



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:

12/11/2023 – 1/27/2024

Test Report Issue Date:

03/27/2024

Test Site/Location:

Element, Morgan Hill, CA, USA

Document Serial No.:

1C2311270065-01.BCG (Rev 1)

FCC ID:

BCGA2898

APPLICANT:

APPLE, INC.

DUT Type:

Tablet Device

Application Type:

Certification

FCC Rule Part(s):

CFR §2.1093

Models:

A2898

Equipment Class	Band & Mode	Tx Frequency	SAR 1g Body (W/kg)
DTS	2.4 GHz WFI	2412 - 2472 MHz	1.18
NI	5 GHz WFI	U-NB-1: 5180 - 5240 MHz U-NB-2A: 5260 - 5320 MHz U-NB-2C: 5300 - 5720 MHz U-NB-3: 5740 - 5820 MHz	1.18
BCD	6 GHz WFI	U-NB-5: 6535 - 6415 MHz U-NB-6: 6435 - 6515 MHz U-NB-7: 6535 - 6675 MHz U-NB-8: 6695 - 7115 MHz	1.18
DSSDTS	2.4 GHz Bluetooth	2402 - 2480 MHz	1.18
DTS	802.11a	2405 - 2475 MHz	0.70
NI	NI-U-NB-1	5162 - 5245 MHz	0.37
NI	NI-U-NB-3	5731 - 5844 MHz	0.70
DOX	WIFI	11.55 MHz	0.1
Simultaneous SAR per IC03 690743 DO1v01-03			1.49
Equipment Class	Band & Mode	Tx Frequency	ACQ (dBm/100g) Body
BCD	6 GHz WFI	U-NB-5: 6535 - 6415 MHz U-NB-6: 6435 - 6515 MHz U-NB-7: 6535 - 6675 MHz U-NB-8: 6695 - 7115 MHz	8.39
Equipment Class	Band & Mode	Tx Frequency	Reported PD (W/m²)
BCD	6 GHz WFI	U-NB-5: 6535 - 6415 MHz U-NB-6: 6435 - 6515 MHz U-NB-7: 6535 - 6675 MHz U-NB-8: 6695 - 7115 MHz	6.93

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 Ortancz

Executive Vice President



Prepared by: WKR 010008

Reviewed by: WKR 006266



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@mwfa.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

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

Additionally, this device uses an independent mechanism that limits WIFI powers to a time-averaged output power. For the purposes of this test report, all SAR measurements were performed with the algorithm disabled at the maximum time-averaged output power level. Verification data for this time-averaged SAR mechanism can be found in the WLAN Time-Averaged SAR Verification Appendix.

1.3 Nominal and Maximum Output Power Specifications

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

The tolerances specified in the tables in this document refers to conducted tolerances.

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1.3.1

Maximum WLAN Time-Averaged Output Power

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

Mode	IEEE 802.11 (Maximum in dBm) - WF7b Tolerance (+0/-3 dB)						
	Channel	SISO				MIMO	
		b	g	n	ax SU	g/n	ax SU
2.4 GHz WIFI 20 MHz Bandwidth	1	21.25	14.50	14.50	14.50	14.00	14.00
	2	21.25	19.50	19.50	18.00	19.00	17.00
	3	21.25	20.75	20.75	19.50	20.00	19.00
	4	21.25	21.00	21.00	20.50	20.50	19.50
	5	21.25	21.25	21.25	21.25	21.25	21.00
	6	21.25	21.25	21.25	21.25	21.25	21.25
	7	21.25	21.25	21.25	21.25	21.25	21.00
	8	21.25	21.00	21.00	20.50	21.00	20.00
	9	21.25	20.75	20.75	20.50	20.50	20.00
	10	21.25	20.50	20.50	18.50	20.00	18.50
	11	21.25	17.50	17.50	16.50	16.50	16.50
	12	20.00	15.50	15.50	14.50	15.00	14.00
	13	18.50	10.25	10.25	NS	9.50	NS

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

Mode	IEEE 802.11 (Maximum in dBm) - WF2b Tolerance (+0/-3 dB)						
	Channel	SISO				MIMO	
		b	g	n	ax SU	g/n	ax SU
2.4 GHz WIFI 20 MHz Bandwidth	1	21.00	14.50	14.50	14.50	14.00	14.00
	2	21.00	19.50	19.50	18.00	19.00	17.00
	3	21.00	20.75	20.75	19.50	20.00	19.00
	4	21.00	21.00	21.00	20.50	20.50	19.50
	5	21.00	21.00	21.00	21.00	21.00	21.00
	6	21.00	21.00	21.00	21.00	21.00	21.00
	7	21.00	21.00	21.00	21.00	21.00	21.00
	8	21.00	21.00	21.00	20.50	21.00	20.00
	9	21.00	20.75	20.75	20.50	20.50	20.00
	10	21.00	20.50	20.50	18.50	20.00	18.50
	11	21.00	17.50	17.50	16.50	16.50	16.50
	12	20.00	15.50	15.50	14.50	15.00	14.00
	13	18.50	10.25	10.25	NS	9.50	NS

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

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Mode	IEEE 802.11 (Maximum in dBm) - WF7a Tolerance (+0/-3 dB)							
	Channel	SISO			MIMO CDD		MIMO SDM	
		a	n/ac	ax SU	n/ac	ax SU	n/ac	ax SU
5 GHz WIFI 20 MHz Bandwidth	36	16.50	16.50	16.50	16.50	16.50	16.50	16.50
	40	16.50	16.50	16.50	16.50	16.50	16.50	16.50
	44	16.50	16.50	16.50	16.50	16.50	16.50	16.50
	48	16.50	16.50	16.50	16.50	16.50	16.50	16.50
	52	16.50	16.50	16.50	16.50	16.50	16.50	16.50
	56	16.50	16.50	16.50	16.50	16.50	16.50	16.50
	60	16.50	16.50	16.50	16.50	16.50	16.50	16.50
	64	16.50	16.50	16.50	16.50	16.50	16.50	16.50
	100	15.25	15.25	15.25	15.25	15.25	15.25	15.25
	104	15.25	15.25	15.25	15.25	15.25	15.25	15.25
	108	15.25	15.25	15.25	15.25	15.25	15.25	15.25
	112	15.25	15.25	15.25	15.25	15.25	15.25	15.25
	116	15.25	15.25	15.25	15.25	15.25	15.25	15.25
	120	15.25	15.25	15.25	15.25	15.25	15.25	15.25
	124	15.25	15.25	15.25	15.25	15.25	15.25	15.25
	128	15.25	15.25	15.25	15.25	15.25	15.25	15.25
	132	15.25	15.25	15.25	15.25	15.25	15.25	15.25
	136	15.25	15.25	15.25	15.25	15.25	15.25	15.25
	140	15.25	15.25	15.25	15.25	15.25	15.25	15.25
	144	15.25	15.25	15.25	15.25	15.25	15.25	15.25
	149	15.50	15.50	15.50	15.50	15.50	15.50	15.50
	153	15.50	15.50	15.50	15.50	15.50	15.50	15.50
	157	15.50	15.50	15.50	15.50	15.50	15.50	15.50
	161	15.50	15.50	15.50	15.50	15.50	15.50	15.50
	165	15.50	15.50	15.50	15.50	15.50	15.50	15.50
5 GHz WIFI 40 MHz Bandwidth	38		16.50	14.50	15.00	14.00	15.00	14.00
	46		16.50	16.50	16.50	16.50	16.50	16.50
	54		16.50	16.50	16.50	16.50	16.50	16.50
	62		16.50	16.50	16.50	16.50	16.50	16.50
	102		15.25	15.25	15.25	15.00	15.25	15.00
	110		15.25	15.25	15.25	15.25	15.25	15.25
	118		15.25	15.25	15.25	15.25	15.25	15.25
	126		15.25	15.25	15.25	15.25	15.25	15.25
	134		15.25	15.25	15.25	15.25	15.25	15.25
	142		15.25	15.25	15.25	15.25	15.25	15.25
	151		15.50	15.50	15.50	15.50	15.50	15.50
5 GHz WIFI 80 MHz Bandwidth	159		15.50	15.50	15.50	15.50	15.50	15.50
	42		14.50	14.00	14.00	14.00	14.00	14.00
	58		16.50	16.50	16.00	15.50	16.00	15.50
	106		15.00	15.00	14.50	14.50	14.50	14.50
	122		15.25	15.25	15.25	15.25	15.25	15.25
	138		15.25	15.25	15.25	15.25	15.25	15.25
5 GHz WIFI 160 MHz Bandwidth	155		15.50	15.50	15.50	15.50	15.50	15.50
	50		13.50	13.50	13.25	13.25	13.25	13.25
	114		14.00	13.75	13.75	13.50	13.75	13.50

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

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Mode	IEEE 802.11 (Maximum in dBm) - WF7b Tolerance (+0/-3 dB)							
	Channel	SISO			MIMO CDD		MIMO SDM	
		a	n/ac	ax SU	n/ac	ax SU	n/ac	ax SU
5 GHz WIFI 20 MHz Bandwidth	36	18.50	18.50	18.00	17.00	17.00	17.00	17.00
	40	19.50	19.50	19.50	17.00	17.00	17.00	17.00
	44	19.50	19.50	19.50	17.00	17.00	17.00	17.00
	48	19.50	19.50	19.50	17.00	17.00	17.00	17.00
	52	19.50	19.50	19.50	17.00	17.00	17.00	17.00
	56	19.50	19.50	19.50	17.00	17.00	17.00	17.00
	60	19.50	19.50	19.50	17.00	17.00	17.00	17.00
	64	19.00	19.00	18.50	17.00	17.00	17.00	17.00
	100	19.00	19.00	18.50	17.00	17.00	17.00	17.00
	104	19.00	19.00	19.00	17.00	17.00	17.00	17.00
	108	19.00	19.00	19.00	17.00	17.00	17.00	17.00
	112	19.00	19.00	19.00	17.00	17.00	17.00	17.00
	116	19.00	19.00	19.00	17.00	17.00	17.00	17.00
	120	19.00	19.00	19.00	17.00	17.00	17.00	17.00
	124	19.00	19.00	19.00	17.00	17.00	17.00	17.00
	128	19.00	19.00	19.00	17.00	17.00	17.00	17.00
	132	19.00	19.00	19.00	17.00	17.00	17.00	17.00
	136	19.00	19.00	19.00	17.00	17.00	17.00	17.00
	140	18.00	18.00	17.50	17.00	16.50	17.00	16.50
	144	19.00	19.00	19.00	17.00	17.00	17.00	17.00
	149	18.00	18.00	18.00	18.00	18.00	18.00	18.00
	153	18.00	18.00	18.00	18.00	18.00	18.00	18.00
	157	18.00	18.00	18.00	18.00	18.00	18.00	18.00
	161	18.00	18.00	18.00	18.00	18.00	18.00	18.00
	165	18.00	18.00	18.00	18.00	18.00	18.00	18.00
5 GHz WIFI 40 MHz Bandwidth	38		16.50	14.50	15.00	14.00	15.00	14.00
	46		19.50	19.50	19.50	19.50	19.50	19.50
	54		19.50	19.50	19.50	19.50	19.50	19.50
	62		17.50	17.00	16.50	16.50	16.50	16.50
	102		16.00	16.00	15.50	15.00	15.50	15.00
	110		19.00	19.00	19.00	19.00	19.00	19.00
	118		19.00	19.00	19.00	19.00	19.00	19.00
	126		19.00	19.00	19.00	19.00	19.00	19.00
	134		19.00	19.00	19.00	18.50	19.00	18.50
	142		19.00	19.00	19.00	19.00	19.00	19.00
5 GHz WIFI 80 MHz Bandwidth	151		18.00	18.00	18.00	18.00	18.00	18.00
	159		18.00	18.00	18.00	18.00	18.00	18.00
	42		14.50	14.00	14.00	14.00	14.00	14.00
	58		17.00	16.50	16.00	15.50	16.00	15.50
	106		15.00	15.00	14.50	14.50	14.50	14.50
	122		19.00	19.00	19.00	19.00	19.00	19.00
5 GHz WIFI 160 MHz Bandwidth	138		19.00	19.00	19.00	19.00	19.00	19.00
	155		18.00	18.00	18.00	18.00	18.00	18.00
	50		13.50	13.50	13.25	13.25	13.25	13.25
	114		14.00	13.75	13.75	13.50	13.75	13.50

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

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	Channel	SISO			MIMO CDD		MIMO SDM	
		a	n/ac	ax SU	n/ac	ax SU	n/ac	ax SU
5 GHz WIFI 20 MHz Bandwidth	36	17.50	17.50	17.50	17.00	17.00	17.00	17.00
	40	17.50	17.50	17.50	17.00	17.00	17.00	17.00
	44	17.50	17.50	17.50	17.00	17.00	17.00	17.00
	48	17.50	17.50	17.50	17.00	17.00	17.00	17.00
	52	17.50	17.50	17.50	17.00	17.00	17.00	17.00
	56	17.50	17.50	17.50	17.00	17.00	17.00	17.00
	60	17.50	17.50	17.50	17.00	17.00	17.00	17.00
	64	17.50	17.50	17.50	17.00	17.00	17.00	17.00
	100	15.00	15.00	15.00	15.00	15.00	15.00	15.00
	104	15.00	15.00	15.00	15.00	15.00	15.00	15.00
	108	15.00	15.00	15.00	15.00	15.00	15.00	15.00
	112	15.00	15.00	15.00	15.00	15.00	15.00	15.00
	116	15.00	15.00	15.00	15.00	15.00	15.00	15.00
	120	15.00	15.00	15.00	15.00	15.00	15.00	15.00
	124	15.00	15.00	15.00	15.00	15.00	15.00	15.00
	128	15.00	15.00	15.00	15.00	15.00	15.00	15.00
	132	15.00	15.00	15.00	15.00	15.00	15.00	15.00
	136	15.00	15.00	15.00	15.00	15.00	15.00	15.00
	140	15.00	15.00	15.00	15.00	15.00	15.00	15.00
	144	15.00	15.00	15.00	15.00	15.00	15.00	15.00
	149	14.00	14.00	14.00	14.00	14.00	14.00	14.00
5 GHz WIFI 40 MHz Bandwidth	153	14.00	14.00	14.00	14.00	14.00	14.00	14.00
	157	14.00	14.00	14.00	14.00	14.00	14.00	14.00
	161	14.00	14.00	14.00	14.00	14.00	14.00	14.00
	165	14.00	14.00	14.00	14.00	14.00	14.00	14.00
	38		16.50	14.50	15.00	14.00	15.00	14.00
	46		17.50	17.50	17.50	17.50	17.50	17.50
	54		17.50	17.50	17.50	17.50	17.50	17.50
	62		17.50	17.00	16.50	16.50	16.50	16.50
	102		15.00	15.00	15.00	15.00	15.00	15.00
	110		15.00	15.00	15.00	15.00	15.00	15.00
5 GHz WIFI 80 MHz Bandwidth	118		15.00	15.00	15.00	15.00	15.00	15.00
	126		15.00	15.00	15.00	15.00	15.00	15.00
	134		15.00	15.00	15.00	15.00	15.00	15.00
	142		15.00	15.00	15.00	15.00	15.00	15.00
	151		14.00	14.00	14.00	14.00	14.00	14.00
	159		14.00	14.00	14.00	14.00	14.00	14.00
5 GHz WIFI 160 MHz Bandwidth	42		14.50	14.00	14.00	14.00	14.00	14.00
	58		17.00	16.50	16.00	15.50	16.00	15.50
	106		15.00	15.00	14.50	14.50	14.50	14.50
	122		15.00	15.00	15.00	15.00	15.00	15.00
	138		15.00	15.00	15.00	15.00	15.00	15.00
	155		14.00	14.00	14.00	14.00	14.00	14.00
	50		13.50	13.50	13.25	13.25	13.25	13.25
	114		14.00	13.75	13.75	13.50	13.75	13.50

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

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Mode	Channel	IEEE 802.11 (Maximum in dBm) - WF7a			
		Tolerance (+0/-3 dB)			
		SISO		MIMO	
		a	ax (SU)	ax (SU) CDD	ax (SU) SDM
6 GHz WIFI (20MHz BW) (LP)	2	NS	NS	NS	NS
	1	7.25	7.25	1.25	4.25
	5	7.25	7.25	1.25	4.25
	9-29	7.25	7.25	1.25	4.25
	33-61	8.00	8.00	2.25	5.25
	65-85	7.50	7.50	2.50	5.50
	89	7.50	7.50	2.50	5.50
	93	7.50	7.50	2.50	5.50
	97-113	6.75	6.75	1.75	4.50
	117-181	5.75	5.75	0.75	3.75
	185	5.75	5.75	0.75	3.75
	189-225	7.50	7.50	2.00	5.00
	229	7.50	7.50	2.00	5.00
	233	7.50	7.50	2.00	5.00
6 GHz WIFI (40MHz BW) (LP)	3		10.25	4.25	7.25
	11		10.25	4.25	7.25
	19-27		10.25	4.25	7.25
	35-59		11.00	5.25	8.25
	67-75		10.50	5.50	8.50
	83		10.50	5.50	8.50
	91		10.50	5.50	8.50
	99-107		9.75	4.75	7.50
	115		8.75	3.75	6.75
	123-179		8.75	3.75	6.75
	187		8.75	3.75	6.75
	195-219		10.50	5.00	8.00
	227		10.50	5.00	8.00
6 GHz WIFI (80MHz BW) (LP)	7		13.25	7.25	10.25
	23		13.25	7.25	10.25
	39-55		14.00	8.25	11.25
	71		13.50	8.50	11.50
	87		13.50	8.50	11.50
	103		12.75	7.75	10.50
	119		11.75	6.75	9.75
	135-167		11.75	6.75	9.75
	183		11.75	6.75	9.75
	199		13.25	8.00	11.00
	215		13.25	8.00	11.00
6 GHz WIFI (160MHz BW) (LP)	15		14.25	9.75	12.75
	47		14.25	10.75	13.75
	79		14.50	11.00	14.00
	111		13.50	9.25	12.25
	143		14.25	9.25	12.25
	175		13.25	9.25	12.25
	207		13.25	10.50	13.25

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

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Mode	Channel	IEEE 802.11 (Maximum in dBm) - WF7a			
		Tolerance (+0/-3 dB)			
		SISO		MIMO	
		a	ax (SU)	ax (SU) CDD	ax (SU) SDM
6 GHz WIFI (20MHz BW) (SP)	2	14.25	14.25	14.25	14.25
	1	14.25	14.25	14.25	14.25
	5	14.25	14.25	14.25	14.25
	9-29	14.25	14.25	14.25	14.25
	33-61	14.25	14.25	14.25	14.25
	65-85	14.50	14.50	14.50	14.50
	89	14.50	14.50	14.50	14.50
	93	14.50	14.50	14.50	14.50
	97-113	NS	NS	NS	NS
	117-181	13.50	13.50	13.50	13.50
	185	NS	NS	NS	NS
	189-225	NS	NS	NS	NS
	229	NS	NS	NS	NS
	233	NS	NS	NS	NS
6 GHz WIFI (40MHz BW) (SP)	3		14.25	14.25	14.25
	11		14.25	14.25	14.25
	19-27		14.25	14.25	14.25
	35-59		14.25	14.25	14.25
	67-75		14.50	14.50	14.50
	83		14.50	14.50	14.50
	91		14.50	14.50	14.50
	99-107		NS	NS	NS
	115		NS	NS	NS
	123-179		14.25	14.25	14.25
	187		NS	NS	NS
	195-219		NS	NS	NS
	227		NS	NS	NS
6 GHz WIFI (80MHz BW) (SP)	7		14.25	14.25	14.25
	23		14.50	14.50	14.50
	39-55		14.25	14.25	14.25
	71		14.50	14.50	14.50
	87		14.50	14.50	14.50
	103		NS	NS	NS
	119		NS	NS	NS
	135-167		14.25	14.25	14.25
	183		NS	NS	NS
	199		NS	NS	NS
	215		NS	NS	NS
6 GHz WIFI (160MHz BW) (SP)	15		14.25	14.25	14.25
	47		14.25	14.25	14.25
	79		14.50	14.50	14.50
	111		NS	NS	NS
	143		14.25	14.25	14.25
	175		NS	NS	NS
	207		NS	NS	NS

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

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Mode	Channel	IEEE 802.11 (Maximum in dBm) - WF7b			
		Tolerance (+0/-3 dB)			
		SISO		MIMO	
		a	ax (SU)	ax (SU) CDD	ax (SU) SDM
6 GHz WIFI (20MHz BW) (LP)	2	NS	NS	NS	NS
	1	7.25	7.25	1.25	4.25
	5	7.25	7.25	1.25	4.25
	9-29	7.25	7.25	1.25	4.25
	33-61	8.00	8.00	2.25	5.25
	65-85	7.50	7.50	2.50	5.50
	89	7.50	7.50	2.50	5.50
	93	7.50	7.50	2.50	5.50
	97-113	6.75	6.75	1.75	4.50
	117-181	5.75	5.75	0.75	3.75
	185	5.75	5.75	0.75	3.75
	189-225	7.50	7.50	2.00	5.00
	229	7.50	7.50	2.00	5.00
	233	7.50	7.50	2.00	5.00
6 GHz WIFI (40MHz BW) (LP)	3		10.25	4.25	7.25
	11		10.25	4.25	7.25
	19-27		10.25	4.25	7.25
	35-59		11.00	5.25	8.25
	67-75		10.50	5.50	8.50
	83		10.50	5.50	8.50
	91		10.50	5.50	8.50
	99-107		9.75	4.75	7.50
	115		8.75	3.75	6.75
	123-179		8.75	3.75	6.75
	187		8.75	3.75	6.75
	195-219		10.50	5.00	8.00
	227		10.50	5.00	8.00
6 GHz WIFI (80MHz BW) (LP)	7		13.25	7.25	10.25
	23		13.25	7.25	10.25
	39-55		14.00	8.25	11.25
	71		13.50	8.50	11.50
	87		13.50	8.50	11.50
	103		12.75	7.75	10.50
	119		11.75	6.75	9.75
	135-167		11.75	6.75	9.75
	183		11.75	6.75	9.75
	199		13.50	8.00	11.00
	215		13.50	8.00	11.00
6 GHz WIFI (160MHz BW) (LP)	15		15.75	9.75	12.75
	47		16.50	10.75	13.75
	79		16.00	11.00	14.00
	111		14.25	9.25	12.25
	143		14.25	9.25	12.25
	175		14.25	9.25	12.25
	207		16.00	10.50	13.50

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

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Mode	Channel	IEEE 802.11 (Maximum in dBm) - WF7b			
		Tolerance (+0/-3 dB)			
		SISO		MIMO	
		a	ax (SU)	ax (SU) CDD	ax (SU) SDM
6 GHz WIFI (20MHz BW) (SP)	2	17.75	17.75	17.75	17.75
	1	17.75	17.75	17.75	17.75
	5	17.75	17.75	17.75	17.75
	9-29	17.75	17.75	17.75	17.75
	33-61	17.75	17.75	17.75	17.75
	65-85	17.25	17.25	17.25	17.25
	89	17.25	17.25	17.25	17.25
	93	17.25	17.25	17.25	17.25
	97-113	NS	NS	NS	NS
	117-181	17.50	17.50	17.50	17.50
	185	NS	NS	NS	NS
	189-225	NS	NS	NS	NS
	229	NS	NS	NS	NS
	233	NS	NS	NS	NS
6 GHz WIFI (40MHz BW) (SP)	3		17.75	17.75	17.75
	11		17.75	17.75	17.75
	19-27		17.75	17.75	17.75
	35-59		17.75	17.75	17.75
	67-75		17.25	17.25	17.25
	83		17.25	17.25	17.25
	91		17.25	17.25	17.25
	99-107		NS	NS	NS
	115		NS	NS	NS
	123-179		18.00	18.00	18.00
	187		NS	NS	NS
	195-219		NS	NS	NS
	227		NS	NS	NS
6 GHz WIFI (80MHz BW) (SP)	7		17.75	17.75	17.75
	23		17.25	17.25	17.25
	39-55		17.75	17.75	17.75
	71		17.25	17.25	17.25
	87		17.25	17.25	17.25
	103		NS	NS	NS
	119		NS	NS	NS
	135-167		18.00	18.00	18.00
	183		NS	NS	NS
	199		NS	NS	NS
	215		NS	NS	NS
6 GHz WIFI (160MHz BW) (SP)	15		17.75	17.75	17.75
	47		17.75	17.75	17.75
	79		17.25	17.25	17.25
	111		NS	NS	NS
	143		18.00	18.00	18.00
	175		NS	NS	NS
	207		NS	NS	NS

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

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Mode	Channel	IEEE 802.11 (Maximum in dBm) - WF2a			
		Tolerance (+0/-3 dB)			
		SISO		MIMO	
		a	ax (SU)	ax (SU) CDD	ax (SU) SDM
6 GHz WIFI (20MHz BW) (LP)	2	NS	NS	NS	NS
	1	7.25	7.25	1.25	4.25
	5	7.25	7.25	1.25	4.25
	9-29	7.25	7.25	1.25	4.25
	33-61	8.00	8.00	2.25	5.25
	65-85	7.50	7.50	2.50	5.50
	89	7.50	7.50	2.50	5.50
	93	7.50	7.50	2.50	5.50
	97-113	6.75	6.75	1.75	4.50
	117-181	5.75	5.75	0.75	3.75
	185	5.75	5.75	0.75	3.75
	189-225	7.50	7.50	2.00	5.00
	229	7.50	7.50	2.00	5.00
	233	7.50	7.50	2.00	5.00
6 GHz WIFI (40MHz BW) (LP)	3		10.25	4.25	7.25
	11		10.25	4.25	7.25
	19-27		10.25	4.25	7.25
	35-59		11.00	5.25	8.25
	67-75		10.50	5.50	8.50
	83		10.50	5.50	8.50
	91		10.50	5.50	8.50
	99-107		9.75	4.75	7.50
	115		8.75	3.75	6.75
	123-179		8.75	3.75	6.75
	187		8.75	3.75	6.75
	195-219		10.50	5.00	8.00
	227		10.50	5.00	8.00
6 GHz WIFI (80MHz BW) (LP)	7		13.25	7.25	10.25
	23		13.25	7.25	10.25
	39-55		14.00	8.25	11.25
	71		13.50	8.50	11.50
	87		13.50	8.50	11.50
	103		12.75	7.75	10.50
	119		11.75	6.75	9.75
	135-167		11.75	6.75	9.75
	183		11.75	6.75	9.75
	199		12.50	8.00	11.00
	215		12.50	8.00	11.00
6 GHz WIFI (160MHz BW) (LP)	15		14.00	9.75	12.75
	47		14.00	10.75	13.75
	79		14.00	11.00	14.00
	111		13.25	9.25	12.25
	143		13.25	9.25	12.25
	175		12.50	9.25	12.25
	207		12.50	10.50	12.50

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

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Mode	Channel	IEEE 802.11 (Maximum in dBm) - WF2a			
		Tolerance (+0/-3 dB)			
		SISO		MIMO	
		a	ax (SU)	ax (SU) CDD	ax (SU) SDM
6 GHz WIFI (20MHz BW) (SP)	2	14.00	14.00	14.00	14.00
	1	14.00	14.00	14.00	14.00
	5	14.00	14.00	14.00	14.00
	9-29	14.00	14.00	14.00	14.00
	33-61	14.00	14.00	14.00	14.00
	65-85	14.00	14.00	14.00	14.00
	89	14.00	14.00	14.00	14.00
	93	14.00	14.00	14.00	14.00
	97-113	NS	NS	NS	NS
	117-181	13.25	13.25	13.25	13.25
	185	NS	NS	NS	NS
	189-225	NS	NS	NS	NS
	229	NS	NS	NS	NS
	233	NS	NS	NS	NS
6 GHz WIFI (40MHz BW) (SP)	3		14.00	14.00	14.00
	11		14.00	14.00	14.00
	19-27		14.00	14.00	14.00
	35-59		14.00	14.00	14.00
	67-75		14.00	14.00	14.00
	83		14.00	14.00	14.00
	91		14.00	14.00	14.00
	99-107		NS	NS	NS
	115		NS	NS	NS
	123-179		13.25	13.25	13.25
	187		NS	NS	NS
	195-219		NS	NS	NS
	227		NS	NS	NS
6 GHz WIFI (80MHz BW) (SP)	7		14.00	14.00	14.00
	23		14.00	14.00	14.00
	39-55		14.00	14.00	14.00
	71		14.00	14.00	14.00
	87		14.00	14.00	14.00
	103		NS	NS	NS
	119		NS	NS	NS
	135-167		13.25	13.25	13.25
	183		NS	NS	NS
	199		NS	NS	NS
	215		NS	NS	NS
6 GHz WIFI (160MHz BW) (SP)	15		14.00	14.00	14.00
	47		14.00	14.00	14.00
	79		14.00	14.00	14.00
	111		NS	NS	NS
	143		13.25	13.25	13.25
	175		NS	NS	NS
	207		NS	NS	NS

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

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1.3.2

Bluetooth Maximum Output Power

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) WF7b	Modulated Average (iPA) Single Tx Chain (dBm) WF7b
Bluetooth BDR	Maximum	20.00	11.00
	Nominal	18.50	9.50
Bluetooth EDR	Maximum	14.00	7.50
	Nominal	12.50	6.00
Bluetooth LE	Maximum	20.00	11.00
	Nominal	18.50	9.50
Bluetooth HDR4	Maximum	14.00	5.00
	Nominal	12.50	3.50
Bluetooth HDR8	Maximum	14.00	5.00
	Nominal	12.50	3.50
Mode / Band		Modulated Average (ePA) TXBF (dBm) WF7b	Modulated Average (iPA) TXBF (dBm) WF7b
Bluetooth BDR	Maximum	17.00	11.00
	Nominal	15.50	9.50
Bluetooth EDR	Maximum	13.50	7.50
	Nominal	12.00	6.00
Bluetooth LE	Maximum	20.00	11.00
	Nominal	18.50	9.50
Bluetooth HDR4	Maximum	14.00	5.00
	Nominal	12.50	3.50
Bluetooth HDR8	Maximum	14.00	5.00
	Nominal	12.50	3.50

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

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) WF2b	Modulated Average (iPA) Single Tx Chain (dBm) WF2b
Bluetooth BDR	Maximum	20.00	11.00
	Nominal	18.50	9.50
Bluetooth EDR	Maximum	14.00	7.50
	Nominal	12.50	6.00
Bluetooth LE	Maximum	20.00	11.00
	Nominal	18.50	9.50
Bluetooth HDR4	Maximum	14.00	5.00
	Nominal	12.50	3.50
Bluetooth HDR8	Maximum	14.00	5.00
	Nominal	12.50	3.50
Mode / Band		Modulated Average (ePA) TXBF (dBm) WF2b	Modulated Average (iPA) TXBF (dBm) WF2b
Bluetooth BDR	Maximum	17.00	11.00
	Nominal	15.50	9.50
Bluetooth EDR	Maximum	13.50	7.50
	Nominal	12.00	6.00
Bluetooth LE	Maximum	20.00	11.00
	Nominal	18.50	9.50
Bluetooth HDR4	Maximum	14.00	5.00
	Nominal	12.50	3.50
Bluetooth HDR8	Maximum	14.00	5.00
	Nominal	12.50	3.50

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

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1.3.3

802.15.4 Maximum Output Power

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

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

1.3.4

NB UNII Maximum Output Power

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

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

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

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

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

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

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

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

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

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

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1.3.5 Bluetooth Reduced Output Power

Table below is applicable in the following conduction:

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

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

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

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Table below is applicable in the following conductions:

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

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

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

1.3.6

802.15.4 Reduced Output Power

Table below is applicable in the following conductions:

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

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

Table below is applicable in the following conductions:

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

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) WF2b	Modulated Average (iPA) Single Tx Chain (dBm) WF2b
802.15.4	Maximum	16.00	11.00
	Nominal	14.50	9.50

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1.3.7 NB UNII Reduced Output Power

Table below is applicable in the following conductions:

- Simultaneous conditions with 2.4 GHz WLAN and wPT active

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

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

Table below is applicable in the following conductions:

- Simultaneous conditions with 2.4 GHz WLAN and wPT active

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) WF7a	Modulated Average (iPA) Single Tx Chain (dBm) WF7a
NB UNII-3 BDR	Maximum	9.00	6.50
	Nominal	7.50	5.00
NB UNII-3 HDR4	Maximum	9.00	1.50
	Nominal	7.50	0.00
NB UNII-3 HDR8	Maximum	9.00	1.50
	Nominal	7.50	0.00
Mode / Band		Modulated Average (ePA) TXBF (dBm) WF7a	Modulated Average (iPA) TXBF (dBm) WF7a
NB UNII-3 BDR	Maximum	9.00	6.50
	Nominal	7.50	5.00
NB UNII-3 HDR4	Maximum	9.00	1.50
	Nominal	7.50	0.00
NB UNII-3 HDR8	Maximum	9.00	1.50
	Nominal	7.50	0.00

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

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Table below is applicable in the following conduction:

- Simultaneous conditions with 2.4 GHz WLAN and wPT active

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) WF2a	Modulated Average (iPA) Single Tx Chain (dBm) WF2a
NB UNII-3 BDR	Maximum	9.00	5.50
	Nominal	7.50	4.00
NB UNII-3 HDR4	Maximum	9.00	0.50
	Nominal	7.50	-1.00
NB UNII-3 HDR8	Maximum	9.00	0.50
	Nominal	7.50	-1.00
Mode / Band		Modulated Average (ePA) TXBF (dBm) WF2a	Modulated Average (iPA) TXBF (dBm) WF2a
NB UNII-3 BDR	Maximum	9.00	5.50
	Nominal	7.50	4.00
NB UNII-3 HDR4	Maximum	9.00	0.50
	Nominal	7.50	-1.00
NB UNII-3 HDR8	Maximum	9.00	0.50
	Nominal	7.50	-1.00

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

1.4 DUT Antenna Locations

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

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

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1.5 Simultaneous Transmission Capabilities

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

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

**Table 1-1
Simultaneous Transmission Scenarios**

No.	Capable Transmit Configuration	Body
1	2.4 GHz WI-FI MIMO + WPT	Yes
2	5/6 GHz WI-FI MIMO +WPT	Yes
3	2.4 GHz Bluetooth (TxBF) + WPT	Yes
4	NB UNII (TxBF) + WPT	Yes
5	2.4 GHz Bluetooth Antenna WF2b + 2.4 GHz WI-FI Antenna WF7b + WPT	Yes
6	802.15.4 Antenna WF2b + 2.4 GHz WI-FI Antenna WF7b + WPT	Yes
7	2.4 GHz Bluetooth + 5/6 GHz WI-FI + WPT	Yes
8	802.15.4 + 5/6 GHz WI-FI + WPT	Yes
9	2.4 GHz Bluetooth + 5/6 GHz WI-FI MIMO + WPT	Yes
10	802.15.4 + 5/6 GHz WI-FI MIMO + WPT	Yes
11	2.4 GHz Bluetooth (TxBF) + 5/6 GHz WI-FI + WPT	Yes
12	2.4 GHz Bluetooth (TxBF) + 5/6 GHz WI-FI MIMO + WPT	Yes
13	NB UNII + 2.4 GHz WI-FI + WPT	Yes
14	NB UNII + 2.4 GHz WI-FI MIMO + WPT	Yes
15	NB UNII (TXBF)+ 2.4 GHz WI-FI + WPT	Yes
16	NB UNII (TXBF)+ 2.4 GHz WI-FI MIMO + WPT	Yes

- 2.4GHz WIFI and 2.4 GHz Bluetooth/802.15.4 can transmit simultaneously on separate antennas. Specific 2.4 GHz WIFI Antenna that can only transmit simultaneously with 2.4 GHz Bluetooth/802.15.4 is listed in the above table. In this scenario, Wi-Fi max power will not exceed minimum of (13.5 dBm, SAR max cap, Reg max cap) power. Additionally, in disconnected mode, BT will be using iPA only.
- 5 GHz WLAN and NB UNII share the same antenna path and cannot transmit simultaneously on any antenna (WF7a, WF7b and WF2b). Specific 5/6 GHz WIFI MIMO and NB UNII TxBF antennas can only transmit simultaneously and is listed in the Simultaneously Backoff Scenarios document.
- 2.4 GHz WLAN and 5 GHz WLAN cannot transmit simultaneously.
- This device supports 2x2 MIMO Tx for WLAN 802.11a/g/n/ac/ax. 802.11a/g/n/ac/ax supports CDD and 802.11n/ac/ax additionally supports SDM. Each WLAN antenna can transmit independently or together when operating with MIMO.
- This device supports VoWIFI.
- No other combinations of antennas and modes are supported.

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1.6 Miscellaneous SAR Test Considerations

(A) WIFI/BT/802.15.4/NB UNII

Based on the maximum allowed power for the respective antennas, U-NII-2A was evaluated for Antenna WF7a, Antenna WF7b and Antenna WF2a. Additional testing for U-NII-1 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 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 configurations.

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

This device supports IEEE 802.11ac with the following features:

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

This device supports IEEE 802.11ax with the following features:

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

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

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

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1.7 Guidance Applied

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

1.8 Device Serial Numbers

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

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2 INTRODUCTION

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

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

2.1 SAR Definition

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

Equation 2-1
SAR Mathematical Equation

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

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

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

where:

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

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

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3 DOSIMETRIC ASSESSMENT

3.1 Measurement Procedure

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

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

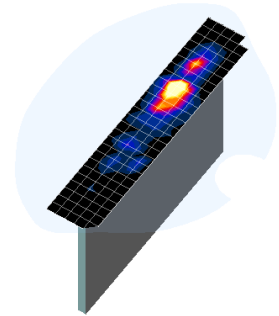


Figure 3-1
Sample SAR Area
Scan

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

Frequency	Maximum Area Scan Resolution (mm) ($\Delta x_{\text{area}}, \Delta y_{\text{area}}$)	Maximum Zoom Scan Resolution (mm) ($\Delta x_{\text{zoom}}, \Delta y_{\text{zoom}}$)	Maximum Zoom Scan Spatial Resolution (mm)			Minimum Zoom Scan Volume (mm) (x,y,z)
			Uniform Grid	Graded Grid		
				$\Delta z_{\text{zoom}}(n)$	$\Delta z_{\text{zoom}}(1)^*$	
≤ 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)
Peak Spatial Average SAR Head	1.6	8.0
Whole Body SAR	0.08	0.4
Peak Spatial Average SAR Hands, Feet, Ankle, Wrists, etc.	4.0	20

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

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5.4 RF Exposure Limits for Frequencies above 6 GHz

Per §1.1310 (d)(3), the MPE limits are applied for frequencies above 6 GHz. Power Density is expressed in units of W/m² or mW/cm².

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

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

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

Note: 1.0 mW/cm² is 10 W/m²

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6 FCC MEASUREMENT PROCEDURES

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

6.1 Measured and Reported SAR

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

6.2 SAR Testing with 802.11 Transmitters

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

6.2.1 General Device Setup

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

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

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

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

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

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

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6.2.4 2.4 GHz SAR Test Requirements

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

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

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

6.2.5 OFDM Transmission Mode and SAR Test Channel Selection

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

6.2.6 Initial Test Configuration Procedure

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

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

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6.2.7 Subsequent Test Configuration Procedures

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

6.2.8 MIMO SAR considerations

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

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7 RF CONDUCTED POWERS

7.1 WLAN Maximum Time-Averaged Conducted Powers

Table 7-1
2.4 GHz WLAN Maximum Average RF Power – Ant WF7b, Variant 1

2.4GHz WIFI (20MHz 802.11b SISO Ant WF7b)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	20.29
2437	6		20.35
2462	11		20.30
2.4GHz WIFI (20MHz 802.11g SISO Ant WF7b)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	13.41
2437	6		20.28
2462	11		15.67
2.4GHz WIFI (20MHz 802.11n SISO Ant WF7b)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	13.42
2437	6		20.22
2462	11		15.74
2.4GHz WIFI (20MHz 802.11ax SISO Ant WF7b)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	13.54
2437	6		20.10
2462	11		14.72

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

2.4GHz WIFI (20MHz 802.11b SISO Ant WF7b)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	20.67
2437	6		20.69
2462	11		20.72
2.4GHz WIFI (20MHz 802.11g SISO Ant WF7b)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	13.38
2437	6		20.40
2462	11		15.62
2.4GHz WIFI (20MHz 802.11n SISO Ant WF7b)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	13.41
2437	6		20.24
2462	11		15.70
2.4GHz WIFI (20MHz 802.11ax SISO Ant WF7b)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	13.39
2437	6		20.16
2462	11		14.68

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

2.4GHz WIFI (20MHz 802.11b SISO Ant WF2b)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	20.23
2437	6		20.32
2462	11		20.40
2.4GHz WIFI (20MHz 802.11g SISO Ant WF2b)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	13.40
2437	6		20.14
2462	11		15.89
2.4GHz WIFI (20MHz 802.11n SISO Ant WF2b)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	13.43
2437	6		20.08
2462	11		16.01
2.4GHz WIFI (20MHz 802.11ax SISO Ant WF2b)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	13.58
2437	6		19.80
2462	11		14.52

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

2.4GHz WIFI (20MHz 802.11b SISO Ant WF2b)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	20.43
2437	6		20.35
2462	11		20.44
2.4GHz WIFI (20MHz 802.11g SISO Ant WF2b)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	13.50
2437	6		20.27
2462	11		16.04
2.4GHz WIFI (20MHz 802.11n SISO Ant WF2b)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	13.50
2437	6		20.13
2462	11		16.11
2.4GHz WIFI (20MHz 802.11ax SISO Ant WF2b)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	13.38
2437	6		19.92
2462	11		14.64

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

5GHz WIFI (80MHz 802.11ac SISO ANT WF7a)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5210	42	13.12
UNII-2A	5290	58	16.00
UNII-2C	5530	106	14.62
	5610	122	14.87
	5690	138	14.10
UNII-3	5775	155	13.51
5GHz WIFI (80MHz 802.11ax SISO ANT WF7a)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5210	42	13.45
UNII-2A	5290	58	16.14
UNII-2C	5530	106	14.63
	5610	122	14.89
	5690	138	14.36
UNII-3	5775	155	13.95

Table 7-6
5 GHz WLAN Maximum Average RF Power – Ant WF7a, Variant 2

5GHz WIFI (80MHz 802.11ac SISO ANT WF7a)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5210	42	13.45
UNII-2A	5290	58	16.33
UNII-2C	5530	106	14.81
	5610	122	14.68
	5690	138	14.61
UNII-3	5775	155	13.72
5GHz WIFI (80MHz 802.11ax SISO ANT WF7a)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5210	42	13.53
UNII-2A	5290	58	16.19
UNII-2C	5530	106	14.82
	5610	122	14.71
	5690	138	14.69
UNII-3	5775	155	13.80

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

5GHz WIFI (40MHz 802.11n SISO ANT WF7b)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	14.55
	5230	46	18.03
UNII-2A	5270	54	18.20
	5310	62	16.50
5GHz WIFI (40MHz 802.11ac SISO ANT WF7b)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	15.22
	5230	46	18.40
UNII-2A	5270	54	18.54
	5310	62	16.47
5GHz WIFI (40MHz 802.11ax SISO ANT WF7b)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	13.70
	5230	46	18.69
UNII-2A	5270	54	18.59
	5310	62	15.83
5GHz WIFI (80MHz 802.11ac SISO ANT WF7b)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-2C	5530	106	13.19
	5610	122	18.49
	5690	138	18.46
UNII-3	5775	155	16.56
5GHz WIFI (80MHz 802.11ax SISO ANT WF7b)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-2C	5530	106	14.30
	5610	122	18.21
	5690	138	17.89
UNII-3	5775	155	16.95

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Table 7-8
5 GHz WLAN Maximum Average RF Power – Ant WF7b, Variant 2

5GHz WIFI (40MHz 802.11n SISO ANT WF7b)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	14.45
	5230	46	18.18
UNII-2A	5270	54	18.45
	5310	62	16.73
5GHz WIFI (40MHz 802.11ac SISO ANT WF7b)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	15.42
	5230	46	18.10
UNII-2A	5270	54	18.32
	5310	62	16.43
5GHz WIFI (40MHz 802.11ax SISO ANT WF7b)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	12.90
	5230	46	17.73
UNII-2A	5270	54	18.03
	5310	62	15.91
5GHz WIFI (80MHz 802.11ac SISO ANT WF7b)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-2C	5530	106	13.27
	5610	122	18.76
	5690	138	18.65
UNII-3	5775	155	16.75
5GHz WIFI (80MHz 802.11ax SISO ANT WF7b)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-2C	5530	106	13.84
	5610	122	18.05
	5690	138	17.78
UNII-3	5775	155	17.25

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

5GHz WIFI (40MHz 802.11n SISO ANT WF2a)			
Band	Freq [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	14.72
	5230	46	16.39
UNII-2A	5270	54	16.52
	5310	62	16.44
5GHz WIFI (40MHz 802.11ac ANT WF2a)			
Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]
UNII-1	5190	38	15.45
	5230	46	17.12
UNII-2A	5270	54	16.70
	5310	62	16.68
5GHz WIFI (40MHz 802.11ax ANT WF2a)			
Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]
			ANT1
UNII-1	5190	38	13.45
	5230	46	16.56
UNII-2A	5270	54	16.26
	5310	62	16.00
5GHz WIFI (80MHz 802.11ac SISO ANT WF2a)			
Band	Freq [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-2C	5530	106	14.35
	5610	122	14.58
	5690	138	14.61
UNII-3	5775	155	13.99
5GHz WIFI (80MHz 802.11ax ANT WF2a)			
Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]
UNII-2C	5530	106	13.88
	5610	122	13.77
	5690	138	13.40
UNII-3	5775	155	13.42

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

5GHz WIFI (40MHz 802.11n SISO ANT WF2a)			
Band	Freq [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	14.68
	5230	46	16.37
UNII-2A	5270	54	16.53
	5310	62	16.42
5GHz WIFI (40MHz 802.11ac ANT WF2a)			
Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]
UNII-1	5190	38	15.45
	5230	46	16.40
UNII-2A	5270	54	16.16
	5310	62	16.23
5GHz WIFI (40MHz 802.11ax ANT WF2a)			
Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]
UNII-1	5190	38	13.36
	5230	46	16.10
UNII-2A	5270	54	16.37
	5310	62	15.57
5GHz WIFI (80MHz 802.11ac SISO ANT WF2a)			
Band	Freq [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-2C	5530	106	14.72
	5610	122	14.83
	5690	138	14.60
UNII-3	5775	155	13.70
5GHz WIFI (80MHz 802.11ax AMT WF2a)			
Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]
UNII-2C	5530	106	13.51
	5610	122	13.59
	5690	138	13.86
UNII-3	5775	155	12.98

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Table 7-11
6 GHz WLAN Maximum Average RF Power – Ant WF7a, Variant 1

6GHz WIFI (160MHz 802.11ax SISO ANT WF7a)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-5	6025	15	12.27
	6345	79	12.60
UNII-6	6505	111	11.51
UNII-7	6665	143	12.27
UNII-8	6985	207	11.59

Table 7-12
6 GHz WLAN Maximum Average RF Power – Ant WF7a, Variant 2

6GHz WIFI (160MHz 802.11ax SISO ANT WF7a)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-5	6025	15	12.30
	6345	79	12.61
UNII-6	6505	111	11.70
UNII-7	6665	143	12.53
UNII-8	6985	207	12.05

Table 7-13
6 GHz WLAN Maximum Average RF Power – Ant WF7b, Variant 1

6GHz WIFI (160MHz 802.11ax SISO ANT WF7b)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-5	6025	15	16.07
	6345	79	16.10
UNII-6	6505	111	13.62
UNII-7	6665	143	16.15
UNII-8	6985	207	15.02

Table 7-14
6 GHz WLAN Maximum Average RF Power – Ant WF7b, Variant 2

6GHz WIFI (160MHz 802.11ax SISO ANT WF7b)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-5	6025	15	16.25
	6345	79	16.55
UNII-6	6505	111	13.65
UNII-7	6665	143	16.31
UNII-8	6985	207	15.01

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

6GHz WIFI (160MHz 802.11ax SISO ANT WF2a)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-5	6025	15	13.17
	6345	79	12.99
UNII-6	6505	111	12.45
UNII-7	6665	143	11.92
UNII-8	6985	207	11.60

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

6GHz WIFI (160MHz 802.11ax SISO ANT WF2a)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-5	6025	15	13.29
	6345	79	13.55
UNII-6	6505	111	12.93
UNII-7	6665	143	12.98
UNII-8	6985	207	12.35

7.2 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.

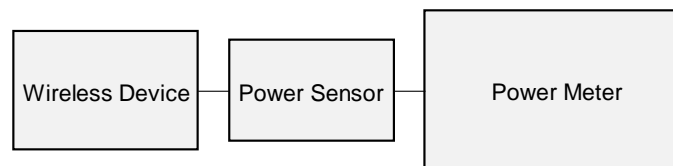


Figure 7-1
Power Measurement Setup

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7.3 Bluetooth/802.15.4/NB UNII Maximum Conducted Powers

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

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	18.99	93.325
2441	GFSK	1.0	39	18.94	93.972
2480	GFSK	1.0	78	18.83	94.624

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

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	18.97	93.756
2441	GFSK	1.0	39	18.80	93.325
2480	GFSK	1.0	78	19.00	98.175

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

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	19.00	93.325
2441	GFSK	1.0	39	19.16	93.972
2480	GFSK	1.0	78	19.05	94.624

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

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	19.19	93.756
2441	GFSK	1.0	39	19.21	93.325
2480	GFSK	1.0	78	19.12	98.175

Table 7-21
802.15.4 Maximum Average RF Power – Ant WF7b, Variant 1

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2405	O-QPSK	0.25	11	19.25	84.140
2440	O-QPSK	0.25	18	19.44	87.902
2475	O-QPSK	0.25	25	19.38	86.696

Table 7-22
802.15.4 Maximum Average RF Power – Ant WF7b, Variant 2

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2405	O-QPSK	0.25	11	19.42	87.539
2440	O-QPSK	0.25	18	19.38	86.696
2475	O-QPSK	0.25	25	19.31	85.310

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Table 7-23
802.15.4 Maximum Average RF Power – Ant WF2b, Variant 1

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2405	O-QPSK	0.25	11	19.32	85.507
2440	O-QPSK	0.25	18	19.42	87.498
2475	O-QPSK	0.25	25	19.12	81.658

Table 7-24
802.15.4 Maximum Average RF Power – Ant WF2b, Variant 2

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2405	O-QPSK	0.25	11	19.28	84.723
2440	O-QPSK	0.25	18	19.55	90.157
2475	O-QPSK	0.25	25	19.58	90.782

Table 7-25
NB-UNII Maximum Average RF Power – Ant WF7a, Variant 1

Type	Band	Frequency	Channel	Average
HDR-4	U-NII 1	5162	Low	10.61
		5204	Mid	10.80
		5245	High	10.79
BDR	U-NII 3	5733	Low	12.53
		5789	Mid	12.54
		5844	High	12.58

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Table 7-26
NB-UNII Maximum Average RF Power – Ant WF7a, Variant 2

Type	Band	Frequency	Channel	Average
HDR-4	U-NII 1	5162	Low	10.77
		5204	Mid	10.81
		5245	High	10.80
BDR	U-NII 3	5733	Low	12.61
		5789	Mid	12.94
		5844	High	12.71

Table 7-27
NB-UNII Maximum Average RF Power – Ant WF7b, Variant 1

Type	Band	Frequency	Channel	Average
HDR-4	U-NII 1	5162	Low	11.20
		5204	Mid	11.36
		5245	High	11.37
BDR	U-NII 3	5733	Low	12.11
		5789	Mid	12.28
		5844	High	11.93

Table 7-28
NB-UNII Maximum Average RF Power – Ant WF7b, Variant 2

Type	Band	Frequency	Channel	Average
HDR-4	U-NII 1	5162	Low	11.03
		5204	Mid	11.25
		5245	High	10.85
BDR	U-NII 3	5733	Low	12.34
		5789	Mid	12.48
		5844	High	12.08

Table 7-29
NB-UNII Maximum Average RF Power – Ant WF2a, Variant 1

Type	Band	Frequency	Channel	Average
HDR-8	U-NII 1	5162	Low	12.59
		5204	Mid	12.55
		5245	High	12.57
BDR	U-NII 3	5733	Low	13.78
		5789	Mid	13.80
		5844	High	13.72

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Table 7-30
NB-UNII Maximum Average RF Power – Ant WF2a, Variant 2

Type	Band	Frequency	Channel	Average
HDR-8	U-NII 1	5162	Low	12.63
		5204	Mid	12.61
		5245	High	12.62
BDR	U-NII 3	5733	Low	13.84
		5789	Mid	13.91
		5844	High	13.77

7.4 Bluetooth/802.15.4/NB UNII Reduced Conducted Powers

Table 7-31
Bluetooth Reduced Average RF Power – Ant WF7b, Variant 1

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	12.57	93.325
2441	GFSK	1.0	39	12.49	93.972
2480	GFSK	1.0	78	12.03	94.624

Table 7-32
Bluetooth Reduced Average RF Power – Ant WF7b, Variant 2

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	12.71	93.756
2441	GFSK	1.0	39	12.45	93.325
2480	GFSK	1.0	78	12.32	98.175

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Table 7-33
Bluetooth Reduced Average RF Power – Ant WF2b, Variant 1

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	12.44	93.325
2441	GFSK	1.0	39	12.66	93.972
2480	GFSK	1.0	78	12.52	94.624

Table 7-34
Bluetooth Reduced Average RF Power – Ant WF2b, Variant 2

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	12.38	93.756
2441	GFSK	1.0	39	12.36	93.325
2480	GFSK	1.0	78	12.30	98.175

Table 7-35
802.15.4 Reduced Average RF Power – Ant WF7b, Variant 1

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2405	O-QPSK	0.25	11	14.58	28.708
2440	O-QPSK	0.25	18	14.55	28.510
2475	O-QPSK	0.25	25	14.26	26.669

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Table 7-36
802.15.4 Reduced Average RF Power – Ant WF7b, Variant 2

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2405	O-QPSK	0.25	11	14.37	27.353
2440	O-QPSK	0.25	18	14.28	26.792
2475	O-QPSK	0.25	25	14.33	27.102

Table 7-37
802.15.4 Reduced Average RF Power – Ant WF2b, Variant 1

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2405	O-QPSK	0.25	11	15.09	32.285
2440	O-QPSK	0.25	18	15.12	32.509
2475	O-QPSK	0.25	25	14.75	29.854

Table 7-38
802.15.4 Reduced Average RF Power – Ant WF2b, Variant 2

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2405	O-QPSK	0.25	11	14.76	29.923
2440	O-QPSK	0.25	18	14.99	31.550
2475	O-QPSK	0.25	25	14.85	30.549

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Table 7-39
NB-UNII Reduced Average RF Power – Ant WF7a, Variant 1

Type	Band	Frequency	Channel	Average
BDR	U-NII 1	5162	Low	9.10
		5204	Mid	9.07
		5245	High	9.01
BDR	U-NII 3	5733	Low	7.25
		5789	Mid	7.18
		5844	High	7.10

Table 7-40
NB-UNII Reduced Average RF Power – Ant WF7a, Variant 2

Type	Band	Frequency	Channel	Average
BDR	U-NII 1	5162	Low	9.26
		5204	Mid	9.15
		5245	High	9.07
BDR	U-NII 3	5733	Low	7.39
		5789	Mid	7.33
		5844	High	7.29

Table 7-41
NB-UNII Reduced Average RF Power – Ant WF2a, Variant 1

Type	Band	Frequency	Channel	Average
BDR	U-NII 3	5733	Low	8.96
		5789	Mid	8.70
		5844	High	8.73

Table 7-42
NB-UNII Reduced Average RF Power – Ant WF2a, Variant 2

Type	Band	Frequency	Channel	Average
BDR	U-NII 3	5733	Low	8.96
		5789	Mid	8.89
		5844	High	8.99

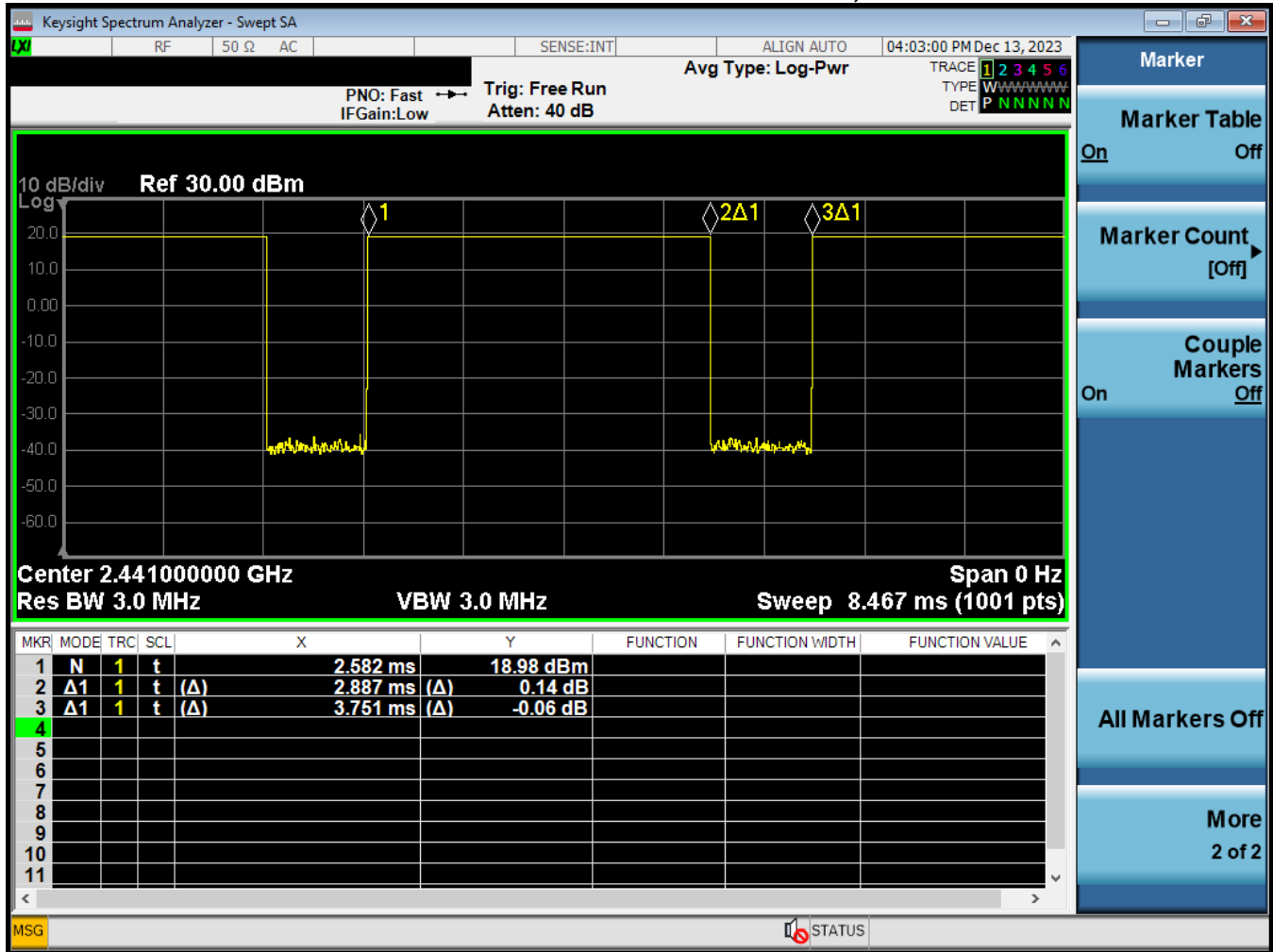
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7.5 Bluetooth/802.15.4 Duty Cycle Plots

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



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

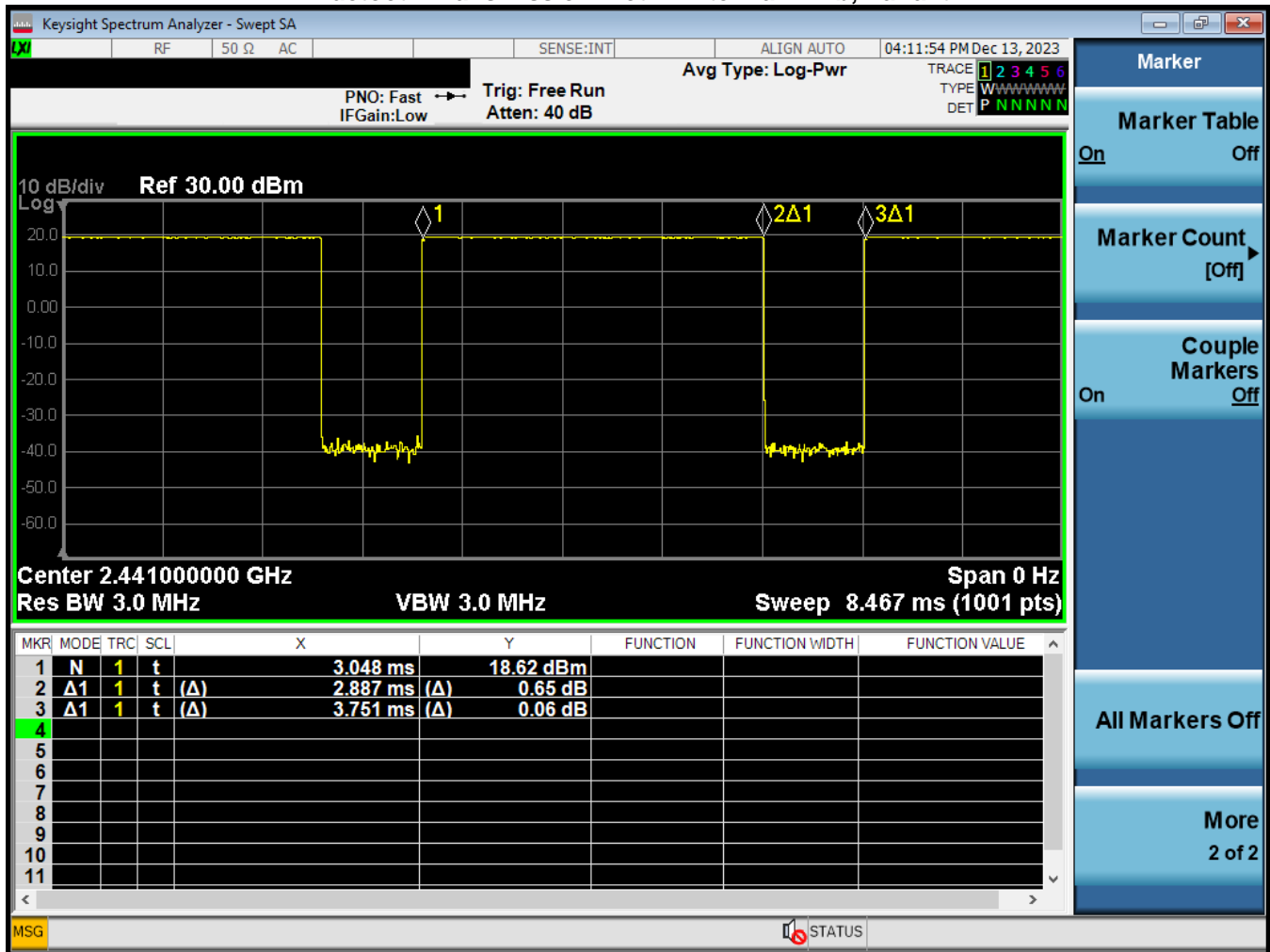
$$\text{Duty Cycle} = \frac{\text{Pulse Width}}{\text{Period}} * 100\% = \frac{2.887\text{ms}}{3.751\text{ms}} * 100\% = 77.0\%$$

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Figure 7-3
Bluetooth Transmission Plot – Antenna WF2b, Variant 1



Equation 7-2
Bluetooth Duty Cycle Calculation – Antenna WF2b, Variant 1

$$Duty\ Cycle = \frac{Pulse\ Width}{Period} * 100\% = \frac{2.887\ ms}{3.751\ ms} * 100\% = 77.0\%$$

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Keysight Spectrum Analyzer - Swept SA

RF 50 Ω AC SENSE:INT ALIGN AUTO 04:00:25 PM Dec 13, 2023

Avg Type: Log-Pwr

TRIGGER: PNO: Fast IF Gain: Low Trig: Free Run Atten: 40 dB

TRACE 1 2 3 4 5 6 TYPE W W W W W W W W DET P N N N N N N

10 dB/div Ref 30.00 dBm

Log

Center 2.441000000 GHz Span 0 Hz

Res BW 3.0 MHz VBW 3.0 MHz Sweep 8.467 ms (1001 pts)

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	t	2.599 ms	18.76 dBm			
2	Δ 1	1	t	2.887 ms (Δ)	0.52 dB			
3	Δ 1	1	t	3.751 ms (Δ)	-0.03 dB			
4								
5								
6								
7								
8								
9								
10								
11								

Marker

Marker Table

Marker Count

Couple Markers

All Markers Off

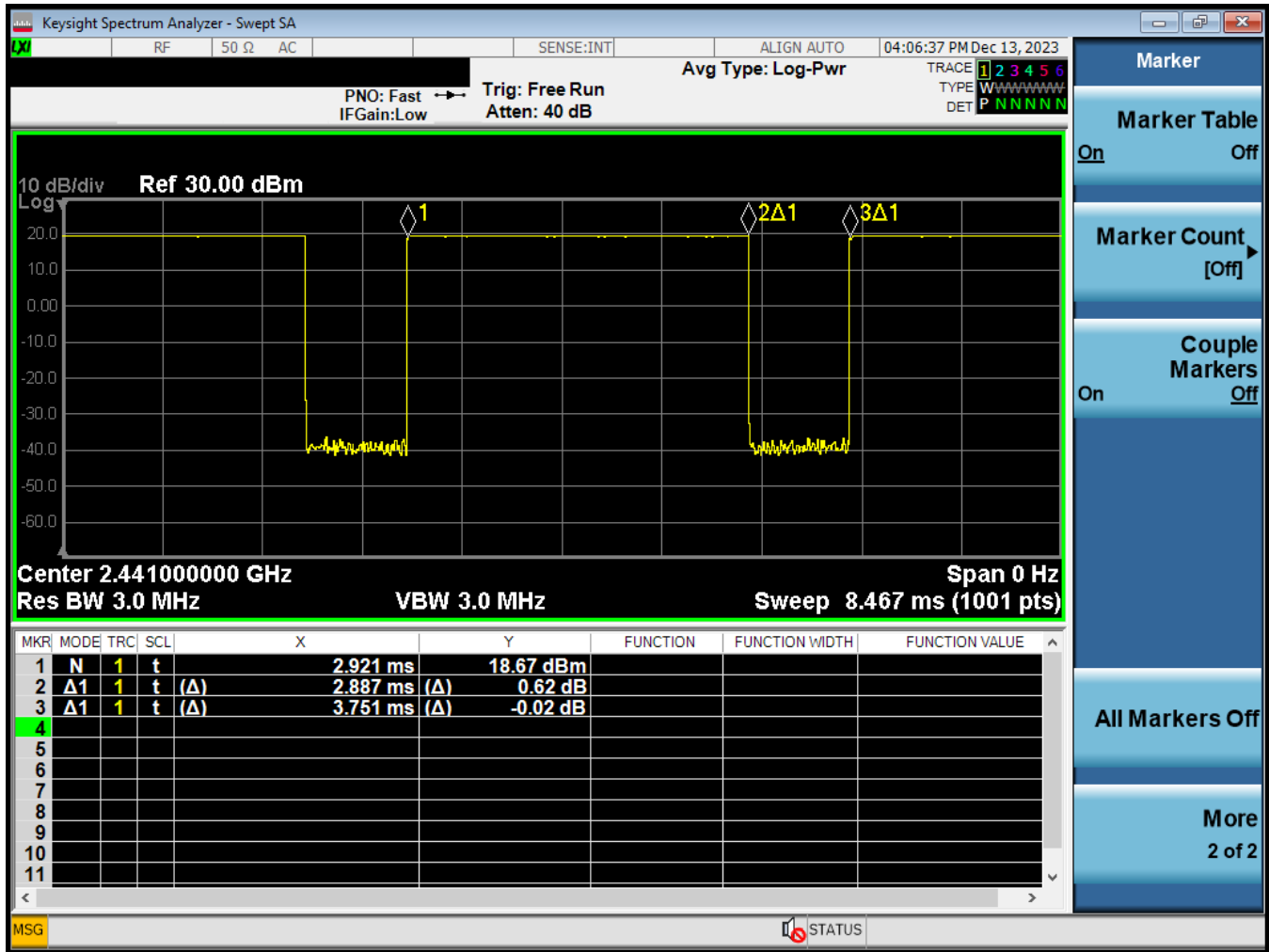
More 2 of 2

MSG STATUS

$$Duty\ Cycle = \frac{Pulse\ Width}{Period} * 100\% = \frac{2.887\ ms}{3.751\ ms} * 100\% = 77.0\%$$

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



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

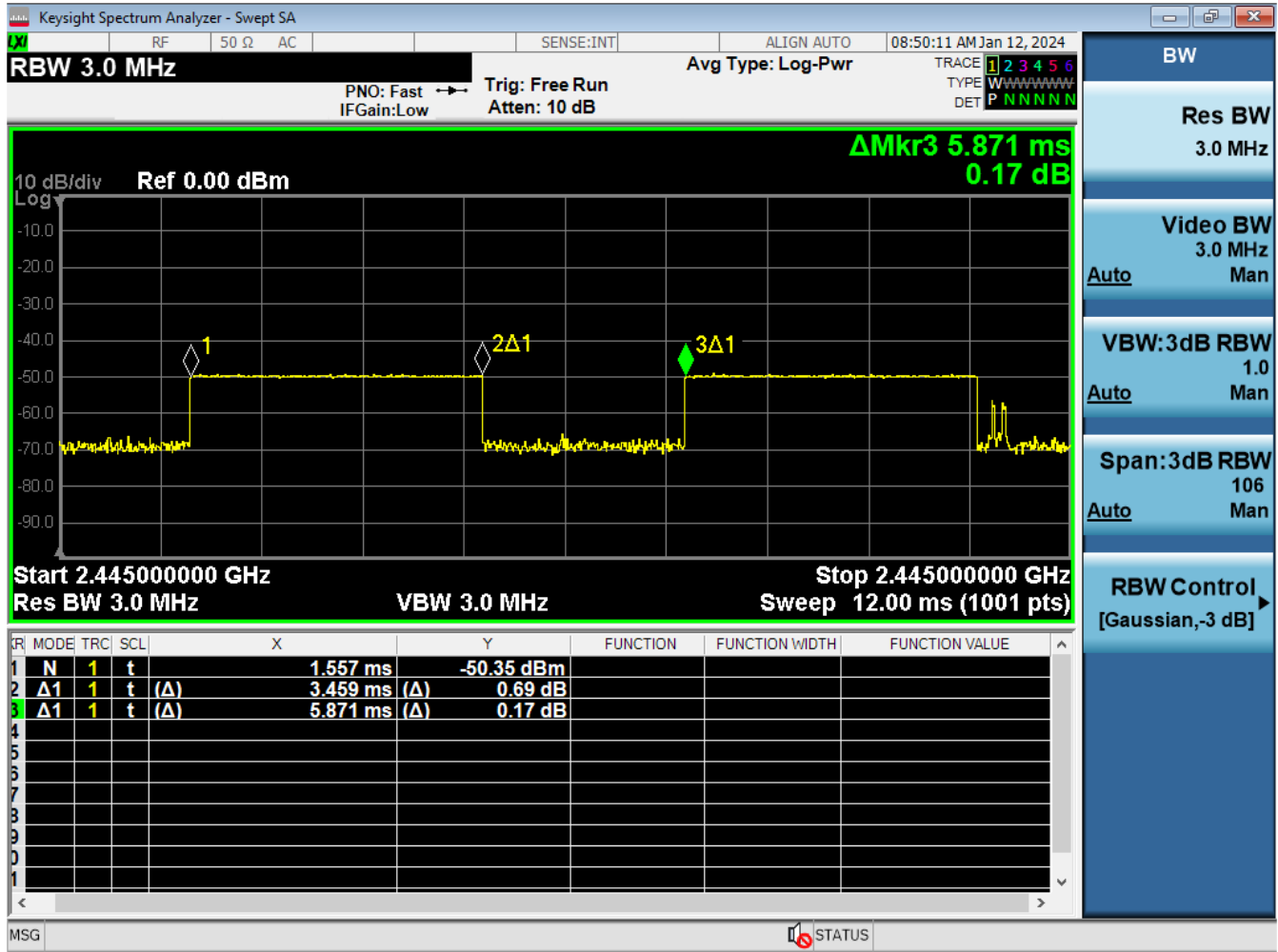
$$Duty\ Cycle = \frac{Pulse\ Width}{Period} * 100\% = \frac{2.887\ ms}{3.751\ ms} * 100\% = 77.0\%$$

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



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

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

$$\text{Duty Cycle} = \frac{\text{Pulse Width}}{\text{Period}} * 100\% = \frac{3.459 \text{ ms}}{5.871 \text{ ms}} * 100\% = 58.9\%$$

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Figure 7-7



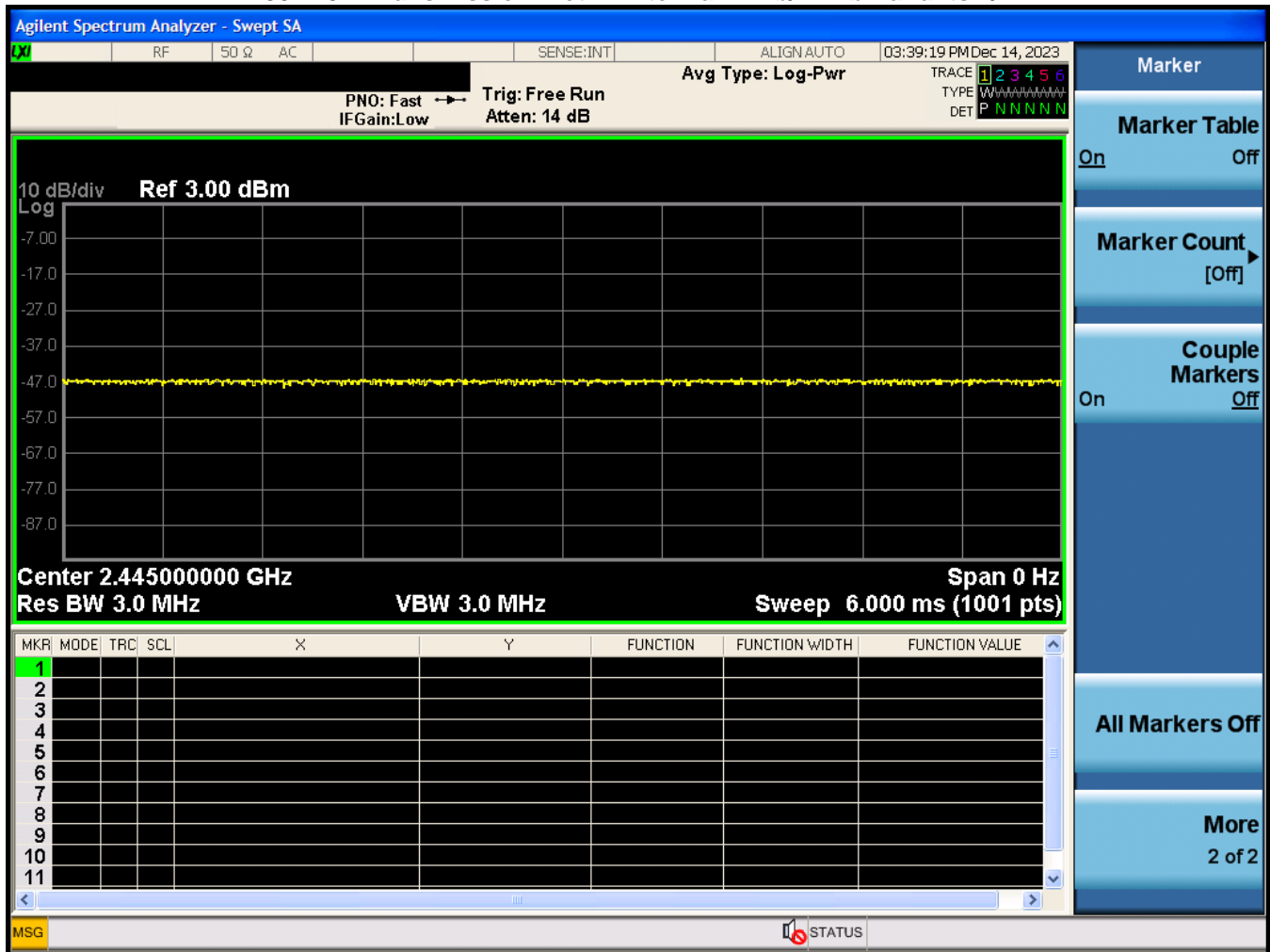
Measured duty cycle as shown above is within the device maximum source-based duty cycle of 60%.

Equation 7-6

$$Duty\ Cycle = \frac{Pulse\ Width}{Period} * 100\% = \frac{3.459\ ms}{5.895\ ms} * 100\% = 58.7\%$$

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Figure 7-8
802.15.4 Transmission Plot – Antenna WF7b/WF2b Variants 1/2



Test mode measured duty cycle for 802.15.4 during SAR measurement.

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

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

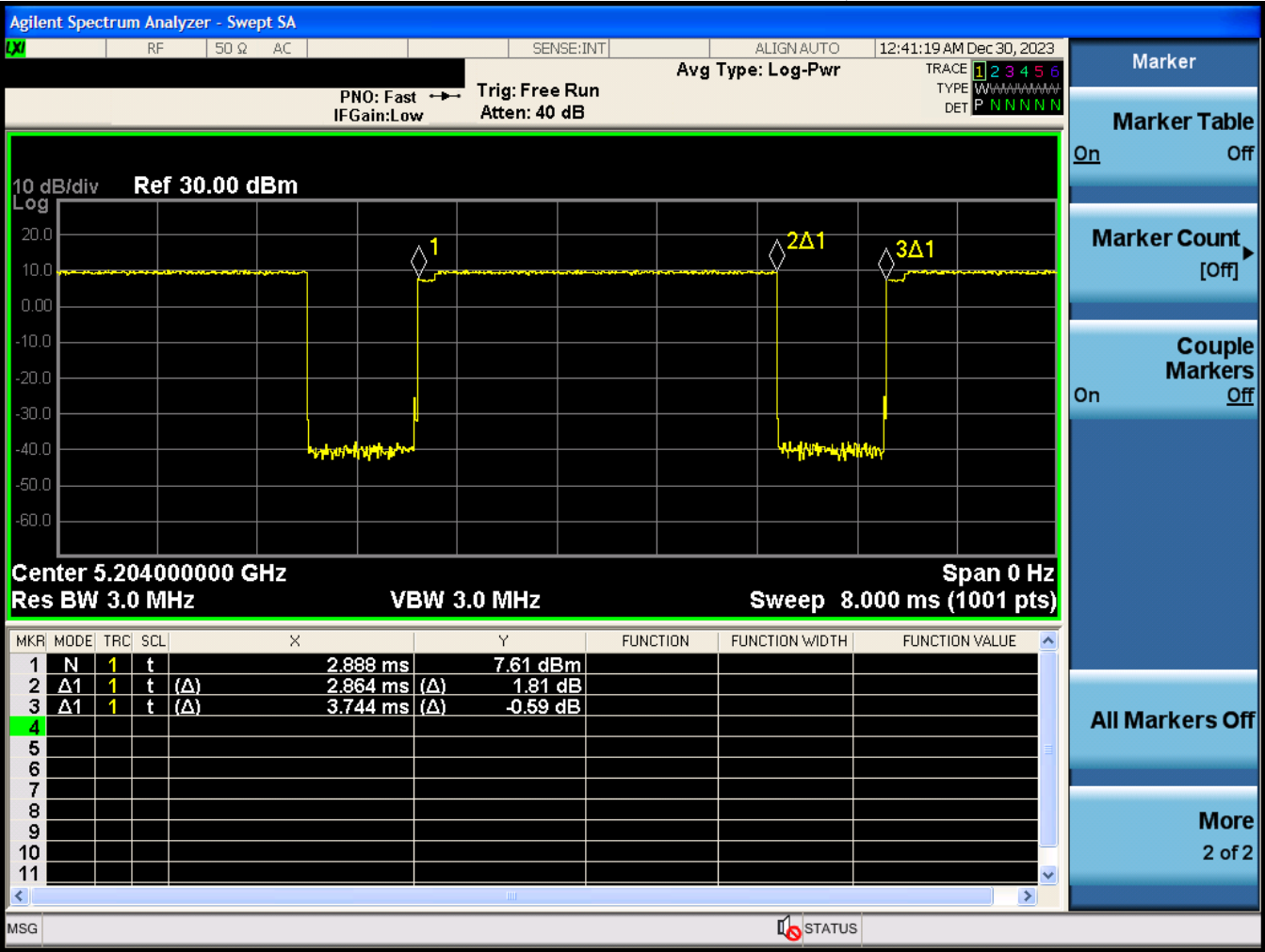
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7.6 NB UNII Duty Cycle Plots

Figure 7-9
NB UNII-1 Transmission Plot – Antenna WF7a, Variant 1



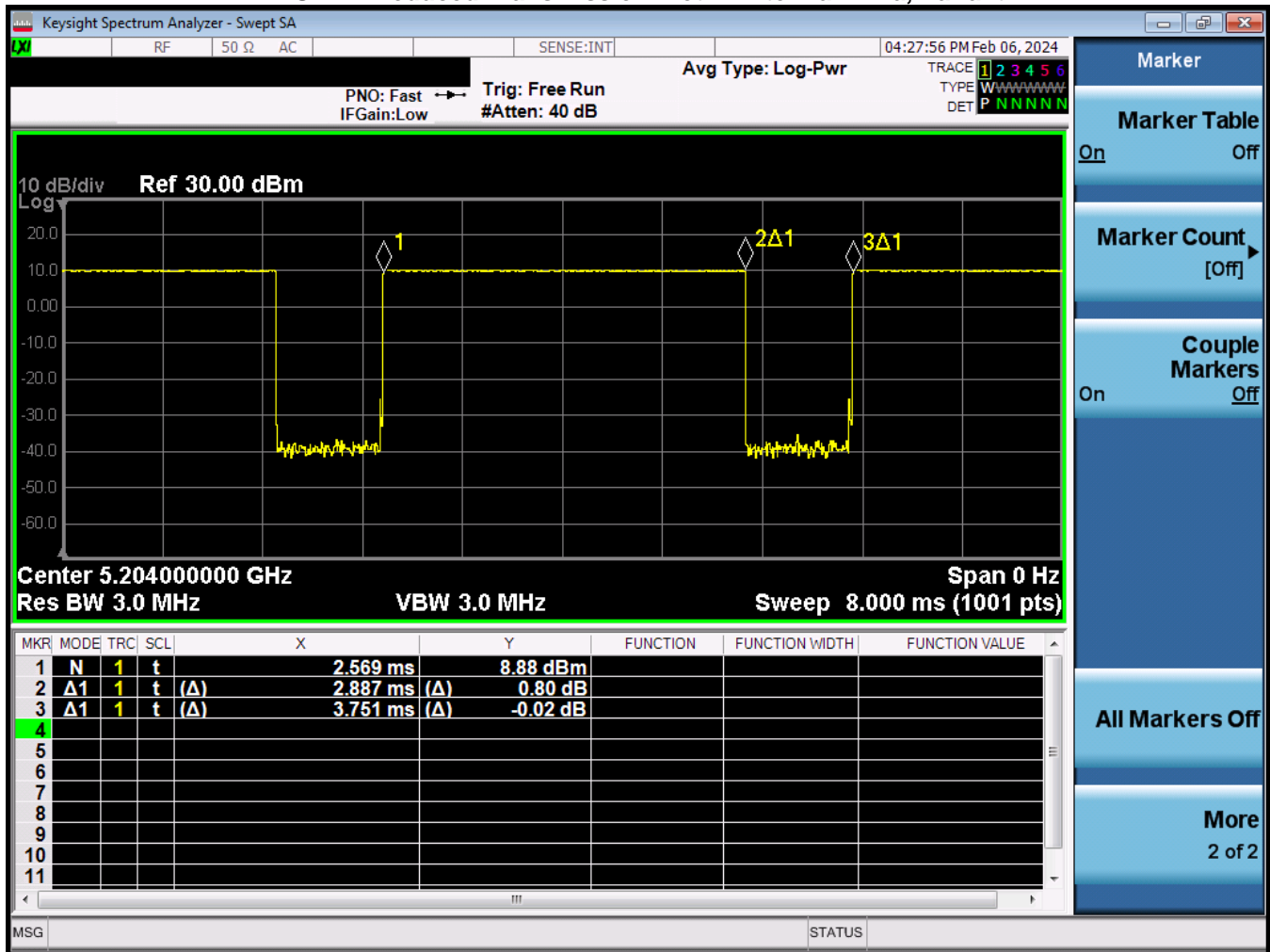
Equation 7-8
NB UNII-1 Duty Cycle Calculation – Antenna WF7a, Variant 1

$$Duty\ Cycle = \frac{Pulse\ Width}{Period} * 100\% = \frac{2.864\ ms}{3.744\ ms} * 100\% = 76.5\%$$

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Figure 7-10
NB UNII-1 Reduced Transmission Plot – Antenna WF7a, Variant 1



Equation 7-9
NB UNII-1 Reduced Duty Cycle Calculation – Antenna WF7a, Variant 1

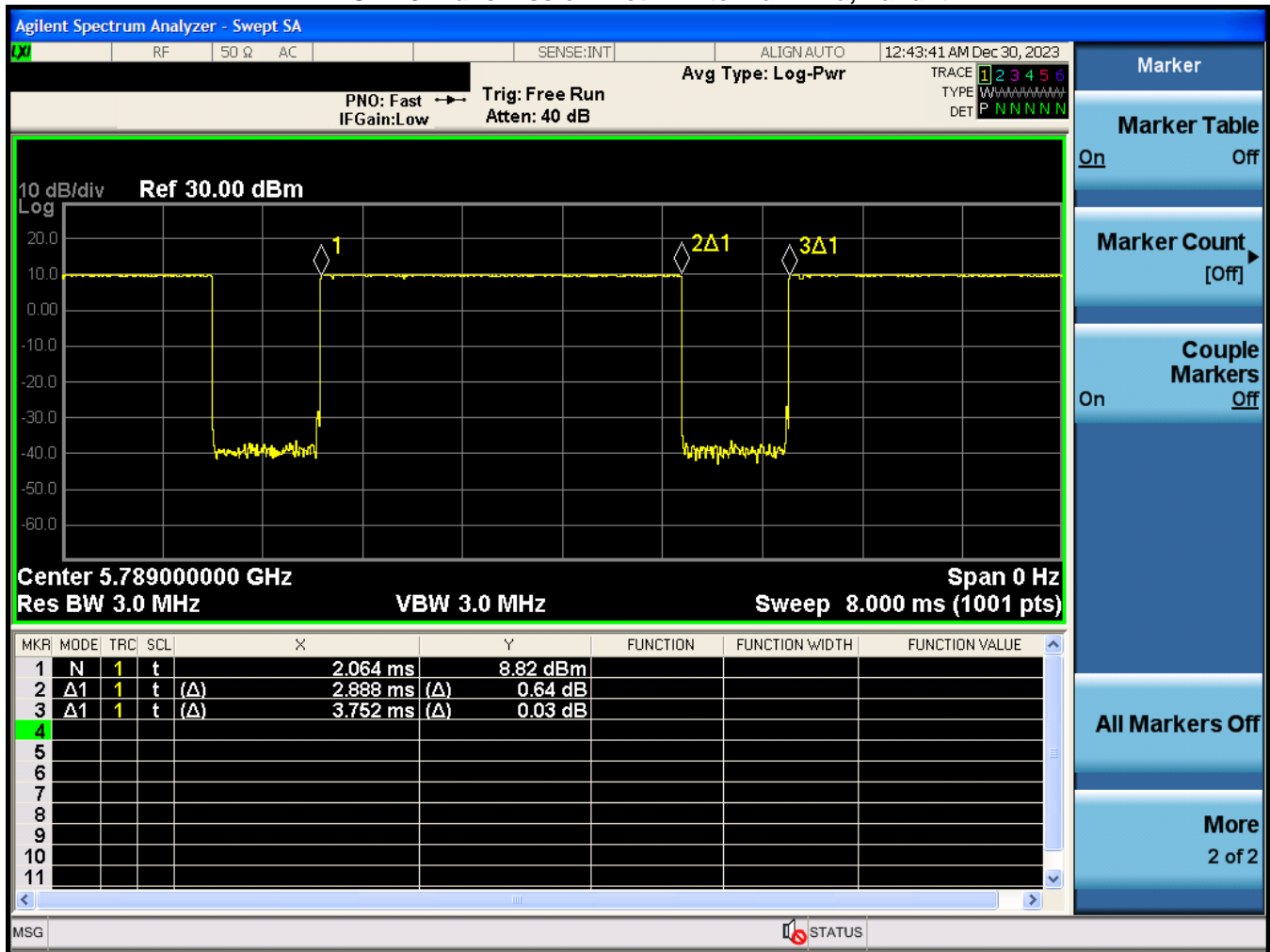
$$Duty\ Cycle = \frac{Pulse\ Width}{Period} * 100\% = \frac{2.887\ ms}{3.751\ ms} * 100\% = 77.0\%$$

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Figure 7-11
NB UNII-3 Transmission Plot – Antenna WF7a, Variant 1



Equation 7-10
NB UNII-3 Duty Cycle Calculation – Antenna WF7a, Variant 1

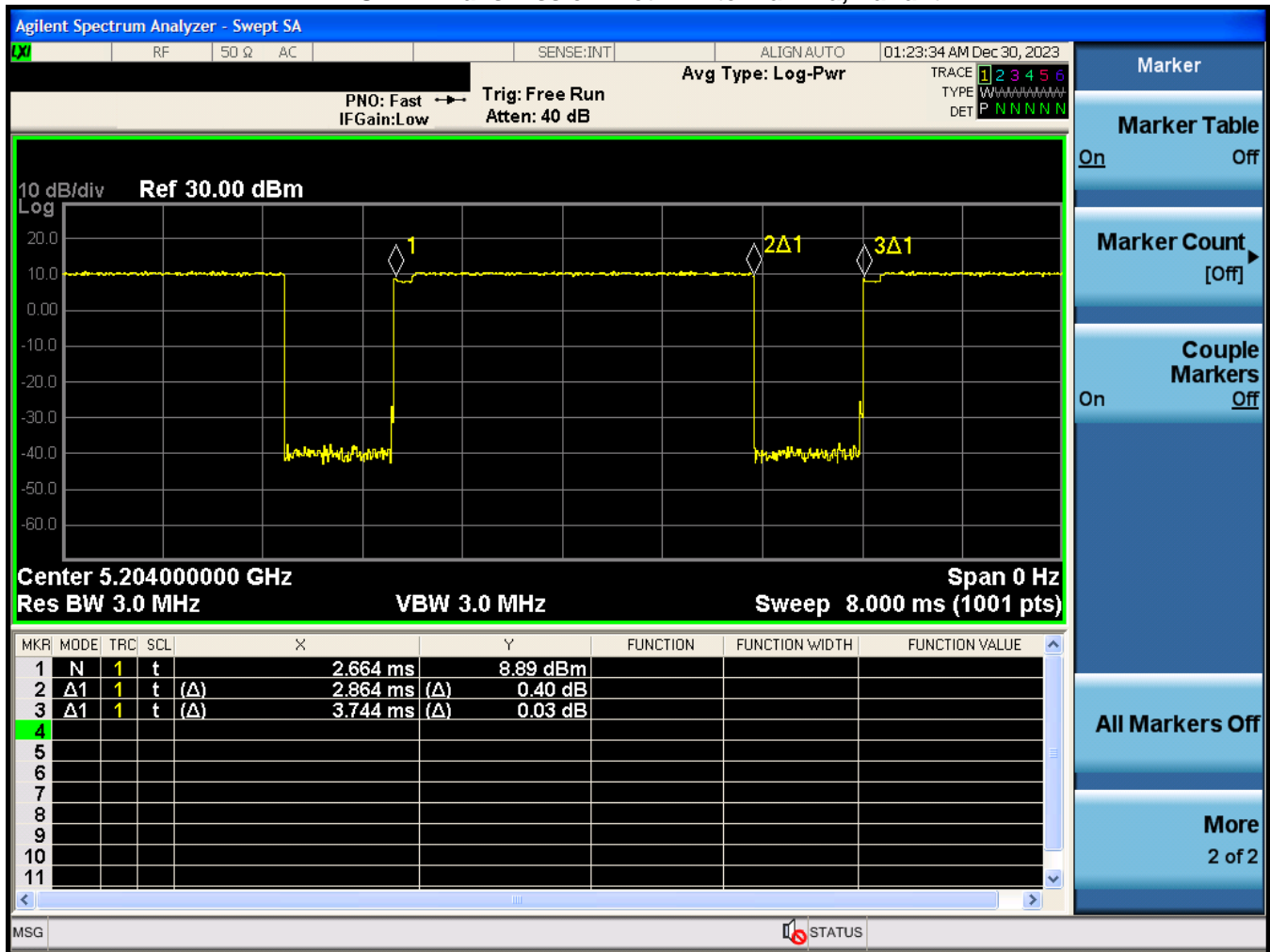
$$Duty\ Cycle = \frac{Pulse\ Width}{Period} * 100\% = \frac{2.888\ ms}{3.752\ ms} * 100\% = 77.0\%$$

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Figure 7-12
NB UNII-1 Transmission Plot – Antenna W7a, Variant 2



Equation 7-11
NB UNII-1 Duty Cycle Calculation – Antenna WF7b, Variant 2

$$Duty\ Cycle = \frac{Pulse\ Width}{Period} * 100\% = \frac{2.864\ ms}{3.744\ ms} * 100\% = 76.5\%$$

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Figure 7-13

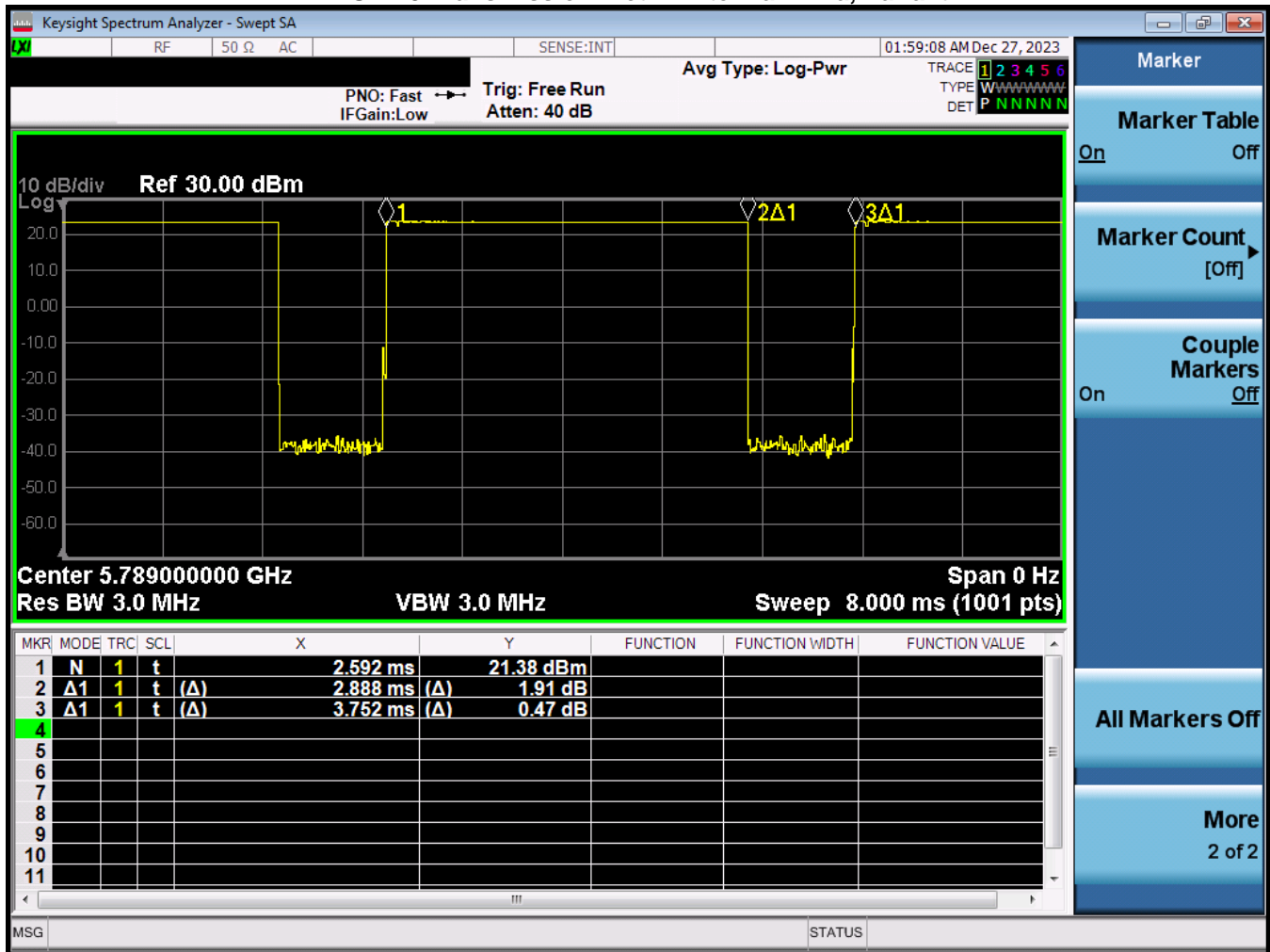


Equation 7-12

$$\text{Duty Cycle} = \frac{\text{Pulse Width}}{\text{Period}} * 100\% = \frac{2.887 \text{ ms}}{3.751 \text{ ms}} * 100\% = 77.0\%$$

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Figure 7-14
NB UNII-3 Transmission Plot – Antenna WF7a, Variant 2



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

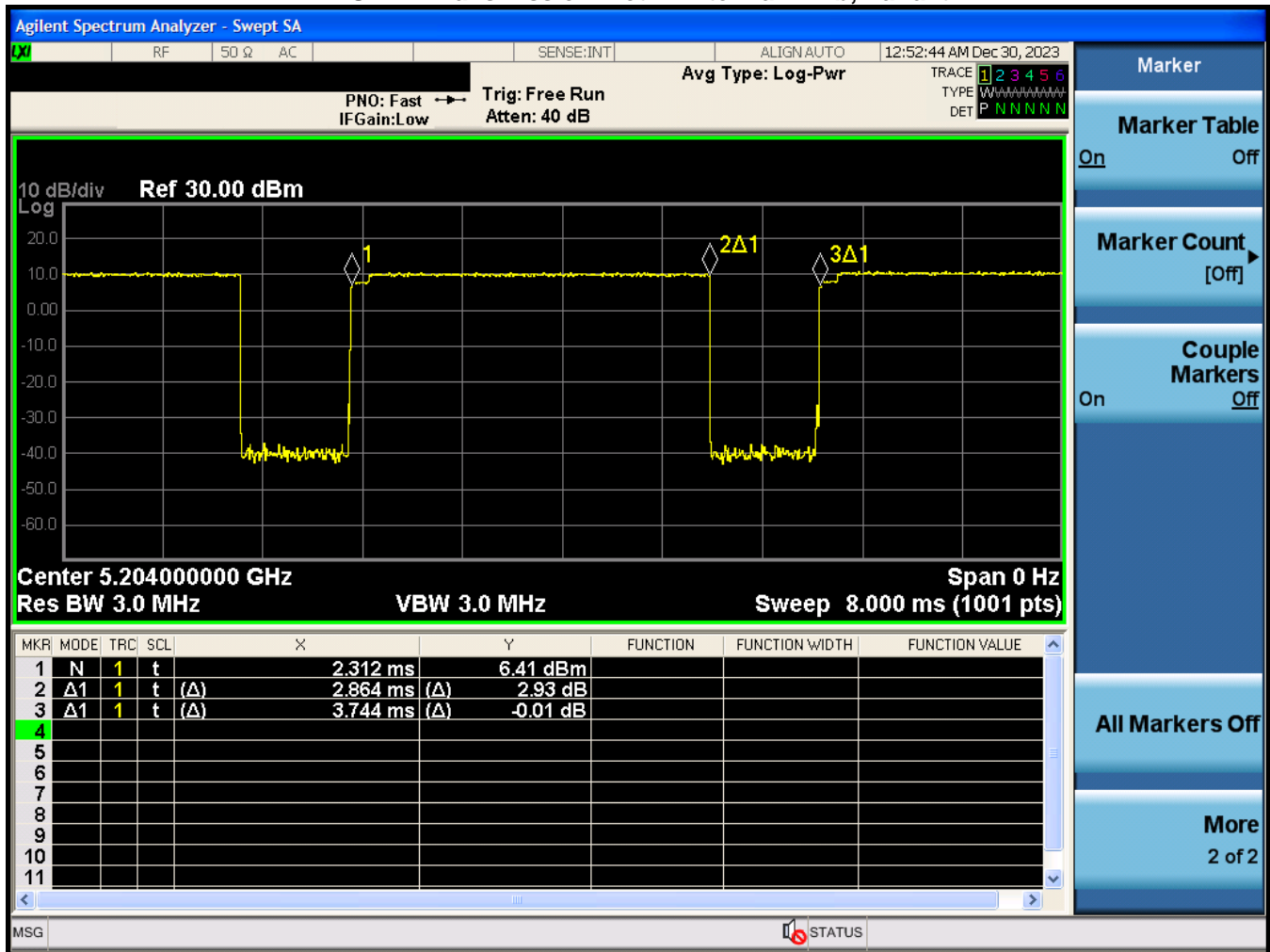
$$\text{Duty Cycle} = \frac{\text{Pulse Width}}{\text{Period}} * 100\% = \frac{2.888 \text{ ms}}{3.752 \text{ ms}} * 100\% = 77.0\%$$

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Figure 7-15
NB UNII-1 Transmission Plot – Antenna WF7b, Variant 1



Equation 7-14
NB UNII-1 Duty Cycle Calculation – Antenna WF7b, Variant 1

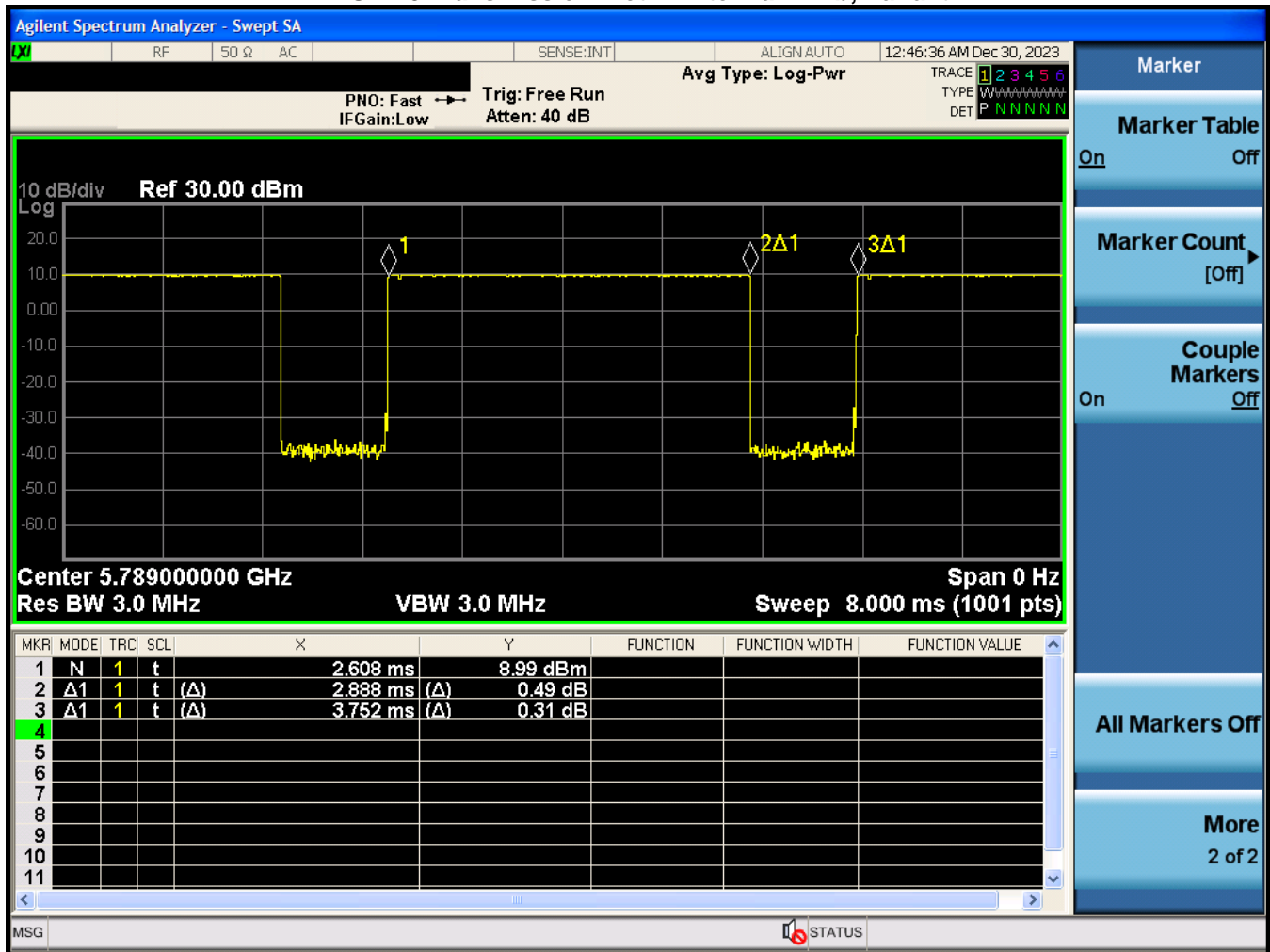
$$Duty\ Cycle = \frac{Pulse\ Width}{Period} * 100\% = \frac{2.864\ ms}{3.744\ ms} * 100\% = 76.5\%$$

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Figure 7-16
NB UNII-3 Transmission Plot – Antenna WF7b, Variant 1



Equation 7-15
NB UNII-3 Duty Cycle Calculation – Antenna WF7b, Variant 1

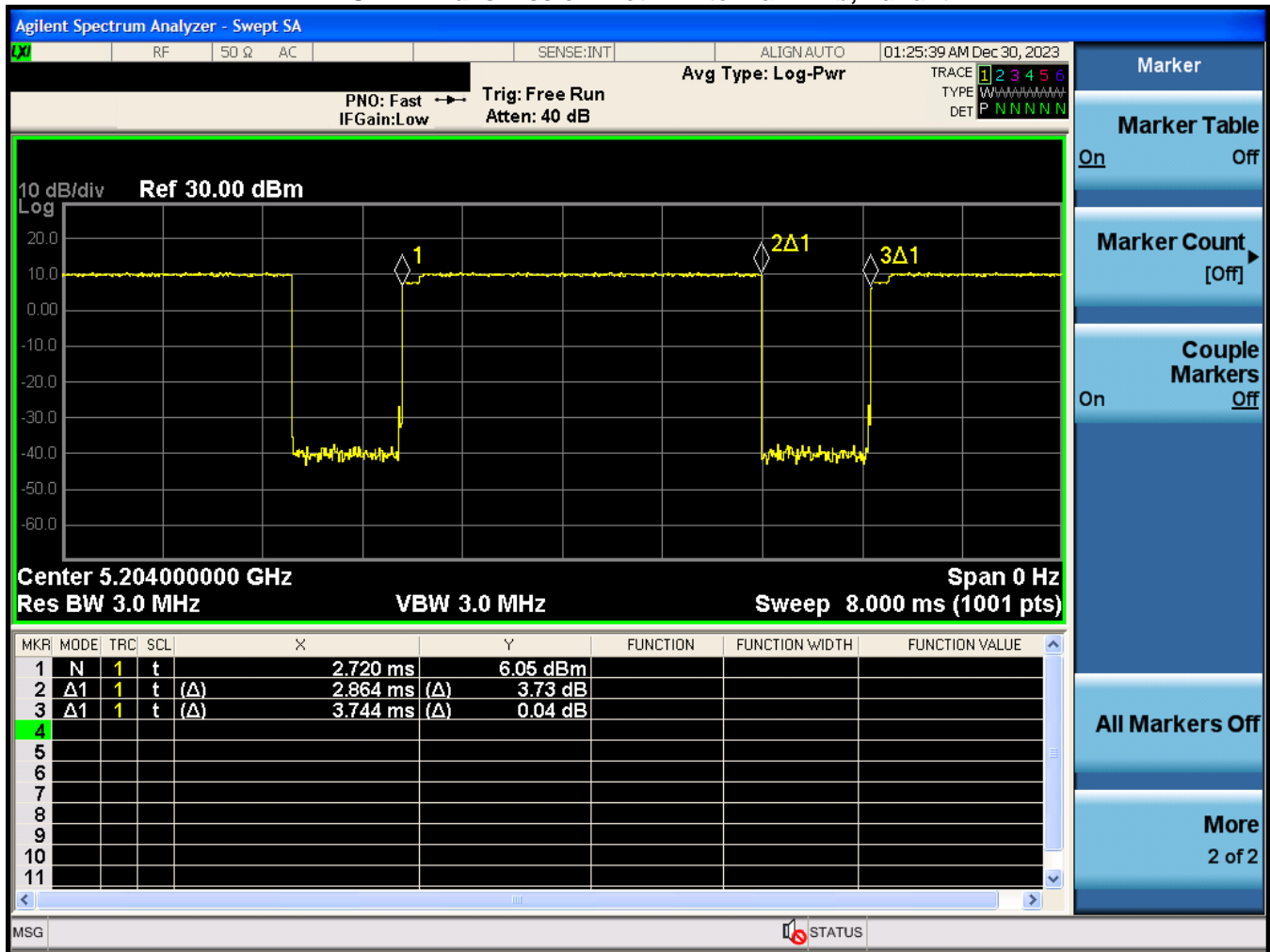
$$Duty\ Cycle = \frac{Pulse\ Width}{Period} * 100\% = \frac{2.888\ ms}{3.752\ ms} * 100\% = 77.0\%$$

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Figure 7-17
NB UNII-1 Transmission Plot – Antenna WF7b, Variant 2



Equation 7-16
NB UNII-1 Duty Cycle Calculation – Antenna WF7b, Variant 2

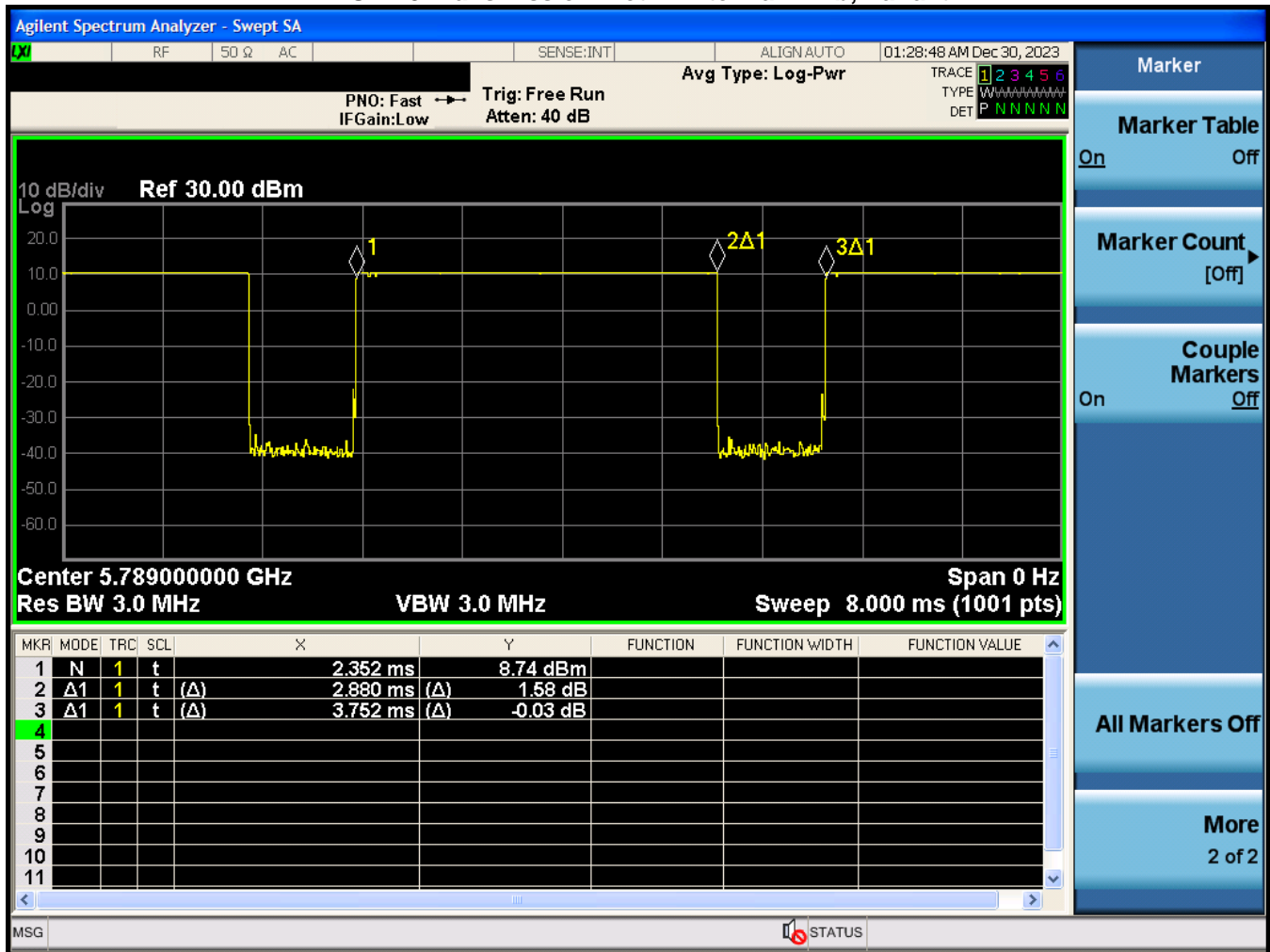
$$Duty\ Cycle = \frac{Pulse\ Width}{Period} * 100\% = \frac{2.864\ ms}{3.744\ ms} * 100\% = 76.5\%$$

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Figure 7-18
NB UNII-3 Transmission Plot – Antenna WF7b, Variant 2



Equation 7-17
NB UNII-3 Duty Cycle Calculation – Antenna WF7b, Variant 2

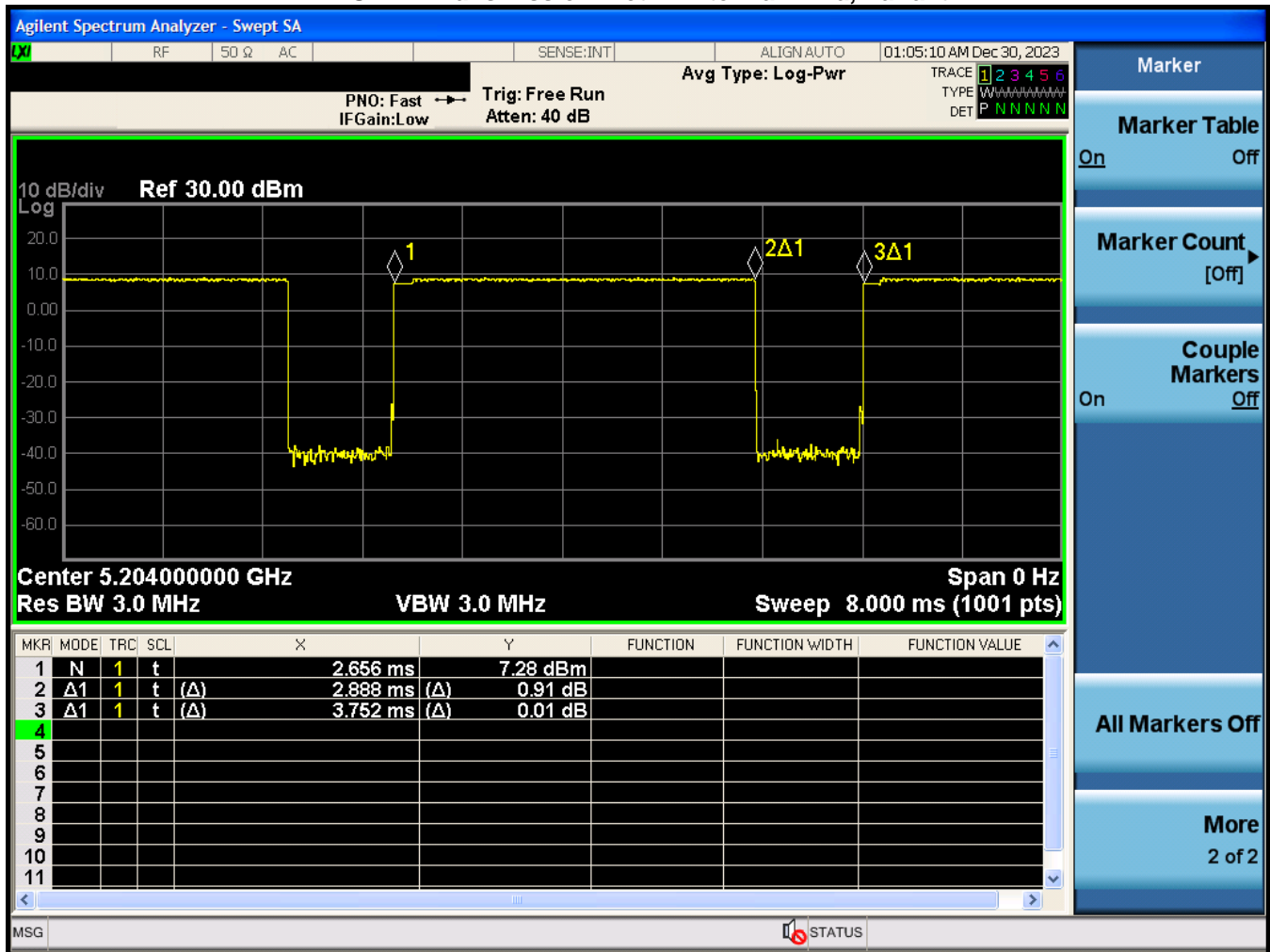
$$Duty\ Cycle = \frac{Pulse\ Width}{Period} * 100\% = \frac{2.880\ ms}{3.752\ ms} * 100\% = 77.0\%$$

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Figure 7-19
NB UNII-1 Transmission Plot – Antenna WF2a, Variant 1



Equation 7-18
NB UNII-1 Duty Cycle Calculation – Antenna WF2a, Variant 1

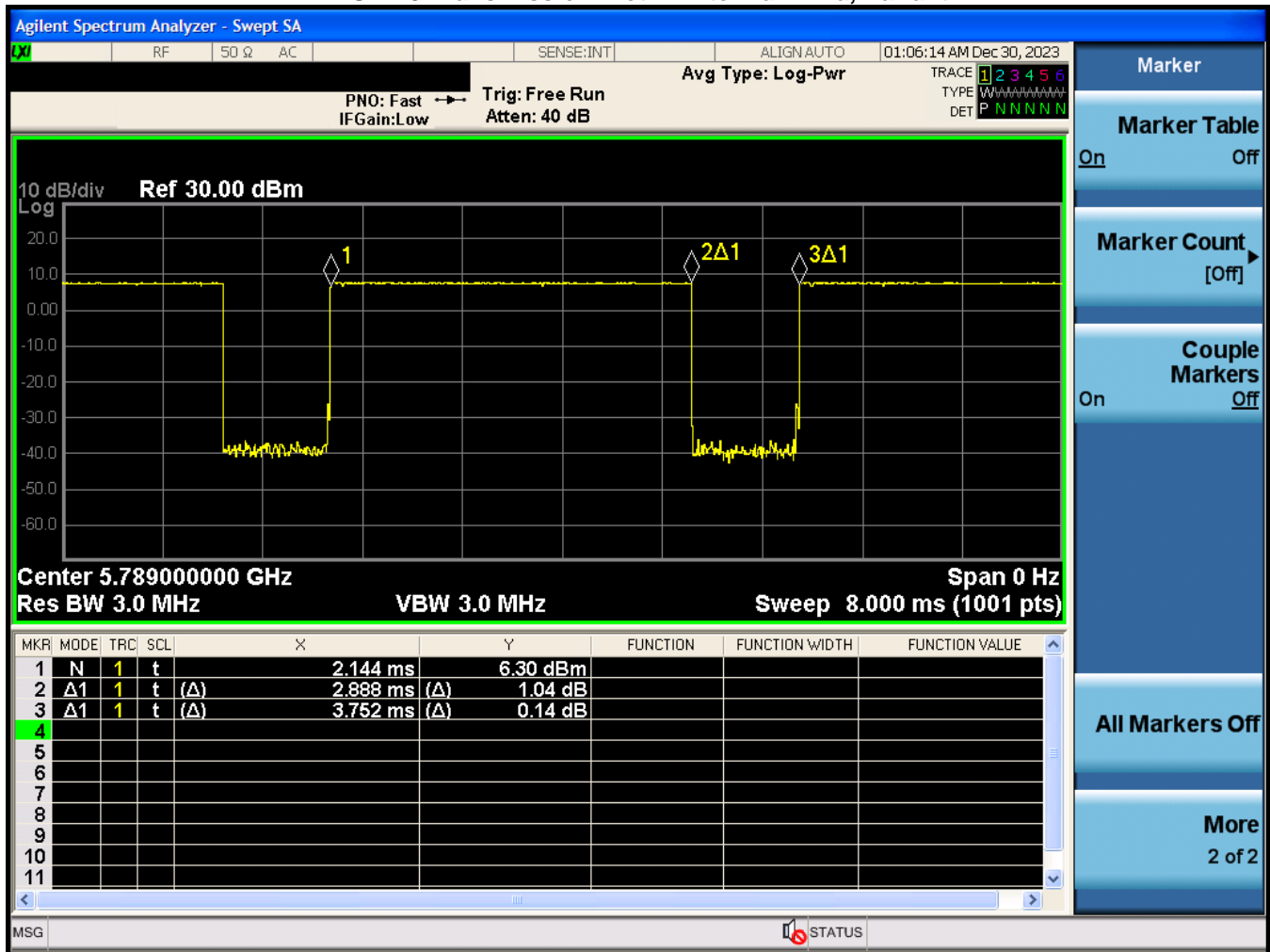
$$\text{Duty Cycle} = \frac{\text{Pulse Width}}{\text{Period}} * 100\% = \frac{2.888 \text{ ms}}{3.752 \text{ ms}} * 100\% = 77.0\%$$

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Figure 7-20
NB UNII-3 Transmission Plot – Antenna WF2a, Variant 1



Equation 7-19
NB UNII-3 Duty Cycle Calculation – Antenna WF2a, Variant 1

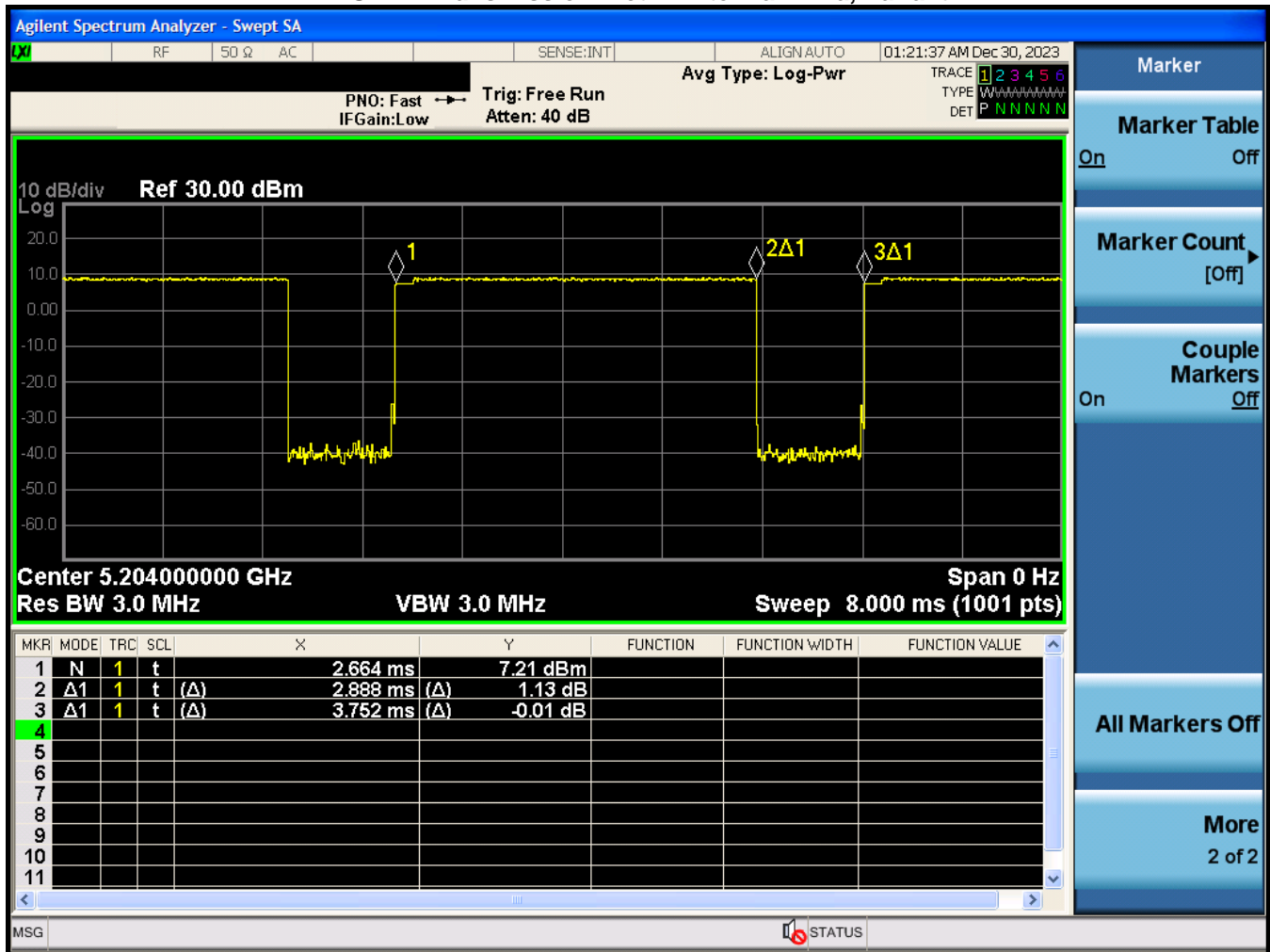
$$\text{Duty Cycle} = \frac{\text{Pulse Width}}{\text{Period}} * 100\% = \frac{2.888 \text{ ms}}{3.752 \text{ ms}} * 100\% = 77.0\%$$

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Figure 7-21
NB UNII-1 Transmission Plot – Antenna WF2a, Variant 2



Equation 7-20
NB UNII Duty-1 Cycle Calculation – Antenna WF2a, Variant 2

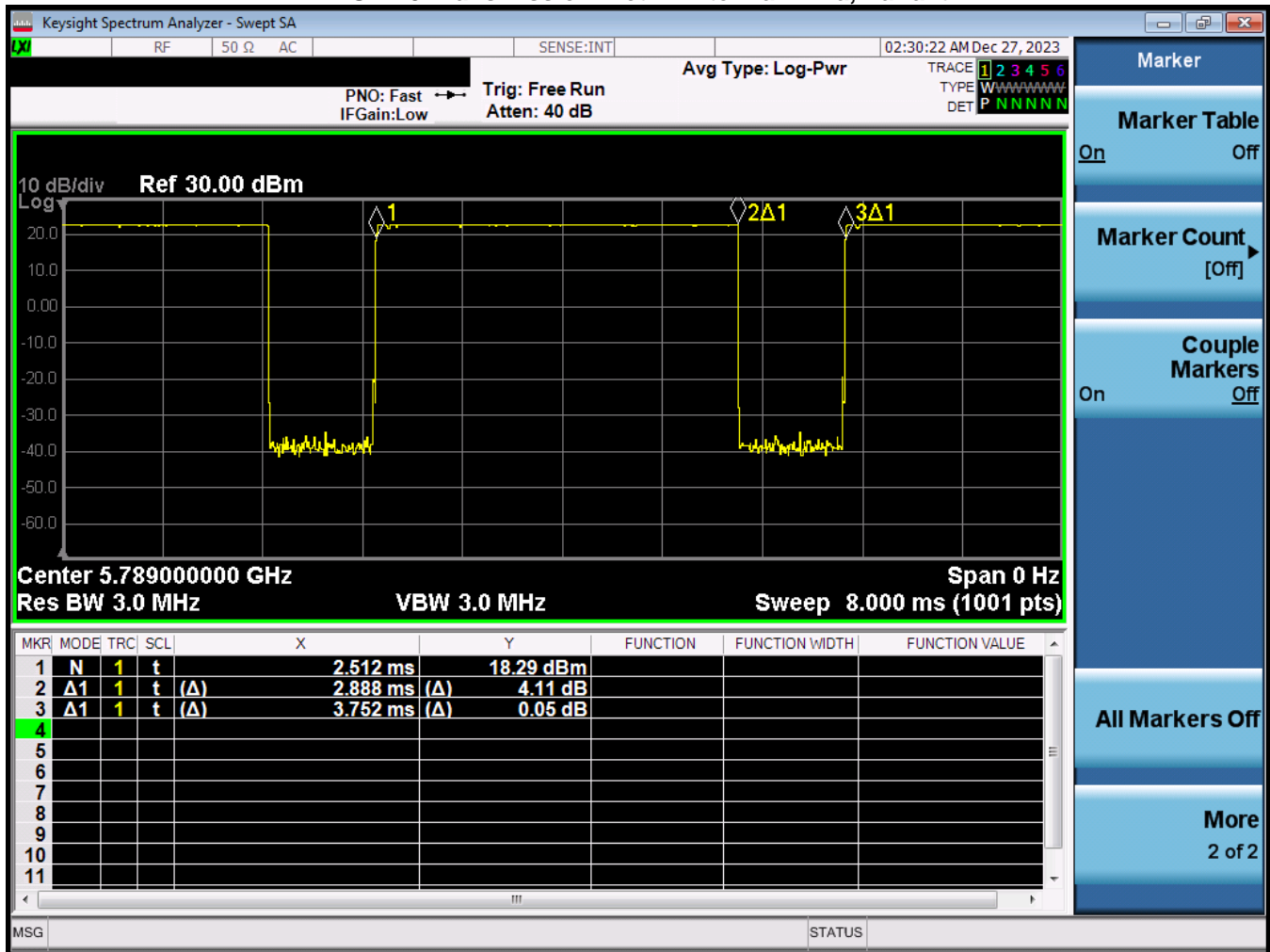
$$Duty\ Cycle = \frac{Pulse\ Width}{Period} * 100\% = \frac{2.888\ ms}{3.752\ ms} * 100\% = 77.0\%$$

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Figure 7-22
NB UNII-3 Transmission Plot – Antenna WF2a, Variant 2



Equation 7-21
NB UNII Duty-3 Cycle Calculation – Antenna WF2a, Variant 2

$$Duty Cycle = \frac{Pulse Width}{Period} * 100\% = \frac{2.888 ms}{3.752 ms} * 100\% = 77.0\%$$

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7.7 Bluetooth Power Reduction Verification Summary

Table 7-43
NB UNII Power Reduction Verification

Antenna	Mode/Band	Condition (s)	Maximum Scenario Maximum Allowed Tune Up Power [dBm]	Reduced Scenario Maximum Allowed Tune Up Power [dBm]	Maximum Measured Power	Reduced Measured Power	Verdict
					[dBm]	[dBm]	
Ant WF7A	NB UNII	2.4 GHz WLAN Ant WF7B ON	13	9	10.2	6.6	PASS
	NB UNII	2.4 GHz WLAN Ant WF2B ON	13	9	10.2	6.6	PASS
	NB UNII	2.4 GHz WLAN Ant WF7B + Ant WF2B ON	13	9	10.2	7.05	PASS
Ant WF2A	NB UNII	2.4 GHz WLAN Ant WF7B ON	14	9	11.43	6.2	PASS
	NB UNII	2.4 GHz WLAN Ant WF2B ON	14	9	11.43	6.2	PASS
	NB UNII	2.4 GHz WLAN Ant WF7B + Ant WF2B ON	14	9	11.43	6.2	PASS
Ant WF7B	NB UNII	2.4 GHz WLAN Ant WF7B ON	12.5	12.5	10.34	10.26	PASS
	NB UNII	2.4 GHz WLAN Ant WF2B ON	12.5	12.5	10.34	10.26	PASS
	NB UNII	2.4 GHz WLAN Ant WF7B + Ant WF2B ON	12.5	12.5	10.34	10.26	PASS

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

Conducted powers were measured for each mode/band and applied condition. All conducted power measurements were verified to be below the maximum allowed.

Table 7-44
Bluetooth/802.15.4 Power Reduction Verification

Antenna	Mode/Band	Condition (s)	Maximum Scenario Maximum Allowed Tune Up Power [dBm]	Reduced Scenario Maximum Allowed Tune Up Power [dBm]	Maximum Measured Power	Reduced Measured Power	Verdict
					[dBm]	[dBm]	
Ant WF7B	2.4 GHz Bluetooth	5/6 GHz WLAN Ant WF7B ON	20	13	17.93	11.93	PASS
	2.4 GHz Bluetooth	5/6 GHz WLAN Ant WF7A ON	20	13	17.93	11.93	PASS
	2.4 GHz Bluetooth	5/6 GHz WLAN Ant WF2A ON	20	13	17.93	11.93	PASS
	802.15.4	5/6 GHz WLAN Ant WF7A + Ant WF2A ON	21	15.5	20.35	13.88	PASS
	802.15.4	5/6 GHz WLAN Ant WF2A + Ant WF7B ON	21	15.5	20.35	13.88	PASS
Ant WF2B	802.15.4	5/6 GHz WLAN Ant WF7B ON	21	16	20.97	13.23	PASS
	802.15.4	5/6 GHz WLAN Ant WF7A ON	21	16	20.97	13.23	PASS
	802.15.4	5/6 GHz WLAN Ant WF2A ON	21	16	20.97	13.23	PASS
	2.4 GHz Bluetooth	5/6 GHz WLAN Ant WF7A + Ant WF2A ON	20	13	19.95	11.95	PASS
	2.4 GHz Bluetooth	5/6 GHz WLAN Ant WF2A + Ant WF7B ON	20	13	19.95	11.95	PASS

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

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

7.8 Notes for Bluetooth/802.15/NB UNII

- The 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.
- Bluetooth SAR worst case configuration was spotchecked on Variant 1 and Variant 2.
- Full power measurements were performed for Variant 1 and Variant 2 per FCC KDB Procedures 248227.

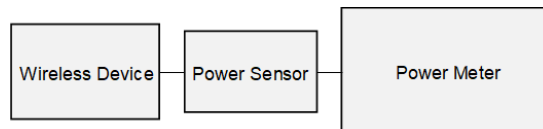


Figure 7-23
Power Measurement Setup

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8 SYSTEM VERIFICATION

8.1 Tissue Verification

Table 8-1
Measured Tissue Properties

Calibrated for Tests Performed on:	Tissue Type	Tissue Temp During Calibration (°C)	Measured Frequency (MHz)	Measured Conductivity, σ (S/m)	Measured Dielectric Constant, ϵ	TARGET Conductivity, σ (S/m)	TARGET Dielectric Constant, ϵ	% dev σ	% dev ϵ
01/02/2024	30 Head	22.6	12	0.725	53.346	0.750	55.000	-3.33%	-3.01%
			13	0.725	53.337	0.750	55.000	-3.33%	-3.02%
			14	0.725	53.291	0.750	55.000	-3.33%	-3.11%
			30	0.728	52.949	0.750	55.000	-2.93%	-3.73%
			60	0.733	52.109	0.753	54.325	-2.66%	-4.08%
			65	0.735	52.018	0.753	54.213	-2.39%	-4.05%
12/11/2023	2450 Head	19.1	150	0.763	50.363	0.760	52.300	0.39%	-3.70%
			2300	1.606	40.437	1.670	39.500	-3.83%	2.37%
			2310	1.613	40.420	1.679	39.480	-3.93%	2.38%
			2320	1.620	40.404	1.687	39.460	-3.97%	2.39%
			2400	1.684	40.295	1.756	39.289	-4.10%	2.56%
			2450	1.725	40.202	1.800	39.200	-4.17%	2.56%
12/13/2023	2450 Head	20.2	2480	1.749	40.168	1.833	39.162	-4.58%	2.57%
			2300	1.633	39.457	1.670	39.500	-2.22%	-0.11%
			2310	1.639	39.443	1.679	39.480	-2.38%	-0.09%
			2320	1.646	39.423	1.687	39.460	-2.43%	-0.09%
			2400	1.707	39.318	1.756	39.289	-2.79%	0.07%
			2450	1.744	39.213	1.800	39.200	-3.11%	0.03%
			2480	1.768	39.179	1.833	39.162	-3.55%	0.04%
			2500	1.783	39.154	1.855	39.136	-3.88%	0.05%
			2510	1.790	39.137	1.866	39.123	-4.07%	0.04%
			2535	1.809	39.084	1.893	39.092	-4.44%	-0.02%
			2550	1.822	39.048	1.909	39.073	-4.56%	-0.06%
			2560	1.832	39.029	1.920	39.060	-4.58%	-0.08%

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Calibrated for Tests Performed on:	Tissue Type	Tissue Temp During Calibration (°C)	Measured Frequency (MHz)	Measured Conductivity, σ (S/m)	Measured Dielectric Constant, ϵ	TARGET Conductivity, σ (S/m)	TARGET Dielectric Constant, ϵ	% dev σ	% dev ϵ
12/14/2023	5200-5800 Head	19.0	5180	4.423	35.050	4.635	36.009	-4.57%	-2.66%
			5190	4.440	35.034	4.645	35.998	-4.41%	-2.68%
			5200	4.453	35.029	4.655	35.986	-4.34%	-2.66%
			5210	4.461	35.023	4.666	35.975	-4.39%	-2.65%
			5220	4.465	35.007	4.676	35.963	-4.51%	-2.66%
			5240	4.487	34.962	4.696	35.940	-4.45%	-2.72%
			5250	4.497	34.960	4.706	35.929	-4.44%	-2.70%
			5260	4.507	34.936	4.717	35.917	-4.45%	-2.73%
			5270	4.523	34.907	4.727	35.906	-4.32%	-2.78%
			5280	4.538	34.872	4.737	35.894	-4.20%	-2.85%
			5290	4.550	34.853	4.748	35.883	-4.17%	-2.87%
			5300	4.560	34.847	4.758	35.871	-4.16%	-2.85%
			5320	4.586	34.837	4.778	35.849	-4.02%	-2.82%
			5500	4.782	34.494	4.963	35.643	-3.65%	-3.22%
			5510	4.789	34.474	4.973	35.632	-3.70%	-3.25%
			5520	4.795	34.457	4.983	35.620	-3.77%	-3.27%
			5530	4.805	34.449	4.994	35.609	-3.78%	-3.26%
			5540	4.820	34.436	5.004	35.597	-3.68%	-3.26%
			5550	4.830	34.427	5.014	35.586	-3.67%	-3.26%
			5560	4.836	34.413	5.024	35.574	-3.74%	-3.26%
			5580	4.852	34.367	5.045	35.551	-3.83%	-3.33%
			5600	4.887	34.292	5.065	35.529	-3.51%	-3.48%
			5610	4.902	34.282	5.076	35.518	-3.43%	-3.48%
			5620	4.915	34.273	5.086	35.506	-3.36%	-3.47%
			5640	4.938	34.243	5.106	35.483	-3.29%	-3.49%
			5660	4.954	34.217	5.127	35.460	-3.37%	-3.51%
			5670	4.960	34.197	5.137	35.449	-3.45%	-3.53%
			5680	4.968	34.168	5.147	35.437	-3.48%	-3.58%
			5690	4.980	34.134	5.158	35.426	-3.45%	-3.65%
			5700	4.998	34.103	5.168	35.414	-3.29%	-3.70%
			5710	5.014	34.082	5.178	35.403	-3.17%	-3.73%
			5720	5.029	34.076	5.188	35.391	-3.06%	-3.72%
			5745	5.054	34.049	5.214	35.363	-3.07%	-3.72%
			5750	5.061	34.041	5.219	35.357	-3.03%	-3.72%
			5755	5.064	34.033	5.224	35.351	-3.06%	-3.73%
			5765	5.072	34.012	5.234	35.340	-3.10%	-3.76%
			5775	5.076	34.000	5.245	35.329	-3.22%	-3.76%
			5785	5.082	33.977	5.255	35.317	-3.29%	-3.79%
			5795	5.092	33.939	5.265	35.305	-3.29%	-3.87%
			5800	5.099	33.921	5.270	35.300	-3.24%	-3.91%
			5800	5.099	33.921	5.270	35.300	-3.24%	-3.91%
			5805	5.108	33.906	5.275	35.294	-3.17%	-3.93%
			5825	5.138	33.874	5.296	35.271	-2.98%	-3.96%
			5835	5.155	33.866	5.305	35.230	-2.83%	-3.87%
			5845	5.166	33.857	5.315	35.210	-2.80%	-3.84%
			5855	5.174	33.845	5.325	35.197	-2.84%	-3.84%
			5865	5.180	33.829	5.336	35.190	-2.92%	-3.87%
			5865	5.180	33.829	5.336	35.190	-2.92%	-3.87%
			5865	5.180	33.829	5.336	35.190	-2.92%	-3.87%
			5875	5.190	33.806	5.347	35.183	-2.94%	-3.91%
			5885	5.201	33.786	5.357	35.177	-2.91%	-3.95%
			5905	5.225	33.722	5.379	35.163	-2.86%	-4.10%

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12/20/2023	5200-5800 Head	20.0	5180	4.427	36.646	4.635	36.009	-4.49%	1.77%
			5190	4.435	36.639	4.645	35.998	-4.52%	1.78%
			5200	4.441	36.634	4.655	35.986	-4.60%	1.80%
			5210	4.448	36.613	4.666	35.975	-4.67%	1.77%
			5220	4.456	36.581	4.676	35.963	-4.70%	1.72%
			5240	4.482	36.523	4.696	35.940	-4.56%	1.62%
			5250	4.489	36.496	4.706	35.929	-4.61%	1.58%
			5260	4.498	36.475	4.717	35.917	-4.64%	1.55%
			5270	4.511	36.452	4.727	35.906	-4.57%	1.52%
			5280	4.529	36.425	4.737	35.894	-4.39%	1.48%
			5290	4.545	36.419	4.748	35.883	-4.28%	1.49%
			5300	4.559	36.414	4.758	35.871	-4.18%	1.51%
			5310	4.573	36.401	4.768	35.860	-4.09%	1.51%
			5320	4.585	36.382	4.778	35.849	-4.04%	1.49%
			5500	4.778	36.040	4.963	35.643	-3.73%	1.11%
			5510	4.790	36.021	4.973	35.632	-3.68%	1.09%
			5520	4.799	35.996	4.983	35.620	-3.69%	1.06%
			5530	4.810	35.967	4.994	35.609	-3.68%	1.01%
			5540	4.825	35.952	5.004	35.597	-3.58%	1.00%
			5550	4.841	35.950	5.014	35.586	-3.45%	1.02%
			5560	4.854	35.949	5.024	35.574	-3.38%	1.05%
			5580	4.872	35.920	5.045	35.551	-3.43%	1.04%
			5600	4.897	35.877	5.065	35.529	-3.32%	0.98%
			5610	4.909	35.874	5.076	35.518	-3.29%	1.00%
			5620	4.916	35.853	5.086	35.506	-3.34%	0.98%
			5640	4.936	35.794	5.106	35.483	-3.33%	0.88%
			5660	4.957	35.771	5.127	35.460	-3.32%	0.88%
			5670	4.969	35.752	5.137	35.449	-3.27%	0.85%
			5680	4.981	35.731	5.147	35.437	-3.23%	0.83%
			5690	4.996	35.712	5.158	35.426	-3.14%	0.81%
			5700	5.010	35.706	5.168	35.414	-3.06%	0.82%
			5710	5.025	35.695	5.178	35.403	-2.95%	0.82%
			5720	5.035	35.688	5.188	35.391	-2.95%	0.84%
			5745	5.058	35.627	5.214	35.363	-2.99%	0.75%
			5750	5.062	35.618	5.219	35.357	-3.01%	0.74%
			5755	5.068	35.612	5.224	35.351	-2.99%	0.74%
			5765	5.077	35.601	5.234	35.340	-3.00%	0.74%
			5775	5.085	35.594	5.245	35.329	-3.05%	0.75%
			5785	5.092	35.568	5.255	35.317	-3.10%	0.71%
			5795	5.100	35.547	5.265	35.305	-3.13%	0.69%
			5800	5.106	35.539	5.270	35.300	-3.11%	0.68%
			5800	5.106	35.539	5.270	35.300	-3.11%	0.68%
			5805	5.112	35.528	5.275	35.294	-3.09%	0.66%
			5825	5.139	35.497	5.296	35.271	-2.96%	0.64%
			5835	5.149	35.480	5.305	35.230	-2.94%	0.71%
			5845	5.157	35.473	5.315	35.210	-2.97%	0.75%
			5855	5.173	35.457	5.325	35.197	-2.85%	0.74%
			5865	5.192	35.440	5.336	35.190	-2.70%	0.71%
			5865	5.192	35.440	5.336	35.190	-2.70%	0.71%
			5865	5.192	35.440	5.336	35.190	-2.70%	0.71%
			5865	5.192	35.440	5.336	35.190	-2.70%	0.71%
			5875	5.206	35.415	5.347	35.183	-2.64%	0.66%
			5885	5.217	35.390	5.357	35.177	-2.61%	0.61%
			5905	5.231	35.350	5.379	35.163	-2.75%	0.53%

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Calibrated for Tests Performed on:	Tissue Type	Tissue Temp During Calibration (°C)	Measured Frequency (MHz)	Measured Conductivity, σ (S/m)	Measured Dielectric Constant, ϵ	TARGET Conductivity, σ (S/m)	TARGET Dielectric Constant, ϵ	% dev σ	% dev ϵ
12/15/2023	6000 Head	19.0	5935	5.304	36.376	5.411	35.143	-1.98%	3.51%
			5970	5.352	36.309	5.448	35.120	-1.76%	3.39%
			5985	5.377	36.276	5.464	35.110	-1.59%	3.32%
			6000	5.400	36.247	5.480	35.100	-1.46%	3.27%
			6025	5.431	36.206	5.510	35.070	-1.43%	3.24%
			6065	5.471	36.124	5.557	35.022	-1.55%	3.15%
			6075	5.484	36.102	5.569	35.010	-1.53%	3.12%
			6085	5.499	36.079	5.580	34.998	-1.45%	3.09%
			6185	5.633	35.898	5.698	34.878	-1.14%	2.92%
			6275	5.759	35.720	5.805	34.770	-0.79%	2.73%
			6285	5.767	35.698	5.816	34.758	-0.84%	2.70%
			6305	5.788	35.648	5.840	34.734	-0.89%	2.63%
			6345	5.845	35.600	5.887	34.686	-0.71%	2.64%
			6475	6.018	35.346	6.041	34.530	-0.38%	2.36%
			6485	6.030	35.322	6.052	34.518	-0.36%	2.33%
			6500	6.054	35.286	6.070	34.500	-0.26%	2.28%
			6505	6.063	35.271	6.076	34.494	-0.21%	2.25%
			6545	6.128	35.207	6.122	34.446	0.10%	2.21%
			6665	6.303	34.989	6.265	34.302	0.61%	2.00%
			6675	6.312	34.976	6.273	34.290	0.62%	2.00%
			6685	6.323	34.959	6.285	34.278	0.60%	1.99%
			6715	6.356	34.880	6.319	34.242	0.59%	1.86%
			6785	6.458	34.775	6.400	34.158	0.91%	1.81%
			6825	6.512	34.652	6.447	34.110	1.01%	1.59%
			6985	6.712	34.401	6.633	33.918	1.19%	1.42%
			6995	6.719	34.401	6.644	33.906	1.13%	1.46%
			7000	6.721	34.395	6.650	33.900	1.07%	1.46%
			7005	6.728	34.388	6.656	33.894	1.08%	1.46%
			7025	6.756	34.338	6.680	33.870	1.14%	1.38%
			7500	7.312	33.485	7.240	33.300	0.99%	0.56%
			7980	7.824	32.738	7.816	32.724	0.10%	0.04%
			8000	7.857	32.664	7.840	32.700	0.22%	-0.11%

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

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

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8.2 Test System Verification

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

Table 8-2
System Verification Results

System Verification TARGET & MEASURED														Measured 4cm ² APD (W/m ²)	Target 4cm ² APD (W/m ²)	1W Normalized 4cm ² APD (W/m ²)	Deviation 4cm ² APD (%)
SAR System	Tissue Frequency (MHz)	Tissue Type	Date	Amb. Temp. (C)	Liquid Temp. (C)	Input Power (W)	Source SN	Probe SN	DAE	Measured SAR 1g (W/kg)	1W Target SAR 1g (W/kg)	1W Normalized SAR 1g (W/kg)	Deviation 1g (%)				
AM14	13	HEAD	01/02/2024	21.2	20.8	1.00	1004	7360	534	0.574	0.578	0.574	-0.69%				
AM8	2450	HEAD	12/11/2023	20.0	19.5	0.10	750	7421	604	5.340	52.600	53.400	1.52%				
AM8	2450	HEAD	12/13/2023	20.3	19.7	0.10	921	7421	604	5.420	54.200	54.200	0.00%				
AM9	5250	HEAD	12/14/2023	20.4	19.3	0.05	1123	3746	1237	3.740	80.500	74.800	-7.08%				
AM9	5250	HEAD	12/20/2023	19.6	19.1	0.05	1123	3746	1237	3.810	80.500	76.200	-5.34%				
AM9	5600	HEAD	12/14/2023	20.4	19.3	0.05	1123	3746	1237	3.940	83.700	78.800	-5.85%				
AM9	5600	HEAD	12/20/2023	19.6	19.1	0.05	1123	3746	1237	4.400	83.700	88.000	5.14%				
AM9	5750	HEAD	12/14/2023	20.4	19.3	0.05	1123	3746	1237	3.950	80.500	79.000	-1.86%				
AM9	5750	HEAD	12/20/2023	19.6	19.1	0.05	1123	3746	1237	3.820	80.500	76.400	-5.09%				
AM11	6500	HEAD	12/15/2023	21.3	20.3	0.03	1019	7682	1683	7.740	293.000	309.600	5.67%	35.200	1320.000	1408.000	6.67%

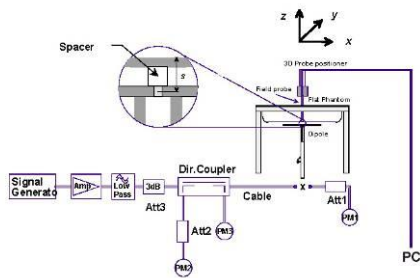


Figure 8-1
System Verification Setup Diagram



Figure 8-2
System Verification Setup Photo

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8.3 Power Density Test System Verification

The system was verified to be within ± 0.66 dB of the power density targets on the calibration certificate according to the test system specification in the user's manual and calibration facility recommendation. The 0.66 dB deviation threshold represents the expanded uncertainty for system performance checks using SPEAG's mmWave verification sources. The same spatial resolution and measurement region used in the source calibration was applied during the system check.

The measured power density distribution of verification source was also confirmed through visual inspection to have no noticeable differences, both spatially (shape) and numerically (level) from the distribution provided by the manufacturer, per November 2017 TCBC Workshop Notes.

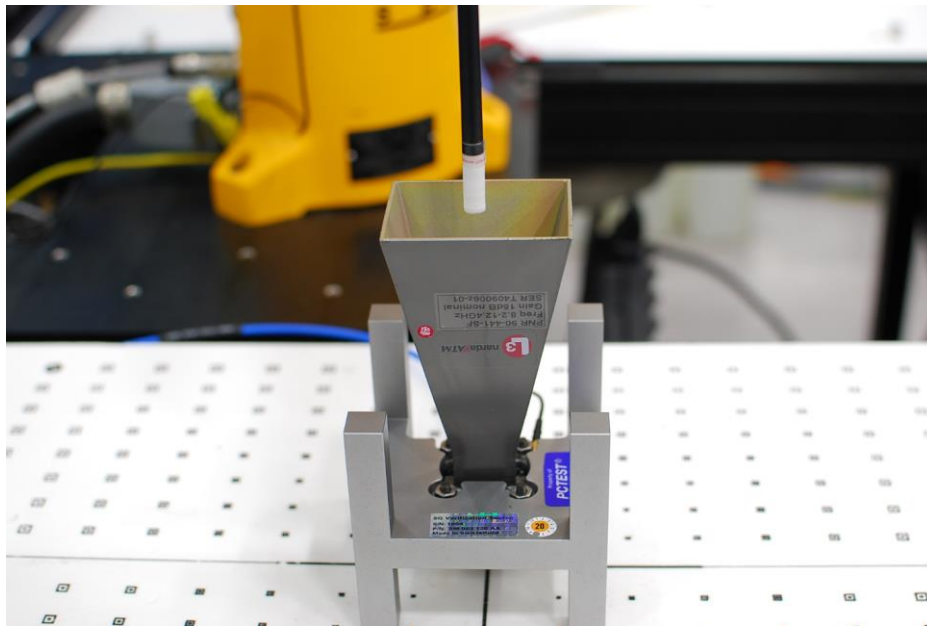


Figure 8-3
System Verification Setup Photo

Table 8-3
10 GHz Verification Results

System Verification											
System	Frequency (GHz)	Date	Source S/N	Probe S/N	Prad (mW)	Normal psPD (W/m ² over 4 cm ²)		Deviation (dB)	Total psPD (W/m ² over 4 cm ²)		Deviation (dB)
						Measured	Target		Measured	Target	
AM5	10	12/11/2023	1006	9523	93.3	51.10	58.50	-0.59	51.10	58.90	-0.62
AM5	10	12/15/2023	1006	9523	93.3	52.40	58.50	-0.48	52.50	58.90	-0.50
AM5	10	12/18/2023	1002	9523	89.1	48.40	52.80	-0.38	48.50	53.10	-0.39
AM5	10	12/20/2023	1002	9523	89.1	49.50	52.80	-0.28	49.60	53.10	-0.30
AM5	10	12/26/2023	1002	9523	89.1	56.30	52.80	0.28	56.40	53.10	0.26
AM5	10	12/28/2023	1002	9523	89.1	52.90	52.80	0.01	53.00	53.10	-0.01
AM5	10	01/27/2024	1002	9407	89.1	53.70	52.80	0.07	53.80	53.10	0.06

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 Standalone SAR Data

Table 9-1
2.4 GHz WLAN Body SAR Data – Ant WF7b

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #
Body	2.4 GHz WiFi/ IEEE 802.11b	22	DSSS	WF7b	QGK1M2P2YH	99.7	0.02	2462	11	1	21.25	20.72	Back	0	V2	0.194	0.098	1.130	1.003	0.220	0.111	
Body	2.4 GHz WiFi/ IEEE 802.11b	22	DSSS	WF7b	QGK1M2P2YH	99.7	0.03	2412	1	1	21.25	20.67	Top	0	V2	0.883	0.398	1.143	1.003	1.012	0.456	
Body	2.4 GHz WiFi/ IEEE 802.11b	22	DSSS	WF7b	QGK1M2P2YH	99.7	-0.01	2437	6	1	21.25	20.69	Top	0	V2	0.950	0.429	1.138	1.003	1.084	0.490	
Body	2.4 GHz WiFi/ IEEE 802.11b	22	DSSS	WF7b	DGCCDIR7DD	99.7	-0.01	2462	11	1	21.25	20.30	Top	0	V1	0.870	0.386	1.245	1.003	1.086	0.482	
Body	2.4 GHz WiFi/ IEEE 802.11b	22	DSSS	WF7b	QGK1M2P2YH	99.7	0.02	2462	11	1	21.25	20.97	Top	0	V2	0.940	0.459	1.130	1.003	1.179	0.520	
Body	2.4 GHz WiFi/ IEEE 802.11b	22	DSSS	WF7b	QGK1M2P2YH	99.7	-0.01	2462	11	1	21.25	20.72	Top	0	V2	1.040	0.461	1.130	1.003	1.179	0.522	A1
Body	2.4 GHz WiFi/ IEEE 802.11b	22	DSSS	WF7b	QGK1M2P2YH	99.7	-0.01	2462	11	1	21.25	20.72	Bottom	0	V2	0.044	0.020	1.130	1.003	0.050	0.023	
Body	2.4 GHz WiFi/ IEEE 802.11b	22	DSSS	WF7b	QGK1M2P2YH	99.7	0.02	2462	11	1	21.25	20.72	Right	0	V2	0.001	0.000	1.130	1.003	0.001	0.000	
Body	2.4 GHz WiFi/ IEEE 802.11b	22	DSSS	WF7b	QGK1M2P2YH	99.7	0.08	2462	11	1	21.25	20.72	Left	0	V2	0.073	0.038	1.130	1.003	0.083	0.043	
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 9-2
2.4 GHz WLAN Body SAR Data – Ant WF2b

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #
Body	2.4 GHz WiFi/ IEEE 802.11b	22	DSSS	WF2b	QGK1M2P2YH	99.7	-0.06	2462	11	1	21.00	20.44	Back	0	V2	0.195	0.100	1.138	1.003	0.223	0.114	
Body	2.4 GHz WiFi/ IEEE 802.11b	22	DSSS	WF2b	QGK1M2P2YH	99.7	0.07	2462	11	1	21.00	20.44	Top	0	V2	0.034	0.015	1.138	1.003	0.039	0.017	
Body	2.4 GHz WiFi/ IEEE 802.11b	22	DSSS	WF2b	QGK1M2P2YH	99.7	0.03	2412	1	1	21.00	20.43	Bottom	0	V2	0.850	0.406	1.140	1.003	0.972	0.464	
Body	2.4 GHz WiFi/ IEEE 802.11b	22	DSSS	WF2b	QGK1M2P2YH	99.7	-0.02	2437	6	1	21.00	20.35	Bottom	0	V2	0.869	0.413	1.161	1.003	1.012	0.481	
Body	2.4 GHz WiFi/ IEEE 802.11b	22	DSSS	WF2b	QGK1M2P2YH	99.7	0.04	2462	11	1	21.00	20.44	Bottom	0	V2	0.902	0.426	1.138	1.003	1.030	0.486	
Body	2.4 GHz WiFi/ IEEE 802.11b	22	DSSS	WF2b	QGK1M2P2YH	99.7	0.00	2412	1	1	21.00	20.43	Right	0	V2	0.860	0.393	1.140	1.003	0.983	0.449	
Body	2.4 GHz WiFi/ IEEE 802.11b	22	DSSS	WF2b	QGK1M2P2YH	99.7	0.01	2437	6	1	21.00	20.35	Right	0	V2	0.913	0.415	1.161	1.003	1.063	0.483	
Body	2.4 GHz WiFi/ IEEE 802.11b	22	DSSS	WF2b	QGK1M2P2YH	99.7	0.05	2462	11	1	21.00	20.44	Right	0	V2	0.977	0.441	1.138	1.003	1.115	0.503	
Body	2.4 GHz WiFi/ IEEE 802.11b	22	DSSS	WF2b	V6K7C4WQ6	99.7	0.00	2462	11	1	21.00	20.40	Right	0	V1	0.870	0.395	1.148	1.003	1.002	0.455	
Body	2.4 GHz WiFi/ IEEE 802.11b	22	DSSS	WF2b	QGK1M2P2YH	99.7	0.03	2462	11	1	21.00	20.44	Left	0	V2	0.012	0.005	1.138	1.003	0.014	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						

Table 9-3
5 GHz WLAN Body SAR Data – Ant WF7a

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NII band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Exposure Ratio (10g SAR)	Plot #
Body	5 GHz WiFi/ IEEE 802.11ac	80	OFDM	WF7a	X06N2R7J0M	95.0	0.13	5290	58	U-NII-2A	29.3	16.50	16.33	Back	0	V2	0.180	0.066	1.040	1.053	0.197	0.072	0.123	0.018	
Body	5 GHz WiFi/ IEEE 802.11ac	80	OFDM	WF7a	X06N2R7J0M	95.0	0.01	5290	58	U-NII-2A	29.3	16.50	16.33	Top	0	V2	0.880	0.327	1.122	1.053	1.183	0.358	0.739	0.090	A2
Body	5 GHz WiFi/ IEEE 802.11ac	80	OFDM	WF7a	QGK1M2P2YH	95.0	-0.09	5290	58	U-NII-2A	29.3	16.50	16.00	Top	0	V1	0.997	0.305	1.227	1.053	1.178	0.360	0.736	0.090	
Body	5 GHz WiFi/ IEEE 802.11ac	80	OFDM	WF7a	X06N2R7J0M	95.0	0.00	5290	58	U-NII-2A	29.3	16.50	16.33	Top	0	V2	0.999	0.305	1.040	1.053	1.178	0.364	0.733	0.090	
Body	5 GHz WiFi/ IEEE 802.11ac	80	OFDM	WF7a	X06N2R7J0M	95.0	0.09	5290	58	U-NII-2A	29.3	16.50	16.33	Bottom	0	V2	0.005	0.000	1.040	1.053	0.005	0.000	0.003	0.000	
Body	5 GHz WiFi/ IEEE 802.11ac	80	OFDM	WF7a	X06N2R7J0M	95.0	0.06	5290	58	U-NII-2A	29.3	16.50	16.33	Right	0	V2	0.000	0.000	1.040	1.053	0.000	0.000	0.000	0.000	
Body	5 GHz WiFi/ IEEE 802.11ac	80	OFDM	WF7a	X06N2R7J0M	95.0	0.08	5290	58	U-NII-2A	29.3	16.50	16.33	Left	0	V2	0.000	0.000	1.040	1.053	0.000	0.000	0.000	0.000	
Body	5 GHz WiFi/ IEEE 802.11ac	80	OFDM	WF7a	VPQ74Y2H4P	95.0	0.02	5610	122	U-NII-2C	29.3	15.25	14.87	Back	0	V1	0.105	0.040	1.091	1.053	0.121	0.046	0.076	0.012	
Body	5 GHz WiFi/ IEEE 802.11ac	80	OFDM	WF7a	VPQ74Y2H4P	95.0	0.01	5530	106	U-NII-2C	29.3	15.50	14.62	Top	0	V1	0.914	0.268	1.091	1.053	1.050	0.308	0.654	0.077	
Body	5 GHz WiFi/ IEEE 802.11ac	80	OFDM	WF7a	GY74CK9XD	95.0	0.02	5610	122	U-NII-2C	29.3	15.25	14.68	Top	0	V2	0.928	0.282	1.140	1.053	1.114	0.339	0.696	0.085	
Body	5 GHz WiFi/ IEEE 802.11ac	80	OFDM	WF7a	VPQ74Y2H4P	95.0	-0.05	5610	122	U-NII-2C	29.3	15.25	14.87	Top	0	V1	0.981	0.296	1.091	1.053	1.127	0.340	0.704	0.085	
Body	5 GHz WiFi/ IEEE 802.11ac	80	OFDM	WF7a	VPQ74Y2H4P	95.0	0.01	5610	122	U-NII-2C	29.3	15.25	14.87	Top	0	V1	0.820	0.247	1.091	1.053	1.109	0.327	0.693	0.082	
Body	5 GHz WiFi/ IEEE 802.11ac	80	OFDM	WF7a	VPQ74Y2H4P	95.0	-0.01	5690	138	U-NII-2C	29.3	15.25	14.50	Top	0	V1	0.820	0.247	1.303	1.053	1.125	0.335	0.703	0.085	
Body	5 GHz WiFi/ IEEE 802.11ac	80	OFDM	WF7a	VPQ74Y2H4P	95.0	0.05	5610	122	U-NII-2C	29.3	15.25	14.87	Bottom	0	V1	0.011	0.003	1.091	1.053	0.013	0.003	0.008	0.001	
Body	5 GHz WiFi/ IEEE 802.11ac	80	OFDM	WF7a	VPQ74Y2H4P	95.0	0.08	5610	122	U-NII-2C	29.3	15.25	14.87	Right	0	V1	0.000	0.000	1.091	1.053	0.000	0.000	0.000	0.000	
Body	5 GHz WiFi/ IEEE 802.11ac	80	OFDM	WF7a	VPQ74Y2H4P	95.0	0.07	5610	122	U-NII-2C	29.3	15.25	14.87	Left	0	V1	0.000	0.000	1.091	1.053	0.000	0.000	0.000	0.000	
Body	5 GHz WiFi/ IEEE 802.11ac	80	OFDM	WF7a	MR7X1SLQW	95.0	0.04	5775	155	U-NII-3	29.3	15.50	13.72	Bottom	0	V2	0.079	0.022	1.507	1.053	0.125	0.035	0.078	0.009	
Body	5 GHz WiFi/ IEEE 802.11ac	80	OFDM	WF7a	MR7X1SLQW	95.0	-0.15	5775	155	U-NII-3	29.3	15.50	13.72	Top	0	V2	0.718	0.223	1.507	1.053	1.139	0.354	0.712	0.089	
Body	5 GHz WiFi/ IEEE 802.11ac	80	OFDM	WF7a	VPQ74Y2H4P	95.0	-0.09	5775	155	U-NII-3	29.3	15.50	13.51	Top	0	V1	0.663	0.205	1.581	1.053	1.100	0.341	0.688	0.085	
Body	5 GHz WiFi/ IEEE 802.11ac	80	OFDM	WF7a	MR7X1SLQW	95.0	0.07	5775	155	U-NII-3	29.3	15.50	13.72	Bottom	0	V2	0.000	0.000	1.507	1.053	0.000	0.000	0.000	0.000	
Body	5 GHz WiFi/ IEEE 802.11ac	80	OFDM	WF7a	MR7X1SLQW	95.0	0.08	5775	155	U-NII-3	29.3	15.50	13.72	Right	0	V2	0.000	0.000	1.507	1.053	0.000	0.000	0.000	0.000	
Body	5 GHz WiFi/ IEEE 802.11ac	80	OFDM	WF7a	MR7X1SLQW	95.0	0.01	5775	155	U-NII-3	29.3	15.50	13.72	Left	0	V2	0.004	0.000	1.507	1.053	0.006	0.000	0.004	0.000	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																Body 1.6 W/kg (mW/g) averaged over 1 gram									
Uncontrolled Exposure/General Population																									

Note: Blue entry represents variability measurement.

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Table 9-4
5 GHz WLAN Body SAR Data – Ant WF7b

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	WF7b	T0333Y70DX	97.7	-0.03	5270	54	U-NII-2A	13.5	19.50	18.20	Back	0	V1	0.054	0.019	1.349	1.024	0.075	0.026	
Body	5 GHz WiFi / IEEE 802.11n	40	OFDM	WF7b	Q06C84RGW	97.7	-0.01	5270	54	U-NII-2A	13.5	19.50	18.45	Top	0	V2	0.456	0.111	1.274	1.024	0.595	0.171	
Body	5 GHz WiFi / IEEE 802.11n	40	OFDM	WF7b	T0333Y70DX	97.7	-0.04	5270	54	U-NII-2A	13.5	19.50	18.20	Top	0	V1	0.481	0.134	1.349	1.024	0.664	0.185	
Body	5 GHz WiFi / IEEE 802.11n	40	OFDM	WF7b	T0333Y70DX	97.7	0.04	5270	54	U-NII-2A	13.5	19.50	18.20	Bottom	0	V1	0.021	0.000	1.349	1.024	0.029	0.000	
Body	5 GHz WiFi / IEEE 802.11n	40	OFDM	WF7b	T0333Y70DX	97.7	0.01	5270	54	U-NII-2A	13.5	19.50	18.20	Right	0	V1	0.000	0.000	1.349	1.024	0.000	0.000	
Body	5 GHz WiFi / IEEE 802.11n	40	OFDM	WF7b	T0333Y70DX	97.7	0.03	5270	54	U-NII-2A	13.5	19.50	18.20	Left	0	V1	0.115	0.034	1.349	1.024	0.159	0.047	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	WF7b	MR7X1L9LQW	95.0	0.02	5610	122	U-NII-2C	29.3	19.00	18.76	Back	0	V2	0.097	0.032	1.057	1.053	0.108	0.036	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	WF7b	MR7X1L9LQW	95.0	-0.07	5530	106	U-NII-2C	29.3	15.00	13.27	Top	0	V2	0.208	0.060	1.489	1.053	0.326	0.094	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	WF7b	MR7X1L9LQW	95.0	0.06	5610	122	U-NII-2C	29.3	19.00	18.76	Top	0	V2	0.858	0.286	1.057	1.053	0.955	0.318	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	WF7b	MR7X1L9LQW	95.0	0.00	5690	138	U-NII-2C	29.3	19.00	18.65	Top	0	V2	0.846	0.279	1.084	1.053	0.966	0.318	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	WF7b	M0Y6G343VC	95.0	0.06	5690	138	U-NII-2C	29.3	19.00	18.46	Top	0	V1	0.672	0.208	1.132	1.053	0.801	0.248	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	WF7b	MR7X1L9LQW	95.0	0.06	5610	122	U-NII-2C	29.3	19.00	18.76	Bottom	0	V2	0.017	0.002	1.057	1.053	0.019	0.002	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	WF7b	MR7X1L9LQW	95.0	0.07	5610	122	U-NII-2C	29.3	19.00	18.76	Right	0	V2	0.012	0.000	1.057	1.053	0.013	0.000	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	WF7b	MR7X1L9LQW	95.0	0.05	5610	122	U-NII-2C	29.3	19.00	18.76	Left	0	V2	0.174	0.053	1.057	1.053	0.194	0.059	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	WF7b	T0333Y70DX	95.0	-0.04	5775	155	U-NII-3	29.3	18.00	16.56	Back	0	V1	0.054	0.019	1.393	1.053	0.079	0.028	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	WF7b	MR7X1L9LQW	95.0	-0.04	5775	155	U-NII-3	29.3	18.00	16.75	Top	0	V2	0.764	0.213	1.334	1.053	1.073	0.299	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	WF7b	T0333Y70DX	95.0	-0.01	5775	155	U-NII-3	29.3	18.00	16.56	Top	0	V1	0.788	0.239	1.393	1.053	1.156	0.351	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	WF7b	T0333Y70DX	95.0	0.01	5775	155	U-NII-3	29.3	18.00	16.56	Bottom	0	V1	0.008	0.000	1.393	1.053	0.012	0.000	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	WF7b	T0333Y70DX	95.0	0.09	5775	155	U-NII-3	29.3	18.00	16.56	Right	0	V1	0.006	0.001	1.393	1.053	0.009	0.001	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	WF7b	T0333Y70DX	95.0	0.06	5775	155	U-NII-3	29.3	18.00	16.56	Left	0	V1	0.090	0.025	1.393	1.053	0.132	0.037	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																	Body 1.6 W/kg (mW/g) averaged over 1 gram						
Uncontrolled Exposure/General Population																							

Table 9-5
5 GHz WLAN Body SAR Data – Ant WF2a

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	WF2a	VMC236QV6G	97.7	0.07	5270	54	U-NII-2A	13.5	17.50	16.53	Back	0	V2	0.100	0.036	1.250	1.024	0.128	0.046	
Body	5 GHz WiFi / IEEE 802.11n	40	OFDM	WF2a	VMC236QV6G	97.7	0.06	5270	54	U-NII-2A	13.5	17.50	16.53	Top	0	V2	0.007	0.000	1.250	1.024	0.009	0.000	
Body	5 GHz WiFi / IEEE 802.11n	40	OFDM	WF2a	VMC236QV6G	97.7	-0.15	5270	54	U-NII-2A	13.5	17.50	16.53	Bottom	0	V2	0.792	0.224	1.250	1.024	1.014	0.287	
Body	5 GHz WiFi / IEEE 802.11n	40	OFDM	WF2a	VMC236QV6G	97.7	-0.04	5310	62	U-NII-2A	13.5	17.50	16.42	Bottom	0	V2	0.838	0.243	1.282	1.024	1.100	0.319	
Body	5 GHz WiFi / IEEE 802.11n	40	OFDM	WF2a	T0333Y70DX	97.7	0.03	5310	62	U-NII-2A	13.5	17.50	16.44	Bottom	0	V1	0.764	0.220	1.276	1.024	0.998	0.287	
Body	5 GHz WiFi / IEEE 802.11n	40	OFDM	WF2a	VMC236QV6G	97.7	0.06	5270	54	U-NII-2A	13.5	17.50	16.53	Right	0	V2	0.060	0.018	1.250	1.024	0.077	0.023	
Body	5 GHz WiFi / IEEE 802.11n	40	OFDM	WF2a	VMC236QV6G	97.7	0.09	5270	54	U-NII-2A	13.5	17.50	16.53	Left	0	V2	0.000	0.000	1.250	1.024	0.000	0.000	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	WF2a	VMC236QV6G	95.0	0.06	5610	122	U-NII-2C	29.3	15.00	14.83	Back	0	V2	0.103	0.033	1.040	1.053	0.113	0.036	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	WF2a	VMC236QV6G	95.0	0.01	5610	122	U-NII-2C	29.3	15.00	14.83	Top	0	V2	0.001	0.000	1.040	1.053	0.001	0.000	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	WF2a	VMC236QV6G	95.0	-0.04	5530	106	U-NII-2C	29.3	15.00	14.72	Bottom	0	V2	0.789	0.239	1.067	1.053	0.886	0.269	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	WF2a	VMC236QV6G	95.0	0.02	5610	122	U-NII-2C	29.3	15.00	14.83	Bottom	0	V2	0.864	0.275	1.040	1.053	0.946	0.301	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	WF2a	VMC236QV6G	95.0	-0.03	5690	138	U-NII-2C	29.3	15.00	14.60	Bottom	0	V2	0.925	0.298	1.096	1.053	1.068	0.344	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	WF2a	T0333Y70DX	95.0	-0.12	5690	138	U-NII-2C	29.3	15.00	14.61	Bottom	0	V1	0.801	0.255	1.094	1.053	0.923	0.294	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	WF2a	VMC236QV6G	95.0	-0.15	5690	138	U-NII-2C	29.3	15.00	14.65	Bottom	0	V2	0.895	0.284	1.096	1.053	0.997	0.316	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	WF2a	VMC236QV6G	95.0	-0.10	5610	122	U-NII-2C	29.3	15.00	14.83	Right	0	V2	0.099	0.033	1.040	1.053	0.108	0.036	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	WF2a	VMC236QV6G	95.0	0.01	5610	122	U-NII-2C	29.3	15.00	14.83	Left	0	V2	0.011	0.000	1.040	1.053	0.012	0.000	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	WF2a	VMC236QV6G	95.0	0.07	5775	155	U-NII-3	29.3	14.00	13.70	Back	0	V2	0.088	0.028	1.072	1.053	0.099	0.032	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	WF2a	VMC236QV6G	95.0	0.03	5775	155	U-NII-3	29.3	14.00	13.70	Top	0	V2	0.000	0.000	1.072	1.053	0.000	0.000	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	WF2a	VMC236QV6G	95.0	-0.10	5775	155	U-NII-3	29.3	14.00	13.70	Bottom	0	V2	0.923	0.285	1.072	1.053	1.042	0.322	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	WF2a	T0333Y70DX	95.0	-0.18	5775	155	U-NII-3	29.3	14.00	13.99	Bottom	0	V1	0.831	0.256	1.062	1.053	0.877	0.270	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	WF2a	VMC236QV6G	95.0	-0.19	5775	155	U-NII-3	29.3	14.00	13.70	Right	0	V2	0.095	0.030	1.072	1.053	0.107	0.034	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	WF2a	VMC236QV6G	95.0	0.07	5775	155	U-NII-3	29.3	14.00	13.70	Left	0	V2	0.009	0.000	1.072	1.053	0.010	0.000	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																	Body 1.6 W/kg (mW/g) averaged over 1 gram						
Spatial Peak Uncontrolled Exposure/General Population																							

Note: Blue entry represents variability measurement.

Table 9-6
6 GHz WLAN Body SAR Data – Ant WF7a

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF7a	W75G607LX7	97.7	0.06	6025	15	68.1	14.25	12.30	Back	0	V2	0.077	0.027	1.567	1.024	0.124	0.043	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF7a	W75G607LX7	97.7	-0.17	6345	79	68.1	14.50	12.61	Back	0	V1	0.081	0.029	1.545	1.024	0.128	0.046	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF7a	W75G607LX7	97.7	0.13	6025	15	68.1	14.25	12.30	Top	0	V2	0.640	0.207	1.567	1.024	1.027	0.332	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF7a	W75G607LX7	97.7	0.03	6345	79	68.1	14.50	12.61	Top	0	V2	0.636	0.198	1.545	1.024	1.006	0.313	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF7a	W75G607LX7	97.7	-0.03	6505	111	68.1	13.50	11.70	Top	0	V2	0.736	0.223	1.514	1.024	1.141	0.346	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF7a	V6K7CAWQ6G	97.7	0.01	6505	111	68.1	13.50	11.51	Top	0	V1	0.728	0.226	1.581	1.024	1.179	0.366	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF7a	W75G607LX7	97.7	-0.01	6665	143	68.1	14.25	12.53	Top	0	V2	0.751	0.220	1.486	1.024	1.143	0.335	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF7a	W75G607LX7	97.7	-0.12	6985	207	68.1	13.25	12.05	Top	0	V2	0.860	0.237	1.318	1.024	1.161	0.320	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF7a	V6K7CAWQ6G	97.7	0.07	6985	207	68.1	13.25	11.59	Top	0	V1	0.725	0.202	1.466	1.024	1.090	0.303	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF7a	W75G607LX7	97.7	0.01	6025	15	68.1	14.25	12.30	Bottom	0	V2	0.000	0.000	1.567	1.024	0.000	0.000	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF7a	W75G607LX7	97.7	0.04	6345	79	68.1	14.50	12.61	Bottom	0	V2	0.002	0.000	1.545	1.024	0.003	0.000	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF7a	W75G607LX7	97.7	0.01	6025	15	68.1	14.25	12.30	Right	0	V2	0.000	0.000	1.567	1.024	0.000	0.000	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF7a	W75G607LX7	97.7	0.03	6345	79	68.1	14.50	12.61	Right	0	V2	0.000	0.000	1.545	1.024	0.000	0.000	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF7a	W75G607LX7	97.7	0.01	6025	15	68.1	14.25	12.30	Left	0	V2	0.000	0.000	1.567	1.024	0.000	0.000	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF7a	W75G607LX7	97.7	0.06	6345	79	68.1	14.50	12.61	Left	0	V2	0.000	0.000	1.545	1.024	0.000	0.000	
ANSI/IEEE C55.1.1992 - SAFETY LIMIT																1.6 W/kg (mW/g)						
Uncontrolled Exposure / General Population																averaged over 16mm						

Table 9-7
6 GHz WLAN Body SAR Data – Ant WF7b

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF7b	W75G607LK7	97.7	0.03	6025	15	68.1	17.75	16.25	Back	0	V2	0.084	0.029	1.413	1.024	0.122	0.042	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF7b	W75G607LK7	97.7	0.04	6665	143	68.1	18.00	16.31	Back	0	V2	0.055	0.020	1.476	1.024	0.083	0.030	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF7b	W75G607LK7	97.7	-0.08	6025	15	68.1	17.75	16.25	Top	0	V2	0.768	0.226	1.413	1.024	1.111	0.327	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF7b	XMAIQL20Y7	97.7	0.03	6025	15	68.1	17.75	16.18	Top	0	V1	0.700	0.213	1.435	1.024	1.029	0.313	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF7b	W75G607LK7	97.7	0.03	6345	79	68.1	17.25	16.55	Top	0	V2	0.861	0.264	1.175	1.024	1.036	0.318	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF7b	W75G607LK7	97.7	-0.02	6505	111	68.1	14.25	13.65	Top	0	V2	0.454	0.139	1.148	1.023	0.533	0.163	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF7b	W75G607LK7	97.7	0.02	6665	143	68.1	18.00	16.31	Top	0	V2	0.738	0.186	1.476	1.024	1.115	0.281	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF7b	XMAIQL20Y7	97.7	-0.12	6665	143	68.1	18.00	16.15	Top	0	V1	0.752	0.199	1.531	1.024	1.179	0.312	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF7b	W75G607LK7	97.7	0.02	6985	207	68.1	16.00	15.02	Top	0	V2	0.623	0.175	1.253	1.024	0.799	0.225	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF7b	W75G607LK7	97.7	0.04	6025	15	68.1	17.75	16.25	Bottom	0	V2	0.000	0.000	1.413	1.024	0.000	0.000	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF7b	W75G607LK7	97.7	0.05	6665	143	68.1	18.00	16.31	Bottom	0	V2	0.027	0.008	1.476	1.024	0.041	0.012	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF7b	W75G607LK7	97.7	0.07	6025	15	68.1	17.75	16.25	Right	0	V2	0.000	0.000	1.413	1.024	0.000	0.000	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF7b	W75G607LK7	97.7	0.03	6665	143	68.1	18.00	16.31	Right	0	V2	0.004	0.000	1.476	1.024	0.006	0.000	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF7b	W75G607LK7	97.7	0.08	6025	15	68.1	17.75	16.25	Left	0	V2	0.109	0.033	1.413	1.024	0.158	0.048	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WF7b	W75G607LK7	97.7	0.01	6665	143	68.1	18.00	16.31	Left	0	V2	0.050	0.012	1.476	1.024	0.076	0.018	
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 9-8
6 GHz WLAN Body SAR Data – Ant WF2a

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [W/kg]	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	WF2a	VMC236QV6G	97.7	-0.12	6025	15	68.1	14.00	13.29	Back	0	V2	0.093	0.034	1.178	1.023	0.112	0.041	
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	WF2a	VMC236QV6G	97.7	0.05	6345	79	68.1	14.00	13.55	Back	0	V2	0.080	0.028	1.109	1.023	0.091	0.032	
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	WF2a	VMC236QV6G	97.7	0.09	6025	15	68.1	14.00	13.29	Top	0	V2	0.000	0.000	1.178	1.023	0.000	0.000	
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	WF2a	VMC236QV6G	97.7	0.01	6345	79	68.1	14.00	13.55	Top	0	V2	0.004	0.002	1.109	1.023	0.005	0.002	
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	WF2a	VMC236QV6G	97.7	-0.08	6025	15	68.1	14.00	13.29	Bottom	0	V2	0.950	0.288	1.178	1.023	1.145	0.347	
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	WF2a	VPQ74Y2HAP	97.7	0.13	6025	15	68.1	14.00	13.17	Bottom	0	V1	0.942	0.284	1.211	1.023	1.167	0.352	
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	WF2a	VMC236QV6G	97.7	0.04	6345	79	68.1	14.00	13.55	Bottom	0	V2	0.982	0.277	1.109	1.023	1.114	0.314	
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	WF2a	VMC236QV6G	97.7	-0.08	6505	111	68.1	13.25	12.93	Bottom	0	V2	1.030	0.281	1.076	1.023	1.134	0.309	
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	WF2a	VMC236QV6G	97.7	0.09	6665	143	68.1	13.25	12.98	Bottom	0	V2	1.050	0.273	1.064	1.023	1.143	0.297	
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	WF2a	VMC236QV6G	97.7	-0.12	6985	207	68.1	12.50	12.35	Bottom	0	V2	1.070	0.272	1.035	1.023	1.133	0.288	A3
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	WF2a	VMC236QV6G	97.7	0.01	6985	207	68.1	12.50	12.35	Bottom	0	V2	0.000	0.000	1.035	1.023	0.000	0.000	
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	WF2a	VMC236QV6G	97.7	0.06	6025	15	68.1	14.00	13.29	Right	0	V2	0.042	0.014	1.178	1.023	0.051	0.017	
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	WF2a	VMC236QV6G	97.7	0.06	6345	79	68.1	14.00	13.55	Right	0	V2	0.039	0.012	1.109	1.023	0.044	0.014	
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	WF2a	VMC236QV6G	97.7	0.07	6025	15	68.1	14.00	13.29	Left	0	V2	0.000	0.000	1.178	1.023	0.000	0.000	
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	WF2a	VMC236QV6G	97.7	-0.09	6345	79	68.1	14.00	13.55	Left	0	V2	0.000	0.000	1.109	1.023	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.

Table 9-9
6 GHz WLAN Body Absorbed Power Density Data – Ant WF7a

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Add'l Info	Measured APD [W/m² (4cm²)]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported APD [W/m² (4cm²)]	Plot #
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	WF7a	W75G607LK7	97.7	0.06	6025	15	68.1	14.25	12.30	Back	0	V2	0.610	1.567	1.024	0.979	
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	WF7a	W75G607LK7	97.7	-0.17	6345	79	68.1	14.50	12.61	Back	0	V2	0.657	1.545	1.024	1.039	
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	WF7a	W75G607LK7	97.7	0.13	6025	15	68.1	14.25	12.30	Top	0	V2	4.730	1.567	1.024	7.574	
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	WF7a	W75G607LK7	97.7	0.03	6345	79	68.1	14.50	12.61	Top	0	V2	4.540	1.545	1.024	7.183	
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	WF7a	W75G607LK7	97.7	-0.03	6505	111	68.1	13.50	11.70	Top	0	V2	5.140	1.514	1.024	7.969	
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	WF7a	V6IK7C4WQG	97.7	0.01	6505	111	68.1	13.50	11.51	Top	0	V1	5.180	1.581	1.024	8.886	
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	WF7a	W75G607LK7	97.7	-0.01	6665	143	68.1	14.25	12.53	Top	0	V2	5.070	1.486	1.024	7.715	
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	WF7a	W75G607LK7	97.7	-0.12	6985	207	68.1	13.25	12.05	Top	0	V2	5.500	1.318	1.024	7.423	
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	WF7a	V6IK7C4WQG	97.7	-0.06	6985	207	68.1	13.25	11.59	Top	0	V1	4.700	1.466	1.024	7.056	
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	WF7a	W75G607LK7	97.7	0.01	6025	15	68.1	14.25	12.30	Bottom	0	V2	0.000	1.567	1.024	0.000	
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	WF7a	W75G607LK7	97.7	0.04	6345	79	68.1	14.50	12.61	Bottom	0	V2	0.012	1.545	1.024	0.019	
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	WF7a	W75G607LK7	97.7	0.01	6025	15	68.1	14.25	12.30	Right	0	V2	0.000	1.567	1.024	0.000	
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	WF7a	W75G607LK7	97.7	0.03	6345	79	68.1	14.50	12.61	Right	0	V2	0.000	1.545	1.024	0.000	
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	WF7a	W75G607LK7	97.7	0.01	6025	15	68.1	14.25	12.30	Left	0	V2	0.000	1.567	1.024	0.000	
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	WF7a	W75G607LK7	97.7	0.06	6345	79	68.1	14.50	12.61	Left	0	V2	0.000	1.545	1.024	0.000	

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Table 9-10
6 GHz WLAN Body Absorbed Power Density Data – Ant WF7b

Exposure	Band/ Mode	Bandwidth [MHz]	Service/ Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Add'l Info	Measured APD [W/m ² (4cm ²)]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported APD [W/m ² (4cm ²)]	Plot #
Body	6 GHz WIF/ IEEE 802.11ax	160	OFDM	WF7b	W75G607LX7	97.7	0.03	6025	15	68.1	17.75	16.25	Back	0	V2	0.648	1.413	1.024	0.938	
Body	6 GHz WIF/ IEEE 802.11ax	160	OFDM	WF7b	W75G607LX7	97.7	0.04	6665	143	68.1	18.00	16.31	Back	0	V2	0.448	1.476	1.024	0.677	
Body	6 GHz WIF/ IEEE 802.11ax	160	OFDM	WF7b	W75G607LX7	97.7	-0.08	6025	15	68.1	17.75	16.25	Top	0	V2	5.230	1.413	1.024	7.567	
Body	6 GHz WIF/ IEEE 802.11ax	160	OFDM	WF7b	XM4IQ120Y7	97.7	0.03	6025	15	68.1	17.75	16.18	Top	0	V1	4.920	1.435	1.024	7.230	
Body	6 GHz WIF/ IEEE 802.11ax	160	OFDM	WF7b	W75G607LX7	97.7	0.03	6345	79	68.1	17.25	16.55	Top	0	V2	6.020	1.175	1.024	7.243	
Body	6 GHz WIF/ IEEE 802.11ax	160	OFDM	WF7b	W75G607LX7	97.7	-0.02	6505	111	68.1	14.25	13.65	Top	0	V2	3.170	1.148	1.023	3.723	
Body	6 GHz WIF/ IEEE 802.11ax	160	OFDM	WF7b	W75G607LX7	97.7	0.02	6665	143	68.1	18.00	16.31	Top	0	V2	4.380	1.476	1.024	6.620	
Body	6 GHz WIF/ IEEE 802.11ax	160	OFDM	WF7b	XM4IQ120Y7	97.7	-0.12	6665	143	68.1	18.00	16.15	Top	0	V1	4.660	1.531	1.024	7.306	
Body	6 GHz WIF/ IEEE 802.11ax	160	OFDM	WF7b	W75G607LX7	97.7	0.02	6985	207	68.1	16.00	15.02	Top	0	V2	4.050	1.253	1.024	5.196	
Body	6 GHz WIF/ IEEE 802.11ax	160	OFDM	WF7b	W75G607LX7	97.7	0.04	6025	15	68.1	17.75	16.25	Bottom	0	V2	0.000	1.413	1.024	0.000	
Body	6 GHz WIF/ IEEE 802.11ax	160	OFDM	WF7b	W75G607LX7	97.7	0.05	6665	143	68.1	18.00	16.31	Bottom	0	V2	0.188	1.476	1.024	0.284	
Body	6 GHz WIF/ IEEE 802.11ax	160	OFDM	WF7b	W75G607LX7	97.7	0.07	6025	15	68.1	17.75	16.25	Right	0	V2	0.004	1.413	1.024	0.006	
Body	6 GHz WIF/ IEEE 802.11ax	160	OFDM	WF7b	W75G607LX7	97.7	0.03	6665	143	68.1	18.00	16.31	Right	0	V2	0.020	1.476	1.024	0.030	
Body	6 GHz WIF/ IEEE 802.11ax	160	OFDM	WF7b	W75G607LX7	97.7	0.08	6025	15	68.1	17.75	16.25	Left	0	V2	0.754	1.413	1.024	1.091	
Body	6 GHz WIF/ IEEE 802.11ax	160	OFDM	WF7b	W75G607LX7	97.7	0.01	6665	143	68.1	18.00	16.31	Left	0	V2	0.288	1.476	1.024	0.435	

Table 9-11
6 GHz WLAN Body Absorbed Power Density Data – Ant WF2a

Exposure	Band/ Mode	Bandwidth [MHz]	Service/ Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Add'l Info	Measured APD [W/m ² (4cm ²)]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported APD [W/m ² (4cm ²)]	Plot #
Body	6 GHz WIF/ IEEE 802.11ax	160	OFDM	WF2a	VMC236QV6G	97.7	-0.12	6025	15	68.1	14.00	13.29	Back	0	V2	0.766	1.178	1.023	0.923	
Body	6 GHz WIF/ IEEE 802.11ax	160	OFDM	WF2a	VMC236QV6G	97.7	0.05	6345	79	68.1	14.00	13.55	Back	0	V2	0.628	1.109	1.023	0.712	
Body	6 GHz WIF/ IEEE 802.11ax	160	OFDM	WF2a	VMC236QV6G	97.7	0.09	6025	15	68.1	14.00	13.29	Top	0	V2	0.001	1.178	1.023	0.001	
Body	6 GHz WIF/ IEEE 802.11ax	160	OFDM	WF2a	VMC236QV6G	97.7	0.01	6345	79	68.1	14.00	13.55	Top	0	V2	0.044	1.109	1.023	0.050	
Body	6 GHz WIF/ IEEE 802.11ax	160	OFDM	WF2a	VMC236QV6G	97.7	-0.08	6025	15	68.1	14.00	13.29	Bottom	0	V2	6.620	1.178	1.023	7.978	
Body	6 GHz WIF/ IEEE 802.11ax	160	OFDM	WF2a	VPQ74Y2H4P	97.7	0.13	6025	15	68.1	14.00	13.17	Bottom	0	V1	6.520	1.211	1.023	8.077	
Body	6 GHz WIF/ IEEE 802.11ax	160	OFDM	WF2a	VMC236QV6G	97.7	0.04	6345	79	68.1	14.00	13.55	Bottom	0	V2	6.410	1.109	1.023	7.272	
Body	6 GHz WIF/ IEEE 802.11ax	160	OFDM	WF2a	VMC236QV6G	97.7	-0.08	6505	111	68.1	13.25	12.93	Bottom	0	V2	6.530	1.076	1.023	7.188	
Body	6 GHz WIF/ IEEE 802.11ax	160	OFDM	WF2a	VMC236QV6G	97.7	0.09	6665	143	68.1	13.25	12.98	Bottom	0	V2	6.400	1.064	1.023	6.966	
Body	6 GHz WIF/ IEEE 802.11ax	160	OFDM	WF2a	VMC236QV6G	97.7	-0.12	6985	207	68.1	12.50	12.35	Bottom	0	V2	6.370	1.035	1.023	6.745	A3
Body	6 GHz WIF/ IEEE 802.11ax	160	OFDM	WF2a	VMC236QV6G	97.7	0.01	6985	207	68.1	12.50	12.35	Bottom	0	V2	6.100	1.035	1.023	6.459	
Body	6 GHz WIF/ IEEE 802.11ax	160	OFDM	WF2a	VMC236QV6G	97.7	0.06	6025	15	68.1	14.00	13.29	Right	0	V2	0.321	1.178	1.023	0.387	
Body	6 GHz WIF/ IEEE 802.11ax	160	OFDM	WF2a	VMC236QV6G	97.7	0.06	6345	79	68.1	14.00	13.55	Right	0	V2	0.285	1.109	1.023	0.323	
Body	6 GHz WIF/ IEEE 802.11ax	160	OFDM	WF2a	VMC236QV6G	97.7	0.07	6025	15	68.1	14.00	13.29	Left	0	V2	0.002	1.178	1.023	0.002	
Body	6 GHz WIF/ IEEE 802.11ax	160	OFDM	WF2a	VMC236QV6G	97.7	-0.09	6345	79	68.1	14.00	13.55	Left	0	V2	0.004	1.109	1.023	0.005	

Table 9-12
Bluetooth Body SAR Data – Ant WF7b

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Exposure Ratio (10g SAR)	Plot #
Body	2.4 GHz Bluetooth	FHSS	WF7b	QGX1M2P2YH	77.0	0.09	2480	78	1	20.00	19.00	Back	0	V2	0.155	0.074	1.259	1.006	0.196	0.094	0.123	0.024	
Body	2.4 GHz Bluetooth	FHSS	WF7b	QGX1M2P2YH	77.0	-0.19	2402	0	1	20.00	18.97	Top	0	V2	0.611	0.282	1.268	1.006	0.780	0.360	0.488	0.090	
Body	2.4 GHz Bluetooth	FHSS	WF7b	QGX1M2P2YH	77.0	0.15	2441	39	1	20.00	18.80	Top	0	V2	0.719	0.321	1.318	1.006	0.954	0.426	0.596	0.107	
Body	2.4 GHz Bluetooth	FHSS	WF7b	QGX1M2P2YH	77.0	0.03	2480	78	1	20.00	19.00	Top	0	V2	0.927	0.391	1.259	1.006	1.175	0.495	0.734	0.124	A4
Body	2.4 GHz Bluetooth	FHSS	WF7b	V6K7C4WQ3G	77.0	-0.02	2480	78	1	20.00	18.83	Top	0	V1	0.806	0.345	1.309	1.006	1.062	0.455	0.664	0.114	
Body	2.4 GHz Bluetooth	FHSS	WF7b	QGX1M2P2YH	77.0	0.05	2480	78	1	20.00	19.00	Bottom	0	V2	0.020	0.008	1.259	1.006	0.025	0.010	0.016	0.003	
Body	2.4 GHz Bluetooth	FHSS	WF7b	QGX1M2P2YH	77.0	0.03	2480	78	1	20.00	19.00	Right	0	V2	0.010	0.008	1.259	1.006	0.013	0.010	0.008	0.003	
Body	2.4 GHz Bluetooth	FHSS	WF7b	QGX1M2P2YH	77.0	-0.03	2480	78	1	20.00	19.00	Left	0	V2	0.051	0.024	1.259	1.006	0.065	0.030	0.041	0.008	
Body	2.4 GHz Bluetooth	FHSS	WF7b	QGX1M2P2YH	77.0	0.04	2402	0	1	13.00	12.71	Back	0	V2	0.020	0.010	1.069	1.006	0.022	0.011	0.014	0.003	
Body	2.4 GHz Bluetooth	FHSS	WF7b	QGX1M2P2YH	77.0	-0.03	2402	0	1	13.00	12.71	Top	0	V2	0.089	0.039	1.069	1.006	0.096	0.042	0.060	0.011	
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 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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Table 9-13
Bluetooth Body SAR Data – Ant WF2b

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Exposure Ratio (10g SAR)	Plot #
Body	2.4 GHz Bluetooth	FHSS	WF2b	QGX1M2P2YH	77.0	-0.14	2441	39	1	20.00	19.21	Back	0	V2	0.145	0.075	1.199	1.006	0.175	0.091	0.109	0.023	
Body	2.4 GHz Bluetooth	FHSS	WF2b	QGX1M2P2YH	77.0	0.02	2441	39	1	20.00	19.21	Top	0	V2	0.010	0.005	1.199	1.006	0.012	0.006	0.008	0.002	
Body	2.4 GHz Bluetooth	FHSS	WF2b	QGX1M2P2YH	77.0	-0.04	2402	0	1	20.00	19.19	Bottom	0	V2	0.630	0.297	1.205	1.006	0.752	0.360	0.470	0.090	
Body	2.4 GHz Bluetooth	FHSS	WF2b	QGX1M2P2YH	77.0	0.00	2441	39	1	20.00	19.21	Bottom	0	V2	0.664	0.313	1.199	1.006	0.801	0.378	0.501	0.095	
Body	2.4 GHz Bluetooth	FHSS	WF2b	QGX1M2P2YH	77.0	-0.04	2480	78	1	20.00	19.12	Bottom	0	V2	0.651	0.303	1.225	1.006	0.803	0.374	0.502	0.094	
Body	2.4 GHz Bluetooth	FHSS	WF2b	QGX1M2P2YH	77.0	-0.02	2402	0	1	20.00	19.19	Right	0	V2	0.649	0.294	1.205	1.006	0.787	0.357	0.492	0.089	
Body	2.4 GHz Bluetooth	FHSS	WF2b	QGX1M2P2YH	77.0	-0.03	2441	39	1	20.00	19.21	Right	0	V2	0.670	0.305	1.199	1.006	0.809	0.368	0.506	0.092	
Body	2.4 GHz Bluetooth	FHSS	WF2b	QGX1M2P2YH	77.0	-0.04	2480	78	1	20.00	19.12	Right	0	V2	0.691	0.310	1.225	1.006	0.852	0.382	0.533	0.096	
Body	2.4 GHz Bluetooth	FHSS	WF2b	V6JK7C4WQG	77.0	-0.02	2480	78	1	20.00	19.05	Right	0	V1	0.674	0.303	1.245	1.006	0.845	0.390	0.528	0.095	
Body	2.4 GHz Bluetooth	FHSS	WF2b	QGX1M2P2YH	77.0	0.06	2441	39	1	20.00	19.21	Left	0	V2	0.007	0.003	1.199	1.006	0.008	0.004	0.005	0.001	
Body	2.4 GHz Bluetooth	FHSS	WF2b	QGX1M2P2YH	77.0	0.05	2402	0	1	13.00	12.38	Back	0	V2	0.017	0.010	1.153	1.006	0.020	0.012	0.013	0.003	
Body	2.4 GHz Bluetooth	FHSS	WF2b	QGX1M2P2YH	77.0	-0.01	2402	0	1	13.00	12.38	Bottom	0	V2	0.086	0.039	1.153	1.006	0.100	0.045	0.063	0.011	
Body	2.4 GHz Bluetooth	FHSS	WF2b	QGX1M2P2YH	77.0	0.04	2402	0	1	13.00	12.38	Right	0	V2	0.087	0.039	1.153	1.006	0.101	0.045	0.063	0.011	
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 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
802.15.4 Body SAR Data – Ant WF7b

Exposure	Band / Mode	Ant.	Serial Number	Power Drift [dB]	Frequency [MHz]	Channel #	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	WF7b	V6JK7C4WQG	0.06	2440	18	21.00	19.44	Back	0	V1	0.183	0.090	1.432	0.157	0.077	
Body	802.15.4	WF7b	V6JK7C4WQG	-0.01	2405	11	21.00	19.25	Top	0	V1	0.694	0.316	1.496	0.623	0.284	
Body	802.15.4	WF7b	V6JK7C4WQG	-0.07	2440	18	21.00	19.44	Top	0	V1	0.775	0.347	1.432	0.666	0.298	
Body	802.15.4	WF7b	QGX1M2P2YH	0.03	2475	25	21.00	19.31	Top	0	V2	0.778	0.341	1.476	0.689	0.302	
Body	802.15.4	WF7b	V6JK7C4WQG	0.00	2475	25	21.00	19.38	Top	0	V1	0.798	0.345	1.452	0.695	0.301	AS
Body	802.15.4	WF7b	V6JK7C4WQG	0.03	2440	18	21.00	19.44	Bottom	0	V1	0.015	0.006	1.432	0.013	0.005	
Body	802.15.4	WF7b	V6JK7C4WQG	0.02	2440	18	21.00	19.44	Right	0	V1	0.000	0.000	1.432	0.000	0.000	
Body	802.15.4	WF7b	V6JK7C4WQG	0.02	2440	18	21.00	19.44	Left	0	V1	0.078	0.038	1.432	0.067	0.033	
Body	802.15.4	WF7b	V6JK7C4WQG	0.07	2405	11	15.50	14.58	Back	0	V1	0.038	0.018	1.236	0.028	0.013	
Body	802.15.4	WF7b	V6JK7C4WQG	0.00	2405	11	15.50	14.58	Top	0	V1	0.209	0.093	1.236	0.155	0.069	
Body	802.15.4	WF7b	V6JK7C4WQG	0.08	2405	11	15.50	14.58	Left	0	V1	0.018	0.008	1.236	0.013	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: 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 9-15
802.15.4 Body SAR Data – Ant WF2b

Exposure	Band / Mode	Ant.	Serial Number	Power Drift [dB]	Frequency [MHz]	Channel #	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	WF2b	QGX1M2P2YH	0.05	2475	25	21.00	19.58	Back	0	V2	0.213	0.104	1.387	0.177	0.087	
Body	802.15.4	WF2b	QGX1M2P2YH	-0.01	2475	25	21.00	19.58	Top	0	V2	0.027	0.011	1.387	0.022	0.009	
Body	802.15.4	WF2b	QGX1M2P2YH	-0.02	2405	11	21.00	19.28	Bottom	0	V2	0.678	0.324	1.486	0.605	0.289	
Body	802.15.4	WF2b	QGX1M2P2YH	-0.03	2440	18	21.00	19.55	Bottom	0	V2	0.630	0.298	1.396	0.528	0.250	
Body	802.15.4	WF2b	QGX1M2P2YH	0.02	2475	25	21.00	19.58	Bottom	0	V2	0.559	0.265	1.387	0.465	0.221	
Body	802.15.4	WF2b	QGX1M2P2YH	0.17	2405	11	21.00	19.28	Right	0	V2	0.767	0.351	1.486	0.684	0.313	
Body	802.15.4	WF2b	V6JK7C4WQG	-0.04	2405	11	21.00	19.32	Right	0	V1	0.653	0.299	1.472	0.577	0.264	
Body	802.15.4	WF2b	QGX1M2P2YH	-0.02	2440	18	21.00	19.55	Right	0	V2	0.681	0.306	1.396	0.570	0.256	
Body	802.15.4	WF2b	QGX1M2P2YH	-0.03	2475	25	21.00	19.58	Right	0	V2	0.618	0.279	1.387	0.514	0.232	
Body	802.15.4	WF2b	QGX1M2P2YH	0.03	2475	25	21.00	19.58	Left	0	V2	0.017	0.006	1.387	0.014	0.005	
Body	802.15.4	WF2b	QGX1M2P2YH	0.08	2440	18	16.00	14.99	Back	0	V2	0.052	0.025	1.262	0.039	0.019	
Body	802.15.4	WF2b	QGX1M2P2YH	0.00	2440	18	16.00	14.99	Bottom	0	V2	0.267	0.124	1.262	0.202	0.094	
Body	802.15.4	WF2b	QGX1M2P2YH	-0.02	2440	18	16.00	14.99	Right	0	V2	0.276	0.123	1.262	0.209	0.093	
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 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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Table 9-16
NB UNII Body SAR Data – Ant WF7a

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #
Body	NB U-NII 1	FHSS	WF7a	MR7XTL9LQW	76.5	0.06	5204	Mid	4	12.00	10.81	Back	0	V2	0.043	0.011	1.315	0.057	0.015	
Body	NB U-NII 1	FHSS	WF7a	MR7XTL9LQW	76.5	-0.11	5204	Mid	4	12.00	10.81	Top	0	V2	0.279	0.075	1.315	0.372	0.100	
Body	NB U-NII 1	FHSS	WF7a	T0333Y70DX	76.5	-0.11	5204	Mid	4	12.00	10.80	Top	0	V1	0.242	0.063	1.318	0.323	0.084	
Body	NB U-NII 1	FHSS	WF7a	MR7XTL9LQW	76.5	0.08	5204	Mid	4	12.00	10.81	Bottom	0	V2	0.000	0.000	1.315	0.000	0.000	
Body	NB U-NII 1	FHSS	WF7a	MR7XTL9LQW	76.5	0.06	5204	Mid	4	12.00	10.81	Right	0	V2	0.000	0.000	1.315	0.000	0.000	
Body	NB U-NII 1	FHSS	WF7a	MR7XTL9LQW	76.5	0.01	5204	Mid	4	12.00	10.81	Left	0	V2	0.000	0.000	1.315	0.000	0.000	
Body	NB U-NII 1	FHSS	WF7a	MR7XTL9LQW	77.0	0.16	5162	Low	1	10.00	9.26	Top	0	V2	0.097	0.020	1.186	0.116	0.024	
Body	NB U-NII 3	FHSS	WF7a	MR7XTL9LQW	77.0	-0.08	5789	Mid	1	13.00	12.94	Back	0	V2	0.043	0.012	1.014	0.044	0.012	
Body	NB U-NII 3	FHSS	WF7a	MR7XTL9LQW	77.0	-0.11	5789	Mid	1	13.00	12.94	Top	0	V2	0.473	0.135	1.014	0.483	0.136	
Body	NB U-NII 3	FHSS	WF7a	T0333Y70DX	77.0	-0.06	5789	Mid	1	13.00	12.54	Top	0	V1	0.476	0.138	1.112	0.533	0.154	
Body	NB U-NII 3	FHSS	WF7a	MR7XTL9LQW	77.0	0.01	5789	Mid	1	13.00	12.94	Bottom	0	V2	0.000	0.000	1.014	0.000	0.000	
Body	NB U-NII 3	FHSS	WF7a	MR7XTL9LQW	77.0	0.09	5789	Mid	1	13.00	12.94	Right	0	V2	0.000	0.000	1.014	0.000	0.000	
Body	NB U-NII 3	FHSS	WF7a	MR7XTL9LQW	77.0	0.04	5789	Mid	1	13.00	12.94	Left	0	V2	0.000	0.000	1.014	0.000	0.000	
Body	NB U-NII 3	FHSS	WF7a	MR7XTL9LQW	77.0	-0.04	5733	Low	1	9.00	7.39	Top	0	V2	0.188	0.056	1.449	0.274	0.082	
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 77.5% transmission duty factor to determine compliance since the duty factor of the device is permanently limited to 77.5% per manufacturer.

Table 9-17
NB UNII Body SAR Data – Ant WF7b

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #
Body	NB U-NII 1	FHSS	WF7b	T0333Y70DX	76.5	0.01	5245	High	4	11.50	11.37	Back	0	V1	0.012	0.005	1.030	0.013	0.005	
Body	NB U-NII 1	FHSS	WF7b	T0333Y70DX	76.5	-0.12	5245	High	4	11.50	11.37	Top	0	V1	0.100	0.022	1.030	0.104	0.023	
Body	NB U-NII 1	FHSS	WF7b	MR7XTL9LQW	76.5	0.05	5245	High	4	11.50	10.85	Top	0	V2	0.081	0.019	1.161	0.095	0.022	
Body	NB U-NII 1	FHSS	WF7b	T0333Y70DX	76.5	0.08	5162	Low	4	11.50	11.30	Top	0	V1	0.062	0.011	1.072	0.067	0.012	
Body	NB U-NII 1	FHSS	WF7b	T0333Y70DX	76.5	0.02	5204	Mid	4	11.50	11.36	Top	0	V1	0.074	0.011	1.033	0.077	0.012	
Body	NB U-NII 1	FHSS	WF7b	T0333Y70DX	76.5	0.01	5245	High	4	11.50	11.37	Bottom	0	V1	0.000	0.000	1.030	0.000	0.000	
Body	NB U-NII 1	FHSS	WF7b	T0333Y70DX	76.5	0.02	5245	High	4	11.50	11.37	Right	0	V1	0.000	0.000	1.030	0.000	0.000	
Body	NB U-NII 1	FHSS	WF7b	T0333Y70DX	76.5	0.08	5245	High	4	11.50	11.37	Left	0	V1	0.020	0.006	1.030	0.021	0.006	
Body	NB U-NII 3	FHSS	WF7b	MR7XTL9LQW	77.0	0.01	5789	Mid	1	12.50	12.48	Back	0	V2	0.011	0.002	1.005	0.011	0.002	
Body	NB U-NII 3	FHSS	WF7b	MR7XTL9LQW	77.0	0.02	5789	Mid	1	12.50	12.48	Top	0	V2	0.214	0.041	1.005	0.216	0.041	
Body	NB U-NII 3	FHSS	WF7b	T0333Y70DX	77.0	-0.10	5789	Mid	1	12.50	12.28	Top	0	V1	0.176	0.042	1.052	0.186	0.044	
Body	NB U-NII 3	FHSS	WF7b	MR7XTL9LQW	77.0	0.05	5789	Mid	1	12.50	12.48	Bottom	0	V2	0.000	0.000	1.005	0.000	0.000	
Body	NB U-NII 3	FHSS	WF7b	MR7XTL9LQW	77.0	0.02	5789	Mid	1	12.50	12.48	Right	0	V2	0.000	0.000	1.005	0.000	0.000	
Body	NB U-NII 3	FHSS	WF7b	MR7XTL9LQW	77.0	0.07	5789	Mid	1	12.50	12.48	Left	0	V2	0.015	0.002	1.005	0.015	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 reported SAR was scaled to 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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Table 9-18
NB UNII Body SAR Data – Ant WF2a

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #
Body	NB U-NII 1	FHSS	WF2a	MR7XTL9LQW	77.0	0.02	5162	Low	8	13.00	12.63	Back	0	V2	0.025	0.009	1.089	0.027	0.010	
Body	NB U-NII 1	FHSS	WF2a	MR7XTL9LQW	77.0	0.01	5162	Low	8	13.00	12.63	Top	0	V2	0.000	0.000	1.089	0.000	0.000	
Body	NB U-NII 1	FHSS	WF2a	T0333Y70DX	77.0	0.03	5162	Low	8	13.00	12.59	Bottom	0	V1	0.163	0.040	1.099	0.180	0.044	
Body	NB U-NII 1	FHSS	WF2a	MR7XTL9LQW	77.0	-0.16	5162	Low	8	13.00	12.63	Bottom	0	V2	0.165	0.040	1.089	0.181	0.044	
Body	NB U-NII 1	FHSS	WF2a	MR7XTL9LQW	77.0	0.01	5162	Low	8	13.00	12.63	Right	0	V2	0.005	0.000	1.089	0.005	0.000	
Body	NB U-NII 1	FHSS	WF2a	MR7XTL9LQW	77.0	0.01	5162	Low	8	13.00	12.63	Left	0	V2	0.000	0.000	1.089	0.000	0.000	
Body	NB U-NII 3	FHSS	WF2a	MR7XTL9LQW	77.0	0.05	5789	Mid	1	14.00	13.91	Back	0	V2	0.064	0.020	1.021	0.066	0.021	
Body	NB U-NII 3	FHSS	WF2a	MR7XTL9LQW	77.0	0.03	5789	Mid	1	14.00	13.91	Top	0	V2	0.000	0.000	1.021	0.000	0.000	
Body	NB U-NII 3	FHSS	WF2a	MR7XTL9LQW	77.0	-0.01	5844	High	1	14.00	13.77	Bottom	0	V2	0.642	0.189	1.054	0.681	0.200	
Body	NB U-NII 3	FHSS	WF2a	MR7XTL9LQW	77.0	0.04	5733	Low	1	14.00	13.84	Bottom	0	V2	0.540	0.165	1.038	0.564	0.172	
Body	NB U-NII 3	FHSS	WF2a	MR7XTL9LQW	77.0	-0.09	5789	Mid	1	14.00	13.91	Bottom	0	V2	0.679	0.216	1.021	0.698	0.222	A6
Body	NB U-NII 3	FHSS	WF2a	T0333Y70DX	77.0	0.13	5789	Mid	1	14.00	13.80	Bottom	0	V1	0.545	0.158	1.047	0.574	0.167	
Body	NB U-NII 3	FHSS	WF2a	MR7XTL9LQW	77.0	0.08	5789	Mid	1	14.00	13.91	Right	0	V2	0.034	0.007	1.021	0.035	0.007	
Body	NB U-NII 3	FHSS	WF2a	MR7XTL9LQW	77.0	0.04	5789	Mid	1	14.00	13.91	Left	0	V2	0.000	0.000	1.021	0.000	0.000	
Body	NB U-NII 3	FHSS	WF2a	MR7XTL9LQW	77.0	-0.06	5844	High	1	9.00	8.99	Bottom	0	V2	0.168	0.041	1.002	0.169	0.041	
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 77.5% transmission duty factor to determine compliance since the duty factor of the device is permanently limited to 77.5% per manufacturer.

Table 9-19
wPT SAR Body Data

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	MR7XTL9LQW	-0.02	13.6	Back	0	0.030	0.007	A7
Body	wPT	CW	MR7XTL9LQW	-0.18	13.6	Top	0	0.000	0.000	
Body	wPT	CW	MR7XTL9LQW	0.03	13.6	Bottom	0	0.000	0.000	
Body	wPT	CW	MR7XTL9LQW	0.09	13.6	Right	0	0.003	0.000	
Body	wPT	CW	MR7XTL9LQW	0.03	13.6	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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9.2 SAR Test Notes

General Notes:

1. The test data reported are the worst-case SAR values according to test procedures specified in IEEE 1528-2013, and FCC KDB Publications 447 498 D04.
2. Batteries are fully charged at the beginning of the SAR measurements.
3. Liquid tissue depth was at least 15.0 cm for all frequencies.
4. The manufacturer has confirmed that the device(s) tested have the same physical, mechanical, and thermal characteristics and are within operational tolerances expected for production units.
5. SAR results were scaled to the maximum allowed power to demonstrate compliance per FCC KDB Publication 447498 D04v01.
6. Per FCC KDB 865664 D01v01r04, variability SAR tests were performed when the measured SAR results for a frequency band were greater than or equal to 0.8 W/kg. Repeated SAR measurements are highlighted in the tables above for clarity. Please see Section 11 for variability analysis.
7. FCC KDB Publication 616217 D04v01r02 Section 4.3, SAR tests are required for the back surface and edges of the tablet with the tablet touching the phantom. The SAR Exclusion Threshold in FCC KDB 447498 D04v01 was applied to determine SAR test exclusion for adjacent edge configurations.
8. This device utilizes power reduction for some wireless modes and technologies, as outlined in Section 1.2. The maximum output power allowed for each transmitter and exposure condition was evaluated for SAR compliance based on expected use conditions and simultaneous transmission scenarios.
9. The orange highlights throughout the report represent the highest scaled SAR per Equipment Class.
10. Per FCC guidance, SAR was performed using 6.5 GHz SAR probe calibration factors. Per October 2020 TCB Workshop notes, 5 channels were tested. Absorbed power density (APD) using a 4cm² averaging area is reported based on SAR measurements.

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WLAN Notes:

1. Justification for test configurations for WLAN per KDB Publication 248227 D01v02r02 for 2.4 GHz WIFI single transmission chain operations, the highest measured maximum output power channel for DSSS was selected for SAR measurement. SAR for OFDM modes (2.4 GHz 802.11g/n/ax) was not required due to the maximum allowed powers and the highest reported DSSS SAR. See Section 6.2.4 for more information.
2. Justification for test configurations for WLAN per KDB Publication 248227 D01v02r02 for 5 GHz WIFI single transmission chain operations, the initial test configuration was selected according to the transmission mode with the highest maximum allowed powers. Other transmission modes were not investigated since the highest reported SAR for initial test configuration adjusted by the ratio of maximum output powers is less than 1.2 W/kg for 1g evaluations. See Section 6.2.5 for more information.
3. Per KDB Publication 248227 D01v02r02, SAR for MIMO was evaluated by following the simultaneous SAR provisions from KDB Publication 447498 D04v01b 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 10 for complete analysis.
4. When the maximum reported 1g averaged SAR is ≤ 0.8 W/kg, SAR testing on additional channels was not required. Otherwise, SAR for the next highest output power channel was required until the reported SAR result was ≤ 1.20 W/kg for 1g evaluations or all test channels were measured.
5. The device was configured to transmit continuously at the required data rate, channel bandwidth and signal modulation, using the highest transmission duty factor supported by the test mode tools. The reported SAR was scaled to the 100% transmission duty factor to determine compliance. Procedures used to measure the duty factor are identical to that in the associated EMC test reports.
6. The time-averaged mechanism for WLAN operations was disabled for the above SAR measurements. The SAR was scaled to the maximum time-averaged output power.

Bluetooth/NB-UNII Notes

1. Bluetooth/NB-UNII 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 7.5/7.6 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 7.5 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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9.3 Power Density Data

MEASUREMENT RESULTS																							
Frequency (MHz)	Channel	Mode	Service	Bandwidth (MHz)	Maximum Allowed Power (dBm)	Conducted Power (dBm)	Power Drift (dB)	Spacing (mm)	Antenna Config.	Variant	DUT Serial Number	Data Rate (Mbps)	Side	Duty Cycle (%)	Grid Step (A)	iPD (W/m²)	Scaling Factor for Measurement Uncertainty per IEC 62479	Scaling Factor (Duty Cycle)	Normal psPD (W/m²)	Scaled Normal psPD (W/m²)	Total psPD (W/m²)	Scaled Total psPD (W/m²)	Plot #
6025	15	802.11ax	OFDM	160	14.25	12.30	-0.19	2	WF7a	V2	W75G607LX7	68.1	Top	97.7	0.25	2.130	1.554	1.023	2.640	6.577	2.780	6.925	
6345	79	802.11ax	OFDM	160	14.50	12.61	0.01	2	WF7a	V2	W75G607LX7	68.1	Top	97.7	0.25	-	1.554	1.023	1.560	3.832	2.020	4.961	
6505	111	802.11ax	OFDM	160	13.50	11.70	-0.09	2	WF7a	V2	W75G607LX7	68.1	Top	97.7	0.25	-	1.554	1.023	1.660	3.995	2.110	5.078	
6665	143	802.11ax	OFDM	160	14.25	12.53	-0.14	2	WF7a	V2	W75G607LX7	68.1	Top	97.7	0.25	-	1.554	1.023	1.830	4.323	2.090	4.796	
6985	207	802.11ax	OFDM	160	13.25	12.05	-0.02	2	WF7a	V2	W75G607LX7	68.1	Top	97.7	0.25	-	1.554	1.023	2.260	4.735	2.860	6.034	
6345	79	802.11ax	OFDM	160	14.50	12.61	-0.12	2	WF7a	V2	W75G607LX7	68.1	Back	97.7	0.25	-	1.554	1.023	0.113	0.180	0.140	0.223	
6345	79	802.11ax	OFDM	160	14.50	12.61	0.04	2	WF7a	V2	W75G607LX7	68.1	Bottom	97.7	0.25	-	1.554	1.023	0.293	0.466	0.296	0.471	
6345	79	802.11ax	OFDM	160	14.50	12.61	0.03	2	WF7a	V2	W75G607LX7	68.1	Left	97.7	0.25	-	1.554	1.023	0.242	0.385	0.251	0.399	
6345	79	802.11ax	OFDM	160	14.50	12.61	-0.04	2	WF7a	V2	W75G607LX7	68.1	Right	97.7	0.25	-	1.554	1.023	0.672	1.068	0.695	1.105	
6025	15	802.11ax	OFDM	160	14.25	12.27	-0.11	2	WF7a	V1	VPQ74Y24P	68.1	Top	97.7	0.25	-	1.554	1.023	2.150	5.594	2.270	5.695	
6025	15	802.11ax	OFDM	160	14.25	12.30	-0.10	9.95	WF7a	V2	W75G607LX7	68.1	Top	97.7	0.25	1.260	1.554	1.023	0.456	1.136	0.985	1.457	
6025	15	802.11ax	OFDM	160	17.75	16.25	0.18	2	WF7b	V2	W75G607LX7	68.1	Top	97.7	0.25	-	1.554	1.023	1.780	3.998	2.030	4.560	
6345	79	802.11ax	OFDM	160	17.25	16.55	0.13	2	WF7b	V2	W75G607LX7	68.1	Top	97.7	0.25	-	1.554	1.023	1.930	3.605	3.120	5.828	
6505	111	802.11ax	OFDM	160	14.25	13.65	0.18	2	WF7b	V2	W75G607LX7	68.1	Top	97.7	0.25	-	1.554	1.023	0.863	1.575	1.560	2.117	
6665	143	802.11ax	OFDM	160	18.00	16.31	-0.03	2	WF7b	V2	W75G607LX7	68.1	Top	97.7	0.25	4.170	1.554	1.023	2.440	5.725	2.860	6.711	
6985	207	802.11ax	OFDM	160	16.00	15.02	0.11	2	WF7b	V2	W75G607LX7	68.1	Top	97.7	0.25	-	1.554	1.023	1.980	3.944	2.410	4.801	
6665	143	802.11ax	OFDM	160	18.00	16.31	0.14	2	WF7b	V2	W75G607LX7	68.1	Back	97.7	0.25	-	1.554	1.023	0.403	0.946	0.482	1.131	
6665	143	802.11ax	OFDM	160	18.00	16.31	0.20	2	WF7b	V2	W75G607LX7	68.1	Bottom	97.7	0.25	-	1.554	1.023	0.274	0.643	0.293	0.688	
6665	143	802.11ax	OFDM	160	18.00	16.31	0.15	2	WF7b	V2	W75G607LX7	68.1	Left	97.7	0.25	-	1.554	1.023	0.505	1.302	0.953	1.391	
6665	143	802.11ax	OFDM	160	18.00	16.31	0.05	2	WF7b	V2	W75G607LX7	68.1	Right	97.7	0.25	-	1.554	1.023	0.224	0.526	0.234	0.549	
6665	143	802.11ax	OFDM	160	18.00	16.15	0.02	2	WF7b	V1	VPQ74Y24P	68.1	Top	97.7	0.25	-	1.554	1.023	1.050	2.556	1.930	4.697	
6665	143	802.11ax	OFDM	160	18.00	16.31	0.03	9	WF7b	V2	W75G607LX7	68.1	Top	97.7	0.25	2.450	1.554	1.023	1.430	3.355	1.530	3.590	
6025	15	802.11ax	OFDM	160	14.00	13.29	0.03	2	WF2a	V2	W75G607LX7	68.1	Bottom	97.7	0.25	2.070	1.554	1.023	3.300	6.180	3.540	6.629	Alt
6345	79	802.11ax	OFDM	160	14.00	13.55	-0.05	2	WF2a	V2	W75G607LX7	68.1	Bottom	97.7	0.25	-	1.554	1.023	1.270	2.239	2.100	3.702	
6505	111	802.11ax	OFDM	160	13.25	12.83	-0.17	2	WF2a	V2	W75G607LX7	68.1	Bottom	97.7	0.25	-	1.554	1.023	1.320	2.298	2.100	3.692	
6665	143	802.11ax	OFDM	160	13.25	12.98	-0.09	2	WF2a	V2	W75G607LX7	68.1	Bottom	97.7	0.25	-	1.554	1.023	1.360	2.300	2.190	3.704	
6985	207	802.11ax	OFDM	160	12.50	12.35	0.17	2	WF2a	V2	W75G607LX7	68.1	Bottom	97.7	0.25	-	1.554	1.023	2.040	3.357	2.750	4.525	
6345	79	802.11ax	OFDM	160	14.00	13.55	-0.03	2	WF2a	V2	W75G607LX7	68.1	Back	97.7	0.25	-	1.554	1.023	0.446	0.786	0.556	0.980	
6345	79	802.11ax	OFDM	160	14.00	13.55	0.17	2	WF2a	V2	W75G607LX7	68.1	Top	97.7	0.25	-	1.554	1.023	0.403	0.710	0.431	0.760	
6345	79	802.11ax	OFDM	160	14.00	13.55	0.07	2	WF2a	V2	W75G607LX7	68.1	Left	97.7	0.25	-	1.554	1.023	0.197	0.347	0.212	0.374	
6345	79	802.11ax	OFDM	160	14.00	13.55	0.13	2	WF2a	V2	W75G607LX7	68.1	Right	97.7	0.25	-	1.554	1.023	0.305	0.538	0.394	0.695	
6025	15	802.11ax	OFDM	160	14.00	13.17	0.02	2	WF2a	V1	VPQ74Y24P	68.1	Bottom	97.7	0.25	-	1.554	1.023	2.480	4.774	2.750	5.294	
6025	15	802.11ax	OFDM	160	14.00	13.29	0.11	9.95	WF2a	V2	W75G607LX7	68.1	Bottom	97.7	0.25	1.930	1.554	1.023	1.740	3.259	1.870	3.502	
47 CFR 91.1310 - SAFETY LIMIT Spatial Average Uncontrolled Exposure / General Population											Power Density 10 W/m² averaged over 4 cm²												

9.4 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 D01.
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 physical test configuration is ≤ 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.

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 Bluetooth TxBF and wPT

Simult Tx	Configuration	2.4 GHz Bluetooth Ant WF7b SAR (W/kg)	2.4 GHz Bluetooth TxBF Ant WF2b SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Body SAR	Back	0.196	0.175	0.030	0.401
	Top	1.175	0.012	0.000	1.187
	Bottom	0.025	0.803	0.000	0.828
	Right	0.013	0.852	0.003	0.868
	Left	0.065	0.008	0.000	0.073

Table 10-2
Simultaneous Transmission Scenario with NB UNII TxBF and wPT

Simult Tx	Configuration	NB U-NII Ant WF7a SAR (W/kg)	NB U-NII Ant WF2a SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Body SAR	Back	0.057	0.066	0.030	0.153
	Top	0.533	0.000	0.000	0.533
	Bottom	0.000	0.698	0.000	0.698
	Right	0.000	0.035	0.003	0.038
	Left	0.000	0.000	0.000	0.000

Table 10-3
Simultaneous Transmission Scenario with Bluetooth, 2.4 GHz WLAN and wPT

Simult Tx	Configuration	2.4 GHz Bluetooth Ant WF2b SAR (W/kg)	2.4 GHz WIFI Ant WF7b SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Body SAR	Back	0.175	0.220	0.030	0.425
	Top	0.012	1.179	0.000	1.191
	Bottom	0.803	0.050	0.000	0.853
	Right	0.852	0.001	0.003	0.856
	Left	0.008	0.083	0.000	0.091

Table 10-4
Simultaneous Transmission Scenario with 802.15.4, 2.4 GHz WLAN and wPT

Simult Tx	Configuration	802.15.4 Ant WF2b SAR (W/kg)	2.4 GHz WIFI Ant WF7b SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Body SAR	Back	0.177	0.220	0.030	0.427
	Top	0.022	1.179	0.000	1.201
	Bottom	0.605	0.050	0.000	0.655
	Right	0.684	0.001	0.003	0.688
	Left	0.014	0.083	0.000	0.097

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Table 10-5
Simultaneous Transmission Scenario with Bluetooth TxBF, 5 GHz WLAN MIMO and wPT

Simult Tx	Configuration	2.4 GHz Bluetooth Ant WF7b at 13 dBm SAR (W/kg)	2.4 GHz Bluetooth Ant WF2b at 13 dBm SAR (W/kg)	5 GHz WIFI Ant WF7a SAR (W/kg)	5 GHz WIFI Ant WF2a SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.022	0.020	0.197	0.128	0.030	0.397
	Top	0.096	0.012	1.183	0.009	0.000	1.300
	Bottom	0.025	0.100	0.013	1.100	0.000	1.238
	Right	0.013	0.101	0.000	0.108	0.003	0.225
	Left	0.065	0.008	0.006	0.012	0.000	0.091

Table 10-6
Simultaneous Transmission Scenario with Bluetooth TxBF, 5 GHz WLAN MIMO and wPT

Simult Tx	Configuration	2.4 GHz Bluetooth Ant WF7b at 13 dBm SAR (W/kg)	2.4 GHz Bluetooth Ant WF2b at 13 dBm SAR (W/kg)	5 GHz WIFI Ant WF2a SAR (W/kg)	5 GHz WIFI Ant WF7b SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.022	0.020	0.128	0.108	0.030	0.308
	Top	0.096	0.012	0.009	1.156	0.000	1.273
	Bottom	0.025	0.100	1.100	0.029	0.000	1.254
	Right	0.013	0.101	0.108	0.013	0.003	0.238
	Left	0.065	0.008	0.012	0.194	0.000	0.279

Table 10-7
Simultaneous Transmission Scenario with Bluetooth TxBF, 6 GHz WLAN MIMO and wPT

Simult Tx	Configuration	2.4 GHz Bluetooth Ant WF7b at 13 dBm SAR (W/kg)	2.4 GHz Bluetooth Ant WF2b at 13 dBm SAR (W/kg)	6 GHz WIFI Ant WF7a SAR (W/kg)	6 GHz WIFI Ant WF2a SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.022	0.020	0.128	0.112	0.030	0.312
	Top	0.096	0.012	1.179	0.005	0.000	1.292
	Bottom	0.025	0.100	0.003	1.167	0.000	1.295
	Right	0.013	0.101	0.000	0.051	0.003	0.168
	Left	0.065	0.008	0.000	0.000	0.000	0.073

Table 10-8
Simultaneous Transmission Scenario with Bluetooth TxBF, 6 GHz WLAN MIMO and wPT

Simult Tx	Configuration	2.4 GHz Bluetooth Ant WF7b at 13 dBm SAR (W/kg)	2.4 GHz Bluetooth Ant WF2b at 13 dBm SAR (W/kg)	6 GHz WIFI Ant WF2a SAR (W/kg)	6 GHz WIFI Ant WF7b SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.022	0.020	0.112	0.122	0.030	0.306
	Top	0.096	0.012	0.005	1.179	0.000	1.292
	Bottom	0.025	0.100	1.167	0.041	0.000	1.333
	Right	0.013	0.101	0.051	0.006	0.003	0.174
	Left	0.065	0.008	0.000	0.158	0.000	0.231

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Table 10-9
Simultaneous Transmission Scenario with 802.15.4, 5 GHz WLAN MIMO and wPT

Simult Tx	Configuration	802.15.4 Ant WF7b at 15.5 dBm SAR (W/kg)	5 GHz WIFI Ant WF7a SAR (W/kg)	5 GHz WIFI Ant WF2a SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.028	0.197	0.128	0.030	0.383
	Top	0.155	1.183	0.009	0.000	1.347
	Bottom	0.013	0.013	1.100	0.000	1.126
	Right	0.000	0.000	0.108	0.003	0.111
	Left	0.013	0.006	0.012	0.000	0.031

Table 10-10
Simultaneous Transmission Scenario with 802.15.4, 5 GHz WLAN MIMO and wPT

Simult Tx	Configuration	802.15.4 Ant WF7b at 15.5 dBm SAR (W/kg)	5 GHz WIFI Ant WF2a SAR (W/kg)	5 GHz WIFI Ant WF7b SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.028	0.128	0.108	0.030	0.294
	Top	0.155	0.009	1.156	0.000	1.320
	Bottom	0.013	1.100	0.029	0.000	1.142
	Right	0.000	0.108	0.013	0.003	0.124
	Left	0.013	0.012	0.194	0.000	0.219

Table 10-11
Simultaneous Transmission Scenario with 802.15.4, 5 GHz WLAN MIMO and wPT

Simult Tx	Configuration	802.15.4 Ant WF2b at 16 dBm SAR (W/kg)	5 GHz WIFI Ant WF7b SAR (W/kg)	5 GHz WIFI Ant WF2a SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.039	0.108	0.128	0.030	0.305
	Top	0.022	1.156	0.009	0.000	1.187
	Bottom	0.202	0.029	1.100	0.000	1.331
	Right	0.209	0.013	0.108	0.003	0.333
	Left	0.014	0.194	0.012	0.000	0.220

Table 10-12
Simultaneous Transmission Scenario with 802.15.4, 5 GHz WLAN MIMO and wPT

Simult Tx	Configuration	802.15.4 Ant WF2b at 16 dBm SAR (W/kg)	5 GHz WIFI Ant WF7a SAR (W/kg)	5 GHz WIFI Ant WF2a SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.039	0.197	0.128	0.030	0.394
	Top	0.022	1.183	0.009	0.000	1.214
	Bottom	0.202	0.013	1.100	0.000	1.315
	Right	0.209	0.000	0.108	0.003	0.320
	Left	0.014	0.006	0.012	0.000	0.032

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Table 10-13
Simultaneous Transmission Scenario with 802.15.4, 6 GHz WLAN MIMO and wPT

Simult Tx	Configuration	802.15.4 Ant WF7b at 15.5 dBm SAR (W/kg)	6 GHz WIFI Ant WF7a SAR (W/kg)	6 GHz WIFI Ant WF2a SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.028	0.128	0.112	0.030	0.298
	Top	0.155	1.179	0.005	0.000	1.339
	Bottom	0.013	0.003	1.167	0.000	1.183
	Right	0.000	0.000	0.051	0.003	0.054
	Left	0.013	0.000	0.000	0.000	0.013

Table 10-14
Simultaneous Transmission Scenario with 802.15.4, 6 GHz WLAN MIMO and wPT

Simult Tx	Configuration	802.15.4 Ant WF7b at 15.5 dBm SAR (W/kg)	6 GHz WIFI Ant WF2a SAR (W/kg)	6 GHz WIFI Ant WF7b SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.028	0.112	0.122	0.030	0.292
	Top	0.155	0.005	1.179	0.000	1.339
	Bottom	0.013	1.167	0.041	0.000	1.221
	Right	0.000	0.051	0.006	0.003	0.060
	Left	0.013	0.000	0.158	0.000	0.171

Table 10-15
Simultaneous Transmission Scenario with 802.15.4, 6 GHz WLAN MIMO and wPT

Simult Tx	Configuration	802.15.4 Ant WF2b at 16 dBm SAR (W/kg)	6 GHz WIFI Ant WF7b SAR (W/kg)	6 GHz WIFI Ant WF2a SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.039	0.122	0.112	0.030	0.303
	Top	0.022	1.179	0.005	0.000	1.206
	Bottom	0.202	0.041	1.167	0.000	1.410
	Right	0.209	0.006	0.051	0.003	0.269
	Left	0.014	0.158	0.000	0.000	0.172

Table 10-16
Simultaneous Transmission Scenario with 802.15.4, 6 GHz WLAN MIMO and wPT

Simult Tx	Configuration	802.15.4 Ant WF2b at 16 dBm SAR (W/kg)	6 GHz WIFI Ant WF7a SAR (W/kg)	6 GHz WIFI Ant WF2a SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.039	0.128	0.112	0.030	0.309
	Top	0.022	1.179	0.005	0.000	1.206
	Bottom	0.202	0.003	1.167	0.000	1.372
	Right	0.209	0.000	0.051	0.003	0.263
	Left	0.014	0.000	0.000	0.000	0.014

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Table 10-17
Simultaneous Transmission Scenario with NB UNII, 2.4 GHz WLAN MIMO and wPT

	Configuration	NB U-NII Ant WF7b Reduced SAR (W/kg)	2.4 GHz WIFI Ant WF7b SAR (W/kg)	2.4 GHz WIFI Ant WF2b SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.013	0.220	0.223	0.030	0.486
	Top	0.216	1.179	0.039	0.000	1.434
	Bottom	0.000	0.050	1.030	0.000	1.080
	Right	0.000	0.001	1.115	0.003	1.119
	Left	0.021	0.083	0.014	0.000	0.118

Table 10-18
Simultaneous Transmission Scenario with NB UNII TxBF, 2.4 GHz WLAN MIMO and wPT

Simult Tx	Configuration	NB U-NII Ant WF7a Reduced SAR (W/kg)	NB U-NII Ant WF2a Reduced SAR (W/kg)	2.4 GHz WIFI Ant WF7b SAR (W/kg)	2.4 GHz WIFI Ant WF2b SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.057	0.066	0.220	0.223	0.030	0.596
	Top	0.274	0.000	1.179	0.039	0.000	1.492
	Bottom	0.000	0.181	0.050	1.030	0.000	1.261
	Right	0.000	0.035	0.001	1.115	0.003	1.154
	Left	0.000	0.000	0.083	0.014	0.000	0.097

10.4 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 ≥ 0.80 W/kg, the measurement was repeated once.
- 2) A second repeated measurement was performed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg (~ 10% from the 1g SAR limit).
- 3) A third repeated measurement was performed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .
- 4) Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg.
- 5) When 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds above.

Table 11-1
Body SAR Measurement Variability Results

BODY VARIABILITY RESULTS													
Band	FREQUENCY		Mode	Service	Ant	Data Rate (Mbps)	Side	Spacing	Measured SAR (1g)	1st Repeated SAR (1g)	Ratio	2nd Repeated SAR (1g)	3rd Repeated SAR (1g)
	MHz	Ch.							(W/kg)	(W/kg)		(W/kg)	(W/kg)
2450	2462	11	2.4 GHz WIFI/ IEEE 802.11b, 22 MHz Bandwidth	DSSS	WF7b	1.0	Top	0 mm	1.040	1.040	1.00	N/A	N/A
5250	5290	58	5 GHz WIFI/ IEEE 802.11ac, 80 MHz Bandwidth	OFDM	WF7a	29.3	Top	0 mm	1.080	1.070	1.01	N/A	N/A
5600	5610	122	5 GHz WIFI/ IEEE 802.11ac, 80 MHz Bandwidth	OFDM	WF7a	29.3	Top	0 mm	0.981	0.965	1.02	N/A	N/A
5750	5690	138	5 GHz WIFI/ IEEE 802.11ac, 80 MHz Bandwidth	OFDM	WF2a	29.3	Bottom	0 mm	0.925	0.864	1.07	N/A	N/A
6500	6985	207	6 GHz WIFI/ IEEE 802.11ax, 160 MHz	OFDM	WF2a	68.1	Bottom	0 mm	1.070	1.030	1.04	N/A	N/A
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population									Body 1.6 W/kg (mW/g) averaged over 1 gram				

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	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	1/12/2023	Annual	1/12/2024	MY40001472
Agilent	8753ES	S-Parameter Vector Network Analyzer	6/2/2023	Annual	6/2/2024	MY40003841
Agilent	E5515C	Wireless Communications Test Set	CBT	N/A	CBT	US41140256
Agilent	E5515C	Wireless Communications Test Set	1/12/2023	Annual	1/12/2024	MY50262130
Agilent	N4010A	Wireless Connectivity Test Set	N/A	N/A	N/A	GB46170464
Amplifier Research	1551G6	Amplifier	CBT	N/A	CBT	433973
Amplifier Research	1551G6	Amplifier	CBT	N/A	CBT	433974
Amplifier Research	150A100C	Amplifier	CBT	N/A	CBT	350132
Anritsu	MN8110B	I/O Adaptor	CBT	N/A	CBT	6261747881
Anritsu	ML2496A	Power Meter	6/15/2023	Annual	6/15/2024	1138001
Anritsu	ML2495A	Power Meter	6/13/2023	Annual	6/13/2024	1039008
Anritsu	MA2411B	Pulse Power Sensor	8/22/2023	Annual	8/22/2024	1726262
Anritsu	MA2411B	Pulse Power Sensor	1/10/2023	Annual	1/10/2024	1339026
Anritsu	MA24106A	USB Power Sensor	6/15/2023	Annual	6/15/2024	1827530
Anritsu	MA24106A	USB Power Sensor	12/4/2023	Annual	12/4/2024	1520501
Control Company	4052	Long Stem Thermometer	2/17/2023	Biennial	2/17/2025	230111049
Control Company	4040	Therm./ Clock/ Humidity Monitor	1/17/2023	Annual	1/17/2024	160574418
Mitutoyo	500-196-30	CD-6"ASX 6inch Digital Caliper	2/16/2022	Triennial	2/16/2025	A20238413
Keysight Technologies	N6705B	DC Power Analyzer	5/5/2021	Triennial	5/5/2024	MY53004059
Keysight Technologies	N9020A	MXA Signal Analyzer	4/6/2023	Annual	4/6/2024	MY48010233
Agilent	N9020A	MXA Signal Analyzer	4/26/2022	Biennial	4/26/2024	MY56470202
MCL	BW-N6W5+	6dB Attenuator	CBT	N/A	CBT	1139
Mini-Circuits	VLF-6000+	Low Pass Filter DC to 6000 MHz	CBT	N/A	CBT	N/A
Mini-Circuits	VLF-6000+	Low Pass Filter DC to 6000 MHz	7/5/2023	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	CBT	N/A	CBT	1262
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)	3/13/2023	Annual	3/13/2024	1102
SPEAG	CLA-13	Confined Loop Antenna	11/9/2023	Annual	1/9/2024	1004
SPEAG	D2450V2	2450 MHz SAR Dipole	11/9/2021	Triennial	11/9/2024	921
SPEAG	D2450V2	2450 MHz SAR Dipole	5/11/2022	Biennial	5/11/2024	750
SPEAG	D5GHzV2	5 GHz SAR Dipole	3/22/2022	Biennial	3/22/2024	1123
SPEAG	D6.5GHzV2	6.5 GHz SAR Dipole	10/11/2023	Annual	10/11/2024	1019
SPEAG	5G Verification Source 10 GHz	10 GHz System Verification Antenna	3/6/2023	Annual	3/6/2024	1002
SPEAG	DAE4	Dasy Data Acquisition Electronics	3/15/2023	Annual	3/15/2024	534
SPEAG	DAE4	Dasy Data Acquisition Electronics	10/18/2023	Annual	10/18/2024	793
SPEAG	DAE4	Dasy Data Acquisition Electronics	10/18/2023	Annual	10/18/2024	1237
SPEAG	DAE4	Dasy Data Acquisition Electronics	5/11/2023	Annual	5/11/2024	1683
SPEAG	DAE4	Dasy Data Acquisition Electronics	3/15/2023	Annual	3/15/2024	604
SPEAG	EX3DV4	SAR Probe	3/16/2023	Annual	3/16/2024	7360
SPEAG	EX3DV4	SAR Probe	5/11/2023	Annual	5/11/2024	7682
SPEAG	EX3DV4	SAR Probe	10/16/2023	Annual	10/16/2024	3746
SPEAG	EX3DV4	SAR Probe	3/16/2023	Annual	3/16/2024	7421
SPEAG	EUmmWV4	EUmmWV4 Probe	1/16/2023	Annual	1/16/2024	9523
SPEAG	EUmmWV4	EUmmWV4 Probe	10/9/2023	Annual	10/9/2024	9407

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

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13 MEASUREMENT UNCERTAINTIES

Applicable for SAR measurements < 6 GHz:

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

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

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Applicable for SAR measurements > 6 GHz:

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

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

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Applicable for Power Density measurements:

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

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14 CONCLUSION

14.1 Measurement Conclusion

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

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

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