2 SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.087	0.087	0.072	0.023	0.269
	Top	0.547	0.000	0.012	0.000	0.559
	Bottom	0.012	0.006	0.849	0.000	0.867
	Right	0.000	0.848	0.194	0.002	1.044
	Left	0.089	0.025	0.020	0.000	0.134

**Table 10-28**  
**Simultaneous Transmission Scenario with 802.15.4, 5 GHz WIFI MIMO and wPT**

Simult Tx	Configuration	802.15.4 Ant WF8 SAR (W/kg)	5 GHz WIFI Ant WF5T SAR (W/kg)	5 GHz WIFI Ant WF2 SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.119	0.135	0.200	0.023	0.477
	Top	0.726	0.000	0.067	0.000	0.793
	Bottom	0.007	0.000	1.182	0.000	1.189
	Right	0.059	1.193	0.315	0.002	<b>1.569</b>
	Left	0.006	0.040	0.003	0.000	0.049

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**Table 10-29**  
**Simultaneous Transmission Scenario with 802.15.4, 5 GHz WIFI MIMO and wPT**

Simult Tx	Configuration	802.15.4 Ant WF7 SAR (W/kg)	5 GHz WIFI Ant WF5T SAR (W/kg)	5 GHz WIFI Ant WF2 SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.086	0.135	0.200	0.023	0.444
	Top	0.602	0.000	0.067	0.000	0.669
	Bottom	0.006	0.000	1.182	0.000	1.188
	Right	0.002	1.193	0.315	0.002	1.512
	Left	0.113	0.040	0.003	0.000	0.156

**Table 10-30**  
**Simultaneous Transmission Scenario with 802.15.4, 6 GHz WIFI MIMO and wPT**

Simult Tx	Configuration	802.15.4 Ant WF8 SAR (W/kg)	6 GHz WIFI Ant WF5T SAR (W/kg)	6 GHz WIFI Ant WF2 SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.119	0.087	0.072	0.023	0.301
	Top	0.726	0.000	0.012	0.000	0.738
	Bottom	0.007	0.006	0.849	0.000	0.862
	Right	0.059	0.848	0.194	0.002	1.103
	Left	0.006	0.025	0.020	0.000	0.051

**Table 10-31**  
**Simultaneous Transmission Scenario with 802.15.4, 6 GHz WIFI MIMO and wPT**

Simult Tx	Configuration	802.15.4 Ant WF7 SAR (W/kg)	6 GHz WIFI Ant WF5T SAR (W/kg)	6 GHz WIFI Ant WF2 SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.086	0.087	0.072	0.023	0.268
	Top	0.602	0.000	0.012	0.000	0.614
	Bottom	0.006	0.006	0.849	0.000	0.861
	Right	0.002	0.848	0.194	0.002	1.046
	Left	0.113	0.025	0.020	0.000	0.158

**Table 10-32**  
**Simultaneous Transmission Scenario with 2.4 GHz Bluetooth TXBF, 5 GHz WIFI and wPT**

Simult Tx	Configuration	2.4 GHz Bluetooth Ant WF8 SAR (W/kg)	2.4 GHz Bluetooth Ant WF7 SAR (W/kg)	5 GHz WIFI Ant WF5T SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.068	0.087	0.135	0.023	0.313
	Top	0.609	0.547	0.000	0.000	1.156
	Bottom	0.008	0.012	0.000	0.000	0.020
	Right	0.060	0.000	1.193	0.002	1.255
	Left	0.000	0.089	0.040	0.000	0.129

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**Table 10-33**  
**Simultaneous Transmission Scenario with 2.4 GHz Bluetooth TXBF, 5 GHz WIFI and wPT**

Simult Tx	Configuration	2.4 GHz Bluetooth Ant WF8 SAR (W/kg)	2.4 GHz Bluetooth Ant WF7 SAR (W/kg)	5 GHz WIFI Ant WF2 SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.068	0.087	0.200	0.023	0.378
	Top	0.609	0.547	0.067	0.000	1.223
	Bottom	0.008	0.012	1.182	0.000	1.202
	Right	0.060	0.000	0.315	0.002	0.377
	Left	0.000	0.089	0.003	0.000	0.092

**Table 10-34**  
**Simultaneous Transmission Scenario with 2.4 GHz Bluetooth TXBF, 6 GHz WIFI and wPT**

Simult Tx	Configuration	2.4 GHz Bluetooth Ant WF8 SAR (W/kg)	2.4 GHz Bluetooth Ant WF7 SAR (W/kg)	6 GHz WIFI Ant WF5T SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.068	0.087	0.087	0.023	0.265
	Top	0.609	0.547	0.000	0.000	1.156
	Bottom	0.008	0.012	0.006	0.000	0.026
	Right	0.060	0.000	0.848	0.002	0.910
	Left	0.000	0.089	0.025	0.000	0.114

**Table 10-35**  
**Simultaneous Transmission Scenario with 2.4 GHz Bluetooth TXBF, 6 GHz WIFI and wPT**

Simult Tx	Configuration	2.4 GHz Bluetooth Ant WF8 SAR (W/kg)	2.4 GHz Bluetooth Ant WF7 SAR (W/kg)	6 GHz WIFI Ant WF2 SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.068	0.087	0.072	0.023	0.250
	Top	0.609	0.547	0.012	0.000	1.168
	Bottom	0.008	0.012	0.849	0.000	0.869
	Right	0.060	0.000	0.194	0.002	0.256
	Left	0.000	0.089	0.020	0.000	0.109

**Table 10-36**  
**Simultaneous Transmission Scenario with 2.4 GHz Bluetooth TXBF, 5 GHz WIFI MIMO and wPT**

Simult Tx	Configuration	2.4 GHz Bluetooth Ant WF8 SAR (W/kg)	2.4 GHz Bluetooth Ant WF7 SAR (W/kg)	5 GHz WIFI Ant WF5T SAR (W/kg)	5 GHz WIFI Ant WF2 SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.068	0.087	0.135	0.200	0.023	0.513
	Top	0.609	0.547	0.000	0.067	0.000	1.223
	Bottom	0.008	0.012	0.000	1.182	0.000	1.202
	Right	0.060	0.000	1.193	0.315	0.002	1.570
	Left	0.000	0.089	0.040	0.003	0.000	0.132

**Table 10-37**  
**Simultaneous Transmission Scenario with 2.4 GHz Bluetooth TXBF, 6 GHz WIFI MIMO and wPT**

Simult Tx	Configuration	2.4 GHz Bluetooth Ant WF8 SAR (W/kg)	2.4 GHz Bluetooth Ant WF7 SAR (W/kg)	6 GHz WIFI Ant WF5T SAR (W/kg)	6 GHz WIFI Ant WF2 SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.068	0.087	0.087	0.072	0.023	0.337
	Top	0.609	0.547	0.000	0.012	0.000	1.168
	Bottom	0.008	0.012	0.006	0.849	0.000	0.875
	Right	0.060	0.000	0.848	0.194	0.002	1.104
	Left	0.000	0.089	0.025	0.020	0.000	0.134

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**Table 10-38**  
**Simultaneous Transmission Scenario with NB U-NII, 2.4 GHz WIFI and wPT**

Simult Tx	Configuration	NB U-NII Ant WF5T SAR (W/kg)	2.4 GHz WIFI Ant WF8 SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Body SAR	Back	0.067	0.163	0.023	0.253
	Top	0.004	1.129	0.000	1.133
	Bottom	0.000	0.028	0.000	0.028
	Right	0.956	0.083	0.002	1.041
	Left	0.031	0.009	0.000	0.040

**Table 10-39**  
**Simultaneous Transmission Scenario with NB U-NII, 2.4 GHz WIFI and wPT**

Simult Tx	Configuration	NB U-NII Ant WF2 SAR (W/kg)	2.4 GHz WIFI Ant WF8 SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Body SAR	Back	0.080	0.163	0.023	0.266
	Top	0.017	1.129	0.000	1.146
	Bottom	0.522	0.028	0.000	0.550
	Right	0.117	0.083	0.002	0.202
	Left	0.003	0.009	0.000	0.012

**Table 10-40**  
**Simultaneous Transmission Scenario with NB U-NII, 2.4 GHz WIFI and wPT**

Simult Tx	Configuration	NB U-NII Ant WF5T SAR (W/kg)	2.4 GHz WIFI Ant WF7 SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Body SAR	Back	0.067	0.129	0.023	0.219
	Top	0.004	1.115	0.000	1.119
	Bottom	0.000	0.023	0.000	0.023
	Right	0.956	0.007	0.002	0.965
	Left	0.031	0.202	0.000	0.233

**Table 10-41**  
**Simultaneous Transmission Scenario with NB U-NII, 2.4 GHz WIFI and wPT**

Simult Tx	Configuration	NB U-NII Ant WF2 SAR (W/kg)	2.4 GHz WIFI Ant WF7 SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Body SAR	Back	0.080	0.129	0.023	0.232
	Top	0.017	1.115	0.000	1.132
	Bottom	0.522	0.023	0.000	0.545
	Right	0.117	0.007	0.002	0.126
	Left	0.003	0.202	0.000	0.205

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**Table 10-42**  
**Simultaneous Transmission Scenario with NB U-NII, 2.4 GHz WIFI MIMO and wPT**

Simult Tx	Configuration	NB U-NII Ant WF5T SAR (W/kg)	2.4 GHz WIFI Ant WF8 SAR (W/kg)	2.4 GHz WIFI Ant WF7 SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.067	0.163	0.129	0.023	0.382
	Top	0.004	1.129	1.115	0.000	1.133*
	Bottom	0.000	0.028	0.023	0.000	0.051
	Right	0.956	0.083	0.007	0.002	1.048
	Left	0.031	0.009	0.202	0.000	0.242

**Table 10-43**  
**Simultaneous Transmission Scenario with NB U-NII, 2.4 GHz WIFI MIMO and wPT**

Simult Tx	Configuration	NB U-NII Ant WF2 SAR (W/kg)	2.4 GHz WIFI Ant WF8 SAR (W/kg)	2.4 GHz WIFI Ant WF7 SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.080	0.163	0.129	0.023	0.395
	Top	0.017	1.129	1.115	0.000	1.146*
	Bottom	0.522	0.028	0.023	0.000	0.573
	Right	0.117	0.083	0.007	0.002	0.209
	Left	0.003	0.009	0.202	0.000	0.214

**Table 10-44**  
**Simultaneous Transmission Scenario with NB U-NII TXBF, 2.4 GHz WIFI and wPT**

Simult Tx	Configuration	NB U-NII Ant WF5T SAR (W/kg)	NB U-NII Ant WF2 SAR (W/kg)	2.4 GHz WIFI Ant WF8 SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.067	0.080	0.163	0.023	0.333
	Top	0.004	0.017	1.129	0.000	1.150
	Bottom	0.000	0.522	0.028	0.000	0.550
	Right	0.956	0.117	0.083	0.002	1.158
	Left	0.031	0.003	0.009	0.000	0.043

**Table 10-45**  
**Simultaneous Transmission Scenario with NB U-NII TXBF, 2.4 GHz WIFI and wPT**

Simult Tx	Configuration	NB U-NII Ant WF5T SAR (W/kg)	NB U-NII Ant WF2 SAR (W/kg)	2.4 GHz WIFI Ant WF7 SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.067	0.080	0.129	0.023	0.299
	Top	0.004	0.017	1.115	0.000	1.136
	Bottom	0.000	0.522	0.023	0.000	0.545
	Right	0.956	0.117	0.007	0.002	1.082
	Left	0.031	0.003	0.202	0.000	0.236

**Table 10-46**  
**Simultaneous Transmission Scenario with NB U-NII TXBF, 2.4 GHz WIFI MIMO and wPT**

Simult Tx	Configuration	NB U-NII Ant WF5T SAR (W/kg)	NB U-NII Ant WF2 SAR (W/kg)	2.4 GHz WIFI Ant WF8 SAR (W/kg)	2.4 GHz WIFI Ant WF7 SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.067	0.080	0.163	0.129	0.023	0.462
	Top	0.004	0.017	1.129	1.115	0.000	1.150*
	Bottom	0.000	0.522	0.028	0.023	0.000	0.573
	Right	0.956	0.117	0.083	0.007	0.002	1.165
	Left	0.031	0.003	0.009	0.202	0.000	0.245

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**Table 10-47**  
**Simultaneous Transmission Scenario with 802.15.4, 2.4 GHz WIFI and wPT**

Simult Tx	Configuration	802.15.4 Ant WF2 SAR (W/kg)	2.4 GHz WIFI Ant WF8 SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Body SAR	Back	0.003	0.163	0.023	0.189
	Top	0.000	1.129	0.000	1.129
	Bottom	0.066	0.028	0.000	0.094
	Right	0.001	0.083	0.002	0.086
	Left	0.000	0.009	0.000	0.009

**Table 10-48**  
**Simultaneous Transmission Scenario with 2.4 GHz Bluetooth, 2.4 GHz WIFI and wPT**

Simult Tx	Configuration	2.4 GHz Bluetooth Ant WF2 SAR (W/kg)	2.4 GHz WIFI Ant WF8 SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Body SAR	Back	0.002	0.163	0.023	0.188
	Top	0.000	1.129	0.000	1.129
	Bottom	0.074	0.028	0.000	0.102
	Right	0.000	0.083	0.002	0.085
	Left	0.000	0.009	0.000	0.009

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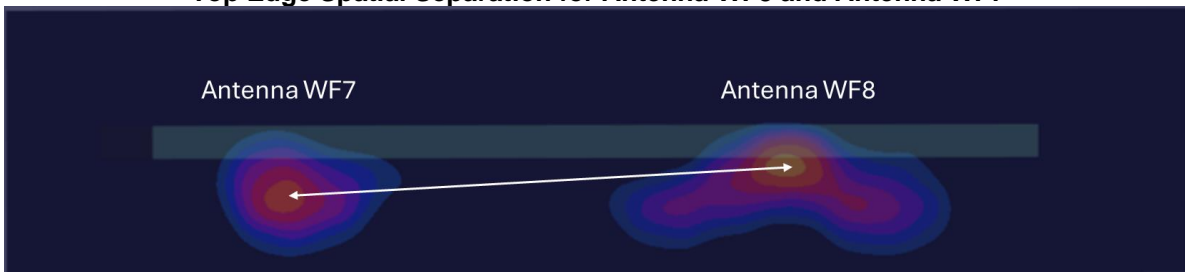
## 10.4 Spatial Separation Analysis

Per FCC KDB Publication 248227, antennas may be considered spatially separated when the aggregate SAR from multiple antennas at any location in the combined SAR distribution is either  $\leq 1.2$  W/kg where at least 90% of the SAR is attributed to a single SAR distribution or  $\leq 0.4$  W/kg where no more than one SAR distribution is contributing  $> 0.1$  W/kg.

Spatial separation was determined by inspection of the area scan SAR distributions to confirm that at all locations, SAR was  $< 1.2$  W/kg, where at least 90% of the SAR is attributed to a single SAR distribution. See below for illustrations of the spatial separated antennas considered.

### 10.4.1 Top Edge Spatial Separation Analysis

**Figure 10-1**  
**Top Edge Spatial Separation for Antenna WF8 and Antenna WF7**



## 10.5 Simultaneous Transmission Conclusion

The above numerical summed SAR results for all the worst-case simultaneous transmission conditions were below the SAR limit. Therefore, the above analysis is sufficient to determine that simultaneous transmission cases will not exceed the SAR limit and therefore no measured volumetric simultaneous SAR summation is required per FCC KDB Publication 447498 D04v01 and IEEE 1528-2013 Section 6.3.4.1.2.

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# 11 SAR MEASUREMENT VARIABILITY

## 11.1 Measurement Variability

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

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

- 1) When the original highest measured SAR is  $\geq 0.80$  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  $\geq 1.45$  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  $\geq 1.5$  W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is  $> 1.20$ .
- 4) Repeated measurements are not required when the original highest measured SAR is  $< 0.80$  W/kg.
- 5) When 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds above.

**Table 11-1  
Body SAR Measurement Variability Results**

BODY VARIABILITY RESULTS											
Band	FREQUENCY		Mode	Service	Ant	Data Rate (Mbps)	Side	Spacing	Measured SAR (1g)	1st Repeated SAR (1g)	Ratio
	MHz	Ch.							(W/kg)	(W/kg)	
2450	2462	11	2.4 GHz WIFV/IEEE 802.11b, 22 MHz Bandwidth	DSSS	Ant WF8	1	Top	0 mm	1.120	1.090	1.03
5250	5290	58	5 GHz WIFV/IEEE 802.11ac, 80 MHz Bandwidth	OFDM	Ant WF5T	29.3	Right	0 mm	1.000	0.967	1.03
5600	5600	122	5 GHz WIFV/IEEE 802.11ac, 80 MHz Bandwidth	OFDM	Ant WF2	29.3	Bottom	0 mm	0.910	0.877	1.04
5750	5775	155	5 GHz WIFV/IEEE 802.11ac, 80 MHz Bandwidth	OFDM	Ant WF2	29.3	Bottom	0 mm	1.050	1.040	1.01
5850	5844	High	NB U-NII 3	FHSS	Ant WF5T	1	Right	0 mm	0.886	0.880	1.01
<b>ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population</b>									<b>Body 1.6 W/kg (mW/g) averaged over 1 gram</b>		

## 11.2 Measurement Uncertainty

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

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# 12 EQUIPMENT LIST

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
Agilent	E4404B	Spectrum Analyzer	N/A	N/A	N/A	MY45113242
Agilent	E4438C	ESG Vector Signal Generator	11/14/2023	Annual	11/14/2024	MY45093852
Agilent	E4438C	ESG Vector Signal Generator	11/15/2023	Annual	11/15/2024	MY45092078
Agilent	N5182A	MXG Vector Signal Generator	10/12/2023	Annual	10/12/2024	MY47400015
Agilent	N5182A	MXG Vector Signal Generator	7/4/2023	Annual	7/4/2024	MY48180366
Agilent	8753ES	S-Parameter Vector Network Analyzer	1/10/2024	Annual	1/10/2025	MY40001472
Agilent	8753ES	S-Parameter Vector Network Analyzer	7/21/2023	Annual	7/21/2024	US39170118
Agilent	E5515C	Wireless Communications Test Set	CBT	N/A	CBT	GB46310798
Agilent	E5515C	Wireless Communications Test Set	CBT	N/A	CBT	US41140256
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	MA2411B	Pulse Power Sensor	8/22/2023	Annual	8/22/2024	1726262
Anritsu	MA2411B	Pulse Power Sensor	11/8/2023	Annual	11/8/2024	1027293
Anritsu	MA24106A	USB Power Sensor	12/4/2023	Annual	12/4/2024	1520501
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	4/11/2024	Annual	4/11/2025	MY54500644
Agilent	N9020A	MXA Signal Analyzer	10/17/2023	Annual	10/17/2024	MY51240479
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	7/5/2023	Annual	7/5/2024	31634
Mini-Circuits	BW-N20W5+	DC to 18 GHz Precision Fixed 20 dB Attenuator	CBT	N/A	CBT	N/A
Mini-Circuits	NLP-1200+	Low Pass Filter DC to 1000 MHz	CBT	N/A	CBT	N/A
Mini-Circuits	NLP-2950+	Low Pass Filter DC to 2700 MHz	CBT	N/A	CBT	N/A
Mini-Circuits	BW-N20W5	Power Attenuator	CBT	N/A	CBT	1226
Mini-Circuits	ZUDC10-83-S+	Directional Coupler	CBT	N/A	CBT	2050
Narda	4772-3	Attenuator (3dB)	CBT	N/A	CBT	9406
Narda	BW-S3W2	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
Rohde & Schwarz	NRX	Power Meter	1/11/2023	Biennial	1/11/2025	102583
Rohde & Schwarz	NRX	Power Meter	1/31/2023	Biennial	1/31/2025	102582
SPEAG	DAK-3.5	Dielectric Assessment Kit	11/13/2023	Annual	11/13/2024	1277
SPEAG	DAKS-3.5	Portable Dielectric Assessment Kit	8/14/2023	Annual	8/14/2024	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	10/13/2023	Annual	10/13/2024	1006
SPEAG	CLA-13	Confined Loop Antenna	11/9/2023	Annual	11/9/2024	1004
SPEAG	D2450V2	2450 MHz SAR Dipole	5/11/2022	Triennial	5/11/2025	750
SPEAG	D2450V2	2450 MHz SAR Dipole	11/9/2021	Triennial	11/9/2024	921
SPEAG	D5GHzV2	5 GHz SAR Dipole	11/17/2022	Biennial	11/17/2024	1066
SPEAG	D6.5GHzV2	6.5 GHz SAR Dipole	10/11/2023	Annual	10/11/2024	1019
SPEAG	DAE4	Dasy Data Acquisition Electronics	3/6/2024	Annual	3/6/2025	1408
SPEAG	DAE4	Dasy Data Acquisition Electronics	10/18/2023	Annual	10/18/2024	1237
SPEAG	DAE4	Dasy Data Acquisition Electronics	5/8/2024	Annual	5/8/2025	1683
SPEAG	DAE4	Dasy Data Acquisition Electronics	10/18/2023	Annual	10/18/2024	1333
SPEAG	DAE4	Dasy Data Acquisition Electronics	2/9/2024	Annual	2/9/2025	467
SPEAG	DAE4	Dasy Data Acquisition Electronics	10/18/2023	Annual	10/18/2024	793
SPEAG	EUmWV3	EUmWV3 Probe	10/9/2023	Annual	10/9/2024	9407
SPEAG	EX3DV4	SAR Probe	2/9/2024	Annual	2/9/2025	7427
SPEAG	EX3DV4	SAR Probe	3/11/2024	Annual	3/11/2025	7638
SPEAG	EX3DV4	SAR Probe	10/16/2023	Annual	10/16/2024	3746
SPEAG	EX3DV4	SAR Probe	10/16/2023	Annual	10/16/2024	7420
SPEAG	EX3DV4	SAR Probe	5/13/2024	Annual	5/13/2025	7682

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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# 13 MEASUREMENT UNCERTAINTIES

Applicable for SAR measurements < 6 GHz:

a	b	c	d	e= f(d,k)	f	g	h = c x f/e	i = c x g/e	k
Uncertainty Component	IEEE 1528 Sec.	Tol. (± %)	Prob. Dist.	Div.	c <sub>i</sub> 1gm	c <sub>i</sub> 10 gms	1gm u <sub>i</sub> (± %)	10gms u <sub>i</sub> (± %)	v <sub>i</sub>
<b>Measurement System</b>									
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	∞
<b>Test Sample Related</b>									
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	∞
<b>Phantom &amp; Tissue Parameters</b>									
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	∞
<b>Combined Standard Uncertainty (k=1)</b>	RSS						12.2	12.0	191
<b>Expanded Uncertainty</b> (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 <sub>i</sub> 1gm	c <sub>i</sub> 10 gms	1gm u <sub>i</sub> (± %)	10gms u <sub>i</sub> (± %)	v <sub>i</sub>
<b>Measurement System</b>									
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	∞
<b>Test Sample Related</b>									
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	∞
<b>Phantom &amp; Tissue Parameters</b>									
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	∞
<b>Combined Standard Uncertainty (k=1)</b>	RSS						13.8	13.6	191
<b>Expanded Uncertainty</b> (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 <sub>i</sub>	u <sub>i</sub> (± dB)	v <sub>i</sub>
<b>Measurement System</b>						
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	∞
<b>Test Sample Related</b>						
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	∞
<b>Combined Standard Uncertainty (k=1)</b>	RSS				1.34	∞
<b>Expanded Uncertainty</b> (95% CONFIDENCE LEVEL)	k=2				2.68	

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# 14 CONCLUSION

## 14.1 Measurement Conclusion

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

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

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