



SAR EVALUATION REPORT

Applicant Name:

Apple Inc.
One Apple Park Way
Cupertino, CA 95014 USA

Date of Testing:

01/08/2024 – 03/07/2024

Test Report Issue Date:

03/16/2024

Test Site/Location:

Element, Morgan Hill, CA, USA

Document Serial No.:

1C2311270068-02.BCG-R1

FCC ID:

BCGA2837

APPLICANT:

APPLE, INC.

DUT Type:

Tablet Device

Application Type:

Certification

FCC Rule Part(s):

CFR §2.1093

Models:

A2837, A3006

[illegible]

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.

[Signature]

RJ Ortanez

Executive Vice President



Prepared by: WKR0000008912

Reviewed by: WKR0000006266



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1 DEVICE UNDER TEST

1.1 Device Overview

Band & Mode	Operating Modes	Tx Frequency
UMTS 850	Data	826.4 - 846.6 MHz
UMTS 1750	Data	1712.4 - 1752.6 MHz
UMTS 1900	Data	1852.4 - 1907.6 MHz
LTE Band 71	Data	665.5 - 695.5 MHz
LTE Band 12	Data	699.7 - 715.3 MHz
LTE Band 17	Data	706.5 - 713.5 MHz
LTE Band 13	Data	779.5 - 784.5 MHz
LTE Band 14	Data	790.5 - 795.5 MHz
LTE Band 26 (Cell)	Data	814.7 - 848.3 MHz
LTE Band 5 (Cell)	Data	824.7 - 848.3 MHz
LTE Band 66 (AWS)	Data	1710.7 - 1779.3 MHz
LTE Band 4 (AWS)	Data	1710.7 - 1754.3 MHz
LTE Band 25 (PCS)	Data	1850.7 - 1914.3 MHz
LTE Band 2 (PCS)	Data	1850.7 - 1909.3 MHz
LTE Band 30	Data	2307.5 - 2312.5 MHz
LTE Band 7	Data	2502.5 - 2567.5 MHz
LTE Band 41	Data	2498.5 - 2687.5 MHz
LTE Band 48	Data	3552.5 - 3697.5 MHz
NR Band n71	Data	665.5 - 695.5 MHz
NR Band n12	Data	701.5 - 713.5 MHz
NR Band n14	Data	790.5 - 795.5 MHz
NR Band n26 (Cell)	Data	816.5 - 846.5 MHz
NR Band n5 (Cell)	Data	826.5 - 846.5 MHz
NR Band n70	Data	1697.5 - 1707.5 MHz
NR Band n66 (AWS)	Data	1712.5 - 1777.5 MHz
NR Band n25 (PCS)	Data	1852.5 - 1912.5 MHz
NR Band n2 (PCS)	Data	1852.5 - 1907.5 MHz
NR Band n30	Data	2307.5 - 2312.5 MHz
NR Band n7	Data	2502.5 - 2567.5 MHz
NR Band n41	Data	2506.02 - 2679.99 MHz
NR Band n48	Data	3555.0 - 3694.98 MHz
NR Band n77 DoD	Data	3455.01 - 3544.98 MHz
NR Band n77 C	Data	3705.0 - 3975.0 MHz
2.4 GHz WLAN	Voice/Data	2412 - 2472 MHz
5 GHz WIFI	Voice/Data	U-NII-1: 5180 - 5240 MHz U-NII-2A: 5260 - 5320 MHz U-NII-2C: 5500 - 5720 MHz U-NII-3: 5745 - 5825 MHz
6 GHz WIFI	Voice/Data	U-NII-5: 5955 - 6415 MHz U-NII-6: 6435 - 6515 MHz U-NII-7: 6535 - 6875 MHz U-NII-8: 6895 - 7115 MHz
Bluetooth	Data	2402 - 2480 MHz
802.15.4	Data	2405 - 2475 MHz
NB UNII-1	Data	5162 - 5245 MHz
NB UNII-3	Data	5733 - 5844 MHz
WPT	N/A	13.56 MHz

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1.2 Time-Averaging Algorithm for RF Exposure Compliance

This device is enabled with the Qualcomm® Smart Transmit Gen2 feature. This feature performs a time averaging algorithm in real time to control and manage transmitting power and ensure the time-averaged RF exposure is in compliance with FCC requirements all the time. Refer to Compliance Summary document for detailed description of Qualcomm® Smart Transmit feature (report SN could be found in Section 1.10 – Bibliography).

Note that WLAN operations are not enabled with Smart Transmit.

The Smart Transmit algorithm maintains the time-averaged transmit power, in turn, time-averaged RF exposure of SAR design_target, below the predefined time-averaged power limit (i.e., Plimit for sub-6 radio), for each characterized technology and band (see RF Exposure Part 0 Test Report, report SN could be found in Section 1.10 - Bibliography).

Smart Transmit allows the device to transmit at higher power instantaneously, as high as P_{max} , when needed, but enforces power limiting to maintain time-averaged transmit power to P_{limit} . Below table shows P_{limit} EFS settings and maximum tune up output power P_{max} configured for this EUT for various transmit conditions (Device State Index DSI). Note that the Smart Tx uncertainty for sub-6GHz WWAN is +1.0 /-1.0 dB for this EUT.

[illegible]

*Maximum tune up output power Pmax is used to configure EUT during RF tune up procedure. The maximum allowed output power is equal to maximum Tune up output power +0.7/-1.0 dB conducted power tolerance and for UHB +/- 1.0 dB for conducted power tolerance.

*Note all P_{limit} EFS and maximum tune up output power P_{max} levels entered in above Table correspond to average power levels after accounting for duty cycle in the case of TDD modulation schemes (for e.g., LTE TDD).

The maximum time-averaged output power (dBm) for any Sub6 WWAN technology, band, and DSI = minimum of " P_{limit} EFS" and "Maximum tune up output power P_{max} " +1.0/-1.0 dB smart tx uncertainty. SAR values in this report were scaled to this maximum time-averaged output power to determine compliance per KDB Publication 447498 D04v01.

The purpose of this report (Part 1 test) is to demonstrate that the EUT meets FCC SAR limits when transmitting in static transmission scenario at maximum allowable time-averaged power levels.

Measurement Condition: All conducted power and SAR measurements in this report (Part 1 test) were performed by setting Reserve power margin (Smart Transmit EFS entry) to 0 dB.

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1.3 Power Reduction for SAR

This device additionally utilizes a power reduction mechanism for Bluetooth and WLAN operations. When WLAN/Bluetooth is operating simultaneously with certain combinations of 3G/4G and 5/6 GHz WLAN antennas, the output power of 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.

1.4 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.

1.4.1 WWAN Output Power

Table 1-1
UMTS B5 (850 MHz)

Mode/Band			Modulated Average Output Power (in dBm)	
			Ant 1	Ant 3
UMTS Band 5 (850 MHz)	Max allowed power	3GPP WCDMA Rel 99	20.20	19.70
	Nominal		19.20	18.70
	Max allowed power	3GPP HSDPA Rel 5	20.20	19.70
	Nominal		19.20	18.70
	Max allowed power	3GPP HSUPA Rel 6	20.20	19.70
	Nominal		19.20	18.70
	Max allowed power	3GPP DC-HSDPA Rel 8	20.20	19.70
	Nominal		19.20	18.70

Table 1-2
UMTS B4 (1750 MHz)

Mode/Band			Modulated Average Output Power (in dBm)			
			Ant 1	Ant 2b	Ant 3	Ant 4b
UMTS Band 4 (1750 MHz)	Max allowed power	3GPP WCDMA Rel 99	14.50	13.20	16.10	12.90
	Nominal		13.50	12.20	15.10	11.90
	Max allowed power	3GPP HSDPA Rel 5	14.50	13.20	16.10	12.90
	Nominal		13.50	12.20	15.10	11.90
	Max allowed power	3GPP HSUPA Rel 6	14.50	13.20	16.10	12.90
	Nominal		13.50	12.20	15.10	11.90
	Max allowed power	3GPP DC-HSDPA Rel 8	14.50	13.20	16.10	12.90
	Nominal		13.50	12.20	15.10	11.90

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Table 1-3
UMTS B2 (1900 MHz)

Mode/Band			Modulated Average Output Power (in dBm)			
			Ant 1	Ant 2b	Ant 3	Ant 4b
UMTS Band 2 (1900 MHz)	Max allowed power	3GPP WCDMA Rel 99	13.60	12.50	14.80	12.30
	Nominal		12.60	11.50	13.80	11.30
	Max allowed power	3GPP HSDPA Rel 5	13.60	12.50	14.80	12.30
	Nominal		12.60	11.50	13.80	11.30
	Max allowed power	3GPP HSUPA Rel 6	13.60	12.50	14.80	12.30
	Nominal		12.60	11.50	13.80	11.30
	Max allowed power	3GPP DC-HSDPA Rel 8	13.60	12.50	14.80	12.30
	Nominal		12.60	11.50	13.80	11.30

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**Table 1-4
LTE Bands**

Mode / Band		Modulated Average Output Power (in dBm)			
		Ant 1	Ant 2b	Ant 3	Ant 4b
LTE FDD Band 71	Max allowed power	19.80		19.50	
	Nominal	18.80		18.50	
LTE FDD Band 12	Max allowed power	20.30		19.20	
	Nominal	19.30		18.20	
LTE FDD Band 17	Max allowed power	20.30		19.20	
	Nominal	19.30		18.20	
LTE FDD Band 13	Max allowed power	21.50		19.80	
	Nominal	20.50		18.80	
LTE FDD Band 14	Max allowed power	20.10		19.80	
	Nominal	19.10		18.80	
LTE FDD Band 26	Max allowed power	20.20		19.70	
	Nominal	19.20		18.70	
LTE FDD Band 5	Max allowed power	20.20		19.70	
	Nominal	19.20		18.70	
LTE FDD Band 5 Intra-band ULCA	Max allowed power	20.20		19.70	
	Nominal	19.20		18.70	
LTE FDD Band 4	Max allowed power	14.50	13.20	16.10	12.90
	Nominal	13.50	12.20	15.10	11.90
LTE FDD Band 66	Max allowed power	14.50	13.20	16.10	12.90
	Nominal	13.50	12.20	15.10	11.90
LTE FDD Band 2	Max allowed power	13.60	12.50	14.80	12.30
	Nominal	12.60	11.50	13.80	11.30
LTE FDD Band 25	Max allowed power	13.60	12.50	14.80	12.30
	Nominal	12.60	11.50	13.80	11.30
LTE FDD Band 30	Max allowed power	15.80	12.50	13.10	12.00
	Nominal	14.80	11.50	12.10	11.00
LTE FDD Band 7	Max allowed power	14.00	12.10	13.20	11.10
	Nominal	13.00	11.10	12.20	10.10
LTE FDD Band 7 Intra-band ULCA	Max allowed power	14.00	12.10	13.20	11.10
	Nominal	13.00	11.10	12.20	10.10
LTE TDD Band 41 (PC3)	Max allowed power	16.00	14.00	13.90	12.90
	Nominal	15.00	13.00	12.90	11.90
LTE TDD Band 41 (PC3) Intra-band ULCA	Max allowed power	16.00	14.00	13.90	12.90
	Nominal	15.00	13.00	12.90	11.90
LTE TDD Band 41 (PC2)	Max allowed power	17.60	15.60	15.50	14.50
	Nominal	16.60	14.60	14.50	13.50
LTE TDD Band 41 (PC2) Intra-band ULCA	Max allowed power	17.60	15.60	15.50	14.50
	Nominal	16.60	14.60	14.50	13.50
LTE TDD Band 48	Max allowed power	14.00	14.10	14.00	13.20
	Nominal	13.00	13.10	13.00	12.20
LTE TDD Band 48 Intra-band ULCA	Max allowed power	14.00	14.10	14.00	13.20
	Nominal	13.00	13.10	13.00	12.20

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Table 1-5
NR Bands

Mode / Band		Modulated Average Output Power (in dBm)			
		Ant 1	Ant 2b	Ant 3	Ant 4b
NR FDD Band n71	Max allowed power	19.80		19.50	
	Nominal	18.80		18.50	
NR FDD Band n12	Max allowed power	20.30		19.20	
	Nominal	19.30		18.20	
NR FDD Band n14	Max allowed power	20.10		19.80	
	Nominal	19.10		18.80	
NR FDD Band n26	Max allowed power	20.20		19.70	
	Nominal	19.20		18.70	
NR FDD Band n5	Max allowed power	20.20		19.70	
	Nominal	19.20		18.70	
NR FDD Band n70	Max allowed power	14.50	13.20	16.10	12.90
	Nominal	13.50	12.20	15.10	11.90
NR FDD Band n66	Max allowed power	14.50	13.20	16.10	12.90
	Nominal	13.50	12.20	15.10	11.90
NR FDD Band n2	Max allowed power	13.60	12.50	14.80	12.30
	Nominal	12.60	11.50	13.80	11.30
NR FDD Band n25	Max allowed power	13.60	12.50	14.80	12.30
	Nominal	12.60	11.50	13.80	11.30
NR FDD Band n30	Max allowed power	15.80	12.50	13.10	12.00
	Nominal	14.80	11.50	12.10	11.00
NR FDD Band n7	Max allowed power	14.00	12.10	13.20	11.10
	Nominal	13.00	11.10	12.20	10.10
NR TDD Band n41 (PC3)	Max allowed power	14.00	12.00	11.90	10.90
	Nominal	13.00	11.00	10.90	9.90
NR TDD Band n41 (PC2)	Max allowed power	14.00	12.00	11.90	10.90
	Nominal	13.00	11.00	10.90	9.90
NR TDD Band n77 (PC3)	Max allowed power	10.90	11.50	10.80	10.80
	Nominal	9.90	10.50	9.80	9.80
NR TDD Band n77 (PC2)	Max allowed power	10.90	11.50	10.80	10.80
	Nominal	9.90	10.50	9.80	9.80
NR TDD Band n48	Max allowed power	12.00	12.10	12.00	11.20
	Nominal	11.00	11.10	11.00	10.20

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1.4.2 Maximum WLAN Time-Averaged Output Power

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

*The tolerances specified in the tables in this report refers to conducted tolerances.

Mode	IEEE 802.11 (Maximum in dBm) - Antenna 4a Tolerance (+0/-3 dB)						
	Channel	SISO				MIMO	
		b	g	n	ax SU	g/n	ax SU
2.4 GHz WIFI 20 MHz Bandwidth	1	11.75	11.75	11.75	11.75	11.75	11.75
	2	11.75	11.75	11.75	11.75	11.75	11.75
	3	11.75	11.75	11.75	11.75	11.75	11.75
	4	11.75	11.75	11.75	11.75	11.75	11.75
	5	11.75	11.75	11.75	11.75	11.75	11.75
	6	11.75	11.75	11.75	11.75	11.75	11.75
	7	11.75	11.75	11.75	11.75	11.75	11.75
	8	11.75	11.75	11.75	11.75	11.75	11.75
	9	11.75	11.75	11.75	11.75	11.75	11.75
	10	11.75	11.75	11.75	11.75	11.75	11.75
	11	11.75	11.75	11.75	11.75	11.75	11.75
	12	11.75	11.75	11.75	11.75	11.75	11.75
	13	11.75	7.50	7.50	NS	7.00	NS

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

Mode	IEEE 802.11 (Maximum in dBm) - Antenna 2a Tolerance (+0/-3 dB)						
	Channel	SISO				MIMO	
		b	g	n	ax SU	g/n	ax SU
2.4 GHz WIFI 20 MHz Bandwidth	1	12.00	12.00	12.00	12.00	12.00	12.00
	2	12.00	12.00	12.00	12.00	12.00	12.00
	3	12.00	12.00	12.00	12.00	12.00	12.00
	4	12.00	12.00	12.00	12.00	12.00	12.00
	5	12.00	12.00	12.00	12.00	12.00	12.00
	6	12.00	12.00	12.00	12.00	12.00	12.00
	7	12.00	12.00	12.00	12.00	12.00	12.00
	8	12.00	12.00	12.00	12.00	12.00	12.00
	9	12.00	12.00	12.00	12.00	12.00	12.00
	10	12.00	12.00	12.00	12.00	12.00	12.00
	11	12.00	12.00	12.00	12.00	12.00	12.00
	12	12.00	12.00	12.00	12.00	12.00	12.00
	13	12.00	7.50	7.50	NS	7.00	NS

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

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Mode	IEEE 802.11 (Maximum in dBm) - Antenna WF5B Tolerance (+0/-3 dB)							
	Channel	SISO			MIMO CDD		MIMO SDM	
		a	n/ac	ax SU	a/n/ac	ax SU	n/ac	ax SU
5 GHz WIFI 20 MHz Bandwidth	36	17.50	17.50	17.00	17.00	16.50	17.00	16.50
	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	16.25	16.25	16.25	16.25	16.25	16.25	16.25
	56	16.25	16.25	16.25	16.25	16.25	16.25	16.25
	60	16.25	16.25	16.25	16.25	16.25	16.25	16.25
	64	16.25	16.25	16.25	16.25	16.25	16.25	16.25
	100	16.50	16.50	16.50	16.50	16.50	16.50	16.50
	104	16.50	16.50	16.50	16.50	16.50	16.50	16.50
	108	16.50	16.50	16.50	16.50	16.50	16.50	16.50
	112	16.50	16.50	16.50	16.50	16.50	16.50	16.50
	116	16.50	16.50	16.50	16.50	16.50	16.50	16.50
	120	16.50	16.50	16.50	16.50	16.50	16.50	16.50
	124	16.50	16.50	16.50	16.50	16.50	16.50	16.50
	128	16.50	16.50	16.50	16.50	16.50	16.50	16.50
	132	16.50	16.50	16.50	16.50	16.50	16.50	16.50
	136	16.50	16.50	16.50	16.50	16.50	16.50	16.50
	140	16.50	16.50	16.50	16.50	16.00	16.50	16.00
	144	16.50	16.50	16.50	16.50	16.50	16.50	16.50
	149	17.50	17.50	17.50	17.50	17.50	17.50	17.50
5 GHz WIFI 40 MHz Bandwidth	153	17.50	17.50	17.50	17.50	17.50	17.50	17.50
	157	17.50	17.50	17.50	17.50	17.50	17.50	17.50
	161	17.50	17.50	17.50	17.50	17.50	17.50	17.50
	165	17.50	17.50	17.50	17.50	17.50	17.50	17.50
	38		14.50	14.25	14.50	14.00	14.50	14.00
	46		17.50	17.50	17.50	17.50	17.50	17.50
	54		16.25	16.25	16.25	16.25	16.25	16.25
	62		16.25	16.25	16.25	15.50	16.25	15.50
	102		15.50	15.00	15.50	14.50	15.50	14.50
	110		16.50	16.50	16.50	16.50	16.50	16.50
5 GHz WIFI 80 MHz Bandwidth	118		16.50	16.50	16.50	16.50	16.50	16.50
	126		16.50	16.50	16.50	16.50	16.50	16.50
	134		16.50	16.50	16.50	16.50	16.50	16.50
	142		16.50	16.50	16.50	16.50	16.50	16.50
	151		17.50	17.50	17.50	17.50	17.50	17.50
	159		17.50	17.50	17.50	17.50	17.50	17.50
5 GHz WIFI 160 MHz Bandwidth	42		14.00	14.00	14.00	14.00	14.00	14.00
	58		16.00	16.00	15.50	14.50	15.50	14.50
	106		15.25	14.50	15.00	14.25	15.00	14.25
	122		16.50	16.50	16.50	16.50	16.50	16.50
	138		16.50	16.50	16.50	16.50	16.50	16.50
5 GHz WIFI 160 MHz Bandwidth	155		17.50	17.50	17.50	17.50	17.50	17.50
	50		13.00	13.00	13.00	13.00	13.00	13.00
	114		12.50	12.50	12.50	12.50	12.50	12.50

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) - Antenna 4a Tolerance (+0/-3 dB)							
	Channel	SISO			MIMO CDD		MIMO SDM	
		a	n/ac	ax SU	a/n/ac	ax SU	n/ac	ax SU
5 GHz WIFI 20 MHz Bandwidth	36	7.75	7.75	7.75	7.75	7.75	7.75	7.75
	40	7.75	7.75	7.75	7.75	7.75	7.75	7.75
	44	7.75	7.75	7.75	7.75	7.75	7.75	7.75
	48	7.75	7.75	7.75	7.75	7.75	7.75	7.75
	52	8.00	8.00	8.00	8.00	8.00	8.00	8.00
	56	8.00	8.00	8.00	8.00	8.00	8.00	8.00
	60	8.00	8.00	8.00	8.00	8.00	8.00	8.00
	64	8.00	8.00	8.00	8.00	8.00	8.00	8.00
	100	9.00	9.00	9.00	9.00	9.00	9.00	9.00
	104	9.00	9.00	9.00	9.00	9.00	9.00	9.00
	108	9.00	9.00	9.00	9.00	9.00	9.00	9.00
	112	9.00	9.00	9.00	9.00	9.00	9.00	9.00
	116	9.00	9.00	9.00	9.00	9.00	9.00	9.00
	120	9.00	9.00	9.00	9.00	9.00	9.00	9.00
	124	9.00	9.00	9.00	9.00	9.00	9.00	9.00
	128	9.00	9.00	9.00	9.00	9.00	9.00	9.00
	132	9.00	9.00	9.00	9.00	9.00	9.00	9.00
	136	9.00	9.00	9.00	9.00	9.00	9.00	9.00
	140	9.00	9.00	9.00	9.00	9.00	9.00	9.00
	144	9.00	9.00	9.00	9.00	9.00	9.00	9.00
	149	9.25	9.25	9.25	9.25	9.25	9.25	9.25
	153	9.25	9.25	9.25	9.25	9.25	9.25	9.25
	157	9.25	9.25	9.25	9.25	9.25	9.25	9.25
	161	9.25	9.25	9.25	9.25	9.25	9.25	9.25
	165	9.25	9.25	9.25	9.25	9.25	9.25	9.25
5 GHz WIFI 40 MHz Bandwidth	38		7.75	7.75	7.75	7.75	7.75	7.75
	46		7.75	7.75	7.75	7.75	7.75	7.75
	54		8.00	8.00	8.00	8.00	8.00	8.00
	62		8.00	8.00	8.00	8.00	8.00	8.00
	102		9.00	9.00	9.00	9.00	9.00	9.00
	110		9.00	9.00	9.00	9.00	9.00	9.00
	118		9.00	9.00	9.00	9.00	9.00	9.00
	126		9.00	9.00	9.00	9.00	9.00	9.00
	134		9.00	9.00	9.00	9.00	9.00	9.00
	142		9.00	9.00	9.00	9.00	9.00	9.00
5 GHz WIFI 80 MHz Bandwidth	151		9.25	9.25	9.25	9.25	9.25	9.25
	159		9.25	9.25	9.25	9.25	9.25	9.25
	42		7.75	7.75	7.75	7.75	7.75	7.75
	58		8.00	8.00	8.00	8.00	8.00	8.00
	106		9.00	9.00	9.00	9.00	9.00	9.00
5 GHz WIFI 160 MHz Bandwidth	122		9.00	9.00	9.00	9.00	9.00	9.00
	138		9.00	9.00	9.00	9.00	9.00	9.00
	155		9.25	9.25	9.25	9.25	9.25	9.25
5 GHz WIFI 160 MHz Bandwidth	50		8.00	8.00	8.00	8.00	8.00	8.00
	114		9.00	9.00	9.00	9.00	9.00	9.00

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) - Antenna 2a Tolerance (+0/-3 dB)							
	Channel	SISO			MIMO CDD		MIMO SDM	
		a	n/ac	ax SU	a/n/ac	ax SU	n/ac	ax SU
5 GHz WIFI 20 MHz Bandwidth	36	8.50	8.50	8.50	8.50	8.50	8.50	8.50
	40	8.50	8.50	8.50	8.50	8.50	8.50	8.50
	44	8.50	8.50	8.50	8.50	8.50	8.50	8.50
	48	8.50	8.50	8.50	8.50	8.50	8.50	8.50
	52	7.50	7.50	7.50	7.50	7.50	7.50	7.50
	56	7.50	7.50	7.50	7.50	7.50	7.50	7.50
	60	7.50	7.50	7.50	7.50	7.50	7.50	7.50
	64	7.50	7.50	7.50	7.50	7.50	7.50	7.50
	100	9.25	9.25	9.25	9.25	9.25	9.25	9.25
	104	9.25	9.25	9.25	9.25	9.25	9.25	9.25
	108	9.25	9.25	9.25	9.25	9.25	9.25	9.25
	112	9.25	9.25	9.25	9.25	9.25	9.25	9.25
	116	9.25	9.25	9.25	9.25	9.25	9.25	9.25
	120	9.25	9.25	9.25	9.25	9.25	9.25	9.25
	124	9.25	9.25	9.25	9.25	9.25	9.25	9.25
	128	9.25	9.25	9.25	9.25	9.25	9.25	9.25
	132	9.25	9.25	9.25	9.25	9.25	9.25	9.25
	136	9.25	9.25	9.25	9.25	9.25	9.25	9.25
	140	9.25	9.25	9.25	9.25	9.25	9.25	9.25
	144	9.25	9.25	9.25	9.25	9.25	9.25	9.25
	149	10.00	10.00	10.00	10.00	10.00	10.00	10.00
5 GHz WIFI 40 MHz Bandwidth	153	10.00	10.00	10.00	10.00	10.00	10.00	10.00
	157	10.00	10.00	10.00	10.00	10.00	10.00	10.00
	161	10.00	10.00	10.00	10.00	10.00	10.00	10.00
	165	10.00	10.00	10.00	10.00	10.00	10.00	10.00
	38		8.50	8.50	8.50	8.50	8.50	8.50
	46		8.50	8.50	8.50	8.50	8.50	8.50
	54		7.50	7.50	7.50	7.50	7.50	7.50
	62		7.50	7.50	7.50	7.50	7.50	7.50
	102		9.25	9.25	9.25	9.25	9.25	9.25
	110		9.25	9.25	9.25	9.25	9.25	9.25
5 GHz WIFI 80 MHz Bandwidth	118		9.25	9.25	9.25	9.25	9.25	9.25
	126		9.25	9.25	9.25	9.25	9.25	9.25
	134		9.25	9.25	9.25	9.25	9.25	9.25
	142		9.25	9.25	9.25	9.25	9.25	9.25
	151		10.00	10.00	10.00	10.00	10.00	10.00
	159		10.00	10.00	10.00	10.00	10.00	10.00
5 GHz WIFI 160 MHz Bandwidth	42		8.50	8.50	8.50	8.50	8.50	8.50
	58		7.50	7.50	7.50	7.50	7.50	7.50
	106		9.25	9.25	9.25	9.25	9.25	9.25
	122		9.25	9.25	9.25	9.25	9.25	9.25
	138		9.25	9.25	9.25	9.25	9.25	9.25
	155		10.00	10.00	10.00	10.00	10.00	10.00
	50		7.50	7.50	7.50	7.50	7.50	7.50
	114		9.25	9.25	9.25	9.25	9.25	9.25

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

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Mode	Channel	IEEE 802.11 (Maximum in dBm) - Antenna WFSB			
		Tolerance (+0/-3 dB)			
		SISO		MIMO	
		a	ax (SU)	ax (SU) CDD	ax (SU) SDM
6 GHz WIFI LP (20MHz BW)	2	NS	NS	NS	NS
	1	6.75	6.75	1.25	4.25
	5	6.75	6.75	1.25	4.25
	9-29	6.75	6.75	1.25	4.25
	33-61	6.00	6.00	0.25	3.25
	65-85	6.25	6.25	0.25	3.25
	89	6.25	6.25	0.25	3.25
	93	6.25	6.25	0.25	3.25
	97-113	6.25	6.25	0.25	3.25
	117-181	5.75	5.75	0.00	3.00
	185	5.00	5.00	-0.25	2.75
	189-225	5.00	5.00	-0.25	2.75
	229	5.00	5.00	-0.25	2.75
	233	5.00	5.00	-0.25	2.75
6 GHz WIFI LP (40MHz BW)	3		9.75	4.25	7.25
	11		9.75	4.25	7.25
	19-27		9.75	4.25	7.25
	35-59		9.00	3.25	6.25
	67-75		9.25	3.25	6.25
	83		9.25	3.25	6.25
	91		9.25	3.25	6.25
	99-107		9.25	3.25	6.25
	115		8.75	3.00	6.00
	123-179		8.75	3.00	6.00
	187		8.00	2.75	5.75
	195-219		8.00	2.75	5.75
6 GHz WIFI LP (80MHz BW)	227		8.00	2.75	5.75
	7		12.75	7.25	10.25
	23		12.75	7.25	10.25
	39-55		12.00	6.25	9.25
	71		12.25	6.25	9.25
	87		12.25	6.25	9.25
	103		12.25	6.25	9.25
	119		11.75	6.00	9.00
	135-167		11.75	6.00	9.00
	183		11.00	5.75	8.75
	199		11.00	5.75	8.75
6 GHz WIFI LP (160MHz BW)	215		11.00	5.75	8.75
	15		15.25	9.75	12.75
	47		14.50	8.75	11.75
	79		14.75	8.75	11.75
	111		14.25	8.50	11.50
	143		13.75	8.50	11.50
	175		13.50	8.25	11.25
	207		13.50	8.25	11.25

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

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Mode	Channel	IEEE 802.11 (Maximum in dBm) - Antenna WFSB			
		Tolerance (+0/-3 dB)			
		SISO		MIMO	
		a	ax (SU)	ax (SU) CDD	ax (SU) SDM
6 GHz WIFI SP (20MHz BW)	2	NS	NS	NS	NS
	1	15.25	15.25	15.25	15.25
	5	15.25	15.25	15.25	15.25
	9-29	15.25	15.25	15.25	15.25
	33-61	15.25	15.25	15.25	15.25
	65-85	15.50	15.50	15.50	15.50
	89	15.50	15.50	15.50	15.50
	93	15.50	15.50	15.50	15.50
	97-113	NS	NS	NS	NS
	117-181	13.75	13.75	13.75	13.75
	185	NS	NS	NS	NS
	189-225	NS	NS	NS	NS
	229	NS	NS	NS	NS
	233	NS	NS	NS	NS
6 GHz WIFI SP (40MHz BW)	3		15.25	15.25	15.25
	11		15.25	15.25	15.25
	19-27		15.25	15.25	15.25
	35-59		15.25	15.25	15.25
	67-75		15.50	15.50	15.50
	83		15.50	15.50	15.50
	91		15.50	15.50	15.50
	99-107		NS	NS	NS
	115		NS	NS	NS
	123-179		13.75	13.75	13.75
	187		NS	NS	NS
	195-219		NS	NS	NS
	227		NS	NS	NS
6 GHz WIFI SP (80MHz BW)	7		15.25	15.25	15.25
	23		15.25	15.25	15.25
	39-55		15.25	15.25	15.25
	71		15.50	15.50	15.50
	87		15.50	15.50	15.50
	103		NS	NS	NS
	119		NS	NS	NS
	135-167		13.75	13.75	13.75
	183		NS	NS	NS
	199		NS	NS	NS
	215		NS	NS	NS
6 GHz WIFI SP (160MHz BW)	15		15.25	15.25	15.25
	47		15.25	15.25	15.25
	79		15.50	15.50	15.50
	111		NS	NS	NS
	143		13.75	13.75	13.75
	175		NS	NS	NS
	207		NS	NS	NS

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

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Mode	Channel	IEEE 802.11 (Maximum in dBm) - Antenna 4a			
		Tolerance (+0/-3 dB)			
		SISO		MIMO	
		a	ax (SU)	ax (SU) CDD	ax (SU) SDM
6 GHz WIFI LP (20MHz BW)	2	NS	NS	NS	NS
	1	6.75	6.75	1.25	4.25
	5	6.75	6.75	1.25	4.25
	9-29	6.75	6.75	1.25	4.25
	33-61	6.00	6.00	0.25	3.25
	65-85	6.25	6.25	0.25	3.25
	89	6.25	6.25	0.25	3.25
	93	6.25	6.25	0.25	3.25
	97-113	6.25	6.25	0.25	3.25
	117-181	5.75	5.75	0.00	3.00
	185	5.00	5.00	-0.25	2.75
	189-225	5.00	5.00	-0.25	2.75
	229	5.00	5.00	-0.25	2.75
	233	5.00	5.00	-0.25	2.75
6 GHz WIFI LP (40MHz BW)	3		7.75	4.25	7.25
	11		7.75	4.25	7.25
	19-27		7.75	4.25	7.25
	35-59		7.75	3.25	6.25
	67-75		9.00	3.25	6.25
	83		9.00	3.25	6.25
	91		9.00	3.25	6.25
	99-107		8.50	3.25	6.25
	115		8.50	3.00	6.00
	123-179		8.25	3.00	6.00
	187		8.00	2.75	5.75
	195-219		8.00	2.75	5.75
6 GHz WIFI LP (80MHz BW)	227		8.00	2.75	5.75
	7		7.75	7.25	7.75
	23		7.75	7.25	7.75
	39-55		7.75	6.25	7.75
	71		9.00	6.25	9.00
	87		9.00	6.25	9.00
	103		8.50	6.25	8.50
	119		8.50	6.00	8.50
	135-167		8.25	6.00	8.25
	183		8.25	5.75	8.25
	199		8.00	5.75	8.00
	215		8.00	5.75	8.00
6 GHz WIFI LP (160MHz BW)	15		7.75	7.75	7.75
	47		7.75	7.75	7.75
	79		9.00	8.75	9.00
	111		8.50	8.50	8.50
	143		8.25	8.25	8.25
	175		8.25	8.25	8.25
	207		8.00	8.00	8.00

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

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Mode	Channel	IEEE 802.11 (Maximum in dBm) - Antenna 4a			
		Tolerance (+0/-3 dB)			
		SISO		MIMO	
		a	ax (SU)	ax (SU) CDD	ax (SU) SDM
6 GHz WIFI SP (20MHz BW)	2	NS	NS	NS	NS
	1	7.75	7.75	7.75	7.75
	5	7.75	7.75	7.75	7.75
	9-29	7.75	7.75	7.75	7.75
	33-61	7.75	7.75	7.75	7.75
	65-85	9.00	9.00	9.00	9.00
	89	9.00	9.00	9.00	9.00
	93	9.00	9.00	9.00	9.00
	97-113	NS	NS	NS	NS
	117-181	8.25	8.25	8.25	8.25
	185	NS	NS	NS	NS
	189-225	NS	NS	NS	NS
	229	NS	NS	NS	NS
	233	NS	NS	NS	NS
6 GHz WIFI SP (40MHz BW)	3		7.75	7.75	7.75
	11		7.75	7.75	7.75
	19-27		7.75	7.75	7.75
	35-59		7.75	7.75	7.75
	67-75		9.00	9.00	9.00
	83		9.00	9.00	9.00
	91		9.00	9.00	9.00
	99-107		NS	NS	NS
	115		NS	NS	NS
	123-179		8.25	8.25	8.25
	187		NS	NS	NS
	195-219		NS	NS	NS
	227		NS	NS	NS
6 GHz WIFI SP (80MHz BW)	7		7.75	7.75	7.75
	23		7.75	7.75	7.75
	39-55		7.75	7.75	7.75
	71		9.00	9.00	9.00
	87		9.00	9.00	9.00
	103		NS	NS	NS
	119		NS	NS	NS
	135-167		8.25	8.25	8.25
	183		NS	NS	NS
	199		NS	NS	NS
	215		NS	NS	NS
6 GHz WIFI SP (160MHz BW)	15		7.75	7.75	7.75
	47		7.75	7.75	7.75
	79		9.00	9.00	9.00
	111		NS	NS	NS
	143		8.25	8.25	8.25
	175		NS	NS	NS
	207		NS	NS	NS

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

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Mode	Channel	IEEE 802.11 (Maximum in dBm) - Antenna 2a			
		Tolerance (+0/-3 dB)			
		SISO		MIMO	
		a	ax (SU)	ax (SU) CDD	ax (SU) SDM
6 GHz WIFI LP (20MHz BW)	2	NS	NS	NS	NS
	1	6.75	6.75	1.25	4.25
	5	6.75	6.75	1.25	4.25
	9-29	6.75	6.75	1.25	4.25
	33-61	6.00	6.00	0.25	3.25
	65-85	6.25	6.25	0.25	3.25
	89	6.25	6.25	0.25	3.25
	93	6.25	6.25	0.25	3.25
	97-113	6.25	6.25	0.25	3.25
	117-181	5.75	5.75	0.00	3.00
	185	5.00	5.00	-0.25	2.75
	189-225	5.00	5.00	-0.25	2.75
	229	5.00	5.00	-0.25	2.75
	233	5.00	5.00	-0.25	2.75
6 GHz WIFI LP (40MHz BW)	3		9.75	4.25	7.25
	11		9.75	4.25	7.25
	19-27		9.75	4.25	7.25
	35-59		9.00	3.25	6.25
	67-75		8.25	3.25	6.25
	83		8.25	3.25	6.25
	91		8.25	3.25	6.25
	99-107		7.75	3.25	6.25
	115		7.75	3.00	6.00
	123-179		7.75	3.00	6.00
	187		8.00	2.75	5.75
	195-219		8.00	2.75	5.75
6 GHz WIFI LP (80MHz BW)	227		8.00	2.75	5.75
	7		10.00	7.25	10.00
	23		10.00	7.25	10.00
	39-55		10.00	6.25	9.25
	71		8.25	6.25	8.25
	87		8.25	6.25	8.25
	103		7.75	6.25	7.75
	119		7.75	6.00	7.75
	135-167		9.75	6.00	9.00
	183		9.75	5.75	8.75
	199		8.25	5.75	8.25
6 GHz WIFI LP (160MHz BW)	215		8.25	5.75	8.25
	15		10.00	9.75	10.00
	47		10.00	8.75	10.00
	79		8.25	8.25	8.25
	111		7.75	7.75	7.75
	143		9.75	8.50	9.75
	175		9.75	8.25	9.75
	207		8.25	8.25	8.25

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

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Mode	Channel	IEEE 802.11 (Maximum in dBm) - Antenna 2a			
		Tolerance (+0/-3 dB)			
		SISO		MIMO	
		a	ax (SU)	ax (SU) CDD	ax (SU) SDM
6 GHz WIFI SP (20MHz BW)	2	NS	NS	NS	NS
	1	10.00	10.00	10.00	10.00
	5	10.00	10.00	10.00	10.00
	9-29	10.00	10.00	10.00	10.00
	33-61	10.00	10.00	10.00	10.00
	65-85	8.25	8.25	8.25	8.25
	89	8.25	8.25	8.25	8.25
	93	8.25	8.25	8.25	8.25
	97-113	NS	NS	NS	NS
	117-181	7.75	7.75	7.75	7.75
	185	NS	NS	NS	NS
	189-225	NS	NS	NS	NS
	229	NS	NS	NS	NS
	233	NS	NS	NS	NS
6 GHz WIFI SP (40MHz BW)	3		10.00	10.00	10.00
	11		10.00	10.00	10.00
	19-27		10.00	10.00	10.00
	35-59		10.00	10.00	10.00
	67-75		8.25	8.25	8.25
	83		8.25	8.25	8.25
	91		8.25	8.25	8.25
	99-107		NS	NS	NS
	115		NS	NS	NS
	123-179		7.75	7.75	7.75
	187		NS	NS	NS
	195-219		NS	NS	NS
	227		NS	NS	NS
6 GHz WIFI SP (80MHz BW)	7		10.00	10.00	10.00
	23		10.00	10.00	10.00
	39-55		10.00	10.00	10.00
	71		8.25	8.25	8.25
	87		8.25	8.25	8.25
	103		NS	NS	NS
	119		NS	NS	NS
	135-167		9.75	9.75	9.75
	183		NS	NS	NS
	199		NS	NS	NS
	215		NS	NS	NS
6 GHz WIFI SP (160MHz BW)	15		10.00	10.00	10.00
	47		10.00	10.00	10.00
	79		8.25	8.25	8.25
	111		NS	NS	NS
	143		9.75	9.75	9.75
	175		NS	NS	NS
	207		NS	NS	NS

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

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1.4.3

Reduced WLAN Time-Averaged Output Power

*The tolerances specified in the tables in this report refers to conducted tolerances.

Table below is applicable in the following conditions:

-Simultaneous conditions with Licensed Bands Antenna 3/4b and wPT active

-Simultaneous conditions with Inter-Band ULCA and wPT active

Mode	IEEE 802.11 (Maximum in dBm) - Antenna 4a Tolerance (+0/-3 dB)						
	Channel	SISO				MIMO	
		b	g	n	ax SU	g/n	ax SU
2.4 GHz WIFI 20 MHz Bandwidth	1	6.25	6.25	6.25	6.25	6.25	6.25
	2	6.25	6.25	6.25	6.25	6.25	6.25
	3	6.25	6.25	6.25	6.25	6.25	6.25
	4	6.25	6.25	6.25	6.25	6.25	6.25
	5	6.25	6.25	6.25	6.25	6.25	6.25
	6	6.25	6.25	6.25	6.25	6.25	6.25
	7	6.25	6.25	6.25	6.25	6.25	6.25
	8	6.25	6.25	6.25	6.25	6.25	6.25
	9	6.25	6.25	6.25	6.25	6.25	6.25
	10	6.25	6.25	6.25	6.25	6.25	6.25
	11	6.25	6.25	6.25	6.25	6.25	6.25
	12	6.25	6.25	6.25	6.25	6.25	6.25
	13	6.25	6.25	6.25	NS	6.25	NS

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

Table below is applicable in the following conditions:

-Simultaneous conditions with Licensed Bands Antenna 2b and wPT active

-Simultaneous conditions with Inter-Band ULCA and wPT active

Mode	IEEE 802.11 (Maximum in dBm) - Antenna 2a Tolerance (+0/-3 dB)						
	Channel	SISO				MIMO	
		b	g	n	ax SU	g/n	ax SU
2.4 GHz WIFI 20 MHz Bandwidth	1	6.50	6.50	6.50	6.50	6.50	6.50
	2	6.50	6.50	6.50	6.50	6.50	6.50
	3	6.50	6.50	6.50	6.50	6.50	6.50
	4	6.50	6.50	6.50	6.50	6.50	6.50
	5	6.50	6.50	6.50	6.50	6.50	6.50
	6	6.50	6.50	6.50	6.50	6.50	6.50
	7	6.50	6.50	6.50	6.50	6.50	6.50
	8	6.50	6.50	6.50	6.50	6.50	6.50
	9	6.50	6.50	6.50	6.50	6.50	6.50
	10	6.50	6.50	6.50	6.50	6.50	6.50
	11	6.50	6.50	6.50	6.50	6.50	6.50
	12	6.50	6.50	6.50	6.50	6.50	6.50
	13	6.50	6.50	6.50	NS	6.50	NS

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

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Table below is applicable in the following conditions:

- Simultaneous conditions with Licensed Bands Antenna 3/4b and wPT active
- Simultaneous conditions with Inter-Band ULCA and wPT active

Mode	IEEE 802.11 (Maximum in dBm) - Antenna 4a Tolerance (+0/-3 dB)							
	Channel	SISO			MIMO CDD		MIMO SDM	
		a	n/ac	ax SU	a/n/ac	ax SU	n/ac	ax SU
5 GHz WIFI 20 MHz Bandwidth	36	2.25	2.25	2.25	2.25	2.25	2.25	2.25
	40	2.25	2.25	2.25	2.25	2.25	2.25	2.25
	44	2.25	2.25	2.25	2.25	2.25	2.25	2.25
	48	2.25	2.25	2.25	2.25	2.25	2.25	2.25
	52	2.50	2.50	2.50	2.50	2.50	2.50	2.50
	56	2.50	2.50	2.50	2.50	2.50	2.50	2.50
	60	2.50	2.50	2.50	2.50	2.50	2.50	2.50
	64	2.50	2.50	2.50	2.50	2.50	2.50	2.50
	100	3.50	3.50	3.50	3.50	3.50	3.50	3.50
	104	3.50	3.50	3.50	3.50	3.50	3.50	3.50
	108	3.50	3.50	3.50	3.50	3.50	3.50	3.50
	112	3.50	3.50	3.50	3.50	3.50	3.50	3.50
	116	3.50	3.50	3.50	3.50	3.50	3.50	3.50
	120	3.50	3.50	3.50	3.50	3.50	3.50	3.50
	124	3.50	3.50	3.50	3.50	3.50	3.50	3.50
	128	3.50	3.50	3.50	3.50	3.50	3.50	3.50
	132	3.50	3.50	3.50	3.50	3.50	3.50	3.50
	136	3.50	3.50	3.50	3.50	3.50	3.50	3.50
	140	3.50	3.50	3.50	3.50	3.50	3.50	3.50
	144	3.50	3.50	3.50	3.50	3.50	3.50	3.50
	149	3.75	3.75	3.75	3.75	3.75	3.75	3.75
	153	3.75	3.75	3.75	3.75	3.75	3.75	3.75
	157	3.75	3.75	3.75	3.75	3.75	3.75	3.75
	161	3.75	3.75	3.75	3.75	3.75	3.75	3.75
	165	3.75	3.75	3.75	3.75	3.75	3.75	3.75
5 GHz WIFI 40 MHz Bandwidth	38		2.25	2.25	2.25	2.25	2.25	2.25
	46		2.25	2.25	2.25	2.25	2.25	2.25
	54		2.50	2.50	2.50	2.50	2.50	2.50
	62		2.50	2.50	2.50	2.50	2.50	2.50
	102		3.50	3.50	3.50	3.50	3.50	3.50
	110		3.50	3.50	3.50	3.50	3.50	3.50
	118		3.50	3.50	3.50	3.50	3.50	3.50
	126		3.50	3.50	3.50	3.50	3.50	3.50
	134		3.50	3.50	3.50	3.50	3.50	3.50
	142		3.50	3.50	3.50	3.50	3.50	3.50
	151		3.75	3.75	3.75	3.75	3.75	3.75
5 GHz WIFI 80 MHz Bandwidth	159		3.75	3.75	3.75	3.75	3.75	3.75
	42		2.25	2.25	2.25	2.25	2.25	2.25
	58		2.50	2.50	2.50	2.50	2.50	2.50
	106		3.50	3.50	3.50	3.50	3.50	3.50
	122		3.50	3.50	3.50	3.50	3.50	3.50
	138		3.50	3.50	3.50	3.50	3.50	3.50
5 GHz WIFI 160 MHz Bandwidth	155		3.75	3.75	3.75	3.75	3.75	3.75
	50		2.25	2.25	2.25	2.25	2.25	2.25
	114		3.50	3.50	3.50	3.50	3.50	3.50

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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Table below is applicable in the following conditions:

- Simultaneous conditions with Licensed Bands Antenna 2b and wPT active
- Simultaneous conditions with Inter-Band ULCA and wPT active

Mode	IEEE 802.11 (Maximum in dBm) - Antenna 2a Tolerance (+0/-3 dB)							
	Channel	SISO			MIMO CDD		MIMO SDM	
		a	n/ac	ax SU	a/n/ac	ax SU	n/ac	ax SU
5 GHz WIFI 20 MHz Bandwidth	36	3.00	3.00	3.00	3.00	3.00	3.00	3.00
	40	3.00	3.00	3.00	3.00	3.00	3.00	3.00
	44	3.00	3.00	3.00	3.00	3.00	3.00	3.00
	48	3.00	3.00	3.00	3.00	3.00	3.00	3.00
	52	2.00	2.00	2.00	2.00	2.00	2.00	2.00
	56	2.00	2.00	2.00	2.00	2.00	2.00	2.00
	60	2.00	2.00	2.00	2.00	2.00	2.00	2.00
	64	2.00	2.00	2.00	2.00	2.00	2.00	2.00
	100	3.75	3.75	3.75	3.75	3.75	3.75	3.75
	104	3.75	3.75	3.75	3.75	3.75	3.75	3.75
	108	3.75	3.75	3.75	3.75	3.75	3.75	3.75
	112	3.75	3.75	3.75	3.75	3.75	3.75	3.75
	116	3.75	3.75	3.75	3.75	3.75	3.75	3.75
	120	3.75	3.75	3.75	3.75	3.75	3.75	3.75
	124	3.75	3.75	3.75	3.75	3.75	3.75	3.75
	128	3.75	3.75	3.75	3.75	3.75	3.75	3.75
	132	3.75	3.75	3.75	3.75	3.75	3.75	3.75
	136	3.75	3.75	3.75	3.75	3.75	3.75	3.75
	140	3.75	3.75	3.75	3.75	3.75	3.75	3.75
	144	3.75	3.75	3.75	3.75	3.75	3.75	3.75
	149	4.50	4.50	4.50	4.50	4.50	4.50	4.50
5 GHz WIFI 40 MHz Bandwidth	153	4.50	4.50	4.50	4.50	4.50	4.50	4.50
	157	4.50	4.50	4.50	4.50	4.50	4.50	4.50
	161	4.50	4.50	4.50	4.50	4.50	4.50	4.50
	165	4.50	4.50	4.50	4.50	4.50	4.50	4.50
	38		3.00	3.00	3.00	3.00	3.00	3.00
	46		3.00	3.00	3.00	3.00	3.00	3.00
	54		2.00	2.00	2.00	2.00	2.00	2.00
	62		2.00	2.00	2.00	2.00	2.00	2.00
	102		3.75	3.75	3.75	3.75	3.75	3.75
	110		3.75	3.75	3.75	3.75	3.75	3.75
5 GHz WIFI 80 MHz Bandwidth	118		3.75	3.75	3.75	3.75	3.75	3.75
	126		3.75	3.75	3.75	3.75	3.75	3.75
	134		3.75	3.75	3.75	3.75	3.75	3.75
	142		3.75	3.75	3.75	3.75	3.75	3.75
	151		4.50	4.50	4.50	4.50	4.50	4.50
	159		4.50	4.50	4.50	4.50	4.50	4.50
5 GHz WIFI 160 MHz Bandwidth	42		3.00	3.00	3.00	3.00	3.00	3.00
	58		2.00	2.00	2.00	2.00	2.00	2.00
	106		3.75	3.75	3.75	3.75	3.75	3.75
	122		3.75	3.75	3.75	3.75	3.75	3.75
	138		3.75	3.75	3.75	3.75	3.75	3.75
	155		4.50	4.50	4.50	4.50	4.50	4.50
	50		3.00	3.00	3.00	3.00	3.00	3.00
	114		3.75	3.75	3.75	3.75	3.75	3.75

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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Table below is applicable in the following conditions:

- Simultaneous conditions with Licensed Bands Antenna 3/4b and wPT active
- Simultaneous conditions with Inter-Band ULCA and wPT active

Mode	Channel	IEEE 802.11 (Maximum in dBm) - Antenna 4a			
		Tolerance (+0/-3 dB)			
		SISO		MIMO	
		a	ax (SU)	ax (SU) CDD	ax (SU) SDM
6 GHz WIFI LP (20MHz BW)	2	NS	NS	NS	NS
	1	2.25	2.25	1.25	2.25
	5	2.25	2.25	1.25	2.25
	9-29	2.25	2.25	1.25	2.25
	33-61	2.25	2.25	0.25	2.25
	65-85	3.50	3.50	0.25	3.25
	89	3.50	3.50	0.25	3.25
	93	3.50	3.50	0.25	3.25
	97-113	3.00	3.00	0.25	3.00
	117-181	2.75	2.75	0.00	2.75
	185	2.75	2.75	-0.25	2.75
	189-225	2.50	2.50	-0.25	2.50
	229	2.50	2.50	-0.25	2.50
	233	2.50	2.50	-0.25	2.50
6 GHz WIFI LP (40MHz BW)	3		2.25	2.25	2.25
	11		2.25	2.25	2.25
	19-27		2.25	2.25	2.25
	35-59		2.25	2.25	2.25
	67-75		3.50	3.25	3.50
	83		3.50	3.25	3.50
	91		3.50	3.25	3.50
	99-107		3.00	3.00	3.00
	115		2.75	2.75	2.75
	123-179		2.75	2.75	2.75
	187		2.50	2.50	2.50
	195-219		2.50	2.50	2.50
	227		2.50	2.50	2.50
6 GHz WIFI LP (80MHz BW)	7		2.25	2.25	2.25
	23		2.25	2.25	2.25
	39-55		2.25	2.25	2.25
	71		3.50	3.50	3.50
	87		3.50	3.50	3.50
	103		3.00	3.00	3.00
	119		2.75	2.75	2.75
	135-167		2.75	2.75	2.75
	183		2.50	2.50	2.50
	199		2.50	2.50	2.50
	215		2.50	2.50	2.50
6 GHz WIFI LP (160MHz BW)	15		2.25	2.25	2.25
	47		2.25	2.25	2.25
	79		3.50	3.50	3.50
	111		3.00	3.00	3.00
	143		2.75	2.75	2.75
	175		2.75	2.75	2.75
	207		2.50	2.50	2.50

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

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Mode	Channel	IEEE 802.11 (Maximum in dBm) - Antenna 4a			
		Tolerance (+0/-3 dB)			
		SISO		MIMO	
		a	ax (SU)	ax (SU) CDD	ax (SU) SDM
6 GHz WIFI SP (20MHz BW)	2	NS	NS	NS	NS
	1	2.25	2.25	2.25	2.25
	5	2.25	2.25	2.25	2.25
	9-29	2.25	2.25	2.25	2.25
	33-61	2.25	2.25	2.25	2.25
	65-85	3.50	3.50	3.50	3.50
	89	3.50	3.50	3.50	3.50
	93	3.50	3.50	3.50	3.50
	97-113	NS	NS	NS	NS
	117-181	2.75	2.75	2.75	2.75
	185	NS	NS	NS	NS
	189-225	NS	NS	NS	NS
	229	NS	NS	NS	NS
	233	NS	NS	NS	NS
6 GHz WIFI SP (40MHz BW)	3		2.25	2.25	2.25
	11		2.25	2.25	2.25
	19-27		2.25	2.25	2.25
	35-59		2.25	2.25	2.25
	67-75		3.50	3.50	3.50
	83		3.50	3.50	3.50
	91		3.50	3.50	3.50
	99-107		NS	NS	NS
	115		NS	NS	NS
	123-179		2.75	2.75	2.75
	187		NS	NS	NS
	195-219		NS	NS	NS
6 GHz WIFI SP (80MHz BW)	7		2.25	2.25	2.25
	23		2.25	2.25	2.25
	39-55		2.25	2.25	2.25
	71		3.50	3.50	3.50
	87		3.50	3.50	3.50
	103		NS	NS	NS
	119		NS	NS	NS
	135-167		2.75	2.75	2.75
	183		NS	NS	NS
	199		NS	NS	NS
	215		NS	NS	NS
6 GHz WIFI SP (160MHz BW)	15		2.25	2.25	2.25
	47		2.25	2.25	2.25
	79		3.50	3.50	3.50
	111		NS	NS	NS
	143		2.75	2.75	2.75
	175		NS	NS	NS
	207		NS	NS	NS

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

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Table below is applicable in the following conditions:

- Simultaneous conditions with Licensed Bands Antenna 2b and wPT active
- Simultaneous conditions with Inter-Band ULCA and wPT active

Mode	Channel	IEEE 802.11 (Maximum in dBm) - Antenna 2a			
		Tolerance (+0/-3 dB)			
		SISO		MIMO	
		a	ax (SU)	ax (SU) CDD	ax (SU) SDM
6 GHz WIFI LP (20MHz BW)	2	NS	NS	NS	NS
	1	4.50	4.50	1.25	4.25
	5	4.50	4.50	1.25	4.25
	9-29	4.50	4.50	1.25	4.25
	33-61	4.50	4.50	0.25	3.25
	65-85	2.75	2.75	0.25	2.75
	89	2.75	2.75	0.25	2.75
	93	2.75	2.75	0.25	2.75
	97-113	2.25	2.25	0.25	2.25
	117-181	4.25	4.25	0.00	3.00
	185	4.25	4.25	-0.25	2.75
	189-225	2.75	2.75	-0.25	2.75
	229	2.75	2.75	-0.25	2.75
	233	2.75	2.75	-0.25	2.75
6 GHz WIFI LP (40MHz BW)	3		4.50	4.25	4.50
	11		4.50	4.25	4.50
	19-27		4.50	4.25	4.50
	35-59		4.50	3.25	4.50
	67-75		2.75	2.75	2.75
	83		2.75	2.75	2.75
	91		2.75	2.75	2.75
	99-107		2.25	2.25	2.25
	115		4.25	3.00	4.25
	123-179		4.25	3.00	4.25
	187		2.75	2.75	2.75
	195-219		2.75	2.75	2.75
	227		2.75	2.75	2.75
6 GHz WIFI LP (80MHz BW)	7		4.50	4.50	4.50
	23		4.50	4.50	4.50
	39-55		4.50	4.50	4.50
	71		2.75	2.75	2.75
	87		2.75	2.75	2.75
	103		2.25	2.25	2.25
	119		4.25	4.25	4.25
	135-167		4.25	4.25	4.25
	183		2.75	2.75	2.75
	199		2.75	2.75	2.75
6 GHz WIFI LP (160MHz BW)	15		4.50	4.50	4.50
	47		4.50	4.50	4.50
	79		2.75	2.75	2.75
	111		2.25	2.25	2.25
	143		4.25	4.25	4.25
	175		4.25	4.25	4.25
	207		2.75	2.75	2.75

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

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Mode	Channel	IEEE 802.11 (Maximum in dBm) - Antenna 2a			
		Tolerance (+0/-3 dB)			
		SISO		MIMO	
		a	ax (SU)	ax (SU) CDD	ax (SU) SDM
6 GHz WIFI SP (20MHz BW)	2	NS	NS	NS	NS
	1	4.50	4.50	4.50	4.50
	5	4.50	4.50	4.50	4.50
	9-29	4.50	4.50	4.50	4.50
	33-61	4.50	4.50	4.50	4.50
	65-85	2.75	2.75	2.75	2.75
	89	2.75	2.75	2.75	2.75
	93	2.75	2.75	2.75	2.75
	97-113	NS	NS	NS	NS
	117-181	4.25	4.25	4.25	4.25
	185	NS	NS	NS	NS
	189-225	NS	NS	NS	NS
	229	NS	NS	NS	NS
	233	NS	NS	NS	NS
6 GHz WIFI SP (40MHz BW)	3		4.50	4.50	4.50
	11		4.50	4.50	4.50
	19-27		4.50	4.50	4.50
	35-59		4.50	4.50	4.50
	67-75		2.75	2.75	2.75
	83		2.75	2.75	2.75
	91		2.75	2.75	2.75
	99-107		NS	NS	NS
	115		NS	NS	NS
	123-179		4.25	4.25	4.25
	187		NS	NS	NS
	195-219		NS	NS	NS
	227		NS	NS	NS
6 GHz WIFI SP (80MHz BW)	7		4.50	4.50	4.50
	23		4.50	4.50	4.50
	39-55		4.50	4.50	4.50
	71		2.75	2.75	2.75
	87		2.75	2.75	2.75
	103		NS	NS	NS
	119		NS	NS	NS
	135-167		4.25	4.25	4.25
	183		NS	NS	NS
	199		NS	NS	NS
	215		NS	NS	NS
6 GHz WIFI SP (160MHz BW)	15		4.50	4.50	4.50
	47		4.50	4.50	4.50
	79		2.75	2.75	2.75
	111		NS	NS	NS
	143		4.25	4.25	4.25
	175		NS	NS	NS
	207		NS	NS	NS

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

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1.4.1

Bluetooth Maximum Output Power

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 4a	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 4a
Bluetooth BDR	Maximum	12.50	11.00
	Nominal	11.00	9.50
Bluetooth EDR	Maximum	12.50	7.00
	Nominal	11.00	5.50
Bluetooth LE	Maximum	12.50	11.00
	Nominal	11.00	9.50
Bluetooth HDR4	Maximum	10.00	4.50
	Nominal	8.50	3.00
Bluetooth HDR8	Maximum	10.00	4.50
	Nominal	8.50	3.00

Mode / Band		Modulated Average (ePA) TXBF (dBm) Antenna 4a	Modulated Average (iPA) TXBF (dBm) Antenna 4a
Bluetooth BDR	Maximum	12.50	11.00
	Nominal	11.00	9.50
Bluetooth EDR	Maximum	12.50	7.00
	Nominal	11.00	5.50
Bluetooth LE	Maximum	12.50	11.00
	Nominal	11.00	9.50
Bluetooth HDR4	Maximum	10.00	4.50
	Nominal	8.50	3.00
Bluetooth HDR8	Maximum	10.00	4.50
	Nominal	8.50	3.00

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

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Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 2a	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 2a
Bluetooth BDR	Maximum	12.50	10.00
	Nominal	11.00	8.50
Bluetooth EDR	Maximum	12.50	6.00
	Nominal	11.00	4.50
Bluetooth LE	Maximum	12.50	10.00
	Nominal	11.00	8.50
Bluetooth HDR4	Maximum	10.00	3.50
	Nominal	8.50	2.00
Bluetooth HDR8	Maximum	10.00	3.50
	Nominal	8.50	2.00

Mode / Band		Modulated Average (ePA) TXBF (dBm) Antenna 2a	Modulated Average (iPA) TXBF (dBm) Antenna 2a
Bluetooth BDR	Maximum	12.50	10.00
	Nominal	11.00	8.50
Bluetooth EDR	Maximum	12.50	6.00
	Nominal	11.00	4.50
Bluetooth LE	Maximum	12.50	10.00
	Nominal	11.00	8.50
Bluetooth HDR4	Maximum	10.00	3.50
	Nominal	8.50	2.00
Bluetooth HDR8	Maximum	10.00	3.50
	Nominal	8.50	2.00

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

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1.4.1 Bluetooth Reduced Output Power

Below table is applicable in the following conditions:

-Simultaneous conditions with Licensed Bands Antenna 3/4b and WPT active

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 4a	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 4a
Bluetooth BDR	Maximum	9.50	9.50
	Nominal	8.00	8.00
Bluetooth EDR	Maximum	9.50	7.00
	Nominal	8.00	5.50
Bluetooth LE	Maximum	9.50	9.50
	Nominal	8.00	8.00
Bluetooth HDR4	Maximum	9.50	4.50
	Nominal	8.00	3.00
Bluetooth HDR8	Maximum	9.50	4.50
	Nominal	8.00	3.00

Mode / Band		Modulated Average (ePA) TXBF (dBm) Antenna 4a	Modulated Average (iPA) TXBF (dBm) Antenna 4a
Bluetooth BDR	Maximum	9.50	9.50
	Nominal	8.00	8.00
Bluetooth EDR	Maximum	9.50	7.00
	Nominal	8.00	5.50
Bluetooth LE	Maximum	9.50	9.50
	Nominal	8.00	8.00
Bluetooth HDR4	Maximum	9.50	4.50
	Nominal	8.00	3.00
Bluetooth HDR8	Maximum	9.50	4.50
	Nominal	8.00	3.00

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

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Below table is applicable in the following conditions:

-Simultaneous conditions with Licensed Bands Antenna 2b and wPT active

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 2a	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 2a
Bluetooth BDR	Maximum	9.50	9.50
	Nominal	8.00	8.00
Bluetooth EDR	Maximum	9.50	6.00
	Nominal	8.00	4.50
Bluetooth LE	Maximum	9.50	9.50
	Nominal	8.00	8.00
Bluetooth HDR4	Maximum	9.50	3.50
	Nominal	8.00	2.00
Bluetooth HDR8	Maximum	9.50	3.50
	Nominal	8.00	2.00

Mode / Band		Modulated Average (ePA) TXBF (dBm) Antenna 2a	Modulated Average (iPA) TXBF (dBm) Antenna 2a
Bluetooth BDR	Maximum	9.50	9.50
	Nominal	8.00	8.00
Bluetooth EDR	Maximum	9.50	6.00
	Nominal	8.00	4.50
Bluetooth LE	Maximum	9.50	9.50
	Nominal	8.00	8.00
Bluetooth HDR4	Maximum	9.50	3.50
	Nominal	8.00	2.00
Bluetooth HDR8	Maximum	9.50	3.50
	Nominal	8.00	2.00

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

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Below table is applicable in the following conditions:

-Simultaneous conditions with Licensed Bands 1/2b, 5/6 GHz WLAN and WPT active

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

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 4a	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 4a
Bluetooth BDR	Maximum	6.50	6.50
	Nominal	5.00	5.00
Bluetooth EDR	Maximum	6.50	6.50
	Nominal	5.00	5.00
Bluetooth LE	Maximum	6.50	6.50
	Nominal	5.00	5.00
Bluetooth HDR4	Maximum	6.50	4.50
	Nominal	5.00	3.00
Bluetooth HDR8	Maximum	6.50	4.50
	Nominal	5.00	3.00

Mode / Band		Modulated Average (ePA) TXBF (dBm) Antenna 4a	Modulated Average (iPA) TXBF (dBm) Antenna 4a
Bluetooth BDR	Maximum	6.50	6.50
	Nominal	5.00	5.00
Bluetooth EDR	Maximum	6.50	6.50
	Nominal	5.00	5.00
Bluetooth LE	Maximum	6.50	6.50
	Nominal	5.00	5.00
Bluetooth HDR4	Maximum	6.50	4.50
	Nominal	5.00	3.00
Bluetooth HDR8	Maximum	6.50	4.50
	Nominal	5.00	3.00

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

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Below table is applicable in the following conditions:

-Simultaneous conditions with Licensed Bands Antenna 1/3/4b, 5/6 GHz WLAN and WPT active

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

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 2a	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 2a
Bluetooth BDR	Maximum	6.50	6.50
	Nominal	5.00	5.00
Bluetooth EDR	Maximum	6.50	6.00
	Nominal	5.00	4.50
Bluetooth LE	Maximum	6.50	6.50
	Nominal	5.00	5.00
Bluetooth HDR4	Maximum	6.50	3.50
	Nominal	5.00	2.00
Bluetooth HDR8	Maximum	6.50	3.50
	Nominal	5.00	2.00

Mode / Band		Modulated Average (ePA) TXBF (dBm) Antenna 2a	Modulated Average (iPA) TXBF (dBm) Antenna 2a
Bluetooth BDR	Maximum	6.50	6.50
	Nominal	5.00	5.00
Bluetooth EDR	Maximum	6.50	6.00
	Nominal	5.00	4.50
Bluetooth LE	Maximum	6.50	6.50
	Nominal	5.00	5.00
Bluetooth HDR4	Maximum	6.50	3.50
	Nominal	5.00	2.00
Bluetooth HDR8	Maximum	6.50	3.50
	Nominal	5.00	2.00

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

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Below table is applicable in the following conditions:

-Simultaneous conditions with Licensed Bands Antenna 3/4b, 5/6 GHz WLAN and WPT active

-Simultaneous conditions with Inter-Band ULCA and WPT active

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 4a	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 4a
Bluetooth BDR	Maximum	5.50	5.50
	Nominal	4.00	4.00
Bluetooth EDR	Maximum	5.50	5.50
	Nominal	4.00	4.00
Bluetooth LE	Maximum	5.50	5.50
	Nominal	4.00	4.00
Bluetooth HDR4	Maximum	5.50	4.50
	Nominal	4.00	3.00
Bluetooth HDR8	Maximum	5.50	4.50
	Nominal	4.00	3.00

Mode / Band		Modulated Average (ePA) TXBF (dBm) Antenna 4a	Modulated Average (iPA) TXBF (dBm) Antenna 4a
Bluetooth BDR	Maximum	5.50	5.50
	Nominal	4.00	4.00
Bluetooth EDR	Maximum	5.50	5.50
	Nominal	4.00	4.00
Bluetooth LE	Maximum	5.50	5.50
	Nominal	4.00	4.00
Bluetooth HDR4	Maximum	5.50	4.50
	Nominal	4.00	3.00
Bluetooth HDR8	Maximum	5.50	4.50
	Nominal	4.00	3.00

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

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Below table is applicable in the following conditions:

-Simultaneous conditions with Licensed Bands Antenna 2b, 5/6 GHz WLAN and WPT active

-Simultaneous conditions with Inter-Band ULCA and WPT active

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 2a	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 2a
Bluetooth BDR	Maximum	5.50	5.50
	Nominal	4.00	4.00
Bluetooth EDR	Maximum	5.50	5.50
	Nominal	4.00	4.00
Bluetooth LE	Maximum	5.50	5.50
	Nominal	4.00	4.00
Bluetooth HDR4	Maximum	5.50	3.50
	Nominal	4.00	2.00
Bluetooth HDR8	Maximum	5.50	3.50
	Nominal	4.00	2.00

Mode / Band		Modulated Average (ePA) TXBF (dBm) Antenna 2a	Modulated Average (iPA) TXBF (dBm) Antenna 2a
Bluetooth BDR	Maximum	5.50	5.50
	Nominal	4.00	4.00
Bluetooth EDR	Maximum	5.50	5.50
	Nominal	4.00	4.00
Bluetooth LE	Maximum	5.50	5.50
	Nominal	4.00	4.00
Bluetooth HDR4	Maximum	5.50	3.50
	Nominal	4.00	2.00
Bluetooth HDR8	Maximum	5.50	3.50
	Nominal	4.00	2.00

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

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1.4.2

802.15.4 Maximum and Reduced Output Power

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 4a	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 4a
802.15.4	Maximum	13.50	11.00
	Nominal	12.00	9.50

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 2a	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 2a
802.15.4	Maximum	13.00	10.00
	Nominal	11.50	8.50

Table below is applicable in the following conditions:

- Simultaneous conditions with Licensed Bands Antenna 3/4b and wPT active
- Simultaneous conditions with 5/6 GHz WLAN and wPT active

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 4a	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 4a
802.15.4	Maximum	10.50	10.50
	Nominal	9.00	9.00

Table below is applicable in the following conditions:

- Simultaneous conditions with Licensed Bands Antenna 2b and wPT active
- Simultaneous conditions with 5/6 GHz WLAN and wPT active

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 2a	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 2a
802.15.4	Maximum	10.00	10.00
	Nominal	8.50	8.50

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Table below is applicable in the following conditions:

- Simultaneous conditions with Licensed Bands Antenna 1/2b, 5/6 GHz WLAN and WPT active
- Simultaneous conditions with 5/6 GHz WLAN active and wPT active

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 4a	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 4a
802.15.4	Maximum	7.50	7.50
	Nominal	6.00	6.00

Table below is applicable in the following conditions:

- Simultaneous conditions with Licensed Bands Antenna 1/3/4b, 5/6 GHz WLAN and WPT active
- Simultaneous conditions with 5/6 GHz WLAN active and wPT active

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 2a	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 2a
802.15.4	Maximum	7.00	7.00
	Nominal	5.50	5.50

Table below is applicable in the following conditions:

- Simultaneous conditions with Licensed Bands Antenna 3/4b, 5/6 GHz WLAN and WPT active
- Simultaneous conditions with Inter-Band ULCA and wPT active

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 4a	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 4a
802.15.4	Maximum	6.50	6.50
	Nominal	5.00	5.00

Table below is applicable in the following conditions:

- Simultaneous conditions with Licensed Bands Antenna 2b, 5/6 GHz WLAN and WPT active
- Simultaneous conditions with Inter-Band ULCA and wPT active

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 2a	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 2a
802.15.4	Maximum	6.00	6.00
	Nominal	4.50	4.50

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1.4.3

NB UNII Maximum and Reduced Output Power

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna WF5B	Modulated Average (iPA) Single Tx Chain (dBm) Antenna WF5B
NB UNII-1 BDR	Maximum	10.00	-2.00
	Nominal	8.50	-3.50
NB UNII-1 HDR4	Maximum	12.50	-2.00
	Nominal	11.00	-3.50
NB UNII-1 HDR8	Maximum	12.50	-2.00
	Nominal	11.00	-3.50

Mode / Band		Modulated Average (ePA) TXBF (dBm) Antenna WF5B	Modulated Average (iPA) TXBF (dBm) Antenna WF5B
NB UNII-1 BDR	Maximum	7.00	-2.00
	Nominal	5.50	-3.50
NB UNII-1 HDR4	Maximum	9.50	-2.00
	Nominal	8.00	-3.50
NB UNII-1 HDR8	Maximum	12.00	-2.00
	Nominal	10.50	-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) Antenna 4a	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 4a
NB UNII-1 BDR	Maximum	8.50	1.00
	Nominal	7.00	-0.50
NB UNII-1 HDR4	Maximum	8.50	1.00
	Nominal	7.00	-0.50
NB UNII-1 HDR8	Maximum	8.50	1.00
	Nominal	7.00	-0.50

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Mode / Band		Modulated Average (ePA) TXBF (dBm) Antenna 4a	Modulated Average (iPA) TXBF (dBm) Antenna 4a
NB UNII-1 BDR	Maximum	7.00	1.00
	Nominal	5.50	-0.50
NB UNII-1 HDR4	Maximum	8.50	1.00
	Nominal	7.00	-0.50
NB UNII-1 HDR8	Maximum	8.50	1.00
	Nominal	7.00	-0.50

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

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 2a	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 2a
NB UNII-1 BDR	Maximum	9.00	-2.00
	Nominal	7.50	-3.50
NB UNII-1 HDR4	Maximum	9.00	-2.00
	Nominal	7.50	-3.50
NB UNII-1 HDR8	Maximum	9.00	-2.00
	Nominal	7.50	-3.50

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Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna WF5B	Modulated Average (iPA) Single Tx Chain (dBm) Antenna WF5B
NB UNII-3 BDR	Maximum	13.50	-1.00
	Nominal	12.00	-2.50
NB UNII-3 HDR4	Maximum	13.50	-1.00
	Nominal	12.00	-2.50
NB UNII-3 HDR8	Maximum	13.50	-1.00
	Nominal	12.00	-2.50

Mode / Band		Modulated Average (ePA) TXBF (dBm) Antenna WF5B	Modulated Average (iPA) TXBF (dBm) Antenna WF5B
NB UNII-3 BDR	Maximum	13.50	-1.00
	Nominal	12.00	-2.50
NB UNII-3 HDR4	Maximum	13.50	-1.00
	Nominal	12.00	-2.50
NB UNII-3 HDR8	Maximum	13.50	-1.00
	Nominal	12.00	-2.50

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

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 4a	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 4a
NB UNII-3 BDR	Maximum	10.00	2.00
	Nominal	8.50	0.50
NB UNII-3 HDR4	Maximum	10.00	2.00
	Nominal	8.50	0.50
NB UNII-3 HDR8	Maximum	10.00	2.00
	Nominal	8.50	0.50

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Mode / Band		Modulated Average (ePA) TXBF (dBm) Antenna 4a	Modulated Average (iPA) TXBF (dBm) Antenna 4a
NB UNII-3 BDR	Maximum	10.00	2.00
	Nominal	8.50	0.50
NB UNII-3 HDR4	Maximum	10.00	2.00
	Nominal	8.50	0.50
NB UNII-3 HDR8	Maximum	10.00	2.00
	Nominal	8.50	0.50

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

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 2a	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 2a
NB UNII-3 BDR	Maximum	11.00	-1.00
	Nominal	9.50	-2.50
NB UNII-3 HDR4	Maximum	11.00	-1.00
	Nominal	9.50	-2.50
NB UNII-3 HDR8	Maximum	11.00	-1.00
	Nominal	9.50	-2.50

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Table below is applicable in the following conditions:

-Simultaneous conditions with Licensed Bands Antenna 3/4b and wPT active

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 4a	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 4a
NB UNII-1 BDR	Maximum	5.50	1.00
	Nominal	4.00	-0.50
NB UNII-1 HDR4	Maximum	5.50	1.00
	Nominal	4.00	-0.50
NB UNII-1 HDR8	Maximum	5.50	1.00
	Nominal	4.00	-0.50

Mode / Band		Modulated Average (ePA) TXBF (dBm) Antenna 4a	Modulated Average (iPA) TXBF (dBm) Antenna 4a
NB UNII-1 BDR	Maximum	5.50	1.00
	Nominal	4.00	-0.50
NB UNII-1 HDR4	Maximum	5.50	1.00
	Nominal	4.00	-0.50
NB UNII-1 HDR8	Maximum	5.50	1.00
	Nominal	4.00	-0.50

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

Table below is applicable in the following conditions:

-Simultaneous conditions with Licensed Bands Antenna 2b and wPT active

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 2a	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 2a
NB UNII-1 BDR	Maximum	6.00	-2.00
	Nominal	4.50	-3.50
NB UNII-1 HDR4	Maximum	6.00	-2.00
	Nominal	4.50	-3.50
NB UNII-1 HDR8	Maximum	6.00	-2.00
	Nominal	4.50	-3.50

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Table below is applicable in the following conditions:

- Simultaneous conditions with Licensed Bands Antenna 1/2b, 2.4 GHz WLAN and WPT active
- Simultaneous conditions with 2.4 GHz WLAN and wPT active

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 4a	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 4a
NB UNII-1 BDR	Maximum	2.50	1.00
	Nominal	1.00	-0.50
NB UNII-1 HDR4	Maximum	2.50	1.00
	Nominal	1.00	-0.50
NB UNII-1 HDR8	Maximum	2.50	1.00
	Nominal	1.00	-0.50

Mode / Band		Modulated Average (ePA) TXBF (dBm) Antenna 4a	Modulated Average (iPA) TXBF (dBm) Antenna 4a
NB UNII-1 BDR	Maximum	2.50	1.00
	Nominal	1.00	-0.50
NB UNII-1 HDR4	Maximum	2.50	1.00
	Nominal	1.00	-0.50
NB UNII-1 HDR8	Maximum	2.50	1.00
	Nominal	1.00	-0.50

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

Table below is applicable in the following conditions:

- Simultaneous conditions with Licensed Bands Antenna 1/3/4b, 2.4 GHz WLAN and WPT active
- Simultaneous conditions with 2.4 GHz WLAN and wPT active

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 2a	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 2a
NB UNII-1 BDR	Maximum	3.00	-2.00
	Nominal	1.50	-3.50
NB UNII-1 HDR4	Maximum	3.00	-2.00
	Nominal	1.50	-3.50
NB UNII-1 HDR8	Maximum	3.00	-2.00
	Nominal	1.50	-3.50

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Table below is applicable in the following conditions:

-Simultaneous conditions with Licensed Bands Antenna 3/4b, 2.4 GHz WLAN and WPT active

-Simultaneous conditions with Inter-Band ULCA and WPT active

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 4a	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 4a
NB UNII-1 BDR	Maximum	1.50	1.00
	Nominal	0.00	-0.50
NB UNII-1 HDR4	Maximum	1.50	1.00
	Nominal	0.00	-0.50
NB UNII-1 HDR8	Maximum	1.50	1.00
	Nominal	0.00	-0.50

Mode / Band		Modulated Average (ePA) TXBF (dBm) Antenna 4a	Modulated Average (iPA) TXBF (dBm) Antenna 4a
NB UNII-1 BDR	Maximum	1.50	1.00
	Nominal	0.00	-0.50
NB UNII-1 HDR4	Maximum	1.50	1.00
	Nominal	0.00	-0.50
NB UNII-1 HDR8	Maximum	1.50	1.00
	Nominal	0.00	-0.50

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

Table below is applicable in the following conditions:

-Simultaneous conditions with Licensed Bands Antenna 2b, 2.4 GHz WLAN and WPT active

-Simultaneous conditions with Inter-Band ULCA and WPT active

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 2a	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 2a
NB UNII-1 BDR	Maximum	2.00	-2.00
	Nominal	0.50	-3.50
NB UNII-1 HDR4	Maximum	2.00	-2.00
	Nominal	0.50	-3.50
NB UNII-1 HDR8	Maximum	2.00	-2.00
	Nominal	0.50	-3.50

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Table below is applicable in the following conditions:

- Simultaneous conditions with Licensed Bands Antenna 1/2b/3/4b, 2.4 GHz WLAN and WPT active
- Simultaneous conditions with 2.4 GHz WLAN and WPT active
- Simultaneous conditions with Inter-Band ULCA and wPT active

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna WF5B	Modulated Average (iPA) Single Tx Chain (dBm) Antenna WF5B
NB UNII-3 BDR	Maximum	13.00	-1.00
	Nominal	11.50	-2.50
NB UNII-3 HDR4	Maximum	13.00	-1.00
	Nominal	11.50	-2.50
NB UNII-3 HDR8	Maximum	13.00	-1.00
	Nominal	11.50	-2.50

Mode / Band		Modulated Average (ePA) TXBF (dBm) Antenna WF5B	Modulated Average (iPA) TXBF (dBm) Antenna WF5B
NB UNII-3 BDR	Maximum	13.00	-1.00
	Nominal	11.50	-2.50
NB UNII-3 HDR4	Maximum	13.00	-1.00
	Nominal	11.50	-2.50
NB UNII-3 HDR8	Maximum	13.00	-1.00
	Nominal	11.50	-2.50

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

Table below is applicable in the following conditions:

- Simultaneous conditions with Licensed Bands Antenna 3/4b and wPT active

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 4a	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 4a
NB UNII-3 BDR	Maximum	7.00	2.00
	Nominal	5.50	0.50
NB UNII-3 HDR4	Maximum	7.00	2.00
	Nominal	5.50	0.50
NB UNII-3 HDR8	Maximum	7.00	2.00
	Nominal	5.50	0.50

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Mode / Band		Modulated Average (ePA) TXBF (dBm) Antenna 4a	Modulated Average (iPA) TXBF (dBm) Antenna 4a
NB UNII-3 BDR	Maximum	7.00	2.00
	Nominal	5.50	0.50
NB UNII-3 HDR4	Maximum	7.00	2.00
	Nominal	5.50	0.50
NB UNII-3 HDR8	Maximum	7.00	2.00
	Nominal	5.50	0.50

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

Table below is applicable in the following conditions:

-Simultaneous conditions with Licensed Bands Antenna 2b and wPT active

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 2a	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 2a
NB UNII-3 BDR	Maximum	8.00	-1.00
	Nominal	6.50	-2.50
NB UNII-3 HDR4	Maximum	8.00	-1.00
	Nominal	6.50	-2.50
NB UNII-3 HDR8	Maximum	8.00	-1.00
	Nominal	6.50	-2.50

Table below is applicable in the following conditions:

-Simultaneous conditions with Licensed Bands Antenna 1/2b, 2.4 GHz WLAN and WPT active

-Simultaneous conditions with 2.4 GHz WLAN active and wPT active

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 4a	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 4a
NB UNII-3 BDR	Maximum	4.00	2.00
	Nominal	2.50	0.50
NB UNII-3 HDR4	Maximum	4.00	2.00
	Nominal	2.50	0.50
NB UNII-3 HDR8	Maximum	4.00	2.00
	Nominal	2.50	0.50

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Mode / Band		Modulated Average (ePA) TXBF (dBm) Antenna 4a	Modulated Average (iPA) TXBF (dBm) Antenna 4a
NB UNII-3 BDR	Maximum	4.00	2.00
	Nominal	2.50	0.50
NB UNII-3 HDR4	Maximum	4.00	2.00
	Nominal	2.50	0.50
NB UNII-3 HDR8	Maximum	4.00	2.00
	Nominal	2.50	0.50

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

Table below is applicable in the following conditions:

-Simultaneous conditions with Licensed Bands Antenna 1/3/4b, 2.4 GHz WLAN and WPT active

-Simultaneous conditions with 2.4 GHz WLAN active and wPT active

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 2a	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 2a
NB UNII-3 BDR	Maximum	5.00	-1.00
	Nominal	3.50	-2.50
NB UNII-3 HDR4	Maximum	5.00	-1.00
	Nominal	3.50	-2.50
NB UNII-3 HDR8	Maximum	5.00	-1.00
	Nominal	3.50	-2.50

Table below is applicable in the following conditions:

-Simultaneous conditions with Licensed Bands Antenna 3/4b, 2.4 GHz WLAN and WPT active

-Simultaneous conditions with Inter-Band ULCA and wPT active

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 4a	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 4a
NB UNII-3 BDR	Maximum	3.00	2.00
	Nominal	1.50	0.50
NB UNII-3 HDR4	Maximum	3.00	2.00
	Nominal	1.50	0.50
NB UNII-3 HDR8	Maximum	3.00	2.00
	Nominal	1.50	0.50

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Mode / Band		Modulated Average (ePA) TXBF (dBm) Antenna 4a	Modulated Average (iPA) TXBF (dBm) Antenna 4a
NB UNII-3 BDR	Maximum	3.00	2.00
	Nominal	1.50	0.50
NB UNII-3 HDR4	Maximum	3.00	2.00
	Nominal	1.50	0.50
NB UNII-3 HDR8	Maximum	3.00	2.00
	Nominal	1.50	0.50

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

Table below is applicable in the following conditions:

-Simultaneous conditions with Licensed Bands Antenna 2b, 2.4 GHz WLAN and WPT active

-Simultaneous conditions with Inter-Band ULCA and WPT active

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 2a	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 2a
NB UNII-3 BDR	Maximum	4.00	-1.00
	Nominal	2.50	-2.50
NB UNII-3 HDR4	Maximum	4.00	-1.00
	Nominal	2.50	-2.50
NB UNII-3 HDR8	Maximum	4.00	-1.00
	Nominal	2.50	-2.50

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1.5 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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1.6 Simultaneous Transmission Capabilities

According to FCC KDB Publication 447498 D04v01, transmitters are considered to be transmitting 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 1-6
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	Cellular Band + 2.4 GHz Wi-Fi + WPT	Yes
6	Cellular Band + 5/6 GHz Wi-Fi + WPT	Yes
7	Cellular Band + 2.4 GHz Bluetooth + WPT	Yes
8	Cellular Band + 802.15.4 + WPT	Yes
9	Cellular Band + 2.4 GHz Wi-Fi MIMO + WPT	Yes
10	Cellular Band + 5/6 GHz Wi-Fi MIMO + WPT	Yes
11	Cellular Band + 2.4 GHz Bluetooth + 5/6 GHz Wi-Fi + WPT	Yes
12	Cellular Band + 802.15.4 + 5/6 GHz Wi-Fi + WPT	Yes
13	Cellular Band + 2.4 GHz Bluetooth + 5/6 GHz Wi-Fi MIMO + WPT	Yes
14	Cellular Band + 802.15.4 + 5/6 GHz Wi-Fi MIMO + WPT	Yes
15	2.4 GHz Bluetooth + 5/6 GHz Wi-Fi + WPT	Yes
16	802.15.4 + 5/6 GHz Wi-Fi + WPT	Yes
17	2.4 GHz Bluetooth + 5/6 GHz Wi-Fi MIMO + WPT	Yes
18	802.15.4 + 5/6 GHz Wi-Fi MIMO + WPT	Yes
19	Cellular Band + 2.4 GHz Bluetooth (TXBF) + 5/6 GHz Wi-Fi + WPT	Yes
20	Cellular Band + 2.4 GHz Bluetooth (TXBF) + 5/6 GHz Wi-Fi MIMO + WPT	Yes
21	2.4 GHz Bluetooth (TXBF) + 5/6 GHz Wi-Fi + WPT	Yes
22	2.4 GHz Bluetooth (TXBF) + 5/6 GHz Wi-Fi MIMO + WPT	Yes
23	Cellular Band + NB UNII + WPT	Yes
24	Cellular Band + NB UNII+ 2.4 GHz Wi-Fi + WPT	Yes
25	Cellular Band + NB UNII+ 2.4 GHz Wi-Fi MIMO + WPT	Yes
26	NB UNII + 2.4 GHz Wi-Fi + WPT	Yes
27	NB UNII + 2.4 GHz Wi-Fi MIMO + WPT	Yes
28	Cellular Band + NB UNII (TXBF) + 2.4 GHz Wi-Fi + WPT	Yes
29	NB UNII (TXBF) + 2.4 GHz Wi-Fi + WPT	Yes
30	Cellular Band + NB UNII (TXBF) + 2.4 GHz Wi-Fi MIMO + WPT	Yes
31	NB UNII (TXBF) + 2.4 GHz Wi-Fi MIMO + WPT	Yes
32	Cellular Band + NB UNII (TXBF) + WPT	Yes
33	Cellular Band + 2.4 GHz Bluetooth (TXBF) + WPT	Yes
34	Cellular Band + 2.4 GHz Wi-Fi Antenna 4a + 2.4 GHz Bluetooth Antenna 2a + WPT	Yes
35	Cellular Band + 2.4 GHz Wi-Fi Antenna 4a + 802.15.4 Antenna 2a + WPT	Yes
36	2.4 GHz Wi-Fi Antenna 4a + 2.4 GHz Bluetooth Antenna 2a + WPT	Yes
37	2.4 GHz Wi-Fi Antenna 4a + 802.15.4 Antenna 2a + WPT	Yes

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Table 1-7
Simultaneous Transmission Scenarios of Inter-Band ULCA

No.	Capable Transmit Configuration	Body	Notes
1	Cellular Ant 1 LB + Cellular Ant 2b MB/HB	Yes	LTE Bands transmitting from Ant 1 LB: LTE B5/12/13/14 LTE Bands transmitting from Ant 2b MB/HB: LTE B2/4/7/30/66
2	Cellular Ant 1 LB + Cellular Ant 3 MB/HB	Yes	LTE Bands transmitting from Ant 1 LB: LTE B5/12/13/14 LTE Bands transmitting from Ant 3 MB/HB: LTE B2/4/7/30/66
3	Cellular Ant 1 LB + Cellular Ant 4b MB/HB	Yes	LTE Bands transmitting from Ant 1 LB: LTE B5/12/13/14 LTE Bands transmitting from Ant 4b MB/HB: LTE B2/4/7/30/66
4	Cellular Ant 3 LB + Cellular Ant 1 MB/HB	Yes	LTE Bands transmitting from Ant 3 LB: LTE B5/12/13/14 LTE Bands transmitting from Ant 1 MB/HB: LTE B2/4/7/30/66
5	Cellular Ant 3 LB + Cellular Ant 2b MB/HB	Yes	LTE Bands transmitting from Ant 3 LB: LTE B5/12/13/14 LTE Bands transmitting from Ant 2b MB/HB: LTE B2/4/7/30/66
6	Cellular Ant 3 LB + Cellular Ant 4b MB/HB	Yes	LTE Bands transmitting from Ant 3 LB: LTE B5/12/13/14 LTE Bands transmitting from Ant 4b MB/HB: LTE B2/4/7/30/66

Note: The technical description includes all the possible Inter-band ULCA combinations.

Table 1-8
Simultaneous Transmission Scenarios with Inter-Band ULCA Active

No.	Capable Transmit Configuration	Body
1	LTE Inter-Band ULCA + 2.4 GHz Wi-Fi + WPT	Yes
2	LTE Inter-Band ULCA + 5/6 GHz Wi-Fi + WPT	Yes
3	LTE Inter-Band ULCA + 2.4 GHz Bluetooth + WPT	Yes
4	LTE Inter-Band ULCA + 802.15.4 + WPT	Yes
5	LTE Inter-Band ULCA + 2.4 GHz Wi-Fi MIMO + WPT	Yes
6	LTE Inter-Band ULCA + 5/6 GHz Wi-Fi MIMO + WPT	Yes
7	LTE Inter-Band ULCA + 2.4 GHz Bluetooth + 5/6 GHz Wi-Fi + WPT	Yes
8	LTE Inter-Band ULCA + 802.15.4 + 5/6 GHz Wi-Fi + WPT	Yes
9	LTE Inter-Band ULCA + 2.4 GHz Bluetooth + 5/6 GHz Wi-Fi MIMO + WPT	Yes
10	LTE Inter-Band ULCA + 802.15.4 + 5/6 GHz Wi-Fi MIMO + WPT	Yes
11	LTE Inter-Band ULCA + 2.4 GHz Bluetooth (TXBF) + 5/6 GHz Wi-Fi + WPT	Yes
12	LTE Inter-Band ULCA + 2.4 GHz Bluetooth (TXBF) + 5/6 GHz Wi-Fi MIMO + WPT	Yes
13	LTE Inter-Band ULCA + NB UNII + WPT	Yes
14	LTE Inter-Band ULCA + NB UNII+ 2.4 GHz Wi-Fi + WPT	Yes
15	LTE Inter-Band ULCA + NB UNII+ 2.4 GHz Wi-Fi MIMO + WPT	Yes
16	LTE Inter-Band ULCA + NB UNII (TXBF) + 2.4 GHz Wi-Fi + WPT	Yes
17	LTE Inter-Band ULCA + NB UNII (TXBF) + 2.4 GHz Wi-Fi MIMO + WPT	Yes
18	LTE Inter-Band ULCA + NB UNII (TXBF) + WPT	Yes
19	LTE Inter-Band ULCA + 2.4 GHz Bluetooth (TXBF) + WPT	Yes
20	LTE Inter-Band ULCA + 2.4 GHz Wi-Fi Antenna 4a + 2.4 GHz Bluetooth Antenna 2a	Yes
21	LTE Inter-Band ULCA + 2.4 GHz Wi-Fi Antenna 4a + 802.15.4 Antenna 2a	Yes

Note: LTE inter-band ULCA can operate in any of the combinations in Table 1-9

1. There are no limitations in the above listed simultaneous transmission scenarios between cellular antennas and BT/Wi-Fi antennas.
2. 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.
3. Specific NB UNII TXBF Antennas that can only transmit simultaneously are listed in the Simultaneous Transmission Backoff Scenarios document.
4. 2.4 GHz WLAN and 5 GHz WLAN cannot transmit simultaneously.
5. 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.

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6. EN-DC operation is supported with LTE + 5G NR FR1 scenarios. The LTE anchor bands are shown in the NR FR1 checklist.
7. This device supports VoWiFi.

1.7 Miscellaneous SAR Test Considerations

(A) WIFI/BT

Based on the maximum allowed power for the respective antennas, U-NII-1 was evaluated for Antenna 2a and WF5B and U-NII-2A was evaluated for Antenna 4a. Additional testing for U-NII-2A Antenna 2a and WF5B and for U-NII-1 Antenna 4a SAR was not required since all reported SAR was less than 1.2 W/kg per FCC KDB Publication 248227 D01v02r02.

The WLAN/Bluetooth/802.15.4/NB UNII chipset in this device is produced by two different suppliers. The electrically identical modules are manufactured with identical mechanical structures to meet the same specifications and functions. Two device variants are referenced as Variant 1 and Variant 2 in this report. WLAN/Bluetooth/802.15.4/NB UNII SAR worst case configuration was spotchecked on Variant 1 and Variant 2. The Variant with the highest reported SAR value was evaluated for the remaining WLAN/Bluetooth/802.15.4/NB UNII configurations.

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

This device supports IEEE 802.11ac with the following features:

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

This device supports IEEE 802.11ax with the following features:

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

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

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

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(B) Licensed Transmitter(s)

This device is only capable of QPSK HSUPA in the uplink. Therefore, no additional SAR tests are required beyond that described for devices with HSUPA in KDB 941225 D01v03r01.

NR implementation supports SA and NSA mode. In EN-DC mode, NR operates with the LTE Bands shown in the NR FR1 checklist acting as anchor bands. Per FCC guidance, SAR tests for NR Bands and LTE Anchors Bands were performed separately due to limitations in SAR probe calibration factors.

LTE SAR for the higher modulations and lower bandwidths were not tested since the maximum average output power of all required channels and configurations was not more than 0.5 dB higher than the highest bandwidth; and the reported LTE SAR for the highest bandwidth was less than 1.45 W/kg for all configurations according to FCC KDB 941225 D05v02r04.

This device supports LTE Carrier Aggregation (CA) in the downlink. All uplink communications are identical to Release 8 specifications. Per FCC KDB Publication 941225 D05A v01r02, SAR for LTE CA operations was not needed since the maximum average output power in LTE CA mode was not >0.25 dB higher than the maximum output power when downlink carrier aggregation was inactive. The downlink carrier aggregation exclusion analysis can be found in LTE DLCA RF Conducted Powers Appendix.

This device supports downlink 4x4 MIMO operations for some LTE Bands. Per May 2017 TCB Workshop Notes, SAR for 4x4 DL MIMO was not needed since the maximum average output power in 4x4 DL MIMO mode was not more than 0.25 dB higher than the maximum output power with 4x4 DL MIMO inactive. Additionally, SAR for 4x4 MIMO Downlink Carrier Aggregation was not needed since the maximum average output power in 4x4 MIMO Downlink Carrier Aggregation mode was not more than 0.25 dB higher than the maximum output power with 4x4 MIMO Downlink and downlink carrier aggregation inactive.

This device supports LTE/NR capabilities with overlapping transmission frequency ranges. When the supported frequency range of an LTE/NR Band falls completely within an LTE/NR band with a larger transmission frequency range, both LTE/NR bands have the same target power (or the band with the larger transmission frequency range has a higher target power), and both LTE/NR bands share the same transmission path and signal characteristics, SAR was only assessed for the band with the larger transmission frequency range.

This device supports both Power Class 2 (PC2) and Power Class 3 (PC3) for LTE Band 41 and NR Band n41/77. Per May 2017 TCB Workshop Notes, SAR tests were performed with Power Class 3 (given the specific UL/DL limitations for Power Class 2). Additionally, SAR testing for the power class 2 condition was evaluated for the highest configuration in Power Class 3 for each test configuration to confirm the results were scalable linearly (See Section 13).

This device supports LTE Carrier Aggregation (CA) for LTE Band 41, LTE Band 48, LTE Band 5, and LTE Band 7 with two component carriers in the uplink. SAR Measurements and conducted powers were evaluated per 2017 Fall TCB Workshop Notes.

This device supports inter-band LTE Carrier Aggregation (CA) for LTE Bands 2/4/5/7/12/13/14 with two component carriers in the uplink.

NR implementation supports SA and NSA mode. In EN-DC mode, NR operates with the LTE Bands shown in the NR FR1 checklist acting as anchor bands. Per FCC guidance, SAR tests for NR Bands and LTE Anchors Bands were performed separately due to limitations in SAR probe calibration factors.

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1.8 Guidance Applied

- FCC KDB Publication 941225 D01v03r01, D05v02r05, D05Av01r02 (3G/4G)
- FCC KDB Publication 248227 D01v02r02 (SAR Considerations for 802.11 Devices)
- FCC KDB Publication 447498 D04v01 (Interim General SAR Guidance)
- FCC KDB Publication 865664 D01v01r04, D02v01r02 (SAR Measurements up to 6 GHz)
- FCC KDB Publication 616217 D04v01r02 (Tablet)
- May 2017 TCB Workshop Notes (LTE 4x4 Downlink MIMO, LTE Band 41 Power Class 2/3)
- November 2017, April 2018, October 2018 TCB Workshop Notes (LTE Carrier Aggregation)
- April 2019 TCB Workshop Notes (IEEE 802.11ax)
- October 2018 TCB Workshop Notes (Inter-band Uplink Carrier Aggregation)
- 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

1.9 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 10.

1.10 Bibliography

Report Type	Report Serial Number
RF Exposure Part 0 Test Report	1C2311270068-01.BCG
RF Exposure Part 2 Test Report	1C2311270068-03.BCG
RF Exposure Compliance Summary Report	1C2311270068-04.BCG

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2 LTE AND NR INFORMATION

LTE Information					
Form Factor	Tablet				
Frequency Range of each LTE transmission	LTE Band 71 (665.5 - 695.5 MHz)				
	LTE Band 12 (699.7 - 715.3 MHz)				
	LTE Band 17 (706.5 - 713.5 MHz)				
	LTE Band 13 (779.5 - 784.5 MHz)				
	LTE Band 14 (790.5 - 795.5 MHz)				
	LTE Band 26 (Cell): 824.7 - 848.3 MHz				
	LTE Band 5 (Cell): 824.7 - 848.3 MHz				
	LTE Band 66 (AWS): 1710.7 - 1779.3 MHz				
	LTE Band 4 (AWS): 1710.7 - 1754.3 MHz				
	LTE Band 25 (PCS): 1850.7 - 1914.3 MHz				
	LTE Band 2 (PCS): 1850.7 - 1909.3 MHz				
	LTE Band 30 (2307.5 - 2312.5 MHz)				
	LTE Band 7 (2502.5 - 2567.5 MHz)				
	LTE Band 41 (2498.5 - 2687.5 MHz)				
	LTE Band 48 (3552.5 - 3697.5 MHz)				
	LTE Band 71: 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	LTE Band 12: 1.4 MHz, 3 MHz, 5 MHz, 10 MHz				
	LTE Band 17: 5 MHz, 10 MHz				
	LTE Band 13: 5 MHz, 10 MHz				
	LTE Band 14: 5 MHz, 10 MHz				
Channel Bandwidths	LTE Band 26 (Cell): 1.4 MHz, 3 MHz, 5 MHz, 10 MHz				
	LTE Band 5 (Cell): 1.4 MHz, 3 MHz, 5 MHz, 10 MHz				
	LTE Band 66 (AWS): 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	LTE Band 4 (AWS): 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	LTE Band 25 (PCS): 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	LTE Band 2 (PCS): 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	LTE Band 30: 5 MHz, 10 MHz				
	LTE Band 7: 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	LTE Band 41: 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	LTE Band 48: 5 MHz, 10 MHz, 15 MHz, 20 MHz				
Channel Numbers and Frequencies (MHz)	Low	Low-Mid	Mid	Mid-High	High
LTE Band 71: 5 MHz	665.5 (133147)	680.5 (133297)	695.5 (133447)		
LTE Band 71: 10 MHz	668 (133172)	680.5 (133297)	693 (133422)		
LTE Band 71: 15 MHz	670.5 (133197)	680.5 (133297)	690.5 (133397)		
LTE Band 71: 20 MHz	673 (133222)	680.5 (133297)	688 (133372)		
LTE Band 12: 1.4 MHz	699.7 (23017)	707.5 (23095)	715.3 (23173)		
LTE Band 12: 3 MHz	700.5 (23025)	707.5 (23095)	714.5 (23165)		
LTE Band 12: 5 MHz	701.5 (23035)	707.5 (23095)	713.5 (23155)		
LTE Band 12: 10 MHz	704 (23060)	707.5 (23095)	711 (23130)		
LTE Band 17: 5 MHz	706.5 (23755)	710 (23790)	713.5 (23825)		
LTE Band 17: 10 MHz	709 (23780)	710 (23790)	711 (23800)		
LTE Band 13: 5 MHz	779.5 (23205)	782 (23230)	784.5 (23255)		
LTE Band 13: 10 MHz	N/A	782 (23230)	N/A		
LTE Band 14: 5 MHz	790.5 (23305)	793 (23330)	795.5 (23355)		
LTE Band 14: 10 MHz	N/A	793 (23330)	N/A		
LTE Band 26 (Cell): 1.4 MHz	814.7 (26697)	831.5 (26865)	848.3 (27033)		
LTE Band 26 (Cell): 3 MHz	815.5 (26705)	831.5 (26865)	847.5 (27025)		
LTE Band 26 (Cell): 5 MHz	816.5 (26715)	831.5 (26865)	846.5 (27015)		
LTE Band 26 (Cell): 10 MHz	819 (26740)	831.5 (26865)	844 (26990)		
LTE Band 5 (Cell): 1.4 MHz	824.7 (26047)	836.5 (26525)	848.3 (26643)		
LTE Band 5 (Cell): 3 MHz	825.5 (26015)	836.5 (26525)	847.5 (26635)		
LTE Band 5 (Cell): 5 MHz	826.5 (26025)	836.5 (26525)	846.5 (26625)		
LTE Band 5 (Cell): 10 MHz	829 (26050)	836.5 (26525)	844 (26600)		
LTE Band 66 (AWS): 1.4 MHz	1710.7 (131979)	1745 (132322)	1779.3 (132665)		
LTE Band 66 (AWS): 3 MHz	1711.5 (131987)	1745 (132322)	1778.5 (132657)		
LTE Band 66 (AWS): 5 MHz	1712.5 (131997)	1745 (132322)	1777.5 (132647)		
LTE Band 66 (AWS): 10 MHz	1715 (132022)	1745 (132322)	1775 (132622)		
LTE Band 66 (AWS): 15 MHz	1717.5 (132047)	1745 (132322)	1772.5 (132597)		
LTE Band 66 (AWS): 20 MHz	1720 (132072)	1745 (132322)	1770 (132572)		
LTE Band 4 (AWS): 1.4 MHz	1710.7 (19957)	1732.5 (20175)	1754.3 (20393)		
LTE Band 4 (AWS): 3 MHz	1711.5 (19965)	1732.5 (20175)	1753.5 (20385)		
LTE Band 4 (AWS): 5 MHz	1712.5 (19975)	1732.5 (20175)	1752.5 (20375)		
LTE Band 4 (AWS): 10 MHz	1715 (20000)	1732.5 (20175)	1750 (20350)		
LTE Band 4 (AWS): 15 MHz	1717.5 (20025)	1732.5 (20175)	1747.5 (20325)		
LTE Band 4 (AWS): 20 MHz	1720 (20050)	1732.5 (20175)	1745 (20300)		
LTE Band 25 (PCS): 1.4 MHz	1850.7 (26047)	1882.5 (26365)	1914.3 (26683)		
LTE Band 25 (PCS): 3 MHz	1851.5 (26055)	1882.5 (26365)	1913.5 (26675)		
LTE Band 25 (PCS): 5 MHz	1852.5 (26065)	1882.5 (26365)	1912.5 (26665)		
LTE Band 25 (PCS): 10 MHz	1855 (26090)	1882.5 (26365)	1910 (26640)		
LTE Band 25 (PCS): 15 MHz	1857.5 (26115)	1882.5 (26365)	1907.5 (26615)		
LTE Band 25 (PCS): 20 MHz	1860 (26140)	1882.5 (26365)	1905 (26590)		
LTE Band 2 (PCS): 1.4 MHz	1850.7 (18607)	1880 (18900)	1909.3 (19193)		
LTE Band 2 (PCS): 3 MHz	1851.5 (18615)	1880 (18900)	1908.5 (19185)		
LTE Band 2 (PCS): 5 MHz	1852.5 (18625)	1880 (18900)	1907.5 (19175)		
LTE Band 2 (PCS): 10 MHz	1855 (18650)	1880 (18900)	1905 (19150)		
LTE Band 2 (PCS): 15 MHz	1857.5 (18675)	1880 (18900)	1902.5 (19125)		
LTE Band 2 (PCS): 20 MHz	1860 (18700)	1880 (18900)	1900 (19100)		
LTE Band 30: 5 MHz	2307.5 (27365)	2310 (27310)	2312.5 (27335)		
LTE Band 30: 10 MHz	N/A	2310 (27310)	N/A		
LTE Band 7: 5 MHz	2502.5 (20775)	2535 (21100)	2567.5 (21425)		
LTE Band 7: 10 MHz	2505 (20800)	2535 (21100)	2565 (21400)		
LTE Band 7: 15 MHz	2507.5 (20825)	2405 (21100)	2562.5 (21375)		
LTE Band 7: 20 MHz	2510 (20850)	2535 (21100)	2560 (21350)		
LTE Band 41: 5 MHz	2506 (39750)	2549.5 (40185)	2593 (40620)	2636.5 (41055)	2680 (41490)
LTE Band 41: 10 MHz	2506 (39750)	2549.5 (40185)	2593 (40620)	2636.5 (41055)	2680 (41490)
LTE Band 41: 15 MHz	2506 (39750)	2549.5 (40185)	2593 (40620)	2636.5 (41055)	2680 (41490)
LTE Band 41: 20 MHz	2506 (39750)	2549.5 (40185)	2593 (40620)	2636.5 (41055)	2680 (41490)
LTE Band 48: 5 MHz	3552.5 (55265)	3600.8 (55748)	N/A	3649.2 (56232)	3697.5 (56715)
LTE Band 48: 10 MHz	3555 (55290)	3601.7 (55757)	N/A	3648.3 (56223)	3695 (56690)
LTE Band 48: 15 MHz	3557.5 (55315)	3602.5 (55765)	N/A	3647.5 (56215)	3692.5 (56665)
LTE Band 48: 20 MHz	3560 (55340)	3603.3 (55773)	N/A	3646.7 (56207)	3690 (56640)
UE Category	DL UE Cat 20, UL UE Cat 18				
Modulations Supported in UL	QPSK, 16QAM, 64QAM, 256QAM				
LTE MPR Permanently implemented per 3GPP TS 36.101, section 6.2.3-6.2.5? (manufacturer attestation to be provided)	YES				
A-MPR (Additional MPR disabled for SAR)	YES				
LTE Carrier Aggregation Possible	The technical description includes all the possible carrier aggregation combinations				
LTE Additional Information	This device does not support full CA features on 3GPP Release 16. It supports carrier aggregation, downlink MIMO, LAA features as shown in the RF Conducted Powers section of this report and the Downlink LTE CA RF Conductive Powers Appendix. All uplink communications are identical to the Release 8 Specifications. The following LTE Release 15 Features are not supported: Carrier Aggregation, Relay, HetNet, Enhanced MIMO, eCIC, WiFi Offloading, eMBMS, Cross-Carrier Scheduling, Enhanced SC-FDMA.				

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3 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.

3.1 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 3-1).

Equation 3-1
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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4 DOSIMETRIC ASSESSMENT

4.1 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 4-1) 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 4-1) 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 4-1. 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.

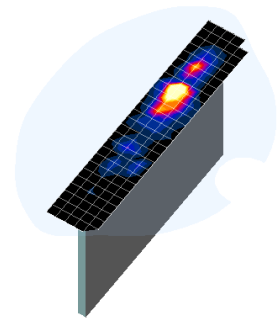


Figure 4-1
Sample SAR Area
Scan

Table 4-1
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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5 TEST CONFIGURATION POSITIONS

5.1 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 $\delta = 0.02$.

5.2 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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6 RF EXPOSURE LIMITS

6.1 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.

6.2 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.

6.3 RF Exposure Limits for Frequencies below 6 GHz

Table 6-1
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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6.4 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 6-2
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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7 FCC MEASUREMENT PROCEDURES

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

7.1 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.

7.2 3G SAR Test Reduction Procedure

In FCC KDB Publication 941225 D01v03r01, certain transmission modes within a frequency band and wireless mode evaluated for SAR are defined as primary modes. The equivalent modes considered for SAR test reduction are denoted as secondary modes. When the maximum output power including tune-up tolerance specified for production units in a secondary mode is ≤ 0.25 dB higher than the primary mode or when the highest reported SAR of the primary mode, scaled by the ratio of specified maximum output power and tune-up tolerance of secondary to primary mode, is ≤ 1.2 W/kg, SAR measurements are not required for the secondary mode. These criteria are referred to as the 3G SAR test reduction procedure. When the 3G SAR test reduction procedure is not satisfied, SAR measurements are additionally required for the secondary mode.

7.3 Procedures Used to Establish RF Signal for SAR

The following procedures are according to FCC KDB Publication 941225 D01v03r01 “3G SAR Measurement Procedures.”

The device is placed into a simulated call using a base station simulator in an RF shielded chamber. Establishing connections in this manner ensure a consistent means for testing SAR and are recommended for evaluating SAR [4]. Devices under test are evaluated prior to testing, with a fully charged battery and were configured to operate at maximum output power. In order to verify that the device is tested throughout the SAR test at maximum output power, the SAR measurement system measures a “point SAR” at an arbitrary reference point at the start and end of the 1-gram SAR evaluation, to assess for any power drifts during the evaluation. If the power drift deviates by more than 5%, the SAR test and drift measurements are repeated.

7.4 SAR Measurement Conditions for UMTS

7.4.1 Output Power Verification

Maximum output power is verified on the High, Middle, and Low channels according to the general descriptions in section 5.2 of 3GPP TS 34.121, using the appropriate RMC with TPC (transmit power control) set to all “1s” or applying the required inner loop power control procedures to maintain maximum output power while HSUPA is active. Results for all applicable physical channel configurations (DPCCH, DPDCHn and spreading codes, HS-DPCCH etc) are tabulated in this test report. All configurations that are not supported by the DUT or cannot be measured due to technical or equipment limitations are identified.

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7.4.2 Body SAR Measurements

SAR for body exposure configurations is measured using the 12.2 kbps RMC with the TPC bits all “1s”. The 3G SAR test reduction procedure is applied to other spreading codes and multiple DPDCH_n configurations supported by the handset with 12.2 kbps RMC as the primary mode. Otherwise, SAR is measured using an applicable RMC configuration with the corresponding spreading code or DPDCH_n, for the highest reported SAR configuration in 12.2 kbps RMC.

7.4.3 SAR Measurements with Rel 5 HSDPA

The 3G SAR test reduction procedure is applied to HSDPA body configurations with 12.2 kbps RMC as the primary mode. Otherwise, Body SAR for HSDPA is measured using an FRC with H-Set 1 in Sub-test 1 and a 12.2 kbps RMC configured in Test Loop Mode 1, for the highest reported SAR configuration in 12.2 kbps RMC without HSDPA. Handsets with both HSDPA and HSUPA are tested according to Release 6 HSPA test procedures.

7.4.4 SAR Measurements with Rel 6 HSUPA

The 3G SAR test reduction procedure is applied to HSPA (HSUPA/HSDPA with RMC) body configurations with 12.2 kbps RMC as the primary mode. Otherwise, Body SAR for HSPA is measured with E-DCH Sub-test 5, using H-Set 1 and QPSK for FRC and a 12.2 kbps RMC configured in Test Loop Mode 1 and power control algorithm 2, according to the highest reported body SAR configuration in 12.2 kbps RMC without HSPA.

7.4.5 SAR Measurement Conditions for DC-HSDPA

SAR is required for Rel. 8 DC-HSDPA when SAR is required for Rel. 5 HSDPA; otherwise, the 3G SAR test reduction procedure is applied to DC-HSDPA with 12.2 kbps RMC as the primary mode. Power is measured for DC-HSDPA according to the H-Set 12, FRC configuration in Table C.8.1.12 of 3GPP TS 34.121-1 to determine SAR test reduction. A primary and a secondary serving HS-DSCH Cell are required to perform the power measurement and for the results to be acceptable.

7.5 SAR Measurement Conditions for LTE

LTE modes are tested according to FCC KDB 941225 D05v02r04 publication. Establishing connections with base station simulators ensure a consistent means for testing SAR and are recommended for evaluating SAR [4]. The R&S CMW500 or Anritsu MT8820C simulators are used for LTE output power measurements and SAR testing. Closed loop power control was used so the UE transmits with maximum output power during SAR testing. SAR tests were performed with the same number of RB and RB offsets transmitting on all TTI frames (maximum TTI).

7.5.1 Spectrum Plots for RB Configurations

A properly configured base station simulator was used for SAR tests and power measurements. Therefore, spectrum plots for RB configurations were not required to be included in this report.

7.5.2 MPR

MPR is permanently implemented for this device by the manufacturer. The specific manufacturer target MPR is indicated alongside the SAR results. MPR is enabled for this device, according to 3GPP TS36.101 Section 6.2.3 – 6.2.5 under Table 6.2.3-1.

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7.5.3 A-MPR

A-MPR (Additional MPR) has been disabled for all SAR tests by setting NS=01 on the base station simulator.

7.5.4 Required RB Size and RB Offsets for SAR Testing

According to FCC KDB 941225 D05v02r04:

- a. Per Section 5.2.1, SAR is required for QPSK 1 RB Allocation for the largest bandwidth.
 - i. The required channel and offset combination with the highest maximum output power is required for SAR.
 - ii. When the reported SAR is ≤ 0.8 W/kg, testing of the remaining RB offset configurations and required test channels is not required. Otherwise, SAR is required for the remaining required test channels using the RB offset configuration with highest output power for that channel.
 - iii. When the reported SAR for a required test channel is > 1.45 W/kg, SAR is required for all RB offset configurations for that channel.
- b. Per Section 5.2.2, SAR is required for 50% RB allocation using the largest bandwidth following the same procedures outlined in Section 5.2.1.
- c. Per Section 5.2.3, QPSK SAR is not required for the 100% allocation when the highest maximum output power for the 100% allocation is less than the highest maximum output power of the 1 RB and 50% RB allocations and the reported SAR for the 1 RB and 50% RB allocations is < 0.8 W/kg.
- d. Per Section 5.2.4 and 5.3, SAR tests for higher order modulations and lower bandwidths configurations are not required when the conducted power of the required test configurations determined by Sections 5.2.1 through 5.2.3 is less than or equal to $\frac{1}{2}$ dB higher than the equivalent configuration using QPSK modulation and when the QPSK SAR for those configurations is < 1.45 W/kg.

7.5.5 TDD

LTE TDD testing is performed using the SAR test guidance provided in FCC KDB 941225 D05v02r04. TDD is tested at the highest duty factor using UL-DL configuration 0 with special subframe configuration 6 and applying the FDD LTE procedures in KDB 941225 D05v02r04. SAR testing is performed using the extended cyclic prefix listed in 3GPP TS 36.211 Section 4.

7.5.6 Downlink Only Carrier Aggregation

Conducted power measurements with LTE Carrier Aggregation (CA) (downlink only) active are made in accordance with KDB Publication 941225 D05Av01r02. The RRC connection is only handled by one cell, the primary component carrier (PCC) for downlink and uplink communications. After making a data connection to the PCC, the UE device adds secondary component carrier(s) (SCC) on the downlink only. All uplink communications and acknowledgements remain identical to specifications when downlink carrier aggregation is inactive on the PCC. Additional conducted output powers are measured with the downlink carrier aggregation active for the configuration with highest measured maximum conducted power with downlink carrier aggregation inactive measured among the channel bandwidth, modulation, and RB combinations in each frequency band. Per FCC KDB Publication 941225 D05Av01r02, no SAR measurements are required for downlink only carrier aggregation configurations when the average output power with downlink only carrier aggregation active is not more than 0.25 dB higher than the average output power with downlink only carrier aggregation inactive.

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7.6 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.

7.6.1 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.

7.6.2 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.

7.6.3 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.

7.6.4 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.

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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.

7.6.5 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.

7.6.6 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 7.6.5). When 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds above.

7.6.7 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.

7.6.8 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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8 RF CONDUCTED POWERS

All conducted power measurements for 3G/4G/5G Sub6 WWAN technologies and bands in this section were performed by setting Reserve power margin (Qualcomm® Smart Transmit EFS entry) to 0dB, so that the EUT transmits continuously at minimum (P_{limit}, maximum tune up output power P_{max}).

8.1 UMTS P_{limit} Conducted Powers

Table 8-1
Measured P_{limit} Antenna 1

3GPP Release Version	Mode	3GPP 34.121 Subtest	Cellular Band [dBm]			AWS Band [dBm]			PCS Band [dBm]			3GPP MPR [dB]
			4132	4183	4233	1312	1412	1513	9262	9400	9538	
99	WCDMA	12.2 kbps RMC	19.32	19.34	19.31	14.07	14.11	14.04	12.91	12.94	12.92	-
6	HSDPA	Subtest 1	19.20	19.19	19.11	13.57	13.65	13.58	12.43	12.53	12.63	0
6		Subtest 2	19.20	19.18	19.10	13.61	13.62	13.58	12.46	12.57	12.61	0
6		Subtest 3	18.71	18.68	18.62	13.07	13.13	13.05	11.94	12.04	12.15	0.5
6		Subtest 4	18.68	18.69	18.61	13.05	13.12	13.09	11.96	12.09	12.12	0.5
6	HSUPA	Subtest 1	19.21	19.28	19.21	13.56	13.63	13.58	12.61	12.70	12.57	0
6		Subtest 2	17.22	17.30	17.21	11.59	11.64	11.61	10.60	10.72	10.59	2
6		Subtest 3	18.19	18.31	18.20	12.55	12.64	12.58	11.63	11.72	11.57	1
6		Subtest 4	17.21	17.31	17.21	11.58	11.64	11.57	10.64	10.71	10.56	2
6		Subtest 5	19.21	19.31	19.22	13.55	13.62	13.57	12.62	12.74	12.59	0
8	DC-HSDPA	Subtest 1	19.27	19.21	19.19	13.56	13.61	13.55	12.33	12.51	12.38	0
8		Subtest 2	19.07	19.05	19.03	13.52	13.58	13.54	12.33	12.54	12.37	0
8		Subtest 3	18.78	18.75	18.73	13.02	13.05	13.01	11.83	12.02	11.86	0.5
8		Subtest 4	18.80	18.76	18.72	13.01	13.06	13.02	11.84	11.98	11.87	0.5

Table 8-2
Measured P_{limit} Antenna 2b

3GPP Release Version	Mode	3GPP 34.121 Subtest	AWS Band [dBm]			PCS Band [dBm]			3GPP MPR [dB]
			1312	1412	1513	9262	9400	9538	
99	WCDMA	12.2 kbps RMC	12.80	12.90	12.89	11.64	11.70	11.60	-
6	HSDPA	Subtest 1	12.44	12.54	12.51	11.40	11.50	11.44	0
6		Subtest 2	12.43	12.50	12.48	11.41	11.51	11.44	0
6		Subtest 3	11.93	12.00	12.00	10.90	11.00	10.96	0.5
6		Subtest 4	11.94	12.03	12.02	10.92	10.99	10.95	0.5
6	HSUPA	Subtest 1	12.42	12.50	12.53	11.41	11.51	11.47	0
6		Subtest 2	10.41	10.49	10.50	9.38	9.50	9.42	2
6		Subtest 3	11.40	11.50	11.48	10.37	10.51	10.45	1
6		Subtest 4	10.43	10.51	10.49	9.36	9.52	9.46	2
6		Subtest 5	12.41	12.50	12.50	11.43	11.52	11.46	0
8	DC-HSDPA	Subtest 1	12.41	12.53	12.52	11.43	11.52	11.46	0
8		Subtest 2	12.40	12.49	12.21	11.40	11.51	11.45	0
8		Subtest 3	11.92	12.00	11.99	10.92	11.00	10.95	0.5
8		Subtest 4	11.93	12.02	12.01	10.90	11.03	10.96	0.5

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Table 8-3
Measured P_{limit} Antenna 3

3GPP Release Version	Mode	3GPP 34.121 Subtest	Cellular Band [dBm]			AWS Band [dBm]			PCS Band [dBm]			3GPP MPR [dB]
			4132	4183	4233	1312	1412	1513	9262	9400	9538	
99	WCDMA	12.2 kbps RMC	18.89	18.85	18.76	15.46	15.45	15.42	14.03	13.77	13.68	-
6	HSDPA	Subtest 1	18.79	18.70	18.69	15.12	15.05	15.01	13.47	13.37	13.32	0
6		Subtest 2	18.74	18.65	18.67	15.13	15.06	15.00	13.48	13.25	13.31	0
6		Subtest 3	18.24	18.19	18.18	14.62	14.53	14.50	12.98	12.75	12.71	0.5
6		Subtest 4	18.25	18.20	18.19	14.62	14.56	14.49	13.00	12.76	12.73	0.5
6	HSUPA	Subtest 1	18.79	18.71	18.72	15.22	15.15	15.09	13.48	13.38	13.32	0
6		Subtest 2	16.79	16.73	16.74	13.21	13.15	13.10	11.50	11.39	11.30	2
6		Subtest 3	17.80	17.72	17.71	14.20	14.14	14.09	12.52	12.37	12.32	1
6		Subtest 4	16.82	16.74	16.73	13.21	13.15	13.11	11.51	11.38	11.29	2
6		Subtest 5	18.81	18.73	18.74	15.23	15.18	15.13	13.52	13.40	13.30	0
8	DC-HSDPA	Subtest 1	18.73	18.67	18.70	15.20	15.11	15.04	13.47	13.37	13.28	0
8		Subtest 2	18.69	18.74	18.75	15.16	15.03	15.01	13.49	13.40	13.33	0
8		Subtest 3	18.21	18.26	18.24	14.64	14.62	14.54	13.01	12.93	12.82	0.5
8		Subtest 4	18.22	18.25	18.21	14.66	14.63	14.59	12.99	12.96	12.81	0.5

Table 8-4
Measured P_{limit} Antenna 4b

3GPP Release Version	Mode	3GPP 34.121 Subtest	AWS Band [dBm]			PCS Band [dBm]			3GPP MPR [dB]
			1312	1412	1513	9262	9400	9538	
99	WCDMA	12.2 kbps RMC	11.82	11.80	11.84	10.89	10.94	10.84	-
6	HSDPA	Subtest 1	12.03	12.04	12.10	10.77	10.87	10.92	0
6		Subtest 2	12.02	12.05	12.09	10.78	10.85	10.91	0
6		Subtest 3	11.51	11.51	11.59	10.77	10.88	10.93	0.5
6		Subtest 4	11.53	11.53	11.57	10.78	10.87	10.93	0.5
6	HSUPA	Subtest 1	11.98	12.02	12.05	11.03	11.13	11.17	0
6		Subtest 2	9.97	10.03	10.06	9.24	9.37	9.40	2
6		Subtest 3	10.96	11.02	11.05	10.22	10.37	10.40	1
6		Subtest 4	9.98	10.03	10.05	9.22	9.36	9.41	2
6		Subtest 5	11.99	12.01	12.04	11.29	11.21	11.24	0
8	DC-HSDPA	Subtest 1	11.98	11.93	12.02	11.01	11.08	11.11	0
8		Subtest 2	11.95	11.91	12.03	11.00	11.06	11.13	0
8		Subtest 3	11.46	11.51	11.54	10.76	10.71	10.87	0.5
8		Subtest 4	11.44	11.52	11.53	10.77	10.71	10.86	0.5

DC-HSDPA considerations

- 3GPP Specification 34.121-1 Release 8 Ver 8.10.0 was used for DC-HSDPA guidance
- H-Set 12 (QPSK) was confirmed to be used during DC-HSDPA measurements
- The DUT supports UE category 24 for HSDPA

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Figure 8-1
Power Measurement Setup

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8.2 LTE Conducted Powers

Notes: Per FCC KDB Publication 941225 D05v02r05, LTE SAR for the lower bandwidths was not required for testing since the maximum average output power of all required channels and configurations was not more than 0.5 dB higher than the highest bandwidth and the reported LTE SAR for the highest bandwidth was less than 1.45 W/kg. Lower bandwidth conducted powers for all LTE bands can be found in appendix LTE and NR Lower Bandwidth RF Conducted Powers Appendix.

Some bands do not support non-overlapping channels. Per FCC Guidance, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

8.2.1 LTE Band 71

Table 8-5
LTE Band 71 Measured P_{Limit} Antenna 1 - 20 MHz Bandwidth

LTE Band 71 20 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			133297 (680.5 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	18.20	0	0
	1	50	18.30		0
	1	99	18.17		0
	50	0	18.25	0-1	0
	50	25	18.32		0
	50	50	18.22		0
	100	0	18.29		0
16QAM	1	0	18.44	0-1	0
	1	50	18.53		0
	1	99	18.40		0
	50	0	18.32	0-2	0
	50	25	18.35		0
	50	50	18.31		0
	100	0	18.35		0
64QAM	1	0	18.42	0-2	0
	1	50	18.48		0
	1	99	18.20		0
	50	0	18.30	0-3	0
	50	25	18.33		0
	50	50	18.30		0
	100	0	18.35		0
256QAM	1	0	18.41	0-5	0.6
	1	50	18.41		0.6
	1	99	18.44		0.6
	50	0	18.30		0.6
	50	25	18.35		0.6
	50	50	18.31		0.6
	100	0	18.35		0.6

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8.2.2

LTE Band 71

Table 8-6
LTE Band 71 Measured P_{Limit} Antenna 3 - 20 MHz Bandwidth

LTE Band 71 20 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			133297 (680.5 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	19.02	0	0
	1	50	19.12		0
	1	99	19.02		0
	50	0	19.08	0-1	0
	50	25	19.13		0
	50	50	19.05		0
	100	0	19.10		0
16QAM	1	0	19.10	0-1	0
	1	50	19.21		0
	1	99	19.04		0
	50	0	18.96	0-2	0
	50	25	19.02		0
	50	50	18.91		0
	100	0	18.92		0
64QAM	1	0	19.06	0-2	0
	1	50	19.08		0
	1	99	18.93		0
	50	0	18.97	0-3	0
	50	25	19.04		0
	50	50	18.92		0
	100	0	18.95		0
256QAM	1	0	19.06	0-5	0
	1	50	19.09		0
	1	99	19.09		0
	50	0	18.96		0
	50	25	19.01		0
	50	50	18.98		0
	100	0	18.95		0

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8.2.3

LTE Band 12

Table 8-7
LTE Band 12 Measured P_{Limit} Antenna 1 - 10 MHz Bandwidth

LTE Band 12 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23095 (707.5 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	18.71	0	0
	1	25	18.62		0
	1	49	18.53		0
	25	0	18.71	0-1	0
	25	12	18.78		0
	25	25	18.74		0
	50	0	18.70		0
16QAM	1	0	18.67	0-1	0
	1	25	18.69		0
	1	49	18.65		0
	25	0	18.45	0-2	0
	25	12	18.48		0
	25	25	18.42		0
	50	0	18.47		0
64QAM	1	0	18.63	0-2	0
	1	25	18.67		0
	1	49	18.58		0
	25	0	18.46	0-3	0
	25	12	18.47		0
	25	25	18.43		0
	50	0	18.41		0
256QAM	1	0	18.55	0-5	0.4
	1	25	18.60		0.4
	1	49	18.45		0.4
	25	0	18.43		0.4
	25	12	18.44		0.4
	25	25	18.40		0.4
	50	0	18.39		0.4

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8.2.4

LTE Band 12

Table 8-8
LTE Band 12 Measured P_{Limit} Antenna 3 - 10 MHz Bandwidth

LTE Band 12 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23095 (707.5 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	18.27	0	0
	1	25	18.30		0
	1	49	18.26		0
	25	0	18.31	0-1	0
	25	12	18.33		0
	25	25	18.36		0
	50	0	18.28		0
16QAM	1	0	18.50	0-1	0
	1	25	18.38		0
	1	49	18.44		0
	25	0	18.41	0-2	0
	25	12	18.38		0
	25	25	18.42		0
	50	0	18.41		0
64QAM	1	0	18.44	0-2	0
	1	25	18.56		0
	1	49	18.59		0
	25	0	18.39	0-3	0
	25	12	18.44		0
	25	25	18.44		0
	50	0	18.34		0
256QAM	1	0	18.50	0-5	0
	1	25	18.46		0
	1	49	18.57		0
	25	0	18.36		0
	25	12	18.35		0
	25	25	18.43		0
	50	0	18.33		0

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8.2.5

LTE Band 13

Table 8-9
LTE Band 13 Measured P_{Limit} Antenna 1 - 10 MHz Bandwidth

LTE Band 13 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23230 (782.0 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	20.98	0	0
	1	25	20.97		0
	1	49	20.92		0
	25	0	21.00	0-1	0
	25	12	21.04		0
	25	25	21.01		0
	50	0	20.96		0
16QAM	1	0	21.18	0-1	0
	1	25	21.14		0
	1	49	21.03		0
	25	0	21.00	0-2	0
	25	12	21.05		0
	25	25	21.03		0
	50	0	21.04		0
64QAM	1	0	21.21	0-2	0
	1	25	21.19		0
	1	49	21.12		0
	25	0	20.73	0-3	0.3
	25	12	20.75		0.3
	25	25	20.70		0.3
	50	0	20.73		0.3
256QAM	1	0	18.75	0-5	2.3
	1	25	18.81		2.3
	1	49	18.74		2.3
	25	0	18.72		2.3
	25	12	18.77		2.3
	25	25	18.71		2.3
	50	0	18.77		2.3

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8.2.6

LTE Band 13

Table 8-10
LTE Band 13 Measured P_{Limit} Antenna 3 - 10 MHz Bandwidth

LTE Band 13 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23230 (782.0 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	18.86	0	0
	1	25	18.74		0
	1	49	18.72		0
	25	0	18.83	0-1	0
	25	12	18.88		0
	25	25	18.81		0
	50	0	18.77		0
16QAM	1	0	18.78	0-1	0
	1	25	18.74		0
	1	49	18.75		0
	25	0	18.77	0-2	0
	25	12	18.83		0
	25	25	18.76		0
	50	0	18.78		0
64QAM	1	0	18.78	0-2	0
	1	25	18.78		0
	1	49	18.76		0
	25	0	18.73	0-3	0
	25	12	18.83		0
	25	25	18.75		0
	50	0	18.81		0
256QAM	1	0	18.81	0-5	0
	1	25	18.69		0
	1	49	18.87		0
	25	0	18.70		0
	25	12	18.79		0
	25	25	18.74		0
	50	0	18.80		0

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8.2.7

LTE Band 14

Table 8-11
LTE Band 14 Measured P_{Limit} Antenna 1 - 10 MHz Bandwidth

LTE Band 14 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23330 (793.0 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	18.99	0	0
	1	25	18.94		0
	1	49	18.91		0
	25	0	18.99	0-1	0
	25	12	18.98		0
	25	25	18.97		0
	50	0	18.96		0
16QAM	1	0	19.12	0-1	0
	1	25	18.99		0
	1	49	19.07		0
	25	0	18.85	0-2	0
	25	12	18.85		0
	25	25	18.82		0
	50	0	18.84		0
64QAM	1	0	19.10	0-2	0
	1	25	18.95		0
	1	49	19.13		0
	25	0	18.84	0-3	0
	25	12	18.85		0
	25	25	18.82		0
	50	0	18.84		0
256QAM	1	0	18.77	0-5	0.9
	1	25	18.67		0.9
	1	49	18.67		0.9
	25	0	18.58		0.9
	25	12	18.57		0.9
	25	25	18.56		0.9
	50	0	18.58		0.9

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8.2.8

LTE Band 14

Table 8-12
LTE Band 14 Measured P_{Limit} Antenna 3 - 10 MHz Bandwidth

LTE Band 14 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23330 (793.0 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	18.28	0	0
	1	25	18.30		0
	1	49	18.20		0
	25	0	18.26	0-1	0
	25	12	18.27		0
	25	25	18.29		0
	50	0	18.22		0
16QAM	1	0	18.61	0-1	0
	1	25	18.57		0
	1	49	18.36		0
	25	0	18.22	0-2	0
	25	12	18.23		0
	25	25	18.24		0
	50	0	18.17		0
64QAM	1	0	18.41	0-2	0
	1	25	18.47		0
	1	49	18.40		0
	25	0	18.20	0-3	0
	25	12	18.25		0
	25	25	18.26		0
	50	0	18.20		0
256QAM	1	0	18.35	0-5	0
	1	25	18.44		0
	1	49	18.25		0
	25	0	18.18		0
	25	12	18.22		0
	25	25	18.27		0
	50	0	18.17		0

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8.2.9

LTE Band 26

Table 8-13
LTE Band 26 (Cell) Measured P_{Limit} Antenna 1 - 10 MHz Bandwidth

LTE Band 26 (Cell) 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26740 (819.0 MHz)	26865 (831.5 MHz)	26990 (844.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	19.02	18.93	18.73	0	0
	1	25	18.95	18.90	18.72		0
	1	49	18.99	18.92	18.70		0
	25	0	18.88	18.81	18.80	0-1	0
	25	12	18.98	18.91	18.83		0
	25	25	18.94	18.89	18.88		0
	50	0	18.96	18.88	18.82		0
16QAM	1	0	19.41	19.25	19.29	0-1	0
	1	25	19.23	19.14	19.29		0
	1	49	19.36	19.23	19.20		0
	25	0	18.97	18.96	19.00	0-2	0
	25	12	19.08	19.07	19.01		0
	25	25	19.08	19.04	19.06		0
	50	0	19.07	19.03	18.99		0
64QAM	1	0	19.33	19.21	19.33	0-2	0
	1	25	19.24	19.18	19.36		0
	1	49	19.19	19.21	19.31		0
	25	0	19.01	19.00	19.00	0-3	0
	25	12	19.10	19.08	19.03		0
	25	25	19.06	19.05	19.08		0
	50	0	19.07	19.05	18.99		0
256QAM	1	0	18.63	18.44	18.54	0-5	1
	1	25	18.72	18.59	18.56		1
	1	49	18.65	18.49	18.66		1
	25	0	18.47	18.46	18.50		1
	25	12	18.56	18.56	18.50		1
	25	25	18.51	18.53	18.56		1
	50	0	18.54	18.54	18.51		1

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8.2.10

LTE Band 26

Table 8-14
LTE Band 26 (Cell) Measured P_{Limit} Antenna 3 - 10 MHz Bandwidth

LTE Band 26 (Cell) 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26740 (819.0 MHz)	26865 (831.5 MHz)	26990 (844.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	18.72	18.65	18.91	0	0
	1	25	18.69	18.82	18.89		0
	1	49	18.71	18.70	18.84		0
	25	0	18.76	18.72	18.74	0-1	0
	25	12	18.76	18.83	18.85		0
	25	25	18.82	18.76	18.80		0
	50	0	18.72	18.80	18.81		0
16QAM	1	0	19.01	19.01	18.94	0-1	0
	1	25	18.89	18.96	18.88		0
	1	49	18.94	18.99	18.91		0
	25	0	18.72	18.70	18.67	0-2	0
	25	12	18.84	18.74	18.65		0
	25	25	18.80	18.76	18.73		0
	50	0	18.82	18.74	18.65		0
64QAM	1	0	19.07	19.02	19.05	0-2	0
	1	25	18.94	18.89	18.90		0
	1	49	18.85	18.92	18.94		0
	25	0	18.73	18.64	18.65	0-3	0
	25	12	18.85	18.74	18.64		0
	25	25	18.81	18.73	18.74		0
	50	0	18.79	18.72	18.64		0
256QAM	1	0	18.71	18.77	19.00	0-5	0
	1	25	19.03	18.88	19.03		0
	1	49	18.81	18.84	18.98		0
	25	0	18.68	18.63	18.69		0
	25	12	18.79	18.74	18.70		0
	25	25	18.77	18.69	18.71		0
	50	0	18.76	18.70	18.64		0

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8.2.11

LTE Band 5

Table 8-15
LTE Band 5 (Cell) Measured P_{Limit} Antenna 1 - 10 MHz Bandwidth

LTE Band 5 (Cell) 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20525 (836.5 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	18.89	0	0
	1	25	18.92		0
	1	49	18.95		0
	25	0	18.82	0-1	0
	25	12	18.89		0
	25	25	18.85		0
	50	0	18.88		0
16QAM	1	0	18.87	0-1	0
	1	25	18.89		0
	1	49	18.79		0
	25	0	18.74	0-2	0
	25	12	18.78		0
	25	25	18.80		0
	50	0	18.81		0
64QAM	1	0	18.78	0-2	0
	1	25	18.82		0
	1	49	18.72		0
	25	0	18.74	0-3	0
	25	12	18.79		0
	25	25	18.80		0
	50	0	18.74		0
256QAM	1	0	18.56	0-5	1
	1	25	18.59		1
	1	49	18.59		1
	25	0	18.56		1
	25	12	18.54		1
	25	25	18.50		1
	50	0	18.55		1

Table 8-16
LTE Band 5 (Cell) Uplink Carrier Aggregation Measured P_{Limit} Antenna 1

PCC										SCC								Power		
Combination	PCC Band	PCC Bandwidth [MHz]	PCC UL Channel	PCC UL Frequency [MHz]	PCC DL Channel	PCC DL Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC UL Channel	SCC UL Frequency [MHz]	SCC DL Channel	SCC DL Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx.Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA 5B	LTE B5	10	20525	836.5	2525	881.5	QPSK	25	25	LTE B5	5	20597	843.7	2597	888.7	QPSK	12	0	18.55	18.85

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8.2.12

LTE Band 5

Table 8-17
LTE Band 5 (Cell) Measured P_{Limit} Antenna 3 - 10 MHz Bandwidth

LTE Band 5 (Cell) 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20525 (836.5 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	18.81	0	0
	1	25	18.79		0
	1	49	18.86		0
	25	0	18.70	0-1	0
	25	12	18.80		0
	25	25	18.74		0
	50	0	18.78		0
16QAM	1	0	18.86	0-1	0
	1	25	19.03		0
	1	49	19.00		0
	25	0	18.73	0-2	0
	25	12	18.78		0
	25	25	18.76		0
	50	0	18.70		0
64QAM	1	0	18.77	0-2	0
	1	25	18.96		0
	1	49	18.90		0
	25	0	18.73	0-3	0
	25	12	18.83		0
	25	25	18.74		0
	50	0	18.66		0
256QAM	1	0	18.89	0-5	0
	1	25	19.07		0
	1	49	18.97		0
	25	0	18.68		0
	25	12	18.81		0
	25	25	18.78		0
	50	0	18.67		0

Table 8-18
LTE Band 5 (Cell) Uplink Carrier Aggregation Measured P_{Limit} Antenna 3

Combination	PCC									SCC									Power	
	PCC Band	PCC Bandwidth [MHz]	PCC UL Channel	PCC UL Frequency [MHz]	PCC DL Channel	PCC DL Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC UL Channel	SCC UL Frequency [MHz]	SCC DL Channel	SCC DL Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_5B	LTE B5	10	20525	836.5	2525	881.5	QPSK	50	0	LTE B5	5	20453	829.3	2453	874.3	QPSK	25	0	18.35	18.78

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8.2.13

LTE Band 66

Table 8-19
LTE Band 66 (AWS) Measured P_{Limit} Antenna 1 - 20 MHz Bandwidth

LTE Band 66 (AWS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			132072 (1720.0 MHz)	132322 (1745.0 MHz)	132572 (1770.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	14.44	14.10	14.32	0	0
	1	50	14.36	14.02	14.31		0
	1	99	14.35	14.06	14.27		0
	50	0	14.44	14.33	14.29	0-1	0
	50	25	14.40	14.29	14.28		0
	50	50	14.43	14.27	14.35		0
	100	0	14.43	14.27	14.27		0
16QAM	1	0	14.43	14.46	14.35	0-1	0
	1	50	14.46	14.39	14.40		0
	1	99	14.35	14.30	14.28		0
	50	0	14.39	14.25	14.05	0-2	0
	50	25	14.36	14.20	14.13		0
	50	50	14.31	14.18	14.11		0
	100	0	14.35	14.17	14.03		0
64QAM	1	0	14.47	14.38	14.19	0-2	0
	1	50	14.44	14.39	14.21		0
	1	99	14.41	14.27	14.12		0
	50	0	14.40	14.23	14.06	0-3	0
	50	25	14.39	14.19	14.12		0
	50	50	14.33	14.14	14.07		0
	100	0	14.35	14.17	14.02		0
256QAM	1	0	14.46	14.30	14.16	0-5	0
	1	50	14.46	14.24	14.16		0
	1	99	14.37	14.19	14.16		0
	50	0	14.37	14.21	14.04		0
	50	25	14.37	14.16	14.12		0
	50	50	14.33	14.11	14.06		0
	100	0	14.36	14.15	14.02		0

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8.2.14

LTE Band 66

Table 8-20
LTE Band 66 (AWS) Measured P_{Limit} Antenna 2b - 20 MHz Bandwidth

LTE Band 66 (AWS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			132072 (1720.0 MHz)	132322 (1745.0 MHz)	132572 (1770.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	12.28	12.25	12.13	0	0
	1	50	12.40	12.38	12.38		0
	1	99	12.36	12.37	12.01		0
	50	0	12.32	12.19	12.15	0-1	0
	50	25	12.41	12.30	12.19		0
	50	50	12.36	12.29	12.38		0
	100	0	12.36	12.24	12.21		0
16QAM	1	0	12.35	12.50	12.49	0-1	0
	1	50	12.28	12.54	12.46		0
	1	99	12.41	12.48	12.20		0
	50	0	12.19	12.19	12.13	0-2	0
	50	25	12.27	12.28	12.07		0
	50	50	12.26	12.24	12.13		0
	100	0	12.26	12.26	12.09		0
64QAM	1	0	12.32	12.46	12.36	0-2	0
	1	50	12.44	12.31	12.28		0
	1	99	12.35	12.43	12.11		0
	50	0	12.18	12.21	12.13	0-3	0
	50	25	12.28	12.30	12.08		0
	50	50	12.25	12.24	12.11		0
	100	0	12.24	12.28	12.11		0
256QAM	1	0	12.30	12.35	12.25	0-5	0
	1	50	12.36	12.31	12.26		0
	1	99	12.44	12.36	12.18		0
	50	0	12.19	12.26	12.17		0
	50	25	12.30	12.32	12.09		0
	50	50	12.26	12.27	12.14		0
	100	0	12.27	12.29	12.10		0

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8.2.15

LTE Band 66

Table 8-21
LTE Band 66 (AWS) Measured P_{Limit} Antenna 3 - 20 MHz Bandwidth

LTE Band 66 (AWS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			132072 (1720.0 MHz)	132322 (1745.0 MHz)	132572 (1770.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	15.57	15.50	15.02	0	0
	1	50	15.56	15.49	15.26		0
	1	99	15.61	15.46	15.08		0
	50	0	15.57	15.48	15.33	0-1	0
	50	25	15.65	15.52	15.40		0
	50	50	15.62	15.50	15.39		0
	100	0	15.60	15.49	15.25		0
16QAM	1	0	15.59	15.60	15.48	0-1	0
	1	50	15.65	15.70	15.59		0
	1	99	15.51	15.52	15.38		0
	50	0	15.46	15.33	15.12	0-2	0
	50	25	15.51	15.37	15.18		0
	50	50	15.45	15.32	15.14		0
	100	0	15.50	15.35	15.10		0
64QAM	1	0	15.80	15.49	15.36	0-2	0
	1	50	15.73	15.61	15.40		0
	1	99	15.70	15.45	15.20		0
	50	0	15.45	15.34	15.16	0-3	0
	50	25	15.54	15.39	15.22		0
	50	50	15.45	15.34	15.18		0
	100	0	15.52	15.37	15.12		0
256QAM	1	0	15.54	15.56	15.30	0-5	0
	1	50	15.56	15.52	15.30		0
	1	99	15.49	15.45	15.31		0
	50	0	15.42	15.31	15.11		0
	50	25	15.50	15.37	15.17		0
	50	50	15.47	15.31	15.15		0
	100	0	15.52	15.36	15.11		0

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8.2.16

LTE Band 66

Table 8-22
LTE Band 66 (AWS) Measured P_{Limit} Antenna 4b - 20 MHz Bandwidth

LTE Band 66 (AWS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			132072 (1720.0 MHz)	132322 (1745.0 MHz)	132572 (1770.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	11.72	11.85	11.88	0	0
	1	50	11.70	11.92	12.05		0
	1	99	11.71	11.97	11.89		0
	50	0	11.80	11.88	11.91	0-1	0
	50	25	11.93	11.98	12.03		0
	50	50	11.92	11.97	11.97		0
	100	0	11.86	11.96	11.99		0
16QAM	1	0	11.98	12.02	12.16	0-1	0
	1	50	11.97	12.06	12.13		0
	1	99	11.94	12.11	12.01		0
	50	0	11.74	11.83	11.88	0-2	0
	50	25	11.84	11.88	11.97		0
	50	50	11.83	11.88	11.97		0
	100	0	11.83	11.89	11.88		0
64QAM	1	0	12.04	12.00	12.11	0-2	0
	1	50	12.25	12.15	12.13		0
	1	99	12.03	12.12	12.19		0
	50	0	11.94	11.90	11.92	0-3	0
	50	25	11.94	11.91	11.95		0
	50	50	11.92	11.92	12.04		0
	100	0	11.95	11.90	11.97		0
256QAM	1	0	12.04	12.01	12.13	0-5	0
	1	50	12.03	12.04	12.15		0
	1	99	12.11	12.09	12.23		0
	50	0	11.92	11.90	11.95		0
	50	25	11.95	11.87	11.97		0
	50	50	11.91	11.87	12.03		0
	100	0	11.91	11.91	11.95		0

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8.2.17

LTE Band 25

Table 8-23
LTE Band 25 (PCS) Measured P_{Limit} Antenna 1 - 20 MHz Bandwidth

LTE Band 25 (PCS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26140 (1860.0 MHz)	26365 (1882.5 MHz)	26590 (1905.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	12.86	13.04	12.99	0	0
	1	50	13.13	13.05	13.02		0
	1	99	12.88	13.01	12.95		0
	50	0	13.13	13.12	13.05	0-1	0
	50	25	13.16	13.14	13.08		0
	50	50	13.12	13.10	13.03		0
	100	0	13.12	13.11	13.07		0
16QAM	1	0	13.08	12.90	13.07	0-1	0
	1	50	13.32	13.27	13.19		0
	1	99	13.01	12.98	13.19		0
	50	0	12.80	12.78	12.68	0-2	0
	50	25	12.84	12.79	12.78		0
	50	50	12.83	12.76	12.78		0
	100	0	12.82	12.77	12.78		0
64QAM	1	0	13.19	12.90	13.28	0-2	0
	1	50	13.30	13.10	13.25		0
	1	99	13.04	12.97	13.22		0
	50	0	12.79	12.81	12.72	0-3	0
	50	25	12.80	12.78	12.78		0
	50	50	12.82	12.79	12.78		0
	100	0	12.82	12.77	12.76		0
256QAM	1	0	13.22	12.91	13.23	0-5	0
	1	50	13.31	13.10	13.25		0
	1	99	13.10	12.94	13.19		0
	50	0	12.81	12.79	12.68		0
	50	25	12.84	12.79	12.76		0
	50	50	12.82	12.80	12.78		0
	100	0	12.83	12.76	12.77		0

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8.2.18

LTE Band 25

Table 8-24
LTE Band 25 (PCS) Measured P_{Limit} Antenna 2b - 20 MHz Bandwidth

LTE Band 25 (PCS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26140 (1860.0 MHz)	26365 (1882.5 MHz)	26590 (1905.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	11.70	11.69	11.83	0	0
	1	50	11.71	11.70	11.82		0
	1	99	11.74	11.75	11.89		0
	50	0	11.75	11.78	11.89	0-1	0
	50	25	11.83	11.84	11.94		0
	50	50	11.78	11.86	11.92		0
	100	0	11.80	11.79	11.88		0
16QAM	1	0	12.03	12.10	11.97	0-1	0
	1	50	12.16	12.14	12.02		0
	1	99	12.10	12.17	11.97		0
	50	0	11.92	11.95	11.88	0-2	0
	50	25	11.98	12.00	11.94		0
	50	50	12.00	12.01	11.91		0
	100	0	11.98	11.99	11.90		0
64QAM	1	0	12.01	12.04	12.12	0-2	0
	1	50	12.09	12.19	12.21		0
	1	99	12.09	12.04	11.99		0
	50	0	11.92	11.95	11.87	0-3	0
	50	25	12.00	12.00	11.92		0
	50	50	12.00	11.99	11.94		0
	100	0	11.95	11.97	11.93		0
256QAM	1	0	12.07	12.04	12.06	0-5	0
	1	50	12.12	12.12	12.03		0
	1	99	12.22	12.18	12.06		0
	50	0	11.87	11.89	11.84		0
	50	25	11.98	12.02	11.93		0
	50	50	12.00	11.99	11.92		0
	100	0	11.97	12.01	11.92		0

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8.2.19

LTE Band 25

Table 8-25
LTE Band 25 (PCS) Measured P_{Limit} Antenna 3 - 20 MHz Bandwidth

LTE Band 25 (PCS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26140 (1860.0 MHz)	26365 (1882.5 MHz)	26590 (1905.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	13.42	13.51	13.27	0	0
	1	50	13.49	13.54	13.24		0
	1	99	13.38	13.48	13.20		0
	50	0	13.50	13.54	13.44	0-1	0
	50	25	13.53	13.58	13.49		0
	50	50	13.54	13.56	13.50		0
	100	0	13.45	13.49	13.47		0
16QAM	1	0	13.44	13.27	13.09	0-1	0
	1	50	13.70	13.46	13.17		0
	1	99	13.46	13.20	13.17		0
	50	0	13.04	12.95	12.89	0-2	0
	50	25	13.10	12.93	12.91		0
	50	50	13.07	13.02	13.00		0
	100	0	13.08	12.90	12.87		0
64QAM	1	0	13.49	13.16	13.12	0-2	0
	1	50	13.65	13.60	13.12		0
	1	99	13.44	13.31	13.09		0
	50	0	13.06	12.97	12.91	0-3	0
	50	25	13.09	12.92	12.88		0
	50	50	13.07	13.00	12.98		0
	100	0	13.07	12.93	12.89		0
256QAM	1	0	13.70	13.40	13.05	0-5	0
	1	50	13.70	13.44	13.23		0
	1	99	13.45	13.21	13.03		0
	50	0	13.06	12.96	12.92		0
	50	25	13.10	12.91	12.89		0
	50	50	13.07	13.02	12.99		0
	100	0	13.08	12.93	12.90		0

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8.2.20

LTE Band 25

Table 8-26
LTE Band 25 (PCS) Measured P_{Limit} Antenna 4b - 20 MHz Bandwidth

LTE Band 25 (PCS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26140 (1860.0 MHz)	26365 (1882.5 MHz)	26590 (1905.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	10.95	11.00	11.11	0	0
	1	50	11.31	11.11	11.13		0
	1	99	11.06	11.01	11.02		0
	50	0	11.26	11.30	11.14	0-1	0
	50	25	11.34	11.31	11.24		0
	50	50	11.35	11.30	11.17		0
	100	0	11.29	11.28	11.20		0
16QAM	1	0	11.19	11.30	11.24	0-1	0
	1	50	11.27	11.33	11.34		0
	1	99	11.32	11.25	11.28		0
	50	0	11.14	11.12	11.05	0-2	0
	50	25	11.19	11.23	11.13		0
	50	50	11.16	11.22	11.09		0
	100	0	11.15	11.18	11.14		0
64QAM	1	0	11.26	11.25	11.15	0-2	0
	1	50	11.38	11.35	11.29		0
	1	99	11.30	11.27	11.10		0
	50	0	11.15	11.10	11.06	0-3	0
	50	25	11.16	11.17	11.12		0
	50	50	11.17	11.19	11.10		0
	100	0	11.18	11.17	11.13		0
256QAM	1	0	11.28	11.22	11.18	0-5	0
	1	50	11.34	11.28	11.24		0
	1	99	11.39	11.36	11.24		0
	50	0	11.08	11.07	11.04		0
	50	25	11.19	11.17	11.13		0
	50	50	11.22	11.21	11.11		0
	100	0	11.19	11.18	11.16		0

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8.2.21

LTE Band 30

Table 8-27
LTE Band 30 Measured P_{Limit} Antenna 1 - 10 MHz Bandwidth

LTE Band 30 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			27710 (2310.0 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	14.37	0	0
	1	25	14.49		0
	1	49	14.34		0
	25	0	14.49	0-1	0
	25	12	14.50		0
	25	25	14.44		0
	50	0	14.48		0
16QAM	1	0	14.74	0-1	0
	1	25	14.70		0
	1	49	14.73		0
	25	0	14.52	0-2	0
	25	12	14.62		0
	25	25	14.59		0
	50	0	14.50		0
64QAM	1	0	14.74	0-2	0
	1	25	14.74		0
	1	49	14.74		0
	25	0	14.52	0-3	0
	25	12	14.61		0
	25	25	14.62		0
	50	0	14.53		0
256QAM	1	0	14.44	0-5	0
	1	25	14.60		0
	1	49	14.50		0
	25	0	14.51		0
	25	12	14.59		0
	25	25	14.56		0
	50	0	14.50		0

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8.2.22

LTE Band 30

Table 8-28
LTE Band 30 Measured P_{Limit} Antenna 2b - 10 MHz Bandwidth

LTE Band 30 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			27710 (2310.0 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	11.22	0	0
	1	25	11.26		0
	1	49	11.20		0
	25	0	11.21	0-1	0
	25	12	11.26		0
	25	25	11.23		0
	50	0	11.24		0
16QAM	1	0	11.21	0-1	0
	1	25	11.18		0
	1	49	11.16		0
	25	0	10.99	0-2	0
	25	12	11.04		0
	25	25	10.99		0
	50	0	11.00		0
64QAM	1	0	11.22	0-2	0
	1	25	11.18		0
	1	49	11.19		0
	25	0	11.01	0-3	0
	25	12	11.07		0
	25	25	11.01		0
	50	0	11.02		0
256QAM	1	0	11.34	0-5	0
	1	25	11.32		0
	1	49	11.23		0
	25	0	11.05		0
	25	12	11.04		0
	25	25	11.03		0
	50	0	11.01		0

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LTE Band 30

Table 8-29
LTE Band 30 Measured P_{Limit} Antenna 3 - 10 MHz Bandwidth

LTE Band 30 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			27710 (2310.0 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	12.38	0	0
	1	25	12.24		0
	1	49	12.21		0
	25	0	12.29	0-1	0
	25	12	12.38		0
	25	25	12.25		0
	50	0	12.37		0
16QAM	1	0	12.31	0-1	0
	1	25	12.26		0
	1	49	12.40		0
	25	0	12.27	0-2	0
	25	12	12.28		0
	25	25	12.27		0
	50	0	12.29		0
64QAM	1	0	12.41	0-2	0
	1	25	12.37		0
	1	49	12.36		0
	25	0	12.33	0-3	0
	25	12	12.36		0
	25	25	12.28		0
	50	0	12.28		0
256QAM	1	0	12.48	0-5	0
	1	25	12.26		0
	1	49	12.41		0
	25	0	12.29		0
	25	12	12.32		0
	25	25	12.28		0
	50	0	12.27		0

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8.2.24

LTE Band 30

Table 8-30
LTE Band 30 Measured P_{Limit} Antenna 4b - 10 MHz Bandwidth

LTE Band 30 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			27710 (2310.0 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	10.65	0	0
	1	25	10.76		0
	1	49	10.65		0
	25	0	10.68	0-1	0
	25	12	10.82		0
	25	25	10.71		0
	50	0	10.73		0
16QAM	1	0	10.90	0-1	0
	1	25	10.89		0
	1	49	10.82		0
	25	0	10.66	0-2	0
	25	12	10.75		0
	25	25	10.76		0
	50	0	10.63		0
64QAM	1	0	10.84	0-2	0
	1	25	10.91		0
	1	49	10.80		0
	25	0	10.66	0-3	0
	25	12	10.76		0
	25	25	10.72		0
	50	0	10.63		0
256QAM	1	0	10.91	0-5	0
	1	25	11.13		0
	1	49	10.97		0
	25	0	10.61		0
	25	12	10.75		0
	25	25	10.71		0
	50	0	10.62		0

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8.2.25

LTE Band 7

Table 8-31
LTE Band 7 Measured P_{Limit} Antenna 1 - 20 MHz Bandwidth

LTE Band 7 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20850 (2510.0 MHz)	21100 (2535.0 MHz)	21350 (2560.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	13.10	13.14	13.05	0	0
	1	50	13.23	13.29	12.98		0
	1	99	13.17	13.13	12.82		0
	50	0	13.29	13.24	13.07	0-1	0
	50	25	13.30	13.34	13.06		0
	50	50	13.24	13.15	12.94		0
	100	0	13.23	13.28	13.04		0
16QAM	1	0	13.32	13.24	13.17	0-1	0
	1	50	13.40	13.37	13.33		0
	1	99	13.32	13.18	13.22		0
	50	0	13.22	13.18	13.10	0-2	0
	50	25	13.24	13.18	13.07		0
	50	50	13.15	13.10	12.97		0
	100	0	13.14	13.15	13.04		0
64QAM	1	0	13.30	13.18	13.15	0-2	0
	1	50	13.38	13.41	13.23		0
	1	99	13.34	13.13	13.06		0
	50	0	13.20	13.17	13.06	0-3	0
	50	25	13.20	13.17	13.03		0
	50	50	13.13	13.06	12.95		0
	100	0	13.11	13.11	13.03		0
256QAM	1	0	13.33	13.21	13.24	0-5	0
	1	50	13.34	13.14	13.22		0
	1	99	13.33	13.14	13.15		0
	50	0	13.17	13.14	13.05		0
	50	25	13.19	13.16	13.09		0
	50	50	13.14	13.07	12.97		0
	100	0	13.11	13.13	13.06		0

Table 8-32
LTE Band 7 Uplink Carrier Aggregation Measured P_{Limit} Antenna 1

	PCC										SCC							Power		
Combination	PCC Band	PCC Bandwidth [MHz]	PCC UL Channel	PCC UL Frequency [MHz]	PCC DL Channel	PCC DL Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC UL Channel	SCC UL Frequency [MHz]	SCC DL Channel	SCC DL Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_7C	LTE B7	20	20850	2510.0	2850	2630.0	QPSK	50	50	LTE B7	20	21048	2529.8	3048	2649.8	QPSK	50	0	13.21	13.24

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8.2.26

LTE Band 7

Table 8-33
LTE Band 7 Measured P_{Limit} Antenna 2b - 20 MHz Bandwidth

LTE Band 7 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20850 (2510.0 MHz)	21100 (2535.0 MHz)	21350 (2560.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	10.78	10.92	10.88	0	0
	1	50	10.82	10.96	10.87		0
	1	99	10.86	10.90	10.77		0
	50	0	10.88	10.98	10.95	0-1	0
	50	25	10.90	11.02	10.92		0
	50	50	10.86	10.93	10.82		0
	100	0	10.85	10.94	10.89		0
16QAM	1	0	10.84	10.87	10.82	0-1	0
	1	50	10.81	10.78	11.02		0
	1	99	10.95	10.83	11.12		0
	50	0	10.84	10.83	11.04	0-2	0
	50	25	10.89	10.91	10.82		0
	50	50	10.91	10.94	10.87		0
	100	0	10.84	10.82	10.78		0
64QAM	1	0	10.82	10.90	10.81	0-2	0
	1	50	10.81	10.86	11.10		0
	1	99	11.13	10.95	11.26		0
	50	0	10.82	10.85	11.11	0-3	0
	50	25	10.87	10.88	10.85		0
	50	50	10.90	10.91	10.88		0
	100	0	10.83	10.84	10.80		0
256QAM	1	0	10.84	10.86	10.83	0-5	0
	1	50	10.82	10.70	10.87		0
	1	99	11.04	10.96	11.15		0
	50	0	10.81	10.82	11.04		0
	50	25	10.86	10.87	10.87		0
	50	50	10.90	10.92	10.88		0
	100	0	10.82	10.82	10.80		0

Table 8-34
LTE Band 7 Uplink Carrier Aggregation Measured P_{Limit} Antenna 2b

	PCC									SCC									Power	
Combination	PCC Band	PCC Bandwidth [MHz]	PCC UL Channel	PCC UL Frequency [MHz]	PCC DL Channel	PCC DL Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC UL Channel	SCC UL Frequency [MHz]	SCC DL Channel	SCC DL Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_7C	LTE B7	20	21350	2560.0	3350	2680.0	QPSK	50	0	LTE B7	20	21152	2540.2	3152	2660.2	QPSK	50	50	10.72	10.95

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8.2.27

LTE Band 7

Table 8-35
LTE Band 7 Measured P_{Limit} Antenna 3 - 20 MHz Bandwidth

LTE Band 7 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20850 (2510.0 MHz)	21100 (2535.0 MHz)	21350 (2560.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	12.12	12.22	12.26	0	0
	1	50	12.20	12.35	12.33		0
	1	99	12.22	12.26	12.27		0
	50	0	12.27	12.35	12.31	0-1	0
	50	25	12.28	12.39	12.30		0
	50	50	12.25	12.34	12.24		0
	100	0	12.24	12.28	12.29		0
16QAM	1	0	12.10	12.33	12.44	0-1	0
	1	50	12.18	12.48	12.52		0
	1	99	12.16	12.41	12.44		0
	50	0	12.11	12.25	12.26	0-2	0
	50	25	12.13	12.27	12.30		0
	50	50	12.11	12.23	12.19		0
	100	0	12.15	12.18	12.25		0
64QAM	1	0	12.17	12.28	12.50	0-2	0
	1	50	12.43	12.41	12.45		0
	1	99	12.27	12.38	12.32		0
	50	0	12.16	12.29	12.30	0-3	0
	50	25	12.18	12.30	12.28		0
	50	50	12.12	12.24	12.21		0
	100	0	12.17	12.20	12.25		0
256QAM	1	0	12.10	12.35	12.46	0-5	0
	1	50	12.20	12.30	12.47		0
	1	99	12.23	12.40	12.37		0
	50	0	12.06	12.23	12.27		0
	50	25	12.12	12.27	12.28		0
	50	50	12.07	12.21	12.20		0
	100	0	12.14	12.20	12.26		0

Table 8-36
LTE Band 7 Uplink Carrier Aggregation Measured P_{Limit} Antenna 3

Combination	PCC									SCC								Power		
	PCC Band	PCC Bandwidth [MHz]	PCC UL Channel	PCC UL Frequency [MHz]	PCC DL Channel	PCC DL Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC UL Channel	SCC UL Frequency [MHz]	SCC DL Channel	SCC DL Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_7C	LTE B7	20	21350	2560.0	3350	2680.0	QPSK	1	0	LTE B7	20	21152	2540.2	3152	2660.2	QPSK	1	99	12.20	12.26

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8.2.28

LTE Band 7

Table 8-37
LTE Band 7 Measured P_{Limit} Antenna 4b - 20 MHz Bandwidth

LTE Band 7							
20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20850 (2510.0 MHz)	21100 (2535.0 MHz)	21350 (2560.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	9.79	9.92	9.85	0	0
	1	50	9.75	10.01	9.94		0
	1	99	9.85	10.06	10.01		0
	50	0	9.88	10.02	9.96	0-1	0
	50	25	9.90	10.06	9.98		0
	50	50	9.91	10.07	10.03		0
	100	0	9.89	10.05	10.04		0
16QAM	1	0	9.92	9.99	10.05	0-1	0
	1	50	9.94	10.05	10.00		0
	1	99	10.02	10.03	10.04		0
	50	0	10.01	9.98	9.91	0-2	0
	50	25	10.01	10.05	9.93		0
	50	50	9.93	9.94	9.84		0
	100	0	9.98	9.98	9.88		0
64QAM	1	0	10.04	10.04	10.05	0-2	0
	1	50	10.01	10.01	10.04		0
	1	99	10.02	9.98	9.94		0
	50	0	10.01	10.01	9.92	0-3	0
	50	25	10.04	10.03	9.97		0
	50	50	9.94	9.93	9.88		0
	100	0	9.99	9.97	9.95		0
256QAM	1	0	9.90	9.99	9.96	0-5	0
	1	50	9.94	10.03	9.97		0
	1	99	9.95	10.00	9.92		0
	50	0	9.97	9.99	9.91		0
	50	25	9.93	10.04	9.97		0
	50	50	9.92	9.95	9.89		0
	100	0	9.99	9.99	9.95		0

Table 8-38
LTE Band 7 Uplink Carrier Aggregation Measured P_{Limit} Antenna 4b

	PCC									SCC								Power		
Combination	PCC Band	PCC Bandwidth [MHz]	PCC UL Channel	PCC UL Frequency [MHz]	PCC DL Channel	PCC DL Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC UL Channel	SCC UL Frequency [MHz]	SCC DL Channel	SCC DL Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_7C	LTE B7	20	20850	2510.0	2850	2630.0	QPSK	1	99	LTE B7	20	21048	2529.8	3048	2649.8	QPSK	1	0	9.72	9.85

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8.2.29

LTE Band 41

Table 8-39
LTE Band 41 PC3 Measured P_{Limit} Antenna 1 - 20 MHz Bandwidth

LTE Band 41 20 MHz Bandwidth									
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			39750 (2506.0 MHz)	40185 (2549.5 MHz)	40620 (2593.0 MHz)	41055 (2636.5 MHz)	41490 (2680.0 MHz)		
			Conducted Power [dBm]						
QPSK	1	0	14.79	14.96	14.89	14.75	14.75	0	0
	1	50	14.97	15.06	14.90	14.86	14.79		0
	1	99	14.85	14.94	14.88	14.74	14.80		0
	50	0	15.00	15.07	15.00	14.88	14.79	0-1	0
	50	25	15.05	15.03	15.05	14.96	14.88		0
	50	50	14.93	15.01	14.93	14.84	14.77		0
	100	0	14.96	15.04	14.92	14.92	14.82		0
16QAM	1	0	14.86	15.13	14.85	14.83	14.84	0-1	0
	1	50	15.18	15.10	15.09	14.99	15.03		0
	1	99	15.02	15.16	14.86	14.96	14.94		0
	50	0	15.01	15.02	14.96	14.84	14.80	0-2	0
	50	25	15.06	14.98	15.07	14.91	14.91		0
	50	50	14.94	14.98	14.93	14.84	14.83		0
	100	0	15.01	14.92	15.00	14.90	14.89		0
64QAM	1	0	14.82	14.78	14.68	14.73	14.71	0-2	0
	1	50	14.86	14.98	14.91	14.89	14.75		0
	1	99	14.84	14.83	14.87	14.66	14.78		0
	50	0	15.02	15.03	15.00	14.83	14.84	0-3	0
	50	25	15.04	14.98	15.02	14.93	14.94		0
	50	50	14.96	14.95	14.96	14.88	14.85		0
	100	0	15.02	14.96	15.01	14.90	14.90		0
256QAM	1	0	15.09	14.92	14.88	14.82	14.69	0-5	0
	1	50	15.01	14.87	14.99	14.85	14.72		0
	1	99	14.84	14.97	14.81	14.83	14.77		0
	50	0	14.99	14.99	14.95	14.88	14.86		0
	50	25	15.07	15.01	15.05	14.94	14.89		0
	50	50	14.96	14.98	14.94	14.83	14.83		0
	100	0	15.02	14.94	14.99	14.91	14.90		0

Table 8-40
LTE Band 41 PC3 Uplink Carrier Aggregation Measured P_{Limit} Antenna 1

	PCC							SCC							Power	
Combination	PCC Band	PCC Bandwidth [MHz]	PCC (UL/DL) Channel	PCC (UL/DL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL/DL) Channel	SCC (UL/DL) Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx.Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_41C	LTE B41	20	40620	2593.0	QPSK	1	0	LTE B41	20	40422	2573.2	QPSK	1	99	15.05	14.89

Table 8-41
LTE Band 41 PC2 Measured P_{Limit} Antenna 1 - 20 MHz Bandwidth

LTE Band 41 20 MHz Bandwidth									
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			39750 (2506.0 MHz)	40185 (2549.5 MHz)	40620 (2593.0 MHz)	41055 (2636.5 MHz)	41490 (2680.0 MHz)		
			Conducted Power [dBm]						
QPSK	1	0	16.48	16.72	16.58	16.24	16.35	0	0
	1	50	16.65	16.90	16.63	16.35	16.49		0
	1	99	16.63	16.85	16.65	16.43	16.59		0
	50	0	16.65	16.78	16.72	16.41	16.48	0-1	0
	50	25	16.74	16.82	16.82	16.49	16.61		0
	50	50	16.67	16.83	16.68	16.44	16.54		0
	100	0	16.71	16.73	16.69	16.49	16.56		0

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Table 8-42
LTE Band 41 PC2 Uplink Carrier Aggregation Measured P_{Limit} Antenna 1

Combination	PCC							SCC							Power	
	PCC Band	PCC Bandwidth [MHz]	PCC (UL/DL) Channel	PCC (UL/DL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL/DL) Channel	SCC (UL/DL) Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx.Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_41C	LTE B41 PC2	20	40620	2593.0	QPSK	1	0	LTE B41 PC2	20	40422	2573.2	QPSK	1	99	16.63	16.58

8.2.30 LTE Band 41

Table 8-43
LTE Band 41 PC3 Measured P_{Limit} Antenna 2b - 20 MHz Bandwidth

LTE Band 41 20 MHz Bandwidth										
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]	
			39750 (2506.0 MHz)	40185 (2549.5 MHz)	40620 (2593.0 MHz)	41055 (2636.5 MHz)	41490 (2680.0 MHz)			
			Conducted Power [dBm]							
QPSK	1	0	12.67	12.72	12.81	12.68	12.70	0	0	
	1	50	12.72	12.70	12.74	12.60	12.64		0-1	0
	1	99	12.73	12.63	12.76	12.61	12.62			0
	50	0	12.73	12.86	12.85	12.72	12.74	0		
	50	25	12.70	12.78	12.89	12.74	12.77	0		
	50	50	12.74	12.76	12.79	12.63	12.68	0		
	100	0	12.72	12.74	12.80	12.75	12.74	0		
16QAM	1	0	12.69	12.55	12.50	12.57	12.51	0-1	0	
	1	50	12.84	12.64	12.60	12.71	12.65		0-2	0
	1	99	12.68	12.52	12.55	12.60	12.55			0
	50	0	12.64	12.67	12.59	12.52	12.51	0		
	50	25	12.60	12.62	12.66	12.56	12.55	0		
	50	50	12.58	12.55	12.53	12.46	12.45	0		
	100	0	12.56	12.57	12.62	12.51	12.51	0		
64QAM	1	0	12.41	12.46	12.54	12.37	12.34	0-2	0	
	1	50	12.69	12.50	12.56	12.46	12.27		0-3	0
	1	99	12.53	12.41	12.45	12.46	12.47			0
	50	0	12.68	12.68	12.61	12.55	12.53	0		
	50	25	12.61	12.60	12.65	12.55	12.54	0		
	50	50	12.58	12.55	12.53	12.46	12.45	0		
	100	0	12.57	12.58	12.60	12.54	12.52	0		
256QAM	1	0	12.64	12.67	12.59	12.68	12.39	0-5	0	
	1	50	12.57	12.76	12.59	12.62	12.35		0	
	1	99	12.57	12.66	12.41	12.51	12.34		0	
	50	0	12.68	12.67	12.63	12.55	12.54		0	
	50	25	12.65	12.65	12.72	12.59	12.58		0	
	50	50	12.61	12.61	12.58	12.48	12.49		0	
	100	0	12.62	12.63	12.65	12.56	12.55		0	

Table 8-44
LTE Band 41 PC3 Uplink Carrier Aggregation Measured P_{Limit} Antenna 2b

Combination	PCC							SCC							Power	
	PCC Band	PCC Bandwidth [MHz]	PCC (UL/DL) Channel	PCC (UL/DL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL/DL) Channel	SCC (UL/DL) Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx.Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_41C	LTE B41	20	40185	2549.5	QPSK	1	0	LTE B41	20	39987	2529.7	QPSK	1	99	12.83	12.72

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Table 8-45
LTE Band 41 PC2 Measured P_{Limit} Antenna 2b - 20 MHz Bandwidth

LTE Band 41 20 MHz Bandwidth									
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			39750 (2506.0 MHz)	40185 (2549.5 MHz)	40620 (2593.0 MHz)	41055 (2636.5 MHz)	41490 (2680.0 MHz)		
			Conducted Power [dBm]						
QPSK	1	0	14.44	14.60	14.47	14.49	14.52	0	0
	1	50	14.62	14.72	14.58	14.66	14.66		0
	1	99	14.63	14.70	14.57	14.70	14.71		0
	50	0	14.70	14.79	14.63	14.51	14.70	0-1	0
	50	25	14.75	14.75	14.71	14.58	14.71		0
	50	50	14.72	14.77	14.62	14.52	14.76		0
	100	0	14.70	14.71	14.67	14.56	14.70		0

Table 8-46
LTE Band 41 PC2 Uplink Carrier Aggregation Measured P_{Limit} Antenna 2b

Combination	PCC							SCC							Power	
	PCC Band	PCC Bandwidth [MHz]	PCC (UL/DL) Channel	PCC (UL/DL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL/DL) Channel	SCC (UL/DL) Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx.Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_41C	LTE B41 PC2	20	40185	2549.5	QPSK	1	0	LTE B41 PC2	20	39987	2529.7	QPSK	1	99	14.74	14.60

8.2.31 LTE Band 41

Table 8-47
LTE Band 41 PC3 Measured P_{Limit} Antenna 3 - 20 MHz Bandwidth

LTE Band 41 20 MHz Bandwidth									
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			39750 (2506.0 MHz)	40185 (2549.5 MHz)	40620 (2593.0 MHz)	41055 (2636.5 MHz)	41490 (2680.0 MHz)		
			Conducted Power [dBm]						
QPSK	1	0	13.44	13.55	13.55	13.40	13.44	0	0
	1	50	13.56	13.70	13.54	13.50	13.53		0
	1	99	13.46	13.56	13.63	13.55	13.48		0
	50	0	13.62	13.71	13.58	13.53	13.60	0-1	0
	50	25	13.67	13.69	13.67	13.62	13.65		0
	50	50	13.59	13.66	13.66	13.54	13.59		0
	100	0	13.61	13.62	13.59	13.59	13.58		0
16QAM	1	0	13.31	13.28	13.43	13.40	13.40	0-1	0
	1	50	13.40	13.47	13.45	13.35	13.27		0
	1	99	13.42	13.42	13.46	13.41	13.32		0
	50	0	13.34	13.49	13.47	13.33	13.40	0-2	0
	50	25	13.33	13.39	13.49	13.37	13.43		0
	50	50	13.31	13.44	13.43	13.32	13.33		0
	100	0	13.35	13.42	13.49	13.34	13.37		0
64QAM	1	0	13.22	13.23	13.45	13.20	13.31	0-2	0
	1	50	13.43	13.42	13.56	13.45	13.35		0
	1	99	13.17	13.27	13.35	13.31	13.42		0
	50	0	13.35	13.48	13.47	13.28	13.34	0-3	0
	50	25	13.34	13.44	13.53	13.36	13.41		0
	50	50	13.26	13.42	13.41	13.30	13.30		0
	100	0	13.34	13.40	13.45	13.29	13.31		0
256QAM	1	0	13.26	13.35	13.68	13.37	13.19	0-5	0
	1	50	13.29	13.34	13.37	13.25	13.22		0
	1	99	13.41	13.36	13.44	13.37	13.28		0
	50	0	13.33	13.42	13.47	13.31	13.32		0
	50	25	13.37	13.42	13.51	13.37	13.38		0
	50	50	13.31	13.46	13.45	13.29	13.27		0
	100	0	13.37	13.43	13.45	13.33	13.32		0

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Table 8-48
LTE Band 41 PC3 Uplink Carrier Aggregation Measured P_{Limit} Antenna 3

Combination	PCC							SCC							Power	
	PCC Band	PCC Bandwidth [MHz]	PCC (UL/DL) Channel	PCC (UL/DL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL/DL) Channel	SCC (UL/DL) Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx.Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_41C	LTE B41	20	40620	2593.0	QPSK	1	99	LTE B41	20	40818	2612.8	QPSK	1	0	13.60	13.63

Table 8-49
LTE Band 41 PC2 Measured P_{Limit} Antenna 3 - 20 MHz Bandwidth

LTE Band 41 20 MHz Bandwidth									
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			39750 (2506.0 MHz)	40185 (2549.5 MHz)	40620 (2593.0 MHz)	41055 (2636.5 MHz)	41490 (2680.0 MHz)		
			Conducted Power [dBm]						
QPSK	1	0	15.30	15.13	15.17	15.18	15.06	0	0
	1	50	15.38	15.24	15.26	15.28	15.19		0
	1	99	15.33	15.15	15.21	15.30	15.17		0
	50	0	15.36	15.37	15.28	15.17	15.24	0-1	0
	50	25	15.38	15.33	15.31	15.23	15.34		0
	50	50	15.30	15.30	15.25	15.16	15.24		0
	100	0	15.33	15.29	15.27	15.20	15.28		0

Table 8-50
LTE Band 41 PC2 Uplink Carrier Aggregation Measured P_{Limit} Antenna 3

Combination	PCC							SCC							Power	
	PCC Band	PCC Bandwidth [MHz]	PCC (UL/DL) Channel	PCC (UL/DL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL/DL) Channel	SCC (UL/DL) Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx.Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_41C	LTE B41 PC2	20	40620	2593.0	QPSK	1	99	LTE B41 PC2	20	40818	2612.8	QPSK	1	0	15.15	15.21

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LTE Band 41

Table 8-51
LTE Band 41 PC3 Measured P_{Limit} Antenna 4b - 20 MHz Bandwidth

LTE Band 41 20 MHz Bandwidth									
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			39750 (2506.0 MHz)	40185 (2549.5 MHz)	40620 (2593.0 MHz)	41055 (2636.5 MHz)	41490 (2680.0 MHz)		
			Conducted Power [dBm]						
QPSK	1	0	11.70	11.70	11.82	11.49	11.59	0	0
	1	50	11.72	11.82	11.84	11.54	11.60		0
	1	99	11.62	11.72	11.81	11.58	11.71		0
	50	0	11.81	11.85	11.95	11.60	11.62	0-1	0
	50	25	11.80	11.80	11.92	11.66	11.75		0
	50	50	11.72	11.82	11.82	11.52	11.70		0
	100	0	11.77	11.78	11.83	11.55	11.74		0
16QAM	1	0	11.99	11.77	11.77	11.66	11.55	0-1	0
	1	50	12.03	11.99	11.92	11.81	11.67		0
	1	99	11.87	11.91	11.92	11.73	11.72		0
	50	0	11.92	11.77	11.80	11.59	11.56	0-2	0
	50	25	11.87	11.85	11.89	11.64	11.68		0
	50	50	11.85	11.75	11.80	11.54	11.59		0
	100	0	11.85	11.81	11.85	11.64	11.60		0
64QAM	1	0	11.78	11.65	11.76	11.51	11.32	0-2	0
	1	50	11.86	11.79	11.82	11.59	11.52		0
	1	99	11.70	11.57	11.80	11.58	11.45		0
	50	0	11.89	11.83	11.79	11.61	11.51	0-3	0
	50	25	11.81	11.83	11.88	11.65	11.61		0
	50	50	11.83	11.80	11.79	11.54	11.55		0
	100	0	11.82	11.80	11.83	11.58	11.60		0
256QAM	1	0	12.04	11.72	11.72	11.69	11.52	0-5	0
	1	50	11.91	11.72	11.78	11.77	11.78		0
	1	99	11.72	11.74	11.69	11.62	11.79		0
	50	0	11.96	11.80	11.78	11.62	11.63		0
	50	25	12.01	11.79	11.85	11.67	11.70		0
	50	50	11.86	11.78	11.78	11.62	11.64		0
	100	0	11.95	11.76	11.82	11.67	11.68		0

Table 8-52
LTE Band 41 PC3 Uplink Carrier Aggregation Measured P_{Limit} Antenna 4b

	PCC							SCC							Power	
Combination	PCC Band	PCC Bandwidth [MHz]	PCC (UL/DL) Channel	PCC (UL/DL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL/DL) Channel	SCC (UL/DL) Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx.Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA 41C	LTE B41	20	41490	2680.0	QPSK	1	0	LTE B41	20	41292	2660.2	QPSK	1	99	11.55	11.59

Table 8-53
LTE Band 41 PC2 Measured P_{Limit} Antenna 4b - 20 MHz Bandwidth

LTE Band 41 20 MHz Bandwidth									
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			39750 (2506.0 MHz)	40185 (2549.5 MHz)	40620 (2593.0 MHz)	41055 (2636.5 MHz)	41490 (2680.0 MHz)		
			Conducted Power [dBm]						
QPSK	1	0	13.75	13.66	13.82	13.53	13.41	0	0
	1	50	13.82	13.70	13.86	13.59	13.48		0
	1	99	13.73	13.65	13.85	13.53	13.51		0
	50	0	13.82	13.82	13.79	13.58	13.52	0-1	0
	50	25	13.83	13.81	13.90	13.64	13.63		0
	50	50	13.80	13.77	13.73	13.53	13.58		0
	100	0	13.70	13.79	13.72	13.59	13.55		0

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Table 8-54
LTE Band 41 PC2 Uplink Carrier Aggregation Measured P_{Limit} Antenna 4b

Combination	PCC							SCC							Power	
	PCC Band	PCC Bandwidth [MHz]	PCC (UL/DL) Channel	PCC (UL/DL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL/DL) Channel	SCC (UL/DL) Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx.Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA 41C	LTE B41 PC2	20	41490	2680.0	QPSK	1	0	LTE B41 PC2	20	41292	2660.2	QPSK	1	99	13.33	13.41

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8.2.33

LTE Band 48

Table 8-55

LTE Band 48 Measured P_{Limit} Antenna 1 - 20 MHz Bandwidth

LTE Band 48 20 MHz Bandwidth								
Modulation	RB Size	RB Offset	Low Channel 55340 (3560.0 MHz)	Low-Mid Channel 55773 (3603.3 MHz)	Mid-High Channel 56207 (3646.7 MHz)	High Channel 56640 (3690.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
Conducted Power [dBm]								
QPSK	1	0	12.82	12.83	12.98	12.93	0	0
	1	50	12.99	12.95	13.04	13.08		0
	1	99	12.90	12.89	12.99	12.86		0
	50	0	13.01	13.04	13.01	13.02	0-1	0
	50	25	13.06	13.07	13.05	13.12		0
	50	50	13.05	13.06	13.09	13.10		0
	100	0	13.02	13.04	13.01	13.05		0
16QAM	1	0	12.89	12.94	13.28	13.23	0-1	0
	1	50	13.26	13.15	13.42	13.37		0
	1	99	13.18	13.03	13.29	13.18		0
	50	0	12.96	13.01	13.18	13.16	0-2	0
	50	25	13.12	13.18	13.32	13.22		0
	50	50	13.09	13.19	13.28	13.16		0
	100	0	13.07	13.15	13.28	13.17		0
64QAM	1	0	12.93	12.99	13.02	13.05	0-2	0
	1	50	13.08	13.01	13.24	13.07		0
	1	99	12.86	13.02	13.11	12.94		0
	50	0	12.91	12.99	13.12	13.13	0-3	0
	50	25	13.10	13.15	13.28	13.14		0
	50	50	13.08	13.15	13.24	13.14		0
	100	0	13.02	13.11	13.19	13.14		0
256QAM	1	0	12.65	12.98	13.02	13.11	0-5	0
	1	50	12.83	13.17	13.28	13.15		0
	1	99	13.03	13.21	13.24	13.13		0
	50	0	12.92	12.98	13.11	13.14		0
	50	25	13.07	13.14	13.25	13.18		0
	50	50	13.07	13.16	13.22	13.13		0
	100	0	13.02	13.10	13.24	13.12		0

Table 8-56

LTE Band 48 Uplink Carrier Aggregation Measured P_{Limit} Antenna 1

Combination	PCC							SCC							Power	
	PCC Band	PCC Bandwidth [MHz]	PCC (UL/DL) Channel	PCC (UL/DL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL/DL) Channel	SCC (UL/DL) Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_48C	LTE B48	20	55340	3560.0	QPSK	50	50	LTE B48	20	55538	3579.8	QPSK	50	0	13.27	13.05

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8.2.34

LTE Band 48

Table 8-57
LTE Band 48 Measured P_{Limit} Antenna 2b - 20 MHz Bandwidth

LTE Band 48 20 MHz Bandwidth								
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			55340 (3560.0 MHz)	55773 (3603.3 MHz)	56207 (3646.7 MHz)	56640 (3690.0 MHz)		
			Conducted Power [dBm]					
QPSK	1	0	13.01	13.04	13.11	13.04	0	0
	1	50	13.16	13.17	13.20	13.27		0
	1	99	13.07	13.09	13.18	12.96		0
	50	0	13.16	13.14	13.18	13.20	0-1	0
	50	25	13.29	13.27	13.24	13.30		0
	50	50	13.21	13.25	13.19	13.25		0
16QAM	100	0	13.17	13.20	13.22	13.21	0	
	1	0	13.15	13.05	13.28	13.19	0-1	0
	1	50	13.30	13.28	13.41	13.30		0
	1	99	13.41	13.16	13.30	13.19		0
	50	0	13.17	13.20	13.21	13.14	0-2	0
	50	25	13.24	13.24	13.25	13.26		0
50	50	13.25	13.24	13.30	13.23	0		
64QAM	100	0	13.19	13.25	13.20	13.23	0	
	1	0	13.06	13.10	13.11	13.04	0-2	0
	1	50	13.25	13.23	13.15	13.22		0
	1	99	13.07	13.08	13.24	13.05		0
	50	0	13.16	13.18	13.17	13.12	0-3	0
	50	25	13.22	13.27	13.21	13.21		0
50	50	13.19	13.26	13.26	13.21	0		
256QAM	100	0	13.21	13.23	13.17	13.21	0	
	1	0	12.91	13.15	13.21	13.11	0-5	0
	1	50	13.20	13.29	13.35	13.26		0
	1	99	13.21	13.35	13.35	13.24		0
	50	0	13.15	13.21	13.17	13.09	0	
	50	25	13.23	13.26	13.23	13.19	0	
256QAM	50	50	13.23	13.25	13.29	13.19	0	
	100	0	13.21	13.25	13.22	13.19	0	

Table 8-58
LTE Band 48 Uplink Carrier Aggregation Measured P_{Limit} Antenna 2b

Combination	PCC								SCC				Power			
	PCC Band	PCC Bandwidth [MHz]	PCC (UL/DL) Channel	PCC (UL/DL) Frequency [MHz]	Modulation	PCC UL#	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL/DL) Channel	SCC (UL/DL) Frequency [MHz]	Modulation	SCC UL#	SCC UL RB Offset	LTE Tx Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_48C	LTE B48	20	55340	3560.0	QPSK	50	50	LTE B48	20	55538	3579.8	QPSK	50	0	13.45	13.21

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LTE Band 48

Table 8-59
LTE Band 48 Measured P_{Limit} Antenna 3 - 20 MHz Bandwidth

LTE Band 48 20 MHz Bandwidth								
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			55340 (3560.0 MHz)	55773 (3603.3 MHz)	56207 (3646.7 MHz)	56640 (3690.0 MHz)		
			Conducted Power [dBm]					
QPSK	1	0	13.44	13.41	13.58	13.56	0	0
	1	50	13.42	13.45	13.61	13.65		0
	1	99	13.43	13.43	13.59	13.54		0
	50	0	13.31	13.47	13.62	13.60	0-1	0
	50	25	13.51	13.59	13.71	13.72		0
	50	50	13.38	13.56	13.69	13.69		0
16QAM	100	0	13.37	13.57	13.60	13.64	0-1	0
	1	0	13.44	13.28	13.67	13.59		0
	1	50	13.55	13.54	13.77	13.80		0
	1	99	13.36	13.44	13.59	13.52	0-2	0
	50	0	13.32	13.47	13.58	13.61		0
	50	25	13.47	13.61	13.70	13.68		0
64QAM	50	50	13.48	13.62	13.68	13.69	0-2	0
	100	0	13.45	13.56	13.68	13.61		0
	1	0	13.20	13.43	13.35	13.57	0-2	0
	1	50	13.40	13.56	13.59	13.65		0
	1	99	13.33	13.30	13.59	13.55	0-3	0
	50	0	13.32	13.51	13.62	13.62		0
50	25	13.51	13.63	13.73	13.64	0		
50	50	13.48	13.61	13.70	13.69	0		
256QAM	100	0	13.45	13.57	13.70	13.64	0-3	0
	1	0	13.48	13.61	13.63	13.62		0
	1	50	13.67	13.69	13.72	13.71		0-5
	1	99	13.68	13.63	13.79	13.78	0	
	50	0	13.48	13.63	13.69	13.69	0	
	50	25	13.62	13.80	13.74	13.74	0	
50	50	13.62	13.72	13.80	13.77	0		
100	0	13.61	13.71	13.72	13.69	0		

Table 8-60
LTE Band 48 Uplink Carrier Aggregation Measured P_{Limit} Antenna 3

Combination	PCC								SCC				Power			
	PCC Band	PCC Bandwidth [MHz]	PCC (UL/DL) Channel	PCC (UL/DL) Frequency [MHz]	Modulation	PCC UL#	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL/DL) Channel	SCC (UL/DL) Frequency [MHz]	Modulation	SCC UL#	SCC UL RB Offset	LTE Tx Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_48C	LTE B48	20	55340	3560.0	QPSK	1	99	LTE B48	20	55538	3579.8	QPSK	1	0	13.39	13.43

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LTE Band 48

Table 8-61
LTE Band 48 Measured P_{Limit} Antenna 4b - 20 MHz Bandwidth

LTE Band 48 20 MHz Bandwidth								
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			55340 (3560.0 MHz)	55773 (3603.3 MHz)	56207 (3646.7 MHz)	56640 (3690.0 MHz)		
			Conducted Power [dBm]					
QPSK	1	0	11.54	11.57	11.44	11.51	0	0
	1	50	11.71	11.61	11.57	11.62		0
	1	99	11.61	11.55	11.45	11.52		0
	50	0	11.75	11.70	11.55	11.64	0-1	0
	50	25	11.80	11.71	11.65	11.69		0
	50	50	11.79	11.67	11.61	11.66		0
16QAM	100	0	11.70	11.66	11.56	11.63	0-1	0
	1	0	11.73	11.44	11.76	11.58		0
	1	50	11.76	11.58	11.83	11.76		0
	1	99	11.62	11.44	11.84	11.65	0-2	0
	50	0	11.77	11.57	11.69	11.62		0
	50	25	11.77	11.63	11.78	11.67		0
64QAM	50	50	11.71	11.63	11.85	11.69	0-2	0
	100	0	11.73	11.57	11.74	11.62		0
	1	0	11.56	11.23	11.60	11.51		0-2
	1	50	11.65	11.52	11.72	11.66	0	
	1	99	11.54	11.51	11.65	11.51	0-3	
	50	0	11.73	11.58	11.72	11.65		0
256QAM	50	25	11.77	11.61	11.77	11.68		0-3
	50	50	11.70	11.63	11.86	11.69	0	
	100	0	11.73	11.57	11.72	11.62	0-5	
	1	0	11.47	11.52	11.62	11.68		0
	1	50	11.48	11.51	11.75	11.82		0-5
	1	99	11.63	11.51	11.84	11.78	0	
50	0	11.74	11.55	11.69	11.67	0		
50	25	11.76	11.63	11.80	11.67	0		
50	50	11.73	11.61	11.84	11.67	0		
100	0	11.71	11.61	11.75	11.65	0		

Table 8-62
LTE Band 48 Uplink Carrier Aggregation Measured P_{Limit} Antenna 4b

Combination	PCC								SCC				Power			
	PCC Band	PCC Bandwidth [MHz]	PCC (UL/DL) Channel	PCC (UL/DL) Frequency [MHz]	Modulation	PCC UL#	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL/DL) Channel	SCC (UL/DL) Frequency [MHz]	Modulation	SCC UL#	SCC UL RB Offset	LTE Tx Power with UL CA Enabled [dBm]	LTE Single Carrier Tx Power [dBm]
CA_48C	LTE B48	20	56640	3690.0	QPSK	50	0	LTE B48	20	56442	3670.2	QPSK	50	50	11.59	11.64

Notes:

- This device supports uplink carrier aggregation for LTE CA_7C, LTE CA_5B, LTE CA_41C and LTE CA_48C with a maximum of two component carriers. For intra-band contiguous carrier aggregation scenarios, 3GPP 36.101 Table 6.2.2A-1 specifies that the aggregate maximum allowed output power is equivalent to the single carrier scenario. 3GPP 36.101 6.2.3A allows for several dB of MPR to be applied when non-contiguous RB allocation is implemented. The conducted powers and MPR settings in this device are permanently implemented per the above 3GPP requirements.
- Per FCC Guidance, the output power with uplink CA active was measured for the configuration with the highest reported SAR with single carrier for each exposure condition. The power was measured with wideband signal integration over both component carriers.

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Figure 8-2
Power Measurement Setup

8.3 NR P_{limit} Conducted Powers

Notes: Per October 2020 TCB Workshop Guidance, NR FR1 SAR evaluations are being generally based on adapting the existing LTE SAR procedures (FCC KDB Publication 941225 D05v02r05). Therefore, NR SAR for the lower bandwidths was not required for testing based on the measured output power and the reported NR SAR for the highest bandwidth. Lower bandwidth conducted powers for all NR bands can be found in LTE and NR Lower Bandwidth RF Conducted Powers Appendix.

Some bands do not support non-overlapping channels. Per FCC Guidance, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

8.3.1 NR Band n71

Table 8-63
NR Band n71 Measured P_{Limit} Antenna 1 - 20 MHz Bandwidth

NR Band n71 20 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			136100 (680.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	18.37	0	0.0
	1	53	18.40		0.0
	1	104	18.35		0.0
	50	0	18.41	0-1	0.0
	50	28	18.46	0	0.0
	50	56	18.45	0-1	0.0
	100	0	18.39		0.0
DFT-s-OFDM 16QAM	1	1	18.66	0-1	0.0
CP-OFDM QPSK	1	1	18.37	0-1.5	0.0

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8.3.2

NR Band n71

Table 8-64
NR Band n71 Measured P_{Limit} Antenna 3 - 20 MHz Bandwidth

NR Band n71 20 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			136100 (680.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	19.14	0	0.0
	1	53	19.23		0.0
	1	104	19.32		0.0
	50	0	19.28	0-1	0.0
	50	28	19.24	0	0.0
	50	56	19.22	0-1	0.0
	100	0	19.22		0.0
DFT-s-OFDM 16QAM	1	1	19.30	0-1	0.0
CP-OFDM QPSK	1	1	18.99	0-1.5	0.0

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8.3.3

NR Band n12

Table 8-65
NR Band n12 Measured P_{Limit} Antenna 1 - 15 MHz Bandwidth

NR Band n12 15 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			141500 (707.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	18.78	0	0.0
	1	40	18.80		0.0
	1	77	18.68		0.0
	36	0	18.63	0-1	0.0
	36	22	18.76	0	0.0
	36	43	18.65	0-1	0.0
	75	0	18.75		0.0
DFT-s-OFDM 16QAM	1	1	18.73	0-1	0.0
CP-OFDM QPSK	1	1	18.64	0-1.5	0.0

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8.3.4

NR Band n12

Table 8-66
NR Band n12 Measured P_{Limit} Antenna 3 - 15 MHz Bandwidth

NR Band n12 15 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			141500 (707.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	18.40	0	0.0
	1	40	18.52		0.0
	1	77	18.43		0.0
	36	0	18.57	0-1	0.0
	36	22	18.45	0	0.0
	36	43	18.46	0-1	0.0
	75	0	18.47		0.0
DFT-s-OFDM 16QAM	1	1	18.49	0-1	0.0
CP-OFDM QPSK	1	1	18.34	0-1.5	0.0

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8.3.5

NR Band n14

Table 8-67
NR Band n14 Measured P_{Limit} Antenna 1 - 10 MHz Bandwidth

NR Band n14 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			158600 (793 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	19.11	0	0.0
	1	26	19.01		0.0
	1	50	18.98		0.0
	25	0	19.00	0-1	0.0
	25	14	18.99	0	0.0
	25	27	19.02	0-1	0.0
	50	0	18.97		0.0
DFT-s-OFDM 16QAM	1	1	19.12	0-1	0.0
CP-OFDM QPSK	1	1	19.05	0-1.5	0.0

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8.3.6

NR Band n14

Table 8-68
NR Band n14 Measured P_{Limit} Antenna 3 - 10 MHz Bandwidth

NR Band n14 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			158600 (793 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	18.28	0	0.0
	1	26	18.19		0.0
	1	50	18.17		0.0
	25	0	18.17	0-1	0.0
	25	14	18.20	0	0.0
	25	27	18.16	0-1	0.0
	50	0	18.19		0.0
DFT-s-OFDM 16QAM	1	1	18.42	0-1	0.0
CP-OFDM QPSK	1	1	18.13	0-1.5	0.0

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8.3.7

NR Band n26

Table 8-69
NR Band n26 Measured P_{Limit} Antenna 1 - 20 MHz Bandwidth

NR Band n26 20 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			166300 (831.5 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	19.23	0	0.0
	1	53	19.12		0.0
	1	104	18.99		0.0
	50	0	19.06	0-1	0.0
	50	28	18.99	0	0.0
	50	56	18.92	0-1	0.0
	100	0	18.98		0.0
DFT-s-OFDM 16QAM	1	1	19.16	0-1	0.0
CP-OFDM QPSK	1	1	19.02	0-1.5	0.0

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8.3.8

NR Band n26

Table 8-70
NR Band n26 Measured P_{Limit} Antenna 3 - 20 MHz Bandwidth

NR Band n26 20 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			166300 (831.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	18.59	0	0.0
	1	53	18.52		0.0
	1	104	18.48		0.0
	50	0	18.56	0-1	0.0
	50	28	18.49	0	0.0
	50	56	18.43	0-1	0.0
	100	0	18.49		0.0
DFT-s-OFDM 16QAM	1	1	18.35	0-1	0.0
CP-OFDM QPSK	1	1	18.54	0-1.5	0.0

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8.3.9

NR Band n5

Table 8-71
NR Band n5 Measured P_{Limit} Antenna 1 - 20 MHz Bandwidth

NR Band n5 20 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			167300 (836.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	19.37	0	0.0
	1	53	19.29		0.0
	1	104	19.22		0.0
	50	0	19.34	0-1	0.0
	50	28	19.31	0	0.0
	50	56	19.16	0-1	0.0
	100	0	19.28		0.0
DFT-s-OFDM 16QAM	1	1	19.41	0-1	0.0
CP-OFDM QPSK	1	1	19.38	0-1.5	0.0

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8.3.10

NR Band n5

Table 8-72
NR Band n5 Measured P_{Limit} Antenna 3 - 20 MHz Bandwidth

NR Band n5 20 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			167300 (836.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	18.73	0	0.0
	1	53	18.64		0.0
	1	104	18.56		0.0
	50	0	18.68	0-1	0.0
	50	28	18.63	0	0.0
	50	56	18.57	0-1	0.0
	100	0	18.61		0.0
DFT-s-OFDM 16QAM	1	1	18.78	0-1	0.0
CP-OFDM QPSK	1	1	18.75	0-1.5	0.0

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8.3.11

NR Band n70

Table 8-73
NR Band n70 Measured P_{Limit} Antenna 1 - 15 MHz Bandwidth

NR Band n70 15 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			340500 (1702.5 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	14.33	0	0.0
	1	40	14.30		0.0
	1	77	14.36		0.0
	36	0	14.30	0-1	0.0
	36	22	14.28	0	0.0
	36	43	14.25	0-1	0.0
	75	0	14.28		0.0
DFT-s-OFDM 16QAM	1	1	14.40	0-1	0.0
CP-OFDM QPSK	1	1	14.33	0-1.5	0.0

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8.3.12

NR Band n70

Table 8-74
NR Band n70 Measured P_{Limit} Antenna 2b - 15 MHz Bandwidth

NR Band n70 15 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			340500 (1702.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	12.27	0	0.0
	1	40	12.26		0.0
	1	77	12.24		0.0
	36	0	12.20	0-1	0.0
	36	22	12.11	0	0.0
	36	43	12.21	0-1	0.0
	75	0	12.15		0.0
DFT-s-OFDM 16QAM	1	1	12.28	0-1	0.0
CP-OFDM QPSK	1	1	12.25	0-1.5	0.0

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8.3.13

NR Band n70

Table 8-75
NR Band n70 Measured P_{Limit} Antenna 3 - 15 MHz Bandwidth

NR Band n70 15 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			340500 (1702.5 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	15.32	0	0.0
	1	40	15.26		0.0
	1	77	15.18		0.0
	36	0	15.21	0-1	0.0
	36	22	15.19	0	0.0
	36	43	15.16	0-1	0.0
	75	0	15.20		0.0
DFT-s-OFDM 16QAM	1	1	15.68	0-1	0.0
CP-OFDM QPSK	1	1	15.27	0-1.5	0.0

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8.3.14

NR Band n70

Table 8-76
NR Band n70 Measured P_{Limit} Antenna 4b - 40 MHz Bandwidth

NR Band n70 15 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			340500 (1702.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	11.59	0	0.0
	1	40	11.58		0.0
	1	77	11.52		0.0
	36	0	11.49	0-1	0.0
	36	22	11.52	0	0.0
	36	43	11.49	0-1	0.0
	75	0	11.50		0.0
DFT-s-OFDM 16QAM	1	1	11.87	0-1	0.0
CP-OFDM QPSK	1	1	11.53	0-1.5	0.0

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8.3.15

NR Band n66

Table 8-77

NR Band n66 Measured P_{Limit} Antenna 1 - 40 MHz Bandwidth

NR Band n66 40 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			349000 (1745 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	14.28	0	0.0
	1	108	14.27		0.0
	1	214	14.41		0.0
	108	0	14.42	0-1	0.0
	108	54	14.33	0	0.0
	108	108	14.39	0-1	0.0
	216	0	14.40		0.0
DFT-s-OFDM 16QAM	1	1	14.17	0-1	0.0
CP-OFDM QPSK	1	1	14.30	0-1.5	0.0

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8.3.16

NR Band n66

Table 8-78
NR Band n66 Measured P_{Limit} Antenna 2b - 40 MHz Bandwidth

NR Band n66 40 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			349000 (1745 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	12.28	0	0.0
	1	108	12.21		0.0
	1	214	12.17		0.0
	108	0	12.23	0-1	0.0
	108	54	12.27	0	0.0
	108	108	12.17	0-1	0.0
	216	0	12.25		0.0
DFT-s-OFDM 16QAM	1	1	12.35	0-1	0.0
CP-OFDM QPSK	1	1	12.25	0-1.5	0.0

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8.3.17

NR Band n66

Table 8-79
NR Band n66 Measured P_{Limit} Antenna 3 - 40 MHz Bandwidth

NR Band n66 40 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			349000 (1745 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	15.24	0	0.0
	1	108	15.44		0.0
	1	214	15.47		0.0
	108	0	15.46	0-1	0.0
	108	54	15.38	0	0.0
	108	108	15.45	0-1	0.0
	216	0	15.42		0.0
DFT-s-OFDM 16QAM	1	1	15.32	0-1	0.0
CP-OFDM QPSK	1	1	15.43	0-1.5	0.0

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8.3.18

NR Band n66

Table 8-80
NR Band n66 Measured P_{Limit} Antenna 4b - 40 MHz Bandwidth

NR Band n66 40 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			349000 (1745 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	11.86	0	0.0
	1	108	11.92		0.0
	1	214	11.89		0.0
	108	0	11.96	0-1	0.0
	108	54	11.89	0	0.0
	108	108	11.95	0-1	0.0
	216	0	11.91		0.0
DFT-s-OFDM 16QAM	1	1	11.81	0-1	0.0
CP-OFDM QPSK	1	1	11.72	0-1.5	0.0

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NR Band n25

Table 8-81
NR Band n25 Measured P_{Limit} Antenna 1 - 40 MHz Bandwidth

NR Band n25 40 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			376500 (1882.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	13.17	0	0.0
	1	108	13.06		0.0
	1	214	12.98		0.0
	108	0	13.13	0-1	0.0
	108	54	13.01	0	0.0
	108	108	13.00	0-1	0.0
	216	0	13.04		0.0
DFT-s-OFDM 16QAM	1	1	13.29	0-1	0.0
CP-OFDM QPSK	1	1	13.06	0-1.5	0.0

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8.3.20

NR Band n25

Table 8-82
NR Band n25 Measured P_{Limit} Antenna 2b - 40 MHz Bandwidth

NR Band n25 40 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			376500 (1882.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	12.02	0	0.0
	1	108	12.05		0.0
	1	214	11.99		0.0
	108	0	12.01	0-1	0.0
	108	54	12.06	0	0.0
	108	108	12.00	0-1	0.0
	216	0	12.03		0.0
DFT-s-OFDM 16QAM	1	1	11.85	0-1	0.0
CP-OFDM QPSK	1	1	11.93	0-1.5	0.0

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NR Band n25

Table 8-83
NR Band n25 Measured P_{Limit} Antenna 3 - 40 MHz Bandwidth

NR Band n25 40 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			376500 (1882.5 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	14.16	0	0.0
	1	108	14.02		0.0
	1	214	14.15		0.0
	108	0	14.15	0-1	0.0
	108	54	14.10	0	0.0
	108	108	14.14	0-1	0.0
	216	0	14.06		0.0
DFT-s-OFDM 16QAM	1	1	14.21	0-1	0.0
CP-OFDM QPSK	1	1	14.22	0-1.5	0.0

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NR Band n25

Table 8-84
NR Band n25 Measured P_{Limit} Antenna 4b - 40 MHz Bandwidth

NR Band n25 40 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			376500 (1882.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	10.94	0	0.0
	1	108	11.02		0.0
	1	214	10.95		0.0
	108	0	10.98	0-1	0.0
	108	54	11.03	0	0.0
	108	108	10.95	0-1	0.0
	216	0	11.00		0.0
DFT-s-OFDM 16QAM	1	1	11.36	0-1	0.0
CP-OFDM QPSK	1	1	10.76	0-1.5	0.0

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NR Band n30

Table 8-85
NR Band n30 Measured P_{Limit} Antenna 1 - 10 MHz Bandwidth

NR Band n30 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			462000 (2310 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	14.59	0	0.0
	1	26	14.48		0.0
	1	50	14.53		0.0
	25	0	14.45	0-1	0.0
	25	14	14.40	0	0.0
	25	27	14.42	0-1	0.0
	50	0	14.37		0.0
DFT-s-OFDM 16QAM	1	1	14.78	0-1	0.0
CP-OFDM QPSK	1	1	14.60	0-1.5	0.0

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NR Band n30

Table 8-86
NR Band n30 Measured P_{Limit} Antenna 2b - 10 MHz Bandwidth

NR Band n30 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			462000 (2310 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	11.43	0	0.0
	1	26	11.46		0.0
	1	50	11.44		0.0
	25	0	11.38	0-1	0.0
	25	14	11.40	0	0.0
	25	27	11.36	0-1	0.0
	50	0	11.35		0.0
DFT-s-OFDM 16QAM	1	1	11.75	0-1	0.0
CP-OFDM QPSK	1	1	11.47	0-1.5	0.0

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8.3.25

NR Band n30

Table 8-87

NR Band n30 Measured P_{Limit} Antenna 3 - 10 MHz Bandwidth

NR Band n30 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			462000 (2310 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	12.02	0	0.0
	1	26	12.06		0.0
	1	50	12.04		0.0
	25	0	12.04	0-1	0.0
	25	14	12.07	0	0.0
	25	27	12.03	0-1	0.0
	50	0	12.02		0.0
DFT-s-OFDM 16QAM	1	1	12.25	0-1	0.0
CP-OFDM QPSK	1	1	12.18	0-1.5	0.0

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NR Band n30

Table 8-88
NR Band n30 Measured P_{Limit} Antenna 4b - 10 MHz Bandwidth

NR Band n30 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			462000 (2310 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	11.17	0	0.0
	1	26	11.07		0.0
	1	50	11.14		0.0
	25	0	11.13	0-1	0.0
	25	14	11.15	0	0.0
	25	27	11.12	0-1	0.0
	50	0	11.10		0.0
DFT-s-OFDM 16QAM	1	1	11.16	0-1	0.0
CP-OFDM QPSK	1	1	11.18	0-1.5	0.0

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NR Band n7

Table 8-89
NR Band n7 Measured P_{Limit} Antenna 1 - 40 MHz Bandwidth

NR Band n7 40 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			507000 (2535 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	13.09	0	0.0
	1	108	13.11		0.0
	1	214	13.04		0.0
	108	0	13.12	0-1	0.0
	108	54	13.01	0	0.0
	108	108	13.05	0-1	0.0
	216	0	13.02		0.0
DFT-s-OFDM 16QAM	1	1	13.19	0-1	0.0
CP-OFDM QPSK	1	1	13.13	0-1.5	0.0

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8.3.28

NR Band n7

Table 8-90
NR Band n7 Measured P_{Limit} Antenna 2b - 40 MHz Bandwidth

NR Band n7 40 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			507000 (2535 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	11.15	0	0.0
	1	108	11.10		0.0
	1	214	11.08		0.0
	108	0	11.12	0-1	0.0
	108	54	11.01	0	0.0
	108	108	11.02	0-1	0.0
	216	0	11.04		0.0
DFT-s-OFDM 16QAM	1	1	11.39	0-1	0.0
CP-OFDM QPSK	1	1	11.13	0-1.5	0.0

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NR Band n7

Table 8-91
NR Band n7 Measured P_{Limit} Antenna 3 - 40 MHz Bandwidth

NR Band n7 40 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			507000 (2535 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	12.00	0	0.0
	1	108	12.02		0.0
	1	214	12.01		0.0
	108	0	11.94	0-1	0.0
	108	54	11.82	0	0.0
	108	108	11.92	0-1	0.0
	216	0	11.87		0.0
DFT-s-OFDM 16QAM	1	1	11.56	0-1	0.0
CP-OFDM QPSK	1	1	12.02	0-1.5	0.0

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NR Band n7

Table 8-92
NR Band n7 Measured P_{Limit} Antenna 4b - 40 MHz Bandwidth

NR Band n7 40 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			507000 (2535 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	10.49	0	0.0
	1	108	10.42		0.0
	1	214	10.33		0.0
	108	0	10.41	0-1	0.0
	108	54	10.38	0	0.0
	108	108	10.40	0-1	0.0
	216	0	10.38		0.0
DFT-s-OFDM 16QAM	1	1	10.56	0-1	0.0
CP-OFDM QPSK	1	1	10.53	0-1.5	0.0

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NR Band n41

Table 8-93
NR Band n41 Measured P_{Limit} Antenna 1 - 100 MHz Bandwidth

NR Band n41 100 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			518598 (2592.99 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	13.23	0	0.0
	1	137	13.39		0.0
	1	271	13.28		0.0
	135	0	13.26	0-1	0.0
	135	69	13.40	0	0.0
	135	138	13.32	0-1	0.0
	270	0	13.35		0.0
DFT-s-OFDM 16QAM	1	1	13.03	0-1	0.0
CP-OFDM QPSK	1	1	13.08	0-1.5	0.0

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NR Band n41

Table 8-94
NR Band n41 Measured P_{Limit} Antenna 2b - 100 MHz Bandwidth

NR Band n41 100 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			518598 (2592.99 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	10.86	0	0.0
	1	137	10.97		0.0
	1	271	10.84		0.0
	135	0	11.01	0-1	0.0
	135	69	11.04	0	0.0
	135	138	10.91	0-1	0.0
	270	0	10.96		0.0
DFT-s-OFDM 16QAM	1	1	10.87	0-1	0.0
CP-OFDM QPSK	1	1	10.89	0-1.5	0.0

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NR Band n41

Table 8-95
NR Band n41 Measured P_{Limit} Antenna 3 - 100 MHz Bandwidth

NR Band n41 100 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			518598 (2592.99 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	11.72	0	0.0
	1	137	11.71		0.0
	1	271	11.65		0.0
	135	0	11.60	0-1	0.0
	135	69	11.66	0	0.0
	135	138	11.69	0-1	0.0
	270	0	11.65		0.0
DFT-s-OFDM 16QAM	1	1	11.67	0-1	0.0
CP-OFDM QPSK	1	1	11.70	0-1.5	0.0

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NR Band n41

Table 8-96
NR Band n41 Measured P_{Limit} Antenna 4b - 100 MHz Bandwidth

NR Band n41 100 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			518598 (2592.99 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	9.87	0	0.0
	1	137	9.84		0.0
	1	271	9.95		0.0
	135	0	9.77	0-1	0.0
	135	69	9.86	0	0.0
	135	138	9.93	0-1	0.0
	270	0	9.79		0.0
DFT-s-OFDM 16QAM	1	1	10.15	0-1	0.0
CP-OFDM QPSK	1	1	9.76	0-1.5	0.0

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NR Band n48

Table 8-97
NR Band n48 Measured P_{Limit} Antenna 1 - 40 MHz Bandwidth

NR Band n48 40 MHz Bandwidth							
			Channel			MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	638000 (3570 MHz)	641666 (3624.99 MHz)	645332 (3679.98 MHz)		
			Conducted Power [dBm]				
DFT-s-OFDM QPSK	1	1	11.27	11.28	11.30	0	0.0
	1	53	11.16	11.27	11.12		0.0
	1	104	11.08	11.22	10.96		0.0
	50	0	11.14	11.23	11.25	0-1	0.0
	50	28	11.09	11.18	11.15	0	0.0
	50	56	11.08	11.16	10.89	0-1	0.0
	100	0	11.06	11.18	11.09		0.0
DFT-s-OFDM 16QAM	1	1	11.04	11.25	11.22	0-1	0.0
CP-OFDM QPSK	1	1	11.19	11.15	11.25	0-1.5	0.0

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NR Band n48

Table 8-98
NR Band n48 Measured P_{Limit} Antenna 2b - 40 MHz Bandwidth

NR Band n48 40 MHz Bandwidth							
			Channel			MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	638000 (3570 MHz)	641666 (3624.99 MHz)	645332 (3679.98 MHz)		
			Conducted Power [dBm]				
DFT-s-OFDM QPSK	1	1	10.90	10.74	10.35	0	0.0
	1	53	10.72	10.71	10.27		0.0
	1	104	10.97	10.81	10.48		0.0
	50	0	10.76	10.75	10.45	0-1	0.0
	50	28	10.73	10.64	10.37	0	0.0
	50	56	10.67	10.65	10.16	0-1	0.0
	100	0	10.70	10.68	10.36		0.0
DFT-s-OFDM 16QAM	1	1	10.80	10.78	10.56	0-1	0.0
CP-OFDM QPSK	1	1	10.90	10.85	10.51	0-1.5	0.0

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NR Band n48

Table 8-99
NR Band n48 Measured P_{Limit} Antenna 3 - 40 MHz Bandwidth

NR Band n48 40 MHz Bandwidth							
			Channel			MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	638000 (3570 MHz)	641666 (3624.99 MHz)	645332 (3679.98 MHz)		
			Conducted Power [dBm]				
DFT-s-OFDM QPSK	1	1	11.90	11.72	11.94	0	0.0
	1	53	11.52	11.60	11.73		0.0
	1	104	11.82	11.52	11.81		0.0
	50	0	11.67	11.74	11.88	0-1	0.0
	50	28	11.64	11.58	11.77	0	0.0
	50	56	11.69	11.57	11.78	0-1	0.0
	100	0	11.64	11.57	11.75		0.0
DFT-s-OFDM 16QAM	1	1	11.87	11.80	11.71	0-1	0.0
CP-OFDM QPSK	1	1	11.72	11.71	11.70	0-1.5	0.0

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8.3.38

NR Band n48

Table 8-100
NR Band n48 Measured P_{Limit} Antenna 4b - 40 MHz Bandwidth

NR Band n48 40 MHz Bandwidth							
			Channel			MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	638000 (3570 MHz)	641666 (3624.99 MHz)	645332 (3679.98 MHz)		
			Conducted Power [dBm]				
DFT-s-OFDM QPSK	1	1	9.80	10.17	9.71	0	0.0
	1	53	10.05	10.08	9.72		0.0
	1	104	10.10	10.06	9.70		0.0
	50	0	9.87	10.07	9.63	0-1	0.0
	50	28	9.93	10.00	9.60	0	0.0
	50	56	9.94	9.97	9.61	0-1	0.0
	100	0	9.90	10.05	9.62		0.0
DFT-s-OFDM 16QAM	1	1	9.90	9.88	9.72	0-1	0.0
CP-OFDM QPSK	1	1	9.95	10.09	9.61	0-1.5	0.0

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8.3.39

NR Band n77 C

Table 8-101

NR Band n77 C Measured P_{Limit} Antenna 1 - 100 MHz Bandwidth

NR Band n77 100 MHz Bandwidth						
			Channel		MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	650000 (3750 MHz)	662000 (3930 MHz)		
			Conducted Power [dBm]			
DFT-s-OFDM QPSK	1	1	9.66	9.56	0	0.0
	1	137	9.75	9.65		0.0
	1	271	9.64	9.41		0.0
	135	0	9.70	9.55	0-1	0.0
	135	69	9.65	9.49	0	0.0
	135	138	9.61	9.38	0-1	0.0
	270	0	9.65	9.49		0.0
DFT-s-OFDM 16QAM	1	1	9.67	9.35	0-1	0.0
CP-OFDM QPSK	1	1	9.69	9.67	0-1.5	0.0

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8.3.40

NR Band n77 C

Table 8-102
NR Band n77 C Measured P_{Limit} Antenna 2b - 100 MHz Bandwidth

NR Band n77 100 MHz Bandwidth						
			Channel		MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	650000 (3750 MHz)	662000 (3930 MHz)		
			Conducted Power [dBm]			
DFT-s-OFDM QPSK	1	1	10.37	10.39	0	0.0
	1	137	10.23	10.37		0.0
	1	271	10.20	10.17		0.0
	135	0	10.22	10.36	0-1	0.0
	135	69	10.20	10.31	0	0.0
	135	138	10.15	10.19	0-1	0.0
	270	0	10.21	10.33		0.0
DFT-s-OFDM 16QAM	1	1	10.25	10.34	0-1	0.0
CP-OFDM QPSK	1	1	10.31	10.43	0-1.5	0.0

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8.3.41

NR Band n77 C

Table 8-103
NR Band n77 C Measured P_{Limit} Antenna 3 - 100 MHz Bandwidth

NR Band n77 100 MHz Bandwidth						
			Channel		MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	650000 (3750 MHz)	662000 (3930 MHz)		
			Conducted Power [dBm]			
DFT-s-OFDM QPSK	1	1	10.22	9.98	0	0.0
	1	137	10.36	10.07		0.0
	1	271	10.34	10.00		0.0
	135	0	10.30	10.12	0-1	0.0
	135	69	10.33	10.10	0	0.0
	135	138	10.44	10.03	0-1	0.0
	270	0	10.33	10.06		0.0
DFT-s-OFDM 16QAM	1	1	10.02	10.20	0-1	0.0
CP-OFDM QPSK	1	1	10.14	10.16	0-1.5	0.0

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8.3.42

NR Band n77 C

Table 8-104
NR Band n77 C Measured P_{Limit} Antenna 4b - 100 MHz Bandwidth

NR Band n77 100 MHz Bandwidth						
			Channel		MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	650000 (3750 MHz)	662000 (3930 MHz)		
			Conducted Power [dBm]			
DFT-s-OFDM QPSK	1	1	9.46	9.72	0	0.0
	1	137	9.51	9.48		0.0
	1	271	9.49	9.40		0.0
	135	0	9.50	9.60	0-1	0.0
	135	69	9.55	9.45	0	0.0
	135	138	9.54	9.43	0-1	0.0
	270	0	9.58	9.52		0.0
DFT-s-OFDM 16QAM	1	1	9.34	9.99	0-1	0.0
CP-OFDM QPSK	1	1	9.27	9.36	0-1.5	0.0

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NR Band n77 DoD

Table 8-105

NR Band n77 DoD Measured P_{Limit} Antenna 1 - 100 MHz Bandwidth

NR Band n77 DoD 100 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			633334 (3500.01 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	9.69	0	0.0
	1	137	9.68		0.0
	1	271	9.72		0.0
	135	0	9.76	0-1	0.0
	135	69	9.73	0	0.0
	135	138	9.77	0-1	0.0
	270	0	9.68		0.0
DFT-s-OFDM 16QAM	1	1	9.74	0-1	0.0
CP-OFDM QPSK	1	1	9.71	0-1.5	0.0

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8.3.44

NR Band n77 DoD

Table 8-106

NR Band n77 DoD Measured P_{Limit} Antenna 2b - 100 MHz Bandwidth

NR Band n77 DoD 100 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			633334 (3500.01 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	10.37	0	0.0
	1	137	10.47		0.0
	1	271	10.54		0.0
	135	0	10.45	0-1	0.0
	135	69	10.46	0	0.0
	135	138	10.50	0-1	0.0
	270	0	10.42		0.0
DFT-s-OFDM 16QAM	1	1	10.49	0-1	0.0
CP-OFDM QPSK	1	1	10.39	0-1.5	0.0

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NR Band n77 DoD

Table 8-107

NR Band n77 DoD Measured P_{Limit} Antenna 3 - 100 MHz Bandwidth

NR Band n77 DoD 100 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			633334 (3500.01 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	10.31	0	0.0
	1	137	10.40		0.0
	1	271	10.24		0.0
	135	0	10.40	0-1	0.0
	135	69	10.42	0	0.0
	135	138	10.39	0-1	0.0
	270	0	10.39		0.0
DFT-s-OFDM 16QAM	1	1	10.29	0-1	0.0
CP-OFDM QPSK	1	1	10.23	0-1.5	0.0

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8.3.46

NR Band n77 DoD

Table 8-108
NR Band n77 DoD Measured P_{Limit} Antenna 4b - 100 MHz Bandwidth

NR Band n77 DoD 100 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			633334 (3500.01 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	9.49	0	0.0
	1	137	9.66		0.0
	1	271	9.43		0.0
	135	0	9.65	0-1	0.0
	135	69	9.61	0	0.0
	135	138	9.48	0-1	0.0
	270	0	9.55		0.0
DFT-s-OFDM 16QAM	1	1	9.74	0-1	0.0
CP-OFDM QPSK	1	1	9.37	0-1.5	0.0

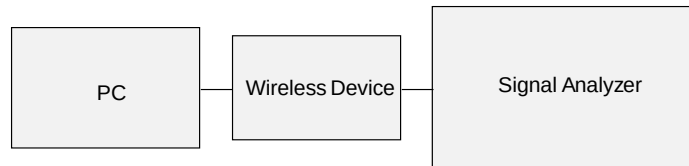


Figure 8-3
Power Measurement Setup

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8.4 WLAN Maximum Time-Averaged Conducted Powers

Table 8-109
2.4 GHz WLAN Maximum Average RF Power – Antenna 4a, Variant 1

2.4GHz WIFI (20MHz 802.11b SISO ANT 4a)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	11.08
2437	6		11.15
2462	11		11.10
2.4GHz WIFI (20MHz 802.11g SISO ANT 4a)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	10.34
2437	6		10.59
2462	11		10.32
2.4GHz WIFI (20MHz 802.11n SISO ANT 4a)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	10.31
2437	6		10.64
2462	11		10.35
2.4GHz WIFI (20MHz 802.11ax SISO ANT 4a)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	10.13
2437	6		10.55
2462	11		10.21

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Table 8-110
2.4 GHz WLAN Maximum Average RF Power – Antenna 4a, Variant 2

2.4GHz WIFI (20MHz 802.11b SISO ANT 4a)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	10.98
2437	6		11.12
2462	11		11.16
2.4GHz WIFI (20MHz 802.11g SISO ANT 4a)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	10.28
2437	6		10.67
2462	11		10.41
2.4GHz WIFI (20MHz 802.11n SISO ANT 4a)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	10.27
2437	6		10.62
2462	11		10.43
2.4GHz WIFI (20MHz 802.11ax SISO ANT 4a)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	10.14
2437	6		10.74
2462	11		10.39

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Table 8-111
2.4 GHz WLAN Maximum Average RF Power – Antenna 2a, Variant 1

2.4GHz WIFI (20MHz 802.11b SISO ANT 2a)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	11.15
2437	6		11.15
2462	11		11.28
2.4GHz WIFI (20MHz 802.11g SISO ANT 2a)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	10.36
2437	6		10.61
2462	11		10.33
2.4GHz WIFI (20MHz 802.11n SISO ANT1)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	10.38
2437	6		10.58
2462	11		10.37
2.4GHz WIFI (20MHz 802.11ax SISO ANT 2a)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	10.32
2437	6		10.55
2462	11		10.27

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Table 8-112
2.4 GHz WLAN Maximum Average RF Power – Antenna 2a, Variant 2

2.4GHz WIFI (20MHz 802.11b SISO ANT 2a)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	11.27
2437	6		11.30
2462	11		11.23
2.4GHz WIFI (20MHz 802.11g SISO ANT 2a)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	10.01
2437	6		10.60
2462	11		10.25
2.4GHz WIFI (20MHz 802.11n SISO ANT 2a)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	10.01
2437	6		10.41
2462	11		10.20
2.4GHz WIFI (20MHz 802.11ax SISO ANT 2a)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	10.15
2437	6		10.81
2462	11		10.31

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Table 8-113
5 GHz WLAN Maximum Average RF Power – Antenna WF5B, Variant 1

5GHz WIFI (40MHz 802.11n SISO ANT WF5B)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	13.50
	5230	46	16.60
UNII-2A	5270	54	15.33
	5310	62	15.22
5GHz WIFI (80MHz 802.11ac SISO ANT WF5B)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-2C	5530	106	14.79
	5610	122	14.80
	5690	138	14.84
UNII-3	5775	155	15.51
5GHz WIFI (40MHz 802.11ac SISO ANT WF5B)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	13.46
	5230	46	16.48
UNII-2A	5270	54	15.21
	5310	62	15.24
5GHz WIFI (40MHz 802.11ax SISO ANT WF5B)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	13.11
	5230	46	16.18
UNII-2A	5270	54	15.27
	5310	62	15.21
5GHz WIFI (80MHz 802.11ax SISO ANT WF5B)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-2C	5530	106	14.01
	5610	122	15.38
	5690	138	15.03
UNII-3	5775	155	17.10

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Table 8-114
5 GHz WLAN Maximum Average RF Power – Antenna WF5B, Variant 2

5GHz WIFI (40MHz 802.11n SISO ANT WF5B)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	13.44
	5230	46	16.57
UNII-2A	5270	54	15.03
	5310	62	15.27
5GHz WIFI (80MHz 802.11ac SISO ANT WF5B)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-2C	5530	106	14.85
	5610	122	14.80
	5690	138	14.84
UNII-3	5775	155	15.55
5GHz WIFI (40MHz 802.11ac SISO ANT WF5B)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	13.36
	5230	46	16.49
UNII-2A	5270	54	15.23
	5310	62	15.20
5GHz WIFI (40MHz 802.11ax SISO ANT WF5B)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	13.20
	5230	46	16.45
UNII-2A	5270	54	14.95
	5310	62	14.90
5GHz WIFI (80MHz 802.11ax SISO ANT WF5B)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-2C	5530	106	14.17
	5610	122	15.25
	5690	138	15.10
UNII-3	5775	155	16.10

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Table 8-115
5 GHz WLAN Maximum Average RF Power – Antenna 4a, Variant 1

5GHz WIFI (80MHz 802.11ac SISO ANT 4a)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5210	42	6.29
UNII-2A	5290	58	7.00
UNII-2C	5530	106	7.65
	5610	122	7.55
	5690	138	7.63
UNII-3	5775	155	7.35
5GHz WIFI (80MHz 802.11ax SISO ANT 4a)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5210	42	6.17
UNII-2A	5290	58	6.94
UNII-2C	5530	106	7.59
	5610	122	7.78
	5690	138	7.15
UNII-3	5775	155	7.98

Table 8-116
5 GHz WLAN Maximum Average RF Power – Antenna 4a, Variant 2

5GHz WIFI (80MHz 802.11ac SISO ANT 4a)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5210	42	6.15
UNII-2A	5290	58	7.00
UNII-2C	5530	106	7.59
	5610	122	7.54
	5690	138	7.47
UNII-3	5775	155	7.53
5GHz WIFI (80MHz 802.11ax SISO ANT 4a)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5210	42	6.10
UNII-2A	5290	58	6.86
UNII-2C	5530	106	7.80
	5610	122	7.70
	5690	138	7.68
UNII-3	5775	155	8.08

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Table 8-117
5 GHz WLAN Maximum Average RF Power – Antenna 2a, Variant 1

5GHz WIFI (80MHz 802.11ac SISO ANT 2a)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5210	42	8.14
UNII-2A	5290	58	6.03
UNII-2C	5530	106	7.65
	5610	122	7.46
	5690	138	7.66
UNII-3	5775	155	8.85
5GHz WIFI (80MHz 802.11ax SISO ANT 2a)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5210	42	7.20
UNII-2A	5290	58	6.18
UNII-2C	5530	106	8.05
	5610	122	7.99
	5690	138	8.00
UNII-3	5775	155	8.71

Table 8-118
5 GHz WLAN Maximum Average RF Power – Antenna 2a, Variant 2

5GHz WIFI (80MHz 802.11ac SISO ANT 2a)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5210	42	8.02
UNII-2A	5290	58	5.98
UNII-2C	5530	106	7.60
	5610	122	7.31
	5690	138	7.29
UNII-3	5775	155	8.96
5GHz WIFI (80MHz 802.11ax SISO ANT 2a)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5210	42	7.09
UNII-2A	5290	58	6.26
UNII-2C	5530	106	7.94
	5610	122	8.15
	5690	138	8.09
UNII-3	5775	155	8.80

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Table 8-119
6 GHz WLAN Maximum Average RF Power – Antenna WF5B, Variant 1

6GHz WIFI (160MHz 802.11ax SISO ANT WF5B)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-5	6025	15	14.71
	6345	79	14.19
UNII-6	6505	111	12.60
UNII-7	6665	143	12.94
UNII-8	6985	207	12.32

Table 8-120
6 GHz WLAN Maximum Average RF Power – Antenna WF5B, Variant 2

6GHz WIFI (160MHz 802.11ax SISO ANT WF5B)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-5	6025	15	14.95
	6345	79	14.16
UNII-6	6505	111	12.77
UNII-7	6665	143	12.76
UNII-8	6985	207	12.33

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Table 8-121
6 GHz WLAN Maximum Average RF Power – Antenna 4a, Variant 1

6GHz WIFI (160MHz 802.11ax SISO ANT 4a)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-5	6025	15	5.82
	6345	79	7.35
UNII-6	6505	111	6.57
UNII-7	6665	143	6.76
UNII-8	6985	207	7.35

Table 8-122
6 GHz WLAN Maximum Average RF Power – Antenna 4a, Variant 2

6GHz WIFI (160MHz 802.11ax SISO ANT 4a)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-5	6025	15	6.05
	6345	79	7.32
UNII-6	6505	111	6.76
UNII-7	6665	143	6.79
UNII-8	6985	207	7.99

Table 8-123
6 GHz WLAN Maximum Average RF Power – Antenna 2a, Variant 1

6GHz WIFI (160MHz 802.11ax SISO ANT 2a)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-5	6025	15	9.47
	6345	79	7.08
UNII-6	6505	111	5.91
UNII-7	6665	143	7.80
UNII-8	6985	207	6.60

Table 8-124
6 GHz WLAN Maximum Average RF Power – Antenna 2a, Variant 2

6GHz WIFI (160MHz 802.11ax SISO ANT 2a)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-5	6025	15	9.73
	6345	79	6.72
UNII-6	6505	111	6.07
UNII-7	6665	143	7.82
UNII-8	6985	207	6.37

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8.5 WLAN Reduced Time-Averaged Conducted Powers

Table 8-125
2.4 GHz WLAN Reduced 5.5db Average RF Power – Antenna 4a, Variant 1

2.4GHz WIFI (20MHz 802.11b SISO ANT 4a)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	5.10
2437	6		5.15
2462	11		5.20
2.4GHz WIFI (20MHz 802.11g SISO ANT 4a)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	4.80
2437	6		4.96
2462	11		5.01
2.4GHz WIFI (20MHz 802.11n SISO ANT 4a)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	4.89
2437	6		4.94
2462	11		5.06
2.4GHz WIFI (20MHz 802.11ax SISO ANT 4a)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	4.89
2437	6		4.96
2462	11		5.06

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Table 8-126
2.4 GHz WLAN Reduced 5.5db Average RF Power – Antenna 4a, Variant 2

2.4GHz WIFI (20MHz 802.11b SISO ANT 4a)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	5.19
2437	6		5.16
2462	11		5.41
2.4GHz WIFI (20MHz 802.11g SISO ANT 4a)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	4.98
2437	6		4.91
2462	11		5.08
2.4GHz WIFI (20MHz 802.11n SISO ANT 4a)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	4.96
2437	6		4.93
2462	11		5.05
2.4GHz WIFI (20MHz 802.11ax SISO ANT 4a)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	5.01
2437	6		4.99
2462	11		5.11

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Table 8-127
2.4 GHz WLAN Reduced 5.5db Average RF Power – Antenna 2a, Variant 1

2.4GHz WIFI (20MHz 802.11b SISO ANT 2a)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	5.57
2437	6		5.44
2462	11		5.62
2.4GHz WIFI (20MHz 802.11g SISO ANT 2a)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	5.28
2437	6		5.35
2462	11		5.31
2.4GHz WIFI (20MHz 802.11n SISO ANT 2a)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	5.30
2437	6		5.39
2462	11		5.36
2.4GHz WIFI (20MHz 802.11ax SISO ANT 2a)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	5.22
2437	6		5.29
2462	11		5.34

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Table 8-128
2.4 GHz WLAN Reduced 5.5db Average RF Power – Antenna 2a, Variant 2

2.4GHz WIFI (20MHz 802.11b SISO ANT 2a)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	5.56
2437	6		5.55
2462	11		5.71
2.4GHz WIFI (20MHz 802.11g SISO ANT 2a)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	5.00
2437	6		5.09
2462	11		5.05
2.4GHz WIFI (20MHz 802.11n SISO ANT 2a)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	4.90
2437	6		5.08
2462	11		5.12
2.4GHz WIFI (20MHz 802.11ax SISO ANT 2a)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	4.82
2437	6		4.91
2462	11		5.01

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Table 8-129
5 GHz WLAN Reduced 5.5db Average RF Power – Antenna 4a, Variant 1

5GHz WIFI (80MHz 802.11ac SISO ANT 4a)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5210	42	0.54
UNII-2A	5290	58	1.10
UNII-2C	5530	106	2.76
	5610	122	2.70
	5690	138	2.32
UNII-3	5775	155	2.70
5GHz WIFI (80MHz 802.11ax SISO ANT 4a)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5210	42	0.45
UNII-2A	5290	58	1.20
UNII-2C	5530	106	2.41
	5610	122	2.43
	5690	138	2.46
UNII-3	5775	155	2.70

Table 8-130
5 GHz WLAN Reduced 5.5db Average RF Power – Antenna 4a, Variant 2

5GHz WIFI (80MHz 802.11ac SISO ANT 4a)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5210	42	0.41
UNII-2A	5290	58	1.71
UNII-2C	5530	106	2.58
	5610	122	2.70
	5690	138	2.51
UNII-3	5775	155	2.85
5GHz WIFI (80MHz 802.11ax SISO ANT2)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5210	42	0.60
UNII-2A	5290	58	1.51
UNII-2C	5530	106	2.41
	5610	122	2.46
	5690	138	2.42
UNII-3	5775	155	2.71

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Table 8-131
5 GHz WLAN Reduced 5.5db Average RF Power – Antenna 2a, Variant 1

5GHz WIFI (80MHz 802.11ac SISO ANT 2a)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5210	42	1.73
UNII-2A	5290	58	0.63
UNII-2C	5530	106	3.04
	5610	122	2.69
	5690	138	2.58
UNII-3	5775	155	3.66
5GHz WIFI (80MHz 802.11ax SISO ANT 2a)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5210	42	1.50
UNII-2A	5290	58	0.41
UNII-2C	5530	106	2.71
	5610	122	2.74
	5690	138	2.65
UNII-3	5775	155	3.34

Table 8-132
5 GHz WLAN Reduced 5.5db Average RF Power – Antenna 2a, Variant 2

5GHz WIFI (80MHz 802.11ac SISO ANT 2a)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5210	42	2.91
UNII-2A	5290	58	0.49
UNII-2C	5530	106	2.86
	5610	122	2.63
	5690	138	2.57
UNII-3	5775	155	3.57
5GHz WIFI (80MHz 802.11ax SISO ANT 2a)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5210	42	1.85
UNII-2A	5290	58	0.61
UNII-2C	5530	106	2.71
	5610	122	2.62
	5690	138	2.55
UNII-3	5775	155	3.48

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Table 8-133
6 GHz WLAN Reduced 5.5db Average RF Power – Antenna 4a, Variant 1

6GHz WIFI (160MHz 802.11ax SISO ANT 4a)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-5	6025	15	1.58
	6345	79	2.29
UNII-6	6505	111	2.06
UNII-7	6665	143	1.83
UNII-8	6985	207	1.77

Table 8-134
6 GHz WLAN Reduced 5.5db Average RF Power – Antenna 4a, Variant 2

6GHz WIFI (160MHz 802.11ax SISO ANT 4a)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-5	6025	15	2.10
	6345	79	2.52
UNII-6	6505	111	2.16
UNII-7	6665	143	1.88
UNII-8	6985	207	1.93

Table 8-135
6 GHz WLAN Reduced 5.5db Average RF Power – Antenna 2a, Variant 1

6GHz WIFI (160MHz 802.11ax SISO ANT 2a)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-5	6025	15	3.75
	6345	79	1.90
UNII-6	6505	111	2.05
UNII-7	6665	143	3.80
UNII-8	6985	207	2.35

Table 8-136
6 GHz WLAN Reduced 5.5db Average RF Power – Antenna 2a, Variant 2

6GHz WIFI (160MHz 802.11ax SISO ANT 2a)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-5	6025	15	3.53
	6345	79	2.05
UNII-6	6505	111	1.84
UNII-7	6665	143	3.87
UNII-8	6985	207	1.97

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8.6 WLAN Power Reduction Verification Summary

Table 8-137
WLAN 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 2A	2.4 GHz WLAN	Main Band 2B ON	12	6.5	10.7	5.65	PASS
	2.4 GHz WLAN	ULCA ON	12	6.5	10.7	5.92	PASS
Ant 4A	2.4 GHz WLAN	Main Band 3 ON	11.75	6.25	11.6	5.31	PASS
	2.4 GHz WLAN	Main Band 4B ON	11.75	6.25	11.6	5.42	PASS
	2.4 GHz WLAN	ULCA ON	11.75	6.25	11.6	6.02	PASS
Ant 2A	5 GHz WLAN	Main Band 2B ON	10	4.5	9.05	3.71	PASS
	5 GHz WLAN	ULCA ON	10	4.5	9.05	3.74	PASS
Ant 4A	5 GHz WLAN	Main Band 3 ON	9.25	3.75	9.03	2.98	PASS
	5 GHz WLAN	Main Band 4B ON	9.25	3.75	9.03	2.52	PASS
	5 GHz WLAN	ULCA ON	9.25	3.75	9.03	3.19	PASS
Ant 2A	6 GHz WLAN	Main Band 2B ON	10	4.5	8.56	2.87	PASS
	6 GHz WLAN	ULCA ON	10	4.5	8.56	3.27	PASS
Ant 4A	6 GHz WLAN	Main Band 3 ON	7.75	2.25	7.41	1.23	PASS
	6 GHz WLAN	Main Band 4B ON	7.75	2.25	7.41	1.13	PASS
	6 GHz WLAN	ULCA ON	7.75	2.25	7.41	1.08	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..

8.7 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 structure 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.

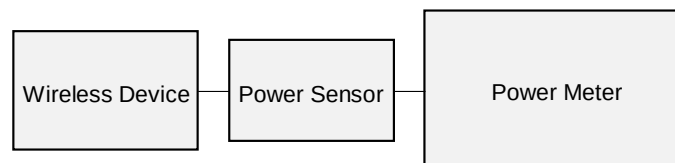


Figure 8-4
Power Measurement Setup

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8.8 Bluetooth Maximum Conducted Powers

Table 8-138
Bluetooth Maximum Average RF Power – Antenna 4a, Variant 1

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	11.70	14.791
2441	GFSK	1.0	39	11.98	15.776
2480	GFSK	1.0	78	11.64	14.588

Table 8-139
Bluetooth Maximum Average RF Power – Antenna 4a, Variant 2

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	11.88	15.417
2441	GFSK	1.0	39	11.96	15.704
2480	GFSK	1.0	78	11.79	15.101

Table 8-140
Bluetooth Maximum Average RF Power – Antenna 2a, Variant 1

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	11.48	14.060
2441	GFSK	1.0	39	11.70	14.791
2480	GFSK	1.0	78	11.74	14.928

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Table 8-141
Bluetooth Maximum Average RF Power – Antenna 2a, Variant 2

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	11.40	13.804
2441	GFSK	1.0	39	11.45	13.964
2480	GFSK	1.0	78	11.75	14.962

8.9 802.15.4 Maximum Conducted Powers

Table 8-141
802.15.4 Maximum Average RF Power – Antenna 4a, Variant 1

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2405	O-QPSK	1.0	11	11.95	15.668
2440	O-QPSK	1.0	18	11.94	15.631
2475	O-QPSK	1.0	25	11.80	15.136

Table 8-142
802.15.4 Maximum Average RF Power – Antenna 4a, Variant 2

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2405	O-QPSK	1.0	11	12.20	16.596
2440	O-QPSK	1.0	18	12.19	16.558
2475	O-QPSK	1.0	25	12.25	16.788

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Table 8-143
802.15.4 Maximum Average RF Power – Antenna 2a, Variant 1

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2405	O-QPSK	1.0	11	12.98	19.861
2440	O-QPSK	1.0	18	12.62	18.281
2475	O-QPSK	1.0	25	12.31	17.022

Table 8-144
802.15.4 Maximum Average RF Power – Antenna 2a, Variant 2

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2405	O-QPSK	1.0	11	12.82	19.143
2440	O-QPSK	1.0	18	12.52	17.865
2475	O-QPSK	1.0	25	12.41	17.418

8.10 NB UNII Maximum Conducted Powers

Table 8-145
NB UNII-1 Maximum Average RF Power – Antenna WF5B, Variant 1

Type	Band	Frequency	Channel	Average
HDR-4	U-NII 1	5162	Low	10.66
		5204	Mid	10.73
		5245	High	10.81

Table 8-146
NB UNII-1 Maximum Average RF Power – Antenna WF5B, Variant 2

Type	Band	Frequency	Channel	Average
HDR-4	U-NII 1	5162	Low	10.59
		5204	Mid	10.53
		5245	High	10.51

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Table 8-147
NB UNII-1 Maximum Average RF Power – Antenna 4a, Variant 1

Type	Band	Frequency	Channel	Average
BDR	U-NII 1	5162	Low	6.77
		5204	Mid	6.64
		5245	High	6.72

Table 8-148
NB UNII-1 Maximum Average RF Power – Antenna 4a, Variant 2

Type	Band	Frequency	Channel	Average
BDR	U-NII 1	5162	Low	7.16
		5204	Mid	6.66
		5245	High	6.96

Table 8-149
NB UNII-1 Maximum Average RF Power – Antenna 2a, Variant 1

Type	Band	Frequency	Channel	Average
BDR	U-NII 1	5162	Low	8.51
		5204	Mid	8.53
		5245	High	8.57

Table 8-150
NB UNII-1 Maximum Average RF Power – Antenna 2a, Variant 2

Type	Band	Frequency	Channel	Average
BDR	U-NII 1	5162	Low	8.35
		5204	Mid	8.48
		5245	High	8.6

Table 8-151
NB UNII-3 Maximum Average RF Power – Antenna WF5B, Variant 1

Type	Band	Frequency	Channel	Average
BDR	U-NII 3	5733	Low	11.58
		5789	Mid	11.55
		5844	High	11.56

Table 8-152
NB UNII-3 Maximum Average RF Power – Antenna WF5B, Variant 2

Type	Band	Frequency	Channel	Average
BDR	U-NII 3	5733	Low	11.55
		5789	Mid	11.52
		5844	High	11.55

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Table 8-153
NB UNII-3 Maximum Average RF Power – Antenna 4a, Variant 1

Type	Band	Frequency	Channel	Average
BDR	U-NII 3	5733	Low	8.94
		5789	Mid	8.97
		5844	High	9.07

Table 8-154
NB UNII-3 Maximum Average RF Power – Antenna 4a, Variant 2

Type	Band	Frequency	Channel	Average
BDR	U-NII 3	5733	Low	8.72
		5789	Mid	8.9
		5844	High	8.77

Table 8-155
NB UNII-3 Maximum Average RF Power – Antenna 2a, Variant 1

Type	Band	Frequency	Channel	Average
BDR	U-NII 3	5733	Low	10.41
		5789	Mid	10.49
		5844	High	10.41

Table 8-156
NB UNII-3 Maximum Average RF Power – Antenna 2a, Variant 2

Type	Band	Frequency	Channel	Average
BDR	U-NII 3	5733	Low	10.49
		5789	Mid	10.82
		5844	High	10.77

8.11 Bluetooth Reduced Conducted Powers

Table 8-157
Bluetooth Reduced 3db Average RF Power – Antenna 4a, Variant 1

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	8.47	7.031
2441	GFSK	1.0	39	8.52	7.112
2480	GFSK	1.0	78	8.30	6.761

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Table 8-158
Bluetooth Reduced 3db Average RF Power – Antenna 4a, Variant 2

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	8.70	7.413
2441	GFSK	1.0	39	8.67	7.362
2480	GFSK	1.0	78	8.65	7.328

Table 8-159
Bluetooth Reduced 3db Average RF Power – Antenna 2a, Variant 1

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	8.51	7.096
2441	GFSK	1.0	39	8.87	7.709
2480	GFSK	1.0	78	8.25	6.683

Table 8-160
Bluetooth Reduced 3db Average RF Power – Antenna 2a, Variant 2

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	8.40	6.918
2441	GFSK	1.0	39	8.48	7.047
2480	GFSK	1.0	78	8.15	6.531

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Table 8-161
Bluetooth Reduced 6db Average RF Power – Antenna 4a, Variant 1

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	5.41	3.475
2441	GFSK	1.0	39	5.46	3.516
2480	GFSK	1.0	78	5.37	3.443

Table 8-162
Bluetooth Reduced 6db Average RF Power – Antenna 4a, Variant 2

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	5.54	3.581
2441	GFSK	1.0	39	5.71	3.724
2480	GFSK	1.0	78	5.67	3.690

Table 8-163
Bluetooth Reduced 6db Average RF Power – Antenna 2a, Variant 1

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	5.56	3.597
2441	GFSK	1.0	39	5.93	3.917
2480	GFSK	1.0	78	5.55	3.589

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Table 8-164
Bluetooth Reduced 6db Average RF Power – Antenna 2a, Variant 2

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	5.27	3.365
2441	GFSK	1.0	39	5.56	3.597
2480	GFSK	1.0	78	5.34	3.420

Table 8-165
Bluetooth Reduced 7db Average RF Power – Antenna 4a, Variant 1

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	4.32	2.704
2441	GFSK	1.0	39	4.52	2.831
2480	GFSK	1.0	78	4.29	2.685

Table 8-166
Bluetooth Reduced 7db Average RF Power – Antenna 4a, Variant 2

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	4.65	2.917
2441	GFSK	1.0	39	4.62	2.897
2480	GFSK	1.0	78	4.73	2.972

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Table 8-167
Bluetooth Reduced 7db Average RF Power – Antenna 2a, Variant 1

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	4.71	2.958
2441	GFSK	1.0	39	4.87	3.069
2480	GFSK	1.0	78	4.52	2.831

Table 8-168
Bluetooth Reduced 7db Average RF Power – Antenna 2a, Variant 2

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	4.41	2.761
2441	GFSK	1.0	39	4.49	2.812
2480	GFSK	1.0	78	4.19	2.624

8.12 802.15.4 Reduced Conducted Powers

Table 8-169
802.15.4 Reduced 3db Average RF Power – Antenna 4a, Variant 1

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2405	O-QPSK	1.0	11	9.40	8.710
2440	O-QPSK	1.0	18	9.38	8.670
2475	O-QPSK	1.0	25	9.48	8.872

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Table 8-170
802.15.4 Reduced 3db Average RF Power – Antenna 4a, Variant 2

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2405	O-QPSK	1.0	11	9.55	9.016
2440	O-QPSK	1.0	18	9.75	9.441
2475	O-QPSK	1.0	25	9.70	9.333

Table 8-171
802.15.4 Reduced 3db Average RF Power – Antenna 2a, Variant 1

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2405	O-QPSK	1.0	11	9.11	8.147
2440	O-QPSK	1.0	18	9.51	8.933
2475	O-QPSK	1.0	25	8.88	7.727

Table 8-172
802.15.4 Reduced 3db Average RF Power – Antenna 2a, Variant 2

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2405	O-QPSK	1.0	11	8.77	7.534
2440	O-QPSK	1.0	18	9.18	8.279
2475	O-QPSK	1.0	25	8.53	7.129

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Table 8-173
802.15.4 Reduced 6db Average RF Power – Antenna 4a, Variant 1

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2405	O-QPSK	1.0	11	6.47	4.436
2440	O-QPSK	1.0	18	6.27	4.236
2475	O-QPSK	1.0	25	6.42	4.385

Table 8-174
802.15.4 Reduced 6db Average RF Power – Antenna 4a, Variant 2

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2405	O-QPSK	1.0	11	6.15	4.121
2440	O-QPSK	1.0	18	6.21	4.178
2475	O-QPSK	1.0	25	6.16	4.130

Table 8-175
802.15.4 Reduced 6db Average RF Power – Antenna 2a, Variant 1

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2405	O-QPSK	1.0	11	6.24	4.207
2440	O-QPSK	1.0	18	6.44	4.406
2475	O-QPSK	1.0	25	5.96	3.945

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Table 8-176
802.15.4 Reduced 6db Average RF Power – Antenna 2a, Variant 2

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2405	O-QPSK	1.0	11	6.01	3.990
2440	O-QPSK	1.0	18	6.25	4.217
2475	O-QPSK	1.0	25	5.83	3.828

Table 8-177
802.15.4 Reduced 7db Average RF Power – Antenna 4a, Variant 1

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2405	O-QPSK	1.0	11	5.55	3.589
2440	O-QPSK	1.0	18	5.75	3.758
2475	O-QPSK	1.0	25	5.53	3.573

Table 8-178
802.15.4 Reduced 7db Average RF Power – Antenna 4a, Variant 2

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2405	O-QPSK	1.0	11	5.40	3.467
2440	O-QPSK	1.0	18	5.26	3.357
2475	O-QPSK	1.0	25	5.31	3.396

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Table 8-179
802.15.4 Reduced 7db Average RF Power – Antenna 2a, Variant 1

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2405	O-QPSK	1.0	11	5.40	3.467
2440	O-QPSK	1.0	18	5.51	3.556
2475	O-QPSK	1.0	25	5.06	3.206

Table 8-180
802.15.4 Reduced 7db Average RF Power – Antenna 2a, Variant 2

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2405	O-QPSK	1.0	11	4.96	3.133
2440	O-QPSK	1.0	18	5.23	3.334
2475	O-QPSK	1.0	25	4.86	3.062

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8.13 NB UNII Reduced Conducted Powers

Table 8-181
NB UNII-1 3db Reduced Average RF Power – Antenna 4a, Variant 1

Type	Band	Frequency	Frequency	Average
BDR	U-NII 1	5162	Low	4.93
		5204	Mid	5.01
		5245	High	5.48

Table 8-182
NB UNII-1 3db Reduced Average RF Power – Antenna 4a, Variant 2

Type	Band	Frequency	Frequency	Average
BDR	U-NII 1	5162	Low	5.40
		5204	Mid	5.09
		5245	High	5.25

Table 8-183
NB UNII-1 3db Reduced Average RF Power – Antenna 2a, Variant 1

Type	Band	Frequency	Frequency	Average
BDR	U-NII 1	5162	Low	5.52
		5204	Mid	5.56
		5245	High	5.45

Table 8-184
NB UNII-1 3db Reduced Average RF Power – Antenna 2a, Variant 2

Type	Band	Frequency	Frequency	Average
BDR	U-NII 1	5162	Low	5.38
		5204	Mid	5.51
		5245	High	5.49

Table 8-185
NB UNII-1 6db Reduced Average RF Power – Antenna 4a, Variant 1

Type	Band	Frequency	Frequency	Average
BDR	U-NII 1	5162	Low	1.55
		5204	Mid	1.54
		5245	High	2.16

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Table 8-186
NB UNII-1 6db Reduced Average RF Power – Antenna 4a, Variant 2

Type	Band	Frequency	Frequency	Average
BDR	U-NII 1	5162	Low	2.18
		5204	Mid	1.67
		5245	High	1.86

Table 8-187
NB UNII-1 6db Reduced Average RF Power – Antenna 2a, Variant 1

Type	Band	Frequency	Frequency	Average
BDR	U-NII 1	5162	Low	2.24
		5204	Mid	2.48
		5245	High	2.65

Table 8-188
NB UNII-1 6db Reduced Average RF Power – Antenna 2a, Variant 2

Type	Band	Frequency	Frequency	Average
BDR	U-NII 1	5162	Low	2.3
		5204	Mid	2.33
		5245	High	2.65

Table 8-189
NB UNII-1 7db Reduced Average RF Power – Antenna 4a, Variant 1

Type	Band	Frequency	Frequency	Average
BDR	U-NII 1	5162	Low	0.27
		5204	Mid	0.43
		5245	High	0.94

Table 8-190
NB UNII-1 7db Reduced Average RF Power – Antenna 4a, Variant 2

Type	Band	Frequency	Frequency	Average
BDR	U-NII 1	5162	Low	1.14
		5204	Mid	0.84
		5245	High	1.05

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Table 8-191
NB UNII-1 7db Reduced Average RF Power – Antenna 2a, Variant 1

Type	Band	Frequency	Frequency	Average
BDR	U-NII 1	5162	Low	2.24
		5204	Mid	2.48
		5245	High	2.65

Table 8-192
NB UNII-1 7db Reduced Average RF Power – Antenna 2a, Variant 2

Type	Band	Frequency	Frequency	Average
BDR	U-NII 1	5162	Low	1.64
		5204	Mid	1.41
		5245	High	1.59

Table 8-193
NB UNII-3 3db Reduced Average RF Power – Antenna WF5B, Variant 1

Type	Band	Frequency	Frequency	Average
BDR	U-NII 3	5733	Low	11.13
		5789	Mid	11.03
		5844	High	11.02

Table 8-194
NB UNII-3 3db Reduced Average RF Power – Antenna WF5B, Variant 2

Type	Band	Frequency	Frequency	Average
BDR	U-NII 3	5733	Low	11.11
		5789	Mid	11.02
		5844	High	11.01

Table 8-195
NB UNII-3 3db Reduced Average RF Power – Antenna 4a, Variant 1

Type	Band	Frequency	Frequency	Average
BDR	U-NII 3	5733	Low	6.53
		5789	Mid	6.29
		5844	High	6.31

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Table 8-196
NB UNII-3 3db Reduced Average RF Power – Antenna 4a, Variant 2

Type	Band	Frequency	Frequency	Average
BDR	U-NII 3	5733	Low	6.07
		5789	Mid	6.15
		5844	High	6.28

Table 8-197
NB UNII-3 3db Reduced Average RF Power – Antenna 2a, Variant 1

Type	Band	Frequency	Frequency	Average
BDR	U-NII 3	5733	Low	7.25
		5789	Mid	7.22
		5844	High	7.41

Table 8-198
NB UNII-3 3db Reduced Average RF Power – Antenna 2a, Variant 2

Type	Band	Frequency	Frequency	Average
BDR	U-NII 3	5733	Low	7.10
		5789	Mid	7.17
		5844	High	7.15

Table 8-199
NB UNII-3 6db Reduced Average RF Power – Antenna 4a, Variant 1

Type	Band	Frequency	Frequency	Average
BDR	U-NII 3	5733	Low	3.51
		5789	Mid	3.36
		5844	High	3.53

Table 8-200
NB UNII-3 6db Reduced Average RF Power – Antenna 4a, Variant 2

Type	Band	Frequency	Frequency	Average
BDR	U-NII 3	5733	Low	3.14
		5789	Mid	3.33
		5844	High	3.45

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Table 8-201
NB UNII-3 6db Reduced Average RF Power – Antenna 2a, Variant 1

Type	Band	Frequency	Frequency	Average
BDR	U-NII 3	5733	Low	4.10
		5789	Mid	3.89
		5844	High	3.98

Table 8-202
NB UNII-3 6db Reduced Average RF Power – Antenna 2a, Variant 2

Type	Band	Frequency	Frequency	Average
BDR	U-NII 3	5733	Low	4.14
		5789	Mid	3.63
		5844	High	3.80

Table 8-203
NB UNII-3 7db Reduced Average RF Power – Antenna 4a, Variant 1

Type	Band	Frequency	Frequency	Average
BDR	U-NII 3	5733	Low	2.62
		5789	Mid	2.39
		5844	High	2.41

Table 8-204
NB UNII-3 7db Reduced Average RF Power – Antenna 4a, Variant 2

Type	Band	Frequency	Frequency	Average
BDR	U-NII 3	5733	Low	2.25
		5789	Mid	2.35
		5844	High	2.49

Table 8-205
NB UNII-3 7db Reduced Average RF Power – Antenna 2a, Variant 1

Type	Band	Frequency	Frequency	Average
BDR	U-NII 3	5733	Low	3.66
		5789	Mid	3.37
		5844	High	3.52

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Table 8-206
NB UNII-3 7db Reduced Average RF Power – Antenna 2a, Variant 2

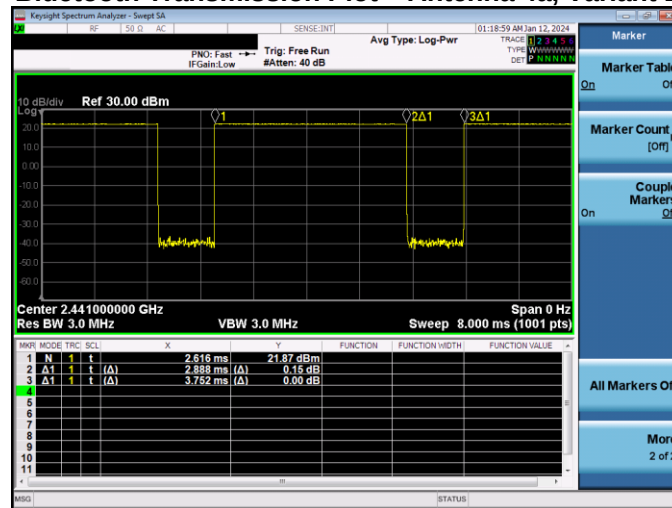
Type	Band	Frequency	Frequency	Average
BDR	U-NII 3	5733	Low	3.4
		5789	Mid	3.06
		5844	High	3.18

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8.14 Bluetooth Duty Cycle Plots

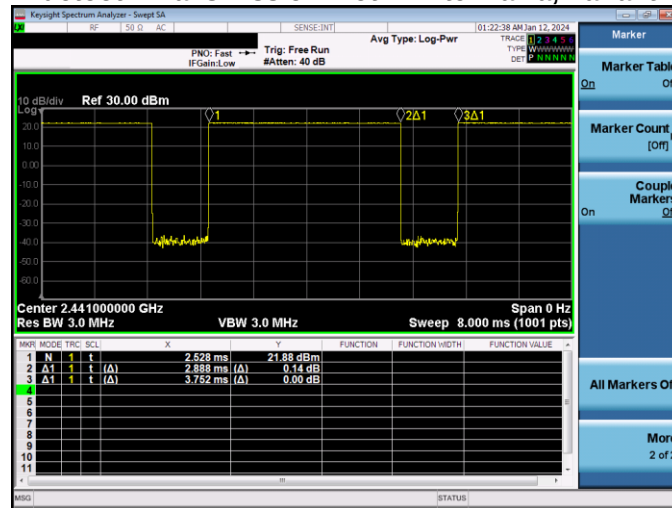
Figure 8-5
Bluetooth Transmission Plot – Antenna 4a, Variant 1



Equation 8-1
Bluetooth Duty Cycle Calculation – Antenna 4a, Variant 1

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

Figure 8-6
Bluetooth Transmission Plot – Antenna 4a, Variant 2



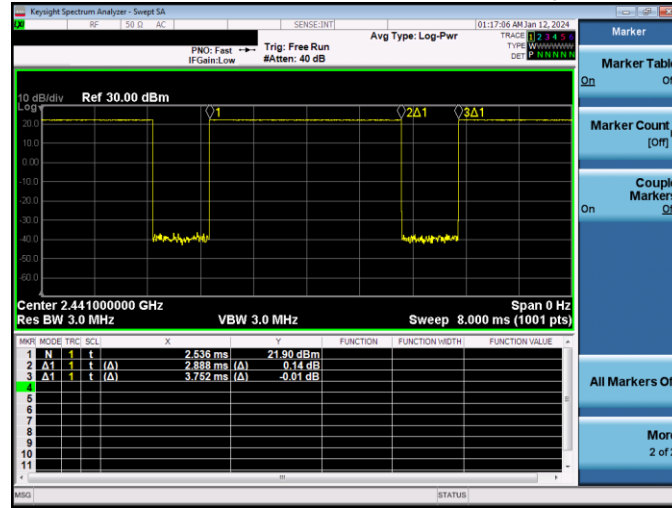
Equation 8-2
Bluetooth Duty Cycle Calculation – Antenna 4a, Variant 2

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

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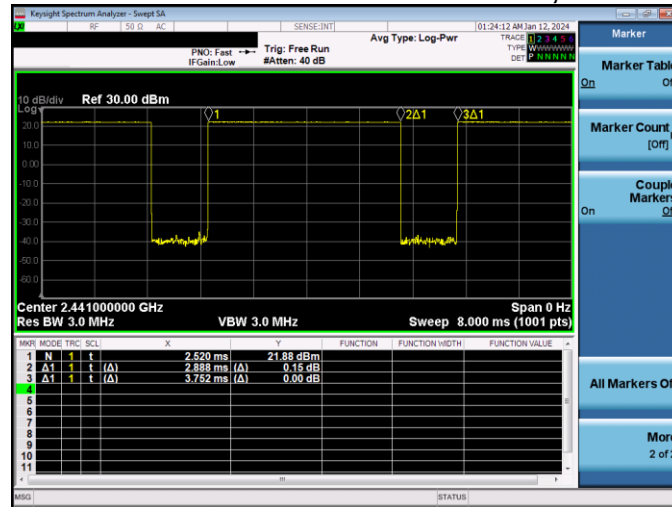
Figure 8-7
Bluetooth Transmission Plot – Antenna 2a, Variant 1



Equation 8-3
Bluetooth Duty Cycle Calculation – Antenna 2a, Variant 1

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

Figure 8-8
Bluetooth Transmission Plot – Antenna 2a, Variant 2



Equation 8-4
Bluetooth Duty Cycle Calculation – Antenna 2a, 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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8.15 802.15.4 Duty Cycle Plots

Figure 8-9
802.15.4 Transmission Plot – Antenna 4a/2a, Variant 1



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

Equation 8-5
802.15.4 Duty Cycle Calculation – Antenna 4a/2a, Variant 1

$$\text{Duty Cycle} = \frac{\text{Pulse Width}}{\text{Period}} * 100\% = \frac{3.460 \text{ ms}}{5.882 \text{ ms}} * 100\% = 59\%$$

Figure 8-10
802.15.4 Transmission Plot – Antenna 4a/2a, Variant 2



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

Equation 8-6
802.15.4 Duty Cycle Calculation – Antenna 4a/2a, Variant 2

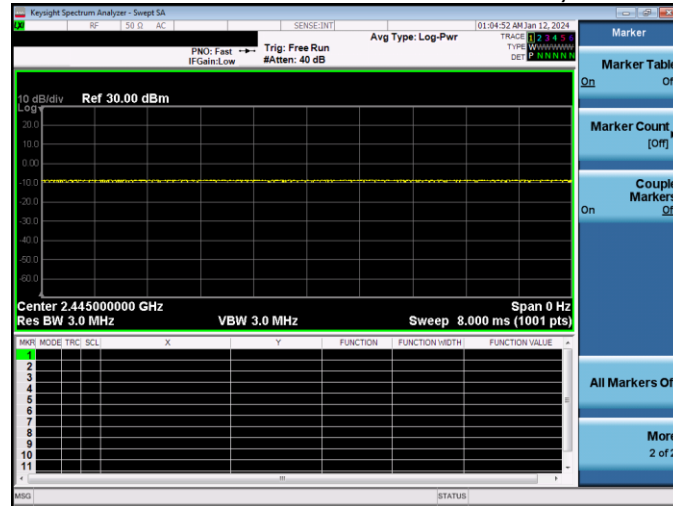
$$\text{Duty Cycle} = \frac{\text{Pulse Width}}{\text{Period}} * 100\% = \frac{3.450 \text{ ms}}{5.882 \text{ ms}} * 100\% = 59\%$$

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Figure 8-11
802.15.4 Transmission Plot – Antenna 4a/2a, Variant 1

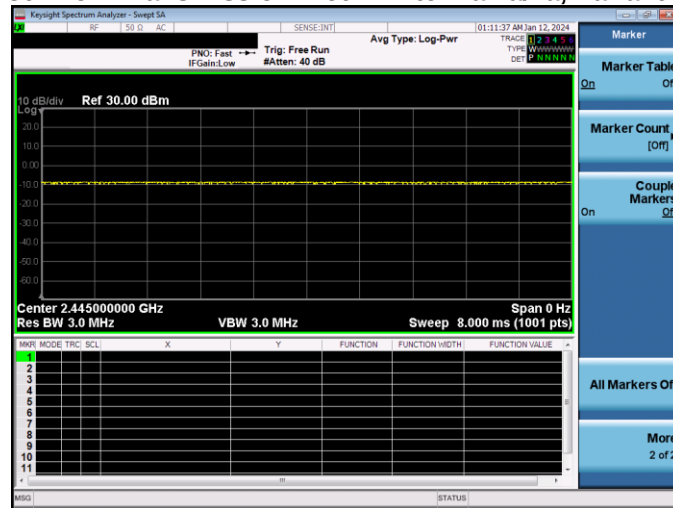


Note: Test mode measured duty cycle for 802.15.4 during SAR measurement.

Equation 8-7
802.15.4 Duty Cycle Calculation – Antenna 4a/2a, Variant 1

$$\text{Duty Cycle} = \frac{\text{Pulse Width}}{\text{Period}} * 100\% = \frac{1 \text{ ms}}{1 \text{ ms}} * 100\% = 100\%$$

Figure 8-12
802.15.4 Transmission Plot – Antenna 4a/2a, Variant 2



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

Equation 8-8
802.15.4 Duty Cycle Calculation – Antenna 4a/2a, Variant 2

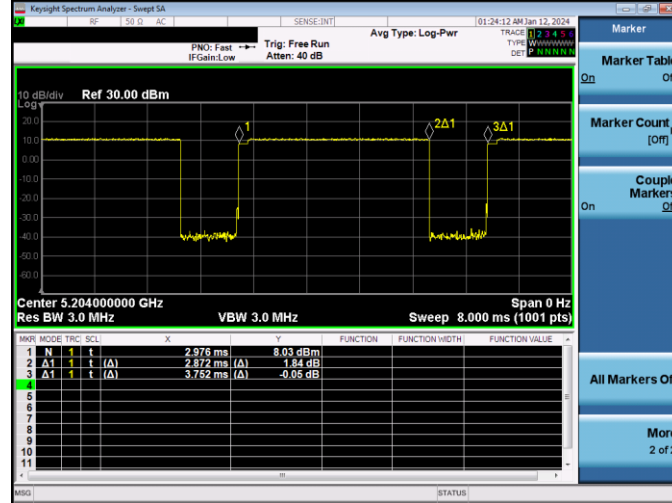
$$\text{Duty Cycle} = \frac{\text{Pulse Width}}{\text{Period}} * 100\% = \frac{1 \text{ ms}}{1 \text{ ms}} * 100\% = 100\%$$

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8.16 NB UNII Duty Cycle Plots

Figure 8-13
NB UNII-1 Transmission Plot – Antenna WF5B, Variant 1

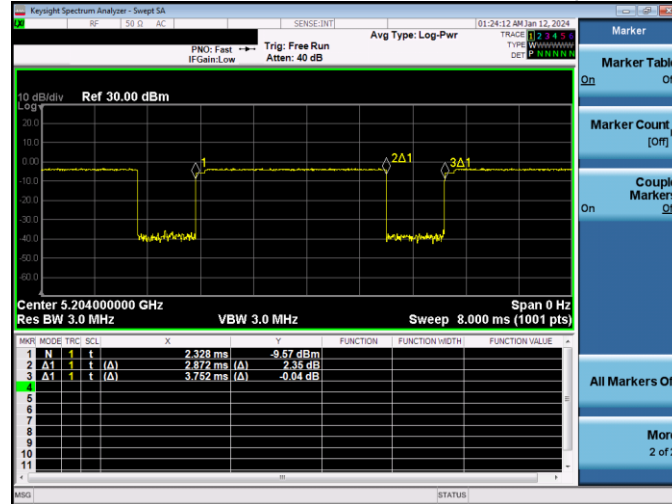


Equation 8-9

NB UNII-1 Duty Cycle Calculation – Antenna WF5B, Variant 1

$$\text{Duty Cycle} = \frac{\text{Pulse Width}}{\text{Period}} * 100\% = \frac{2.872 \text{ ms}}{3.752 \text{ ms}} * 100\% = 76.5\%$$

Figure 8-14
NB UNII-1 Transmission Plot – Antenna WF5B, Variant 2



Equation 8-10

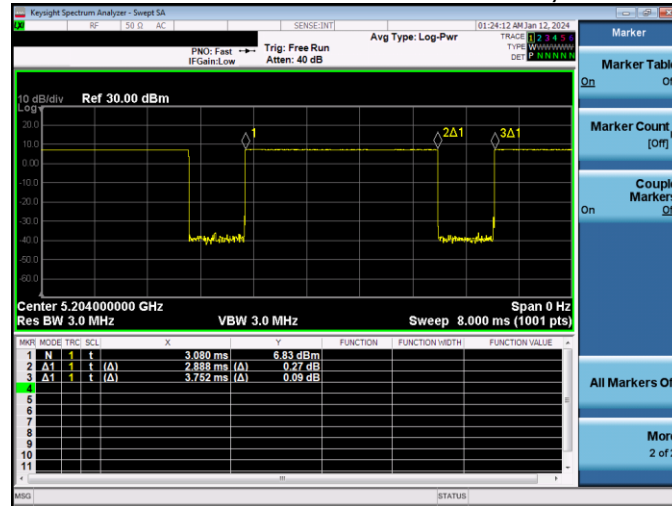
NB UNII-1 Duty Cycle Calculation – Antenna WF5B, Variant 2

$$\text{Duty Cycle} = \frac{\text{Pulse Width}}{\text{Period}} * 100\% = \frac{2.872 \text{ ms}}{3.752 \text{ ms}} * 100\% = 76.5\%$$

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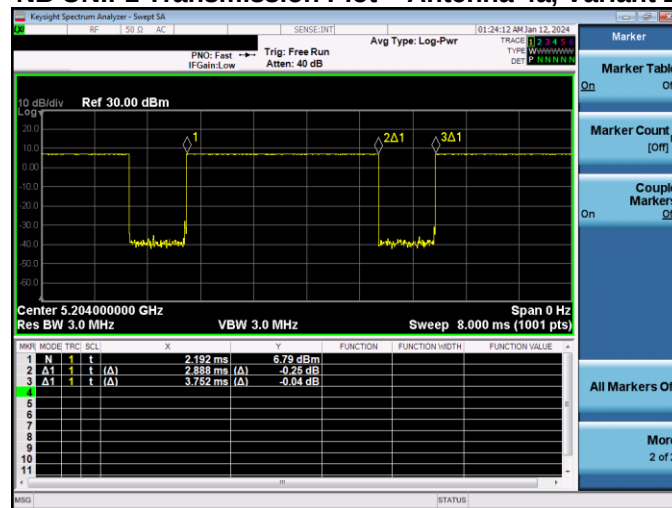
Figure 8-15
NB UNII-1 Transmission Plot – Antenna 4a, Variant 1



Equation 8-11
NB UNII-1 Duty Cycle Calculation – Antenna 4a, Variant 1

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

Figure 8-16
NB UNII-1 Transmission Plot – Antenna 4a, Variant 2



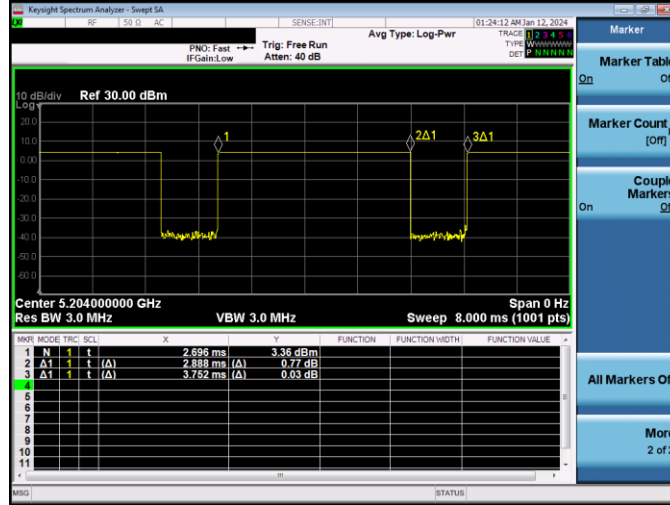
Equation 8-12
NB UNII-1 Duty Cycle Calculation – Antenna 4a, Variant 2

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

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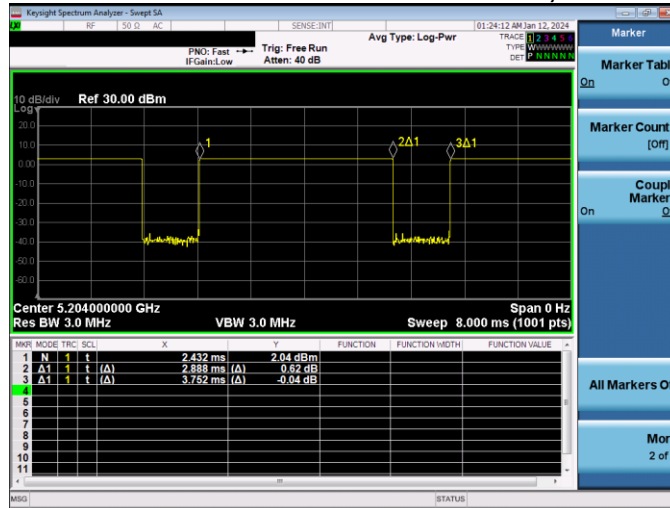
Figure 8-17
NB UNII-1 Transmission Plot – Antenna 2a, Variant 1



Equation 8-13
NB UNII-1 Duty Cycle Calculation – Antenna 2a, Variant 1

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

Figure 8-18
NB UNII-1 Transmission Plot – Antenna 2a, Variant 2



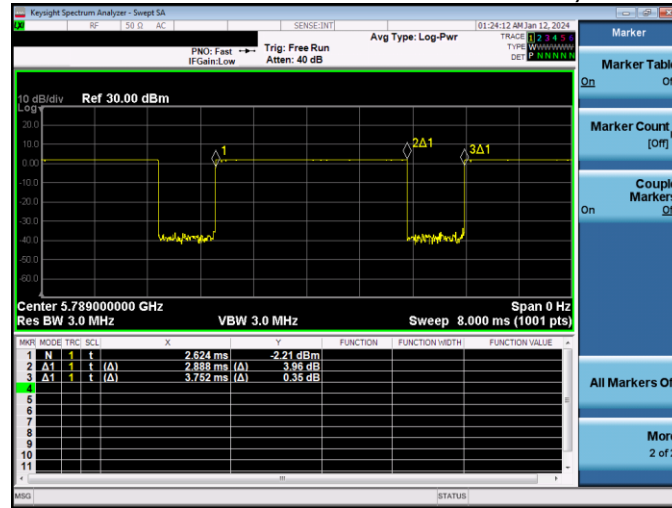
Equation 8-14
NB UNII-1 Duty Cycle Calculation – Antenna 2a, Variant 2

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

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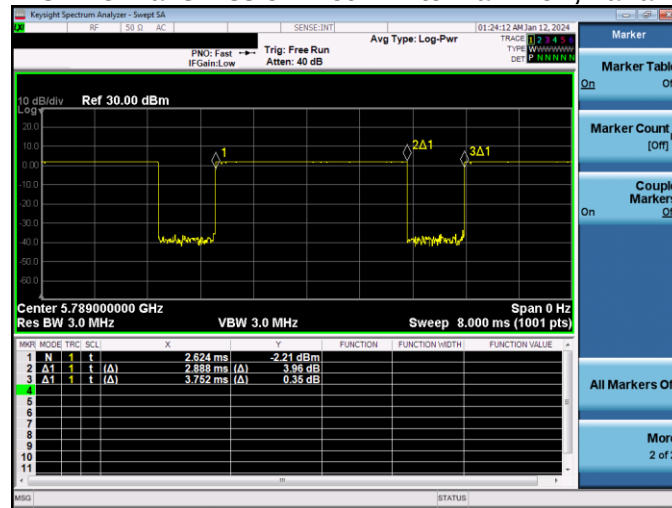
Figure 8-19
NB UNII-3 Transmission Plot – Antenna WF5B, Variant 1



Equation 8-15
NB UNII-3 Duty Cycle Calculation – Antenna WF5B, Variant 1

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

Figure 8-20
NB UNII-3 Transmission Plot – Antenna WF5B, Variant 2



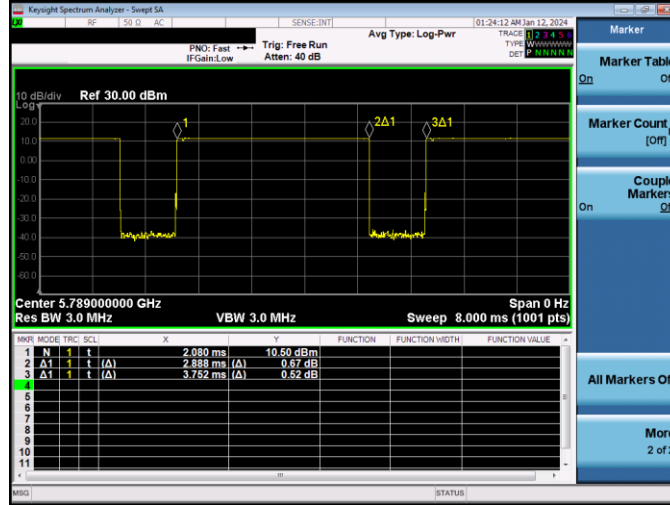
Equation 8-16
NB UNII-3 Duty Cycle Calculation – Antenna WF5B, Variant 2

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

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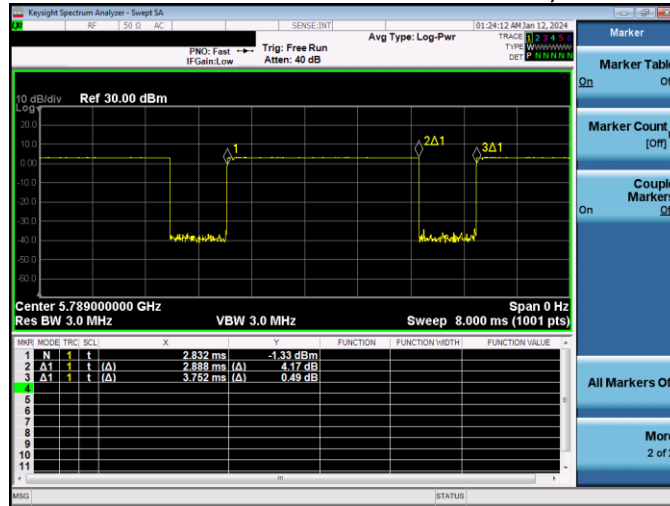
Figure 8-21
NB UNII-3 Transmission Plot – Antenna 4a, Variant 1



Equation 8-17
NB UNII-3 Duty Cycle Calculation – Antenna 4a, Variant 1

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

Figure 8-22
NB UNII-3 Transmission Plot – Antenna 4a, Variant 2



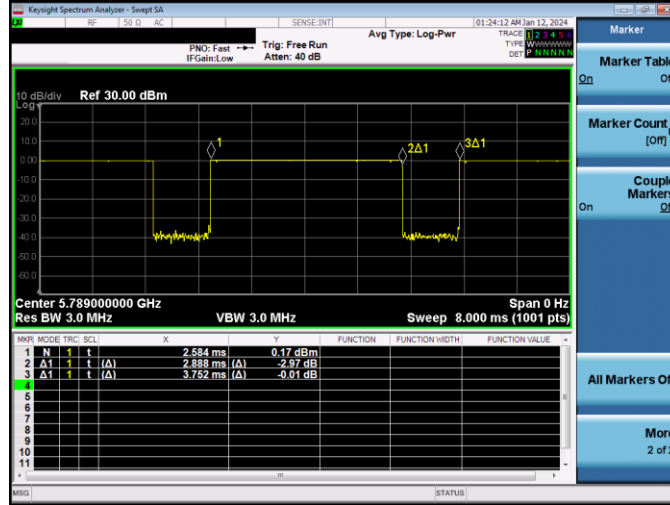
Equation 8-18
NB UNII-3 Duty Cycle Calculation – Antenna 4a, Variant 2

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

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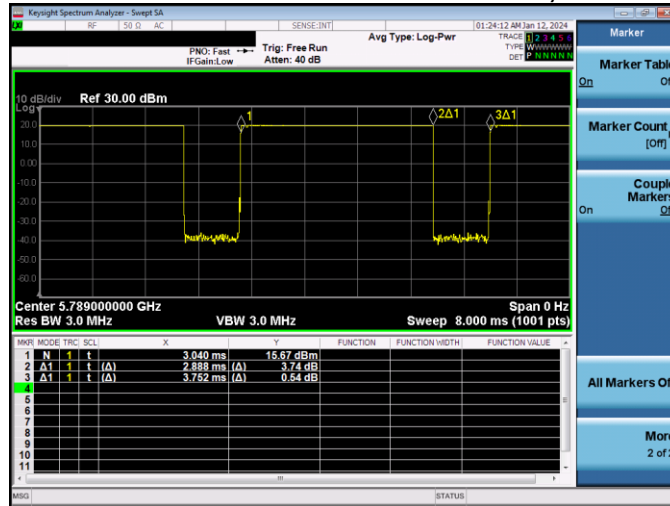
Figure 8-23
NB UNII-3 Transmission Plot – Antenna 2a, Variant 1



Equation 8-19
NB UNII-3 Duty Cycle Calculation – Antenna 2a, Variant 1

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

Figure 8-24
NB UNII-3 Transmission Plot – Antenna 2a, Variant 2



Equation 8-20
NB UNII-3 Duty Cycle Calculation – Antenna 2a, Variant 2

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

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8.17 Bluetooth Power Reduction Verification Summary

Table 8-207
Bluetooth 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 2A	2.4 GHz Bluetooth	Main Band 2B ON	12.5	9.5	11.44	8.27	PASS
	2.4 GHz Bluetooth	ULCA ON	12.5	5.5	11.44	3.75	PASS
	802.15.4	Main band Ant 1 ON and 5/6 GHz WLAN 4A/5B/2A ON	13	7	11.63	6.05	PASS
	802.15.4	Main band Ant 2B ON and 5/6 GHz WLAN Ant 4A/5B/2A ON	13	6	11.63	4.14	PASS
	802.15.4	Main band Ant 3 ON and 5/6 GHz WLAN Ant 4A/5B/2A ON	13	7	11.63	6.54	PASS
	802.15.4	Main Band Ant 4B ON and 5/6 GHz WLAN Ant 4A/5B/2A ON	13	7	11.63	6.57	PASS
	2.4 GHz Bluetooth	Main Band 2B ON and 5/6 GHz WLAN 4A/5B/2A ON	12.5	5.5	11.44	4.25	PASS
	2.4 GHz Bluetooth	ULCA ON and 5/6 GHz WLAN 4A/5B/2A ON	12.5	5.5	11.44	3.74	PASS
	2.4 GHz Bluetooth	5/6 GHz WLAN Ant 4A/5B/2A ON	12.5	6.5	11.44	4.80	PASS
Ant 4A	802.15.4	Main Band 3 ON	13.5	10.5	12.84	9.85	PASS
	802.15.4	Main Band 4B ON	13.5	10.5	12.84	9.86	PASS
	802.15.4	ULCA ON	13.5	6.5	12.84	5.74	PASS
	2.4 GHz Bluetooth	Main band Ant 1 ON and 5/6 GHz WLAN 4A/5B/2A ON	12.5	6.5	11.81	5.87	PASS
	2.4 GHz Bluetooth	Main band Ant 2B ON and 5/6 GHz WLAN Ant 4A/5B/2A ON	12.5	6.5	11.81	5.80	PASS
	2.4 GHz Bluetooth	Main band Ant 3 ON and 5/6 GHz WLAN Ant 4A/5B/2A ON	12.5	5.5	11.81	4.79	PASS
	2.4 GHz Bluetooth	Main Band Ant 4B ON and 5/6 GHz WLAN Ant 4A/5B/2A ON	12.5	5.5	11.81	4.90	PASS
	2.4 GHz Bluetooth	5/6 GHz WLAN Ant 4A/5B/2A ON	12.5	6.5	11.81	5.86	PASS
	2.4 GHz Bluetooth	ULCA ON	12.5	5.5	11.81	5.06	PASS
	802.15.4	ULCA ON and 5/6 GHz WLAN 4A/5B/2A ON	13.5	6.5	12.84	4.89	PASS
	802.15.4	Main Band 4B and 5/6 GHz WLAN 4A/5B/2A ON	13.5	6.5	12.84	5.63	PASS
	802.15.4	5/6 GHz WLAN Ant 4A/5B/2A ON	13.5	7.5	12.84	6.75	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 cellular and 5/6 GHz WLAN antennas. Therefore, conducted power measurements were measured for both mode/band as shown above and applied condition. All conducted power measurements were verified to be below the maximum allowed.

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8.18 NB UNII Power Reduction Verification Summary

Table 8-208
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 [dBm]	Reduced Measured Power [dBm]	Verdict
Ant 2A	NB U-NII	Main Band 2B ON	11	8	9.62	6.15	PASS
	NB U-NII	ULCA ON	11	4	9.62	2.60	PASS
	NB U-NII	2.4 GHz WLAN Ant 4A/2A ON	11	5	9.62	3.22	PASS
	NB U-NII	ULCA ON an 2.4 GHz WLAN 4A/2A ON	11	4	9.62	2.61	PASS
	NB U-NII	Main band Ant 1 ON and 2.4 GHZ WLAN 4A/2A ON	11	5	9.62	3.01	PASS
	NB U-NII	Main band Ant 2B ON and 2.4 GHZ WLAN 4A/2A ON	11	4	9.62	2.77	PASS
	NB U-NII	Main band Ant 3 ON and 2.4 GHZ WLAN 4A/2A ON	11	5	9.62	3.74	PASS
	NB U-NII	Main band Ant 4B ON and 2.4 GHZ WLAN 4A/2A ON	11	5	9.62	3.84	PASS
Ant WF5B	NB U-NII	ULCA ON	13.5	13	12.15	11.69	PASS
	NB U-NII	2.4 GHz WLAN Ant 4A/2A ON	13.5	13	12.15	11.63	PASS
	NB U-NII	ULCA ON an 2.4 GHz WLAN 4A/2A ON	13.5	13	12.15	11.62	PASS
	NB U-NII	Main band Ant 1 ON and 2.4 GHZ WLAN 4A/2A ON	13.5	13	12.15	11.61	PASS
	NB U-NII	Main band Ant 2B ON and 2.4 GHZ WLAN 4A/2A ON	13.5	13	12.15	11.69	PASS
	NB U-NII	Main band Ant 3 ON and 2.4 GHZ WLAN 4A/2A ON	13.5	13	12.15	11.57	PASS
	NB U-NII	Main band Ant 4B ON and 2.4 GHZ WLAN 4A/2A ON	13.5	13	12.15	11.53	PASS
	NB U-NII	Main Band 3 ON	10	7	9.02	5.91	PASS
Ant 4A	NB U-NII	Main Band 4B ON	10	7	9.02	5.6	PASS
	NB U-NII	ULCA ON	10	3	9.02	1.41	PASS
	NB U-NII	2.4 GHz WLAN Ant 4A/2A ON	10	4	9.02	2.64	PASS
	NB U-NII	ULCA ON an 2.4 GHz WLAN 4A/2A ON	10	3	9.02	1.4	PASS
	NB U-NII	Main band Ant 1 ON and 2.4 GHZ WLAN 4A/2A ON	10	4	9.02	2.31	PASS
	NB U-NII	Main band Ant 2B ON and 2.4 GHZ WLAN 4A/2A ON	10	4	9.02	2.3	PASS
	NB U-NII	Main band Ant 3 ON and 2.4 GHZ WLAN 4A/2A ON	10	3	9.02	1.72	PASS
	NB U-NII	Main band Ant 4B ON and 2.4 GHZ WLAN 4A/2A ON	10	3	9.02	1.56	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.

8.19 Notes for Bluetooth

- 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/802.15.4/NB UNII 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.

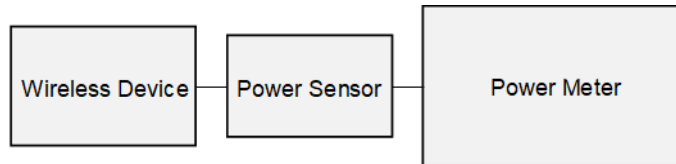


Figure 8-25
Power Measurement Setup

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9 SYSTEM VERIFICATION

9.1 Tissue Verification

Table 9-1
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
02/14/2024	30 Head	22.5	4	0.727	53.823	0.750	55,000	-3.07%	-2.14%
			6	0.727	53.745	0.750	55,000	-3.07%	-2.28%
			12	0.727	53.515	0.750	55,000	-3.07%	-2.70%
			13	0.727	53.480	0.750	55,000	-3.07%	-2.76%
			14	0.727	53.404	0.750	55,000	-3.07%	-2.90%
			30	0.730	52.704	0.750	55,000	-2.67%	-4.17%
			60	0.735	52.001	0.753	54,325	-2.39%	-4.28%
			65	0.738	51.916	0.753	54,213	-2.26%	-4.24%
			150	0.765	50.032	0.760	52,300	0.66%	-4.34%
			680	0.846	43.398	0.888	42,305	-4.73%	2.58%
01/12/2024	750 Head	20.7	695	0.852	43.349	0.889	42,227	-4.16%	2.66%
			700	0.853	43.329	0.889	42,201	-4.05%	2.70%
			710	0.857	43.315	0.890	42,149	-3.71%	2.77%
			725	0.862	43.285	0.891	42,071	-3.25%	2.89%
			750	0.869	43.223	0.894	41,942	-2.80%	3.05%
			770	0.876	43.154	0.895	41,838	-2.12%	3.15%
			785	0.882	43.105	0.896	41,760	-1.56%	3.22%
			800	0.888	43.057	0.897	41,682	-1.00%	3.30%
			680	0.889	40.932	0.888	42,305	0.11%	-3.25%
			695	0.893	40.882	0.889	42,227	0.45%	-3.19%
01/12/2024	750 Head	24.8	710	0.897	40.830	0.890	42,149	0.79%	-3.13%
			725	0.902	40.781	0.891	42,071	1.23%	-3.07%
			750	0.909	40.706	0.894	41,942	1.68%	-2.95%
			770	0.915	40.652	0.895	41,838	2.23%	-2.83%
			785	0.918	40.610	0.896	41,760	2.46%	-2.75%
			800	0.923	40.571	0.897	41,682	2.90%	-2.67%
			680	0.858	42.084	0.888	42,305	-3.38%	-0.52%
			695	0.862	42.055	0.889	42,227	-3.04%	-0.41%
			710	0.866	42.031	0.890	42,149	-2.70%	-0.28%
			725	0.871	41.994	0.891	42,071	-2.24%	-0.18%
01/14/2024	750 Head	24.5	750	0.879	41.897	0.894	41,942	-1.68%	-0.11%
			770	0.886	41.832	0.895	41,838	-1.01%	-0.01%
			785	0.891	41.800	0.896	41,760	-0.56%	0.10%
			800	0.896	41.777	0.897	41,682	-0.11%	0.23%
			680	0.853	42.207	0.888	42,305	-3.94%	-0.23%
			695	0.859	42.164	0.889	42,227	-3.37%	-0.15%
			700	0.860	42.150	0.889	42,201	-3.26%	-0.12%
			710	0.864	42.118	0.890	42,149	-2.92%	-0.07%
			725	0.869	42.068	0.891	42,071	-2.47%	-0.01%
			750	0.877	41.968	0.894	41,942	-1.90%	0.06%
01/16/2024	750 Head	20.8	770	0.885	41.901	0.895	41,838	-1.12%	0.15%
			785	0.890	41.858	0.896	41,760	-0.67%	0.23%
			800	0.896	41.820	0.897	41,682	-0.11%	0.33%
			680	0.856	40.420	0.888	42,305	-3.60%	-4.46%
			695	0.861	40.379	0.889	42,227	-3.15%	-4.38%
			710	0.866	40.335	0.890	42,149	-2.70%	-4.30%
			725	0.871	40.291	0.891	42,071	-2.24%	-4.23%
			750	0.880	40.200	0.894	41,942	-1.57%	-4.15%
			770	0.886	40.125	0.895	41,838	-1.01%	-4.09%
			785	0.890	40.072	0.896	41,760	-0.67%	-4.04%
01/16/2024	750 Head	24.9	800	0.895	40.029	0.897	41,682	-0.22%	-3.97%
			680	0.858	42.105	0.888	42,305	-3.38%	-0.47%
			695	0.863	42.071	0.889	42,227	-2.92%	-0.37%
			710	0.868	42.031	0.890	42,149	-2.47%	-0.28%
			725	0.872	41.984	0.891	42,071	-2.13%	-0.21%
			750	0.879	41.892	0.894	41,942	-1.68%	-0.12%
			770	0.885	41.833	0.895	41,838	-1.12%	-0.01%
			785	0.890	41.793	0.896	41,760	-0.67%	0.08%
			800	0.895	41.752	0.897	41,682	-0.22%	0.17%
			815	0.881	40.582	0.898	41,594	-1.89%	-2.43%
01/16/2024	835 Head	20.7	820	0.883	40.575	0.899	41,578	-1.78%	-2.41%
			835	0.888	40.542	0.900	41,500	-1.33%	-2.31%
			850	0.892	40.503	0.916	41,500	-2.62%	-2.40%
			815	0.887	41.055	0.898	41,594	-1.22%	-1.30%
01/18/2024	835 Head	20.5	820	0.889	41.040	0.899	41,578	-1.11%	-1.29%
			835	0.894	40.989	0.900	41,500	-0.67%	-1.23%
			850	0.900	40.931	0.916	41,500	-1.75%	-1.37%
			815	0.894	41.403	0.898	41,594	-0.45%	-0.46%
01/21/2024	835 Head	20.5	820	0.896	41.391	0.899	41,578	-0.33%	-0.45%
			835	0.900	41.364	0.900	41,500	0.00%	-0.33%
			850	0.905	41.340	0.916	41,500	-1.20%	-0.39%

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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
01/09/2024	1750 Head	21.1	1700	1.328	38.532	1.343	40.145	-1.12%	-4.02%
			1705	1.332	38.507	1.345	40.141	-0.97%	-4.07%
			1710	1.336	38.480	1.348	40.136	-0.89%	-4.13%
			1720	1.345	38.422	1.354	40.126	-0.66%	-4.25%
			1745	1.371	38.271	1.368	40.087	0.22%	-4.53%
			1750	1.376	38.245	1.371	40.079	0.36%	-4.58%
			1770	1.395	38.162	1.383	40.047	0.87%	-4.71%
			1790	1.411	38.095	1.394	40.016	1.22%	-4.80%
01/11/2024	1750 Head	21.9	1700	1.330	39.020	1.343	40.145	-0.97%	-2.80%
			1705	1.335	39.002	1.345	40.141	-0.74%	-2.84%
			1710	1.340	38.981	1.348	40.136	-0.59%	-2.88%
			1720	1.350	38.933	1.354	40.126	-0.30%	-2.97%
			1745	1.376	38.806	1.368	40.087	0.58%	-3.20%
			1750	1.381	38.778	1.371	40.079	0.73%	-3.25%
			1770	1.402	38.679	1.383	40.047	1.37%	-3.42%
			1790	1.421	38.599	1.394	40.016	1.94%	-3.54%
01/14/2024	1750 Head	19.9	1700	1.340	38.703	1.343	40.145	-0.22%	-3.44%
			1705	1.345	38.743	1.345	40.141	0.00%	-3.48%
			1710	1.350	38.720	1.348	40.136	0.15%	-3.53%
			1720	1.359	38.674	1.354	40.126	0.37%	-3.62%
			1745	1.385	38.529	1.368	40.087	1.24%	-3.89%
			1750	1.390	38.505	1.371	40.079	1.39%	-3.93%
			1770	1.410	38.409	1.383	40.047	1.95%	-4.09%
			1790	1.427	38.343	1.394	40.016	2.37%	-4.18%
01/12/2024	1900 Head	23.5	1850	1.374	38.346	1.400	40.000	-1.86%	-4.14%
			1860	1.383	38.305	1.400	40.000	-1.21%	-4.24%
			1880	1.402	38.215	1.400	40.000	0.14%	-4.46%
			1900	1.422	38.131	1.400	40.000	1.57%	-4.67%
			1905	1.428	38.110	1.400	40.000	2.00%	-4.73%
			1910	1.433	38.090	1.400	40.000	2.36%	-4.77%
			1920	1.444	38.051	1.400	40.000	3.14%	-4.87%
			1850	1.397	38.569	1.400	40.000	-0.21%	-3.58%
01/16/2024	1900 Head	22.4	1860	1.407	38.511	1.400	40.000	0.50%	-3.72%
			1880	1.426	38.410	1.400	40.000	1.86%	-3.98%
			1900	1.444	38.330	1.400	40.000	3.14%	-4.18%
			1905	1.449	38.311	1.400	40.000	3.50%	-4.22%
			1910	1.453	38.291	1.400	40.000	3.79%	-4.27%
			1920	1.462	38.247	1.400	40.000	4.43%	-4.38%
			1850	1.350	38.424	1.400	40.000	-3.57%	-3.94%
			1860	1.361	38.383	1.400	40.000	-2.79%	-4.04%
01/18/2024	1900 Head	23.5	1880	1.384	38.295	1.400	40.000	-1.14%	-4.26%
			1900	1.407	38.199	1.400	40.000	0.50%	-4.50%
			1905	1.412	38.175	1.400	40.000	0.86%	-4.56%
			1910	1.418	38.150	1.400	40.000	1.29%	-4.63%
			1920	1.429	38.100	1.400	40.000	2.07%	-4.75%
			2300	1.647	40.096	1.670	39.500	-1.38%	1.51%
			2310	1.655	40.085	1.679	39.460	-1.43%	1.53%
			2320	1.664	40.074	1.687	39.460	-1.36%	1.56%
01/10/2024	2450 Head	19.0	2400	1.726	39.955	1.756	39.289	-1.71%	1.70%
			2450	1.764	39.870	1.800	39.200	-2.00%	1.71%
			2480	1.789	39.811	1.833	39.162	-2.40%	1.66%
			2500	1.806	39.778	1.855	39.136	-2.64%	1.64%
			2510	1.814	39.760	1.866	39.123	-2.79%	1.63%
			2535	1.835	39.726	1.893	39.082	-3.06%	1.62%
			2550	1.846	39.701	1.909	39.073	-3.30%	1.61%
			2560	1.854	39.679	1.920	39.060	-3.44%	1.58%
01/12/2024	2450 Head	20.3	2600	1.888	39.578	1.964	39.009	-3.87%	1.46%
			2650	1.931	39.507	2.018	38.945	-4.31%	1.44%
			2680	1.956	39.448	2.051	38.907	-4.63%	1.39%
			2700	1.971	39.408	2.073	38.882	-4.92%	1.35%
			2300	1.643	41.154	1.670	39.500	-1.62%	4.19%
			2310	1.650	41.138	1.679	39.480	-1.73%	4.20%
			2320	1.658	41.124	1.687	39.460	-1.72%	4.22%
			2400	1.720	41.014	1.756	39.289	-2.05%	4.39%
01/18/2024	2450 Head	23.5	2450	1.761	40.936	1.800	39.200	-2.17%	4.43%
			2480	1.783	40.880	1.833	39.162	-2.73%	4.39%
			2500	1.801	40.853	1.855	39.136	-2.91%	4.39%
			2510	1.810	40.840	1.866	39.123	-3.00%	4.39%
			2535	1.831	40.810	1.893	39.092	-3.28%	4.39%
			2550	1.843	40.792	1.909	39.073	-3.46%	4.40%
			2560	1.851	40.777	1.920	39.060	-3.59%	4.40%
			2600	1.886	40.683	1.964	39.009	-3.97%	4.29%
01/10/2024	2450 Head	23.5	2650	1.932	40.617	2.018	38.945	-4.26%	4.29%
			2680	1.956	40.565	2.051	38.907	-4.63%	4.26%
			2700	1.972	40.516	2.073	38.882	-4.87%	4.20%
			2300	1.691	38.998	1.670	39.500	1.26%	-1.27%
			2310	1.703	38.968	1.679	39.480	1.45%	-1.30%
			2320	1.714	38.934	1.687	39.460	1.60%	-1.33%
			2400	1.804	38.604	1.756	39.289	2.73%	-1.74%
			2450	1.862	38.408	1.800	39.200	3.44%	-2.02%
01/18/2024	2450 Head	23.5	2480	1.896	38.281	1.833	39.162	3.44%	-2.25%
			2500	1.918	38.200	1.855	39.136	3.40%	-2.39%
			2510	1.930	38.162	1.866	39.123	3.43%	-2.46%
			2535	1.960	38.063	1.893	39.082	3.54%	-2.63%
			2550	1.978	38.007	1.909	39.073	3.61%	-2.73%
			2560	1.990	37.970	1.920	39.060	3.65%	-2.79%
			2600	2.036	37.791	1.964	39.009	3.67%	-3.12%
			2650	2.095	37.600	2.018	38.945	3.82%	-3.45%
01/10/2024	2450 Head	23.5	2680	2.132	37.464	2.051	38.907	3.95%	-3.71%
			2700	2.155	37.367	2.073	38.882	3.96%	-3.90%

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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
01/21/2024	2450 Head	24.1	2300	1.667	38.995	1.670	39.500	-0.18%	-1.28%
			2310	1.679	38.956	1.679	39.480	0.00%	-1.33%
			2320	1.690	38.920	1.687	39.460	0.18%	-1.37%
			2400	1.780	38.606	1.756	39.289	1.37%	-1.74%
			2450	1.834	38.417	1.800	39.200	1.89%	-2.00%
			2480	1.868	38.270	1.833	39.162	1.91%	-2.28%
			2500	1.893	38.192	1.855	39.136	2.05%	-2.41%
			2510	1.905	38.159	1.866	39.123	2.09%	-2.46%
			2535	1.933	38.076	1.893	39.092	2.11%	-2.60%
			2550	1.950	38.020	1.909	39.073	2.15%	-2.69%
			2560	1.960	37.974	1.920	39.060	2.08%	-2.78%
			2600	2.008	37.782	1.964	39.009	2.24%	-3.15%
			2650	2.066	37.614	2.018	38.945	2.38%	-3.42%
			2680	2.098	37.484	2.051	38.907	2.29%	-3.66%
			2700	2.121	37.387	2.073	38.882	2.32%	-3.84%
			2300	1.667	40.509	1.670	39.500	-0.18%	2.55%
			2310	1.680	40.463	1.679	39.480	0.08%	2.49%
			2320	1.693	40.421	1.687	39.460	0.36%	2.44%
01/28/2024	2450 Head	25.0	2400	1.786	40.089	1.756	39.289	1.71%	2.04%
			2450	1.847	39.898	1.800	39.200	2.61%	1.78%
			2480	1.881	39.775	1.833	39.162	2.62%	1.57%
			2500	1.904	39.691	1.855	39.136	2.64%	1.42%
			2510	1.917	39.652	1.866	39.123	2.73%	1.35%
			2535	1.948	39.562	1.893	39.092	2.91%	1.20%
			2550	1.966	39.505	1.909	39.073	2.99%	1.11%
			2560	1.977	39.463	1.920	39.060	2.97%	1.03%
			2600	2.027	39.282	1.964	39.009	3.21%	0.70%
			2650	2.089	39.100	2.018	38.945	3.52%	0.40%
			2680	2.123	38.959	2.051	38.907	3.51%	0.13%
			2700	2.149	38.877	2.073	38.882	3.67%	-0.01%
			2300	1.659	39.234	1.670	39.500	-0.66%	-0.67%
			2310	1.666	39.228	1.679	39.480	-0.77%	-0.64%
			2320	1.674	39.223	1.687	39.460	-0.77%	-0.60%
			2400	1.730	39.153	1.756	39.289	-1.48%	-0.35%
			2450	1.766	39.077	1.800	39.200	-1.89%	-0.31%
02/01/2024	2450 Head	19.0	2480	1.789	39.034	1.833	39.162	-2.40%	-0.33%
			2500	1.806	39.010	1.855	39.136	-2.64%	-0.32%
			2510	1.815	39.001	1.866	39.123	-2.73%	-0.31%
			2535	1.835	38.968	1.893	39.092	-3.06%	-0.32%
			2550	1.847	38.937	1.909	39.073	-3.25%	-0.35%
			2560	1.855	38.915	1.920	39.060	-3.39%	-0.37%
			2600	1.888	38.839	1.964	39.009	-3.87%	-0.44%
			2650	1.934	38.787	2.018	38.945	-4.16%	-0.41%
			2680	1.960	38.740	2.051	38.907	-4.44%	-0.43%
			2700	1.977	38.697	2.073	38.882	-4.63%	-0.48%
			2300	1.753	40.335	1.670	39.500	4.97%	2.11%
			2310	1.761	40.327	1.679	39.480	4.88%	2.15%
			2320	1.769	40.314	1.687	39.460	4.86%	2.16%
			2400	1.828	40.202	1.756	39.289	4.10%	2.32%
			2450	1.868	40.120	1.800	39.200	3.78%	2.35%
			2480	1.891	40.054	1.833	39.162	3.16%	2.28%
			2500	1.906	40.024	1.855	39.136	2.75%	2.27%
03/07/2024	2450 Head	22.0	2510	1.914	40.013	1.866	39.123	2.57%	2.27%
			2535	1.935	39.989	1.893	39.092	2.22%	2.24%
			2550	1.947	39.945	1.909	39.073	1.99%	2.23%
			2560	1.955	39.929	1.920	39.060	1.82%	2.22%
			2600	1.988	39.863	1.964	39.009	1.22%	2.19%
			2650	2.028	39.772	2.018	38.945	0.50%	2.12%
			2680	2.053	39.724	2.051	38.907	0.10%	2.10%
			2700	2.069	39.691	2.073	38.882	-0.19%	2.08%
			3300	2.775	38.623	2.708	38.157	2.47%	1.22%
			3350	2.819	38.563	2.759	38.100	2.17%	1.22%
			3450	2.903	38.419	2.861	37.986	1.47%	1.14%
			3500	2.945	38.287	2.913	37.929	1.10%	0.94%
			3550	2.987	38.264	2.964	37.871	0.78%	1.04%
			3560	2.992	38.246	2.974	37.860	0.61%	1.02%
			3600	3.023	38.114	3.015	37.814	0.27%	0.79%
			3650	3.076	38.071	3.066	37.757	0.33%	0.83%
			3690	3.109	38.029	3.107	37.711	0.06%	0.84%
01/14/2024	3600 Head	19.9	3700	3.117	38.006	3.117	37.700	0.00%	0.81%
			3750	3.161	37.930	3.169	37.643	-0.25%	0.76%
			3900	3.301	37.678	3.323	37.471	-0.66%	0.55%
			3930	3.333	37.666	3.353	37.437	-0.60%	0.61%
			4100	3.483	37.458	3.528	37.243	-1.28%	0.58%
			4150	3.537	37.383	3.579	37.186	-1.17%	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
01/22/2024	3600 Head	21.1	3450	2.998	36.634	2.861	37.986	4.79%	-3.56%
			3500	3.031	36.561	2.913	37.929	4.05%	-3.61%
			3550	3.064	36.486	2.964	37.871	3.37%	-3.66%
			3560	3.075	36.464	2.974	37.860	3.40%	-3.69%
			3600	3.109	36.424	3.015	37.814	3.12%	-3.68%
			3650	3.145	36.357	3.066	37.757	2.58%	-3.71%
			3690	3.186	36.312	3.107	37.711	2.54%	-3.71%
			3700	3.193	36.305	3.117	37.700	2.44%	-3.70%
			3750	3.225	36.246	3.169	37.643	1.77%	-3.71%
			3900	3.352	36.034	3.323	37.471	0.87%	-3.83%
			3930	3.384	36.003	3.353	37.437	0.92%	-3.83%
			4100	3.534	35.809	3.528	37.243	0.17%	-3.85%
			4150	3.579	35.757	3.579	37.186	0.00%	-3.84%
			3300	2.831	38.744	2.708	38.157	4.54%	1.54%
01/28/2024	3600 Head	20.2	3350	2.877	38.671	2.759	38.100	4.28%	1.50%
			3450	2.952	38.519	2.861	37.986	3.18%	1.40%
			3500	2.991	38.442	2.913	37.929	2.68%	1.35%
			3550	3.032	38.375	2.964	37.871	2.29%	1.33%
			3560	3.041	38.365	2.974	37.860	2.25%	1.33%
			3600	3.071	38.280	3.015	37.814	1.86%	1.23%
			3650	3.114	38.217	3.066	37.757	1.57%	1.22%
			3690	3.143	38.157	3.107	37.711	1.16%	1.18%
			3700	3.152	38.140	3.117	37.700	1.12%	1.17%
			3750	3.202	38.063	3.169	37.643	1.04%	1.12%
			3900	3.333	37.875	3.323	37.471	0.30%	1.06%
			3930	3.355	37.849	3.353	37.437	0.06%	1.10%
			4100	3.510	37.619	3.528	37.243	-0.51%	1.01%
			4150	3.560	37.540	3.579	37.186	-0.53%	0.95%
01/28/2024	3600 Head	22.2	3450	3.004	36.575	2.861	37.986	5.00%	-3.71%
			3500	3.038	36.505	2.913	37.929	4.29%	-3.75%
			3550	3.080	36.438	2.964	37.871	3.91%	-3.78%
			3560	3.087	36.432	2.974	37.860	3.80%	-3.77%
			3600	3.114	36.359	3.015	37.814	3.28%	-3.85%
			3650	3.155	36.303	3.066	37.757	2.90%	-3.85%
			3690	3.183	36.259	3.107	37.711	2.45%	-3.85%
			3700	3.191	36.242	3.117	37.700	2.37%	-3.87%
			3750	3.236	36.175	3.169	37.643	2.11%	-3.90%
			3900	3.352	36.008	3.323	37.471	0.87%	-3.90%
			3930	3.372	35.983	3.353	37.437	0.57%	-3.88%
			4100	3.512	35.795	3.528	37.243	-0.45%	-3.89%
			4150	3.561	35.724	3.579	37.186	-0.50%	-3.93%

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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
01/28/2024	5200-5800 Head	21.1	5180	4.446	35.988	4.635	36.009	-4.08%	-0.06%
			5190	4.460	35.977	4.645	35.998	-3.98%	-0.06%
			5200	4.472	35.966	4.655	35.986	-3.93%	-0.06%
			5210	4.480	35.951	4.666	35.975	-3.99%	-0.07%
			5220	4.489	35.928	4.676	35.963	-4.00%	-0.10%
			5240	4.514	35.887	4.696	35.940	-3.88%	-0.15%
			5250	4.522	35.878	4.706	35.929	-3.91%	-0.14%
			5260	4.529	35.862	4.717	35.917	-3.99%	-0.15%
			5270	4.542	35.834	4.727	35.906	-3.91%	-0.20%
			5280	4.557	35.807	4.737	35.894	-3.80%	-0.24%
			5290	4.568	35.788	4.748	35.883	-3.79%	-0.26%
			5300	4.580	35.781	4.758	35.871	-3.74%	-0.25%
			5310	4.589	35.772	4.768	35.860	-3.75%	-0.25%
			5320	4.599	35.756	4.778	35.849	-3.75%	-0.26%
			5500	4.799	35.432	4.963	35.643	-3.30%	-0.59%
			5510	4.811	35.426	4.973	35.632	-3.26%	-0.58%
			5520	4.822	35.407	4.983	35.620	-3.23%	-0.60%
			5530	4.833	35.394	4.994	35.609	-3.22%	-0.63%
			5540	4.844	35.364	5.004	35.597	-3.20%	-0.68%
			5550	4.852	35.338	5.014	35.586	-3.22%	-0.70%
			5560	4.860	35.332	5.024	35.574	-3.26%	-0.68%
			5580	4.880	35.316	5.045	35.551	-3.27%	-0.66%
			5600	4.914	35.250	5.065	35.529	-2.98%	-0.79%
			5610	4.927	35.239	5.076	35.518	-2.94%	-0.79%
			5620	4.939	35.231	5.086	35.506	-2.89%	-0.77%
			5640	4.963	35.193	5.106	35.483	-2.80%	-0.82%
			5660	4.982	35.150	5.127	35.460	-2.83%	-0.87%
			5670	4.990	35.141	5.137	35.449	-2.86%	-0.87%
			5680	4.999	35.120	5.147	35.437	-2.88%	-0.89%
			5690	5.013	35.095	5.158	35.426	-2.81%	-0.93%
			5700	5.027	35.071	5.168	35.414	-2.79%	-0.97%
			5710	5.041	35.054	5.178	35.403	-2.65%	-0.99%
			5720	5.055	35.045	5.188	35.391	-2.56%	-0.98%
			5745	5.085	35.008	5.214	35.363	-2.47%	-1.00%
			5750	5.090	35.000	5.219	35.357	-2.47%	-1.01%
			5755	5.095	34.990	5.224	35.351	-2.47%	-1.02%
			5765	5.107	34.969	5.234	35.340	-2.43%	-1.05%
			5775	5.115	34.956	5.245	35.329	-2.48%	-1.06%
			5785	5.123	34.944	5.255	35.317	-2.51%	-1.06%
			5795	5.135	34.922	5.265	35.305	-2.47%	-1.08%
			5800	5.141	34.911	5.270	35.300	-2.45%	-1.10%
			5800	5.141	34.911	5.270	35.300	-2.45%	-1.10%
			5805	5.149	34.901	5.275	35.294	-2.39%	-1.11%
			5825	5.175	34.871	5.296	35.271	-2.28%	-1.13%
			5835	5.186	34.856	5.305	35.230	-2.24%	-1.06%
			5845	5.199	34.842	5.315	35.210	-2.18%	-1.05%
			5855	5.211	34.824	5.325	35.197	-2.14%	-1.06%
			5865	5.225	34.800	5.336	35.190	-2.08%	-1.11%
			5865	5.225	34.800	5.336	35.190	-2.08%	-1.11%
			5865	5.225	34.800	5.336	35.190	-2.08%	-1.11%
			5875	5.234	34.778	5.347	35.183	-2.11%	-1.15%
			5885	5.241	34.764	5.357	35.177	-2.17%	-1.17%
			5905	5.261	34.725	5.379	35.163	-2.19%	-1.25%
			5800	5.141	34.911	5.270	35.300	-2.45%	-1.10%
			5800	5.141	34.911	5.270	35.300	-2.45%	-1.10%

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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
02/13/2024	5200-5800 Head	19.3	5180	4.436	35.363	4.635	36.009	-4.29%	-1.79%
			5190	4.450	35.343	4.645	35.998	-4.20%	-1.82%
			5200	4.463	35.331	4.655	35.986	-4.12%	-1.82%
			5210	4.473	35.329	4.666	35.975	-4.14%	-1.80%
			5220	4.482	35.321	4.676	35.963	-4.15%	-1.79%
			5240	4.502	35.267	4.696	35.940	-4.13%	-1.87%
			5250	4.513	35.239	4.706	35.929	-4.10%	-1.92%
			5260	4.525	35.217	4.717	35.917	-4.07%	-1.95%
			5270	4.535	35.197	4.727	35.906	-4.06%	-1.97%
			5280	4.546	35.175	4.737	35.894	-4.03%	-2.00%
			5290	4.558	35.156	4.748	35.883	-4.00%	-2.03%
			5300	4.570	35.139	4.758	35.871	-3.95%	-2.04%
			5310	4.584	35.133	4.768	35.860	-3.86%	-2.03%
			5320	4.598	35.126	4.778	35.849	-3.77%	-2.02%
			5500	4.789	34.785	4.963	35.643	-3.53%	-2.41%
			5510	4.803	34.771	4.973	35.632	-3.42%	-2.42%
			5520	4.816	34.758	4.983	35.620	-3.35%	-2.43%
			5530	4.829	34.741	4.994	35.609	-3.32%	-2.44%
			5540	4.839	34.735	5.004	35.597	-3.30%	-2.42%
			5550	4.852	34.719	5.014	35.586	-3.23%	-2.44%
			5560	4.864	34.703	5.024	35.574	-3.18%	-2.45%
			5580	4.879	34.662	5.045	35.551	-3.29%	-2.50%
			5600	4.910	34.637	5.065	35.529	-3.06%	-2.51%
			5610	4.924	34.604	5.076	35.518	-2.99%	-2.57%
			5620	4.933	34.573	5.086	35.506	-3.01%	-2.63%
			5640	4.953	34.537	5.106	35.483	-3.00%	-2.67%
			5660	4.980	34.517	5.127	35.460	-2.87%	-2.66%
			5670	4.990	34.503	5.137	35.449	-2.86%	-2.67%
			5680	5.000	34.488	5.147	35.437	-2.86%	-2.68%
			5690	5.011	34.467	5.158	35.426	-2.85%	-2.71%
			5700	5.023	34.450	5.168	35.414	-2.81%	-2.72%
			5710	5.033	34.426	5.178	35.403	-2.80%	-2.76%
			5720	5.045	34.408	5.188	35.391	-2.76%	-2.78%
			5745	5.076	34.361	5.214	35.363	-2.65%	-2.83%
			5750	5.083	34.350	5.219	35.357	-2.61%	-2.85%
			5755	5.086	34.338	5.224	35.351	-2.64%	-2.87%
			5765	5.096	34.319	5.234	35.340	-2.64%	-2.89%
			5775	5.109	34.305	5.245	35.329	-2.59%	-2.90%
			5785	5.121	34.294	5.255	35.317	-2.55%	-2.90%
			5795	5.131	34.288	5.265	35.305	-2.55%	-2.88%
			5800	5.136	34.281	5.270	35.300	-2.54%	-2.89%
			5800	5.136	34.281	5.270	35.300	-2.54%	-2.89%
			5805	5.142	34.275	5.275	35.294	-2.52%	-2.89%
			5825	5.164	34.236	5.296	35.271	-2.49%	-2.93%
			5835	5.174	34.218	5.305	35.230	-2.47%	-2.87%
			5845	5.183	34.199	5.315	35.210	-2.48%	-2.87%
			5855	5.194	34.177	5.325	35.197	-2.46%	-2.90%
			5865	5.207	34.158	5.336	35.190	-2.42%	-2.93%
			5865	5.207	34.158	5.336	35.190	-2.42%	-2.93%
			5865	5.207	34.158	5.336	35.190	-2.42%	-2.93%
			5875	5.221	34.139	5.347	35.183	-2.36%	-2.97%
			5885	5.233	34.129	5.357	35.177	-2.31%	-2.98%
			5905	5.253	34.101	5.379	35.163	-2.34%	-3.02%
01/08/2024	6000 Head	19.7	5935	5.298	34.618	5.411	35.143	-2.09%	-1.49%
			5970	5.351	34.594	5.448	35.120	-1.78%	-1.50%
			5985	5.369	34.587	5.464	35.110	-1.74%	-1.49%
			6000	5.386	34.570	5.480	35.100	-1.72%	-1.51%
			6025	5.405	34.492	5.510	35.070	-1.91%	-1.65%
			6065	5.449	34.374	5.557	35.022	-1.94%	-1.85%
			6075	5.469	34.365	5.569	35.010	-1.80%	-1.84%
			6085	5.487	34.361	5.580	34.998	-1.67%	-1.82%
			6185	5.589	34.164	5.698	34.878	-1.91%	-2.05%
			6275	5.703	34.038	5.805	34.770	-1.76%	-2.11%
			6285	5.708	34.010	5.816	34.758	-1.86%	-2.15%
			6305	5.732	33.936	5.840	34.734	-1.85%	-2.30%
			6345	5.798	33.854	5.887	34.686	-1.51%	-2.40%
			6475	5.952	33.652	6.041	34.530	-1.47%	-2.54%
			6485	5.961	33.650	6.052	34.518	-1.50%	-2.51%
			6500	5.975	33.637	6.070	34.500	-1.57%	-2.50%
			6505	5.979	33.627	6.076	34.494	-1.60%	-2.51%
			6545	6.030	33.532	6.122	34.446	-1.50%	-2.65%
			6665	6.198	33.338	6.265	34.302	-1.07%	-2.81%
			6675	6.203	33.312	6.273	34.290	-1.12%	-2.85%
			6685	6.208	33.281	6.285	34.278	-1.23%	-2.91%
			6715	6.253	33.210	6.319	34.242	-1.04%	-3.01%
			6785	6.334	33.206	6.400	34.158	-1.03%	-2.79%
			6825	6.364	33.062	6.447	34.110	-1.29%	-3.07%
			6985	6.579	32.797	6.633	33.918	-0.61%	-3.31%
			7500	7.206	31.866	7.240	33.300	-0.47%	-4.31%
			7980	7.753	31.202	7.816	32.724	-0.81%	-4.65%
			8000	7.763	31.148	7.840	32.700	-0.98%	-4.75%

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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9.1.1 Test System Verification

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

Table 9-2
System Verification Results – 1g

System Verification TARGET & MEASURED																	
SAR System	Tissue Frequency (MHz)	Tissue Type	Date	Amb. Temp. (C)	Liquid Temp. (C)	Input Power (W)	Source SN	Probe SN	DAE	Measured SAR 1g (W/kg)	1W Target SAR 1g (W/kg)	1W Normalized SAR 1g (W/kg)	Deviation 1g (%)	Measured 4cm2 APD (W/m2)	1W Target 4cm2 APD (W/m2)	1W Normalized 4cm2 APD	Deviation 4cm2 APD (%)
AM14	13	HEAD	02/14/2024	22.6	21.9	1.00	1004	7360	534	0.552	0.578	0.552	-4.50%	N/A	N/A	N/A	N/A
AM1	750	HEAD	01/12/2024	21.2	20.5	0.20	1097	3949	1684	1.720	8.270	8.600	3.99%	N/A	N/A	N/A	N/A
AM13	750	HEAD	01/12/2024	23.1	23.4	0.20	1057	7357	1582	1.690	8.510	8.450	-0.71%	N/A	N/A	N/A	N/A
AM13	750	HEAD	01/14/2024	22.9	23.0	0.20	1057	7357	1582	1.650	8.510	8.250	-3.06%	N/A	N/A	N/A	N/A
AM1	750	HEAD	01/16/2024	21.1	20.7	0.20	1097	3949	1684	1.620	8.270	8.100	-2.06%	N/A	N/A	N/A	N/A
AM13	750	HEAD	01/16/2024	21.5	23.4	0.20	1057	7357	1582	1.730	8.510	8.650	1.65%	N/A	N/A	N/A	N/A
AM13	750	HEAD	02/09/2024	20.9	23.5	0.20	1057	7357	1582	1.630	8.510	8.150	-4.23%	N/A	N/A	N/A	N/A
AM10	835	HEAD	01/16/2024	20.6	19.4	0.20	4d108	7416	701	1.850	9.800	9.250	-5.61%	N/A	N/A	N/A	N/A
AM10	835	HEAD	01/18/2024	20.5	20.5	0.20	4d040	7416	701	1.900	9.790	9.500	-2.96%	N/A	N/A	N/A	N/A
AM10	835	HEAD	01/20/2024	22.3	19.7	0.20	4d040	7416	701	1.880	9.790	9.400	-3.98%	N/A	N/A	N/A	N/A
AM10	835	HEAD	01/21/2024	21.2	20.3	0.20	4d040	7416	701	1.960	9.790	9.800	0.10%	N/A	N/A	N/A	N/A
AM14	1750	HEAD	01/09/2024	20.3	19.3	0.10	1040	7360	534	3.700	36.400	37.000	1.65%	N/A	N/A	N/A	N/A
AM14	1750	HEAD	01/11/2024	22.0	20.6	0.10	1083	7360	534	3.400	36.500	34.000	-6.85%	N/A	N/A	N/A	N/A
AM4	1750	HEAD	01/14/2024	21.3	20.4	0.10	1040	7639	1403	3.760	36.400	37.600	3.30%	N/A	N/A	N/A	N/A
AM15	1900	HEAD	01/12/2024	19.1	21.6	0.10	5d030	7668	1681	3.960	39.800	39.600	-0.50%	N/A	N/A	N/A	N/A
AM15	1900	HEAD	01/16/2024	20.7	21.4	0.10	5d030	7668	1681	3.760	39.800	37.600	-5.53%	N/A	N/A	N/A	N/A
AM15	1900	HEAD	01/18/2024	21.7	21.6	0.10	5d030	7668	1681	3.710	39.800	37.100	-6.78%	N/A	N/A	N/A	N/A
AM8	2300	HEAD	01/10/2024	20.8	19.1	0.10	1038	7421	604	5.070	48.600	50.700	4.32%	N/A	N/A	N/A	N/A
AM8	2300	HEAD	01/12/2024	20.8	19.7	0.10	1038	7421	604	5.080	48.600	50.800	4.53%	N/A	N/A	N/A	N/A
AM8	2450	HEAD	01/12/2024	20.8	19.7	0.10	921	7421	604	5.120	54.200	51.200	-5.54%	N/A	N/A	N/A	N/A
AM7	2450	HEAD	01/21/2024	21.5	22.5	0.10	855	7532	501	5.080	52.400	50.800	-3.05%	N/A	N/A	N/A	N/A
AM12	2450	HEAD	01/28/2024	21.0	23.0	0.10	750	7546	1402	5.130	52.600	51.300	-2.47%	N/A	N/A	N/A	N/A
AM8	2450	HEAD	02/01/2024	20.6	19.6	0.10	921	7421	604	5.130	54.200	51.300	-5.35%	N/A	N/A	N/A	N/A
AM4	2450	HEAD	03/07/2024	22.0	21.0	0.10	750	7639	1403	5.160	52.600	51.600	-1.90%	N/A	N/A	N/A	N/A
AM7	2600	HEAD	01/18/2024	21.1	21.6	0.10	1068	7532	501	5.740	56.500	57.400	1.59%	N/A	N/A	N/A	N/A
AM7	2600	HEAD	01/21/2024	21.5	22.5	0.10	1068	7532	501	5.530	56.500	55.300	-2.12%	N/A	N/A	N/A	N/A
AM12	2600	HEAD	01/28/2024	21.0	23.0	0.10	1042	7546	1402	5.810	55.800	58.100	4.12%	N/A	N/A	N/A	N/A
AM6	3500	HEAD	01/14/2024	20.9	20.7	0.10	1126	7638	1408	6.940	67.000	69.400	3.58%	N/A	N/A	N/A	N/A
AM3	3500	HEAD	01/22/2024	24.0	21.4	0.10	1126	7782	1646	6.530	67.000	65.300	-2.54%	N/A	N/A	N/A	N/A
AM6	3500	HEAD	01/28/2024	21.3	20.9	0.10	1055	7638	1408	6.920	66.000	69.200	4.85%	N/A	N/A	N/A	N/A
AM3	3500	HEAD	01/28/2024	21.6	20.7	0.10	1126	7782	1646	6.760	67.000	67.600	0.90%	N/A	N/A	N/A	N/A
AM6	3700	HEAD	01/14/2024	20.9	20.7	0.10	1002	7638	1408	6.670	67.900	66.700	-1.77%	N/A	N/A	N/A	N/A
AM3	3700	HEAD	01/22/2024	24.0	21.4	0.10	1097	7782	1646	7.120	68.100	71.200	4.55%	N/A	N/A	N/A	N/A
AM6	3700	HEAD	01/28/2024	21.3	20.9	0.10	1002	7638	1408	6.800	67.900	68.000	0.15%	N/A	N/A	N/A	N/A
AM3	3700	HEAD	01/28/2024	21.6	20.7	0.10	1097	7782	1646	7.220	68.100	72.200	6.02%	N/A	N/A	N/A	N/A
AM3	3900	HEAD	01/22/2024	24.0	21.4	0.10	1073	7782	1646	6.820	69.700	68.200	-2.15%	N/A	N/A	N/A	N/A
AM6	3900	HEAD	01/28/2024	21.3	20.9	0.10	1073	7638	1408	7.060	69.700	70.600	1.29%	N/A	N/A	N/A	N/A
AM1	5250	HEAD	01/28/2024	22.3	21.6	0.05	1123	3949	1684	4.180	80.500	83.600	3.85%	N/A	N/A	N/A	N/A
AM9	5250	HEAD	02/13/2024	20.8	19.3	0.05	1123	3746	1237	4.030	80.500	80.600	0.12%	N/A	N/A	N/A	N/A
AM1	5600	HEAD	01/28/2024	22.3	21.6	0.05	1123	3949	1684	3.970	83.700	79.400	-5.14%	N/A	N/A	N/A	N/A
AM9	5600	HEAD	02/13/2024	20.8	19.3	0.05	1123	3746	1237	4.400	83.700	88.000	5.14%	N/A	N/A	N/A	N/A
AM1	5750	HEAD	01/28/2024	22.3	21.6	0.05	1123	3949	1684	3.970	80.500	79.400	-1.37%	N/A	N/A	N/A	N/A
AM9	5750	HEAD	02/13/2024	20.8	19.3	0.05	1123	3746	1237	4.130	80.500	82.600	2.61%	N/A	N/A	N/A	N/A
AM1	5800	HEAD	01/28/2024	22.3	21.6	0.05	1123	3949	1684	3.790	80.500	75.800	-5.84%	N/A	N/A	N/A	N/A
AM9	5800	HEAD	02/13/2024	20.8	19.3	0.05	1123	3746	1237	4.060	80.500	81.200	0.87%	N/A	N/A	N/A	N/A
AM2	6500	HEAD	01/08/2024	21.5	19.0	0.03	1019	7420	1333	7.760	293.000	310.400	5.94%	34.5	1320	1380	4.55%

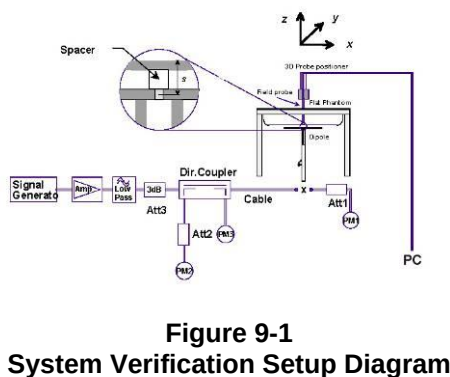


Figure 9-1

System Verification Setup Diagram



Figure 9-2

System Verification Setup Photo

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9.2 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.

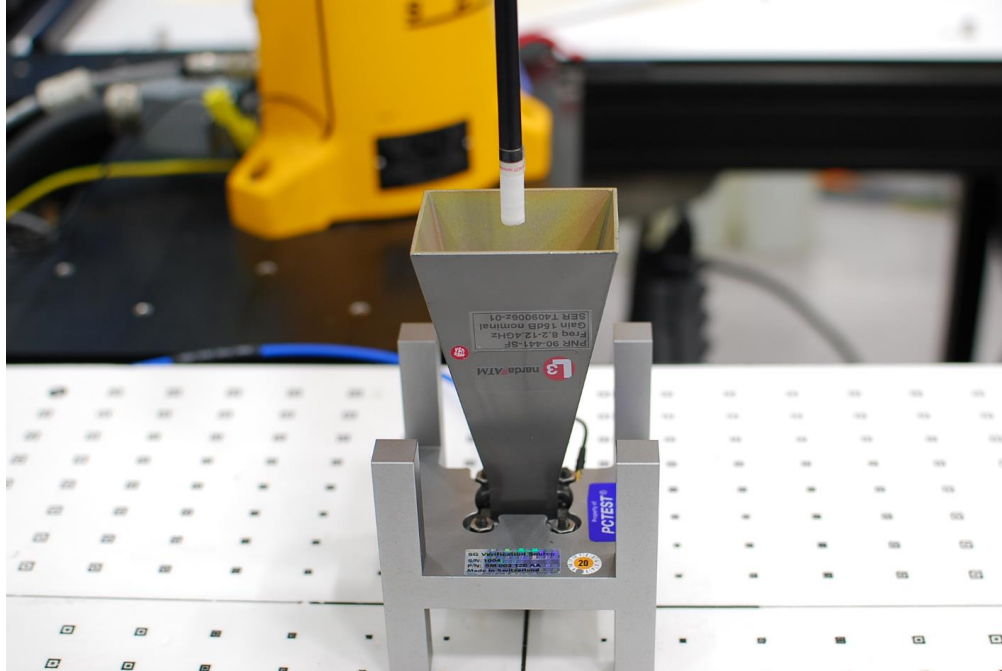


Figure 9-3
System Verification Setup Photo

Table 9-3
10 GHz Verification Results

SAR System	Frequency (GHz)	Date	Source SN	Probe SN	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	01/29/2024	1002	9407	89.1	56.20	52.80	0.27	56.30	53.10	0.25

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

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10 SAR DATA SUMMARY

10.1 UMTS 850 Standalone SAR

Table 10-1 Antenna 1

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	UMTS 850	RMC	1	9GLW0	1:1	0.03	826.40	4132	20.20	19.32	Back	0	0.724	0.269	1.225	0.887	0.330	A1	19.7	19.7
Body	UMTS 850	RMC	1	9GLW0	1:1	0.01	836.60	4183	20.20	19.34	Back	0	0.682	0.254	1.219	0.831	0.310		20.0	
Body	UMTS 850	RMC	1	9GLW0	1:1	-0.01	846.60	4233	20.20	19.31	Back	0	0.677	0.261	1.227	0.831	0.320		20.0	
Body	UMTS 850	RMC	1	9GLW0	1:1	-0.13	836.60	4183	20.20	19.34	Top	0	0.036	0.015	1.219	0.044	0.018		32.8	
Body	UMTS 850	RMC	1	9GLW0	1:1	-0.05	836.60	4183	20.20	19.34	Bottom	0	0.580	0.201	1.219	0.707	0.245		20.7	
Body	UMTS 850	RMC	1	9GLW0	1:1	0.00	836.60	4183	20.20	19.34	Right	0	0.052	0.023	1.219	0.063	0.028		31.2	
Body	UMTS 850	RMC	1	9GLW0	1:1	0.00	836.60	4183	20.20	19.34	Left	0	0.358	0.156	1.219	0.436	0.190		22.8	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population												Body 1.6 W/kg (mW/g) averaged over 1 gram								

Table 10-2 Antenna 3

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	UMTS 850	RMC	3	W3TJ2	1:1	0.01	826.40	4132	19.70	18.89	Back	0	0.686	0.351	1.205	0.827	0.423		19.5	19.5
Body	UMTS 850	RMC	3	W3TJ2	1:1	0.02	836.60	4183	19.70	18.85	Back	0	0.672	0.343	1.216	0.817	0.417		19.6	
Body	UMTS 850	RMC	3	W3TJ2	1:1	-0.01	846.60	4233	19.70	18.76	Back	0	0.660	0.334	1.242	0.820	0.415		19.5	
Body	UMTS 850	RMC	3	W3TJ2	1:1	0.01	826.40	4132	19.70	18.89	Top	0	0.651	0.236	1.205	0.784	0.284		19.7	
Body	UMTS 850	RMC	3	W3TJ2	1:1	0.20	826.40	4132	19.70	18.89	Bottom	0	0.030	0.015	1.205	0.036	0.018		33.1	
Body	UMTS 850	RMC	3	W3TJ2	1:1	-0.02	826.40	4132	19.70	18.89	Right	0	0.273	0.119	1.205	0.329	0.143		23.5	
Body	UMTS 850	RMC	3	W3TJ2	1:1	-0.08	826.40	4132	19.70	18.89	Left	0	0.032	0.014	1.205	0.039	0.017		32.8	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT												Body								
Spatial Peak												1.6 W/kg (mW/g)								
Uncontrolled Exposure/General Population												averaged over 1 gram								

10.2 UMTS 1750 Standalone SAR

Table 10-3 Antenna 1

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	UMTS 1750	RMC	1	F7951	1:1	0.02	1712.40	1312	14.50	14.07	Back	0	0.740	0.316	1.104	0.817	0.349		14.4	13.9
Body	UMTS 1750	RMC	1	F7951	1:1	0.02	1732.40	1412	14.50	14.11	Back	0	0.779	0.334	1.094	0.852	0.365		14.2	
Body	UMTS 1750	RMC	1	F7951	1:1	0.04	1752.60	1513	14.50	14.04	Back	0	0.822	0.350	1.112	0.914	0.389		13.9	
Body	UMTS 1750	RMC	1	F7951	1:1	0.07	1732.40	1412	14.50	14.11	Top	0	0.000	0.000	1.094	0.000	0.000		53.1	
Body	UMTS 1750	RMC	1	F7951	1:1	0.01	1732.40	1412	14.50	14.11	Bottom	0	0.477	0.189	1.094	0.522	0.207		16.3	
Body	UMTS 1750	RMC	1	F7951	1:1	-0.02	1732.40	1412	14.50	14.11	Right	0	0.009	0.004	1.094	0.010	0.004		33.5	
Body	UMTS 1750	RMC	1	F7951	1:1	0.00	1732.40	1412	14.50	14.11	Left	0	0.066	0.026	1.094	0.072	0.028		24.9	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population												Body 1.6 W/kg (mW/g) averaged over 1 gram								

Table 10-4 Antenna 2b

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	UMTS 1750	RMC	2b	FW1J2	1:1	-0.06	1712.40	1312	13.20	12.80	Back	0	0.709	0.292	1.096	0.777	0.320		13.3	12.7
Body	UMTS 1750	RMC	2b	FW1J2	1:1	-0.01	1732.40	1412	13.20	12.90	Back	0	0.772	0.314	1.072	0.828	0.337		13.0	
Body	UMTS 1750	RMC	2b	FW1J2	1:1	-0.03	1752.60	1513	13.20	12.89	Back	0	0.835	0.339	1.074	0.897	0.364		12.7	
Body	UMTS 1750	RMC	2b	FW1J2	1:1	0.06	1732.40	1412	13.20	12.90	Top	0	0.004	0.002	1.072	0.004	0.002		35.9	
Body	UMTS 1750	RMC	2b	FW1J2	1:1	0.00	1712.40	1312	13.20	12.80	Bottom	0	0.773	0.292	1.096	0.847	0.320		12.9	
Body	UMTS 1750	RMC	2b	FW1J2	1:1	-0.02	1732.40	1412	13.20	12.90	Bottom	0	0.748	0.277	1.072	0.802	0.297		13.1	
Body	UMTS 1750	RMC	2b	FW1J2	1:1	0.00	1752.60	1513	13.20	12.89	Bottom	0	0.816	0.305	1.074	0.876	0.328		12.8	
Body	UMTS 1750	RMC	2b	FW1J2	1:1	0.02	1732.40	1412	13.20	12.90	Right	0	0.030	0.014	1.072	0.032	0.015		27.1	
Body	UMTS 1750	RMC	2b	FW1J2	1:1	0.09	1732.40	1412	13.20	12.90	Left	0	0.003	0.000	1.072	0.003	0.000		37.1	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT												Body								
Spatial Peak												1.6 W/kg (mW/g)								
Uncontrolled Exposure/General Population												averaged over 1 gram								

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Table 10-5 Antenna 3

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	UMTS 1750	RMC	3	QK49K	1:1	0.01	1712.40	1312	16.10	15.46	Back	0	0.642	0.316	1.159	0.744	0.366		16.4	15.1
Body	UMTS 1750	RMC	3	QK49K	1:1	-0.01	1732.40	1412	16.10	15.45	Back	0	0.624	0.310	1.161	0.724	0.360		16.5	
Body	UMTS 1750	RMC	3	QK49K	1:1	-0.01	1752.60	1513	16.10	15.42	Back	0	0.629	0.312	1.169	0.735	0.365		16.4	
Body	UMTS 1750	RMC	3	QK49K	1:1	0.01	1712.40	1312	16.10	15.46	Top	0	0.555	0.221	1.159	0.643	0.256		17.0	
Body	UMTS 1750	RMC	3	QK49K	1:1	0.11	1712.40	1312	16.10	15.46	Bottom	0	0.110	0.049	1.159	0.127	0.057		24.0	
Body	UMTS 1750	RMC	3	QK49K	1:1	0.00	1712.40	1312	16.10	15.46	Right	0	0.834	0.348	1.159	0.967	0.403		15.2	
Body	UMTS 1750	RMC	3	QK49K	1:1	-0.01	1732.40	1412	16.10	15.45	Right	0	0.839	0.351	1.161	0.974	0.408		15.2	
Body	UMTS 1750	RMC	3	QK49K	1:1	0.00	1752.60	1513	16.10	15.42	Right	0	0.848	0.355	1.169	0.991	0.415	A2	15.1	
Body	UMTS 1750	RMC	3	QK49K	1:1	0.07	1712.40	1312	16.10	15.46	Left	0	0.017	0.008	1.159	0.020	0.009		32.1	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population											Body 1.6 W/kg (mW/g) averaged over 1 gram									

Table 10-6 Antenna 4b

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	UMTS 1750	RMC	4b	944SJ	1:1	-0.02	1752.60	1513	12.90	11.84	Back	0	0.494	0.207	1.276	0.630	0.264		13.9	12.2
Body	UMTS 1750	RMC	4b	944SJ	1:1	-0.02	1712.40	1312	12.90	11.82	Top	0	0.635	0.236	1.282	0.814	0.303		12.8	
Body	UMTS 1750	RMC	4b	944SJ	1:1	0.00	1732.40	1412	12.90	11.80	Top	0	0.678	0.252	1.288	0.873	0.325		12.5	
Body	UMTS 1750	RMC	4b	944SJ	1:1	-0.01	1752.60	1513	12.90	11.84	Top	0	0.720	0.268	1.276	0.919	0.342		12.2	
Body	UMTS 1750	RMC	4b	944SJ	1:1	0.08	1752.60	1513	12.90	11.84	Bottom	0	0.000	0.000	1.276	0.000	0.000		50.8	
Body	UMTS 1750	RMC	4b	944SJ	1:1	0.06	1752.60	1513	12.90	11.84	Right	0	0.003	0.001	1.276	0.004	0.001		36.0	
Body	UMTS 1750	RMC	4b	944SJ	1:1	-0.04	1752.60	1513	12.90	11.84	Left	0	0.019	0.009	1.276	0.024	0.011		28.0	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population											Body 1.6 W/kg (mW/g) averaged over 1 gram									

10.3 UMTS 1900 Standalone SAR

Table 10-7 Antenna 1

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	UMTS 1900	RMC	1	F7951	1:1	0.00	1852.40	9262	13.60	12.91	Back	0	0.823	0.331	1.172	0.965	0.388		12.7	12.7
Body	UMTS 1900	RMC	1	F7951	1:1	-0.01	1880.00	9400	13.60	12.94	Back	0	0.830	0.332	1.164	0.966	0.386	A3	12.7	
Body	UMTS 1900	RMC	1	F7951	1:1	0.01	1907.60	9538	13.60	12.92	Back	0	0.819	0.330	1.169	0.957	0.386		12.8	
Body	UMTS 1900	RMC	1	F7951	1:1	0.04	1880.00	9400	13.60	12.94	Top	0	0.000	0.000	1.164	0.000	0.000		51.9	
Body	UMTS 1900	RMC	1	F7951	1:1	0.00	1880.00	9400	13.60	12.94	Bottom	0	0.412	0.160	1.164	0.480	0.186		15.8	
Body	UMTS 1900	RMC	1	F7951	1:1	0.09	1880.00	9400	13.60	12.94	Right	0	0.010	0.003	1.164	0.012	0.003		31.9	
Body	UMTS 1900	RMC	1	F7951	1:1	-0.02	1880.00	9400	13.60	12.94	Left	0	0.550	0.185	1.164	0.640	0.215		14.5	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population											Body 1.6 W/kg (mW/g) averaged over 1 gram									

Table 10-8 Antenna 2b

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	UMTS 1900	RMC	2b	F7951	1:1	0.01	1852.40	9262	12.50	11.64	Back	0	0.740	0.296	1.219	0.902	0.361		11.9	11.7
Body	UMTS 1900	RMC	2b	F7951	1:1	0.01	1880.00	9400	12.50	11.70	Back	0	0.766	0.305	1.202	0.921	0.367		11.8	
Body	UMTS 1900	RMC	2b	F7951	1:1	0.01	1907.60	9538	12.50	11.60	Back	0	0.769	0.305	1.230	0.946	0.375		11.7	
Body	UMTS 1900	RMC	2b	F7951	1:1	0.05	1880.00	9400	12.50	11.70	Top	0	0.001	0.000	1.202	0.001	0.000		40.7	
Body	UMTS 1900	RMC	2b	F7951	1:1	0.00	1852.40	9262	12.50	11.64	Bottom	0	0.667	0.240	1.219	0.813	0.293		12.4	
Body	UMTS 1900	RMC	2b	F7951	1:1	0.01	1880.00	9400	12.50	11.70	Bottom	0	0.703	0.253	1.202	0.845	0.304		12.2	
Body	UMTS 1900	RMC	2b	F7951	1:1	-0.01	1907.60	9538	12.50	11.60	Bottom	0	0.716	0.257	1.230	0.881	0.316		12.0	
Body	UMTS 1900	RMC	2b	F7951	1:1	0.01	1880.00	9400	12.50	11.70	Right	0	0.066	0.027	1.202	0.079	0.032		22.5	
Body	UMTS 1900	RMC	2b	F7951	1:1	0.01	1880.00	9400	12.50	11.70	Left	0	0.017	0.007	1.202	0.020	0.008		28.4	
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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Table 10-9 Antenna 3

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]	
Body	UMTS 1900	RMC	3	QKX03	1:1	0.00	1852.40	9262	14.80	14.03	Back	0	0.545	0.260	1.194	0.651	0.310		15.6	13.9	
Body	UMTS 1900	RMC	3	QKX03	1:1	0.04	1852.40	9262	14.80	14.03	Top	0	0.492	0.192	1.194	0.587	0.229		16.1		
Body	UMTS 1900	RMC	3	QKX03	1:1	0.04	1852.40	9262	14.80	14.03	Bottom	0	0.008	0.003	1.194	0.010	0.004		34.0		
Body	UMTS 1900	RMC	3	QKX03	1:1	0.03	1852.40	9262	14.80	14.03	Right	0	0.675	0.279	1.194	0.806	0.333		14.7		
Body	UMTS 1900	RMC	3	QKX03	1:1	0.01	1880.00	9400	14.80	13.77	Right	0	0.727	0.303	1.268	0.922	0.384		14.1		
Body	UMTS 1900	RMC	3	QKX03	1:1	0.04	1907.60	9538	14.80	13.68	Right	0	0.755	0.313	1.294	0.977	0.405		13.9		
Body	UMTS 1900	RMC	3	QKX03	1:1	0.01	1852.40	9262	14.80	14.03	Left	0	0.002	0.000	1.194	0.002	0.000		40.0		
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population												Body 1.6 W/kg (mW/g) averaged over 1 gram									

Table 10-10 Antenna 4b

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]	
Body	UMTS 1900	RMC	4b	4R6K6	1:1	-0.08	1880.00	9400	12.30	10.94	Back	0	0.544	0.221	1.368	0.744	0.302		12.6	11.5	
Body	UMTS 1900	RMC	4b	4R6K6	1:1	-0.03	1852.40	9262	12.30	10.89	Top	0	0.690	0.258	1.384	0.955	0.357		11.5		
Body	UMTS 1900	RMC	4b	4R6K6	1:1	-0.03	1880.00	9400	12.30	10.94	Top	0	0.689	0.257	1.368	0.943	0.352		11.5		
Body	UMTS 1900	RMC	4b	4R6K6	1:1	-0.02	1907.60	9538	12.30	10.84	Top	0	0.680	0.254	1.400	0.952	0.356		11.5		
Body	UMTS 1900	RMC	4b	4R6K6	1:1	0.13	1880.00	9400	12.30	10.94	Bottom	0	0.000	0.000	1.368	0.000	0.000		49.9		
Body	UMTS 1900	RMC	4b	4R6K6	1:1	0.13	1880.00	9400	12.30	10.94	Right	0	0.006	0.002	1.368	0.008	0.003		32.1		
Body	UMTS 1900	RMC	4b	4R6K6	1:1	-0.01	1880.00	9400	12.30	10.94	Left	0	0.046	0.020	1.368	0.063	0.027		23.3		
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population												Body 1.6 W/kg (mW/g) averaged over 1 gram									

10.4 LTE Band 71 Standalone SAR

Table 10-11 Antenna 1

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]	
Body	LTE Band 71	20	QPSK	1	9445J	1:1	0.03	680.50	133297	0.0	19.80	18.30	1	50	Back	0	0.671	0.261	1.413	0.948	0.369		19.0	18.8	
Body	LTE Band 71	20	QPSK	1	9445J	1:1	0.00	680.50	133297	0.0	19.80	18.32	50	25	Back	0	0.704	0.273	1.406	0.990	0.384		18.8		
Body	LTE Band 71	20	QPSK	1	9445J	1:1	0.00	680.50	133297	0.0	19.80	18.29	100	0	Back	0	0.688	0.267	1.416	0.974	0.378		18.9		
Body	LTE Band 71	20	QPSK	1	9445J	1:1	-0.21	680.50	133297	0.0	19.80	18.30	1	50	Top	0	0.011	0.004	1.413	0.016	0.006		36.9		
Body	LTE Band 71	20	QPSK	1	9445J	1:1	0.07	680.50	133297	0.0	19.80	18.32	50	25	Top	0	0.013	0.006	1.406	0.018	0.008		36.2		
Body	LTE Band 71	20	QPSK	1	9445J	1:1	0.08	680.50	133297	0.0	19.80	18.30	1	50	Bottom	0	0.515	0.188	1.413	0.728	0.266		20.2		
Body	LTE Band 71	20	QPSK	1	9445J	1:1	0.01	680.50	133297	0.0	19.80	18.32	50	25	Bottom	0	0.521	0.190	1.406	0.733	0.267		20.1		
Body	LTE Band 71	20	QPSK	1	9445J	1:1	0.06	680.50	133297	0.0	19.80	18.30	1	50	Right	0	0.038	0.014	1.413	0.054	0.020		31.5		
Body	LTE Band 71	20	QPSK	1	9445J	1:1	0.05	680.50	133297	0.0	19.80	18.32	50	25	Right	0	0.037	0.013	1.406	0.052	0.018		31.6		
Body	LTE Band 71	20	QPSK	1	9445J	1:1	0.01	680.50	133297	0.0	19.80	18.30	1	50	Left	0	0.238	0.096	1.413	0.336	0.136		23.5		
Body	LTE Band 71	20	QPSK	1	9445J	1:1	0.03	680.50	133297	0.0	19.80	18.32	50	25	Left	0	0.236	0.095	1.406	0.332	0.134		23.6		
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 10-12 Antenna 3

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 71	20	QPSK	3	W3TJ2	1:1	-0.06	680.50	133297	0.0	19.50	19.12	1	50	Back	0	0.607	0.311	1.091	0.662	0.339		20.3	19.0
Body	LTE Band 71	20	QPSK	3	W3TJ2	1:1	0.00	680.50	133297	0.0	19.50	19.13	50	25	Back	0	0.631	0.321	1.089	0.687	0.350		20.1	
Body	LTE Band 71	20	QPSK	3	W3TJ2	1:1	0.09	680.50	133297	0.0	19.50	19.12	1	50	Top	0	0.908	0.291	1.091	0.882	0.317	A4	19.0	
Body	LTE Band 71	20	QPSK	3	W3TJ2	1:1	-0.05	680.50	133297	0.0	19.50	19.13	50	25	Top	0	0.752	0.274	1.089	0.819	0.298		19.3	
Body	LTE Band 71	20	QPSK	3	W3TJ2	1:1	0.02	680.50	133297	0.0	19.50	19.10	100	0	Top	0	0.755	0.274	1.096	0.827	0.300		19.3	
Body	LTE Band 71	20	QPSK	3	W3TJ2	1:1	0.02	680.50	133297	0.0	19.50	19.12	1	50	Bottom	0	0.012	0.005	1.091	0.013	0.005		37.3	
Body	LTE Band 71	20	QPSK	3	W3TJ2	1:1	-0.15	680.50	133297	0.0	19.50	19.13	50	25	Bottom	0	0.013	0.006	1.089	0.014	0.007		37.0	
Body	LTE Band 71	20	QPSK	3	W3TJ2	1:1	0.04	680.50	133297	0.0	19.50	19.12	1	50	Right	0	0.168	0.070	1.091	0.183	0.076		25.8	
Body	LTE Band 71	20	QPSK	3	W3TJ2	1:1	0.07	680.50	133297	0.0	19.50	19.13	50	25	Right	0	0.234	0.111	1.089	0.255	0.121		24.4	
Body	LTE Band 71	20	QPSK	3	W3TJ2	1:1	0.03	680.50	133297	0.0	19.50	19.12	1	50	Left	0	0.054	0.027	1.091	0.059	0.029		30.8	
Body	LTE Band 71	20	QPSK	3	W3TJ2	1:1	0.01	680.50	133297	0.0	19.50	19.13	50	25	Left	0	0.061	0.031	1.089	0.066	0.034		30.3	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT												Body												
Spatial Peak												1.6 W/kg (mW/g)												
Uncontrolled Exposure/General Population												averaged over 1 gram												

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10.5 LTE Band 12 Standalone SAR

Table 10-13 Antenna 1

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 12	10	QPSK	1	9445J	1:1	-0.11	707.50	23095	0.0	20.30	18.71	1	0	Back	0	0.630	0.239	1.442	0.908	0.345		19.7	
Body	LTE Band 12	10	QPSK	1	9445J	1:1	0.02	707.50	23095	0.0	20.30	18.78	25	12	Back	0	0.610	0.237	1.419	0.866	0.336		19.9	
Body	LTE Band 12	10	QPSK	1	9445J	1:1	-0.01	707.50	23095	0.0	20.30	18.70	50	0	Back	0	0.598	0.233	1.445	0.864	0.337		19.9	
Body	LTE Band 12	10	QPSK	1	9445J	1:1	-0.05	707.50	23095	0.0	20.30	18.71	1	0	Top	0	0.015	0.007	1.442	0.022	0.010		35.9	
Body	LTE Band 12	10	QPSK	1	9445J	1:1	-0.17	707.50	23095	0.0	20.30	18.78	25	12	Top	0	0.016	0.008	1.419	0.023	0.011		35.7	
Body	LTE Band 12	10	QPSK	1	9445J	1:1	0.01	707.50	23095	0.0	20.30	18.71	1	0	Bottom	0	0.574	0.210	1.442	0.828	0.303		20.1	
Body	LTE Band 12	10	QPSK	1	9445J	1:1	0.01	707.50	23095	0.0	20.30	18.78	25	12	Bottom	0	0.575	0.209	1.419	0.816	0.297		20.2	
Body	LTE Band 12	10	QPSK	1	9445J	1:1	0.00	707.50	23095	0.0	20.30	18.70	50	0	Bottom	0	0.447	0.156	1.445	0.646	0.225		21.2	
Body	LTE Band 12	10	QPSK	1	9445J	1:1	0.09	707.50	23095	0.0	20.30	18.71	1	0	Right	0	0.038	0.016	1.442	0.055	0.023		31.9	
Body	LTE Band 12	10	QPSK	1	9445J	1:1	0.04	707.50	23095	0.0	20.30	18.78	25	12	Right	0	0.038	0.016	1.419	0.054	0.023		32.0	
Body	LTE Band 12	10	QPSK	1	9445J	1:1	-0.13	707.50	23095	0.0	20.30	18.71	1	0	Left	0	0.331	0.135	1.442	0.477	0.195		22.5	
Body	LTE Band 12	10	QPSK	1	9445J	1:1	0.05	707.50	23095	0.0	20.30	18.78	25	12	Left	0	0.340	0.141	1.419	0.482	0.200		22.4	
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 10-14 Antenna 3

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 12	10	QPSK	3	4R6K6	1:1	0.13	707.50	23095	0.0	19.20	18.30	1	25	Back	0	0.590	0.308	1.230	0.726	0.379		19.6	
Body	LTE Band 12	10	QPSK	3	4R6K6	1:1	0.06	707.50	23095	0.0	19.20	18.36	25	25	Back	0	0.587	0.306	1.213	0.712	0.371		19.7	
Body	LTE Band 12	10	QPSK	3	4R6K6	1:1	0.03	707.50	23095	0.0	19.20	18.30	1	25	Top	0	0.801	0.293	1.230	0.985	0.360	A5	18.2	
Body	LTE Band 12	10	QPSK	3	4R6K6	1:1	-0.09	707.50	23095	0.0	19.20	18.36	25	25	Top	0	0.779	0.283	1.213	0.945	0.343		18.4	
Body	LTE Band 12	10	QPSK	3	4R6K6	1:1	-0.06	707.50	23095	0.0	19.20	18.28	50	0	Top	0	0.785	0.284	1.236	0.970	0.351		18.3	
Body	LTE Band 12	10	QPSK	3	4R6K6	1:1	0.06	707.50	23095	0.0	19.20	18.30	1	25	Bottom	0	0.030	0.010	1.230	0.037	0.012		32.5	18.2
Body	LTE Band 12	10	QPSK	3	4R6K6	1:1	-0.10	707.50	23095	0.0	19.20	18.36	25	25	Bottom	0	0.023	0.010	1.213	0.028	0.012		33.7	
Body	LTE Band 12	10	QPSK	3	4R6K6	1:1	-0.01	707.50	23095	0.0	19.20	18.30	1	25	Right	0	0.235	0.109	1.230	0.289	0.134		23.6	
Body	LTE Band 12	10	QPSK	3	4R6K6	1:1	0.04	707.50	23095	0.0	19.20	18.36	25	25	Right	0	0.215	0.100	1.213	0.261	0.121		24.0	
Body	LTE Band 12	10	QPSK	3	4R6K6	1:1	-0.16	707.50	23095	0.0	19.20	18.30	1	25	Left	0	0.037	0.015	1.230	0.046	0.018		31.6	
Body	LTE Band 12	10	QPSK	3	4R6K6	1:1	0.08	707.50	23095	0.0	19.20	18.36	25	25	Left	0	0.038	0.015	1.213	0.046	0.018		31.5	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																Body								
Spatial Peak																1.6 W/kg (mW/g)								
Uncontrolled Exposure/General Population																averaged over 1 gram								

10.6 LTE Band 13 Standalone SAR

Table 10-15 Antenna 1

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 13	10	QPSK	1	QK49K	1:1	0.01	782.00	23230	0.0	21.50	20.98	1	0	Back	0	0.762	0.336	1.127	0.859	0.379		21.1	20.7
Body	LTE Band 13	10	QPSK	1	QK49K	1:1	0.03	782.00	23230	0.0	21.50	21.04	25	12	Back	0	0.835	0.396	1.112	0.929	0.440		20.8	
Body	LTE Band 13	10	QPSK	1	QK49K	1:1	0.00	782.00	23230	0.0	21.50	20.96	50	0	Back	0	0.827	0.394	1.132	0.936	0.446		20.8	
Body	LTE Band 13	10	QPSK	1	QK49K	1:1	-0.04	782.00	23230	0.0	21.50	20.98	1	0	Top	0	0.011	0.006	1.127	0.012	0.007		39.5	
Body	LTE Band 13	10	QPSK	1	QK49K	1:1	0.05	782.00	23230	0.0	21.50	21.04	25	12	Top	0	0.008	0.004	1.112	0.009	0.004		41.0	
Body	LTE Band 13	10	QPSK	1	QK49K	1:1	0.02	782.00	23230	0.0	21.50	20.98	1	0	Bottom	0	0.838	0.305	1.127	0.944	0.344	A6	20.7	
Body	LTE Band 13	10	QPSK	1	QK49K	1:1	-0.03	782.00	23230	0.0	21.50	21.04	25	12	Bottom	0	0.812	0.298	1.112	0.903	0.331		20.9	
Body	LTE Band 13	10	QPSK	1	QK49K	1:1	-0.02	782.00	23230	0.0	21.50	20.96	50	0	Bottom	0	0.833	0.302	1.132	0.943	0.342		20.7	
Body	LTE Band 13	10	QPSK	1	QK49K	1:1	0.11	782.00	23230	0.0	21.50	20.98	1	0	Right	0	0.018	0.008	1.127	0.020	0.009		37.4	
Body	LTE Band 13	10	QPSK	1	QK49K	1:1	-0.16	782.00	23230	0.0	21.50	21.04	25	12	Right	0	0.020	0.009	1.112	0.022	0.010		37.0	
Body	LTE Band 13	10	QPSK	1	QK49K	1:1	-0.01	782.00	23230	0.0	21.50	20.98	1	0	Left	0	0.140	0.064	1.127	0.158	0.072		28.5	
Body	LTE Band 13	10	QPSK	1	QK49K	1:1	-0.01	782.00	23230	0.0	21.50	21.04	25	12	Left	0	0.135	0.062	1.112	0.150	0.069		28.7	
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 10-16 Antenna 3

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 13	10	QPSK	3	W3TJ2	1:1	-0.14	782.00	23230	0.0	19.80	18.86	1	0	Back	0	0.671	0.353	1.242	0.833	0.438		19.6	18.8
Body	LTE Band 13	10	QPSK	3	W3TJ2	1:1	0.00	782.00	23230	0.0	19.80	18.88	25	12	Back	0	0.646	0.340	1.236	0.798	0.420		19.8	
Body	LTE Band 13	10	QPSK	3	W3TJ2	1:1	-0.03	782.00	23230	0.0	19.80	18.77	50	0	Back	0	0.650	0.339	1.268	0.824	0.430		19.6	
Body	LTE Band 13	10	QPSK	3	W3TJ2	1:1	0.01	782.00	23230	0.0	19.80	18.86	1	0	Top	0	0.764	0.264	1.242	0.949	0.328		19.0	
Body	LTE Band 13	10	QPSK	3	W3TJ2	1:1	0.00	782.00	23230	0.0	19.80	18.88	25	12	Top	0	0.790	0.269	1.236	0.976	0.332		18.9	
Body	LTE Band 13	10	QPSK	3	W3TJ2	1:1	-0.03	782.00	23230	0.0	19.80	18.77	50	0	Top	0	0.782	0.270	1.268	0.992	0.342		18.8	
Body	LTE Band 13	10	QPSK	3	W3TJ2	1:1	0.02	782.00	23230	0.0	19.80	18.86	1	0	Bottom	0	0.033	0.016	1.242	0.041	0.020		32.7	
Body	LTE Band 13	10	QPSK	3	W3TJ2	1:1	-0.06	782.00	23230	0.0	19.80	18.88	25	12	Bottom	0	0.032	0.016	1.236	0.040	0.020		32.8	
Body	LTE Band 13	10	QPSK	3	W3TJ2	1:1	-0.01	782.00	23230	0.0	19.80	18.86	1	0	Right	0	0.252	0.120	1.242	0.313	0.149		23.8	
Body	LTE Band 13	10	QPSK	3	W3TJ2	1:1	0.06	782.00	23230	0.0	19.80	18.88	25	12	Right	0	0.298	0.137	1.236	0.368	0.169		23.1	
Body	LTE Band 13	10	QPSK	3	W3TJ2	1:1	-0.18	782.00	23230	0.0	19.80	18.86	1	0	Left	0	0.043	0.023	1.242	0.053	0.029		31.5	
Body	LTE Band 13	10	QPSK	3	W3TJ2	1:1	0.08	782.00	23230	0.0	19.80	18.88	25	12	Left	0	0.051	0.028	1.236	0.063	0.035		30.8	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																Body								
Spatial Peak																1.6 W/kg (mW/g)								
Uncontrolled Exposure/General Population																averaged over 1 gram								

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10.7 LTE Band 14 Standalone SAR

Table 10-17 Antenna 1

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 14	10	QPSK	1	OK49K	1:1	-0.04	793.00	23330	0.0	20.10	18.99	1	0	Back	0	0.692	0.293	1.291	0.893	0.378		19.6	19.5
Body	LTE Band 14	10	QPSK	1	OK49K	1:1	0.01	793.00	23330	0.0	20.10	18.99	25	0	Back	0	0.684	0.290	1.291	0.883	0.374		19.6	
Body	LTE Band 14	10	QPSK	1	OK49K	1:1	-0.01	793.00	23330	0.0	20.10	18.96	50	0	Back	0	0.688	0.282	1.300	0.894	0.367		19.6	
Body	LTE Band 14	10	QPSK	1	OK49K	1:1	-0.18	793.00	23330	0.0	20.10	18.99	1	0	Top	0	0.017	0.008	1.291	0.022	0.010		35.7	
Body	LTE Band 14	10	QPSK	1	OK49K	1:1	0.08	793.00	23330	0.0	20.10	18.99	25	0	Top	0	0.016	0.008	1.291	0.021	0.010		35.9	
Body	LTE Band 14	10	QPSK	1	OK49K	1:1	0.02	793.00	23330	0.0	20.10	18.99	1	0	Bottom	0	0.707	0.245	1.291	0.913	0.316	A7	19.5	
Body	LTE Band 14	10	QPSK	1	OK49K	1:1	0.00	793.00	23330	0.0	20.10	18.99	25	0	Bottom	0	0.695	0.240	1.291	0.897	0.310		19.6	
Body	LTE Band 14	10	QPSK	1	OK49K	1:1	0.00	793.00	23330	0.0	20.10	18.96	50	0	Bottom	0	0.690	0.238	1.300	0.897	0.309		19.6	
Body	LTE Band 14	10	QPSK	1	OK49K	1:1	-0.15	793.00	23330	0.0	20.10	18.99	1	0	Right	0	0.015	0.007	1.291	0.019	0.009		36.2	
Body	LTE Band 14	10	QPSK	1	OK49K	1:1	0.11	793.00	23330	0.0	20.10	18.99	25	0	Right	0	0.015	0.007	1.291	0.019	0.009		36.2	
Body	LTE Band 14	10	QPSK	1	OK49K	1:1	0.03	793.00	23330	0.0	20.10	18.99	1	0	Left	0	0.465	0.194	1.291	0.600	0.250		21.3	
Body	LTE Band 14	10	QPSK	1	OK49K	1:1	0.01	793.00	23330	0.0	20.10	18.99	25	0	Left	0	0.465	0.195	1.291	0.600	0.252		21.3	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																	Body 1.6 W/kg (mW/g) averaged over 1 gram							

Table 10-18 Antenna 3

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 14	10	QPSK	3	LQJDP	1:1	0.00	793.00	23330	0.0	19.80	18.30	1	25	Back	0	0.554	0.291	1.413	0.783	0.411		19.8	19.0
Body	LTE Band 14	10	QPSK	3	LQJDP	1:1	-0.03	793.00	23330	0.0	19.80	18.29	25	25	Back	0	0.528	0.277	1.416	0.748	0.392		20.0	
Body	LTE Band 14	10	QPSK	3	LQJDP	1:1	0.06	793.00	23330	0.0	19.80	18.30	1	25	Top	0	0.643	0.222	1.413	0.909	0.314		19.2	
Body	LTE Band 14	10	QPSK	3	LQJDP	1:1	-0.08	793.00	23330	0.0	19.80	18.29	25	25	Top	0	0.636	0.220	1.416	0.901	0.312		19.2	
Body	LTE Band 14	10	QPSK	3	LQJDP	1:1	0.03	793.00	23330	0.0	19.80	18.22	50	0	Top	0	0.654	0.224	1.439	0.941	0.322		19.0	
Body	LTE Band 14	10	QPSK	3	LQJDP	1:1	0.05	793.00	23330	0.0	19.80	18.30	1	25	Bottom	0	0.017	0.009	1.413	0.024	0.013		35.0	
Body	LTE Band 14	10	QPSK	3	LQJDP	1:1	-0.04	793.00	23330	0.0	19.80	18.29	25	25	Bottom	0	0.023	0.012	1.416	0.033	0.017		33.7	
Body	LTE Band 14	10	QPSK	3	LQJDP	1:1	-0.03	793.00	23330	0.0	19.80	18.30	1	25	Right	0	0.217	0.102	1.413	0.307	0.144		23.9	
Body	LTE Band 14	10	QPSK	3	LQJDP	1:1	-0.04	793.00	23330	0.0	19.80	18.29	25	25	Right	0	0.213	0.100	1.416	0.302	0.142		24.0	
Body	LTE Band 14	10	QPSK	3	LQJDP	1:1	0.09	793.00	23330	0.0	19.80	18.30	1	25	Left	0	0.046	0.020	1.413	0.065	0.028		30.7	
Body	LTE Band 14	10	QPSK	3	LQJDP	1:1	0.18	793.00	23330	0.0	19.80	18.29	25	25	Left	0	0.041	0.018	1.416	0.058	0.025		31.1	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																	Body 1.6 W/kg (mW/g) averaged over 1 gram							

10.8 LTE Band 26 (Cell) Standalone SAR

Table 10-19 Antenna 1

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 26	10	QPSK	1	9GLW0	1:1	0.02	819.00	26740	0.0	20.20	19.02	1	0	Back	0	0.727	0.270	1.312	0.954	0.354		19.4	19.2
Body	LTE Band 26	10	QPSK	1	9GLW0	1:1	0.18	831.50	26865	0.0	20.20	18.93	1	0	Back	0	0.698	0.253	1.340	0.935	0.339		19.5	
Body	LTE Band 26	10	QPSK	1	9GLW0	1:1	0.13	844.00	26990	0.0	20.20	18.73	1	0	Back	0	0.615	0.235	1.403	0.863	0.330		19.8	
Body	LTE Band 26	10	QPSK	1	9GLW0	1:1	0.00	819.00	26740	0.0	20.20	18.98	25	12	Back	0	0.750	0.278	1.324	0.993	0.368	A8	19.2	
Body	LTE Band 26	10	QPSK	1	9GLW0	1:1	-0.03	831.50	26865	0.0	20.20	18.91	25	12	Back	0	0.648	0.243	1.346	0.872	0.327		19.8	
Body	LTE Band 26	10	QPSK	1	9GLW0	1:1	0.01	844.00	26990	0.0	20.20	18.88	25	25	Back	0	0.594	0.230	1.355	0.805	0.312		20.1	
Body	LTE Band 26	10	QPSK	1	9GLW0	1:1	0.04	819.00	26740	0.0	20.20	18.96	50	0	Back	0	0.739	0.278	1.330	0.983	0.370		19.3	
Body	LTE Band 26	10	QPSK	1	9GLW0	1:1	-0.21	819.00	26740	0.0	20.20	19.02	1	0	Top	0	0.026	0.010	1.312	0.034	0.013		33.9	
Body	LTE Band 26	10	QPSK	1	9GLW0	1:1	0.02	819.00	26740	0.0	20.20	18.98	25	12	Top	0	0.024	0.009	1.324	0.032	0.012		34.2	
Body	LTE Band 26	10	QPSK	1	9GLW0	1:1	0.04	819.00	26740	0.0	20.20	19.02	1	0	Bottom	0	0.584	0.202	1.312	0.766	0.265		20.3	
Body	LTE Band 26	10	QPSK	1	9GLW0	1:1	-0.01	819.00	26740	0.0	20.20	18.98	25	12	Bottom	0	0.602	0.208	1.324	0.797	0.275		20.2	
Body	LTE Band 26	10	QPSK	1	9GLW0	1:1	0.02	819.00	26740	0.0	20.20	19.02	1	0	Right	0	0.044	0.020	1.312	0.058	0.026		31.6	
Body	LTE Band 26	10	QPSK	1	9GLW0	1:1	0.05	819.00	26740	0.0	20.20	18.98	25	12	Right	0	0.051	0.023	1.324	0.068	0.030		30.9	
Body	LTE Band 26	10	QPSK	1	9GLW0	1:1	-0.16	819.00	26740	0.0	20.20	19.02	1	0	Left	0	0.318	0.139	1.312	0.417	0.182		23.0	
Body	LTE Band 26	10	QPSK	1	9GLW0	1:1	0.01	819.00	26740	0.0	20.20	18.98	25	12	Left	0	0.327	0.143	1.324	0.433	0.189		22.8	
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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Document S/N: 1C2311270068-02.BCG-R1	DUT Type: Tablet Device		Technical Manager
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Table 10-20 Antenna 3

TABLE 12-10: PPMs																									
Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall PPM [dBm]	
Body	LTE Band 26	10	QPSK	3	W3T12	1:1	-0.15	819.00	26740	0.0	19.70	18.72	1	0	Back	0	0.716	0.364	1.253	0.897	0.456		19.2		
Body	LTE Band 26	10	QPSK	3	W3T12	1:1	0.02	831.50	26865	0.0	19.70	18.82	1	25	Back	0	0.700	0.348	1.225	0.888	0.426		19.3		
Body	LTE Band 26	10	QPSK	3	W3T12	1:1	-0.01	844.00	26990	0.0	19.70	18.91	1	0	Back	0	0.688	0.344	1.199	0.825	0.412		19.5		
Body	LTE Band 26	10	QPSK	3	W3T12	1:1	0.00	819.00	26740	0.0	19.70	18.82	25	25	Back	0	0.711	0.358	1.225	0.871	0.439		19.3		
Body	LTE Band 26	10	QPSK	3	W3T12	1:1	-0.02	831.50	26865	0.0	19.70	18.83	25	12	Back	0	0.711	0.355	1.222	0.889	0.434		19.3		
Body	LTE Band 26	10	QPSK	3	W3T12	1:1	-0.02	844.00	26990	0.0	19.70	18.95	25	12	Back	0	0.676	0.342	1.199	0.824	0.415		19.7		
Body	LTE Band 26	10	QPSK	3	W3T12	1:1	-0.02	844.00	26990	0.0	19.70	18.81	50	0	Back	0	0.660	0.329	1.227	0.810	0.404		19.6		
Body	LTE Band 26	10	QPSK	3	W3T12	1:1	0.17	819.00	26740	0.0	19.70	18.72	1	0	Top	0	0.743	0.261	1.253	0.931	0.327		19.0		
Body	LTE Band 26	10	QPSK	3	W3T12	1:1	0.08	831.50	26865	0.0	19.70	18.82	1	25	Top	0	0.702	0.245	1.225	0.860	0.300		19.3		
Body	LTE Band 26	10	QPSK	3	W3T12	1:1	0.14	844.00	26990	0.0	19.70	18.91	1	0	Top	0	0.682	0.238	1.199	0.818	0.285		19.6		
Body	LTE Band 26	10	QPSK	3	W3T12	1:1	0.00	819.00	26740	0.0	19.70	18.82	25	25	Top	0	0.732	0.257	1.225	0.897	0.315		19.2		
Body	LTE Band 26	10	QPSK	3	W3T12	1:1	-0.03	831.50	26865	0.0	19.70	18.83	25	12	Top	0	0.702	0.246	1.222	0.858	0.301		19.3		
Body	LTE Band 26	10	QPSK	3	W3T12	1:1	0.00	844.00	26990	0.0	19.70	18.85	25	12	Top	0	0.664	0.232	1.216	0.807	0.282		19.6		
Body	LTE Band 26	10	QPSK	3	W3T12	1:1	-0.09	844.00	26990	0.0	19.70	18.91	50	0	Top	0	0.648	0.216	1.227	0.795	0.277		19.7		
Body	LTE Band 26	10	QPSK	3	W3T12	1:1	-0.01	844.00	26990	0.0	19.70	18.91	1	0	Bottom	0	0.033	0.016	1.199	0.040	0.019		32.7		
Body	LTE Band 26	10	QPSK	3	W3T12	1:1	-0.07	844.00	26990	0.0	19.70	18.85	25	12	Bottom	0	0.036	0.017	1.216	0.044	0.021		32.3		
Body	LTE Band 26	10	QPSK	3	W3T12	1:1	0.00	844.00	26990	0.0	19.70	18.91	1	0	Right	0	0.276	0.127	1.199	0.331	0.152		23.5		
Body	LTE Band 26	10	QPSK	3	W3T12	1:1	-0.04	844.00	26990	0.0	19.70	18.85	25	12	Right	0	0.276	0.126	1.216	0.336	0.153		23.4		
Body	LTE Band 26	10	QPSK	3	W3T12	1:1	0.14	844.00	26990	0.0	19.70	18.91	1	0	Left	0	0.056	0.024	1.199	0.067	0.029		30.4		
Body	LTE Band 26	10	QPSK	3	W3T12	1:1	0.19	844.00	26990	0.0	19.70	18.85	25	12	Left	0	0.052	0.023	1.216	0.063	0.028		30.7		
ANSI/IEEE C63.18-1997 - SAFETY LIMIT																									
Spatial Peak																	Body								
Uncontrolled Exposure/General Population																	1.6 W/kg (mW/g)								
																	averaged over 1 g/m								

10.9 LTE Band 5 (Cell) Standalone SAR

Table 10-21 Antenna 1

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	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 #	PLimit [dBm]	Overall PLimit [dBm]
Body	LTE Band 5	10	QPSK	1	9GLW0	1:1	-0.00	836.50	20525	0.0	20.20	18.95	1	49	Back	0	N/A	0.604	0.226	1.334	0.806	0.301		20.1	19.8
Body	LTE Band 5	10	QPSK	1	9GLW0	1:1	0.02	836.50	20525	0.0	20.20	18.89	25	12	Back	0	N/A	0.643	0.242	1.352	0.869	0.327		19.8	
Body	LTE Band 5	10	QPSK	1	9GLW0	1:1	-0.02	836.50	20525	0.0	20.20	18.85	25	25	Back	0	N/A	0.590	0.227	1.365	0.805	0.310		20.1	
Body	LTE Band 5	10	QPSK	1	9GLW0	1:1	0.08	836.50	20525	0.0	20.20	18.88	20	49	Back	0	N/A	0.615	0.238	1.346	0.835	0.316		20.0	
Body	LTE Band 5	10	QPSK	1	9GLW0	1:1	0.08	836.50	20525	0.0	20.20	18.95	1	49	Top	0	N/A	0.028	0.013	1.364	0.037	0.017		33.1	
Body	LTE Band 5	10	QPSK	1	9GLW0	1:1	0.06	836.50	20525	0.0	20.20	18.89	25	12	Top	0	N/A	0.024	0.011	1.352	0.032	0.015		34.1	
Body	LTE Band 5	10	QPSK	1	9GLW0	1:1	0.00	836.50	20525	0.0	20.20	18.95	1	49	Bottom	0	N/A	0.513	0.179	1.354	0.684	0.239		20.8	
Body	LTE Band 5	10	QPSK	1	9GLW0	1:1	-0.02	836.50	20525	0.0	20.20	18.89	25	12	Bottom	0	N/A	0.562	0.195	1.352	0.760	0.264		20.4	
Body	LTE Band 5	10	QPSK	1	9GLW0	1:1	0.06	836.50	20525	0.0	20.20	18.95	1	49	Right	0	N/A	0.044	0.019	1.354	0.059	0.025		31.5	
Body	LTE Band 5	10	QPSK	1	9GLW0	1:1	-0.04	836.50	20525	0.0	20.20	18.89	25	12	Right	0	N/A	0.062	0.021	1.352	0.070	0.031		30.7	
Body	LTE Band 5	10	QPSK	1	9GLW0	1:1	0.01	836.50	20525	0.0	20.20	18.95	1	49	Left	0	N/A	0.356	0.154	1.334	0.475	0.205		22.4	
Body	LTE Band 5	10	QPSK	1	9GLW0	1:1	0.01	836.50	20525	0.0	20.20	18.89	25	12	Left	0	N/A	0.365	0.159	1.352	0.493	0.215		22.2	
Body	LTE Band 5	5	QPSK	1	9GLW0	1:1	-0.01	836.50	20525	0.0	20.20	18.55	25	25	Back	0	ULCA 58	0.546	0.208	1.462	0.798	0.304		20.2	
ANSI/IEEE CS3.1 1002 - SAFETY LIMIT																									
Spatial Peak																		Body							
Uncontrolled Eggmass/General Population																		1.6 W/kg (mW/g) averaged over 1 gram							

Table 10-22 Antenna 3

Table 10-22 Annex A.3																									
Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	PB Size	RB Offset	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 #	PLimit [dBm]	Overall PLimit [dBm]
Body	LTE Band 5	10	QPSK	3	W3T12	1:1	-0.14	836.50	20525	0.0	19.70	18.86	1	49	Back	0	N/A	0.658	0.333	1.230	0.798	0.404		19.7	19.2
Body	LTE Band 5	10	QPSK	3	W3T12	1:1	0.00	836.50	20525	0.0	19.70	18.80	25	12	Back	0	N/A	0.678	0.344	1.213	0.834	0.423		19.5	
Body	LTE Band 5	10	QPSK	3	W3T12	1:1	-0.03	836.50	20525	0.0	19.70	18.78	50	0	Back	0	N/A	0.669	0.339	1.236	0.827	0.419		19.4	
Body	LTE Band 5	10	QPSK	3	W3T12	1:1	0.11	836.50	20525	0.0	19.70	18.86	50	0	Top	0	N/A	0.670	0.340	1.236	0.811	0.383	A9	19.5	
Body	LTE Band 5	10	QPSK	3	W3T12	1:1	-0.03	836.50	20525	0.0	19.70	18.80	25	12	Top	0	N/A	0.695	0.243	1.230	0.855	0.299		19.5	
Body	LTE Band 5	10	QPSK	3	W3T12	1:1	0.02	836.50	20525	0.0	19.70	18.78	50	0	Top	0	N/A	0.698	0.243	1.236	0.863	0.300	A9	19.3	
Body	LTE Band 5	10	QPSK	3	W3T12	1:1	0.01	836.50	20525	0.0	19.70	18.86	1	49	Bottom	0	N/A	0.025	0.012	1.213	0.030	0.015		33.3	
Body	LTE Band 5	10	QPSK	3	W3T12	1:1	0.10	836.50	20525	0.0	19.70	18.80	25	12	Bottom	0	N/A	0.028	0.013	1.230	0.034	0.016		33.3	
Body	LTE Band 5	10	QPSK	3	W3T12	1:1	-0.09	836.50	20525	0.0	19.70	18.86	1	49	Right	0	N/A	0.261	0.122	1.213	0.317	0.148		23.7	
Body	LTE Band 5	10	QPSK	3	W3T12	1:1	0.02	836.50	20525	0.0	19.70	18.80	25	12	Right	0	N/A	0.263	0.121	1.240	0.312	0.151		23.6	
Body	LTE Band 5	10	QPSK	3	W3T12	1:1	-0.03	836.50	20525	0.0	19.70	18.86	1	49	Left	0	N/A	0.038	0.016	1.213	0.046	0.019		32.0	
Body	LTE Band 5	10	QPSK	3	W3T12	1:1	0.00	836.50	20525	0.0	19.70	18.80	25	12	Left	0	N/A	0.045	0.019	1.230	0.055	0.023		31.2	
Body	LTE Band 5	10 5	QPSK	3	W3T12	1:1	-0.03	836.50 829.30	20525 20453	0.0	19.70	18.35	50 25	0	Top	0	ULCA 5B	0.643	0.222	1.365	0.878	0.303		19.2	
ANSI/IEEE CS-1.1592 - SAFETY LIMIT															Body Spatial Peak Uncontrolled Exposure Regional Population 1.6 W/kg (mW/kg) SAR over 1 mm										

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10.10 LTE Band 66 (AWS) Standalone SAR

Table 10-23 Antenna 1

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 66	20	QPSK	1	F7951	1:1	-0.02	1720.00	132072	0.0	14.50	14.44	1	0	Back	0	0.825	0.350	1.014	0.837	0.355		14.3	
Body	LTE Band 66	20	QPSK	1	F7951	1:1	-0.01	1745.00	132322	0.0	14.50	14.10	1	0	Back	0	0.854	0.361	1.096	0.936	0.396		13.8	
Body	LTE Band 66	20	QPSK	1	F7951	1:1	0.05	1770.00	132572	0.0	14.50	14.32	1	0	Back	0	0.923	0.397	1.042	0.962	0.414		13.6	
Body	LTE Band 66	20	QPSK	1	F7951	1:1	0.01	1720.00	132072	0.0	14.50	14.44	50	0	Back	0	0.835	0.354	1.014	0.847	0.359		14.2	
Body	LTE Band 66	20	QPSK	1	F7951	1:1	0.00	1745.00	132322	0.0	14.50	14.33	50	0	Back	0	0.861	0.365	1.040	0.895	0.380		14.0	
Body	LTE Band 66	20	QPSK	1	F7951	1:1	-0.02	1770.00	132572	0.0	14.50	14.35	50	0	Back	0	0.956	0.411	1.035	0.989	0.425	A10	13.5	
Body	LTE Band 66	20	QPSK	1	F7951	1:1	0.02	1720.00	132072	0.0	14.50	14.43	100	0	Back	0	0.859	0.363	1.016	0.873	0.369		14.1	
Body	LTE Band 66	20	QPSK	1	F7951	1:1	0.07	1720.00	132072	0.0	14.50	14.44	1	0	Top	0	0.002	0.000	1.014	0.002	0.000		40.4	13.5
Body	LTE Band 66	20	QPSK	1	F7951	1:1	0.08	1720.00	132072	0.0	14.50	14.44	50	0	Top	0	0.002	0.000	1.014	0.002	0.000		40.4	
Body	LTE Band 66	20	QPSK	1	F7951	1:1	0.01	1720.00	132072	0.0	14.50	14.44	1	0	Bottom	0	0.539	0.205	1.014	0.547	0.208		16.1	
Body	LTE Band 66	20	QPSK	1	F7951	1:1	0.04	1720.00	132072	0.0	14.50	14.44	50	0	Bottom	0	0.477	0.187	1.014	0.484	0.190		16.6	
Body	LTE Band 66	20	QPSK	1	F7951	1:1	-0.13	1720.00	132072	0.0	14.50	14.44	1	0	Right	0	0.013	0.006	1.014	0.013	0.006		32.3	
Body	LTE Band 66	20	QPSK	1	F7951	1:1	0.20	1720.00	132072	0.0	14.50	14.44	50	0	Right	0	0.012	0.005	1.014	0.012	0.005		32.6	
Body	LTE Band 66	20	QPSK	1	F7951	1:1	-0.20	1720.00	132072	0.0	14.50	14.44	1	0	Left	0	0.068	0.025	1.014	0.069	0.025		25.1	
Body	LTE Band 66	20	QPSK	1	F7951	1:1	0.04	1720.00	132072	0.0	14.50	14.44	50	0	Left	0	0.073	0.026	1.014	0.074	0.026		24.8	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																Body		1.6 W/kg (mW/g)		averaged over 1 gram				
Spatial Peak																								
Uncontrolled Exposure/General Population																								

Table 10-24 Antenna 2b

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 66	20	QPSK	2b	FW1J2	1:1	0.04	1720.00	132072	0.0	13.20	12.40	1	50	Back	0	0.693	0.285	1.202	0.833	0.343		13.0	
Body	LTE Band 66	20	QPSK	2b	FW1J2	1:1	0.03	1745.00	132322	0.0	13.20	12.38	1	50	Back	0	0.780	0.317	1.208	0.942	0.383		12.4	
Body	LTE Band 66	20	QPSK	2b	FW1J2	1:1	-0.01	1770.00	132572	0.0	13.20	12.38	1	50	Back	0	0.903	0.328	1.208	0.970	0.396		12.3	
Body	LTE Band 66	20	QPSK	2b	FW1J2	1:1	0.00	1720.00	132072	0.0	13.20	12.40	50	25	Back	0	0.750	0.302	1.199	0.899	0.362		12.6	
Body	LTE Band 66	20	QPSK	2b	FW1J2	1:1	0.03	1745.00	132322	0.0	13.20	12.30	50	25	Back	0	0.900	0.317	1.230	0.972	0.390		12.3	
Body	LTE Band 66	20	QPSK	2b	FW1J2	1:1	0.03	1770.00	132572	0.0	13.20	12.38	50	50	Back	0	0.822	0.335	1.208	0.993	0.405		12.2	
Body	LTE Band 66	20	QPSK	2b	FW1J2	1:1	0.01	1720.00	132072	0.0	13.20	12.36	100	0	Back	0	0.703	0.290	1.213	0.853	0.352		12.9	
Body	LTE Band 66	20	QPSK	2b	FW1J2	1:1	0.04	1720.00	132072	0.0	13.20	12.40	1	50	Top	0	0.000	0.000	1.202	0.000	0.000		51.4	
Body	LTE Band 66	20	QPSK	2b	FW1J2	1:1	0.09	1720.00	132072	0.0	13.20	12.41	50	25	Top	0	0.000	0.000	1.199	0.000	0.000		51.4	
Body	LTE Band 66	20	QPSK	2b	FW1J2	1:1	0.00	1720.00	132072	0.0	13.20	12.40	1	50	Bottom	0	0.711	0.269	1.202	0.855	0.323		12.9	12.2
Body	LTE Band 66	20	QPSK	2b	FW1J2	1:1	0.01	1745.00	132322	0.0	13.20	12.38	1	50	Bottom	0	0.699	0.265	1.208	0.844	0.320		12.9	
Body	LTE Band 66	20	QPSK	2b	FW1J2	1:1	-0.02	1770.00	132572	0.0	13.20	12.38	1	50	Bottom	0	0.696	0.261	1.208	0.841	0.315		12.9	
Body	LTE Band 66	20	QPSK	2b	FW1J2	1:1	0.02	1720.00	132072	0.0	13.20	12.41	50	25	Bottom	0	0.731	0.276	1.199	0.876	0.331		12.8	
Body	LTE Band 66	20	QPSK	2b	FW1J2	1:1	-0.01	1745.00	132322	0.0	13.20	12.30	50	25	Bottom	0	0.721	0.273	1.230	0.887	0.336		12.7	
Body	LTE Band 66	20	QPSK	2b	FW1J2	1:1	-0.01	1770.00	132572	0.0	13.20	12.38	50	50	Bottom	0	0.707	0.265	1.208	0.854	0.320		12.9	
Body	LTE Band 66	20	QPSK	2b	FW1J2	1:1	0.01	1720.00	132072	0.0	13.20	12.36	100	0	Bottom	0	0.738	0.281	1.213	0.895	0.341		12.7	
Body	LTE Band 66	20	QPSK	2b	FW1J2	1:1	0.01	1720.00	132072	0.0	13.20	12.40	1	50	Right	0	0.039	0.017	1.202	0.047	0.020		25.5	
Body	LTE Band 66	20	QPSK	2b	FW1J2	1:1	0.05	1720.00	132072	0.0	13.20	12.41	50	25	Right	0	0.039	0.017	1.199	0.047	0.020		25.5	
Body	LTE Band 66	20	QPSK	2b	FW1J2	1:1	0.03	1720.00	132072	0.0	13.20	12.40	1	50	Left	0	0.001	0.000	1.202	0.001	0.000		41.4	
Body	LTE Band 66	20	QPSK	2b	FW1J2	1:1	0.01	1720.00	132072	0.0	13.20	12.41	50	25	Left	0	0.000	0.000	1.199	0.000	0.000		51.4	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																Body		1.6 W/kg (mW/g)						
Spatial Peak																								
Uncontrolled Exposure/General Population																								

Table 10-25 Antenna 3

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 66	20	QPSK	3	QK49K	1:1	-0.04	1720.00	132072	0.0	16.10	15.61	1	99	Back	0	0.646	0.322	1.119	0.723	0.360		16.5	
Body	LTE Band 66	20	QPSK	3	QK49K	1:1	0.00	1720.00	132072	0.0	16.10	15.65	50	25	Back	0	0.677	0.334	1.109	0.751	0.370		16.3	
Body	LTE Band 66	20	QPSK	3	QK49K	1:1	-0.02	1720.00	132072	0.0	16.10	15.61	1	99	Top	0	0.539	0.218	1.119	0.603	0.244		17.3	
Body	LTE Band 66	20	QPSK	3	QK49K	1:1	0.01	1720.00	132072	0.0	16.10	15.65	50	25	Top	0	0.532	0.218	1.109	0.590	0.242		17.4	
Body	LTE Band 66	20	QPSK	3	QK49K	1:1	0.09	1720.00	132072	0.0	16.10	15.61	1	99	Bottom	0	0.011	0.004	1.119	0.012	0.004		34.2	
Body	LTE Band 66	20	QPSK	3	QK49K	1:1	0.05	1720.00	132072	0.0	16.10	15.65	50	25	Bottom	0	0.013	0.005	1.109	0.014	0.006		33.5	
Body	LTE Band 66	20	QPSK	3	QK49K	1:1	-0.09	1720.00	132072	0.0	16.10	15.61	1	99	Right	0	0.694	0.302	1.119	0.777	0.338		16.2	
Body	LTE Band 66	20	QPSK	3	QK49K	1:1	-0.09	1745.00	132322	0.0	16.10	15.50	1	0	Right	0	0.586	0.266	1.148	0.673	0.305		16.8	15.6
Body	LTE Band 66	20	QPSK	3	QK49K	1:1	-0.05	1770.00	132572	0.0	16.10	15.26	1	50	Right	0	0.602	0.272	1.213	0.730	0.330		16.4	
Body	LTE Band 66	20	QPSK	3	QK49K	1:1	-0.05	1720.00	132072	0.0	16.10	15.65	50	25	Right	0	0.697	0.301	1.109	0.773	0.334		16.2	
Body	LTE Band 66	20	QPSK	3	QK49K	1:1	-0.02	1745.00	132322	0.0	16.10	15.52	50	25	Right	0	0.579	0.262	1.143	0.662	0.299		16.9	
Body	LTE Band 66	20	QPSK	3	QK49K	1:1	0.00	1770.00	132572	0.0	16.10	15.40	50	25	Right	0	0.763	0.329	1.175	0.897	0.387		15.6	
Body	LTE Band 66	20	QPSK	3	QK49K	1:1	0.01	1720.00	132072	0.0	16.10	15.60	100	0	Right	0	0.759	0.328	1.122	0.852	0.368		15.8	
Body	LTE Band 66	20	QPSK	3	QK49K	1:1	0.04	1720.00	132072	0.0	16.10	15.61	1	99	Left	0	0.000	0.000	1.119	0.000	0.000		54.6	
Body	LTE Band 66	20	QPSK	3	QK49K	1:1	0.01	1720.00	132072	0.0	16.10	15.65	50	25	Left	0	0.000	0.000	1.109	0.000	0.000		54.6	
Body																								
1.6 W/kg [mW/g]																								
averaged over 1 gram																								
Spatial Peak																								
Uncontrolled Exposure/General Population																								
ANSI/CES C63.19-2018 SAFETY LIMIT																								

Table 10-26 Antenna 4b

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 66	20	QPSK	4b	9445J	1:1	-0.13	1770.00	132572	0.0	12.90	12.05	1	50	Back	0	0.519	0.217	1.216	0.631	0.264		13.9	
Body	LTE Band 66	20	QPSK	4b	9445J	1:1	-0.05	1770.00	132572	0.0	12.90	12.03	50	25	Back	0	0.509	0.213	1.222	0.622	0.260		13.9	
Body	LTE Band 66	20	QPSK	4b	9445J	1:1	-0.10	1720.00	132072	0.0	12.90	11.72	1	0	Top	0	0.671	0.251	1.312	0.880	0.329		12.4	
Body	LTE Band 66	20	QPSK	4b	9445J	1:1	-0.01	1745.00	132322	0.0	12.90	11.97	1	99	Top	0	0.656	0.248	1.239	0.813	0.307		12.8	
Body	LTE Band 66	20	QPSK	4b	9445J	1:1	0.00	1770.00	132572	0.0	12.90	12.05	1	50	Top	0	0.782	0.295	1.216	0.951	0.359		12.1	
Body	LTE Band 66	20	QPSK	4b	9445J	1:1	-0.03	1720.00	132072	0.0	12.90	11.93	50	25	Top	0	0.692	0.260	1.250	0.865	0.325		12.5	
Body	LTE Band 66	20	QPSK	4b	9445J	1:1	-0.04	1745.00	132322	0.0	12.90	11.98	50	25	Top	0	0.691	0.262	1.236	0.854	0.324		12.6	
Body	LTE Band 66	20	QPSK	4b	9445J	1:1	-0.02	1770.00	132572	0.0	12.90	12.03	50	25	Top	0	0.793	0.300	1.222	0.969	0.367		12.0	11.9
Body	LTE Band 66	20	QPSK	4b	9445J	1:1	-0.02	1770.00	132572	0.0	12.90	11.99	100	0	Top	0	0.802	0.305	1.233	0.989	0.376		11.9	
Body	LTE Band 66	20	QPSK	4b	9445J	1:1	0.04	1770.00	132572	0.0	12.90	12.05	1	50	Bottom	0	0.001	0.000	1.216	0.001	0.000		41.0	
Body	LTE Band 66	20	QPSK	4b	9445J	1:1	0.09	1770.00	132572	0.0	12.90	12.03	50	25	Bottom	0	0.001	0.000	1.222	0.001	0.000		41.0	
Body	LTE Band 66	20	QPSK	4b	9445J	1:1	0.01	1770.00	132572	0.0	12.90	12.05	1	50	Right	0	0.002	0.000	1.216	0.002	0.000		38.0	
Body	LTE Band 66	20	QPSK	4b	9445J	1:1	0.08	1770.00	132572	0.0	12.90	12.03	50	25	Right	0	0.003	0.001	1.222	0.004	0.001		36.2	
Body	LTE Band 66	20	QPSK	4b	9445J	1:1	0.01	1770.00	132572	0.0	12.90	12.05	1	50	Left	0	0.022	0.010	1.216	0.027	0.012		27.6	
Body	LTE Band 66	20	QPSK	4b	9445J	1:1	0.05	1770.00	132572	0.0	12.90	12.03	50	25	Left	0	0.020	0.009	1.222	0.024	0.011		28.0	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																Body								
Spatial Peak																1.6 W/kg (mW/g)								
Uncontrolled Exposure/General Population																averaged over 1 gram								

10.11 LTE Band 25 (PCS) Standalone SAR

Table 10-27 Antenna 1

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 25	20	QPSK	1	F795J	1:1	0.01	1860.00	26140	0.0	13.60	13.13	1	50	Back	0	0.858	0.355	1.114	0.956	0.395		12.8	
Body	LTE Band 25	20	QPSK	1	F795J	1:1	-0.01	1882.50	26365	0.0	13.60	13.05	1	50	Back	0	0.851	0.352	1.135	0.966	0.400		12.7	
Body	LTE Band 25	20	QPSK	1	F795J	1:1	-0.01	1905.00	26590	0.0	13.60	13.02	1	50	Back	0	0.831	0.344	1.143	0.950	0.393		12.8	
Body	LTE Band 25	20	QPSK	1	F795J	1:1	-0.02	1860.00	26140	0.0	13.60	13.16	50	25	Back	0	0.873	0.364	1.107	0.966	0.403		12.7	
Body	LTE Band 25	20	QPSK	1	F795J	1:1	-0.05	1882.50	26365	0.0	13.60	13.14	50	25	Back	0	0.875	0.350	1.112	0.973	0.389		12.7	
Body	LTE Band 25	20	QPSK	1	F795J	1:1	0.00	1905.00	26590	0.0	13.60	13.08	50	25	Back	0	0.852	0.338	1.127	0.960	0.381		12.8	
Body	LTE Band 25	20	QPSK	1	F795J	1:1	0.01	1860.00	26140	0.0	13.60	13.12	100	0	Back	0	0.890	0.355	1.117	0.994	0.397	A11	12.6	
Body	LTE Band 25	20	QPSK	1	F795J	1:1	0.06	1860.00	26140	0.0	13.60	13.13	1	50	Top	0	0.000	0.000	1.114	0.000	0.000		52.1	12.6
Body	LTE Band 25	20	QPSK	1	F795J	1:1	0.06	1860.00	26140	0.0	13.60	13.16	50	25	Top	0	0.000	0.000	1.107	0.000	0.000		52.1	
Body	LTE Band 25	20	QPSK	1	F795J	1:1	0.00	1860.00	26140	0.0	13.60	13.13	1	50	Bottom	0	0.432	0.167	1.114	0.481	0.186		15.8	
Body	LTE Band 25	20	QPSK	1	F795J	1:1	-0.02	1860.00	26140	0.0	13.60	13.16	50	25	Bottom	0	0.436	0.170	1.107	0.483	0.188		15.7	
Body	LTE Band 25	20	QPSK	1	F795J	1:1	-0.06	1860.00	26140	0.0	13.60	13.13	1	50	Right	0	0.010	0.004	1.114	0.011	0.004		32.1	
Body	LTE Band 25	20	QPSK	1	F795J	1:1	0.12	1860.00	26140	0.0	13.60	13.16	50	25	Right	0	0.008	0.003	1.107	0.009	0.003		33.1	
Body	LTE Band 25	20	QPSK	1	F795J	1:1	-0.01	1860.00	26140	0.0	13.60	13.13	1	50	Left	0	0.448	0.152	1.114	0.499	0.169		15.6	
Body	LTE Band 25	20	QPSK	1	F795J	1:1	-0.01	1860.00	26140	0.0	13.60	13.16	50	25	Left	0	0.467	0.155	1.107	0.517	0.172		15.4	
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 10-28 Antenna 2b

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 25	20	QPSK	2b	2747V	1:1	-0.06	1860.00	26140	0.0	12.50	11.74	1	99	Back	0	0.733	0.296	1.191	0.873	0.353		12.1	
Body	LTE Band 25	20	QPSK	2b	2747V	1:1	0.04	1882.50	26365	0.0	12.50	11.75	1	99	Back	0	0.786	0.314	1.189	0.935	0.373		11.8	
Body	LTE Band 25	20	QPSK	2b	2747V	1:1	0.00	1905.00	26590	0.0	12.50	11.89	1	99	Back	0	0.787	0.312	1.151	0.906	0.359		11.9	
Body	LTE Band 25	20	QPSK	2b	2747V	1:1	-0.01	1860.00	26140	0.0	12.50	11.83	50	25	Back	0	0.756	0.306	1.167	0.882	0.357		12.0	
Body	LTE Band 25	20	QPSK	2b	2747V	1:1	-0.02	1882.50	26365	0.0	12.50	11.86	50	50	Back	0	0.790	0.314	1.159	0.916	0.364		11.9	
Body	LTE Band 25	20	QPSK	2b	2747V	1:1	0.01	1905.00	26590	0.0	12.50	11.94	50	25	Back	0	0.802	0.319	1.138	0.913	0.363		11.9	
Body	LTE Band 25	20	QPSK	2b	2747V	1:1	0.01	1905.00	26590	0.0	12.50	11.88	100	0	Back	0	0.785	0.312	1.153	0.905	0.360		11.9	
Body	LTE Band 25	20	QPSK	2b	2747V	1:1	0.08	1905.00	26590	0.0	12.50	11.89	1	99	Top	0	0.000	0.000	1.151	0.000	0.000		50.9	
Body	LTE Band 25	20	QPSK	2b	2747V	1:1	0.07	1905.00	26590	0.0	12.50	11.94	50	25	Top	0	0.000	0.000	1.138	0.000	0.000		50.9	
Body	LTE Band 25	20	QPSK	2b	2747V	1:1	-0.04	1860.00	26140	0.0	12.50	11.74	1	99	Bottom	0	0.676	0.243	1.191	0.805	0.289		12.4	
Body	LTE Band 25	20	QPSK	2b	2747V	1:1	0.07	1882.50	26365	0.0	12.50	11.75	1	99	Bottom	0	0.687	0.248	1.189	0.817	0.295		12.4	
Body	LTE Band 25	20	QPSK	2b	2747V	1:1	0.05	1905.00	26590	0.0	12.50	11.89	1	99	Bottom	0	0.705	0.253	1.151	0.811	0.291		12.4	
Body	LTE Band 25	20	QPSK	2b	2747V	1:1	0.01	1860.00	26140	0.0	12.50	11.83	50	25	Bottom	0	0.685	0.247	1.167	0.799	0.288		12.5	
Body	LTE Band 25	20	QPSK	2b	2747V	1:1	-0.02	1882.50	26365	0.0	12.50	11.86	50	50	Bottom	0	0.709	0.257	1.159	0.822	0.298		12.3	
Body	LTE Band 25	20	QPSK	2b	2747V	1:1	-0.01	1905.00	26590	0.0	12.50	11.94	50	25	Bottom	0	0.712	0.257	1.138	0.810	0.292		12.4	
Body	LTE Band 25	20	QPSK	2b	2747V	1:1	0.03	1905.00	26590	0.0	12.50	11.88	100	0	Bottom	0	0.710	0.256	1.153	0.819	0.295		12.3	
Body	LTE Band 25	20	QPSK	2b	2747V	1:1	0.07	1905.00	26590	0.0	12.50	11.89	1	99	Right	0	0.063	0.026	1.151	0.073	0.030		22.9	
Body	LTE Band 25	20	QPSK	2b	2747V	1:1	-0.03	1905.00	26590	0.0	12.50	11.94	50	25	Right	0	0.063	0.027	1.138	0.072	0.031		22.9	
Body	LTE Band 25	20	QPSK	2b	2747V	1:1	-0.07	1905.00	26590	0.0	12.50	11.89	1	99	Left	0	0.032	0.012	1.151	0.037	0.014		25.8	
Body	LTE Band 25	20	QPSK	2b	2747V	1:1	0.16	1905.00	26590	0.0	12.50	11.94	50	25	Left	0	0.035	0.013	1.138	0.040	0.015		25.5	
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 10-29 Antenna 3

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 25	20	QPSK	3	QKX03	1:1	-0.01	1882.50	26365	0.0	14.80	13.54	1	50	Back	0	0.553	0.264	1.337	0.739	0.353		15.1	
Body	LTE Band 25	20	QPSK	3	QKX03	1:1	0.00	1882.50	26365	0.0	14.80	13.58	50	25	Back	0	0.550	0.263	1.324	0.728	0.348		15.2	
Body	LTE Band 25	20	QPSK	3	QKX03	1:1	-0.04	1882.50	26365	0.0	14.80	13.54	1	50	Top	0	0.536	0.216	1.337	0.717	0.289		15.2	
Body	LTE Band 25	20	QPSK	3	QKX03	1:1	0.01	1882.50	26365	0.0	14.80	13.58	50	25	Top	0	0.539	0.217	1.324	0.714	0.287		15.2	
Body	LTE Band 25	20	QPSK	3	QKX03	1:1	0.05	1882.50	26365	0.0	14.80	13.54	1	50	Bottom	0	0.014	0.005	1.337	0.019	0.007		31.1	
Body	LTE Band 25	20	QPSK	3	QKX03	1:1	0.08	1882.50	26365	0.0	14.80	13.58	50	25	Bottom	0	0.014	0.005	1.324	0.019	0.007		31.1	
Body	LTE Band 25	20	QPSK	3	QKX03	1:1	-0.04	1860.00	26140	0.0	14.80	13.49	1	50	Right	0	0.587	0.248	1.352	0.794	0.335		14.8	
Body	LTE Band 25	20	QPSK	3	QKX03	1:1	-0.04	1882.50	26365	0.0	14.80	13.54	1	50	Right	0	0.636	0.269	1.337	0.850	0.360		14.5	
Body	LTE Band 25	20	QPSK	3	QKX03	1:1	-0.02	1905.00	26590	0.0	14.80	13.27	1	0	Right	0	0.654	0.278	1.422	0.930	0.395		14.1	
Body	LTE Band 25	20	QPSK	3	QKX03	1:1	-0.05	1860.00	26140	0.0	14.80	13.54	50	50	Right	0	0.612	0.259	1.337	0.818	0.346		14.7	
Body	LTE Band 25	20	QPSK	3	QKX03	1:1	0.00	1882.50	26365	0.0	14.80	13.58	50	25	Right	0	0.653	0.275	1.324	0.865	0.364		14.4	
Body	LTE Band 25	20	QPSK	3	QKX03	1:1	0.00	1905.00	26590	0.0	14.80	13.50	50	50	Right	0	0.687	0.291	1.349	0.927	0.393		14.1	
Body	LTE Band 25	20	QPSK	3	QKX03	1:1	-0.03	1882.50	26365	0.0	14.80	13.49	100	0	Right	0	0.646	0.272	1.352	0.873	0.368		14.4	
Body	LTE Band 25	20	QPSK	3	QKX03	1:1	-0.05	1882.50	26365	0.0	14.80	13.54	1	50	Left	0	0.000	0.000	1.337	0.000	0.000		52.5	
Body	LTE Band 25	20	QPSK	3	QKX03	1:1	0.04	1882.50	26365	0.0	14.80	13.58	50	25	Left	0	0.000	0.000	1.324	0.000	0.000		52.6	
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 10-30 Antenna 4b

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 25	20	QPSK	4b	4RG6K	1:1	-0.01	1860.00	26140	0.0	12.30	11.31	1	50	Back	0	0.527	0.220	1.256	0.662	0.276		13.1	
Body	LTE Band 25	20	QPSK	4b	4RG6K	1:1	0.00	1860.00	26140	0.0	12.30	11.35	50	50	Back	0	0.548	0.228	1.245	0.682	0.284		12.9	
Body	LTE Band 25	20	QPSK	4b	4RG6K	1:1	0.03	1860.00	26140	0.0	12.30	11.31	1	50	Top	0	0.678	0.255	1.256	0.852	0.320		12.0	
Body	LTE Band 25	20	QPSK	4b	4RG6K	1:1	0.00	1882.50	26365	0.0	12.30	11.11	1	50	Top	0	0.686	0.259	1.315	0.902	0.341		11.7	
Body	LTE Band 25	20	QPSK	4b	4RG6K	1:1	-0.02	1905.00	26590	0.0	12.30	11.13	1	50	Top	0	0.699	0.266	1.309	0.915	0.348		11.7	
Body	LTE Band 25	20	QPSK	4b	4RG6K	1:1	-0.01	1860.00	26140	0.0	12.30	11.35	50	50	Top	0	0.694	0.261	1.245	0.864	0.325		11.9	
Body	LTE Band 25	20	QPSK	4b	4RG6K	1:1	0.02	1882.50	26365	0.0	12.30	11.31	50	25	Top	0	0.703	0.265	1.256	0.883	0.333		11.8	
Body	LTE Band 25	20	QPSK	4b	4RG6K	1:1	0.00	1905.00	26590	0.0	12.30	11.24	50	25	Top	0	0.714	0.272	1.276	0.911	0.347		11.7	
Body	LTE Band 25	20	QPSK	4b	4RG6K	1:1	-0.01	1860.00	26140	0.0	12.30	11.29	100	0	Top	0	0.689	0.258	1.262	0.870	0.326		11.9	
Body	LTE Band 25	20	QPSK	4b	4RG6K	1:1	0.04	1860.00	26140	0.0	12.30	11.31	1	50	Bottom	0	0.000	0.000	1.256	0.000	0.000		50.3	
Body	LTE Band 25	20	QPSK	4b	4RG6K	1:1	0.09	1860.00	26140	0.0	12.30	11.35	50	50	Bottom	0	0.000	0.000	1.245	0.000	0.000		50.3	
Body	LTE Band 25	20	QPSK	4b	4RG6K	1:1	0.05	1860.00	26140	0.0	12.30	11.31	1	50	Right	0	0.003	0.001	1.256	0.004	0.001		35.5	
Body	LTE Band 25	20	QPSK	4b	4RG6K	1:1	0.06	1860.00	26140	0.0	12.30	11.35	50	50	Right	0	0.003	0.001	1.245	0.004	0.001		35.6	
Body	LTE Band 25	20	QPSK	4b	4RG6K	1:1	0.07	1860.00	26140	0.0	12.30	11.31	1	50	Left	0	0.037	0.017	1.256	0.046	0.021		24.6	
Body	LTE Band 25	20	QPSK	4b	4RG6K	1:1	0.11	1860.00	26140	0.0	12.30	11.35	50	50	Left	0	0.035	0.016	1.245	0.044	0.020		24.9	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																	Body							
Spatial Peak																	1.6 W/kg (mW/g)							
Uncontrolled Exposure/General Population																	averaged over 1 gram							

10.12 LTE Band 30 Standalone SAR

Table 10-31 Antenna 1

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 30	10	QPSK	1	2WJ0Q	1:1	-0.03	2310.00	27710	0.0	15.80	14.49	1	25	Back	0	0.645	0.268	1.352	0.872	0.362		15.4	
Body	LTE Band 30	10	QPSK	1	2WJ0Q	1:1	0.00	2310.00	27710	0.0	15.80	14.50	25	12	Back	0	0.616	0.266	1.349	0.831	0.359		15.6	
Body	LTE Band 30	10	QPSK	1	2WJ0Q	1:1	-0.03	2310.00	27710	0.0	15.80	14.48	50	0	Back	0	0.619	0.257	1.355	0.839	0.348		15.5	
Body	LTE Band 30	10	QPSK	1	2WJ0Q	1:1	0.05	2310.00	27710	0.0	15.80	14.49	1	25	Top	0	0.005	0.002	1.352	0.007	0.003		36.5	
Body	LTE Band 30	10	QPSK	1	2WJ0Q	1:1	0.05	2310.00	27710	0.0	15.80	14.50	25	12	Top	0	0.004	0.001	1.349	0.005	0.001		37.5	
Body	LTE Band 30	10	QPSK	1	2WJ0Q	1:1	-0.04	2310.00	27710	0.0	15.80	14.49	1	25	Bottom	0	0.674	0.260	1.352	0.911	0.352		15.2	
Body	LTE Band 30	10	QPSK	1	2WJ0Q	1:1	0.02	2310.00	27710	0.0	15.80	14.50	25	12	Bottom	0	0.734	0.285	1.349	0.990	0.384		14.8	14.8
Body	LTE Band 30	10	QPSK	1	2WJ0Q	1:1	-0.02	2310.00	27710	0.0	15.80	14.48	50	0	Bottom	0	0.701	0.274	1.355	0.950	0.371		15.0	
Body	LTE Band 30	10	QPSK	1	2WJ0Q	1:1	0.05	2310.00	27710	0.0	15.80	14.49	1	25	Right	0	0.000	0.000	1.352	0.000	0.000		53.5	
Body	LTE Band 30	10	QPSK	1	2WJ0Q	1:1	0.09	2310.00	27710	0.0	15.80	14.50	25	12	Right	0	0.000	0.000	1.349	0.000	0.000		53.5	
Body	LTE Band 30	10	QPSK	1	2WJ0Q	1:1	-0.02	2310.00	27710	0.0	15.80	14.49	1	25	Left	0	0.610	0.231	1.352	0.825	0.312		15.6	
Body	LTE Band 30	10	QPSK	1	2WJ0Q	1:1	0.00	2310.00	27710	0.0	15.80	14.50	25	12	Left	0	0.622	0.234	1.349	0.839	0.316		15.5	
Body	LTE Band 30	10	QPSK	1	2WJ0Q	1:1	0.01	2310.00	27710	0.0	15.80	14.48	50	0	Left	0	0.659	0.247	1.355	0.893	0.335		15.3	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																	Body 1.6 W/kg (mW/g) averaged over 1 gram							
Spatial Peak Uncontrolled Exposure/General Population																								

Table 10-32 Antenna 2b

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 30	10	QPSK	2b	3Q4T0	1:1	-0.02	2310.00	27710	0.0	12.50	11.26	1	25	Back	0	0.716	0.279	1.330	0.952	0.371		11.7	
Body	LTE Band 30	10	QPSK	2b	3Q4T0	1:1	0.00	2310.00	27710	0.0	12.50	11.26	25	12	Back	0	0.718	0.280	1.330	0.955	0.372		11.7	
Body	LTE Band 30	10	QPSK	2b	3Q4T0	1:1	-0.01	2310.00	27710	0.0	12.50	11.24	50	0	Back	0	0.721	0.279	1.337	0.964	0.373		11.6	
Body	LTE Band 30	10	QPSK	2b	3Q4T0	1:1	0.07	2310.00	27710	0.0	12.50	11.26	1	25	Top	0	0.000	0.000	1.330	0.000	0.000		50.2	
Body	LTE Band 30	10	QPSK	2b	3Q4T0	1:1	0.07	2310.00	27710	0.0	12.50	11.26	25	12	Top	0	0.000	0.000	1.330	0.000	0.000		50.2	
Body	LTE Band 30	10	QPSK	2b	3Q4T0	1:1	-0.03	2310.00	27710	0.0	12.50	11.26	1	25	Bottom	0	0.693	0.256	1.330	0.922	0.340		11.8	11.6
Body	LTE Band 30	10	QPSK	2b	3Q4T0	1:1	-0.01	2310.00	27710	0.0	12.50	11.26	25	12	Bottom	0	0.701	0.259	1.330	0.932	0.344		11.8	
Body	LTE Band 30	10	QPSK	2b	3Q4T0	1:1	-0.02	2310.00	27710	0.0	12.50	11.24	50	0	Bottom	0	0.703	0.259	1.337	0.940	0.346		11.8	
Body	LTE Band 30	10	QPSK	2b	3Q4T0	1:1	0.03	2310.00	27710	0.0	12.50	11.26	1	25	Right	0	0.031	0.013	1.330	0.041	0.017		25.3	
Body	LTE Band 30	10	QPSK	2b	3Q4T0	1:1	0.00	2310.00	27710	0.0	12.50	11.26	25	12	Right	0	0.032	0.014	1.330	0.043	0.019		25.2	
Body	LTE Band 30	10	QPSK	2b	3Q4T0	1:1	0.00	2310.00	27710	0.0	12.50	11.26	1	25	Left	0	0.041	0.017	1.330	0.055	0.023		24.1	
Body	LTE Band 30	10	QPSK	2b	3Q4T0	1:1	0.04	2310.00	27710	0.0	12.50	11.26	25	12	Left	0	0.042	0.017	1.330	0.056	0.023		24.0	
ANSI/IEEE C65.1 1992 - SAFETY LIMIT																	Body							
Spatial Peak																	1.6 W/kg [mW/g]							
Uncontrolled Exposure/General Population																	averaged over 1 gram							

Table 10-33 Antenna 3

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 30	10	QPSK	3	4MG2C	1:1	-0.02	2310.00	27710	0.0	13.10	12.38	1	0	Back	0	0.836	0.308	1.180	0.986	0.363		12.1	
Body	LTE Band 30	10	QPSK	3	4MG2C	1:1	0.02	2310.00	27710	0.0	13.10	12.38	25	12	Back	0	0.834	0.305	1.180	0.984	0.360		12.1	
Body	LTE Band 30	10	QPSK	3	4MG2C	1:1	-0.03	2310.00	27710	0.0	13.10	12.37	50	0	Back	0	0.839	0.308	1.183	0.993	0.364	A12	12.1	
Body	LTE Band 30	10	QPSK	3	4MG2C	1:1	-0.02	2310.00	27710	0.0	13.10	12.37	50	0	Back	0	0.777	0.267	1.183	0.914	0.340		12.5	
Body	LTE Band 30	10	QPSK	3	4MG2C	1:1	0.01	2310.00	27710	0.0	13.10	12.38	1	0	Top	0	0.499	0.188	1.180	0.589	0.222		14.4	
Body	LTE Band 30	10	QPSK	3	4MG2C	1:1	0.04	2310.00	27710	0.0	13.10	12.38	25	12	Top	0	0.501	0.189	1.180	0.591	0.223		14.4	
Body	LTE Band 30	10	QPSK	3	4MG2C	1:1	-0.07	2310.00	27710	0.0	13.10	12.38	1	0	Bottom	0	0.000	0.000	1.180	0.000	0.000		51.4	
Body	LTE Band 30	10	QPSK	3	4MG2C	1:1	0.08	2310.00	27710	0.0	13.10	12.38	25	12	Bottom	0	0.000	0.000	1.180	0.000	0.000		51.4	
Body	LTE Band 30	10	QPSK	3	4MG2C	1:1	-0.01	2310.00	27710	0.0	13.10	12.38	1	0	Right	0	0.098	0.033	1.180	0.116	0.039		21.4	
Body	LTE Band 30	10	QPSK	3	4MG2C	1:1	0.02	2310.00	27710	0.0	13.10	12.38	25	12	Right	0	0.097	0.033	1.180	0.114	0.037		21.5	
Body	LTE Band 30	10	QPSK	3	4MG2C	1:1	-0.13	2310.00	27710	0.0	13.10	12.38	1	0	Left	0	0.038	0.007	1.180	0.021	0.008		28.8	
Body	LTE Band 30	10	QPSK	3	4MG2C	1:1	-0.09	2310.00	27710	0.0	13.10	12.38	25	12	Left	0	0.019	0.008	1.180	0.022	0.009		28.6	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																	Body		1.6 W/kg (mW/g)		averaged over 1 gram			
Spatial Peak																	Body		1.6 W/kg (mW/g)		averaged over 1 gram			
Uncontrolled Exposure/General Population																	Body		1.6 W/kg (mW/g)		averaged over 1 gram			

Note: Blue entry represents variability measurement

Table 10-34 Antenna 4b

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 30	10	QPSK	4b	LQJDP	1:1	-0.01	2310.00	27710	0.0	12.00	10.76	1	25	Back	0	0.454	0.182	1.330	0.604	0.242		13.2	
Body	LTE Band 30	10	QPSK	4b	LQJDP	1:1	-0.07	2310.00	27710	0.0	12.00	10.82	25	12	Back	0	0.466	0.187	1.312	0.611	0.245		13.1	
Body	LTE Band 30	10	QPSK	4b	LQJDP	1:1	-0.04	2310.00	27710	0.0	12.00	10.76	1	25	Top	0	0.732	0.270	1.330	0.974	0.359		11.1	
Body	LTE Band 30	10	QPSK	4b	LQJDP	1:1	-0.10	2310.00	27710	0.0	12.00	10.82	25	12	Top	0	0.758	0.276	1.312	0.994	0.362		11.0	
Body	LTE Band 30	10	QPSK	4b	LQJDP	1:1	-0.01	2310.00	27710	0.0	12.00	10.73	50	0	Top	0	0.741	0.274	1.340	0.993	0.367		11.0	
Body	LTE Band 30	10	QPSK	4b	LQJDP	1:1	-0.12	2310.00	27710	0.0	12.00	10.76	1	25	Bottom	0	0.000	0.000	1.330	0.000	0.000		49.7	
Body	LTE Band 30	10	QPSK	4b	LQJDP	1:1	0.01	2310.00	27710	0.0	12.00	10.82	25	12	Bottom	0	0.000	0.000	1.312	0.000	0.000		49.8	
Body	LTE Band 30	10	QPSK	4b	LQJDP	1:1	0.09	2310.00	27710	0.0	12.00	10.76	1	25	Right	0	0.009	0.003	1.330	0.012	0.004		30.2	
Body	LTE Band 30	10	QPSK	4b	LQJDP	1:1	0.08	2310.00	27710	0.0	12.00	10.82	25	12	Right	0	0.011	0.004	1.312	0.014	0.005		29.4	
Body	LTE Band 30	10	QPSK	4b	LQJDP	1:1	0.04	2310.00	27710	0.0	12.00	10.76	1	25	Left	0	0.025	0.013	1.330	0.033	0.015		25.8	
Body	LTE Band 30	10	QPSK	4b	LQJDP	1:1	0.09	2310.00	27710	0.0	12.00	10.82	25	12	Left	0	0.025	0.011	1.312	0.033	0.014		25.8	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																	Body		1.6 W/kg (mW/g)		averaged over 1 gram			
Spatial Peak																	Body		1.6 W/kg (mW/g)		averaged over 1 gram			
Uncontrolled Exposure/General Population																	Body		1.6 W/kg (mW/g)		averaged over 1 gram			

10.13 LTE Band 7 Standalone SAR

Table 10-35 Antenna 1

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	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 #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 7	20	QPSK	1	WJYGP	1:1	-0.03	2510.00	20850	0.0	14.00	13.23	1	50	Back	0	N/A	0.796	0.257	1.194	0.950	0.307		14.2	
Body	LTE Band 7	20	QPSK	1	WJYGP	1:1	-0.05	2535.00	21100	0.0	14.00	13.29	1	50	Back	0	N/A	0.787	0.255	1.178	0.927	0.300		14.3	
Body	LTE Band 7	20	QPSK	1	WJYGP	1:1	0.04	2560.00	21350	0.0	14.00	13.05	1	0	Back	0	N/A	0.756	0.241	1.245	0.941	0.300		14.2	
Body	LTE Band 7	20	QPSK	1	WJYGP	1:1	0.00	2510.00	20850	0.0	14.00	13.30	50	25	Back	0	N/A	0.816	0.257	1.175	0.959	0.302	A13	14.1	
Body	LTE Band 7	20	QPSK	1	WJYGP	1:1	0.04	2510.00	20850	0.0	14.00	13.24	50	50	Back	0	N/A	0.811	0.254	1.191	0.966	0.303		14.1	
Body	LTE Band 7	20	QPSK	1	WJYGP	1:1	-0.04	2535.00	21100	0.0	14.00	13.34	50	25	Back	0	N/A	0.807	0.260	1.164	0.939	0.303		14.2	
Body	LTE Band 7	20	QPSK	1	WJYGP	1:1	-0.01	2560.00	21350	0.0	14.00	13.07	50	0	Back	0	N/A	0.574	0.228	1.239	0.711	0.282		15.4	
Body	LTE Band 7	20	QPSK	1	WJYGP	1:1	0.00	2535.00	21100	0.0	14.00	13.28	100	0	Back	0	N/A	0.811	0.260	1.180	0.957	0.307		14.1	
Body	LTE Band 7	20	QPSK	1	WJYGP	1:1	0.06	2535.00	21100	0.0	14.00	13.29	1	50	Top	0	N/A	0.000	0.000	1.178	0.000	0.000		53.2	
Body	LTE Band 7	20	QPSK	1	WJYGP	1:1	0.08	2535.00	21100	0.0	14.00	13.34	50	25	Top	0	N/A	0.000	0.000	1.164	0.000	0.000		53.3	
Body	LTE Band 7	20	QPSK	1	WJYGP	1:1	-0.02	2510.00	20850	0.0	14.00	13.23	1	50	Bottom	0	N/A	0.754	0.259	1.194	0.900	0.309		14.4	
Body	LTE Band 7	20	QPSK	1	WJYGP	1:1	0.02	2535.00	21100	0.0	14.00	13.29	1	50	Bottom	0	N/A	0.716	0.246	1.178	0.843	0.290		14.7	
Body	LTE Band 7	20	QPSK	1	WJYGP	1:1	-0.04	2560.00	21350	0.0	14.00	13.05	1	0	Bottom	0	N/A	0.737	0.254	1.245	0.918	0.316		14.3	
Body	LTE Band 7	20	QPSK	1	WJYGP	1:1	-0.02	2510.00	20850	0.0	14.00	13.30	50	25	Bottom	0	N/A	0.765	0.265	1.175	0.899	0.311		14.4	
Body	LTE Band 7	20	QPSK	1	WJYGP	1:1	0.01	2535.00	21100	0.0	14.00	13.34	50	25	Bottom	0	N/A	0.743	0.255	1.164	0.865	0.297		14.6	
Body	LTE Band 7	20	QPSK	1	WJYGP	1:1	-0.01	2560.00	21350	0.0	14.00	13.07	50	0	Bottom	0	N/A	0.740	0.255	1.239	0.917	0.316		14.3	
Body	LTE Band 7	20	QPSK	1	WJYGP	1:1	-0.02	2535.00	21100	0.0	14.00	13.28	100	0	Bottom	0	N/A	0.747	0.255	1.180	0.881	0.301		14.5	
Body	LTE Band 7	20	QPSK	1	WJYGP	1:1	0.05	2535.00	21100	0.0	14.00	13.29	1	50	Right	0	N/A	0.027	0.011	1.178	0.032	0.013		28.9	
Body	LTE Band 7	20	QPSK	1	WJYGP	1:1	-0.15	2535.00	21100	0.0	14.00	13.34	50	25	Right	0	N/A	0.029	0.011	1.164	0.034	0.013		28.7	
Body	LTE Band 7	20	QPSK	1	WJYGP	1:1	0.00	2535.00	21100	0.0	14.00	13.29	1	50	Left	0	N/A	0.217	0.066	1.178	0.256	0.078		19.9	
Body	LTE Band 7	20	QPSK	1	WJYGP	1:1	0.00	2535.00	21100	0.0	14.00	13.34	50	25	Left	0	N/A	0.222	0.067	1.164	0.258	0.078		19.8	
Body	LTE Band 7	20	QPSK	1	WJYGP	1:1	0.01	2510.00	20850	0.0	14.00	13.21	50	50	Back	0	ULCA 7C	0.793	0.248	1.199	0.951	0.297		14.2	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																		Body		1.6 W/kg (mW/g)					
Spatial Peak																									
Uncontrolled Exposure/General Population																				averaged over 1 gram					

Table 10-36 Antenna 2b

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	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]	Pilot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 7	20	QPSK	2b	2WJ0Q	1:1	-0.02	2535.00	21100	0.0	12.10	10.96	1	50	Back	0	N/A	0.594	0.205	1.300	0.772	0.267		12.2	
Body	LTE Band 7	20	QPSK	2b	2WJ0Q	1:1	0.03	2535.00	21100	0.0	12.10	11.02	50	25	Back	0	N/A	0.612	0.211	1.282	0.785	0.271		12.1	
Body	LTE Band 7	20	QPSK	2b	2WJ0Q	1:1	0.01	2535.00	21100	0.0	12.10	10.96	1	50	Top	0	N/A	0.000	0.000	1.300	0.000	0.000		49.9	
Body	LTE Band 7	20	QPSK	2b	2WJ0Q	1:1	0.07	2535.00	21100	0.0	12.10	11.02	50	25	Top	0	N/A	0.000	0.000	1.282	0.000	0.000		50.0	
Body	LTE Band 7	20	QPSK	2b	2WJ0Q	1:1	-0.02	2510.00	20850	0.0	12.10	10.86	1	99	Bottom	0	N/A	0.726	0.235	1.330	0.966	0.313		11.2	
Body	LTE Band 7	20	QPSK	2b	2WJ0Q	1:1	-0.01	2535.00	21100	0.0	12.10	10.96	1	50	Bottom	0	N/A	0.715	0.232	1.300	0.930	0.302		11.4	
Body	LTE Band 7	20	QPSK	2b	2WJ0Q	1:1	0.01	2560.00	21350	0.0	12.10	10.88	1	0	Bottom	0	N/A	0.712	0.235	1.324	0.943	0.311		11.3	
Body	LTE Band 7	20	QPSK	2b	2WJ0Q	1:1	-0.01	2510.00	20850	0.0	12.10	10.90	50	25	Bottom	0	N/A	0.720	0.236	1.318	0.949	0.311		11.3	
Body	LTE Band 7	20	QPSK	2b	2WJ0Q	1:1	-0.01	2535.00	21100	0.0	12.10	11.02	50	25	Bottom	0	N/A	0.726	0.238	1.282	0.931	0.305		11.4	
Body	LTE Band 7	20	QPSK	2b	2WJ0Q	1:1	-0.01	2560.00	21350	0.0	12.10	10.95	50	0	Bottom	0	N/A	0.746	0.246	1.303	0.972	0.321		11.2	
Body	LTE Band 7	20	QPSK	2b	2WJ0Q	1:1	-0.04	2535.00	21100	0.0	12.10	10.94	100	0	Bottom	0	N/A	0.722	0.238	1.306	0.943	0.311		11.3	
Body	LTE Band 7	20	QPSK	2b	2WJ0Q	1:1	0.01	2535.00	21100	0.0	12.10	10.96	1	50	Right	0	N/A	0.024	0.009	1.300	0.031	0.012		26.1	
Body	LTE Band 7	20	QPSK	2b	2WJ0Q	1:1	0.08	2535.00	21100	0.0	12.10	11.02	50	25	Right	0	N/A	0.025	0.009	1.282	0.032	0.012		26.0	
Body	LTE Band 7	20	QPSK	2b	2WJ0Q	1:1	-0.03	2535.00	21100	0.0	12.10	10.96	1	50	Left	0	N/A	0.021	0.011	1.300	0.040	0.014		25.0	
Body	LTE Band 7	20	QPSK	2b	2WJ0Q	1:1	0.04	2535.00	21100	0.0	12.10	11.02	50	25	Left	0	N/A	0.034	0.012	1.282	0.044	0.015		24.7	
Body	LTE Band 7	20	QPSK	2b	2WJ0Q	1:1	-0.01	2560.00	21350	0.0	12.10	10.72	50	0	Bottom	0	ULCA 7C	0.701	0.232	1.374	0.963	0.319		11.2	
		20						2540.20	21152				50												
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																		Body 1.6 W/kg (mW/g) averaged over 1 gram							

Table 10-37 Antenna 3

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	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]	Pilot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 7	20	QPSK	3	LQJDP	1:1	0.01	2510.00	20850	0.0	13.20	12.22	1	99	Back	0	N/A	0.524	0.172	1.253	0.657	0.216		14.0	
Body	LTE Band 7	20	QPSK	3	LQJDP	1:1	-0.02	2535.00	21100	0.0	13.20	12.35	1	50	Back	0	N/A	0.467	0.119	1.216	0.611	0.266		13.1	
Body	LTE Band 7	20	QPSK	3	LQJDP	1:1	0.05	2560.00	21350	0.0	13.20	12.34	1	50	Back	0	N/A	0.814	0.263	1.219	0.992	0.321		12.2	
Body	LTE Band 7	20	QPSK	3	LQJDP	1:1	-0.03	2560.00	21350	0.0	13.20	12.26	1	0	Back	0	N/A	0.798	0.259	1.242	0.991	0.322		12.2	
Body	LTE Band 7	20	QPSK	3	LQJDP	1:1	0.01	2510.00	20850	0.0	13.20	12.28	50	25	Back	0	N/A	0.504	0.165	1.236	0.623	0.204		14.2	
Body	LTE Band 7	20	QPSK	3	LQJDP	1:1	-0.04	2535.00	21100	0.0	13.20	12.39	50	25	Back	0	N/A	0.682	0.223	1.205	0.822	0.269		13.0	
Body	LTE Band 7	20	QPSK	3	LQJDP	1:1	-0.01	2560.00	21350	0.0	13.20	12.31	50	0	Back	0	N/A	0.782	0.254	1.227	0.960	0.312		12.4	
Body	LTE Band 7	20	QPSK	3	LQJDP	1:1	0.00	2560.00	21350	0.0	13.20	12.29	100	0	Back	0	N/A	0.774	0.252	1.233	0.954	0.311		12.4	
Body	LTE Band 7	20	QPSK	3	LQJDP	1:1	-0.02	2535.00	21100	0.0	13.20	12.35	1	50	Top	0	N/A	0.366	0.125	1.216	0.445	0.152		15.7	
Body	LTE Band 7	20	QPSK	3	LQJDP	1:1	0.04	2535.00	21100	0.0	13.20	12.39	50	25	Top	0	N/A	0.371	0.127	1.205	0.447	0.153		15.7	
Body	LTE Band 7	20	QPSK	3	LQJDP	1:1	0.07	2535.00	21100	0.0	13.20	12.35	1	50	Bottom	0	N/A	0.002	0.000	1.216	0.002	0.000		38.3	
Body	LTE Band 7	20	QPSK	3	LQJDP	1:1	0.03	2535.00	21100	0.0	13.20	12.39	50	25	Bottom	0	N/A	0.003	0.000	1.205	0.004	0.000		36.6	
Body	LTE Band 7	20	QPSK	3	LQJDP	1:1	0.00	2535.00	21100	0.0	13.20	12.35	1	50	Right	0	N/A	0.265	0.086	1.216	0.322	0.117		17.1	
Body	LTE Band 7	20	QPSK	3	LQJDP	1:1	-0.02	2535.00	21100	0.0	13.20	12.39	50	25	Right	0	N/A	0.267	0.096	1.205	0.312	0.116		17.1	
Body	LTE Band 7	20	QPSK	3	LQJDP	1:1	-0.07	2535.00	21100	0.0	13.20	12.35	1	50	Left	0	N/A	0.025	0.010	1.216	0.030	0.012		27.4	
Body	LTE Band 7	20	QPSK	3	LQJDP	1:1	-0.11	2535.00	21100	0.0	13.20	12.39	50	25	Left	0	N/A	0.030	0.011	1.205	0.036	0.013		26.6	
Body	LTE Band 7	20	QPSK	3	LQJDP	1:1	-0.01	2560.00	21350	0.0	13.20	12.20	1	0	Back	0	ULCA 7C	0.789	0.256	1.259	0.993	0.322		12.2	
		20						2540.20	21152				1	99											
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																		Body 1.6 W/kg (mW/g) averaged over 1 gram							

Table 10-38 Antenna 4b

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	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]	Pilot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 7	20	QPSK	4b	2WJ0Q	1:1	0.01	2535.00	21100	0.0	11.10	10.06	1	99	Back	0	N/A	0.357	0.133	1.271	0.454	0.169		13.5	
Body	LTE Band 7	20	QPSK	4b	2WJ0Q	1:1	0.00	2535.00	21100	0.0	11.10	10.07	50	50	Back	0	N/A	0.371	0.138	1.268	0.470	0.175		13.4	
Body	LTE Band 7	20	QPSK	4b	2WJ0Q	1:1	0.02	2510.00	20850	0.0	11.10	9.85	1	99	Top	0	N/A	0.732	0.241	1.334	0.976	0.321		10.2	
Body	LTE Band 7	20	QPSK	4b	2WJ0Q	1:1	-0.02	2535.00	21100	0.0	11.10	10.06	1	99	Top	0	N/A	0.725	0.241	1.271	0.921	0.306		10.4	
Body	LTE Band 7	20	QPSK	4b	2WJ0Q	1:1	0.04	2560.00	21350	0.0	11.10	10.01	1	99	Top	0	N/A	0.741	0.246	1.285	0.952	0.316		10.3	
Body	LTE Band 7	20	QPSK	4b	2WJ0Q	1:1	-0.04	2510.00	20850	0.0	11.10	9.95	50	50	Top	0	N/A	0.737	0.243	1.315	0.969	0.320		10.2	
Body	LTE Band 7	20	QPSK	4b	2WJ0Q	1:1	0.01	2535.00	21100	0.0	11.10	10.07	50	50	Top	0	N/A	0.745	0.247	1.268	0.942	0.313		10.3	
Body	LTE Band 7	20	QPSK	4b	2WJ0Q	1:1	0.00	2560.00	21350	0.0	11.10	10.03	50	50	Top	0	N/A	0.753	0.250	1.279	0.963	0.320		10.2	
Body	LTE Band 7	20	QPSK	4b	2WJ0Q	1:1	0.02	2535.00	21100	0.0	11.10	10.06	100	0	Top	0	N/A	0.756	0.251	1.274	0.963	0.320		10.2	
Body	LTE Band 7	20	QPSK	4b	2WJ0Q	1:1	0.01	2535.00	21100	0.0	11.10	10.06	1	99	Bottom	0	N/A	0.000	0.000	1.271	0.000	0.000		49.0	
Body	LTE Band 7	20	QPSK	4b	2WJ0Q	1:1	0.02	2535.00	21100	0.0	11.10	10.07	50	50	Bottom	0	N/A	0.000	0.000	1.268	0.000	0.000		49.1	
Body	LTE Band 7	20	QPSK	4b	2WJ0Q	1:1	0.08	2535.00	21100	0.0	11.10	10.06	1	99	Right	0	N/A	0.008	0.001	1.271	0.010	0.001		30.0	
Body	LTE Band 7	20	QPSK	4b	2WJ0Q	1:1	0.09	2535.00	21100	0.0	11.10	10.07	50	50	Right	0	N/A	0.010	0.003	1.268	0.013	0.004		29.1	
Body	LTE Band 7	20	QPSK	4b	2WJ0Q	1:1	-0.19	2535.00	21100	0.0	11.10	10.06	1	99	Left	0	N/A	0.021	0.008	1.271	0.027	0.010		25.8	
Body	LTE Band 7	20	QPSK	4b	2WJ0Q	1:1	-0.05	2535.00	21100	0.0	11.10	10.07	50	50	Left	0	N/A	0.019	0.007	1.268	0.024	0.009		26.3	
Body	LTE Band 7	20	QPSK	4b	2WJ0Q	1:1	0.01	2510.00	20850	0.0	11.10	9.72	1	99	Top	0	ULCA 7C	0.683	0.228	1.374	0.938	0.313		10.4	
ANSI/IEEE C63.1 1992 - SAFETY LIMIT												Body													
Spatial Peak												1.6 W/kg [mW/g]													
Uncontrolled Exposure/General Population												averaged over 1 gram													

10.14 LTE Band 41 Standalone SAR

Table 10-39 Antenna 1

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	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]	Pilot #	PLimit [dBm]	Overall PLimit [dBm]
Body	LTE Band 41	20	QPSK	1	4MG2C	1:1.58	0.00	2506.00	39750	0.0	16.00	14.97	1	50	Back	0	N/A	0.458	0.145	1.268	0.581	0.184		15.4	
Body	LTE Band 41	20	QPSK	1	4MG2C	1:1.58	0.04	2549.50	40185	0.0	16.00	15.06	1	50	Back	0	N/A	0.670	0.212	1.242	0.832	0.263		13.8	
Body	LTE Band 41	20	QPSK	1	4MG2C	1:1.58	-0.01	2593.00	40620	0.0	16.00	14.90	1	50	Back	0	N/A	0.535	0.166	1.288	0.689	0.214		14.6	
Body	LTE Band 41	20	QPSK	1	4MG2C	1:1.58	-0.02	2636.50	41055	0.0	16.00	14.86	1	50	Back	0	N/A	0.446	0.137	1.300	0.580	0.178		15.4	
Body	LTE Band 41	20	QPSK	1	4MG2C	1:1.58	0.03	2680.00	41490	0.0	16.00	14.80	1	99	Back	0	N/A	0.411	0.123	1.318	0.542	0.162		15.7	
Body	LTE Band 41	20	QPSK	1	4MG2C	1:1.58	0.01	2506.00	39750	0.0	16.00	15.05	50	25	Back	0	N/A	0.522	0.167	1.245	0.650	0.208		14.9	
Body	LTE Band 41	20	QPSK	1	4MG2C	1:1.58	-0.03	2549.50	40185	0.0	16.00	15.07	50	0	Back	0	N/A	0.682	0.216	1.239	0.845	0.268		13.7	
Body	LTE Band 41	20	QPSK	1	4MG2C	1:1.58	0.00	2593.00	40620	0.0	16.00	15.05	50	25	Back	0	N/A	0.541	0.168	1.245	0.674	0.209		14.7	
Body	LTE Band 41	20	QPSK	1	4MG2C	1:1.58	0.01	2636.50	41055	0.0	16.00	14.96	50	25	Back	0	N/A	0.388	0.119	1.271	0.493	0.151		16.1	
Body	LTE Band 41	20	QPSK	1	4MG2C	1:1.58	0.03	2680.00	41490	0.0	16.00	14.88	50	25	Back	0	N/A	0.367	0.112	1.294	0.475	0.145		16.2	
Body	LTE Band 41	20	QPSK	1	4MG2C	1:1.58	0.00	2549.50	40185	0.0	16.00	15.04	100	0	Back	0	N/A	0.681	0.215	1.247	0.849	0.268		13.7	
Body	LTE Band 41	20	QPSK	1	4MG2C	1:1.58	0.01	2549.50	40185	0.0	16.00	15.06	1	50	Top	0	N/A	0.000	0.000	1.242	0.000	0.000		52.1	
Body	LTE Band 41	20	QPSK	1	4MG2C	1:1.58	0.02	2549.50	40185	0.0	16.00	15.07	50	0	Top	0	N/A	0.000	0.000	1.239	0.000	0.000		52.1	
Body	LTE Band 41	20	QPSK	1	4MG2C	1:1.58	-0.05	2506.00	39750	0.0	16.00	14.97	1	50	Bottom	0	N/A	0.615	0.217	1.268	0.780	0.275		14.1	
Body	LTE Band 41	20	QPSK	1	4MG2C	1:1.58	0.06	2549.50	40185	0.0	16.00	15.06	1	50	Bottom	0	N/A	0.691	0.243	1.242	0.858	0.302		13.7	
Body	LTE Band 41	20	QPSK	1	4MG2C	1:1.58	-0.02	2593.00	40620	0.0	16.00	14.90	1	50	Bottom	0	N/A	0.683	0.234	1.288	0.880	0.301		13.6	
Body	LTE Band 41	20	QPSK	1	4MG2C	1:1.58	-0.03	2593.00	40620	0.0	16.00	14.89	1	0	Bottom	0	N/A	0.690	0.236	1.291	0.891	0.305		13.5	
Body	LTE Band 41	20	QPSK	1	4MG2C	1:2.31	-0.06	2593.00	40620	0.0	17.60	16.63	1	50	Bottom	0	N/A	0.660	0.226	1.250	0.825	0.283		13.8	
Body	LTE Band 41	20	QPSK	1	4MG2C	1:2.31	0.02	2593.00	40620	0.0	17.60	16.38	1	0	Bottom	0	N/A	0.651	0.226	1.265	0.824	0.286		13.8	
Body	LTE Band 41	20	QPSK	1	4MG2C	1:1.58	-0.11	2636.50	41055	0.0	16.00	14.86	1	50	Bottom	0	N/A	0.374	0.130	1.300	0.486	0.169		16.1	
Body	LTE Band 41	20	QPSK	1	4MG2C	1:1.58	0.00	2680.00	41490	0.0	16.00	14.80	1	99	Bottom	0	N/A	0.348	0.117	1.318	0.459	0.154		16.4	
Body	LTE Band 41	20	QPSK	1	4MG2C	1:1.58	0.03	2506.00	39750	0.0	16.00	15.05	50	25	Bottom	0	N/A	0.622	0.219	1.245	0.774	0.273		14.1	
Body	LTE Band 41	20	QPSK	1	4MG2C	1:1.58	0.00	2549.50	40185	0.0	16.00	15.07	50	0	Bottom	0	N/A	0.701	0.248	1.239	0.869	0.307		13.6	
Body	LTE Band 41	20	QPSK	1	4MG2C	1:1.58	-0.04	2593.00	40620	0.0	16.00	15.05	50	25	Bottom	0	N/A	0.699	0.239	1.245	0.870	0.298		13.6	
Body	LTE Band 41	20	QPSK	1	4MG2C	1:1.58	-0.01	2636.50	41055	0.0	16.00	14.96	50	25	Bottom	0	N/A	0.378	0.132	1.271	0.480	0.168		16.2	
Body	LTE Band 41	20	QPSK	1	4MG2C	1:1.58	-0.01	2680.00	41490	0.0	16.00	14.88	50	25	Bottom	0	N/A	0.362	0.123	1.294	0.468	0.159		16.3	
Body	LTE Band 41	20	QPSK	1	4MG2C	1:1.58	-0.01	2549.50	40185	0.0	16.00	15.04	100	0	Bottom	0	N/A	0.704	0.248	1.247	0.878	0.309		13.6	
Body	LTE Band 41	20	QPSK	1	4MG2C	1:1.58	0.01	2549.50	40185	0.0	16.00	15.06	1	50	Right	0	N/A	0.006	0.002	1.242	0.007	0.002		34.3	
Body	LTE Band 41	20	QPSK	1	4MG2C	1:1.58	0.09	2549.50	40185	0.0	16.00	15.07	50	0	Right	0	N/A	0.024	0.009	1.239	0.030	0.011		28.3	
Body	LTE Band 41	20	QPSK	1	4MG2C	1:1.58	-0.06	2549.50	40185	0.0	16.00	15.06	1	50	Left	0	N/A	0.204	0.061	1.242	0.253	0.076		19.0	
Body	LTE Band 41	20	QPSK	1	4MG2C	1:1.58	0.02	2549.50	40185	0.0	16.00	15.07	50	0	Left	0	N/A	0.214	0.064	1.239	0.265	0.079		18.8	
Body	LTE Band 41	20	QPSK	1	4MG2C	1:1.58	0.00	2593.00	40620	0.0	16.00	15.05	1	0	Bottom	0	ULCA 41C	0.698	0.241	1.245	0.869	0.300		13.6	
								2573.20	40422				1	99											
Body	LTE Band 41	20	QPSK	1	4MG2C	1:2.31	-0.04	2593.00	40620	0.0	17.60	16.63	1	0	Bottom	0	ULCA 41C	0.647	0.222	1.25	0.809	0.278		13.9	
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: Green entry represents HPUE measurement

Table 10-40 Antenna 2b

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	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]	Pilot #	PLimit [dBm]	Overall PLimit [dBm]
Body	LTE Band 41	20	QPSK	2b	2WJ0Q	1:1.58	-0.03	2506.00	39750	0.0	14.0	12.73	1	99	Back	0	N/A	0.483	0.175	1.340	0.647	0.235		12.9	
Body	LTE Band 41	20	QPSK	2b	2WJ0Q	1:1.58	-0.03	2549.50	40185	0.0	14.0	12.72	1	0	Back	0	N/A	0.530	0.178	1.343	0.685	0.239		12.6	
Body	LTE Band 41	20	QPSK	2b	2WJ0Q	1:1.58	0.03	2593.00	40620	0.0	14.0	12.81	1	0	Back	0	N/A	0.504	0.173	1.315	0.663	0.227		12.8	
Body	LTE Band 41	20	QPSK	2b	2WJ0Q	1:1.58	-0.01	2636.50	41055	0.0	14.0	12.68	1	0	Back	0	N/A	0.474	0.163	1.355	0.642	0.221		12.9	
Body	LTE Band 41	20	QPSK	2b	2WJ0Q	1:1.58	0.00	2680.00	41490	0.0	14.0	12.70	1	0	Back	0	N/A	0.424	0.149	1.349	0.572	0.201		13.4	
Body	LTE Band 41	20	QPSK	2b	2WJ0Q	1:1.58	-0.01	2506.00	39750	0.0	14.0	12.74	50	50	Back	0	N/A	0.492	0.179	1.337	0.658	0.239		12.8	
Body	LTE Band 41	20	QPSK	2b	2WJ0Q	1:1.58	-0.01	2549.50	40185	0.0	14.0	12.86	50	0	Back	0	N/A	0.517	0.181	1.300	0.672	0.235		12.7	
Body	LTE Band 41	20	QPSK	2b	2WJ0Q	1:1.58	-0.03	2593.00	40620	0.0	14.0	12.89	50	25	Back	0	N/A	0.512	0.175	1.291	0.661	0.226		12.8	
Body	LTE Band 41	20	QPSK	2b	2WJ0Q	1:1.58	-0.01	2636.50	41055	0.0	14.0	12.74	50	25	Back	0	N/A	0.479	0.163	1.337	0.640	0.218		12.9	
Body	LTE Band 41	20	QPSK	2b	2WJ0Q	1:1.58	-0.03	2680.00	41490	0.0	14.0	12.77	50	25	Back	0	N/A	0.420	0.147	1.327	0.557	0.195		13.5	
Body	LTE Band 41	20	QPSK	2b	2WJ0Q	1:1.58	0.04	2593.00	40620	0.0	14.0	12.80	100	0	Back	0	N/A	0.471	0.171	1.318	0.621	0.225		13.1	
Body	LTE Band 41	20	QPSK	2b	2WJ0Q	1:1.58	0.07	2593.00	40620	0.0	14.0	12.81	1	0	Top	0	N/A	0.000	0.000	1.315	0.000	0.000		49.8	
Body	LTE Band 41	20	QPSK	2b	2WJ0Q	1:1.58	0.02	2593.00	40620	0.0	14.0	12.89	50	25	Top	0	N/A	0.000	0.000	1.291	0.000	0.000		49.9	
Body	LTE Band 41	20	QPSK	2b	2WJ0Q	1:1.58	0.03	2506.00	39750	0.0	14.0	12.73	1	99	Bottom	0	N/A	0.573	0.193	1.340	0.768	0.259		12.1	
Body	LTE Band 41	20	QPSK	2b	9445I	1:1.58	0.01	2549.50	40185	0.0	14.0	12.72	1	0	Bottom	0	N/A	0.602	0.188	1.343	0.808	0.266		11.9	
Body	LTE Band 41	20	QPSK	2b	9445I	1:2.31	0.00	2549.50	40185	0.0	15.6	14.60	1	0	Bottom	0	N/A	0.617	0.204	1.259	0.777	0.257		12.0	
Body	LTE Band 41	20	QPSK	2b	2WJ0Q	1:1.58	0.03	2593.00	40620	0.0	14.0	12.81	1	0	Bottom	0	N/A	0.575	0.190	1.315	0.756	0.250		12.2	
Body	LTE Band 41	20	QPSK	2b	2WJ0Q	1:1.58	0.02	2636.50	41055	0.0	14.0	12.68	1	0	Bottom	0	N/A	0.569	0.185	1.355	0.771	0.251		12.1	
Body	LTE Band 41	20	QPSK	2b	2WJ0Q	1:1.58	0.03	2680.00	41490	0.0	14.0	12.70	1	0	Bottom	0	N/A	0.565	0.182	1.349	0.762	0.246		12.2	
Body	LTE Band 41	20	QPSK	2b	2WJ0Q	1:1.58	0.00	2506.00	39750	0.0	14.0	12.74	50	50	Bottom	0	N/A	0.579	0.194	1.337	0.774	0.259		12.1	
Body	LTE Band 41	20	QPSK	2b	2WJ0Q	1:1.58	-0.01	2549.50	40185	0.0	14.0	12.86	50	0	Bottom	0	N/A	0.580	0.190	1.300	0.764	0.259		12.2	
Body	LTE Band 41	20	QPSK	2b	2WJ0Q	1:1.58	0.00	2593.00	40620	0.0	14.0	12.89	50	25	Bottom	0	N/A	0.576	0.190	1.291	0.774	0.245		12.3	
Body	LTE Band 41	20	QPSK	2b	2WJ0Q	1:1.58	-0.02	2636.50	41055	0.0	14.0	12.74	50	25	Bottom	0	N/A	0.570	0.185	1.337	0.762	0.247		12.2	
Body	LTE Band 41	20	QPSK	2b	2WJ0Q	1:1.58	-0.01	2680.00	41490	0.0	14.0	12.77	50	25	Bottom	0	N/A	0.574	0.184	1.327	0.762	0.244		12.2	
Body	LTE Band 41	20	QPSK	2b	2WJ0Q	1:1.58	0.03	2593.00	40620	0.0	14.0	12.80	100	0	Bottom	0	N/A	0.576	0.190	1.318	0.759	0.250		12.2	
Body	LTE Band 41	20	QPSK	2b	2WJ0Q	1:1.58	0.09	2593.00	40620	0.0	14.0	12.81	1	0	Right	0	N/A	0.037	0.014	1.315	0.049	0.018		24.1	
Body	LTE Band 41	20	QPSK	2b	2WJ0Q	1:1.58	0.09	2593.00	40620	0.0	14.0	12.89	50	25	Right	0	N/A	0.037	0.014	1.291	0.049	0.018		24.2	
Body	LTE Band 41	20	QPSK	2b	2WJ0Q	1:1.58	0.04	2593.00	40620	0.0	14.0	12.81	1	0	Left	0	N/A	0.011	0.003	1.315	0.014	0.004		29.4	
Body	LTE Band 41	20	QPSK	2b	2WJ0Q	1:1.58	-0.19	2593.00	40620	0.0	14.0	12.89	50	25	Left	0	N/A	0.012	0.005	1.291	0.015	0.006		29.1	
Body	LTE Band 41	20																							
	LTE Band 41	20	QPSK	2b	9445I	1:1.58	0.00	2549.50	40185	0.0	14.0	12.83	1	0	Bottom	0	ULCA 41C	0.624	0.207	1.309	0.837	0.271		11.9	
	LTE Band 41	20	QPSK	2b	9445I	1:2.31	-0.01	2549.50	40185	0.0	15.6	14.74	1	0	Bottom	0	ULCA 41C	0.630	0.207	1.219	0.768	0.252		12.1	
ANSI/CES C39.1 1992 - SAFETY LIMIT																								Body	
Spatial Peak																								1.6 W/kg (mW/g)	
Uncontrolled Exposure/General Population																								averaged over 1 gram	

Table 10-41 Antenna 3

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	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]	Pilot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 41	20	QPSK	3	WJYGP	1:1.58	-0.02	2506.00	39750	0.0	13.90	13.56	1	50	Back	0	N/A	0.507	0.166	1.081	0.548	0.179		13.5	
Body	LTE Band 41	20	QPSK	3	WJYGP	1:1.58	-0.07	2549.50	40185	0.0	13.90	13.70	1	50	Back	0	N/A	0.679	0.220	1.047	0.711	0.230		12.4	
Body	LTE Band 41	20	QPSK	3	WJYGP	1:1.58	0.01	2593.00	40620	0.0	13.90	13.63	1	99	Back	0	N/A	0.880	0.279	1.064	0.936	0.297		11.2	
Body	LTE Band 41	20	QPSK	3	WJYGP	1:2.31	-0.07	2593.00	40620	0.0	15.50	15.21	1	99	Back	0	N/A	0.838	0.266	1.069	0.896	0.284		11.3	
Body	LTE Band 41	20	QPSK	3	WJYGP	1:1.58	-0.02	2636.50	41055	0.0	13.90	13.55	1	99	Back	0	N/A	0.846	0.275	1.084	0.917	0.298		11.3	
Body	LTE Band 41	20	QPSK	3	WJYGP	1:1.58	0.02	2680.00	41490	0.0	13.90	13.53	1	50	Back	0	N/A	0.450	0.139	1.089	0.490	0.151		14.0	
Body	LTE Band 41	20	QPSK	3	WJYGP	1:1.58	0.02	2506.00	39750	0.0	13.90	13.67	50	25	Back	0	N/A	0.528	0.173	1.054	0.557	0.182		13.4	
Body	LTE Band 41	20	QPSK	3	WJYGP	1:1.58	0.04	2549.50	40185	0.0	13.90	13.71	50	0	Back	0	N/A	0.687	0.222	1.045	0.718	0.232		12.3	
Body	LTE Band 41	20	QPSK	3	WJYGP	1:1.58	0.00	2593.00	40620	0.0	13.90	13.67	50	25	Back	0	N/A	0.879	0.280	1.054	0.926	0.295		11.2	
Body	LTE Band 41	20	QPSK	3	WJYGP	1:1.58	-0.01	2636.50	41055	0.0	13.90	13.62	50	25	Back	0	N/A	0.394	0.124	1.067	0.420	0.132		14.7	
Body	LTE Band 41	20	QPSK	3	WJYGP	1:1.58	0.01	2680.00	41490	0.0	13.90	13.65	50	25	Back	0	N/A	0.453	0.141	1.059	0.480	0.149		14.1	
Body	LTE Band 41	20	QPSK	3	WJYGP	1:1.58	0.05	2549.50	40185	0.0	13.90	13.62	100	0	Back	0	N/A	0.733	0.238	1.067	0.782	0.254		12.0	
Body	LTE Band 41	20	QPSK	3	WJYGP	1:1.58	-0.05	2549.50	40185	0.0	13.90	13.70	1	50	Top	0	N/A	0.349	0.117	1.047	0.365	0.122		15.3	
Body	LTE Band 41	20	QPSK	3	WJYGP	1:1.58	0.04	2549.50	40185	0.0	13.90	13.71	50	0	Top	0	N/A	0.359	0.121	1.045	0.375	0.126		15.2	
Body	LTE Band 41	20	QPSK	3	WJYGP	1:1.58	0.09	2549.50	40185	0.0	13.90	13.70	1	50	Bottom	0	N/A	0.006	0.003	1.047	0.006	0.003		32.9	
Body	LTE Band 41	20	QPSK	3	WJYGP	1:1.58	0.04	2549.50	40185	0.0	13.90	13.71	50	0	Bottom	0	N/A	0.007	0.002	1.045	0.007	0.002		32.3	
Body	LTE Band 41	20	QPSK	3	WJYGP	1:1.58	-0.01	2549.50	40185	0.0	13.90	13.70	1	50	Right	0	N/A	0.260	0.091	1.047	0.272	0.095		16.5	
Body	LTE Band 41	20	QPSK	3	WJYGP	1:1.58	0.00	2549.50	40185	0.0	13.90	13.71	50	0	Right	0	N/A	0.276	0.097	1.045	0.288	0.101		16.3	
Body	LTE Band 41	20	QPSK	3	WJYGP	1:1.58	-0.15	2549.50	40185	0.0	13.90	13.70	1	50	Left	0	N/A	0.035	0.011	1.047	0.037	0.014		25.3	
Body	LTE Band 41	20	QPSK	3	WJYGP	1:1.58	0.04	2549.50	40185	0.0	13.90	13.71	50	0	Left	0	N/A	0.034	0.013	1.045	0.036	0.014		25.4	
Body	LTE Band 41	20						2593.00	40620				1	99											
Body	LTE Band 41	20	QPSK	3	WJYGP	1:1.58	-0.03	2612.80	40818	0.0	13.90	13.60	1	0	Back	0	ULCA 41C	0.906	0.289	1.072	0.917	0.310	A14	11.0	
Body	LTE Band 41	20						2593.00	40620				1	99											
Body	LTE Band 41	20	QPSK	3	WJYGP	1:2.31	-0.02	2593.00	40620	0.0	15.50	15.15	1	99	Back	0	ULCA 41C	0.853	0.272	1.084	0.925	0.295		11.2	
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: Green entry represents HPLC measurement

Table 10-42 Antenna 4b

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	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]	Pilot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 41	20	QPSK	4b	9445J	1:1.58	0.07	2593.00	40620	0.0	12.90	11.84	1	50	Back	0	N/A	0.378	0.138	1.276	0.482	0.176		13.1	
Body	LTE Band 41	20	QPSK	4b	9445J	1:1.58	0.01	2593.00	40620	0.0	12.90	11.95	50	0	Back	0	N/A	0.371	0.135	1.245	0.462	0.168		13.3	
Body	LTE Band 41	20	QPSK	4b	9445J	1:1.58	0.02	2506.00	39750	0.0	12.90	11.72	1	50	Top	0	N/A	0.634	0.210	1.312	0.832	0.276		10.7	
Body	LTE Band 41	20	QPSK	4b	9445J	1:1.58	0.03	2549.50	40185	0.0	12.90	11.82	1	50	Top	0	N/A	0.676	0.226	1.282	0.867	0.290		10.5	
Body	LTE Band 41	20	QPSK	4b	9445J	1:1.58	0.01	2593.00	40620	0.0	12.90	11.84	1	50	Top	0	N/A	0.749	0.249	1.276	0.956	0.318		10.1	
Body	LTE Band 41	20	QPSK	4b	9445J	1:1.58	0.05	2636.50	41055	0.0	12.90	11.58	1	99	Top	0	N/A	0.718	0.237	1.355	0.973	0.321		10.0	
Body	LTE Band 41	20	QPSK	4b	9445J	1:1.58	0.02	2680.00	41490	0.0	12.90	11.71	1	99	Top	0	N/A	0.755	0.250	1.315	0.993	0.329		9.9	
Body	LTE Band 41	20	QPSK	4b	9445J	1:1.58	-0.05	2680.00	41490	0.0	12.90	11.59	1	0	Top	0	N/A	0.733	0.241	1.352	0.991	0.326		9.9	
Body	LTE Band 41	20	QPSK	4b	9445J	1:2.31	-0.04	2680.00	41490	0.0	14.50	13.51	1	99	Top	0	N/A	0.723	0.240	1.256	0.908	0.301		10.3	
Body	LTE Band 41	20	QPSK	4b	9445J	1:2.31	0.00	2680.00	41490	0.0	14.50	13.41	1	0	Top	0	N/A	0.712	0.234	1.285	0.915	0.301		10.2	
Body	LTE Band 41	20	QPSK	4b	9445J	1:1.58	0.01	2506.00	39750	0.0	12.90	11.81	50	0	Top	0	N/A	0.646	0.214	1.285	0.830	0.275		10.7	
Body	LTE Band 41	20	QPSK	4b	9445J	1:1.58	0.00	2549.50	40185	0.0	12.90	11.85	50	0	Top	0	N/A	0.681	0.228	1.274	0.868	0.290		10.5	
Body	LTE Band 41	20	QPSK	4b	9445J	1:1.58	-0.01	2593.00	40620	0.0	12.90	11.95	50	0	Top	0	N/A	0.750	0.248	1.245	0.934	0.309		10.2	
Body	LTE Band 41	20	QPSK	4b	9445J	1:1.58	-0.01	2636.50	41055	0.0	12.90	11.66	50	25	Top	0	N/A	0.737	0.246	1.330	0.980	0.327		10.0	
Body	LTE Band 41	20	QPSK	4b	9445J	1:1.58	-0.02	2680.00	41490	0.0	12.90	11.75	50	25	Top	0	N/A	0.759	0.250	1.303	0.989	0.326		9.9	
Body	LTE Band 41	20	QPSK	4b	9445J	1:1.58	0.00	2593.00	40620	0.0	12.90	11.85	100	0	Top	0	N/A	0.744	0.246	1.279	0.952	0.315		10.1	
Body	LTE Band 41	20	QPSK	4b	9445J	1:1.58	0.07	2593.00	40620	0.0	12.90	11.84	1	50	Bottom	0	N/A	0.000	0.000	1.276	0.000	0.000		48.8	
Body	LTE Band 41	20	QPSK	4b	9445J	1:1.58	0.08	2593.00	40620	0.0	12.90	11.95	50	0	Bottom	0	N/A	0.000	0.000	1.245	0.000	0.000		48.9	
Body	LTE Band 41	20	QPSK	4b	9445J	1:1.58	0.06	2593.00	40620	0.0	12.90	11.84	1	50	Right	0	N/A	0.010	0.003	1.276	0.013	0.004		28.8	
Body	LTE Band 41	20	QPSK	4b	9445J	1:1.58	0.06	2593.00	40620	0.0	12.90	11.95	50	0	Right	0	N/A	0.010	0.003	1.245	0.012	0.004		28.9	
Body	LTE Band 41	20	QPSK	4b	9445J	1:1.58	0.00	2593.00	40620	0.0	12.90	11.84	1	50	Left	0	N/A	0.034	0.011	1.276	0.043	0.014		23.5	
Body	LTE Band 41	20	QPSK	4b	9445J	1:1.58	0.03	2593.00	40620	0.0	12.90	11.95	50	0	Left	0	N/A	0.035	0.011	1.245	0.044	0.014		23.5	
Body	LTE Band 41	20	QPSK	4b	9445J	1:1.58	0.01	2680.00	41490	0.0	12.90	11.55	1	0	Top	0	ULCA 41C	0.721	0.236	1.365	0.984	0.322		10.0	
Body	LTE Band 41	20	QPSK	4b	9445J	1:2.31	0.00	2680.00	41490	0.0	14.50	13.33	1	0	Top	0	ULCA 41C	0.712	0.233	1.309	0.932	0.305		10.2	
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: Green entry represents HPLC measurement

10.15 LTE Band 48 Standalone SAR

Table 10-43 Antenna 1

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	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]	Pilot #	Plimit [dBm]	Overall Plimit [dBm]	
Body	LTE Band 48	20	QPSK	1	WJYGP	1:1.58	-0.03	3560.00	55340	0.0	14.00	12.99	1	50	Back	0	N/A	0.694	0.220	1.262	0.876	0.278		12.5		
Body	LTE Band 48	20	QPSK	1	WJYGP	1:1.58	0.00	3603.30	55773	0.0	14.00	12.95	1	50	Back	0	N/A	0.650	0.200	1.274	0.828	0.255		12.8		
Body	LTE Band 48	20	QPSK	1	WJYGP	1:1.58	-0.07	3646.70	56207	0.0	14.00	13.04	1	50	Back	0	N/A	0.484	0.151	1.247	0.604	0.188		14.2		
Body	LTE Band 48	20	QPSK	1	WJYGP	1:1.58	-0.01	3690.00	56640	0.0	14.00	13.08	1	50	Back	0	N/A	0.508	0.160	1.236	0.628	0.198		14.0		
Body	LTE Band 48	20	QPSK	1	WJYGP	1:1.58	-0.02	3656.00	55340	0.0	14.00	13.06	50	25	Back	0	N/A	0.707	0.223	1.242	0.878	0.277		12.5		
Body	LTE Band 48	20	QPSK	1	WJYGP	1:1.58	-0.11	3690.00	55340	0.0	14.00	13.05	50	50	Back	0	N/A	0.694	0.206	1.245	0.864	0.269		12.6		
Body	LTE Band 48	20	QPSK	1	WJYGP	1:1.58	-0.03	3603.30	55773	0.0	14.00	13.07	50	25	Back	0	N/A	0.669	0.205	1.239	0.829	0.255		12.8		
Body	LTE Band 48	20	QPSK	1	WJYGP	1:1.58	-0.03	3646.70	56207	0.0	14.00	13.09	50	50	Back	0	N/A	0.502	0.159	1.233	0.619	0.196		14.0		
Body	LTE Band 48	20	QPSK	1	WJYGP	1:1.58	0.00	3690.00	56640	0.0	14.00	13.12	50	25	Back	0	N/A	0.500	0.158	1.225	0.613	0.194		14.1		
Body	LTE Band 48	20	QPSK	1	WJYGP	1:1.58	-0.01	3690.00	56640	0.0	14.00	13.05	100	0	Back	0	N/A	0.500	0.157	1.245	0.623	0.195		14.0		
Body	LTE Band 48	20	QPSK	1	WJYGP	1:1.58	0.01	3690.00	56640	0.0	14.00	13.08	1	50	Top	0	N/A	0.002	0.000	1.236	0.002	0.000		38.0		
Body	LTE Band 48	20	QPSK	1	WJYGP	1:1.58	-0.07	3690.00	56640	0.0	14.00	13.12	50	25	Top	0	N/A	0.002	0.000	1.236	0.002	0.000		38.0		
Body	LTE Band 48	20	QPSK	1	WJYGP	1:1.58	-0.11	3690.00	56640	0.0	14.00	13.08	1	50	Bottom	0	N/A	0.348	0.097	1.236	0.430	0.120		15.6		
Body	LTE Band 48	20	QPSK	1	WJYGP	1:1.58	-0.19	3690.00	56640	0.0	14.00	13.12	50	25	Bottom	0	N/A	0.351	0.096	1.225	0.430	0.118		15.6		
Body	LTE Band 48	20	QPSK	1	WJYGP	1:1.58	0.09	3690.00	56640	0.0	14.00	13.08	1	50	Right	0	N/A	0.014	0.004	1.236	0.017	0.005		29.6		
Body	LTE Band 48	20	QPSK	1	WJYGP	1:1.58	0.01	3690.00	56640	0.0	14.00	13.12	50	25	Right	0	N/A	0.014	0.004	1.225	0.017	0.005		29.6		
Body	LTE Band 48	20	QPSK	1	WJYGP	1:1.58	0.00	3690.00	56640	0.0	14.00	13.08	1	50	Left	0	N/A	0.211	0.059	1.236	0.261	0.073		17.8		
Body	LTE Band 48	20	QPSK	1	WJYGP	1:1.58	0.04	3690.00	56640	0.0	14.00	13.12	50	25	Left	0	N/A	0.214	0.060	1.225	0.262	0.074		17.8		
Body	LTE Band 48	20	QPSK	1	WJYGP	1:1.58	-0.08	3560.00	55340	0.0	14.00	13.27	50	50	Back	0	ULCA 48C	0.740	0.228	1.183	0.875	0.270		12.5		
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 10-44 Antenna 2b

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	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]	Pilot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 48	20	QPSK	2b	HGM6C	1:1.58	0.00	3560.00	55340	0.0	14.10	13.16	1	50	Back	0	N/A	0.550	0.163	1.242	0.683	0.202		12.8	
Body	LTE Band 48	20	QPSK	2b	HGM6C	1:1.58	0.04	3603.30	55773	0.0	14.10	13.17	1	50	Back	0	N/A	0.490	0.145	1.239	0.607	0.180		13.3	
Body	LTE Band 48	20	QPSK	2b	HGM6C	1:1.58	0.02	3646.70	56207	0.0	14.10	13.20	1	50	Back	0	N/A	0.487	0.145	1.230	0.599	0.178		13.3	
Body	LTE Band 48	20	QPSK	2b	HGM6C	1:1.58	0.06	3690.00	56640	0.0	14.10	13.27	50	25	Back	0	N/A	0.516	0.156	1.211	0.625	0.189		13.1	
Body	LTE Band 48	20	QPSK	2b	HGM6C	1:1.58	0.06	3560.00	55340	0.0	14.10	13.29	50	25	Back	0	N/A	0.557	0.165	1.205	0.671	0.199		12.8	
Body	LTE Band 48	20	QPSK	2b	HGM6C	1:1.58	0.01	3603.30	55773	0.0	14.10	13.27	50	25	Back	0	N/A	0.496	0.147	1.211	0.601	0.178		13.3	
Body	LTE Band 48	20	QPSK	2b	HGM6C	1:1.58	0.04	3646.70	56207	0.0	14.10	13.24	50	25	Back	0	N/A	0.493	0.147	1.219	0.601	0.179		13.3	
Body	LTE Band 48	20	QPSK	2b	HGM6C	1:1.58	0.06	3690.00	56640	0.0	14.10	13.30	50	25	Back	0	N/A	0.516	0.156	1.202	0.620	0.188		13.2	
Body	LTE Band 48	20	QPSK	2b	HGM6C	1:1.58	0.02	3646.70	56207	0.0	14.10	13.22	100	0	Back	0	N/A	0.490	0.147	1.225	0.600	0.180		13.3	
Body	LTE Band 48	20	QPSK	2b	HGM6C	1:1.58	0.03	3690.00	56640	0.0	14.10	13.27	1	50	Top	0	N/A	0.000	0.000	1.211	0.000	0.000		50.3	
Body	LTE Band 48	20	QPSK	2b	HGM6C	1:1.58	0.00	3690.00	56640	0.0	14.10	13.30	50	25	Top	0	N/A	0.003	0.000	1.202	0.004	0.000		35.5	
Body	LTE Band 48	20	QPSK	2b	HGM6C	1:1.58	0.00	3560.00	55340	0.0	14.10	13.16	1	50	Bottom	0	N/A	0.791	0.227	1.242	0.982	0.282		11.2	
Body	LTE Band 48	20	QPSK	2b	HGM6C	1:1.58	0.01	3603.30	55773	0.0	14.10	13.17	1	50	Bottom	0	N/A	0.723	0.208	1.239	0.896	0.258		11.6	
Body	LTE Band 48	20	QPSK	2b	HGM6C	1:1.58	-0.03	3646.70	56207	0.0	14.10	13.20	1	50	Bottom	0	N/A	0.704	0.202	1.230	0.865	0.248		11.7	
Body	LTE Band 48	20	QPSK	2b	HGM6C	1:1.58	0.01	3690.00	56640	0.0	14.10	13.27	1	50	Bottom	0	N/A	0.702	0.203	1.211	0.850	0.246		11.8	
Body	LTE Band 48	20	QPSK	2b	HGM6C	1:1.58	-0.10	3560.00	55340	0.0	14.10	13.29	50	25	Bottom	0	N/A	0.821	0.236	1.205	0.980	0.284	A15	11.1	
Body	LTE Band 48	20	QPSK	2b	HGM6C	1:1.58	-0.06	3560.00	55340	0.0	14.10	13.21	50	50	Bottom	0	N/A	0.805	0.231	1.227	0.988	0.283		11.1	
Body	LTE Band 48	20	QPSK	2b	HGM6C	1:1.58	0.00	3603.30	55773	0.0	14.10	13.27	50	25	Bottom	0	N/A	0.724	0.208	1.211	0.877	0.252		11.7	
Body	LTE Band 48	20	QPSK	2b	HGM6C	1:1.58	-0.10	3646.70	56207	0.0	14.10	13.24	50	25	Bottom	0	N/A	0.703	0.200	1.219	0.857	0.244		11.8	
Body	LTE Band 48	20	QPSK	2b	HGM6C	1:1.58	0.00	3690.00	56640	0.0	14.10	13.30	50	25	Bottom	0	N/A	0.723	0.209	1.202	0.899	0.251		11.7	
Body	LTE Band 48	20	QPSK	2b	HGM6C	1:1.58	-0.03	3646.70	56207	0.0	14.10	13.22	100	0	Bottom	0	N/A	0.710	0.205	1.225	0.870	0.251		11.7	
Body	LTE Band 48	20	QPSK	2b	HGM6C	1:1.58	0.04	3690.00	56640	0.0	14.10	13.27	1	50	Right	0	N/A	0.022	0.005	1.211	0.027	0.006		26.8	
Body	LTE Band 48	20	QPSK	2b	HGM6C	1:1.58	-0.03	3690.00	56640	0.0	14.10	13.30	50	25	Right	0	N/A	0.022	0.005	1.202	0.026	0.006		26.9	
Body	LTE Band 48	20	QPSK	2b	HGM6C	1:1.58	0.07	3690.00	56640	0.0	14.10	13.27	1	50	Left	0	N/A	0.001	0.000	1.211	0.001	0.000		40.3	
Body	LTE Band 48	20	QPSK	2b	HGM6C	1:1.58	0.01	3690.00	56640	0.0	14.10	13.30	50	25	Left	0	N/A	0.004	0.001	1.202	0.005	0.001		34.3	
Body	LTE Band 48	20	QPSK	2b	HGM6C	1:1.58	-0.07	3560.00	55340	0.0	14.10	13.45	50	50	Bottom	0	ULCA 48C	0.817	0.233	1.161	0.949	0.271		11.3	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																		Body 1.6 W/kg (mW/g) averaged over 1 gram							

Table 10-45 Antenna 3

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	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]	Pilot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 48	20	QPSK	3	W3T12	1:1.58	0.00	3560.00	55340	0.0	14.00	13.44	1	0	Back	0	N/A	0.812	0.203	1.138	0.924	0.231		11.3	
Body	LTE Band 48	20	QPSK	3	W3T12	1:1.58	-0.05	3560.00	55340	0.0	14.00	13.43	1	99	Back	0	N/A	0.767	0.194	1.140	0.874	0.221		11.6	
Body	LTE Band 48	20	QPSK	3	W3T12	1:1.58	0.02	3603.30	55773	0.0	14.00	13.45	1	50	Back	0	N/A	0.766	0.195	1.135	0.869	0.221		11.6	
Body	LTE Band 48	20	QPSK	3	W3T12	1:1.58	-0.01	3646.70	56207	0.0	14.00	13.61	1	50	Back	0	N/A	0.814	0.207	1.094	0.891	0.226		11.5	
Body	LTE Band 48	20	QPSK	3	W3T12	1:1.58	-0.01	3690.00	56640	0.0	14.00	13.65	1	50	Back	0	N/A	0.818	0.208	1.084	0.887	0.225		11.5	
Body	LTE Band 48	20	QPSK	3	W3T12	1:1.58	0.01	3560.00	55340	0.0	14.00	13.51	50	25	Back	0	N/A	0.679	0.176	1.119	0.780	0.197		12.2	
Body	LTE Band 48	20	QPSK	3	W3T12	1:1.58	0.00	3603.30	55773	0.0	14.00	13.59	50	25	Back	0	N/A	0.715	0.184	1.099	0.786	0.202		12.0	
Body	LTE Band 48	20	QPSK	3	W3T12	1:1.58	-0.03	3646.70	56207	0.0	14.00	13.71	50	25	Back	0	N/A	0.733	0.189	1.069	0.784	0.202		12.1	
Body	LTE Band 48	20	QPSK	3	W3T12	1:1.58	0.00	3690.00	56640	0.0	14.00	13.72	50	25	Back	0	N/A	0.618	0.190	1.067	0.659	0.203		12.8	
Body	LTE Band 48	20	QPSK	3	W3T12	1:1.58	0.01	3690.00	56640	0.0	14.00	13.64	100	0	Back	0	N/A	0.764	0.197	1.086	0.830	0.214		11.8	
Body	LTE Band 48	20	QPSK	3	W3T12	1:1.58	0.00	3560.00	55340	0.0	14.00	13.44	1	0	Top	0	N/A	0.791	0.214	1.138	0.900	0.244		11.5	
Body	LTE Band 48	20	QPSK	3	W3T12	1:1.58	0.02	3603.30	55773	0.0	14.00	13.45	1	50	Top	0	N/A	0.751	0.195	1.135	0.880	0.221		11.8	
Body	LTE Band 48	20	QPSK	3	W3T12	1:1.58	-0.03	3646.70	56207	0.0	14.00	13.61	1	50	Top	0	N/A	0.730	0.193	1.094	0.799	0.211		12.0	
Body	LTE Band 48	20	QPSK	3	W3T12	1:1.58	0.03	3690.00	56640	0.0	14.00	13.65	1	50	Top	0	N/A	0.746	0.196	1.084	0.809	0.212		11.9	
Body	LTE Band 48	20	QPSK	3	W3T12	1:1.58	0.02	3560.00	55340	0.0	14.00	13.51	50	25	Top	0	N/A	0.796	0.216	1.119	0.891	0.242		11.5	
Body	LTE Band 48	20	QPSK	3	W3T12	1:1.58	0.01	3603.30	55773	0.0	14.00	13.59	50	25	Top	0	N/A	0.758	0.202	1.099	0.833	0.222		11.8	
Body	LTE Band 48	20	QPSK	3	W3T12	1:1.58	0.01	3646.70	56207	0.0	14.00	13.71	50	25	Top	0	N/A	0.751	0.198	1.069	0.803	0.212		12.0	
Body	LTE Band 48	20	QPSK	3	W3T12	1:1.58	-0.01	3690.00	56640	0.0	14.00	13.72	50	25	Top	0	N/A	0.748	0.197	1.067	0.798	0.210		12.0	
Body	LTE Band 48	20	QPSK	3	W3T12	1:1.58	0.03	3690.00	56640	0.0	14.00	13.64	100	0	Top	0	N/A	0.717	0.187	1.086	0.779	0.203		12.1	
Body	LTE Band 48	20	QPSK	3	W3T12	1:1.58	0.01	3690.00	56640	0.0	14.00	13.65	1	50	Bottom	0	N/A	0.004	0.001	1.084	0.004	0.001		34.6	
Body	LTE Band 48	20	QPSK	3	W3T12	1:1.58	0.02	3690.00	56640	0.0	14.00	13.72	50	25	Bottom	0	N/A	0.003	0.000	1.067	0.003	0.000		35.9	
Body	LTE Band 48	20	QPSK	3	W3T12	1:1.58	0.01	3560.00	55340	0.0	14.00	13.44	1	0	Right	0	N/A	0.705	0.212	1.138	0.802	0.241		12.0	
Body	LTE Band 48	20	QPSK	3	W3T12	1:1.58	-0.05	3603.30	55773	0.0	14.00	13.45	1	50	Right	0	N/A	0.632	0.189	1.135	0.717	0.215		12.4	
Body	LTE Band 48	20	QPSK	3	W3T12	1:1.58	-0.05	3646.70	56207	0.0	14.00	13.61	1	50	Right	0	N/A	0.622	0.185	1.094	0.680	0.202		12.7	
Body	LTE Band 48	20	QPSK	3	W3T12	1:1.58	0.02	3690.00	56640	0.0	14.00	13.65	1	50	Right	0	N/A	0.586	0.173	1.084	0.635	0.188		13.0	
Body	LTE Band 48	20	QPSK	3	W3T12	1:1.58	0.00	3560.00	55340	0.0	14.00	13.51	50	25	Right	0	N/A	0.712	0.214	1.119	0.797	0.239		12.0	
Body	LTE Band 48	20	QPSK	3	W3T12	1:1.58	0.01	3603.30	55773	0.0	14.00	13.59	50	25	Right	0	N/A	0.642	0.190	1.099	0.706	0.209		12.5	
Body	LTE Band 48	20	QPSK	3	W3T12	1:1.58	-0.01	3646.70	56207	0.0	14.00	13.71	50	25	Right	0	N/A	0.627	0.185	1.069	0.670	0.198		12.7	
Body	LTE Band 48	20	QPSK	3	W3T12	1:1.58	0.00	3690.00	56640	0.0	14.00	13.72	50	25	Right	0	N/A	0.517	0.160	1.094	0.587	0.187		13.0	
Body	LTE Band 48	20	QPSK	3	W3T12	1:1.58	0.03	3690.00	56640	0.0	14.00	13.64	100	0	Right	0	N/A	0.597	0.177	1.086	0.648	0.192		12.9	
Body	LTE Band 48	20	QPSK	3	W3T12	1:1.58	0.08	3690.00	56640	0.0	14.00	13.65	1	50	Left	0	N/A	0.007	0.002	1.084	0.008	0.002		32.6	
Body	LTE Band 48	20	QPSK	3	W3T12	1:1.58	0.07	3690.00	56640	0.0	14.00	13.72	50	25	Left	0	N/A	0.013	0.004	1.067	0.014	0.004		29.6	
Body	LTE Band 48	20	QPSK	3	W3T12	1:1.58	0.00	3560.00	55340	0.0	14.00	13.39	1	99	Back	0	ULCA 48C	0.783	0.199	1.151	0.901	0.229		11.4	
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 10-46 Antenna 4b

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	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 #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 48	20	QPSK	4b	2747V	1:1.58	-0.01	3560.00	55340	0.0	13.20	11.71	1	50	Back	0	N/A	0.375	0.115	1.409	0.528	0.162		13.9	
Body	LTE Band 48	20	QPSK	4b	2747V	1:1.58	-0.01	3560.00	55340	0.0	13.20	11.80	50	25	Back	0	N/A	0.387	0.118	1.380	0.534	0.163		13.9	
Body	LTE Band 48	20	QPSK	4b	2747V	1:1.58	-0.01	3560.00	55340	0.0	13.20	11.71	1	50	Top	0	N/A	0.655	0.185	1.409	0.923	0.261		11.5	
Body	LTE Band 48	20	QPSK	4b	2747V	1:1.58	-0.05	3603.30	55773	0.0	13.20	11.61	1	50	Top	0	N/A	0.639	0.177	1.442	0.921	0.255		11.5	
Body	LTE Band 48	20	QPSK	4b	2747V	1:1.58	-0.03	3646.70	56207	0.0	13.20	11.57	1	50	Top	0	N/A	0.649	0.181	1.455	0.944	0.263		11.4	
Body	LTE Band 48	20	QPSK	4b	2747V	1:1.58	-0.02	3690.00	56640	0.0	13.20	11.62	1	50	Top	0	N/A	0.654	0.185	1.439	0.941	0.266		11.4	
Body	LTE Band 48	20	QPSK	4b	2747V	1:1.58	-0.01	3560.00	55340	0.0	13.20	11.80	50	25	Top	0	N/A	0.669	0.188	1.380	0.923	0.259		11.5	
Body	LTE Band 48	20	QPSK	4b	2747V	1:1.58	-0.03	3603.30	55773	0.0	13.20	11.71	50	25	Top	0	N/A	0.659	0.183	1.409	0.929	0.258		11.5	
Body	LTE Band 48	20	QPSK	4b	2747V	1:1.58	-0.02	3646.70	56207	0.0	13.20	11.65	50	25	Top	0	N/A	0.651	0.181	1.429	0.930	0.259		11.5	
Body	LTE Band 48	20	QPSK	4b	2747V	1:1.58	0.01	3690.00	56640	0.0	13.20	11.69	50	25	Top	0	N/A	0.683	0.192	1.416	0.967	0.272		11.3	
Body	LTE Band 48	20	QPSK	4b	2747V	1:1.58	-0.02	3690.00	56640	0.0	13.20	11.64	50	0	Top	0	N/A	0.650	0.184	1.432	0.931	0.263		11.5	11.3
Body	LTE Band 48	20	QPSK	4b	2747V	1:1.58	0.00	3560.00	55340	0.0	13.20	11.70	100	0	Top	0	N/A	0.676	0.189	1.413	0.955	0.267		11.4	
Body	LTE Band 48	20	QPSK	4b	2747V	1:1.58	0.09	3560.00	55340	0.0	13.20	11.71	1	50	Bottom	0	N/A	0.001	0.000	1.409	0.001	0.000		39.7	
Body	LTE Band 48	20	QPSK	4b	2747V	1:1.58	0.08	3560.00	55340	0.0	13.20	11.80	50	25	Bottom	0	N/A	0.000	0.000	1.380	0.000	0.000		49.8	
Body	LTE Band 48	20	QPSK	4b	2747V	1:1.58	0.04	3560.00	55340	0.0	13.20	11.71	1	50	Right	0	N/A	0.006	0.002	1.409	0.008	0.003		31.9	
Body	LTE Band 48	20	QPSK	4b	2747V	1:1.58	0.07	3560.00	55340	0.0	13.20	11.80	50	25	Right	0	N/A	0.005	0.002	1.380	0.007	0.003		32.8	
Body	LTE Band 48	20	QPSK	4b	2747V	1:1.58	-0.21	3560.00	55340	0.0	13.20	11.71	1	50	Left	0	N/A	0.037	0.010	1.409	0.052	0.014		24.0	
Body	LTE Band 48	20	QPSK	4b	2747V	1:1.58	-0.10	3560.00	55340	0.0	13.20	11.80	50	25	Left	0	N/A	0.039	0.012	1.380	0.054	0.017		23.9	
Body	LTE Band 48	20	QPSK	4b	2747V	1:1.58	-0.03	3690.00	56640	0.0	13.20	11.59	50	0	Top	0	ULCA 48C	0.628	0.177	1.449	0.910	0.256		11.6	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																		Body 1.6 W/kg (mW/g) averaged over 1 gram							

10.16 NR Band n71 Standalone SAR

Table 10-47 Antenna 1

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n71	20	QPSK	1	9445I	1:1	0.00	680.50	136100	DFT-s-OFDM	0.0	19.80	18.40	1	53	Back	0	0.647	0.246	1.380	0.893	0.339		19.3	18.9
Body	NR Band n71	20	QPSK	1	9445I	1:1	-0.04	680.50	136100	DFT-s-OFDM	0.0	19.80	18.46	50	28	Back	0	0.623	0.230	1.361	0.848	0.313		19.5	
Body	NR Band n71	20	QPSK	1	9445I	1:1	-0.02	680.50	136100	DFT-s-OFDM	0.0	19.80	18.39	100	0	Back	0	0.654	0.255	1.384	0.905	0.353		19.2	
Body	NR Band n71	20	QPSK	1	9445I	1:1	0.01	680.50	136100	CP-OFDM	0.0	19.80	18.37	1	1	Back	0	0.694	0.261	1.390	0.965	0.363		18.9	
Body	NR Band n71	20	QPSK	1	9445I	1:1	0.04	680.50	136100	DFT-s-OFDM	0.0	19.80	18.40	1	53	Top	0	0.020	0.008	1.380	0.028	0.011		34.4	
Body	NR Band n71	20	QPSK	1	9445I	1:1	0.05	680.50	136100	DFT-s-OFDM	0.0	19.80	18.46	50	28	Top	0	0.013	0.005	1.361	0.018	0.007		36.3	
Body	NR Band n71	20	QPSK	1	9445I	1:1	0.00	680.50	136100	DFT-s-OFDM	0.0	19.80	18.40	1	53	Bottom	0	0.491	0.183	1.380	0.678	0.253		20.5	
Body	NR Band n71	20	QPSK	1	9445I	1:1	0.05	680.50	136100	DFT-s-OFDM	0.0	19.80	18.46	50	28	Bottom	0	0.473	0.179	1.361	0.644	0.244		20.7	
Body	NR Band n71	20	QPSK	1	9445I	1:1	0.03	680.50	136100	DFT-s-OFDM	0.0	19.80	18.40	1	53	Right	0	0.021	0.008	1.380	0.029	0.011		34.2	
Body	NR Band n71	20	QPSK	1	9445I	1:1	0.00	680.50	136100	DFT-s-OFDM	0.0	19.80	18.46	50	28	Right	0	0.034	0.013	1.361	0.046	0.018		32.1	
Body	NR Band n71	20	QPSK	1	9445I	1:1	0.02	680.50	136100	DFT-s-OFDM	0.0	19.80	18.40	1	53	Left	0	0.305	0.123	1.380	0.421	0.170		22.5	
Body	NR Band n71	20	QPSK	1	9445I	1:1	0.03	680.50	136100	DFT-s-OFDM	0.0	19.80	18.46	50	28	Left	0	0.223	0.091	1.361	0.304	0.124		24.0	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																		1.6 W/kg (mW/g) averaged over 1 gram							
Spatial Peak																		Body							
Uncontrolled Exposure/General Population																									

Table 10-48 Antenna 3

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n71	20	QPSK	3	W3712	1:1	0.02	680.50	136100	DFT-s-OFDM	0.0	19.50	19.32	1	104	Back	0	0.614	0.319	1.042	0.640	0.332		20.4	19.0
Body	NR Band n71	20	QPSK	3	W3712	1:1	0.03	680.50	136100	DFT-s-OFDM	0.0	19.50	19.28	50	0	Back	0	0.711	0.371	1.052	0.748	0.390		19.7	
Body	NR Band n71	20	QPSK	3	W3712	1:1	0.04	680.50	136100	DFT-s-OFDM	0.0	19.50	19.22	100	0	Back	0	0.725	0.365	1.067	0.774	0.389		19.6	
Body	NR Band n71	20	QPSK	3	W3712	1:1	0.01	680.50	136100	DFT-s-OFDM	0.0	19.50	19.32	1	104	Top	0	0.815	0.291	1.042	0.849	0.303		19.2	
Body	NR Band n71	20	QPSK	3	W3712	1:1	-0.01	680.50	136100	DFT-s-OFDM	0.0	19.50	19.28	50	0	Top	0	0.847	0.308	1.052	0.891	0.324	A16	19.0	
Body	NR Band n71	20	QPSK	3	W3712	1:1	0.00	680.50	136100	DFT-s-OFDM	0.0	19.50	19.30	50	0	Top	0	0.802	0.295	1.052	0.844	0.310		19.2	
Body	NR Band n71	20	QPSK	3	W3712	1:1	0.06	680.50	136100	DFT-s-OFDM	0.0	19.50	19.22	100	0	Top	0	0.815	0.295	1.067	0.870	0.315		19.1	
Body	NR Band n71	20	QPSK	3	W3712	1:1	-0.01	680.50	136100	CP-OFDM	0.0	19.50	19.99	1	1	Top	0	0.753	0.275	1.125	0.847	0.309		19.2	
Body	NR Band n71	20	QPSK	3	W3712	1:1	0.01	680.50	136100	DFT-s-OFDM	0.0	19.50	19.32	1	104	Bottom	0	0.018	0.007	1.042	0.019	0.007		35.7	
Body	NR Band n71	20	QPSK	3	W3712	1:1	0.02	680.50	136100	DFT-s-OFDM	0.0	19.50	19.28	50	0	Bottom	0	0.016	0.007	1.052	0.017	0.007		36.2	
Body	NR Band n71	20	QPSK	3	W3712	1:1	0.08	680.50	136100	DFT-s-OFDM	0.0	19.50	19.32	1	104	Right	0	0.277	0.126	1.042	0.289	0.131		23.9	
Body	NR Band n71	20	QPSK	3	W3712	1:1	-0.05	680.50	136100	DFT-s-OFDM	0.0	19.50	19.28	50	0	Right	0	0.289	0.129	1.052	0.304	0.136		23.7	
Body	NR Band n71	20	QPSK	3	W3712	1:1	0.02	680.50	136100	DFT-s-OFDM	0.0	19.50	19.32	1	104	Left	0	0.073	0.028	1.042	0.076	0.029		29.7	
Body	NR Band n71	20	QPSK	3	W3712	1:1	0.21	680.50	136100	DFT-s-OFDM	0.0	19.50	19.28	50	0	Left	0	0.080	0.031	1.052	0.084	0.033		29.2	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																		Body							
Spatial Peak																		1.6 W/kg (mW/g)							
Uncontrolled Exposure/General Population																		averaged over 1 gram							

Note: Blue entry represents variability measurement

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Document S/N: 1C2311270068-02.BCG-R1	DUT Type: Tablet Device		Technical Manager
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10.17 NR Band n12 Standalone SAR

Table 10-49 Antenna 1

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n12	15	QPSK	1	9445J	1:1	-0.04	707.50	141500	DFT-s-OFDM	0.0	20.30	18.80	1	40	Back	0	0.659	0.276	1.413	0.931	0.350		19.6	
Body	NR Band n12	15	QPSK	1	9445J	1:1	0.01	707.50	141500	DFT-s-OFDM	0.0	20.30	18.76	36	22	Back	0	0.640	0.245	1.426	0.913	0.349		19.7	
Body	NR Band n12	15	QPSK	1	9445J	1:1	-0.01	707.50	141500	DFT-s-OFDM	0.0	20.30	18.75	75	0	Back	0	0.633	0.253	1.429	0.905	0.362		19.7	
Body	NR Band n12	15	QPSK	1	9445J	1:1	-0.01	707.50	141500	CP-OFDM	0.0	20.30	18.64	1	1	Back	0	0.676	0.263	1.466	0.991	0.386		19.3	
Body	NR Band n12	15	QPSK	1	9445J	1:1	0.01	707.50	141500	DFT-s-OFDM	0.0	20.30	18.80	1	40	Top	0	0.017	0.009	1.413	0.024	0.013		35.5	
Body	NR Band n12	15	QPSK	1	9445J	1:1	0.02	707.50	141500	DFT-s-OFDM	0.0	20.30	18.76	36	22	Top	0	0.019	0.009	1.426	0.027	0.013		35.0	
Body	NR Band n12	15	QPSK	1	9445J	1:1	0.06	707.50	141500	DFT-s-OFDM	0.0	20.30	18.80	1	40	Bottom	0	0.647	0.231	1.413	0.914	0.326		19.7	19.3
Body	NR Band n12	15	QPSK	1	9445J	1:1	0.02	707.50	141500	DFT-s-OFDM	0.0	20.30	18.76	36	22	Bottom	0	0.605	0.218	1.426	0.863	0.311		19.9	
Body	NR Band n12	15	QPSK	1	9445J	1:1	0.01	707.50	141500	DFT-s-OFDM	0.0	20.30	18.75	75	0	Bottom	0	0.638	0.228	1.429	0.912	0.326		19.7	
Body	NR Band n12	15	QPSK	1	9445J	1:1	0.06	707.50	141500	DFT-s-OFDM	0.0	20.30	18.80	1	40	Right	0	0.048	0.019	1.413	0.068	0.027		31.0	
Body	NR Band n12	15	QPSK	1	9445J	1:1	0.03	707.50	141500	DFT-s-OFDM	0.0	20.30	18.76	36	22	Right	0	0.049	0.021	1.426	0.070	0.030		30.8	
Body	NR Band n12	15	QPSK	1	9445J	1:1	0.09	707.50	141500	DFT-s-OFDM	0.0	20.30	18.80	1	40	Left	0	0.378	0.158	1.413	0.534	0.223		22.0	
Body	NR Band n12	15	QPSK	1	9445J	1:1	0.02	707.50	141500	DFT-s-OFDM	0.0	20.30	18.76	36	22	Left	0	0.370	0.152	1.426	0.538	0.217		22.1	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																Body 1.6 W/kg (mW/g) averaged over 1 gram									

Table 10-50 Antenna 3

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n12	15	QPSK	3	W3712	1:1	0.02	707.50	141500	DFT-s-OFDM	0.0	19.20	18.52	1	40	Back	0	0.495	0.254	1.169	0.579	0.297		20.6	
Body	NR Band n12	15	QPSK	3	W3712	1:1	-0.03	707.50	141500	DFT-s-OFDM	0.0	19.20	18.57	36	0	Back	0	0.556	0.247	1.156	0.643	0.286		20.1	
Body	NR Band n12	15	QPSK	3	W3712	1:1	0.02	707.50	141500	DFT-s-OFDM	0.0	19.20	18.52	1	40	Top	0	0.594	0.215	1.169	0.694	0.251		19.8	
Body	NR Band n12	15	QPSK	3	W3712	1:1	0.06	707.50	141500	DFT-s-OFDM	0.0	19.20	18.57	36	0	Top	0	0.784	0.285	1.156	0.906	0.329	A17	18.6	
Body	NR Band n12	15	QPSK	3	W3712	1:1	-0.04	707.50	141500	DFT-s-OFDM	0.0	19.20	18.47	75	0	Top	0	0.652	0.232	1.183	0.771	0.274		19.3	
Body	NR Band n12	15	QPSK	3	W3712	1:1	-0.09	707.50	141500	CP-OFDM	0.0	19.20	18.34	1	1	Top	0	0.639	0.234	1.219	0.779	0.285		19.3	18.6
Body	NR Band n12	15	QPSK	3	W3712	1:1	0.09	707.50	141500	DFT-s-OFDM	0.0	19.20	18.52	1	40	Bottom	0	0.023	0.008	1.169	0.027	0.009		33.9	
Body	NR Band n12	15	QPSK	3	W3712	1:1	0.05	707.50	141500	DFT-s-OFDM	0.0	19.20	18.57	36	0	Bottom	0	0.024	0.012	1.156	0.028	0.014		33.7	
Body	NR Band n12	15	QPSK	3	W3712	1:1	0.05	707.50	141500	DFT-s-OFDM	0.0	19.20	18.52	1	40	Right	0	0.199	0.091	1.169	0.233	0.105		24.5	
Body	NR Band n12	15	QPSK	3	W3712	1:1	0.03	707.50	141500	DFT-s-OFDM	0.0	19.20	18.57	36	0	Right	0	0.236	0.109	1.156	0.273	0.125		23.8	
Body	NR Band n12	15	QPSK	3	W3712	1:1	-0.02	707.50	141500	DFT-s-OFDM	0.0	19.20	18.52	1	40	Left	0	0.041	0.017	1.169	0.048	0.020		31.4	
Body	NR Band n12	15	QPSK	3	W3712	1:1	0.05	707.50	141500	DFT-s-OFDM	0.0	19.20	18.57	36	0	Left	0	0.051	0.021	1.156	0.059	0.024		30.5	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																Body 1.6 W/kg (mW/g) averaged over 1 gram									

10.18 NR Band n14 Standalone SAR

Table 10-51 Antenna 1

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n14	10	QPSK	1	QK49K	1:1	0.01	793.00	158600	DFT-s-OFDM	0.0	20.10	19.11	1	1	Back	0	0.746	0.306	1.256	0.937	0.394		19.4	
Body	NR Band n14	10	QPSK	1	QK49K	1:1	0.01	793.00	158600	DFT-s-OFDM	0.0	20.10	19.02	25	27	Back	0	0.693	0.289	1.282	0.888	0.376		19.6	
Body	NR Band n14	10	QPSK	1	QK49K	1:1	0.03	793.00	158600	DFT-s-OFDM	0.0	20.10	18.97	50	0	Back	0	0.719	0.293	1.297	0.933	0.380		19.4	
Body	NR Band n14	10	QPSK	1	QK49K	1:1	-0.02	793.00	158600	DFT-s-OFDM	0.0	20.10	19.11	1	1	Top	0	0.040	0.018	1.256	0.050	0.023		32.1	
Body	NR Band n14	10	QPSK	1	QK49K	1:1	-0.19	793.00	158600	DFT-s-OFDM	0.0	20.10	19.02	25	27	Top	0	0.039	0.017	1.282	0.050	0.022		32.1	
Body	NR Band n14	10	QPSK	1	QK49K	1:1	0.07	793.00	158600	DFT-s-OFDM	0.0	20.10	19.11	1	1	Bottom	0	0.790	0.269	1.256	0.992	0.338	A18	19.1	
Body	NR Band n14	10	QPSK	1	QK49K	1:1	0.01	793.00	158600	DFT-s-OFDM	0.0	20.10	19.02	25	27	Bottom	0	0.750	0.259	1.282	0.962	0.332		19.3	19.1
Body	NR Band n14	10	QPSK	1	QK49K	1:1	-0.03	793.00	158600	DFT-s-OFDM	0.0	20.10	18.97	50	0	Bottom	0	0.740	0.257	1.297	0.960	0.333		19.3	
Body	NR Band n14	10	QPSK	1	QK49K	1:1	0.02	793.00	158600	CP-OFDM	0.0	20.10	19.05	1	1	Bottom	0	0.754	0.258	1.274	0.935	0.329		19.4	
Body	NR Band n14	10	QPSK	1	QK49K	1:1	0.08	793.00	158600	DFT-s-OFDM	0.0	20.10	19.11	1	1	Right	0	0.045	0.019	1.256	0.057	0.024		31.6	
Body	NR Band n14	10	QPSK	1	QK49K	1:1	0.05	793.00	158600	DFT-s-OFDM	0.0	20.10	19.02	25	27	Right	0	0.047	0.021	1.282	0.060	0.027		31.3	
Body	NR Band n14	10	QPSK	1	QK49K	1:1	-0.06	793.00	158600	DFT-s-OFDM	0.0	20.10	19.11	1	1	Left	0	0.469	0.199	1.256	0.589	0.250		21.4	
Body	NR Band n14	10	QPSK	1	QK49K	1:1	0.01	793.00	158600	DFT-s-OFDM	0.0	20.10	19.02	25	27	Left	0	0.458	0.194	1.282	0.587	0.249		21.4	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																Body 1.6 W/kg (mW/g) averaged over 1 gram									

Table 10-52 Antenna 3

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n14	10	QPSK	3	W3712	1:1	0.02	793.00	158600	DFT-s-OFDM	0.0	19.80	18.28	1	1	Back	0	0.590	0.307	1.419	0.837	0.436		19.6	
Body	NR Band n14	10	QPSK	3	W3712	1:1	0.04	793.00	158600	DFT-s-OFDM	0.0	19.80	18.20	25	14	Back	0	0.566	0.296	1.445	0.818	0.428		19.7	
Body	NR Band n14	10	QPSK	3	W3712	1:1	0.00	793.00	158600	DFT-s-OFDM	0.0	19.80	18.19	50	0	Back	0	0.572	0.283	1.449	0.829	0.410		19.6	
Body	NR Band n14	10	QPSK	3	W3712	1:1	0.05	793.00	158600	DFT-s-OFDM	0.0	19.80	18.28	1	1	Top	0	0.612	0.219	1.419	0.868	0.311		19.4	
Body	NR Band n14	10	QPSK	3	W3712	1:1	-0.02	793.00	158600	DFT-s-OFDM	0.0	19.80	18.20	25	14	Top	0	0.662	0.237	1.445	0.957	0.342		19.0	
Body	NR Band n14	10	QPSK	3	W3712	1:1	-0.02	793.00	158600	DFT-s-OFDM	0.0	19.80	18.19	50	0	Top	0	0.642	0.224	1.449	0.930	0.325		19.1	
Body	NR Band n14	10	QPSK	3	W3712	1:1	0.11	793.00	158600	CP-OFDM	0.0	19.80	18.13	1	1	Top	0	0.628	0.231	1.469	0.923	0.339		19.1	19.0
Body	NR Band n14	10	QPSK	3	W3712	1:1	0.00	793.00	158600	DFT-s-OFDM	0.0	19.80	18.28	1	1	Bottom	0	0.024	0.012	1.419	0.034	0.017		33.5	
Body	NR Band n14	10	QPSK	3	W3712	1:1	-0.15	793.00	158600	DFT-s-OFDM	0.0	19.80	18.20	25	14	Bottom	0	0.020	0.011	1.445	0.029	0.016		34.2	
Body	NR Band n14	10	QPSK	3	W3712	1:1	-0.11	793.00	158600	DFT-s-OFDM	0.0	19.80	18.28	1	1	Right	0	0.261	0.126	1.419	0.370	0.179		23.1	
Body	NR Band n14	10	QPSK	3	W3712	1:1	-0.04	793.00	158600	DFT-s-OFDM	0.0	19.80	18.20	25	14	Right	0	0.246	0.118	1.445	0.355	0.171		23.3	
Body	NR Band n14	10	QPSK	3	W3712	1:1	0.08	793.00	158600	DFT-s-OFDM	0.0	19.80	18.28	1	1	Left	0	0.034	0.015	1.419	0.048	0.021		31.9	
Body	NR Band n14	10	QPSK	3	W3712	1:1	-0.04	793.00	158600	DFT-s-OFDM	0.0	19.80	18.20	25	14	Left	0	0.045	0.020	1.445	0.065	0.029		30.6	
ANSI/IEEE C63.1 1992 - SAFETY LIMIT													Body												
Spatial Peak													1.6 W/kg (mW/g)												
Uncontrolled Exposure/General Population													averaged over 1 gram												

10.19 NR Band n26 Standalone SAR

Table 10-53 Antenna 1

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n26	20	QPSK	1	9GLW0	1:1	-0.07	831.50	166300	DFT-s-OFDM	0.0	20.20	19.23	1	1	Back	0	0.684	0.252	1.250	0.855	0.315		19.9	
Body	NR Band n26	20	QPSK	1	9GLW0	1:1	0.03	831.50	166300	DFT-s-OFDM	0.0	20.20	19.06	50	0	Back	0	0.704	0.259	1.300	0.915	0.337		19.6	
Body	NR Band n26	20	QPSK	1	9GLW0	1:1	-0.02	831.50	166300	DFT-s-OFDM	0.0	20.20	18.98	100	0	Back	0	0.630	0.242	1.324	0.834	0.320		20.0	
Body	NR Band n26	20	QPSK	1	9GLW0	1:1	0.00	831.50	166300	CP-OFDM	0.0	20.20	19.02	1	1	Back	0	0.698	0.260	1.312	0.916	0.341		19.6	
Body	NR Band n26	20	QPSK	1	9GLW0	1:1	0.03	831.50	166300	DFT-s-OFDM	0.0	20.20	19.21	1	1	Top	0	0.024	0.013	1.250	0.030	0.016		34.4	
Body	NR Band n26	20	QPSK	1	9GLW0	1:1	-0.12	831.50	166300	DFT-s-OFDM	0.0	20.20	19.06	50	0	Top	0	0.017	0.018	1.300	0.048	0.023		32.4	
Body	NR Band n26	20	QPSK	1	9GLW0	1:1	0.02	831.50	166300	DFT-s-OFDM	0.0	20.20	19.23	1	1	Bottom	0	0.582	0.203	1.250	0.728	0.254		20.6	
Body	NR Band n26	20	QPSK	1	9GLW0	1:1	-0.04	831.50	166300	DFT-s-OFDM	0.0	20.20	19.06	50	0	Bottom	0	0.449	0.157	1.300	0.584	0.204		21.5	
Body	NR Band n26	20	QPSK	1	9GLW0	1:1	0.02	831.50	166300	DFT-s-OFDM	0.0	20.20	19.23	1	1	Right	0	0.068	0.030	1.250	0.085	0.038		29.9	
Body	NR Band n26	20	QPSK	1	9GLW0	1:1	-0.03	831.50	166300	DFT-s-OFDM	0.0	20.20	19.06	50	0	Right	0	0.061	0.028	1.300	0.079	0.036		30.2	
Body	NR Band n26	20	QPSK	1	9GLW0	1:1	0.00	831.50	166300	DFT-s-OFDM	0.0	20.20	19.23	1	1	Left	0	0.356	0.154	1.250	0.445	0.193		22.7	
Body	NR Band n26	20	QPSK	1	9GLW0	1:1	0.05	831.50	166300	DFT-s-OFDM	0.0	20.20	19.06	50	0	Left	0	0.261	0.116	1.300	0.339	0.151		23.9	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																	Body		1.6 W/kg (mW/g)					Spatial Peak	
Uncontrolled Exposure/General Population																			averaged over 1 gram						

Table 10-54 Antenna 3

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n26	20	QPSK	3	W3T12	1:1	-0.01	831.50	166300	DFT-s-OFDM	0.0	19.70	18.59	1	1	Back	0	0.750	0.380	1.291	0.958	0.451		18.8	
Body	NR Band n26	20	QPSK	3	W3T12	1:1	-0.06	831.50	166300	DFT-s-OFDM	0.0	19.70	18.56	50	0	Back	0	0.736	0.372	1.300	0.957	0.484		18.9	
Body	NR Band n26	20	QPSK	3	W3T12	1:1	-0.02	831.50	166300	DFT-s-OFDM	0.0	19.70	18.49	100	0	Back	0	0.719	0.363	1.321	0.950	0.480		18.9	
Body	NR Band n26	20	QPSK	3	W3T12	1:1	-0.01	831.50	166300	DFT-s-OFDM	0.0	19.70	18.59	1	1	Top	0	0.757	0.269	1.291	0.977	0.427		18.8	
Body	NR Band n26	20	QPSK	3	W3T12	1:1	0.00	831.50	166300	DFT-s-OFDM	0.0	19.70	18.56	50	0	Top	0	0.764	0.266	1.300	0.991	0.346	A19	18.7	
Body	NR Band n26	20	QPSK	3	W3T12	1:1	-0.06	831.50	166300	DFT-s-OFDM	0.0	19.70	18.49	100	0	Top	0	0.705	0.249	1.321	0.911	0.329		19.0	
Body	NR Band n26	20	QPSK	3	W3T12	1:1	0.03	831.50	166300	CP-OFDM	0.0	19.70	18.54	1	1	Top	0	0.736	0.260	1.306	0.961	0.340		18.7	
Body	NR Band n26	20	QPSK	3	W3T12	1:1	0.03	831.50	166300	DFT-s-OFDM	0.0	19.70	18.59	1	1	Bottom	0	0.028	0.016	1.291	0.036	0.021		33.1	
Body	NR Band n26	20	QPSK	3	W3T12	1:1	-0.20	831.50	166300	DFT-s-OFDM	0.0	19.70	18.56	50	0	Bottom	0	0.037	0.019	1.300	0.048	0.025		31.9	
Body	NR Band n26	20	QPSK	3	W3T12	1:1	0.01	831.50	166300	DFT-s-OFDM	0.0	19.70	18.59	1	1	Right	0	0.281	0.124	1.291	0.363	0.160		23.1	
Body	NR Band n26	20	QPSK	3	W3T12	1:1	0.01	831.50	166300	DFT-s-OFDM	0.0	19.70	18.56	50	0	Right	0	0.272	0.121	1.300	0.354	0.157		23.2	
Body	NR Band n26	20	QPSK	3	W3T12	1:1	-0.01	831.50	166300	DFT-s-OFDM	0.0	19.70	18.59	1	1	Left	0	0.056	0.025	1.291	0.072	0.032		30.1	
Body	NR Band n26	20	QPSK	3	W3T12	1:1	-0.21	831.50	166300	DFT-s-OFDM	0.0	19.70	18.56	50	0	Left	0	0.044	0.020	1.300	0.057	0.026		31.1	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																	Body		1.6 W/kg (mW/g)					Spatial Peak	
Uncontrolled Exposure/General Population																			averaged over 1 gram						

10.20 NR Band n5 Standalone SAR

Table 10-55 Antenna 1

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n5	20	QPSK	1	9GLW0	1:1	-0.03	836.50	167300	DFT-s-OFDM	0.0	20.20	19.37	1	1	Back	0	0.760	0.280	1.211	0.920	0.339	A20	19.5	
Body	NR Band n5	20	QPSK	1	9GLW0	1:1	-0.22	836.50	167300	DFT-s-OFDM	0.0	20.20	19.34	50	0	Back	0	0.727	0.273	1.219	0.886	0.333		19.7	
Body	NR Band n5	20	QPSK	1	9GLW0	1:1	-0.01	836.50	167300	DFT-s-OFDM	0.0	20.20	19.28	100	0	Back	0	0.720	0.264	1.236	0.890	0.326		19.7	
Body	NR Band n5	20	QPSK	1	9GLW0	1:1	-0.02	836.50	167300	CP-OFDM	0.0	20.20	19.38	1	1	Back	0	0.750	0.280	1.208	0.906	0.338		19.6	
Body	NR Band n5	20	QPSK	1	9GLW0	1:1	0.02	836.50	167300	DFT-s-OFDM	0.0	20.20	19.37	1	1	Top	0	0.038	0.020	1.211	0.046	0.024		32.6	
Body	NR Band n5	20	QPSK	1	9GLW0	1:1	-0.09	836.50	167300	DFT-s-OFDM	0.0	20.20	19.34	50	0	Top	0	0.038	0.020	1.219	0.046	0.024		32.5	
Body	NR Band n5	20	QPSK	1	9GLW0	1:1	0.06	836.50	167300	DFT-s-OFDM	0.0	20.20	19.37	1	1	Bottom	0	0.675	0.233	1.211	0.817	0.282		20.1	
Body	NR Band n5	20	QPSK	1	9GLW0	1:1	-0.02	836.50	167300	DFT-s-OFDM	0.0	20.20	19.34	50	0	Bottom	0	0.609	0.225	1.219	0.742	0.274		20.5	
Body	NR Band n5	20	QPSK	1	9GLW0	1:1	-0.05	836.50	167300	DFT-s-OFDM	0.0	20.20	19.28	100	0	Bottom	0	0.563	0.204	1.236	0.696	0.252		20.8	
Body	NR Band n5	20	QPSK	1	9GLW0	1:1	0.15	836.50	167300	DFT-s-OFDM	0.0	20.20	19.37	1	1	Right	0	0.070	0.032	1.211	0.085	0.039		29.9	
Body	NR Band n5	20	QPSK	1	9GLW0	1:1	-0.03	836.50	167300	DFT-s-OFDM	0.0	20.20	19.34	50	0	Right	0	0.061	0.028	1.219	0.074	0.034		30.5	
Body	NR Band n5	20	QPSK	1	9GLW0	1:1	0.03	836.50	167300	DFT-s-OFDM	0.0	20.20	19.37	1	1	Left	0	0.365	0.158	1.211	0.442	0.191		22.7	
Body	NR Band n5	20	QPSK	1	9GLW0	1:1	0.03	836.50	167300	DFT-s-OFDM	0.0	20.20	19.34	50	0	Left	0	0.398	0.172	1.219	0.485	0.210		22.3	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																	Body		1.6 W/kg (mW/g)					Spatial Peak	
Uncontrolled Exposure/General Population																			averaged over 1 gram						

Table 10-56 Antenna 3

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n5	20	QPSK	3	W3T12	1:1	0.02	836.50	167300	DFT-s-OFDM	0.0	19.70	18.73	1	1	Back	0	0.703	0.355	1.250	0.879	0.444		19.2	
Body	NR Band n5	20	QPSK	3	W3T12	1:1	-0.03	836.50	167300	DFT-s-OFDM	0.0	19.70	18.68	50	0	Back	0	0.692	0.347	1.265	0.875	0.439		19.3	
Body	NR Band n5	20	QPSK	3	W3T12	1:1	0.00	836.50	167300	DFT-s-OFDM	0.0	19.70	18.61	100	0	Back	0	0.685	0.342	1.285	0.880	0.439		19.2	
Body	NR Band n5	20	QPSK	3	W3T12	1:1	-0.01	836.50	167300	DFT-s-OFDM	0.0	19.70	18.73	1	1	Top	0	0.721	0.254	1.250	0.901	0.318		19.1	
Body	NR Band n5	20	QPSK	3	W3T12	1:1	0.00	836.50	167300	DFT-s-OFDM	0.0	19.70	18.68	50	0	Top	0	0.691	0.243	1.265	0.874	0.307		19.3	
Body	NR Band n5	20	QPSK	3	W3T12	1:1	-0.01	836.50	167300	DFT-s-OFDM	0.0	19.70	18.61	100	0	Top	0	0.662	0.232	1.285	0.851	0.298		19.4	
Body	NR Band n5	20	QPSK	3	W3T12	1:1	0.00	836.50	167300	CP-OFDM	0.0	19.70	18.75	1	1	Top	0	0.715	0.250	1.245	0.890	0.311		19.2	19.1
Body	NR Band n5	20	QPSK	3	W3T12	1:1	0.03	836.50	167300	DFT-s-OFDM	0.0	19.70	18.73	1	1	Bottom	0	0.036	0.021	1.250	0.045	0.026		32.1	
Body	NR Band n5	20	QPSK	3	W3T12	1:1	0.00	836.50	167300	DFT-s-OFDM	0.0	19.70	18.68	50	0	Bottom	0	0.033	0.018	1.265	0.042	0.023		32.5	
Body	NR Band n5	20	QPSK	3	W3T12	1:1	0.03	836.50	167300	DFT-s-OFDM	0.0	19.70	18.73	1	1	Right	0	0.219	0.103	1.250	0.274	0.129		24.3	
Body	NR Band n5	20	QPSK	3	W3T12	1:1	0.00	836.50	167300	DFT-s-OFDM	0.0	19.70	18.68	50	0	Right	0	0.269	0.119	1.265	0.340	0.151		23.4	
Body	NR Band n5	20	QPSK	3	W3T12	1:1	0.03	836.50	167300	DFT-s-OFDM	0.0	19.70	18.73	1	1	Left	0	0.046	0.020	1.250	0.058	0.025		31.1	
Body	NR Band n5	20	QPSK	3	W3T12	1:1	-0.03	836.50	167300	DFT-s-OFDM	0.0	19.70	18.68	50	0	Left	0	0.040	0.018	1.265	0.051	0.023		31.6	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																									
Spatial Peak																									
Uncontrolled Exposure/General Population																									
Body 1.6 W/kg (mW/g) averaged over 1 gram																									

10.21 NR Band n70 Standalone SAR

Table 10-57 Antenna 1

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n70	15	QPSK	1	F7951	1:1	-0.03	1702.50	340500	DFT-s-OFDM	0.0	14.50	14.36	1	77	Back	0	0.851	0.361	1.033	0.879	0.373	A21	15.0	15.0
Body	NR Band n70	15	QPSK	1	F7951	1:1	0.00	1702.50	340500	DFT-s-OFDM	0.0	14.50	14.30	36	0	Back	0	0.823	0.349	1.047	0.862	0.365		15.1	
Body	NR Band n70	15	QPSK	1	F7951	1:1	0.00	1702.50	340500	DFT-s-OFDM	0.0	14.50	14.28	75	0	Back	0	0.834	0.354	1.052	0.877	0.372		15.0	
Body	NR Band n70	15	QPSK	1	F7951	1:1	0.02	1702.50	340500	CP-OFDM	0.0	14.50	14.33	1	1	Back	0	0.822	0.347	1.040	0.855	0.361		15.1	
Body	NR Band n70	15	QPSK	1	F7951	1:1	0.02	1702.50	340500	DFT-s-OFDM	0.0	14.50	14.36	1	77	Top	0	0.002	0.000	1.033	0.002	0.000		41.3	
Body	NR Band n70	15	QPSK	1	F7951	1:1	0.01	1702.50	340500	DFT-s-OFDM	0.0	14.50	14.30	36	0	Top	0	0.003	0.000	1.047	0.003	0.000		39.5	
Body	NR Band n70	15	QPSK	1	F7951	1:1	0.02	1702.50	340500	DFT-s-OFDM	0.0	14.50	14.36	1	77	Bottom	0	0.558	0.222	1.033	0.576	0.229		16.8	
Body	NR Band n70	15	QPSK	1	F7951	1:1	0.00	1702.50	340500	DFT-s-OFDM	0.0	14.50	14.30	36	0	Bottom	0	0.587	0.231	1.047	0.615	0.242		16.6	
Body	NR Band n70	15	QPSK	1	F7951	1:1	0.09	1702.50	340500	DFT-s-OFDM	0.0	14.50	14.36	1	77	Right	0	0.008	0.003	1.033	0.008	0.003		35.3	
Body	NR Band n70	15	QPSK	1	F7951	1:1	0.04	1702.50	340500	DFT-s-OFDM	0.0	14.50	14.30	36	0	Right	0	0.009	0.004	1.047	0.009	0.004		34.7	
Body	NR Band n70	15	QPSK	1	F7951	1:1	-0.07	1702.50	340500	DFT-s-OFDM	0.0	14.50	14.36	1	77	Left	0	0.063	0.025	1.033	0.065	0.026		26.3	
Body	NR Band n70	15	QPSK	1	F7951	1:1	0.00	1702.50	340500	DFT-s-OFDM	0.0	14.50	14.30	36	0	Left	0	0.063	0.026	1.047	0.066	0.027		26.3	
ANSI/IEEE C95.1.1 1992 - SAFETY LIMIT																Body		1.6 W/kg (mW/g)		averaged over 1 gram					
Spatial Peak																									
Uncontrolled Exposure/General Population																									

Table 10-58 Antenna 2b

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n70	15	QPSK	2b	94451	1:1	0.04	1702.50	340500	DFT-s-OFDM	0.0	13.20	12.27	1	1	Back	0	0.725	0.294	1.239	0.898	0.364		12.6	
Body	NR Band n70	15	QPSK	2b	94451	1:1	0.01	1702.50	340500	DFT-s-OFDM	0.0	13.20	12.21	36	43	Back	0	0.729	0.294	1.256	0.916	0.369		12.6	
Body	NR Band n70	15	QPSK	2b	94451	1:1	-0.01	1702.50	340500	DFT-s-OFDM	0.0	13.20	12.15	75	0	Back	0	0.714	0.289	1.274	0.910	0.368		12.6	
Body	NR Band n70	15	QPSK	2b	94451	1:1	-0.06	1702.50	340500	DFT-s-OFDM	0.0	13.20	12.27	1	1	Top	0	0.000	0.000	1.239	0.000	0.000		51.3	
Body	NR Band n70	15	QPSK	2b	94451	1:1	0.05	1702.50	340500	DFT-s-OFDM	0.0	13.20	12.21	36	43	Top	0	0.000	0.000	1.256	0.000	0.000		51.2	
Body	NR Band n70	15	QPSK	2b	94451	1:1	0.09	1702.50	340500	DFT-s-OFDM	0.0	13.20	12.27	1	1	Bottom	0	0.715	0.270	1.239	0.886	0.335		12.7	
Body	NR Band n70	15	QPSK	2b	94451	1:1	0.03	1702.50	340500	DFT-s-OFDM	0.0	13.20	12.21	36	43	Bottom	0	0.710	0.266	1.256	0.892	0.334		12.7	12.5
Body	NR Band n70	15	QPSK	2b	94451	1:1	0.01	1702.50	340500	DFT-s-OFDM	0.0	13.20	12.15	75	0	Bottom	0	0.724	0.272	1.274	0.922	0.347		12.5	
Body	NR Band n70	15	QPSK	2b	94451	1:1	-0.02	1702.50	340500	CP-OFDM	0.0	13.20	12.25	1	1	Bottom	0	0.725	0.274	1.245	0.903	0.341		12.6	
Body	NR Band n70	15	QPSK	2b	94451	1:1	0.10	1702.50	340500	DFT-s-OFDM	0.0	13.20	12.27	1	1	Right	0	0.028	0.013	1.239	0.035	0.016		26.8	
Body	NR Band n70	15	QPSK	2b	94451	1:1	-0.09	1702.50	340500	DFT-s-OFDM	0.0	13.20	12.21	36	43	Right	0	0.029	0.013	1.256	0.036	0.016		26.6	
Body	NR Band n70	15	QPSK	2b	94451	1:1	0.07	1702.50	340500	DFT-s-OFDM	0.0	13.20	12.27	1	1	Left	0	0.004	0.001	1.239	0.005	0.001		35.2	
Body	NR Band n70	15	QPSK	2b	94451	1:1	0.09	1702.50	340500	DFT-s-OFDM	0.0	13.20	12.21	36	43	Left	0	0.005	0.001	1.256	0.006	0.001		34.2	
ANSI/IEEE C95.1.1 1992 - SAFETY LIMIT																		Body		1.6 W/kg (mW/g)		averaged over 1 gram			
Spatial Peak																									
Uncontrolled Exposure/General Population																									

Table 10-59 Antenna 3

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n70	15	QPSK	3	QK49K	1:1	0.00	1702.50	340500	DFT-s-OFDM	0.0	16.10	15.32	1	1	Back	0	0.633	0.307	1.197	0.758	0.367		16.3	
Body	NR Band n70	15	QPSK	3	QK49K	1:1	-0.03	1702.50	340500	DFT-s-OFDM	0.0	16.10	15.21	36	0	Back	0	0.615	0.299	1.227	0.755	0.367		16.3	
Body	NR Band n70	15	QPSK	3	QK49K	1:1	0.02	1702.50	340500	DFT-s-OFDM	0.0	16.10	15.32	1	1	Top	0	0.473	0.188	1.197	0.566	0.225		17.6	
Body	NR Band n70	15	QPSK	3	QK49K	1:1	-0.06	1702.50	340500	DFT-s-OFDM	0.0	16.10	15.21	36	0	Top	0	0.461	0.184	1.227	0.566	0.226		17.6	
Body	NR Band n70	15	QPSK	3	QK49K	1:1	-0.10	1702.50	340500	DFT-s-OFDM	0.0	16.10	15.32	1	1	Bottom	0	0.016	0.007	1.197	0.019	0.008		32.3	
Body	NR Band n70	15	QPSK	3	QK49K	1:1	0.10	1702.50	340500	DFT-s-OFDM	0.0	16.10	15.21	36	0	Bottom	0	0.000	0.000	1.227	0.000	0.000		54.2	
Body	NR Band n70	15	QPSK	3	QK49K	1:1	0.01	1702.50	340500	DFT-s-OFDM	0.0	16.10	15.32	1	1	Right	0	0.761	0.325	1.197	0.911	0.389		15.5	
Body	NR Band n70	15	QPSK	3	QK49K	1:1	-0.03	1702.50	340500	DFT-s-OFDM	0.0	16.10	15.21	36	0	Right	0	0.716	0.308	1.227	0.879	0.378		15.6	
Body	NR Band n70	15	QPSK	3	QK49K	1:1	0.05	1702.50	340500	DFT-s-OFDM	0.0	16.10	15.20	75	0	Right	0	0.656	0.287	1.230	0.807	0.353		16.0	
Body	NR Band n70	15	QPSK	3	QK49K	1:1	-0.05	1702.50	340500	CP-OFDM	0.0	16.10	15.27	1	1	Right	0	0.632	0.278	1.211	0.765	0.337		16.2	
Body	NR Band n70	15	QPSK	3	QK49K	1:1	0.09	1702.50	340500	DFT-s-OFDM	0.0	16.10	15.32	1	1	Left	0	0.000	0.000	1.197	0.000	0.000		54.3	
Body	NR Band n70	15	QPSK	3	QK49K	1:1	0.01	1702.50	340500	DFT-s-OFDM	0.0	16.10	15.21	36	0	Left	0	0.000	0.000	1.227	0.000	0.000		54.2	
ANSI/IEEE C95.1.1 1992 - SAFETY LIMIT																Body		1.6 W/kg (mW/g)		averaged over 1 gram					
Spatial Peak																									
Uncontrolled Exposure/General Population																									

Table 10-60 Antenna 4b

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n70	15	QPSK	4b	94451	1:1	0.01	1702.50	340500	DFT-s-OFDM	0.0	12.90	11.59	1	1	Back	0	0.354	0.152	1.352	0.479	0.206		15.1	
Body	NR Band n70	15	QPSK	4b	94451	1:1	0.00	1702.50	340500	DFT-s-OFDM	0.0	12.90	11.52	36	22	Back	0	0.308	0.133	1.374	0.423	0.183		15.6	
Body	NR Band n70	15	QPSK	4b	94451	1:1	-0.03	1702.50	340500	DFT-s-OFDM	0.0	12.90	11.59	1	1	Top	0	0.625	0.236	1.352	0.845	0.319		12.6	
Body	NR Band n70	15	QPSK	4b	94451	1:1	0.01	1702.50	340500	DFT-s-OFDM	0.0	12.90	11.52	36	22	Top	0	0.621	0.235	1.374	0.853	0.323		12.6	
Body	NR Band n70	15	QPSK	4b	94451	1:1	-0.03	1702.50	340500	DFT-s-OFDM	0.0	12.90	11.50	75	0	Top	0	0.639	0.239	1.380	0.882	0.330		12.4	
Body	NR Band n70	15	QPSK	4b	94451	1:1	0.03	1702.50	340500	CP-OFDM	0.0	12.90	11.53	1	1	Top	0	0.620	0.235	1.371	0.850	0.322		12.6	
Body	NR Band n70	15	QPSK	4b	94451	1:1	0.06	1702.50	340500	DFT-s-OFDM	0.0	12.90	11.90	1	1	Bottom	0	0.000	0.000	1.352	0.000	0.000		50.6	
Body	NR Band n70	15	QPSK	4b	94451	1:1	0.07	1702.50	340500	DFT-s-OFDM	0.0	12.90	11.52	36	22	Right	0	0.000	0.000	1.374	0.000	0.000		50.5	
Body	NR Band n70	15	QPSK	4b	94451	1:1	0.03	1702.50	340500	DFT-s-OFDM	0.0	12.90	11.50	1	1	Right	0	0.003	0.000	1.352	0.004	0.000		35.8	
Body	NR Band n70	15	QPSK	4b	94451	1:1	0.09	1702.50	340500	DFT-s-OFDM	0.0	12.90	11.52	36	22	Right	0	0.005	0.002	1.374	0.007	0.003		33.5	
Body	NR Band n70	15	QPSK	4b	94451	1:1	0.04	1702.50	340500	DFT-s-OFDM	0.0	12.90	11.59	1	1	Left	0	0.011	0.004	1.352	0.015	0.005		30.2	
Body	NR Band n70	15	QPSK	4b	94451	1:1	0.06	1702.50	340500	DFT-s-OFDM	0.0	12.90	11.52	36	22	Left	0	0.012	0.005	1.374	0.016	0.007		29.7	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																									
Spatial Peak																		Body							
1.6 W/kg (mw/g) averaged over 1 gram																									
Uncontrolled Exposure/General Population																									

10.22 NR Band n66 Standalone SAR

Table 10-61 Antenna 1

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n66	40	QPSK	1	F7951	1:1	0.01	1745.00	349000	DFT-s-OFDM	0.0	14.50	14.41	1	214	Back	0	0.959	0.405	1.021	0.979	0.414		13.6	
Body	NR Band n66	40	QPSK	1	F7951	1:1	0.03	1745.00	349000	DFT-s-OFDM	0.0	14.50	14.42	108	0	Back	0	0.945	0.402	1.019	0.963	0.410		13.6	
Body	NR Band n66	40	QPSK	1	F7951	1:1	-0.01	1745.00	349000	DFT-s-OFDM	0.0	14.50	14.40	216	0	Back	0	0.972	0.410	1.023	0.994	0.419	A22	13.5	
Body	NR Band n66	40	QPSK	1	F7951	1:1	-0.01	1745.00	349000	DFT-s-OFDM	0.0	14.50	14.40	216	0	Back	0	0.962	0.411	1.023	0.984	0.420		13.5	
Body	NR Band n66	40	QPSK	1	F7951	1:1	0.04	1745.00	349000	CP-OFDM	0.0	14.50	14.30	1	1	Back	0	0.936	0.392	1.047	0.980	0.410		13.6	
Body	NR Band n66	40	QPSK	1	F7951	1:1	0.02	1745.00	349000	DFT-s-OFDM	0.0	14.50	14.41	1	214	Top	0	0.000	0.000	1.021	0.000	0.000		53.4	
Body	NR Band n66	40	QPSK	1	F7951	1:1	0.08	1745.00	349000	DFT-s-OFDM	0.0	14.50	14.42	108	0	Top	0	0.000	0.000	1.019	0.000	0.000		53.4	
Body	NR Band n66	40	QPSK	1	F7951	1:1	0.03	1745.00	349000	DFT-s-OFDM	0.0	14.50	14.41	1	214	Bottom	0	0.495	0.199	1.021	0.505	0.203		16.4	
Body	NR Band n66	40	QPSK	1	F7951	1:1	0.02	1745.00	349000	DFT-s-OFDM	0.0	14.50	14.42	108	0	Bottom	0	0.580	0.230	1.019	0.591	0.234		15.8	
Body	NR Band n66	40	QPSK	1	F7951	1:1	0.03	1745.00	349000	DFT-s-OFDM	0.0	14.50	14.41	1	214	Right	0	0.011	0.005	1.021	0.011	0.005		33.0	
Body	NR Band n66	40	QPSK	1	F7951	1:1	-0.09	1745.00	349000	DFT-s-OFDM	0.0	14.50	14.42	108	0	Right	0	0.013	0.005	1.019	0.013	0.005		32.3	
Body	NR Band n66	40	QPSK	1	F7951	1:1	0.16	1745.00	349000	DFT-s-OFDM	0.0	14.50	14.41	1	214	Left	0	0.110	0.043	1.021	0.113	0.044		22.6	
Body	NR Band n66	40	QPSK	1	F7951	1:1	0.01	1745.00	349000	DFT-s-OFDM	0.0	14.50	14.42	108	0	Left	0	0.076	0.029	1.019	0.077	0.030		24.6	
ANSI/IEEE C55.1 1992 - SAFETY LIMIT Spatial Peak																		Body 1.6 W/kg (mW/g) averaged over 1 gram							
Uncontrolled Exposure/General Population																									

Note: Blue entry represents variability measurement

Table 10-62 Antenna 2b

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n66	40	QPSK	2b	F7951	1:1	-0.01	1745.00	349000	DFT-s-OFDM	0.0	13.20	12.28	1	1	Back	0	0.638	0.262	1.236	0.789	0.324		13.2	
Body	NR Band n66	40	QPSK	2b	F7951	1:1	0.04	1745.00	349000	DFT-s-OFDM	0.0	13.20	12.27	108	54	Back	0	0.666	0.272	1.239	0.825	0.337		13.0	
Body	NR Band n66	40	QPSK	2b	F7951	1:1	-0.03	1745.00	349000	DFT-s-OFDM	0.0	13.20	12.25	216	0	Back	0	0.679	0.275	1.245	0.845	0.342		12.9	
Body	NR Band n66	40	QPSK	2b	F7951	1:1	0.01	1745.00	349000	CP-OFDM	0.0	13.20	12.25	1	1	Back	0	0.627	0.259	1.245	0.781	0.322		13.3	
Body	NR Band n66	40	QPSK	2b	F7951	1:1	0.04	1745.00	349000	DFT-s-OFDM	0.0	13.20	12.28	1	1	Top	0	0.000	0.000	1.236	0.000	0.000		51.3	
Body	NR Band n66	40	QPSK	2b	F7951	1:1	0.01	1745.00	349000	DFT-s-OFDM	0.0	13.20	12.27	108	54	Top	0	0.000	0.000	1.239	0.000	0.000		51.3	
Body	NR Band n66	40	QPSK	2b	F7951	1:1	-0.02	1745.00	349000	DFT-s-OFDM	0.0	13.20	12.28	1	1	Bottom	0	0.593	0.222	1.236	0.733	0.274		13.5	
Body	NR Band n66	40	QPSK	2b	F7951	1:1	0.00	1745.00	349000	DFT-s-OFDM	0.0	13.20	12.27	108	54	Bottom	0	0.615	0.229	1.239	0.762	0.284		13.4	
Body	NR Band n66	40	QPSK	2b	F7951	1:1	0.06	1745.00	349000	DFT-s-OFDM	0.0	13.20	12.28	1	1	Right	0	0.028	0.012	1.236	0.035	0.015		26.8	
Body	NR Band n66	40	QPSK	2b	F7951	1:1	-0.07	1745.00	349000	DFT-s-OFDM	0.0	13.20	12.27	108	54	Right	0	0.032	0.014	1.239	0.040	0.017		26.2	
Body	NR Band n66	40	QPSK	2b	F7951	1:1	0.01	1745.00	349000	DFT-s-OFDM	0.0	13.20	12.28	1	1	Left	0	0.002	0.000	1.236	0.002	0.000		38.3	
Body	NR Band n66	40	QPSK	2b	F7951	1:1	0.04	1745.00	349000	DFT-s-OFDM	0.0	13.20	12.27	108	54	Left	0	0.002	0.000	1.239	0.002	0.000		38.2	
ANSI/IEEE C55.1 1992 - SAFETY LIMIT Spatial Peak																		Body 1.6 W/kg (mW/g) averaged over 1 gram							
Uncontrolled Exposure/General Population																									

Table 10-63 Antenna 3

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n66	40	QPSK	3	QK49K	1:1	-0.02	1745.00	349000	DFT-s-OFDM	0.0	16.10	15.47	1	214	Back	0	0.644	0.319	1.156	0.744	0.369		16.4	
Body	NR Band n66	40	QPSK	3	QK49K	1:1	0.02	1745.00	349000	DFT-s-OFDM	0.0	16.10	15.46	108	0	Back	0	0.651	0.323	1.159	0.755	0.374		16.3	
Body	NR Band n66	40	QPSK	3	QK49K	1:1	-0.01	1745.00	349000	DFT-s-OFDM	0.0	16.10	15.42	216	0	Back	0	0.642	0.318	1.169	0.750	0.372		16.3	
Body	NR Band n66	40	QPSK	3	QK49K	1:1	0.00	1745.00	349000	DFT-s-OFDM	0.0	16.10	15.47	1	214	Top	0	0.498	0.201	1.156	0.576	0.232		17.5	
Body	NR Band n66	40	QPSK	3	QK49K	1:1	0.00	1745.00	349000	DFT-s-OFDM	0.0	16.10	15.46	108	0	Top	0	0.520	0.212	1.159	0.603	0.246		17.3	
Body	NR Band n66	40	QPSK	3	QK49K	1:1	0.07	1745.00	349000	DFT-s-OFDM	0.0	16.10	15.47	1	214	Bottom	0	0.013	0.005	1.156	0.015	0.006		33.3	
Body	NR Band n66	40	QPSK	3	QK49K	1:1	0.07	1745.00	349000	DFT-s-OFDM	0.0	16.10	15.46	108	0	Bottom	0	0.011	0.004	1.159	0.013	0.005		34.0	
Body	NR Band n66	40	QPSK	3	QK49K	1:1	-0.04	1745.00	349000	DFT-s-OFDM	0.0	16.10	15.47	1	214	Right	0	0.828	0.346	1.156	0.957	0.400		15.3	
Body	NR Band n66	40	QPSK	3	QK49K	1:1	0.02	1745.00	349000	DFT-s-OFDM	0.0	16.10	15.46	108	0	Right	0	0.815	0.347	1.159	0.945	0.402		15.3	
Body	NR Band n66	40	QPSK	3	QK49K	1:1	0.00	1745.00	349000	DFT-s-OFDM	0.0	16.10	15.42	216	0	Right	0	0.850	0.353	1.169	0.994	0.413		15.1	
Body	NR Band n66	40	QPSK	3	QK49K	1:1	-0.01	1745.00	349000	DFT-s-OFDM	0.0	16.10	15.43	1	1	Right	0	0.849	0.361	1.167	0.990	0.421		15.1	
Body	NR Band n66	40	QPSK	3	QK49K	1:1	0.05	1745.00	349000	DFT-s-OFDM	0.0	16.10	15.47	1	214	Left	0	0.000	0.000	1.156	0.000	0.000		54.5	
Body	NR Band n66	40	QPSK	3	QK49K	1:1	0.01	1745.00	349000	DFT-s-OFDM	0.0	16.10	15.46	108	0	Left	0	0.000	0.000	1.159	0.000	0.000		54.4	
ANSI/IEEE C55.1 1992 - SAFETY LIMIT Spatial Peak																		Body 1.6 W/kg (mW/g) averaged over 1 gram							
Uncontrolled Exposure/General Population																									

Table 10-64 Antenna 4b

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n66	40	QPSK	4b	9445J	1:1	-0.05	1745.00	349000	DFT-s-OFDM	0.0	12.90	11.92	1	108	Back	0	0.510	0.213	1.253	0.639	0.267		13.8	
Body	NR Band n66	40	QPSK	4b	9445J	1:1	-0.17	1745.00	349000	DFT-s-OFDM	0.0	12.90	11.96	108	0	Back	0	0.452	0.191	1.242	0.561	0.237		14.4	
Body	NR Band n66	40	QPSK	4b	9445J	1:1	-0.04	1745.00	349000	DFT-s-OFDM	0.0	12.90	11.92	1	108	Top	0	0.702	0.262	1.253	0.880	0.328		12.4	
Body	NR Band n66	40	QPSK	4b	9445J	1:1	-0.02	1745.00	349000	DFT-s-OFDM	0.0	12.90	11.96	108	0	Top	0	0.680	0.244	1.242	0.745	0.278		13.2	
Body	NR Band n66	40	QPSK	4b	9445J	1:1	0.00	1745.00	349000	DFT-s-OFDM	0.0	12.90	11.91	216	0	Top	0	0.695	0.259	1.256	0.873	0.325		12.5	
Body	NR Band n66	40	QPSK	4b	9445J	1:1	-0.02	1745.00	349000	CP-OFDM	0.0	12.90	11.72	1	1	Top	0	0.626	0.232	1.312	0.821	0.304		12.7	
Body	NR Band n66	40	QPSK	4b	9445J	1:1	0.00	1745.00	349000	DFT-s-OFDM	0.0	12.90	11.92	1	108	Bottom	0	0.680	0.253	1.253	0.820	0.300		12.4	12.4
Body	NR Band n66	40	QPSK	4b	9445J	1:1	0.01	1745.00	349000	DFT-s-OFDM	0.0	12.90	11.96	108	0	Bottom	0	0.690	0.260	1.242	0.820	0.300		12.5	
Body	NR Band n66	40	QPSK	4b	9445J	1:1	0.05	1745.00	349000	DFT-s-OFDM	0.0	12.90	11.92	1	108	Right	0	0.002	0.000	1.253	0.003	0.000		37.9	
Body	NR Band n66	40	QPSK	4b	9445J	1:1	0.03	1745.00	349000	DFT-s-OFDM	0.0	12.90	11.96	108	0	Right	0	0.002	0.001	1.242	0.002	0.001		37.9	
Body	NR Band n66	40	QPSK	4b	9445J	1:1	0.02	1745.00	349000	DFT-s-OFDM	0.0	12.90	11.92	1	108	Left	0	0.017	0.008	1.253	0.021	0.010		28.6	
Body	NR Band n66	40	QPSK	4b	9445J	1:1	0.04	1745.00	349000	DFT-s-OFDM	0.0	12.90	11.96	108	0	Left	0	0.015	0.007	1.242	0.019	0.009		29.2	
ANSI/IEEE C63.1, IEC 61010-1 SAFETY LIMIT												Body													
Uncontrolled Exposure/General Population												1.6 W/kg (mW/g) averaged over 1 gram													

10.23 NR Band n25 Standalone SAR

Table 10-65 Antenna 1

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	PLimit [dBm]	Overall PLimit [dBm]
Body	NR Band n25	40	QPSK	1	F7951	1:1	0.00	1882.50	376500	DFT-s-OFDM	0.0	13.60	13.17	1	1	Back	0	0.756	0.328	1.104	0.835	0.362		13.4	
Body	NR Band n25	40	QPSK	1	F7951	1:1	-0.01	1882.50	376500	DFT-s-OFDM	0.0	13.60	13.13	108	0	Back	0	0.843	0.352	1.114	0.939	0.392		12.9	
Body	NR Band n25	40	QPSK	1	F7951	1:1	0.01	1882.50	376500	DFT-s-OFDM	0.0	13.60	13.04	216	0	Back	0	0.820	0.338	1.138	0.933	0.385		12.9	
Body	NR Band n25	40	QPSK	1	F7951	1:1	0.03	1882.50	376500	CP-OFDM	0.0	13.60	13.06	1	1	Back	0	0.843	0.344	1.132	0.954	0.389		12.8	
Body	NR Band n25	40	QPSK	1	F7951	1:1	0.08	1882.50	376500	DFT-s-OFDM	0.0	13.60	13.17	1	1	Top	0	0.000	0.000	1.104	0.000	0.000		52.2	
Body	NR Band n25	40	QPSK	1	F7951	1:1	0.03	1882.50	376500	DFT-s-OFDM	0.0	13.60	13.13	108	0	Top	0	0.000	0.000	1.114	0.000	0.000		52.1	
Body	NR Band n25	40	QPSK	1	F7951	1:1	0.03	1882.50	376500	DFT-s-OFDM	0.0	13.60	13.17	1	1	Bottom	0	0.419	0.166	1.104	0.463	0.183		15.9	
Body	NR Band n25	40	QPSK	1	F7951	1:1	-0.11	1882.50	376500	DFT-s-OFDM	0.0	13.60	13.13	108	0	Bottom	0	0.417	0.166	1.114	0.465	0.185		15.9	
Body	NR Band n25	40	QPSK	1	F7951	1:1	0.06	1882.50	376500	DFT-s-OFDM	0.0	13.60	13.17	1	1	Right	0	0.010	0.003	1.104	0.011	0.003		32.2	
Body	NR Band n25	40	QPSK	1	F7951	1:1	0.05	1882.50	376500	DFT-s-OFDM	0.0	13.60	13.13	108	0	Right	0	0.011	0.003	1.114	0.012	0.003		31.7	
Body	NR Band n25	40	QPSK	1	F7951	1:1	0.03	1882.50	376500	DFT-s-OFDM	0.0	13.60	13.17	1	1	Left	0	0.477	0.162	1.104	0.527	0.179		15.4	
Body	NR Band n25	40	QPSK	1	F7951	1:1	0.02	1882.50	376500	DFT-s-OFDM	0.0	13.60	13.13	108	0	Left	0	0.532	0.182	1.114	0.593	0.203		14.9	
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 10-66 Antenna 2b

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	PLimit [dBm]	Overall PLimit [dBm]
Body	NR Band n25	40	QPSK	2b	F7951	1:1	-0.06	1882.50	376500	DFT-s-OFDM	0.0	12.50	12.06	1	108	Back	0	0.837	0.345	1.109	0.928	0.383		11.8	
Body	NR Band n25	40	QPSK	2b	F7951	1:1	0.02	1882.50	376500	DFT-s-OFDM	0.0	12.50	12.06	108	54	Back	0	0.894	0.358	1.107	0.990	0.396	A23	11.5	
Body	NR Band n25	40	QPSK	2b	F7951	1:1	-0.06	1882.50	376500	DFT-s-OFDM	0.0	12.50	12.06	108	54	Back	0	0.775	0.322	1.107	0.858	0.356		12.1	
Body	NR Band n25	40	QPSK	2b	F7951	1:1	-0.07	1882.50	376500	DFT-s-OFDM	0.0	12.50	12.03	216	0	Back	0	0.884	0.359	1.114	0.985	0.400		11.5	
Body	NR Band n25	40	QPSK	2b	F7951	1:1	0.12	1882.50	376500	CP-OFDM	0.0	12.50	11.93	1	1	Back	0	0.871	0.352	1.140	0.993	0.401		11.5	
Body	NR Band n25	40	QPSK	2b	F7951	1:1	0.05	1882.50	376500	DFT-s-OFDM	0.0	12.50	12.05	1	108	Top	0	0.001	0.000	1.109	0.001	0.000		41.0	
Body	NR Band n25	40	QPSK	2b	F7951	1:1	0.03	1882.50	376500	DFT-s-OFDM	0.0	12.50	12.06	108	54	Top	0	0.002	0.000	1.107	0.002	0.000		38.0	
Body	NR Band n25	40	QPSK	2b	F7951	1:1	0.05	1882.50	376500	DFT-s-OFDM	0.0	12.50	12.05	1	108	Bottom	0	0.770	0.285	1.109	0.854	0.316		12.2	
Body	NR Band n25	40	QPSK	2b	F7951	1:1	0.00	1882.50	376500	DFT-s-OFDM	0.0	12.50	12.06	108	54	Bottom	0	0.787	0.288	1.107	0.871	0.319		12.1	
Body	NR Band n25	40	QPSK	2b	F7951	1:1	-0.08	1882.50	376500	DFT-s-OFDM	0.0	12.50	12.03	216	0	Bottom	0	0.798	0.290	1.114	0.889	0.323		12.0	
Body	NR Band n25	40	QPSK	2b	F7951	1:1	0.00	1882.50	376500	DFT-s-OFDM	0.0	12.50	12.05	1	108	Right	0	0.068	0.027	1.109	0.075	0.030		22.7	
Body	NR Band n25	40	QPSK	2b	F7951	1:1	0.02	1882.50	376500	DFT-s-OFDM	0.0	12.50	12.06	108	54	Right	0	0.014	0.000	1.107	0.082	0.033		22.3	
Body	NR Band n25	40	QPSK	2b	F7951	1:1	0.03	1882.50	376500	DFT-s-OFDM	0.0	12.50	12.05	1	108	Left	0	0.015	0.006	1.109	0.017	0.007		29.3	
Body	NR Band n25	40	QPSK	2b	F7951	1:1	0.02	1882.50	376500	DFT-s-OFDM	0.0	12.50	12.06	108	54	Left	0	0.025	0.010	1.107	0.028	0.011		27.1	
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 10-67 Antenna 3

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	P1mit [dBm]	Overall P1mit [dBm]
Body	NR Band n25	40	QPSK	3	QX003	1:1	0.00	1882.50	376500	DFT-s-OFDM	0.0	14.80	14.16	1	1	Back	0	0.636	0.307	1.159	0.737	0.356		15.1	
Body	NR Band n25	40	QPSK	3	QX003	1:1	0.00	1882.50	376500	DFT-s-OFDM	0.0	14.80	14.15	108	0	Back	0	0.652	0.313	1.161	0.757	0.363		15.0	
Body	NR Band n25	40	QPSK	3	QX003	1:1	-0.02	1882.50	376500	DFT-s-OFDM	0.0	14.80	14.06	216	0	Back	0	0.649	0.312	1.186	0.770	0.370		14.9	
Body	NR Band n25	40	QPSK	3	QX003	1:1	0.13	1882.50	376500	DFT-s-OFDM	0.0	14.80	14.16	1	1	Top	0	0.538	0.211	1.159	0.624	0.245		15.8	
Body	NR Band n25	40	QPSK	3	QX003	1:1	-0.09	1882.50	376500	DFT-s-OFDM	0.0	14.80	14.15	108	0	Top	0	0.547	0.212	1.161	0.635	0.246		15.8	
Body	NR Band n25	40	QPSK	3	QX003	1:1	0.07	1882.50	376500	DFT-s-OFDM	0.0	14.80	14.16	1	1	Bottom	0	0.014	0.006	1.159	0.016	0.007		31.7	
Body	NR Band n25	40	QPSK	3	QX003	1:1	0.02	1882.50	376500	DFT-s-OFDM	0.0	14.80	14.15	108	0	Bottom	0	0.011	0.004	1.161	0.013	0.005		32.7	
Body	NR Band n25	40	QPSK	3	QX003	1:1	0.00	1882.50	376500	DFT-s-OFDM	0.0	14.80	14.16	1	1	Right	0	0.715	0.302	1.159	0.829	0.350		14.6	
Body	NR Band n25	40	QPSK	3	QX003	1:1	-0.03	1882.50	376500	DFT-s-OFDM	0.0	14.80	14.15	108	0	Right	0	0.752	0.319	1.161	0.873	0.370		14.4	
Body	NR Band n25	40	QPSK	3	QX003	1:1	-0.02	1882.50	376500	DFT-s-OFDM	0.0	14.80	14.06	216	0	Right	0	0.773	0.327	1.186	0.917	0.388		14.2	
Body	NR Band n25	40	QPSK	3	QX003	1:1	-0.03	1882.50	376500	CP-OFDM	0.0	14.80	14.22	1	1	Right	0	0.713	0.302	1.143	0.815	0.345		14.7	
Body	NR Band n25	40	QPSK	3	QX003	1:1	0.06	1882.50	376500	DFT-s-OFDM	0.0	14.80	14.16	1	1	Left	0	0.000	0.000	1.159	0.000	0.000		53.1	
Body	NR Band n25	40	QPSK	3	QX003	1:1	0.04	1882.50	376500	DFT-s-OFDM	0.0	14.80	14.15	108	0	Left	0	0.000	0.000	1.161	0.000	0.000		53.1	
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 10-68 Antenna 4b

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	P1mit [dBm]	Overall P1mit [dBm]
Body	NR Band n25	40	QPSK	4b	4R6K6	1:1	-0.09	1882.50	376500	DFT-s-OFDM	0.0	12.30	11.02	1	108	Back	0	0.542	0.216	1.343	0.728	0.290		12.7	11.5
Body	NR Band n25	40	QPSK	4b	4R6K6	1:1	-0.03	1882.50	376500	DFT-s-OFDM	0.0	12.30	11.03	108	54	Back	0	0.555	0.221	1.340	0.784	0.296		12.6	
Body	NR Band n25	40	QPSK	4b	4R6K6	1:1	0.00	1882.50	376500	DFT-s-OFDM	0.0	12.30	11.02	1	108	Top	0	0.662	0.245	1.343	0.889	0.329		11.8	
Body	NR Band n25	40	QPSK	4b	4R6K6	1:1	0.00	1882.50	376500	DFT-s-OFDM	0.0	12.30	11.03	108	54	Top	0	0.668	0.247	1.340	0.895	0.331		11.8	
Body	NR Band n25	40	QPSK	4b	4R6K6	1:1	0.02	1882.50	376500	DFT-s-OFDM	0.0	12.30	11.00	216	0	Top	0	0.674	0.249	1.349	0.909	0.336		11.7	
Body	NR Band n25	40	QPSK	4b	4R6K6	1:1	0.00	1882.50	376500	CP-OFDM	0.0	12.30	10.76	1	1	Top	0	0.674	0.252	1.426	0.961	0.359		11.5	
Body	NR Band n25	40	QPSK	4b	4R6K6	1:1	0.07	1882.50	376500	DFT-s-OFDM	0.0	12.30	11.02	1	108	Bottom	0	0.000	0.000	1.343	0.000	0.000		50.0	
Body	NR Band n25	40	QPSK	4b	4R6K6	1:1	0.06	1882.50	376500	DFT-s-OFDM	0.0	12.30	11.03	108	54	Bottom	0	0.000	0.000	1.340	0.000	0.000		50.0	
Body	NR Band n25	40	QPSK	4b	4R6K6	1:1	0.06	1882.50	376500	DFT-s-OFDM	0.0	12.30	11.02	1	108	Right	0	0.005	0.002	1.343	0.007	0.003		33.0	
Body	NR Band n25	40	QPSK	4b	4R6K6	1:1	0.06	1882.50	376500	DFT-s-OFDM	0.0	12.30	11.03	108	54	Right	0	0.006	0.002	1.340	0.008	0.003		32.2	
Body	NR Band n25	40	QPSK	4b	4R6K6	1:1	0.08	1882.50	376500	DFT-s-OFDM	0.0	12.30	11.02	1	108	Left	0	0.042	0.018	1.343	0.056	0.024		23.8	
Body	NR Band n25	40	QPSK	4b	4R6K6	1:1	0.03	1882.50	376500	DFT-s-OFDM	0.0	12.30	11.03	108	54	Left	0	0.040	0.017	1.340	0.054	0.023		24.0	
ANSI/IEEE C63.1992 - SAFETY LIMIT																									
Spatial Peak																									
Uncontrolled Exposure/General Population																									
																		Body						1.6 W/kg (mW/1g)	
																		averaged over 1 gram							

10.24 NR Band n30 Standalone SAR

Table 10-69 Antenna 1

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Pilot #	Plimit [dBm]	Overall Plimit [dBm]	
Body	NR Band n30	10	QPSK	1	3Q4T0	1:1	-0.06	2310.00	462000	DFT-s-OFDM	0.0	15.80	14.59	1	1	Back	0	0.675	0.281	1.321	0.892	0.371		15.3	14.8	
Body	NR Band n30	10	QPSK	1	3Q4T0	1:1	0.00	2310.00	462000	DFT-s-OFDM	0.0	15.80	14.45	25	0	Back	0	0.708	0.293	1.365	0.966	0.400		14.9		
Body	NR Band n30	10	QPSK	1	3Q4T0	1:1	-0.02	2310.00	462000	DFT-s-OFDM	0.0	15.80	14.37	50	0	Back	0	0.702	0.292	1.390	0.976	0.406		14.9		
Body	NR Band n30	10	QPSK	1	3Q4T0	1:1	0.01	2310.00	462000	DFT-s-OFDM	0.0	15.80	14.59	1	1	Top	0	0.006	0.003	1.321	0.008	0.004		35.8		
Body	NR Band n30	10	QPSK	1	3Q4T0	1:1	0.07	2310.00	462000	DFT-s-OFDM	0.0	15.80	14.45	25	0	Top	0	0.004	0.001	1.365	0.005	0.001		37.4		
Body	NR Band n30	10	QPSK	1	3Q4T0	1:1	-0.04	2310.00	462000	DFT-s-OFDM	0.0	15.80	14.59	1	1	Bottom	0	0.694	0.265	1.321	0.917	0.350		15.2		
Body	NR Band n30	10	QPSK	1	3Q4T0	1:1	0.05	2310.00	462000	DFT-s-OFDM	0.0	15.80	14.45	25	0	Bottom	0	0.703	0.268	1.365	0.960	0.366		15.0		
Body	NR Band n30	10	QPSK	1	3Q4T0	1:1	0.00	2310.00	462000	DFT-s-OFDM	0.0	15.80	14.37	50	0	Bottom	0	0.715	0.271	1.390	0.994	0.377		14.8		
Body	NR Band n30	10	QPSK	1	3Q4T0	1:1	0.02	2310.00	462000	CP-OFDM	0.0	15.80	14.60	1	1	Bottom	0	0.682	0.258	1.318	0.899	0.340		15.2		
Body	NR Band n30	10	QPSK	1	3Q4T0	1:1	0.09	2310.00	462000	DFT-s-OFDM	0.0	15.80	14.59	1	1	Right	0	0.012	0.005	1.321	0.016	0.007		32.8		
Body	NR Band n30	10	QPSK	1	3Q4T0	1:1	0.00	2310.00	462000	DFT-s-OFDM	0.0	15.80	14.45	25	0	Right	0	0.012	0.005	1.365	0.016	0.007		32.6		
Body	NR Band n30	10	QPSK	1	3Q4T0	1:1	-0.05	2310.00	462000	DFT-s-OFDM	0.0	15.80	14.59	1	1	Left	0	0.681	0.263	1.321	0.900	0.347		15.2		
Body	NR Band n30	10	QPSK	1	3Q4T0	1:1	0.04	2310.00	462000	DFT-s-OFDM	0.0	15.80	14.45	25	0	Left	0	0.687	0.262	1.365	0.938	0.358		15.1		
Body	NR Band n30	10	QPSK	1	3Q4T0	1:1	0.00	2310.00	462000	DFT-s-OFDM	0.0	15.80	14.37	50	0	Left	0	0.629	0.243	1.390	0.874	0.338		15.4		
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 10-70 Antenna 2b

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Pilot #	Plimit [dBm]	Overall Plimit [dBm]	
Body	NR Band n30	10	QPSK	2b	3Q4T0	1:1	0.00	2310.00	462000	DFT-s-OFDM	0.0	12.50	11.46	1	26	Back	0	0.757	0.294	1.271	0.962	0.374		11.6		
Body	NR Band n30	10	QPSK	2b	3Q4T0	1:1	0.00	2310.00	462000	DFT-s-OFDM	0.0	12.50	11.40	25	14	Back	0	0.746	0.291	1.288	0.961	0.375		11.7		
Body	NR Band n30	10	QPSK	2b	3Q4T0	1:1	0.00	2310.00	462000	DFT-s-OFDM	0.0	12.50	11.35	50	0	Back	0	0.730	0.286	1.303	0.951	0.373		11.7		
Body	NR Band n30	10	QPSK	2b	3Q4T0	1:1	-0.02	2310.00	462000	CP-OFDM	0.0	12.50	11.47	1	1	Back	0	0.783	0.348	1.268	0.999	0.385	A24	11.5		
Body	NR Band n30	10	QPSK	2b	3Q4T0	1:1	0.01	2310.00	462000	DFT-s-OFDM	0.0	12.50	11.46	1	26	Top	0	0.004	0.000	1.271	0.005	0.000		34.4		
Body	NR Band n30	10	QPSK	2b	3Q4T0	1:1	0.01	2310.00	462000	DFT-s-OFDM	0.0	12.50	11.40	25	14	Top	0	0.004	0.000	1.288	0.005	0.000		34.4		
Body	NR Band n30	10	QPSK	2b	3Q4T0	1:1	0.00	2310.00	462000	DFT-s-OFDM	0.0	12.50	11.46	1	26	Bottom	0	0.734	0.270	1.271	0.933	0.343		11.8	11.5	
Body	NR Band n30	10	QPSK	2b	3Q4T0	1:1	0.11	2310.00	462000	DFT-s-OFDM	0.0	12.50	11.40	25	14	Bottom	0	0.739	0.272	1.288	0.952	0.350		11.7		
Body	NR Band n30	10	QPSK	2b	3Q4T0	1:1	-0.01	2310.00	462000	DFT-s-OFDM	0.0	12.50	11.35	50	0	Bottom	0	0.722	0.267	1.303	0.941	0.348		11.7		
Body	NR Band n30	10	QPSK	2b	3Q4T0	1:1	0.08	2310.00	462000	DFT-s-OFDM	0.0	12.50	11.46	1	26	Right	0	0.034	0.015	1.271	0.043	0.019		25.1		
Body	NR Band n30	10	QPSK	2b	3Q4T0	1:1	-0.09	2310.00	462000	DFT-s-OFDM	0.0	12.50	11.40	25	14	Right	0	0.034	0.015	1.288	0.044	0.019		25.1		
Body	NR Band n30	10	QPSK	2b	3Q4T0	1:1	0.20	2310.00	462000	DFT-s-OFDM	0.0	12.50	11.46	1	26	Left	0	0.048	0.019	1.271	0.061	0.024		23.6		
Body	NR Band n30	10	QPSK	2b	3Q4T0	1:1	0.19	2310.00	462000	DFT-s-OFDM	0.0	12.50	11.40	25	14	Left	0	0.046	0.018	1.288	0.059	0.023		23.8		
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 10-71 Antenna 3

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Pilot #	Plimit [dBm]	Overall Plimit [dBm]	
Body	NR Band n30	10	QPSK	3	4MG2C	1:1	0.03	2310.00	462000	DFT-s-OFDM	0.0	13.10	12.06	1	26	Back	0	0.709	0.261	1.271	0.901	0.332		12.5		
Body	NR Band n30	10	QPSK	3	4MG2C	1:1	-0.05	2310.00	462000	DFT-s-OFDM	0.0	13.10	12.07	25	14	Back	0	0.691	0.254	1.268	0.876	0.322		12.7		
Body	NR Band n30	10	QPSK	3	4MG2C	1:1	-0.06	2310.00	462000	DFT-s-OFDM	0.0	13.10	12.02	50	0	Back	0	0.668	0.247	1.282	0.856	0.317		12.8		
Body	NR Band n30	10	QPSK	3	4MG2C	1:1	-0.12	2310.00	462000	CP-OFDM	0.0	13.10	12.18	1	1	Back	0	0.695	0.257	1.236	0.859	0.318		12.7		
Body	NR Band n30	10	QPSK	3	4MG2C	1:1	0.00	2310.00	462000	DFT-s-OFDM	0.0	13.10	12.06	1	26	Top	0	0.453	0.161	1.271	0.576	0.205		14.5		
Body	NR Band n30	10	QPSK	3	4MG2C	1:1	0.00	2310.00	462000	DFT-s-OFDM	0.0	13.10	12.07	25	14	Top	0	0.451	0.160	1.268	0.572	0.203		14.5		
Body	NR Band n30	10	QPSK	3	4MG2C	1:1	0.08	2310.00	462000	DFT-s-OFDM	0.0	13.10	12.06	1	26	Bottom	0	0.000	0.000	1.271	0.000	0.000		51.0		
Body	NR Band n30	10	QPSK	3	4MG2C	1:1	0.09	2310.00	462000	DFT-s-OFDM	0.0	13.10	12.07	25	14	Bottom	0	0.000	0.000	1.268	0.000	0.000		51.1		
Body	NR Band n30	10	QPSK	3	4MG2C	1:1	0.12	2310.00	462000	DFT-s-OFDM	0.0	13.10	12.06	1	26	Right	0	0.100	0.034	1.271	0.127	0.043		21.0		
Body	NR Band n30	10	QPSK	3	4MG2C	1:1	-0.06	2310.00	462000	DFT-s-OFDM	0.0	13.10	12.07	25	14	Right	0	0.105	0.035	1.268	0.133	0.044		20.8		
Body	NR Band n30	10	QPSK	3	4MG2C	1:1	0.07	2310.00	462000	DFT-s-OFDM	0.0	13.10	12.06	1	26	Left	0	0.011	0.004	1.271	0.014	0.005		30.6		
Body	NR Band n30	10	QPSK	3	4MG2C	1:1	0.16	2310.00	462000	DFT-s-OFDM	0.0	13.10	12.07	25	14	Left	0	0.014	0.006	1.268	0.018	0.008		29.6		
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 10-72 Antenna 4b

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Pilot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n30	10	QPSK	4b	LQJDP	1:1	-0.06	2310.00	462000	DFT-s-OFDM	0.0	12.00	11.17	1	1	Back	0	0.338	0.141	1.211	0.409	0.171		14.9	11.5
Body	NR Band n30	10	QPSK	4b	LQJDP	1:1	-0.07	2310.00	462000	DFT-s-OFDM	0.0	12.00	11.15	25	14	Back	0	0.399	0.163	1.216	0.485	0.198		14.1	
Body	NR Band n30	10	QPSK	4b	LQJDP	1:1	-0.18	2310.00	462000	DFT-s-OFDM	0.0	12.00	11.17	1	1	Top	0	0.725	0.262	1.211	0.878	0.317		11.5	
Body	NR Band n30	10	QPSK	4b	LQJDP	1:1	-0.06	2310.00	462000	DFT-s-OFDM	0.0	12.00	11.15	25	14	Top	0	0.702	0.253	1.216	0.854	0.308		11.7	
Body	NR Band n30	10	QPSK	4b	LQJDP	1:1	-0.01	2310.00	462000	DFT-s-OFDM	0.0	12.00	11.10	50	0	Top	0	0.704	0.253	1.230	0.866	0.311		11.6	
Body	NR Band n30	10	QPSK	4b	LQJDP	1:1	-0.07	2310.00	462000	CP-OFDM	0.0	12.00	11.18	1	1	Top	0	0.719	0.259	1.208	0.869	0.313		11.6	
Body	NR Band n30	10	QPSK	4b	LQJDP	1:1	0.02	2310.00	462000	DFT-s-OFDM	0.0	12.00	11.17	1	1	Bottom	0	0.000	0.000	1.211	0.000	0.000		50.2	
Body	NR Band n30	10	QPSK	4b	LQJDP	1:1	0.04	2310.00	462000	DFT-s-OFDM	0.0	12.00	11.15	25	14	Bottom	0	0.000	0.000	1.216	0.000	0.000		50.1	
Body	NR Band n30	10	QPSK	4b	LQJDP	1:1	0.06	2310.00	462000	DFT-s-OFDM	0.0	12.00	11.17	1	1	Right	0	0.014	0.006	1.211	0.017	0.006		28.7	
Body	NR Band n30	10	QPSK	4b	LQJDP	1:1	0.09	2310.00	462000	DFT-s-OFDM	0.0	12.00	11.15	25	14	Right	0	0.015	0.006	1.216	0.018	0.007		28.4	
Body	NR Band n30	10	QPSK	4b	LQJDP	1:1	-0.07	2310.00	462000	DFT-s-OFDM	0.0	12.00	11.17	1	1	Left	0	0.022	0.010	1.211	0.027	0.012		26.7	
Body	NR Band n30	10	QPSK	4b	LQJDP	1:1	-0.10	2310.00	462000	DFT-s-OFDM	0.0	12.00	11.15	25	14	Left	0	0.021	0.010	1.216	0.028	0.012		26.9	
ANSI/IEEE C63.1-1992 SAFETY LIMIT																								Body	
Spatial Peak																								1.6 W/kg (mW/g)	
Uncontrolled Exposure/General Population																								averaged over 1 gram	

10.25 NR Band n7 Standalone SAR

Table 10-73 Antenna 1

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n7	40	QPSK	1	WJY6P	1:1	0.02	2535.00	507000	DFT-s-OFDM	0.0	14.00	13.11	1	108	Back	0	0.805	0.256	1.227	0.988	0.314		13.0	13.0
Body	NR Band n7	40	QPSK	1	WJY6P	1:1	-0.05	2535.00	507000	DFT-s-OFDM	0.0	14.00	13.12	108	0	Back	0	0.830	0.257	1.225	0.992	0.315		13.0	
Body	NR Band n7	40	QPSK	1	WJY6P	1:1	0.00	2535.00	507000	DFT-s-OFDM	0.0	14.00	13.02	216	0	Back	0	0.781	0.248	1.253	0.979	0.311		13.1	
Body	NR Band n7	40	QPSK	1	WJY6P	1:1	-0.07	2535.00	507000	CP-OFDM	0.0	14.00	13.13	1	1	Back	0	0.773	0.247	1.222	0.945	0.302		13.2	
Body	NR Band n7	40	QPSK	1	WJY6P	1:1	0.01	2535.00	507000	DFT-s-OFDM	0.0	14.00	13.11	1	108	Top	0	0.000	0.000	1.227	0.000	0.000		52.1	
Body	NR Band n7	40	QPSK	1	WJY6P	1:1	0.08	2535.00	507000	DFT-s-OFDM	0.0	14.00	13.12	108	0	Top	0	0.000	0.000	1.225	0.000	0.000		52.1	
Body	NR Band n7	40	QPSK	1	WJY6P	1:1	-0.08	2535.00	507000	DFT-s-OFDM	0.0	14.00	13.11	1	108	Bottom	0	0.769	0.271	1.227	0.944	0.333		13.2	
Body	NR Band n7	40	QPSK	1	WJY6P	1:1	-0.02	2535.00	507000	DFT-s-OFDM	0.0	14.00	13.12	108	0	Bottom	0	0.795	0.280	1.225	0.974	0.343		13.1	
Body	NR Band n7	40	QPSK	1	WJY6P	1:1	-0.04	2535.00	507000	DFT-s-OFDM	0.0	14.00	13.02	216	0	Bottom	0	0.778	0.273	1.253	0.975	0.342		13.1	
Body	NR Band n7	40	QPSK	1	WJY6P	1:1	0.01	2535.00	507000	DFT-s-OFDM	0.0	14.00	13.11	1	108	Right	0	0.029	0.012	1.227	0.036	0.015		27.5	
Body	NR Band n7	40	QPSK	1	WJY6P	1:1	-0.16	2535.00	507000	DFT-s-OFDM	0.0	14.00	13.12	108	0	Right	0	0.026	0.010	1.225	0.032	0.012		28.0	
Body	NR Band n7	40	QPSK	1	WJY6P	1:1	-0.06	2535.00	507000	DFT-s-OFDM	0.0	14.00	13.11	1	108	Left	0	0.232	0.071	1.227	0.279	0.085		18.5	
Body	NR Band n7	40	QPSK	1	WJY6P	1:1	-0.02	2535.00	507000	DFT-s-OFDM	0.0	14.00	13.12	108	0	Left	0	0.240	0.074	1.225	0.294	0.091		18.3	
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 10-74 Antenna 2b

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]	
Body	NR Band n7	40	QPSK	2b	2WJ0Q	1:1	-0.04	2535.00	507000	DFT-s-OFDM	0.0	12.10	11.15	1	1	Back	0	0.669	0.237	1.245	0.833	0.295		11.9		
Body	NR Band n7	40	QPSK	2b	2WJ0Q	1:1	-0.02	2535.00	507000	DFT-s-OFDM	0.0	12.10	11.12	108	0	Back	0	0.687	0.240	1.253	0.861	0.301		11.7		
Body	NR Band n7	40	QPSK	2b	2WJ0Q	1:1	-0.07	2535.00	507000	DFT-s-OFDM	0.0	12.10	11.04	216	0	Back	0	0.663	0.235	1.276	0.846	0.300		11.8		
Body	NR Band n7	40	QPSK	2b	2WJ0Q	1:1	0.03	2535.00	507000	DFT-s-OFDM	0.0	12.10	11.15	1	1	Top	0	0.000	0.000	1.245	0.000	0.000		50.1		
Body	NR Band n7	40	QPSK	2b	2WJ0Q	1:1	0.05	2535.00	507000	DFT-s-OFDM	0.0	12.10	11.12	108	0	Top	0	0.000	0.000	1.253	0.000	0.000		50.1		
Body	NR Band n7	40	QPSK	2b	2WJ0Q	1:1	0.06	2535.00	507000	DFT-s-OFDM	0.0	12.10	11.15	1	1	Bottom	0	0.794	0.259	1.245	0.989	0.322		11.1		
Body	NR Band n7	40	QPSK	2b	2WJ0Q	1:1	-0.01	2535.00	507000	DFT-s-OFDM	0.0	12.10	11.12	108	0	Bottom	0	0.769	0.251	1.253	0.964	0.315		11.2	11.1	
Body	NR Band n7	40	QPSK	2b	2WJ0Q	1:1	-0.02	2535.00	507000	DFT-s-OFDM	0.0	12.10	11.04	216	0	Bottom	0	0.777	0.253	1.276	0.991	0.323		11.1		
Body	NR Band n7	40	QPSK	2b	2WJ0Q	1:1	-0.01	2535.00	507000	CP-OFDM	0.0	12.10	11.13	1	1	Bottom	0	0.790	0.256	1.250	0.988	0.320		11.1		
Body	NR Band n7	40	QPSK	2b	2WJ0Q	1:1	-0.17	2535.00	507000	DFT-s-OFDM	0.0	12.10	11.15	1	1	Right	0	0.028	0.011	1.245	0.035	0.014		25.7		
Body	NR Band n7	40	QPSK	2b	2WJ0Q	1:1	0.19	2535.00	507000	DFT-s-OFDM	0.0	12.10	11.12	108	0	Right	0	0.052	0.013	1.253	0.040	0.016		25.0		
Body	NR Band n7	40	QPSK	2b	2WJ0Q	1:1	0.17	2535.00	507000	DFT-s-OFDM	0.0	12.10	11.15	1	1	Left	0	0.046	0.015	1.245	0.057	0.019		23.5		
Body	NR Band n7	40	QPSK	2b	2WJ0Q	1:1	-0.09	2535.00	507000	DFT-s-OFDM	0.0	12.10	11.12	108	0	Left	0	0.045	0.015	1.253	0.056	0.019		23.6		
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 10-75 Antenna 3

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n7	40	QPSK	3	LQJDP	1:1	-0.03	2535.00	507000	DFT-s-OFDM	0.0	13.20	12.02	1	108	Back	0	0.626	0.202	1.312	0.821	0.265		13.0	12.5
Body	NR Band n7	40	QPSK	3	LQJDP	1:1	-0.04	2535.00	507000	DFT-s-OFDM	0.0	13.20	11.94	108	0	Back	0	0.586	0.189	1.337	0.783	0.253		13.2	
Body	NR Band n7	40	QPSK	3	LQJDP	1:1	0.01	2535.00	507000	DFT-s-OFDM	0.0	13.20	11.87	216	0	Back	0	0.689	0.223	1.358	0.936	0.303		12.5	
Body	NR Band n7	40	QPSK	3	LQJDP	1:1	-0.01	2535.00	507000	CP-OFDM	0.0	13.20	12.02	1	1	Back	0	0.547	0.179	1.312	0.718	0.235		13.6	
Body	NR Band n7	40	QPSK	3	LQJDP	1:1	0.07	2535.00	507000	DFT-s-OFDM	0.0	13.20	12.02	1	108	Top	0	0.328	0.112	1.312	0.430	0.147		15.8	
Body	NR Band n7	40	QPSK	3	LQJDP	1:1	0.00	2535.00	507000	DFT-s-OFDM	0.0	13.20	11.94	108	0	Top	0	0.328	0.112	1.337	0.439	0.150		15.8	
Body	NR Band n7	40	QPSK	3	LQJDP	1:1	0.02	2535.00	507000	DFT-s-OFDM	0.0	13.20	12.02	1	108	Bottom	0	0.000	0.000	1.312	0.000	0.000		51.0	
Body	NR Band n7	40	QPSK	3	LQJDP	1:1	0.00	2535.00	507000	DFT-s-OFDM	0.0	13.20	11.94	108	0	Bottom	0	0.000	0.000	1.337	0.000	0.000		50.0	
Body	NR Band n7	40	QPSK	3	LQJDP	1:1	-0.01	2535.00	507000	DFT-s-OFDM	0.0	13.20	12.02	1	108	Right	0	0.252	0.090	1.312	0.331	0.118		17.0	
Body	NR Band n7	40	QPSK	3	LQJDP	1:1	-0.01	2535.00	507000	DFT-s-OFDM	0.0	13.20	11.94	108	0	Right	0	0.237	0.086	1.337	0.317	0.115		17.2	
Body	NR Band n7	40	QPSK	3	LQJDP	1:1	0.06	2535.00	507000	DFT-s-OFDM	0.0	13.20	12.02	1	108	Left	0	0.027	0.010	1.312	0.035	0.013		26.7	
Body	NR Band n7	40	QPSK	3	LQJDP	1:1	0.07	2535.00	507000	DFT-s-OFDM	0.0	13.20	11.94	108	0	Left	0	0.024	0.009	1.337	0.032	0.012		27.1	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																		1.6 W/kg (mW/g) averaged over 1 gram							
Spatial Peak																									
Uncontrolled Exposure/General Population																									

Table 10-76 Antenna 4b

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n7	40	QPSK	4b	2WJ0Q	1:1	-0.04	2535.00	507000	DFT-s-OFDM	0.0	11.10	10.49	1	1	Back	0	0.483	0.179	1.151	0.556	0.206		12.6	10.1
Body	NR Band n7	40	QPSK	4b	2WJ0Q	1:1	-0.01	2535.00	507000	DFT-s-OFDM	0.0	11.10	10.41	108	0	Back	0	0.502	0.182	1.172	0.588	0.213		12.4	
Body	NR Band n7	40	QPSK	4b	2WJ0Q	1:1	-0.02	2535.00	507000	DFT-s-OFDM	0.0	11.10	10.49	1	1	Top	0	0.863	0.287	1.151	0.993	0.330	A25	10.1	
Body	NR Band n7	40	QPSK	4b	2WJ0Q	1:1	0.01	2535.00	507000	DFT-s-OFDM	0.0	11.10	10.41	108	0	Top	0	0.844	0.280	1.172	0.989	0.328		10.1	
Body	NR Band n7	40	QPSK	4b	2WJ0Q	1:1	-0.04	2535.00	507000	DFT-s-OFDM	0.0	11.10	10.38	216	0	Top	0	0.840	0.281	1.180	0.991	0.332		10.1	
Body	NR Band n7	40	QPSK	4b	2WJ0Q	1:1	0.01	2535.00	507000	CP-OFDM	0.0	11.10	10.53	1	1	Top	0	0.826	0.278	1.140	0.942	0.317		10.3	
Body	NR Band n7	40	QPSK	4b	2WJ0Q	1:1	-0.01	2535.00	507000	DFT-s-OFDM	0.0	11.10	10.49	1	1	Bottom	0	0.000	0.000	1.151	0.000	0.000		49.5	
Body	NR Band n7	40	QPSK	4b	2WJ0Q	1:1	0.05	2535.00	507000	DFT-s-OFDM	0.0	11.10	10.41	108	0	Bottom	0	0.000	0.000	1.172	0.000	0.000		49.4	
Body	NR Band n7	40	QPSK	4b	2WJ0Q	1:1	0.01	2535.00	507000	DFT-s-OFDM	0.0	11.10	10.49	1	1	Right	0	0.019	0.006	1.151	0.022	0.007		26.7	
Body	NR Band n7	40	QPSK	4b	2WJ0Q	1:1	0.08	2535.00	507000	DFT-s-OFDM	0.0	11.10	10.41	108	0	Right	0	0.015	0.005	1.172	0.018	0.006		27.6	
Body	NR Band n7	40	QPSK	4b	2WJ0Q	1:1	0.06	2535.00	507000	DFT-s-OFDM	0.0	11.10	10.49	1	1	Left	0	0.017	0.007	1.151	0.020	0.008		27.2	
Body	NR Band n7	40	QPSK	4b	2WJ0Q	1:1	-0.03	2535.00	507000	DFT-s-OFDM	0.0	11.10	10.41	108	0	Left	0	0.022	0.008	1.172	0.026	0.009		26.0	
ANSI/IEEE CS1.192 - SAFETY LIMIT																									
Spatial Peak																									
Uncontrolled Exposure/General Population																									
1.6 W/kg [mW/g] averaged over 1 gram																									

10.26 NR Band n41 Standalone SAR

Table 10-77 Antenna 1

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n41	100	QPSK	1	4MG2C	1:1	-0.02	2592.99	518598	DFT-s-OFDM	0.0	14.00	13.39	1	137	Back	0	0.861	0.272	1.151	0.991	0.313		13.0	
Body	NR Band n41	100	QPSK	1	4MG2C	1:1	-0.02	2592.99	518598	DFT-s-OFDM	0.0	14.00	13.40	135	69	Back	0	0.843	0.267	1.148	0.968	0.307		13.1	
Body	NR Band n41	100	QPSK	1	4MG2C	1:1	0.00	2592.99	518598	DFT-s-OFDM	0.0	14.00	13.35	270	0	Back	0	0.846	0.265	1.161	0.982	0.308		13.1	
Body	NR Band n41	100	QPSK	1	4MG2C	1:1	0.01	2592.99	518598	CP-OFDM	0.0	14.00	13.08	1	1	Back	0	0.800	0.253	1.236	0.989	0.313		13.0	
Body	NR Band n41	100	QPSK	1	4MG2C	1:1	0.01	2592.99	518598	DFT-s-OFDM	0.0	14.00	13.39	1	137	Top	0	0.000	0.000	1.151	0.000	0.000		52.4	
Body	NR Band n41	100	QPSK	1	4MG2C	1:1	0.08	2592.99	518598	DFT-s-OFDM	0.0	14.00	13.40	135	69	Top	0	0.000	0.000	1.148	0.000	0.000		52.4	
Body	NR Band n41	100	QPSK	1	4MG2C	1:1	0.02	2592.99	518598	DFT-s-OFDM	0.0	14.00	13.39	1	137	Bottom	0	0.795	0.275	1.151	0.915	0.317		13.4	13.0
Body	NR Band n41	100	QPSK	1	4MG2C	1:1	-0.05	2592.99	518598	DFT-s-OFDM	0.0	14.00	13.40	135	69	Bottom	0	0.795	0.274	1.148	0.913	0.315		13.4	
Body	NR Band n41	100	QPSK	1	4MG2C	1:1	-0.05	2592.99	518598	DFT-s-OFDM	0.0	14.00	13.35	270	0	Bottom	0	0.800	0.274	1.161	0.929	0.318		13.3	
Body	NR Band n41	100	QPSK	1	4MG2C	1:1	0.07	2592.99	518598	DFT-s-OFDM	0.0	14.00	13.39	1	137	Right	0	0.057	0.021	1.151	0.066	0.024		24.8	
Body	NR Band n41	100	QPSK	1	4MG2C	1:1	0.03	2592.99	518598	DFT-s-OFDM	0.0	14.00	13.40	135	69	Right	0	0.056	0.021	1.148	0.064	0.024		24.9	
Body	NR Band n41	100	QPSK	1	4MG2C	1:1	0.00	2592.99	518598	DFT-s-OFDM	0.0	14.00	13.39	1	137	Left	0	0.225	0.069	1.151	0.259	0.079		18.8	
Body	NR Band n41	100	QPSK	1	4MG2C	1:1	0.05	2592.99	518598	DFT-s-OFDM	0.0	14.00	13.40	135	69	Left	0	0.225	0.068	1.148	0.258	0.078		18.9	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																		Body 1.6 W/kg (mW/g) averaged over 1 gram							

Table 10-78 Antenna 2b

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n41	100	QPSK	2b	9445I	1:1	-0.03	2592.99	518598	DFT-s-OFDM	0.0	12.00	10.97	1	137	Back	0	0.572	0.201	1.268	0.725	0.255		12.4	
Body	NR Band n41	100	QPSK	2b	9445I	1:1	-0.06	2592.99	518598	DFT-s-OFDM	0.0	12.00	11.04	135	69	Back	0	0.576	0.200	1.247	0.718	0.249		12.4	
Body	NR Band n41	100	QPSK	2b	9445I	1:1	-0.02	2592.99	518598	DFT-s-OFDM	0.0	12.00	10.96	270	0	Back	0	0.567	0.197	1.271	0.721	0.250		12.4	
Body	NR Band n41	100	QPSK	2b	9445I	1:1	0.09	2592.99	518598	DFT-s-OFDM	0.0	12.00	10.97	1	137	Top	0	0.000	0.000	1.268	0.000	0.000		50.0	
Body	NR Band n41	100	QPSK	2b	9445I	1:1	0.01	2592.99	518598	DFT-s-OFDM	0.0	12.00	11.04	135	69	Top	0	0.000	0.000	1.247	0.000	0.000		50.0	
Body	NR Band n41	100	QPSK	2b	9445I	1:1	-0.04	2592.99	518598	DFT-s-OFDM	0.0	12.00	10.97	1	137	Bottom	0	0.718	0.234	1.268	0.910	0.297		11.4	
Body	NR Band n41	100	QPSK	2b	9445I	1:1	0.02	2592.99	518598	DFT-s-OFDM	0.0	12.00	11.04	135	69	Bottom	0	0.709	0.232	1.247	0.884	0.289		11.5	
Body	NR Band n41	100	QPSK	2b	9445I	1:1	0.06	2592.99	518598	DFT-s-OFDM	0.0	12.00	10.96	270	0	Bottom	0	0.719	0.235	1.271	0.914	0.299		11.4	11.0
Body	NR Band n41	100	QPSK	2b	9445I	1:1	-0.03	2592.99	518598	CP-OFDM	0.0	12.00	10.89	1	1	Bottom	0	0.770	0.253	1.291	0.994	0.327		11.0	
Body	NR Band n41	100	QPSK	2b	9445I	1:1	0.06	2592.99	518598	DFT-s-OFDM	0.0	12.00	10.97	1	137	Right	0	0.035	0.013	1.268	0.044	0.016		24.5	
Body	NR Band n41	100	QPSK	2b	9445I	1:1	-0.12	2592.99	518598	DFT-s-OFDM	0.0	12.00	11.04	135	69	Right	0	0.031	0.011	1.247	0.039	0.014		25.1	
Body	NR Band n41	100	QPSK	2b	9445I	1:1	0.11	2592.99	518598	DFT-s-OFDM	0.0	12.00	10.97	1	137	Left	0	0.018	0.007	1.268	0.023	0.009		27.4	
Body	NR Band n41	100	QPSK	2b	9445I	1:1	-0.17	2592.99	518598	DFT-s-OFDM	0.0	12.00	11.04	135	69	Left	0	0.018	0.007	1.247	0.022	0.009		27.5	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																		Body 1.6 W/kg (mW/g) averaged over 1 gram							

Table 10-79 Antenna 3

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n41	100	QPSK	3	JCRXN	1:1	0.03	2592.99	518598	DFT-s-OFDM	0.0	11.90	11.72	1	1	Back	0	0.749	0.242	1.042	0.780	0.252		12.0	
Body	NR Band n41	100	QPSK	3	JCRXN	1:1	0.00	2592.99	518598	DFT-s-OFDM	0.0	11.90	11.69	135	138	Back	0	0.946	0.299	1.050	0.993	0.314	A26	10.9	
Body	NR Band n41	100	QPSK	3	JCRXN	1:1	0.03	2592.99	518598	CP-OFDM	0.0	11.90	11.65	270	0	Back	0	0.946	0.299	1.050	0.993	0.314		10.9	
Body	NR Band n41	100	QPSK	3	JCRXN	1:1	0.03	2592.99	518598	DFT-s-OFDM	0.0	11.90	11.65	270	0	Back	0	0.870	0.277	1.095	0.921	0.291		11.2	
Body	NR Band n41	100	QPSK	3	JCRXN	1:1	-0.04	2592.99	518598	CP-OFDM	0.0	11.90	11.70	1	1	Back	0	0.707	0.228	1.047	0.740	0.239		12.2	
Body	NR Band n41	100	QPSK	3	JCRXN	1:1	-0.05	2592.99	518598	DFT-s-OFDM	0.0	11.90	11.72	1	1	Top	0	0.385	0.130	1.042	0.401	0.135		14.8	
Body	NR Band n41	100	QPSK	3	JCRXN	1:1	0.06	2592.99	518598	DFT-s-OFDM	0.0	11.90	11.69	135	138	Top	0	0.347	0.113	1.050	0.364	0.119		15.3	10.9
Body	NR Band n41	100	QPSK	3	JCRXN	1:1	0.02	2592.99	518598	DFT-s-OFDM	0.0	11.90	11.72	1	1	Bottom	0	0.000	0.000	1.042	0.000	0.000		50.7	
Body	NR Band n41	100	QPSK	3	JCRXN	1:1	0.04	2592.99	518598	DFT-s-OFDM	0.0	11.90	11.69	135	138	Bottom	0	0.000	0.000	1.050	0.000	0.000		50.7	
Body	NR Band n41	100	QPSK	3	JCRXN	1:1	0.06	2592.99	518598	DFT-s-OFDM	0.0	11.90	11.72	1	1	Right	0	0.296	0.105	1.042	0.308	0.109		16.0	
Body	NR Band n41	100	QPSK	3	JCRXN	1:1	-0.02	2592.99	518598	DFT-s-OFDM	0.0	11.90	11.69	135	138	Right	0	0.145	0.049	1.050	0.152	0.051		19.1	
Body	NR Band n41	100	QPSK	3	JCRXN	1:1	-0.14	2592.99	518598	DFT-s-OFDM	0.0	11.90	11.72	1	1	Left	0	0.031	0.011	1.042	0.032	0.011		25.8	
Body	NR Band n41	100	QPSK	3	JCRXN	1:1	-0.17	2592.99	518598	DFT-s-OFDM	0.0	11.90	11.69	135	138	Left	0	0.040	0.013	1.050	0.042	0.014		24.7	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																		Body 1.6 W/kg (mW/g) averaged over 1 gram							

Note: Blue entry represents variability measurement

Table 10-80 Antenna 4b

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n41	100	QPSK	4b	9445I	1:1	0.01	2592.99	518598	DFT-s-OFDM	0.0	10.90	9.95	1	271	Back	0	0.432	0.155	1.245	0.538	0.193		12.6	
Body	NR Band n41	100	QPSK	4b	9445I	1:1	-0.02	2592.99	518598	DFT-s-OFDM	0.0	10.90	9.93	135	138	Back	0	0.416	0.150	1.250	0.520	0.188		12.7	
Body	NR Band n41	100	QPSK	4b	9445I	1:1	-0.05	2592.99	518598	DFT-s-OFDM	0.0	10.90	9.95	1	271	Top	0	0.657	0.221	1.245	0.818	0.275		10.8	
Body	NR Band n41	100	QPSK	4b	9445I	1:1	-0.01	2592.99	518598	DFT-s-OFDM	0.0	10.90	9.93	135	138	Top	0	0.671	0.229	1.250	0.839	0.286		10.6	
Body	NR Band n41	100	QPSK	4b	9445I	1:1	-0.01	2592.99	518598	DFT-s-OFDM	0.0	10.90	9.79	270	0	Top	0	0.676	0.230	1.291	0.873	0.297		10.5	
Body	NR Band n41	100	QPSK	4b	9445I	1:1	-0.11	2592.99	518598	CP-OFDM	0.0	10.90	9.76	1	1	Top	0	0.670	0.226	1.300	0.871	0.294		10.5	
Body	NR Band n41	100	QPSK	4b	9445I	1:1	0.05	2592.99	518598	DFT-s-OFDM	0.0	10.90	9.95	1	271	Bottom	0	0.000	0.000	1.245	0.000	0.000		48.9	
Body	NR Band n41	100	QPSK	4b	9445I	1:1	0.09	2592.99	518598	DFT-s-OFDM	0.0	10.90	9.93	135	138	Bottom	0	0.000	0.000	1.250	0.000	0.000		48.9	
Body	NR Band n41	100	QPSK	4b	9445I	1:1	-0.09	2592.99	518598	DFT-s-OFDM	0.0	10.90	9.95	1	271	Right	0	0.007	0.002	1.245	0.009	0.002		30.5	
Body	NR Band n41	100	QPSK	4b	9445I	1:1	0.02	2592.99	518598	DFT-s-OFDM	0.0	10.90	9.93	135	138	Right	0	0.008	0.003	1.250	0.010	0.004		29.9	
Body	NR Band n41	100	QPSK	4b	9445I	1:1	0.12	2592.99	518598	DFT-s-OFDM	0.0	10.90	9.95	1	271	Left	0	0.013	0.003	1.245	0.016	0.004		27.1	
Body	NR Band n41	100	QPSK	4b	9445I	1:1	-0.08	2592.99	518598	DFT-s-OFDM	0.0	10.90	9.93	135	138	Left	0	0.024	0.007	1.250	0.030	0.009		25.8	
ANSI/IEEE C63.1992 - SAFETY LIMIT																									
Spatial Peak																									
Uncontrolled Exposure/General Population																									
																		1.6 W/kg (mW/g) averaged over 1 gram							

10.27 NR Band n48 Standalone SAR

Table 10-81 Antenna 1

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n48	40	QPSK	1	HGM6C	1:1	0.00	3570.00	638000	DFT-s-OFDM	0.0	12.00	11.27	1	1	Back	0	0.832	0.258	1.183	0.972	0.305		11.1	
Body	NR Band n48	40	QPSK	1	HGM6C	1:1	0.01	3624.99	641666	DFT-s-OFDM	0.0	12.00	11.28	1	1	Back	0	0.759	0.229	1.180	0.896	0.270		11.5	
Body	NR Band n48	40	QPSK	1	HGM6C	1:1	-0.01	3679.98	645332	DFT-s-OFDM	0.0	12.00	11.30	1	1	Back	0	0.816	0.186	1.175	0.959	0.219		11.2	
Body	NR Band n48	40	QPSK	1	HGM6C	1:1	0.01	3570.00	638000	DFT-s-OFDM	0.0	12.00	11.14	50	0	Back	0	0.814	0.190	1.219	0.992	0.232		11.0	
Body	NR Band n48	40	QPSK	1	HGM6C	1:1	-0.20	3624.99	641666	DFT-s-OFDM	0.0	12.00	11.21	50	0	Back	0	0.663	0.193	1.194	0.792	0.230		12.0	
Body	NR Band n48	40	QPSK	1	HGM6C	1:1	0.01	3679.98	645332	DFT-s-OFDM	0.0	12.00	11.25	50	0	Back	0	0.804	0.185	1.189	0.956	0.220		11.2	
Body	NR Band n48	40	QPSK	1	HGM6C	1:1	0.00	3624.99	641666	DFT-s-OFDM	0.0	12.00	11.18	100	0	Back	0	0.760	0.232	1.208	0.918	0.280		11.4	
Body	NR Band n48	40	QPSK	1	HGM6C	1:1	0.02	3679.98	645332	CP-OFDM	0.0	12.00	11.25	1	1	Back	0	0.773	0.176	1.189	0.919	0.209		11.3	
Body	NR Band n48	40	QPSK	1	HGM6C	1:1	0.09	3679.98	645332	DFT-s-OFDM	0.0	12.00	11.30	1	1	Top	0	0.002	0.000	1.175	0.002	0.000		37.3	
Body	NR Band n48	40	QPSK	1	HGM6C	1:1	0.04	3679.98	645332	DFT-s-OFDM	0.0	12.00	11.25	50	0	Top	0	0.000	0.000	1.189	0.000	0.000		50.2	
Body	NR Band n48	40	QPSK	1	HGM6C	1:1	0.03	3679.98	645332	DFT-s-OFDM	0.0	12.00	11.30	1	1	Bottom	0	0.430	0.120	1.175	0.505	0.141		13.9	
Body	NR Band n48	40	QPSK	1	HGM6C	1:1	-0.21	3679.98	645332	DFT-s-OFDM	0.0	12.00	11.25	50	0	Bottom	0	0.410	0.114	1.189	0.487	0.136		14.1	
Body	NR Band n48	40	QPSK	1	HGM6C	1:1	0.03	3679.98	645332	DFT-s-OFDM	0.0	12.00	11.30	1	1	Right	0	0.025	0.008	1.175	0.029	0.009		26.3	
Body	NR Band n48	40	QPSK	1	HGM6C	1:1	0.07	3679.98	645332	DFT-s-OFDM	0.0	12.00	11.25	50	0	Right	0	0.010	0.002	1.189	0.012	0.002		30.2	
Body	NR Band n48	40	QPSK	1	HGM6C	1:1	-0.04	3679.98	645332	DFT-s-OFDM	0.0	12.00	11.30	1	1	Left	0	0.314	0.090	1.175	0.369	0.106		15.3	
Body	NR Band n48	40	QPSK	1	HGM6C	1:1	-0.05	3679.98	645332	DFT-s-OFDM	0.0	12.00	11.25	50	0	Left	0	0.285	0.082	1.189	0.339	0.097		15.7	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																	Body		1.6 W/kg (mW/g)		averaged over 1 gram				
Spatial Peak																									
Uncontrolled Exposure/General Population																									

Table 10-82 Antenna 2b

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n48	40	QPSK	2b	HGM6C	1:1	-0.02	3570.00	638000	DFT-s-OFDM	0.0	12.10	10.97	1	104	Back	0	0.496	0.147	1.297	0.643	0.191		13.0	
Body	NR Band n48	40	QPSK	2b	HGM6C	1:1	-0.02	3624.99	641666	DFT-s-OFDM	0.0	12.10	10.81	1	104	Back	0	0.407	0.125	1.346	0.548	0.168		13.7	
Body	NR Band n48	40	QPSK	2b	HGM6C	1:1	0.03	3679.98	645332	DFT-s-OFDM	0.0	12.10	10.48	1	104	Back	0	0.409	0.126	1.452	0.594	0.183		13.3	
Body	NR Band n48	40	QPSK	2b	HGM6C	1:1	0.06	3570.00	638000	DFT-s-OFDM	0.0	12.10	10.76	50	0	Back	0	0.479	0.140	1.361	0.652	0.191		12.9	
Body	NR Band n48	40	QPSK	2b	HGM6C	1:1	-0.02	3624.99	641666	DFT-s-OFDM	0.0	12.10	10.75	50	0	Back	0	0.397	0.122	1.365	0.542	0.167		13.7	
Body	NR Band n48	40	QPSK	2b	HGM6C	1:1	-0.01	3679.98	645332	DFT-s-OFDM	0.0	12.10	10.45	50	0	Back	0	0.401	0.122	1.462	0.586	0.178		13.4	
Body	NR Band n48	40	QPSK	2b	HGM6C	1:1	0.01	3570.00	638000	DFT-s-OFDM	0.0	12.10	10.70	100	0	Back	0	0.442	0.136	1.380	0.610	0.188		13.2	
Body	NR Band n48	40	QPSK	2b	HGM6C	1:1	0.01	3570.00	638000	DFT-s-OFDM	0.0	12.10	10.97	1	104	Top	0	0.005	0.002	1.297	0.006	0.003		33.0	
Body	NR Band n48	40	QPSK	2b	HGM6C	1:1	0.05	3570.00	638000	DFT-s-OFDM	0.0	12.10	10.76	50	0	Top	0	0.000	0.000	1.361	0.000	0.000		49.7	
Body	NR Band n48	40	QPSK	2b	HGM6C	1:1	-0.07	3570.00	638000	DFT-s-OFDM	0.0	12.10	10.97	1	104	Bottom	0	0.690	0.197	1.297	0.895	0.256		11.6	
Body	NR Band n48	40	QPSK	2b	HGM6C	1:1	-0.09	3624.99	641666	DFT-s-OFDM	0.0	12.10	10.81	1	104	Bottom	0	0.630	0.180	1.346	0.848	0.242		11.8	
Body	NR Band n48	40	QPSK	2b	HGM6C	1:1	-0.04	3679.98	645332	DFT-s-OFDM	0.0	12.10	10.48	1	104	Bottom	0	0.605	0.174	1.452	0.878	0.253		11.6	
Body	NR Band n48	40	QPSK	2b	HGM6C	1:1	-0.04	3570.00	638000	DFT-s-OFDM	0.0	12.10	10.76	50	0	Bottom	0	0.720	0.205	1.361	0.980	0.279		11.2	
Body	NR Band n48	40	QPSK	2b	HGM6C	1:1	0.13	3624.99	641666	DFT-s-OFDM	0.0	12.10	10.75	50	0	Bottom	0	0.633	0.182	1.365	0.864	0.248		11.7	
Body	NR Band n48	40	QPSK	2b	HGM6C	1:1	-0.02	3679.98	645332	DFT-s-OFDM	0.0	12.10	10.45	50	0	Bottom	0	0.622	0.176	1.462	0.909	0.257		11.5	
Body	NR Band n48	40	QPSK	2b	HGM6C	1:1	0.05	3570.00	638000	DFT-s-OFDM	0.0	12.10	10.70	100	0	Bottom	0	0.696	0.197	1.380	0.960	0.272		11.3	
Body	NR Band n48	40	QPSK	2b	HGM6C	1:1	-0.03	3570.00	638000	CP-OFDM	0.0	12.10	10.90	1	1	Bottom	0	0.713	0.203	1.318	0.940	0.268		11.4	
Body	NR Band n48	40	QPSK	2b	HGM6C	1:1	0.09	3570.00	638000	DFT-s-OFDM	0.0	12.10	10.97	1	104	Right	0	0.018	0.004	1.297	0.023	0.005		27.4	
Body	NR Band n48	40	QPSK	2b	HGM6C	1:1	-0.11	3570.00	638000	DFT-s-OFDM	0.0	12.10	10.76	50	0	Right	0	0.026	0.006	1.361	0.035	0.008		25.6	
Body	NR Band n48	40	QPSK	2b	HGM6C	1:1	0.04	3570.00	638000	DFT-s-OFDM	0.0	12.10	10.97	1	104	Left	0	0.002	0.000	1.297	0.003	0.000		36.9	
Body	NR Band n48	40	QPSK	2b	HGM6C	1:1	0.04	3570.00	638000	DFT-s-OFDM	0.0	12.10	10.76	50	0	Left	0	0.003	0.001	1.361	0.004	0.001		35.0	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																	Body		1.6 W/kg (mW/g)		averaged over 1 gram				
Spatial Peak																									
Uncontrolled Exposure/General Population																									

Table 10-83 Antenna 3

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n48	40	QPSK	3	2T47V	1:1	-0.07	3570.00	638000	DFT-s-OFDM	0.0	12.00	11.90	1	1	Back	0	0.834	0.210	1.023	0.853	0.215		11.7	
Body	NR Band n48	40	QPSK	3	2T47V	1:1	0.00	3624.99	641666	DFT-s-OFDM	0.0	12.00	11.72	1	1	Back	0	0.931	0.233	1.067	0.993	0.249		11.0	
Body	NR Band n48	40	QPSK	3	2T47V	1:1	-0.07	3679.98	645332	DFT-s-OFDM	0.0	12.00	11.94	1	1	Back	0	0.899	0.229	1.014	0.912	0.232		11.4	
Body	NR Band n48	40	QPSK	3	2T47V	1:1	-0.01	3570.00	638000	DFT-s-OFDM	0.0	12.00	11.69	50	56	Back	0	0.925	0.231	1.074	0.993	0.248		11.0	
Body	NR Band n48	40	QPSK	3	2T47V	1:1	0.01	3624.99	641666	DFT-s-OFDM	0.0	12.00	11.74	50	0	Back	0	0.923	0.233	1.062	0.980	0.247		11.1	
Body	NR Band n48	40	QPSK	3	2T47V	1:1	-0.02	3679.98	645332	DFT-s-OFDM	0.0	12.00	11.88	50	0	Back	0	0.861	0.219	1.028	0.885	0.225		11.5	
Body	NR Band n48	40	QPSK	3	2T47V	1:1	0.01	3679.98	645332	DFT-s-OFDM	0.0	12.00	11.75	100	0	Back	0	0.937	0.236	1.059	0.992	0.250	A27	11.0	
Body	NR Band n48	40	QPSK	3	2T47V	1:1	-0.06	3679.98	645332	DFT-s-OFDM	0.0	12.00	11.75	100	0	Back	0	0.829	0.217	1.099	0.878	0.225		11.5	
Body	NR Band n48	40	QPSK	3	2T47V	1:1	0.00	3570.00	638000	CP-OFDM	0.0	12.00	11.72	1	1	Back	0	0.755	0.192	1.067	0.806	0.205		11.9	
Body	NR Band n48	40	QPSK	3	2T47V	1:1	-0.05	3570.00	638000	DFT-s-OFDM	0.0	12.00	11.90	1	1	Top	0	0.847	0.235	1.023	0.866	0.240		11.6	
Body	NR Band n48	40	QPSK	3	2T47V	1:1	-0.09	3624.99	641666	DFT-s-OFDM	0.0	12.00	11.72	1	1	Top	0	0.786	0.212	1.067	0.839	0.226		11.7	
Body	NR Band n48	40	QPSK	3	2T47V	1:1	-0.03	3679.98	645332	DFT-s-OFDM	0.0	12.00	11.94	1	1	Top	0	0.842	0.224	1.014	0.854	0.227		11.7	
Body	NR Band n48	40	QPSK	3	2T47V	1:1	0.02	3570.00	638000	DFT-s-OFDM	0.0	12.00	11.69	50	56	Top	0	0.806	0.220	1.074	0.866	0.236		11.6	
Body	NR Band n48	40	QPSK	3	2T47V	1:1	0.04	3624.99	641666	DFT-s-OFDM	0.0	12.00	11.74	50	0	Top	0	0.792	0.213	1.062	0.841	0.226		11.7	
Body	NR Band n48	40	QPSK	3	2T47V	1:1	-0.07	3679.98	645332	DFT-s-OFDM	0.0	12.00	11.98	50	0	Top	0	0.726	0.208	1.028	0.810	0.214		11.8	
Body	NR Band n48	40	QPSK	3	2T47V	1:1	0.00	3679.98	645332	DFT-s-OFDM	0.0	12.00	11.75	100	0	Top	0	0.778	0.207	1.059	0.824	0.219		11.8	
Body	NR Band n48	40	QPSK	3	2T47V	1:1	0.02	3679.98	645332	DFT-s-OFDM	0.0	12.00	11.94	1	1	Bottom	0	0.004	0.000	1.014	0.004	0.000		34.9	
Body	NR Band n48	40	QPSK	3	2T47V	1:1	0.05	3679.98	645332	DFT-s-OFDM	0.0	12.00	11.88	50	0	Bottom	0	0.005	0.000	1.028	0.005	0.000		33.9	
Body	NR Band n48	40	QPSK	3	2T47V	1:1	0.07	3570.00	638000	DFT-s-OFDM	0.0	12.00	11.90	1	1	Right	0	0.867	0.253	1.023	0.887	0.259		11.5	
Body	NR Band n48	40	QPSK	3	2T47V	1:1	0.03	3570.00	638000	DFT-s-OFDM	0.0	12.00	11.90	1	1	Right	0	0.754	0.221	1.023	0.871	0.228		12.1	
Body	NR Band n48	40	QPSK	3	2T47V	1:1	0.06	3624.99	641666	DFT-s-OFDM	0.0	12.00	11.72	1	1	Right	0	0.760	0.222	1.067	0.811	0.237		11.9	
Body	NR Band n48	40	QPSK	3	2T47V	1:1	-0.04	3679.98	645332	DFT-s-OFDM	0.0	12.00	11.94	1	1	Right	0	0.739	0.214	1.074	0.749	0.217		12.2	
Body	NR Band n48	40	QPSK	3	2T47V	1:1	-0.01	3570.00	638000	DFT-s-OFDM	0.0	12.00	11.69	50	56	Right	0	0.837	0.241	1.074	0.899	0.259		11.4	
Body	NR Band n48	40	QPSK	3	2T47V	1:1	-0.02	3624.99	641666	DFT-s-OFDM	0.0	12.00	11.74	50	0	Right	0	0.762	0.221	1.062	0.809	0.235		11.9	
Body	NR Band n48	40	QPSK	3	2T47V	1:1	0.02	3679.98	645332	DFT-s-OFDM	0.0	12.00	11.88	50	0	Right	0	0.717	0.205	1.028	0.737	0.211		12.3	
Body	NR Band n48	40	QPSK	3	2T47V	1:1	-0.04	3679.98	645332	DFT-s-OFDM	0.0	12.00	11.75	100	0	Right	0	0.712	0.207	1.059	0.754	0.219		12.2	
Body	NR Band n48	40	QPSK	3	2T47V	1:1	0.05	3679.98	645332	DFT-s-OFDM	0.0	12.00	11.94	1	1	Left	0	0.019	0.005	1.014	0.019	0.005		28.1	
Body	NR Band n48	40	QPSK	3	2T47V	1:1	-0.04	3679.98	645332	DFT-s-OFDM	0.0	12.00	11.88	50	0	Left	0	0.019	0.005	1.028	0.020	0.005		28.1	
Spatial Peak																		Body							
Uncontrolled Exposure/General Population																		1.6 W/kg (mW/g)							
																		averaged over 1 gram							

Table 10-84 Antenna 4b

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n48	40	QPSK	4b	2T47V	1:1	0.08	3624.99	641666	DFT-s-OFDM	0.0	11.20	10.17	1	1	Back	0	0.366	0.110	1.268	0.464	0.139		13.5	10.5
Body	NR Band n48	40	QPSK	4b	2T47V	1:1	-0.03	3624.99	641666	DFT-s-OFDM	0.0	11.20	10.07	50	0	Back	0	0.368	0.112	1.297	0.477	0.145		13.4	
Body	NR Band n48	40	QPSK	4b	2T47V	1:1	0.02	3570.00	638000	DFT-s-OFDM	0.0	11.20	10.10	1	104	Top	0	0.677	0.189	1.288	0.872	0.243		10.8	
Body	NR Band n48	40	QPSK	4b	2T47V	1:1	0.00	3624.99	641666	DFT-s-OFDM	0.0	11.20	10.17	1	1	Top	0	0.646	0.183	1.268	0.819	0.232		11.0	
Body	NR Band n48	40	QPSK	4b	2T47V	1:1	-0.03	3679.98	645332	DFT-s-OFDM	0.0	11.20	9.72	1	53	Top	0	0.666	0.187	1.406	0.936	0.263		10.5	
Body	NR Band n48	40	QPSK	4b	2T47V	1:1	0.00	3570.00	638000	DFT-s-OFDM	0.0	11.20	9.94	50	56	Top	0	0.678	0.189	1.337	0.906	0.253		10.6	
Body	NR Band n48	40	QPSK	4b	2T47V	1:1	-0.05	3624.99	641666	DFT-s-OFDM	0.0	11.20	10.07	50	0	Top	0	0.633	0.178	1.297	0.821	0.231		11.0	
Body	NR Band n48	40	QPSK	4b	2T47V	1:1	-0.03	3679.98	645332	DFT-s-OFDM	0.0	11.20	9.63	50	0	Top	0	0.648	0.182	1.435	0.930	0.261		10.5	
Body	NR Band n48	40	QPSK	4b	2T47V	1:1	-0.02	3624.99	641666	DFT-s-OFDM	0.0	11.20	10.05	100	0	Top	0	0.638	0.179	1.303	0.831	0.233		11.0	
Body	NR Band n48	40	QPSK	4b	2T47V	1:1	-0.02	3624.99	641666	CP-OFDM	0.0	11.20	10.09	1	1	Top	0	0.662	0.185	1.291	0.855	0.239		10.9	
Body	NR Band n48	40	QPSK	4b	2T47V	1:1	0.03	3624.99	641666	DFT-s-OFDM	0.0	11.20	10.17	1	1	Bottom	0	0.000	0.000	1.268	0.000	0.000		49.2	
Body	NR Band n48	40	QPSK	4b	2T47V	1:1	0.07	3624.99	641666	DFT-s-OFDM	0.0	11.20	10.07	50	0	Bottom	0	0.000	0.000	1.297	0.000	0.000		49.1	
Body	NR Band n48	40	QPSK	4b	2T47V	1:1	0.03	3624.99	641666	DFT-s-OFDM	0.0	11.20	10.17	1	1	Right	0	0.003	0.000	1.268	0.004	0.000		34.4	
Body	NR Band n48	40	QPSK	4b	2T47V	1:1	0.05	3624.99	641666	DFT-s-OFDM	0.0	11.20	10.07	50	0	Right	0	0.002	0.000	1.297	0.003	0.000		36.0	
Body	NR Band n48	40	QPSK	4b	2T47V	1:1	0.07	3624.99	641666	DFT-s-OFDM	0.0	11.20	10.17	1	1	Left	0	0.030	0.008	1.268	0.038	0.010		24.4	
Body	NR Band n48	40	QPSK	4b	2T47V	1:1	0.09	3624.99	641666	DFT-s-OFDM	0.0	11.20	10.07	50	0	Left	0	0.028	0.007	1.297	0.036	0.009		24.6	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																	Body								
Spatial Peak																	1.6 W/kg (mW/g)								
Uncontrolled Exposure/General Population																	averaged over 1 gram								

10.28 NR Band n77 C Standalone SAR

Table 10-85 Antenna 1

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n77	100	QPSK	1	HGM6C	1:1	-0.12	3750.00	650000	DFT-s-OFDM	0.0	10.90	9.75	1	137	Back	0	0.680	0.196	1.303	0.886	0.255		10.4	
Body	NR Band n77	100	QPSK	1	HGM6C	1:1	0.02	3930.00	662000	DFT-s-OFDM	0.0	10.90	9.65	1	137	Back	0	0.524	0.155	1.334	0.699	0.207		11.4	
Body	NR Band n77	100	QPSK	1	HGM6C	1:1	0.04	3750.00	650000	DFT-s-OFDM	0.0	10.90	9.70	135	0	Back	0	0.658	0.192	1.318	0.867	0.253		10.5	
Body	NR Band n77	100	QPSK	1	HGM6C	1:1	-0.21	3930.00	662000	DFT-s-OFDM	0.0	10.90	9.55	135	0	Back	0	0.727	0.211	1.365	0.992	0.288		9.9	
Body	NR Band n77	100	QPSK	1	HGM6C	1:1	-0.19	3750.00	650000	DFT-s-OFDM	0.0	10.90	9.65	270	0	Back	0	0.664	0.193	1.334	0.886	0.257		10.4	
Body	NR Band n77	100	QPSK	1	HGM6C	1:1	-0.16	3750.00	650000	CP-OFDM	0.0	10.90	9.69	1	1	Back	0	0.624	0.184	1.321	0.824	0.243		10.7	
Body	NR Band n77	100	QPSK	1	HGM6C	1:1	0.09	3750.00	650000	DFT-s-OFDM	0.0	10.90	9.75	1	137	Top	0	0.002	0.000	1.303	0.003	0.000		35.7	
Body	NR Band n77	100	QPSK	1	HGM6C	1:1	0.07	3750.00	650000	DFT-s-OFDM	0.0	10.90	9.70	135	0	Top	0	0.000	0.000	1.318	0.000	0.000		48.7	
Body	NR Band n77	100	QPSK	1	HGM6C	1:1	-0.08	3750.00	650000	DFT-s-OFDM	0.0	10.90	9.75	1	137	Bottom	0	0.267	0.077	1.303	0.348	0.100		14.5	
Body	NR Band n77	100	QPSK	1	HGM6C	1:1	0.02	3750.00	650000	DFT-s-OFDM	0.0	10.90	9.70	135	0	Bottom	0	0.267	0.077	1.318	0.352	0.101		14.4	
Body	NR Band n77	100	QPSK	1	HGM6C	1:1	0.01	3750.00	650000	DFT-s-OFDM	0.0	10.90	9.75	1	137	Right	0	0.003	0.000	1.303	0.004	0.000		34.0	
Body	NR Band n77	100	QPSK	1	HGM6C	1:1	0.03	3750.00	650000	DFT-s-OFDM	0.0	10.90	9.70	135	0	Right	0	0.002	0.000	1.318	0.003	0.000		35.7	
Body	NR Band n77	100	QPSK	1	HGM6C	1:1	0.17	3750.00	650000	DFT-s-OFDM	0.0	10.90	9.75	1	137	Left	0	0.035	0.006	1.303	0.046	0.008		23.3	
Body	NR Band n77	100	QPSK	1	HGM6C	1:1	0.05	3750.00	650000	DFT-s-OFDM	0.0	10.90	9.70	135	0	Left	0	0.029	0.003	1.318	0.038	0.004		24.1	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																									
Spatial Peak																									
Uncontrolled Exposure/General Population																									
																		Body							
																		1.6 W/kg (mW/g)							
																		averaged over 1 gram							

Table 10-86 Antenna 2b

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n77	100	QPSK	2b	HGM6C	1:1	0.01	3750.00	650000	DFT-s-OFDM	0.0	11.50	10.37	1	1	Back	0	0.478	0.145	1.297	0.620	0.188		12.6	
Body	NR Band n77	100	QPSK	2b	HGM6C	1:1	0.05	3930.00	662000	DFT-s-OFDM	0.0	11.50	10.39	1	1	Back	0	0.548	0.170	1.291	0.707	0.219		12.0	
Body	NR Band n77	100	QPSK	2b	HGM6C	1:1	-0.07	3750.00	650000	DFT-s-OFDM	0.0	11.50	10.22	135	0	Back	0	0.481	0.147	1.343	0.646	0.197		12.4	
Body	NR Band n77	100	QPSK	2b	HGM6C	1:1	0.05	3930.00	662000	DFT-s-OFDM	0.0	11.50	10.36	135	0	Back	0	0.549	0.175	1.300	0.714	0.228		11.9	
Body	NR Band n77	100	QPSK	2b	HGM6C	1:1	-0.09	3930.00	662000	DFT-s-OFDM	0.0	11.50	10.33	270	0	Back	0	0.491	0.159	1.309	0.643	0.208		12.4	
Body	NR Band n77	100	QPSK	2b	HGM6C	1:1	0.08	3930.00	662000	DFT-s-OFDM	0.0	11.50	10.39	1	1	Top	0	0.001	0.000	1.291	0.001	0.000		39.4	
Body	NR Band n77	100	QPSK	2b	HGM6C	1:1	0.03	3930.00	662000	DFT-s-OFDM	0.0	11.50	10.36	135	0	Top	0	0.003	0.001	1.300	0.004	0.001		34.6	
Body	NR Band n77	100	QPSK	2b	HGM6C	1:1	0.04	3750.00	650000	DFT-s-OFDM	0.0	11.50	10.37	1	1	Bottom	0	0.651	0.188	1.297	0.844	0.244		11.2	
Body	NR Band n77	100	QPSK	2b	HGM6C	1:1	0.06	3930.00	662000	DFT-s-OFDM	0.0	11.50	10.39	1	1	Bottom	0	0.698	0.186	1.291	0.901	0.240		10.9	
Body	NR Band n77	100	QPSK	2b	HGM6C	1:1	0.04	3750.00	650000	DFT-s-OFDM	0.0	11.50	10.22	135	0	Bottom	0	0.643	0.183	1.343	0.864	0.246		11.1	
Body	NR Band n77	100	QPSK	2b	HGM6C	1:1	0.01	3930.00	662000	DFT-s-OFDM	0.0	11.50	10.36	135	0	Bottom	0	0.664	0.177	1.300	0.863	0.230		11.1	
Body	NR Band n77	100	QPSK	2b	HGM6C	1:1	-0.09	3930.00	662000	DFT-s-OFDM	0.0	11.50	10.33	270	0	Bottom	0	0.646	0.173	1.309	0.846	0.226		11.2	
Body	NR Band n77	100	QPSK	2b	HGM6C	1:1	0.02	3930.00	662000	CP-OFDM	0.0	11.50	10.41	1	1	Bottom	0	0.694	0.184	1.279	0.888	0.235		11.0	
Body	NR Band n77	100	QPSK	2b	HGM6C	1:1	0.08	3930.00	662000	DFT-s-OFDM	0.0	11.50	10.39	1	1	Right	0	0.015	0.000	1.291	0.019	0.000		27.6	
Body	NR Band n77	100	QPSK	2b	HGM6C	1:1	0.02	3930.00	662000	DFT-s-OFDM	0.0	11.50	10.36	135	0	Right	0	0.020	0.003	1.300	0.026	0.004		26.3	
Body	NR Band n77	100	QPSK	2b	HGM6C	1:1	0.01	3930.00	662000	DFT-s-OFDM	0.0	11.50	10.39	1	1	Left	0	0.005	0.002	1.291	0.006	0.003		32.4	
Body	NR Band n77	100	QPSK	2b	HGM6C	1:1	0.06	3930.00	662000	DFT-s-OFDM	0.0	11.50	10.36	135	0	Left	0	0.002	0.000	1.300	0.003	0.000		36.3	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																									
Spatial Peak																									
Uncontrolled Exposure/General Population																									
																		1.6 W/kg (mW/g) averaged over 1 gram							

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Document S/N: 1C2311270068-02.BCG-R1	DUT Type: Tablet Device		Technical Manager
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Table 10-87 Antenna 3

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n77	100	QPSK	3	302LK	1:1	0.01	3750.00	650000	DFT-s-OFDM	0.0	10.80	10.35	1	137	Back	0	0.600	0.157	1.107	0.654	0.174		11.6	
Body	NR Band n77	100	QPSK	3	302LK	1:1	-0.01	3930.00	662000	DFT-s-OFDM	0.0	10.80	10.07	1	137	Back	0	0.365	0.118	1.183	0.432	0.140		13.4	
Body	NR Band n77	100	QPSK	3	302LK	1:1	0.00	3750.00	650000	DFT-s-OFDM	0.0	10.80	10.44	135	138	Back	0	0.564	0.148	1.086	0.613	0.161		11.9	
Body	NR Band n77	100	QPSK	3	302LK	1:1	-0.06	3930.00	662000	DFT-s-OFDM	0.0	10.80	10.12	135	0	Back	0	0.353	0.115	1.169	0.413	0.134		13.6	
Body	NR Band n77	100	QPSK	3	302LK	1:1	-0.02	3750.00	650000	DFT-s-OFDM	0.0	10.80	10.33	270	0	Back	0	0.607	0.159	1.114	0.676	0.177		11.5	
Body	NR Band n77	100	QPSK	3	302LK	1:1	0.01	3750.00	650000	DFT-s-OFDM	0.0	10.80	10.36	1	137	Top	0	0.568	0.145	1.107	0.629	0.161		11.8	
Body	NR Band n77	100	QPSK	3	302LK	1:1	-0.01	3930.00	662000	DFT-s-OFDM	0.0	10.80	10.07	1	137	Top	0	0.379	0.099	1.183	0.448	0.117		13.3	
Body	NR Band n77	100	QPSK	3	302LK	1:1	0.03	3750.00	650000	DFT-s-OFDM	0.0	10.80	10.44	135	138	Top	0	0.519	0.130	1.086	0.564	0.141		12.3	
Body	NR Band n77	100	QPSK	3	302LK	1:1	-0.10	3930.00	662000	DFT-s-OFDM	0.0	10.80	10.12	135	0	Top	0	0.367	0.094	1.169	0.429	0.110		13.5	
Body	NR Band n77	100	QPSK	3	302LK	1:1	-0.03	3750.00	650000	DFT-s-OFDM	0.0	10.80	10.33	270	0	Top	0	0.546	0.137	1.114	0.608	0.153		11.9	
Body	NR Band n77	100	QPSK	3	302LK	1:1	0.09	3750.00	650000	DFT-s-OFDM	0.0	10.80	10.36	1	137	Bottom	0	0.002	0.000	1.107	0.002	0.000		36.3	9.8
Body	NR Band n77	100	QPSK	3	302LK	1:1	0.01	3750.00	650000	DFT-s-OFDM	0.0	10.80	10.44	135	138	Bottom	0	0.000	0.000	1.086	0.000	0.000		49.4	
Body	NR Band n77	100	QPSK	3	302LK	1:1	-0.03	3750.00	650000	DFT-s-OFDM	0.0	10.80	10.36	1	137	Right	0	0.460	0.125	1.107	0.509	0.138		12.7	
Body	NR Band n77	100	QPSK	3	302LK	1:1	0.08	3930.00	662000	DFT-s-OFDM	0.0	10.80	10.07	1	137	Right	0	0.811	0.222	1.183	0.959	0.263		10.0	
Body	NR Band n77	100	QPSK	3	302LK	1:1	0.07	3750.00	650000	DFT-s-OFDM	0.0	10.80	10.44	135	138	Right	0	0.431	0.119	1.086	0.468	0.129		13.1	
Body	NR Band n77	100	QPSK	3	302LK	1:1	-0.02	3930.00	662000	DFT-s-OFDM	0.0	10.80	10.12	135	0	Right	0	0.809	0.222	1.169	0.946	0.260		10.0	
Body	NR Band n77	100	QPSK	3	302LK	1:1	-0.05	3930.00	650000	DFT-s-OFDM	0.0	10.80	10.33	270	0	Right	0	0.448	0.127	1.114	0.499	0.141		12.8	
Body	NR Band n77	100	QPSK	3	302LK	1:1	0.00	3930.00	662000	CP-OFDM	0.0	10.80	10.16	1	1	Right	0	0.858	0.240	1.159	0.994	0.278	A28	9.8	
Body	NR Band n77	100	QPSK	3	302LK	1:1	0.00	3930.00	662000	CP-OFDM	0.0	10.80	9.98	1	1	Right	0	0.858	0.240	1.159	0.994	0.278		10.5	
Body	NR Band n77	100	QPSK	3	302LK	1:1	0.08	3750.00	650000	DFT-s-OFDM	0.0	10.80	10.35	1	137	Left	0	0.015	0.005	1.107	0.017	0.006		27.6	
Body	NR Band n77	100	QPSK	3	302LK	1:1	0.02	3750.00	650000	DFT-s-OFDM	0.0	10.80	10.44	135	138	Left	0	0.012	0.002	1.086	0.013	0.002		28.6	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																	Body 1.6 W/kg (mW/g) averaged over 1 gram								

Note: Blue entry represents variability measurement

Table 10-88 Antenna 4b

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n77	100	QPSK	4b	2147V	1:1	-0.02	3750.00	650000	DFT-s-OFDM	0.0	10.80	9.51	1	137	Back	0	0.473	0.144	1.346	0.637	0.194		11.7	
Body	NR Band n77	100	QPSK	4b	2147V	1:1	-0.01	3930.00	662000	DFT-s-OFDM	0.0	10.80	9.72	1	1	Back	0	0.531	0.165	1.282	0.681	0.212		11.5	
Body	NR Band n77	100	QPSK	4b	2147V	1:1	0.05	3750.00	650000	DFT-s-OFDM	0.0	10.80	9.55	135	69	Back	0	0.457	0.141	1.334	0.610	0.188		11.9	
Body	NR Band n77	100	QPSK	4b	2147V	1:1	-0.02	3930.00	662000	DFT-s-OFDM	0.0	10.80	9.60	135	0	Back	0	0.549	0.173	1.318	0.724	0.228		11.2	
Body	NR Band n77	100	QPSK	4b	2147V	1:1	0.00	3750.00	650000	DFT-s-OFDM	0.0	10.80	9.58	270	0	Back	0	0.460	0.139	1.324	0.609	0.184		11.9	
Body	NR Band n77	100	QPSK	4b	2147V	1:1	-0.06	3750.00	650000	DFT-s-OFDM	0.0	10.80	9.51	1	137	Top	0	0.695	0.199	1.346	0.935	0.268		10.1	
Body	NR Band n77	100	QPSK	4b	2147V	1:1	0.01	3930.00	662000	DFT-s-OFDM	0.0	10.80	9.72	1	1	Top	0	0.722	0.194	1.282	0.926	0.249		10.1	
Body	NR Band n77	100	QPSK	4b	2147V	1:1	-0.03	3750.00	650000	DFT-s-OFDM	0.0	10.80	9.55	135	69	Top	0	0.675	0.196	1.334	0.900	0.261		10.2	
Body	NR Band n77	100	QPSK	4b	2147V	1:1	0.00	3930.00	662000	DFT-s-OFDM	0.0	10.80	9.60	135	0	Top	0	0.708	0.193	1.318	0.933	0.254		10.1	
Body	NR Band n77	100	QPSK	4b	2147V	1:1	0.01	3750.00	650000	DFT-s-OFDM	0.0	10.80	9.58	270	0	Top	0	0.697	0.200	1.324	0.923	0.265		10.1	9.9
Body	NR Band n77	100	QPSK	4b	2147V	1:1	-0.02	3930.00	662000	CP-OFDM	0.0	10.80	9.36	1	1	Top	0	0.696	0.190	1.393	0.970	0.265		9.9	
Body	NR Band n77	100	QPSK	4b	2147V	1:1	0.01	3930.00	662000	DFT-s-OFDM	0.0	10.80	9.72	1	1	Bottom	0	0.000	0.000	1.282	0.000	0.000		48.7	
Body	NR Band n77	100	QPSK	4b	2147V	1:1	0.06	3930.00	662000	DFT-s-OFDM	0.0	10.80	9.60	135	0	Bottom	0	0.000	0.000	1.318	0.000	0.000		48.6	
Body	NR Band n77	100	QPSK	4b	2147V	1:1	0.09	3930.00	662000	DFT-s-OFDM	0.0	10.80	9.72	1	1	Right	0	0.006	0.001	1.282	0.008	0.001		30.9	
Body	NR Band n77	100	QPSK	4b	2147V	1:1	-0.02	3930.00	662000	DFT-s-OFDM	0.0	10.80	9.60	135	0	Right	0	0.000	0.000	1.318	0.000	0.000		48.6	
Body	NR Band n77	100	QPSK	4b	2147V	1:1	0.00	3930.00	662000	DFT-s-OFDM	0.0	10.80	9.72	1	1	Left	0	0.000	0.003	1.282	0.006	0.004		25.7	
Body	NR Band n77	100	QPSK	4b	2147V	1:1	0.07	3930.00	662000	DFT-s-OFDM	0.0	10.80	9.60	135	0	Left	0	0.022	0.005	1.318	0.029	0.007		25.2	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																	Body 1.6 W/kg (mW/g) averaged over 1 gram								

10.1 NR Band n77 DoD Standalone SAR

Table 10-89 Antenna 1

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n77 DoD	100	QPSK	1	HGM6C	1:1	0.07	3500.01	633334	DFT-s-OFDM	0.0	10.90	9.72	1	271	Back	0	0.580	0.176	1.312	0.761	0.231		11.1	
Body	NR Band n77 DoD	100	QPSK	1	HGM6C	1:1	0.05	3500.01	633334	DFT-s-OFDM	0.0	10.90	9.77	135	138	Back	0	0.541	0.170	1.297	0.702	0.220		11.4	
Body	NR Band n77 DoD	100	QPSK	1	HGM6C	1:1	0.07	3500.01	633334	DFT-s-OFDM	0.0	10.90	9.68	270	0	Back	0	0.576	0.178	1.324	0.763	0.236		11.1	
Body	NR Band n77 DoD	100	QPSK	1	HGM6C	1:1	-0.13	3500.01	633334	CP-OFDM	0.0	10.90	9.71	1	1	Back	0	0.713	0.171	1.315	0.938	0.225		10.2	
Body	NR Band n77 DoD	100	QPSK	1	HGM6C	1:1	0.09	3500.01	633334	DFT-s-OFDM	0.0	10.90	9.72	1	271	Top	0	0.001	0.000	1.312	0.001	0.000		38.7	
Body	NR Band n77 DoD	100	QPSK	1	HGM6C	1:1	0.01	3500.01	633334	DFT-s-OFDM	0.0	10.90	9.77	135	138	Top	0	0.001	0.000	1.297	0.001	0.000		38.8	
Body	NR Band n77 DoD	100	QPSK	1	HGM6C	1:1	-0.12	3500.01	633334	DFT-s-OFDM	0.0	10.90	9.72	1	271	Bottom	0	0.328	0.097	1.312	0.430	0.127		13.5	10.2
Body	NR Band n77 DoD	100	QPSK	1	HGM6C	1:1	-0.01	3500.01	633334	DFT-s-OFDM	0.0	10.90	9.77	135	138	Bottom	0	0.347	0.102	1.297	0.450	0.132		13.3	
Body	NR Band n77 DoD	100	QPSK	1	HGM6C	1:1	-0.04	3500.01	633334	DFT-s-OFDM	0.0	10.90	9.68	270	0	Bottom	0	0.378	0.111	1.324	0.500	0.147		12.9	
Body	NR Band n77 DoD	100	QPSK	1	HGM6C	1:1	0.07	3500.01	633334	DFT-s-OFDM	0.0	10.90	9.72	1	271	Right	0	0.014	0.003	1.312	0.016	0.004		27.2	
Body	NR Band n77 DoD	100	QPSK	1	HGM6C	1:1	0.07	3500.01	633334	DFT-s-OFDM	0.0	10.90	9.77	135	138	Right	0	0.014	0.004	1.297	0.016	0.005		27.3	
Body	NR Band n77 DoD	100	QPSK	1	HGM6C	1:1	-0.11	3500.01	633334	DFT-s-OFDM	0.0	10.90	9.72	1	271	Left	0	0.143	0.036	1.312	0.188	0.047		17.1	
Body	NR Band n77 DoD	100	QPSK	1	HGM6C	1:1	-0.06	3500.01	633334	DFT-s-OFDM	0.0	10.90	9.77	135	138	Left	0	0.171	0.094	1.297	0.222	0.057		16.4	
ANSI/IEEE C63.1-1992 SAFETY LIMIT																									
Spatial Peak																		Body							
Uncontrolled Exposure/General Population																		1.6 W/kg (mW/g) averaged over 1 gram							

Table 10-90 Antenna 2b

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n77 DoD	100	QPSK	2b	HGM6C	1:1	-0.17	3500.01	633334	DFT-s-OFDM	0.0	11.50	10.54	1	271	Back	0	0.505	0.148	1.247	0.630	0.185		12.5	10.5
Body	NR Band n77 DoD	100	QPSK	2b	HGM6C	1:1	-0.15	3500.01	633334	DFT-s-OFDM	0.0	11.50	10.50	135	138	Back	0	0.517	0.152	1.259	0.651	0.191		12.3	
Body	NR Band n77 DoD	100	QPSK	2b	HGM6C	1:1	0.03	3500.01	633334	DFT-s-OFDM	0.0	11.50	10.54	1	271	Top	0	0.004	0.002	1.247	0.005	0.002		33.5	
Body	NR Band n77 DoD	100	QPSK	2b	HGM6C	1:1	0.05	3500.01	633334	DFT-s-OFDM	0.0	11.50	10.50	135	138	Top	0	0.000	0.000	1.259	0.000	0.000		49.5	
Body	NR Band n77 DoD	100	QPSK	2b	HGM6C	1:1	0.00	3500.01	633334	DFT-s-OFDM	0.0	11.50	10.54	1	271	Bottom	0	0.735	0.209	1.247	0.917	0.261		10.9	
Body	NR Band n77 DoD	100	QPSK	2b	HGM6C	1:1	-0.15	3500.01	633334	DFT-s-OFDM	0.0	11.50	10.50	135	138	Bottom	0	0.748	0.215	1.259	0.942	0.271		10.7	
Body	NR Band n77 DoD	100	QPSK	2b	HGM6C	1:1	-0.16	3500.01	633334	DFT-s-OFDM	0.0	11.50	10.42	270	0	Bottom	0	0.775	0.222	1.282	0.994	0.285	A29	10.5	
Body	NR Band n77 DoD	100	QPSK	2b	HGM6C	1:1	0.01	3500.01	633334	CP-OFDM	0.0	11.50	10.39	1	1	Bottom	0	0.759	0.220	1.291	0.980	0.284		10.6	
Body	NR Band n77 DoD	100	QPSK	2b	HGM6C	1:1	0.05	3500.01	633334	DFT-s-OFDM	0.0	11.50	10.54	1	271	Right	0	0.023	0.005	1.247	0.029	0.006		25.9	
Body	NR Band n77 DoD	100	QPSK	2b	HGM6C	1:1	0.05	3500.01	633334	DFT-s-OFDM	0.0	11.50	10.50	135	138	Right	0	0.028	0.007	1.259	0.035	0.009		25.0	
Body	NR Band n77 DoD	100	QPSK	2b	HGM6C	1:1	0.01	3500.01	633334	DFT-s-OFDM	0.0	11.50	10.54	1	271	Left	0	0.000	0.000	1.247	0.000	0.000		49.5	
Body	NR Band n77 DoD	100	QPSK	2b	HGM6C	1:1	0.01	3500.01	633334	DFT-s-OFDM	0.0	11.50	10.50	135	138	Left	0	0.000	0.000	1.259	0.000	0.000		49.5	
ANSI/IEEE C63.1 1992 - SAFETY LIMIT																	Body								
Spatial Peak Uncontrolled Exposure/General Population																	1.6 W/kg (mW/g) averaged over 1 gram								

Table 10-91 Antenna 3

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n77 DoD	100	QPSK	3	302LK	1:1	0.02	3500.01	633334	DFT-s-OFDM	0.0	10.80	10.40	1	137	Back	0	0.524	0.133	1.096	0.574	0.146		12.2	11.6
Body	NR Band n77 DoD	100	QPSK	3	302LK	1:1	0.02	3500.01	633334	DFT-s-OFDM	0.0	10.80	10.42	135	69	Back	0	0.502	0.127	1.091	0.548	0.139		12.4	
Body	NR Band n77 DoD	100	QPSK	3	302LK	1:1	-0.03	3500.01	633334	DFT-s-OFDM	0.0	10.80	10.40	1	137	Top	0	0.538	0.147	1.096	0.590	0.161		12.1	
Body	NR Band n77 DoD	100	QPSK	3	302LK	1:1	-0.01	3500.01	633334	DFT-s-OFDM	0.0	10.80	10.42	135	69	Top	0	0.540	0.146	1.091	0.589	0.159		12.1	
Body	NR Band n77 DoD	100	QPSK	3	302LK	1:1	0.06	3500.01	633334	DFT-s-OFDM	0.0	10.80	10.40	1	137	Bottom	0	0.002	0.000	1.096	0.002	0.000		36.4	
Body	NR Band n77 DoD	100	QPSK	3	302LK	1:1	0.03	3500.01	633334	DFT-s-OFDM	0.0	10.80	10.42	135	69	Bottom	0	0.000	0.000	1.091	0.000	0.000		49.4	
Body	NR Band n77 DoD	100	QPSK	3	302LK	1:1	-0.03	3500.01	633334	DFT-s-OFDM	0.0	10.80	10.40	1	137	Right	0	0.521	0.159	1.096	0.571	0.174		12.2	
Body	NR Band n77 DoD	100	QPSK	3	302LK	1:1	0.02	3500.01	633334	DFT-s-OFDM	0.0	10.80	10.42	135	69	Right	0	0.553	0.163	1.091	0.603	0.178		12.0	
Body	NR Band n77 DoD	100	QPSK	3	302LK	1:1	-0.01	3500.01	633334	CP-OFDM	0.0	10.80	10.23	1	1	Right	0	0.578	0.175	1.140	0.659	0.200		11.6	
Body	NR Band n77 DoD	100	QPSK	3	302LK	1:1	0.09	3500.01	633334	DFT-s-OFDM	0.0	10.80	10.40	1	137	Left	0	0.009	0.003	1.096	0.010	0.003		29.8	
Body	NR Band n77 DoD	100	QPSK	3	302LK	1:1	0.08	3500.01	633334	DFT-s-OFDM	0.0	10.80	10.42	135	69	Left	0	0.009	0.003	1.091	0.010	0.003		29.9	
ANSI/IEEE C63.1 1992 - SAFETY LIMIT																	Body								
Spatial Peak																	1.6 W/kg (mW/g)								
Uncontrolled Exposure/General Population																	averaged over 1 gram								

Table 10-92 Antenna 4b

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]	
Body	NR Band n77 DoD	100	QPSK	4b	274TV	1:1	-0.01	3500.01	633334	DFT-s-OFDM	0.0	10.80	9.66	1	137	Back	0	0.439	0.136	1.300	0.571	0.177		12.2	10.3	
Body	NR Band n77 DoD	100	QPSK	4b	274TV	1:1	0.03	3500.01	633334	DFT-s-OFDM	0.0	10.80	9.65	135	0	Back	0	0.417	0.129	1.303	0.543	0.168		12.4		
Body	NR Band n77 DoD	100	QPSK	4b	274TV	1:1	0.07	3500.01	633334	DFT-s-OFDM	0.0	10.80	9.55	270	0	Back	0	0.472	0.144	1.334	0.630	0.192		11.8		
Body	NR Band n77 DoD	100	QPSK	4b	274TV	1:1	0.14	3500.01	633334	DFT-s-OFDM	0.0	10.80	9.66	1	137	Top	0	0.632	0.180	1.300	0.822	0.234		10.6		
Body	NR Band n77 DoD	100	QPSK	4b	274TV	1:1	0.06	3500.01	633334	DFT-s-OFDM	0.0	10.80	9.65	135	0	Top	0	0.639	0.184	1.303	0.833	0.240		10.6		
Body	NR Band n77 DoD	100	QPSK	4b	274TV	1:1	0.03	3500.01	633334	DFT-s-OFDM	0.0	10.80	9.55	270	0	Top	0	0.621	0.176	1.334	0.828	0.235		10.6		
Body	NR Band n77 DoD	100	QPSK	4b	274TV	1:1	-0.04	3500.01	633334	CP-OFDM	0.0	10.80	9.37	1	1	Top	0	0.636	0.183	1.390	0.884	0.254		10.3		
Body	NR Band n77 DoD	100	QPSK	4b	274TV	1:1	0.03	3500.01	633334	DFT-s-OFDM	0.0	10.80	9.66	1	137	Bottom	0	0.000	0.000	1.300	0.000	0.000		48.6		
Body	NR Band n77 DoD	100	QPSK	4b	274TV	1:1	0.01	3500.01	633334	DFT-s-OFDM	0.0	10.80	9.65	135	0	Bottom	0	0.000	0.000	1.303	0.000	0.000		48.6		
Body	NR Band n77 DoD	100	QPSK	4b	274TV	1:1	0.07	3500.01	633334	DFT-s-OFDM	0.0	10.80	9.66	1	137	Right	0	0.005	0.000	1.300	0.007	0.000		31.7		
Body	NR Band n77 DoD	100	QPSK	4b	274TV	1:1	0.01	3500.01	633334	DFT-s-OFDM	0.0	10.80	9.65	135	0	Right	0	0.004	0.000	1.303	0.005	0.000		32.6		
Body	NR Band n77 DoD	100	QPSK	4b	274TV	1:1	0.09	3500.01	633334	DFT-s-OFDM	0.0	10.80	9.66	1	137	Left	0	0.021	0.006	1.300	0.027	0.008		25.4		
Body	NR Band n77 DoD	100	QPSK	4b	274TV	1:1	0.00	3500.01	633334	DFT-s-OFDM	0.0	10.80	9.65	135	0	Left	0	0.021	0.006	1.303	0.027	0.008		25.4		
ANSI/IEEE C63.1 1992 - SAFETY LIMIT																	Body		1.6 W/kg (mW/g)					averaged over 1 gram		
Spatial Peak Uncontrolled Exposure/General Population																										

10.2 2.4 GHz WIFI SISO Standalone SAR

Table 10-93 Antenna 4a

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	4a	3QT40	99.36	0.00	2412	1	1	11.75	10.98	Back	0	V2	0.916	0.386	1.194	1.006	1.100	0.464	A30
Body	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	4a	3QT40	99.36	0.00	2437	6	1	11.75	11.12	Back	0	V2	0.970	0.405	1.156	1.006	1.128	0.471	
Body	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	4a	DFTPH	99.36	0.01	2437	6	1	11.75	11.15	Back	0	V1	1.020	0.424	1.148	1.006	1.178	0.490	
Body	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	4a	3QT40	99.36	-0.02	2462	11	1	11.75	11.16	Back	0	V2	0.948	0.392	1.146	1.006	1.093	0.452	
Body	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	4a	3QT40	99.36	0.00	2462	11	1	11.75	11.16	Top	0	V2	0.934	0.107	1.146	1.006	0.385	0.123	
Body	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	4a	3QT40	99.36	0.03	2462	11	1	11.75	11.16	Bottom	0	V2	0.017	0.007	1.146	1.006	0.020	0.008	
Body	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	4a	3QT40	99.36	0.03	2462	11	1	11.75	11.16	Right	0	V2	0.000	0.000	1.146	1.006	0.000	0.000	
Body	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	4a	3QT40	99.36	0.00	2412	1	1	11.75	10.98	Left	0	V2	0.822	0.297	1.194	1.006	0.987	0.357	
Body	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	4a	3QT40	99.36	0.07	2437	6	1	11.75	11.12	Left	0	V2	0.873	0.312	1.156	1.006	1.015	0.363	
Body	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	4a	3QT40	99.36	-0.14	2462	11	1	11.75	11.16	Left	0	V2	0.856	0.304	1.146	1.006	0.987	0.350	
Body	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	4a	DFTPH	99.36	-0.05	2462	11	1	6.25	5.20	Back	0	V1	0.187	0.077	1.274	1.006	0.240	0.099	
Body	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	4a	DFTPH	99.36	-0.05	2462	11	1	6.25	5.20	Top	0	V1	0.064	0.020	1.274	1.006	0.082	0.026	
Body	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	4a	DFTPH	99.36	-0.04	2462	11	1	6.25	5.20	Left	0	V1	0.171	0.060	1.274	1.006	0.219	0.077	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																						
Spatial Peak																						
Uncontrolled Exposure/General Population																1.6 W/kg (mW/g) averaged over 1 gram						

Table 10-94 Antenna 2a

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	2a	3Q40T	99.36	0.00	2412	1	1	12.00	11.27	Back	0	V2	0.981	0.409	1.183	1.006	1.167	0.487	
Body	2.4 GHz WiFi/ IEEE 802.11b	22	DSSS	2a	76XCF	99.36	0.01	2412	1	1	12.00	11.15	Back	0	V1	0.965	0.400	1.216	1.006	1.180	0.489	
Body	2.4 GHz WiFi/ IEEE 802.11b	22	DSSS	2a	3Q40T	99.36	0.01	2437	6	1	12.00	11.30	Back	0	V2	0.917	0.381	1.175	1.006	1.084	0.450	
Body	2.4 GHz WiFi/ IEEE 802.11b	22	DSSS	2a	3Q40T	99.36	0.01	2437	11	1	12.00	11.23	Back	0	V2	0.938	0.376	1.183	1.006	1.112	0.461	
Body	2.4 GHz WiFi/ IEEE 802.11b	22	DSSS	2a	3Q40T	99.36	0.02	2437	6	1	12.00	11.30	Top	0	V2	0.919	0.008	1.175	1.006	0.022	0.009	
Body	2.4 GHz WiFi/ IEEE 802.11b	22	DSSS	2a	3Q40T	99.36	0.00	2437	6	1	12.00	11.30	Bottom	0	V2	0.381	0.121	1.175	1.006	0.450	0.143	
Body	2.4 GHz WiFi/ IEEE 802.11b	22	DSSS	2a	3Q40T	99.36	0.00	2412	1	1	12.00	11.27	Right	0	V2	0.861	0.311	1.183	1.006	1.025	0.370	
Body	2.4 GHz WiFi/ IEEE 802.11b	22	DSSS	2a	3Q40T	99.36	-0.01	2437	6	1	12.00	11.30	Right	0	V2	0.856	0.309	1.175	1.006	1.012	0.365	
Body	2.4 GHz WiFi/ IEEE 802.11b	22	DSSS	2a	3Q40T	99.36	0.00	2462	11	1	12.00	11.23	Right	0	V2	0.857	0.307	1.194	1.006	1.029	0.369	
Body	2.4 GHz WiFi/ IEEE 802.11b	22	DSSS	2a	3Q40T	99.36	0.02	2437	6	1	12.00	11.30	Left	0	V2	0.002	0.000	1.175	1.006	0.002	0.000	
Body	2.4 GHz WiFi/ IEEE 802.11b	22	DSSS	2a	76XCF	99.36	-0.02	2462	11	1	6.50	5.62	Back	0	V1	0.095	0.233	1.183	1.006	0.237	0.077	
Body	2.4 GHz WiFi/ IEEE 802.11b	22	DSSS	2a	76XCF	99.36	-0.12	2462	11	1	6.50	5.62	Bottom	0	V1	0.090	0.026	1.225	1.006	0.111	0.035	
Body	2.4 GHz WiFi/ IEEE 802.11b	22	DSSS	2a	76XCF	99.36	0.07	2462	11	1	6.50	5.62	Right	0	V1	0.205	0.073	1.225	1.006	0.253	0.090	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																Body						
Spatial Peak																1.6 W/kg (mW/g)						
Uncontrolled Exposure/General Population																averaged over 1 gram						

10.3 5 GHz WIFI SISO Standalone SAR

Table 10-95 Antenna WF5B U-NII-1

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NII band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #
Body	5 GHz WiFi / IEEE 802.11n	40	OFDM	WF58	QK49K	97.72	-0.17	5230	46	U-NII-1	13.5	17.50	16.57	Back	0	V2	0.208	0.081	1.239	1.023	0.264	0.103	
Body	5 GHz WiFi / IEEE 802.11n	40	OFDM	WF58	QK49K	97.72	0.01	5230	46	U-NII-1	13.5	17.50	16.57	Top	0	V2	0.020	0.008	1.239	1.023	0.000	0.000	
Body	5 GHz WiFi / IEEE 802.11n	40	OFDM	WF58	QK49K	97.72	0.02	5230	46	U-NII-1	13.5	17.50	16.57	Bottom	0	V2	0.024	0.005	1.239	1.023	0.030	0.006	
Body	5 GHz WiFi / IEEE 802.11n	40	OFDM	WF58	QK49K	97.72	0.07	5190	38	U-NII-1	13.5	14.50	13.44	Right	0	V2	0.396	0.140	1.276	1.023	0.517	0.183	
Body	5 GHz WiFi / IEEE 802.11n	40	OFDM	WF58	TZ7P4	97.73	-0.04	5230	46	U-NII-1	13.5	17.50	16.60	Right	0	V1	0.839	0.298	1.230	1.023	1.056	0.375	
Body	5 GHz WiFi / IEEE 802.11n	40	OFDM	WF58	QK49K	97.72	-0.18	5230	46	U-NII-1	13.5	17.50	16.57	Right	0	V2	0.917	0.329	1.239	1.023	1.162	0.417	
Body	5 GHz WiFi / IEEE 802.11n	40	OFDM	WF58	QK49K	97.72	0.01	5230	46	U-NII-1	13.5	17.50	16.57	Left	0	V2	0.016	0.000	1.239	1.023	0.020	0.004	
ANSI/IEEE C95.1-1992 - SAFETY LIMIT																		Body 1.6 W/kg (mW/g) averaged over 1 gram					
Spatial Peak																							
Uncontrolled Exposure/General Population																							

Table 10-96 Antenna WF5B U-NII-2C

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NII band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Add'l info	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #
Body	5 GHz WiFi/ IEEE 802.11ac	80	OFDM	WFSB	QK49K	95.24	0.02	5690	138	U-NII-2C	29.3	16.50	14.84	Back	0	V2	0.086	0.031	1.466	1.050	0.132	0.048	
Body	5 GHz WiFi/ IEEE 802.11ac	80	OFDM	WFSB	QK49K	95.24	0.04	5690	138	U-NII-2C	29.3	16.50	14.84	Top	0	V2	0.000	0.000	1.466	1.050	0.000	0.000	
Body	5 GHz WiFi/ IEEE 802.11ac	80	OFDM	WFSB	QK49K	95.24	0.09	5690	138	U-NII-2C	29.3	16.50	14.84	Bottom	0	V2	0.019	0.004	1.466	1.050	0.029	0.006	
Body	5 GHz WiFi/ IEEE 802.11ac	80	OFDM	WFSB	QK49K	95.24	0.01	5530	106	U-NII-2C	29.3	15.25	14.85	Right	0	V2	0.769	0.242	1.096	1.050	0.885	0.278	
Body	5 GHz WiFi/ IEEE 802.11ac	80	OFDM	WFSB	QK49K	95.24	-0.10	5610	122	U-NII-2C	29.3	16.50	14.80	Right	0	V2	0.688	0.214	1.479	1.050	1.068	0.332	
Body	5 GHz WiFi/ IEEE 802.11ac	80	OFDM	WFSB	TZ774	95.24	0.17	5610	122	U-NII-2C	29.3	16.50	14.80	Right	0	V1	0.627	0.205	1.479	1.050	0.974	0.318	
Body	5 GHz WiFi/ IEEE 802.11ac	80	OFDM	WFSB	QK49K	95.24	-0.12	5690	138	U-NII-2C	29.3	16.50	14.84	Right	0	V2	0.997	0.186	1.466	1.050	0.919	0.286	
Body	5 GHz WiFi/ IEEE 802.11ac	80	OFDM	WFSB	QK49K	95.24	0.03	5690	138	U-NII-2C	29.3	16.50	14.84	Left	0	V2	0.009	0.002	1.466	1.050	0.014	0.003	
ANSI/IEEE C95.1-1992 - SAFETY LIMIT																							
Spatial Peak																		1.6 W/kg (mW/g)					
Uncontrolled Exposure/General Population																		averaged over 1 gram					

Table 10-97 Antenna WF5B U-NII-3

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Dftr [dB]	Frequency [MHz]	Channel #	U-NII band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Text Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	WF58	FW1J2	95.24	-0.09	5775	155	U-NII-3	29.3	17.50	15.55	Back	Top	0 V2	0.098	0.023	1.567	1.050	0.161	0.038	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	WF58	FW1J2	95.24	0.07	5775	155	U-NII-3	29.3	17.50	15.55	Top	0	V2	0.000	0.000	1.567	1.050	0.000	0.000	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	WF58	FW1J2	95.24	0.07	5775	155	U-NII-3	29.3	17.50	15.55	Bottom	0	V2	0.014	0.000	1.567	1.050	0.023	0.000	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	WF58	T2704	95.24	0.09	5775	155	U-NII-3	29.3	17.50	15.51	Right	0	V1	0.056	0.195	1.567	1.050	0.089	0.314	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	WF58	FW1J2	95.24	0.08	5775	155	U-NII-3	29.3	17.50	15.55	Right	0	V2	0.088	0.214	1.567	1.050	0.132	0.352	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	WF58	FW1J2	95.24	0.07	5775	155	U-NII-3	29.3	17.50	15.55	Left	0	V2	0.005	0.000	1.567	1.050	0.008	0.000	
ANSI/IEEE C95.1-1992 - SAFETY LIMIT																	Body						
Spatial Peak																	1.6 W/kg (mW/g)						
Uncontrolled Exposure / General Population																	averaged over 1.6gm						

Table 10-98 Antenna 4a U-NII-2A

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NII band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #
Body	5 GHz WiFi/ IEEE 802.11ac	80	OFDM	4a	T27P4	95.24	-0.03	5290	58	U-NII-2A	29.3	8.00	7.00	Back	0	V1	0.827	0.196	1.259	1.050	1.093	0.259	
Body	5 GHz WiFi/ IEEE 802.11ac	80	OFDM	4a	QKX03	95.24	0.02	5290	58	U-NII-2A	29.3	8.00	7.00	Back	0	V2	0.896	0.219	1.259	1.050	1.184	0.290	
Body	5 GHz WiFi/ IEEE 802.11ac	80	OFDM	4a	QKX03	95.24	-0.08	5290	58	U-NII-2A	29.3	8.00	7.00	Top	0	V1	0.130	0.034	1.259	1.050	0.172	0.045	
Body	5 GHz WiFi/ IEEE 802.11ac	80	OFDM	4a	QKX03	95.24	0.02	5290	58	U-NII-2A	29.3	8.00	7.00	Bottom	0	V2	0.001	0.000	1.259	1.050	0.001	0.000	
Body	5 GHz WiFi/ IEEE 802.11ac	80	OFDM	4a	QKX03	95.24	0.02	5290	58	U-NII-2A	29.3	8.00	7.00	Right	0	V2	0.000	0.000	1.259	1.050	0.000	0.000	
Body	5 GHz WiFi/ IEEE 802.11ac	80	OFDM	4a	QKX03	95.24	-0.03	5290	58	U-NII-2A	29.3	8.00	7.00	Left	0	V2	0.266	0.051	1.259	1.050	0.352	0.067	
Body	5 GHz WiFi/ IEEE 802.11ac	80	OFDM	4a	QKX03	95.24	0.10	5290	58	U-NII-2A	29.3	2.50	1.71	Back	0	V2	0.253	0.055	1.199	1.050	0.319	0.069	
Body	5 GHz WiFi/ IEEE 802.11ac	80	OFDM	4a	QKX03	95.24	0.01	5290	58	U-NII-2A	29.3	2.50	1.71	Top	0	V2	0.023	0.005	1.199	1.050	0.029	0.006	
Body	5 GHz WiFi/ IEEE 802.11ac	80	OFDM	4a	QKX03	95.24	0.01	5290	58	U-NII-2A	29.3	2.50	1.71	Left	0	V2	0.061	0.007	1.199	1.050	0.077	0.009	
ANSI/IEEE C63.1992 SAFETY LIMIT																		Body					
Spatial Peak																		1.6 W/g (mW/g)					
Uncontrolled Exposure/General Population																		averaged over 1g/gram					

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Table 10-99 Antenna 4a U-NII-2C

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NII band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #
Body	5 GHz WiFi/ IEEE 802.11ac	80	OFDM	4a	T27P4	95.24	0.01	5530	106	U-NII-2C	29.3	9.00	7.65	Back	0	V1	0.822	0.188	1.365	1.050	1.178	0.269	
Body	5 GHz WiFi/ IEEE 802.11ac	80	OFDM	4a	W1Y6P	95.24	-0.16	5530	106	U-NII-2C	29.3	9.00	7.59	Back	0	V2	0.800	0.188	1.384	1.050	1.163	0.273	
Body	5 GHz WiFi/ IEEE 802.11ac	80	OFDM	4a	T27P4	95.24	0.05	5610	122	U-NII-2C	29.3	9.00	7.55	Back	0	V1	0.797	0.181	1.396	1.050	1.168	0.265	
Body	5 GHz WiFi/ IEEE 802.11ac	80	OFDM	4a	T27P4	95.24	-0.02	5690	138	U-NII-2C	29.3	9.00	7.63	Back	0	V1	0.702	0.157	1.371	1.050	1.011	0.226	
Body	5 GHz WiFi/ IEEE 802.11ac	80	OFDM	4a	T27P4	95.24	-0.07	5530	106	U-NII-2C	29.3	9.00	7.66	Top	0	V1	0.142	0.041	1.365	1.050	0.204	0.055	
Body	5 GHz WiFi/ IEEE 802.11ac	80	OFDM	4a	T27P4	95.24	0.07	5530	106	U-NII-2C	29.3	9.00	7.65	Bottom	0	V1	0.000	0.000	1.365	1.050	0.000	0.000	
Body	5 GHz WiFi/ IEEE 802.11ac	80	OFDM	4a	T27P4	95.24	0.04	5530	106	U-NII-2C	29.3	9.00	7.65	Right	0	V1	0.000	0.000	1.365	1.050	0.000	0.000	
Body	5 GHz WiFi/ IEEE 802.11ac	80	OFDM	4a	T27P4	95.24	-0.06	5530	106	U-NII-2C	29.3	9.00	7.65	Left	0	V1	0.153	0.019	1.365	1.050	0.219	0.027	
Body	5 GHz WiFi/ IEEE 802.11ac	80	OFDM	4a	T27P4	95.24	-0.06	5530	106	U-NII-2C	29.3	3.50	2.76	Back	0	V1	0.254	0.058	1.186	1.050	0.316	0.072	
Body	5 GHz WiFi/ IEEE 802.11ac	80	OFDM	4a	T27P4	95.24	0.07	5530	106	U-NII-2C	29.3	3.50	2.76	Top	0	V1	0.032	0.005	1.186	1.050	0.040	0.006	
Body	5 GHz WiFi/ IEEE 802.11ac	80	OFDM	4a	T27P4	95.24	0.08	5530	106	U-NII-2C	29.3	3.50	2.76	Left	0	V1	0.047	0.005	1.186	1.050	0.059	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 10-100 Antenna 4a U-NII-3

Exposure	Band / Mode	Bandwidth	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NII band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #
Body	5 GHz WiFi/ IEEE 802.11ac	80	OFDM	4a	QKX03	95.24	-0.10	5775	155	U-NII-3	29.3	9.25	7.53	Back	0	V2	0.732	0.163	1.486	1.050	1.142	0.254	
Body	5 GHz WiFi/ IEEE 802.11ac	80	OFDM	4a	T27P4	95.24	-0.03	5775	155	U-NII-3	29.3	9.25	7.35	Back	0	V1	0.661	0.145	1.549	1.050	1.075	0.236	
Body	5 GHz WiFi/ IEEE 802.11ac	80	OFDM	4a	QKX03	95.24	0.06	5775	155	U-NII-3	29.3	9.25	7.53	Top	0	V2	0.098	0.026	1.486	1.050	0.153	0.041	
Body	5 GHz WiFi/ IEEE 802.11ac	80	OFDM	4a	QKX03	95.24	0.04	5775	155	U-NII-3	29.3	9.25	7.53	Bottom	0	V2	0.000	0.000	1.486	1.050	0.000	0.000	
Body	5 GHz WiFi/ IEEE 802.11ac	80	OFDM	4a	QKX03	95.24	0.06	5775	155	U-NII-3	29.3	9.25	7.53	Right	0	V2	0.000	0.000	1.486	1.050	0.000	0.000	
Body	5 GHz WiFi/ IEEE 802.11ac	80	OFDM	4a	QKX03	95.24	0.07	5775	155	U-NII-3	29.3	9.25	7.53	Left	0	V2	0.033	0.000	1.486	1.050	0.051	0.000	
Body	5 GHz WiFi/ IEEE 802.11ac	80	OFDM	4a	QKX03	95.24	-0.07	5775	155	U-NII-3	29.3	3.75	2.85	Back	0	V2	0.233	0.051	1.230	1.050	0.301	0.066	
Body	5 GHz WiFi/ IEEE 802.11ac	80	OFDM	4a	QKX03	95.24	0.08	5775	155	U-NII-3	29.3	3.75	2.85	Top	0	V2	0.030	0.005	1.230	1.050	0.039	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 10-101 Antenna 2a U-NII-1

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NII band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	2a	QKX03	95.24	0.03	5210	42	U-NII-1	29.3	8.50	8.02	Back	0	V2	0.901	0.241	1.117	1.050	1.057	0.283	A31
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	2a	T27P4	95.24	0.02	5210	42	U-NII-1	29.3	8.50	8.14	Back	0	V1	0.980	0.252	1.086	1.050	1.117	0.287	
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	2a	T27P4	95.24	0.02	5210	42	U-NII-1	29.3	8.50	8.14	Top	0	V1	0.000	0.000	1.086	1.050	0.000	0.000	
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	2a	T27P4	95.24	0.07	5210	42	U-NII-1	29.3	8.50	8.14	Bottom	0	V1	0.122	0.029	1.086	1.050	0.139	0.033	
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	2a	T27P4	95.24	0.01	5210	42	U-NII-1	29.3	8.50	8.14	Right	0	V1	0.343	0.066	1.086	1.050	0.391	0.075	
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	2a	T27P4	95.24	0.01	5210	42	U-NII-1	29.3	8.50	8.14	Left	0	V1	0.000	0.000	1.086	1.050	0.000	0.000	
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	2a	T27P4	95.24	-0.20	5210	42	U-NII-1	29.3	3.00	1.73	Back	0	V1	0.186	0.044	1.340	1.050	0.262	0.062	
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	2a	T27P4	95.24	0.04	5210	42	U-NII-1	29.3	3.00	1.73	Bottom	0	V1	0.015	0.002	1.340	1.050	0.021	0.003	
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	2a	T27P4	95.24	0.08	5210	42	U-NII-1	29.3	3.00	1.73	Right	0	V1	0.068	0.011	1.340	1.050	0.096	0.015	
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 10-102 Antenna 2a U-NII-2C

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NII band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	2a	QKX03	95.24	0.02	5530	106	U-NII-2C	29.3	9.25	7.60	Back	0	V2	0.668	0.165	1.462	1.050	1.025	0.253	
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	2a	T27P4	95.24	0.14	5530	106	U-NII-2C	29.3	9.25	7.65	Back	0	V1	0.780	0.179	1.445	1.050	1.183	0.272	
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	2a	T27P4	95.24	-0.07	5610	122	U-NII-2C	29.3	9.25	7.46	Back	0	V1	0.721	0.162	1.510	1.050	1.143	0.257	
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	2a	T27P4	95.24	-0.20	5690	138	U-NII-2C	29.3	9.25	7.66	Back	0	V1	0.641	0.143	1.442	1.050	0.971	0.217	
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	2a	T27P4	95.24	0.04	5690	138	U-NII-2C	29.3	9.25	7.66	Top	0	V1	0.000	0.000	1.442	1.050	0.000	0.000	
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	2a	T27P4	95.24	0.05	5690	138	U-NII-2C	29.3	9.25	7.66	Bottom	0	V1	0.090	0.016	1.442	1.050	0.136	0.024	
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	2a	T27P4	95.24	0.09	5690	138	U-NII-2C	29.3	9.25	7.66	Right	0	V1	0.169	0.023	1.442	1.050	0.256	0.035	
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	2a	T27P4	95.24	-0.05	5690	138	U-NII-2C	29.3	9.25	7.66	Left	0	V1	0.000	0.000	1.442	1.050	0.000	0.000	
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	2a	T27P4	95.24	-0.07	5530	106	U-NII-2C	29.3	3.75	3.04	Back	0	V1	0.265	0.056	1.178	1.050	0.328	0.069	
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	2a	T27P4	95.24	0.09	5530	106	U-NII-2C	29.3	3.75	3.04	Bottom	0	V1	0.024	0.000	1.178	1.050	0.030	0.000	
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	2a	T27P4	95.24	0.04	5530	106	U-NII-2C	29.3	3.75	3.04	Right	0	V1	0.079	0.006	1.178	1.050	0.098	0.007	
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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Table 10-103 Antenna 2a U-NII-3

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NII band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	2a	3Q4T0	95.24	-0.14	5775	155	U-NII-3	29.3	10.00	8.96	Back	0	V2	0.887	0.198	1.271	1.050	1.184	0.264	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	2a	T27P4	95.24	-0.05	5775	155	U-NII-3	29.3	10.00	8.85	Back	0	V1	0.784	0.180	1.303	1.050	1.073	0.246	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	2a	3Q4T0	95.24	0.07	5775	155	U-NII-3	29.3	10.00	8.96	Top	0	V2	0.000	0.000	1.271	1.050	0.000	0.000	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	2a	3Q4T0	95.24	-0.17	5775	155	U-NII-3	29.3	10.00	8.96	Bottom	0	V2	0.128	0.033	1.051	1.050	0.171	0.044	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	2a	3Q4T0	95.24	-0.06	5775	155	U-NII-3	29.3	10.00	8.96	Right	0	V2	0.255	0.040	1.271	1.050	0.340	0.053	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	2a	3Q4T0	95.24	0.07	5775	155	U-NII-3	29.3	10.00	8.96	Left	0	V2	0.000	0.000	1.271	1.050	0.000	0.000	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	2a	3Q4T0	95.24	-0.06	5775	155	U-NII-3	29.3	4.50	3.57	Back	0	V2	0.239	0.044	1.239	1.050	0.311	0.057	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	2a	3Q4T0	95.24	0.02	5775	155	U-NII-3	29.3	4.50	3.57	Bottom	0	V2	0.036	0.000	1.239	1.050	0.047	0.000	
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	2a	3Q4T0	95.24	0.08	5775	155	U-NII-3	29.3	4.50	3.57	Right	0	V2	0.052	0.000	1.239	1.050	0.068	0.000	
ANSI/IEEE C63.1 1992 - SAFETY LIMIT																	Body						
Spatial Peak																	1.6 W/kg (mW/g)						
Uncontrolled Exposure/General Population																	averaged over 1 gram						

10.4 6 GHz WIFI SISO Standalone SAR

Table 10-104 Antenna WF5B

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	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	WFSB	4R6K6	97.95	0.06	6345	79	68.1	15.50	14.19	Back	0	V1	0.115	0.041	1.352	1.021	0.159	0.057	
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	WFSB	4R6K6	97.95	0.06	6345	79	68.1	15.50	14.19	Top	0	V1	0.003	0.001	1.352	1.021	0.004	0.001	
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	WFSB	4R6K6	97.95	0.03	6345	79	68.1	15.50	14.19	Bottom	0	V1	0.088	0.029	1.352	1.021	0.121	0.040	
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	WFSB	4R6K6	97.95	-0.11	6025	15	68.1	15.25	14.71	Right	0	V1	0.863	0.269	1.132	1.021	0.997	0.311	
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	WFSB	4R6K6	97.95	-0.01	6345	79	68.1	15.50	14.19	Right	0	V1	0.828	0.262	1.352	1.021	1.143	0.362	
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	WFSB	HD1QY	97.95	0.09	6345	79	68.1	15.50	14.16	Right	0	V2	0.845	0.270	1.361	1.021	1.174	0.375	
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	WFSB	4R6K6	97.95	0.07	6505	111	68.1	14.25	12.60	Right	0	V1	0.691	0.222	1.462	1.021	1.031	0.331	
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	WFSB	4R6K6	97.95	-0.02	6665	143	68.1	13.75	12.94	Right	0	V1	0.905	0.294	1.205	1.021	1.113	0.362	
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	WFSB	4R6K6	97.95	0.01	6985	207	68.1	13.50	12.32	Right	0	V1	0.689	0.217	1.312	1.021	0.923	0.291	
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	WFSB	4R6K6	97.95	0.05	6345	79	68.1	15.50	14.19	Left	0	V1	0.026	0.007	1.352	1.021	0.036	0.010	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																	Body					
Spatial Peak																	1.6 W/kg (mW/g)					
Uncontrolled Exposure/General Population																	averaged over 1 gram					

Table 10-105 Antenna 4a

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 3g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 3g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	4a	QK0X3	97.95	-0.03	6025	15	68.1	7.75	6.05	Back	0	V2	0.773	0.194	1.479	1.021	1.167	0.293	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	4a	QK0X3	97.95	-0.03	6345	79	68.1	9.00	7.32	Back	0	V2	0.788	0.203	1.472	1.021	1.184	0.305	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	4a	Z30Q7	97.95	0.03	6345	79	68.1	9.00	7.35	Back	0	V1	0.792	0.202	1.462	1.021	1.182	0.302	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	4a	QK0X3	97.95	-0.03	6505	111	68.1	8.50	6.76	Back	0	V2	0.729	0.190	1.493	1.021	1.111	0.290	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	4a	QK0X3	97.95	0.00	6565	143	68.1	8.25	6.79	Back	0	V2	0.772	0.192	1.480	1.021	1.103	0.294	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	4a	QK0X3	97.95	-0.02	6985	207	68.1	8.00	7.99	Back	0	V2	1.140	0.297	1.002	1.021	1.166	0.304	A32
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	4a	QK0X3	97.95	0.06	6985	207	68.1	8.00	7.99	Back	0	V2	1.110	0.287	1.000	1.021	1.136	0.294	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	4a	QK0X3	97.95	0.06	6025	15	68.1	7.75	6.05	Top	0	V2	0.111	0.039	1.479	1.021	0.168	0.059	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	4a	QK0X3	97.95	-0.06	6345	79	68.1	9.00	7.32	Top	0	V2	0.127	0.040	1.474	1.021	0.191	0.060	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	4a	QK0X3	97.95	0.07	6025	15	68.1	7.75	6.05	Bottom	0	V2	0.003	0.000	1.479	1.021	0.000	0.000	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	4a	QK0X3	97.95	-0.07	6345	79	68.1	9.00	7.32	Bottom	0	V2	0.002	0.000	1.472	1.021	0.003	0.000	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	4a	QK0X3	97.95	0.05	6025	15	68.1	7.75	6.05	Right	0	V2	0.000	0.000	1.479	1.021	0.000	0.000	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	4a	QK0X3	97.95	0.01	6345	79	68.1	9.00	7.32	Right	0	V2	0.000	0.000	1.472	1.021	0.000	0.000	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	4a	QK0X3	97.95	0.03	6025	15	68.1	7.75	6.05	Left	0	V2	0.005	0.015	1.479	1.021	0.098	0.023	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	4a	QK0X3	97.95	0.10	6345	79	68.1	9.00	7.32	Left	0	V2	0.126	0.029	1.472	1.021	0.189	0.042	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	4a	QK0X3	97.95	0.01	6345	79	68.1	3.50	2.52	Back	0	V2	0.105	0.026	1.253	1.021	0.134	0.038	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	4a	QK0X3	97.95	0.07	6345	79	68.1	3.50	2.52	Top	0	V2	0.021	0.005	1.253	1.021	0.027	0.006	
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	4a	QK0X3	97.95	0.01	6345	79	68.1	3.50	2.52	Left	0	V2	0.009	0.001	1.253	1.021	0.012	0.001	
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

Table 10-106 Antenna 2a

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	2a	4R6K6	97.95	-0.01	6025	15	68.1	10.00	9.47	Back	0	V1	1.000	0.239	1.130	1.021	1.154	0.276	
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	2a	2WIQJ	97.95	-0.01	6025	15	68.1	10.00	9.73	Back	0	V2	1.090	0.260	1.064	1.021	1.184	0.282	
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	2a	2WIQJ	97.95	0.00	6345	79	68.1	8.25	6.72	Back	0	V2	0.783	0.188	1.422	1.021	1.137	0.273	
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	2a	2WIQJ	97.95	-0.02	6505	111	68.1	7.75	6.07	Back	0	V2	0.769	0.185	1.472	1.021	1.156	0.278	
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	2a	2WIQJ	97.95	-0.01	6665	143	68.1	8.75	7.82	Back	0	V2	0.693	0.168	1.560	1.021	1.068	0.268	
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	2a	2WIQJ	97.95	0.02	6985	207	68.1	8.25	6.37	Back	0	V2	0.736	0.177	1.542	1.021	1.159	0.279	
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	2a	2WIQJ	97.95	0.01	6025	15	68.1	10.00	9.73	Top	0	V2	0.000	0.000	1.064	1.021	0.000	0.000	
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	2a	2WIQJ	97.95	0.04	6025	15	68.1	10.00	9.73	Bottom	0	V2	0.149	0.050	1.064	1.021	0.162	0.054	
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	2a	2WIQJ	97.95	0.02	6025	15	68.1	10.00	9.73	Right	0	V2	0.122	0.027	1.064	1.021	0.133	0.029	
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	2a	2WIQJ	97.95	0.01	6025	15	68.1	10.00	9.73	Left	0	V2	0.000	0.000	1.064	1.021	0.000	0.000	
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	2a	2WIQJ	97.95	0.01	6025	15	68.1	4.50	3.53	Back	0	V2	0.177	0.041	1.250	1.021	0.226	0.052	
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	2a	2WIQJ	97.95	0.01	6025	15	68.1	4.50	3.53	Bottom	0	V2	0.028	0.009	1.250	1.021	0.036	0.011	
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	2a	2WIQJ	97.95	0.09	6025	15	68.1	4.50	3.53	Right	0	V2	0.016	0.003	1.250	1.021	0.020	0.004	
ANSI/IEEE CS-1.159C SAFETY LIMIT											Body											
Spatial Peak											1.6 W/kg (mW/g)											
Uncontrolled Exposure/General Population											averaged over 1 gram											

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10.5 6 GHz WLAN Body Absorbed Power Density Data

Table 10-107 Antenna 2a

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)]
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	2a	4R6K6	97.95	-0.01	6025	15	68.1	10.00	9.47	Back	0	V1	5.680	1.130	1.021	6.553
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	2a	2WJ0Q	97.95	-0.01	6025	15	68.1	10.00	9.73	Back	0	V2	6.180	1.064	1.021	6.714
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	2a	2WJ0Q	97.95	0.00	6345	79	68.1	8.25	6.72	Back	0	V2	4.460	1.422	1.021	6.475
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	2a	2WJ0Q	97.95	-0.02	6505	111	68.1	7.75	6.07	Back	0	V2	4.390	1.472	1.021	6.598
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	2a	2WJ0Q	97.95	-0.01	6665	143	68.1	9.75	7.82	Back	0	V2	4.000	1.560	1.021	6.371
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	2a	2WJ0Q	97.95	0.02	6985	207	68.1	8.25	6.37	Back	0	V2	4.200	1.542	1.021	6.612
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	2a	2WJ0Q	97.95	0.01	6025	15	68.1	10.00	9.73	Top	0	V2	0.002	1.064	1.021	0.002
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	2a	2WJ0Q	97.95	0.04	6025	15	68.1	10.00	9.73	Bottom	0	V2	1.130	1.064	1.021	1.228
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	2a	2WJ0Q	97.95	0.02	6025	15	68.1	10.00	9.73	Right	0	V2	0.636	1.064	1.021	0.691
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	2a	2WJ0Q	97.95	0.01	6025	15	68.1	10.00	9.73	Left	0	V2	0.003	1.064	1.021	0.003
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	2a	2WJ0Q	97.95	0.01	6025	15	68.1	4.50	3.53	Back	0	V2	0.973	1.250	1.021	1.242
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	2a	2WJ0Q	97.95	0.01	6025	15	68.1	4.50	3.53	Bottom	0	V2	0.203	1.250	1.021	0.259
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	2a	2WJ0Q	97.95	0.09	6025	15	68.1	4.50	3.53	Right	0	V2	0.073	1.250	1.021	0.093

Table 10-108 Antenna 4a

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)]
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	4a	QKX03	97.95	0.03	6025	15	68.1	7.75	6.05	Back	0	V2	4.600	1.479	1.021	6.946
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	4a	QKX03	97.95	0.03	6345	79	68.1	9.00	7.32	Back	0	V2	4.800	1.472	1.021	7.214
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	4a	230Y	97.95	0.03	6345	79	68.1	9.00	7.35	Back	0	V1	4.790	1.462	1.021	7.150
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	4a	QKX03	97.95	-0.03	6505	111	68.1	8.50	6.76	Back	0	V2	4.500	1.493	1.021	6.860
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	4a	QKX03	97.95	0.00	6665	143	68.1	8.25	6.79	Back	0	V2	4.870	1.400	1.021	6.961
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	4a	QKX03	97.95	-0.02	6985	207	68.1	8.00	7.99	Back	0	V2	6.990	1.002	1.021	7.151
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	4a	QKX03	97.95	0.08	6985	207	68.1	8.00	7.99	Back	0	V2	6.780	1.002	1.021	6.936
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	4a	QKX03	97.95	0.06	6025	15	68.1	7.75	6.05	Top	0	V2	0.882	1.479	1.021	1.332
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	4a	QKX03	97.95	-0.06	6345	79	68.1	9.00	7.32	Top	0	V2	0.911	1.472	1.021	1.369
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	4a	QKX03	97.95	0.07	6025	15	68.1	7.75	6.05	Bottom	0	V2	0.004	1.479	1.021	0.006
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	4a	QKX03	97.95	-0.07	6345	79	68.1	9.00	7.32	Bottom	0	V2	0.012	1.472	1.021	0.018
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	4a	QKX03	97.95	0.05	6025	15	68.1	7.75	6.05	Right	0	V2	0.000	1.479	1.021	0.000
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	4a	QKX03	97.95	0.01	6345	79	68.1	9.00	7.32	Right	0	V2	0.005	1.472	1.021	0.008
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	4a	QKX03	97.95	0.03	6025	15	68.1	7.75	6.05	Left	0	V2	0.351	1.479	1.021	0.530
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	4a	QKX03	97.95	0.10	6345	79	68.1	9.00	7.32	Left	0	V2	0.664	1.472	1.021	0.998
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	4a	QKX03	97.95	0.01	6345	79	68.1	3.50	2.52	Back	0	V2	0.620	1.253	1.021	0.793
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	4a	QKX03	97.95	0.07	6345	79	68.1	3.50	2.52	Top	0	V2	0.125	1.253	1.021	0.160
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	4a	QKX03	97.95	0.01	6345	79	68.1	3.50	2.52	Left	0	V2	0.036	1.253	1.021	0.046

Table 10-109 Antenna WF5B

Exposure	Band/ Mode	Bandwidth [MHz]	Service/ Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Add'l Info	Measured APD [W/m ² (4cm ²)]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported APD [W/m ² (4cm ²)]
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	WF5B	4R6K6	97.95	0.06	6345	79	68.1	15.50	14.19	Back	0	V1	0.915	1.352	1.021	1.263
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	WF5B	4R6K6	97.95	0.06	6345	79	68.1	15.50	14.19	Top	0	V1	0.031	1.352	1.021	0.043
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	WF5B	4R6K6	97.95	0.03	6345	79	68.1	15.50	14.19	Bottom	0	V1	0.655	1.352	1.021	0.904
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	WF5B	4R6K6	97.95	-0.11	6025	15	68.1	15.25	14.71	Right	0	V1	6.130	1.132	1.021	7.085
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	WF5B	4R6K6	97.95	-0.01	6345	79	68.1	15.50	14.19	Right	0	V1	5.980	1.352	1.021	8.255
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	WF5B	HDJQY	97.95	0.09	6345	79	68.1	15.50	14.16	Right	0	V2	6.150	1.361	1.021	8.546
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	WF5B	4R6K6	97.95	0.07	6505	111	68.1	14.25	12.60	Right	0	V1	5.650	1.462	1.021	7.538
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	WF5B	4R6K6	97.95	-0.02	6665	143	68.1	13.75	12.94	Right	0	V1	6.690	1.205	1.021	8.231
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	WF5B	4R6K6	97.95	0.01	6985	207	68.1	13.50	12.32	Right	0	V1	4.960	1.312	1.021	6.644
Body	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	WF5B	4R6K6	97.95	0.05	6345	79	68.1	15.50	14.19	Left	0	V1	0.172	1.352	1.021	0.237

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10.6 2.4 GHz Bluetooth SISO Standalone SAR

Table 10-110 Antenna 4a

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #
Body	2.4 GHz Bluetooth	FHSS	4a	04M96	77.0	0.01	2402	0	1	12.50	11.70	Back	0	V1	0.935	0.391	1.202	1.006	1.131	0.473	
Body	2.4 GHz Bluetooth	FHSS	4a	3Q4T0	77.0	0.00	2402	0	1	12.50	11.88	Back	0	V2	0.953	0.399	1.153	1.006	1.106	0.463	
Body	2.4 GHz Bluetooth	FHSS	4a	04M96	77.0	-0.05	2441	39	1	12.50	11.98	Back	0	V1	0.812	0.340	1.127	1.006	0.921	0.386	
Body	2.4 GHz Bluetooth	FHSS	4a	04M96	77.0	0.00	2480	78	1	12.50	11.64	Back	0	V1	0.918	0.385	1.219	1.006	1.126	0.472	
Body	2.4 GHz Bluetooth	FHSS	4a	04M96	77.0	-0.01	2441	39	1	12.50	11.98	Top	0	V1	0.310	0.098	1.127	1.006	0.352	0.111	
Body	2.4 GHz Bluetooth	FHSS	4a	04M96	77.0	0.03	2441	39	1	12.50	11.98	Bottom	0	V1	0.018	0.005	1.127	1.006	0.020	0.006	
Body	2.4 GHz Bluetooth	FHSS	4a	04M96	77.0	0.09	2441	39	1	12.50	11.98	Right	0	V1	0.000	0.000	1.127	1.006	0.000	0.000	
Body	2.4 GHz Bluetooth	FHSS	4a	04M96	77.0	0.02	2402	0	1	12.50	11.70	Left	0	V1	0.799	0.289	1.202	1.006	0.967	0.350	
Body	2.4 GHz Bluetooth	FHSS	4a	04M96	77.0	0.04	2441	39	1	12.50	11.98	Left	0	V1	0.758	0.272	1.127	1.006	0.860	0.309	
Body	2.4 GHz Bluetooth	FHSS	4a	04M96	77.0	-0.01	2480	78	1	12.50	11.64	Left	0	V1	0.788	0.281	1.219	1.006	0.967	0.345	
Body	2.4 GHz Bluetooth	FHSS	4a	04M96	77.0	0.02	2441	39	1	9.50	8.52	Back	0	V1	0.471	0.196	1.253	1.006	0.594	0.247	
Body	2.4 GHz Bluetooth	FHSS	4a	04M96	77.0	0.04	2441	39	1	9.50	8.52	Top	0	V1	0.164	0.052	1.253	1.006	0.207	0.066	
Body	2.4 GHz Bluetooth	FHSS	4a	04M96	77.0	0.02	2441	39	1	9.50	8.52	Left	0	V1	0.413	0.150	1.253	1.006	0.521	0.189	
Body	2.4 GHz Bluetooth	FHSS	4a	04M96	77.0	0.02	2441	39	1	6.50	5.46	Back	0	V1	0.243	0.101	1.271	1.006	0.311	0.129	
Body	2.4 GHz Bluetooth	FHSS	4a	04M96	77.0	0.03	2441	39	1	6.50	5.46	Top	0	V1	0.078	0.024	1.271	1.006	0.100	0.031	
Body	2.4 GHz Bluetooth	FHSS	4a	04M96	77.0	0.05	2441	39	1	6.50	5.46	Left	0	V1	0.200	0.072	1.271	1.006	0.256	0.092	
Body	2.4 GHz Bluetooth	FHSS	4a	04M96	77.0	-0.09	2441	39	1	5.50	4.52	Back	0	V1	0.183	0.077	1.253	1.006	0.231	0.097	
Body	2.4 GHz Bluetooth	FHSS	4a	04M96	77.0	0.06	2441	39	1	5.50	4.52	Top	0	V1	0.056	0.017	1.253	1.006	0.071	0.021	
Body	2.4 GHz Bluetooth	FHSS	4a	04M96	77.0	0.04	2441	39	1	5.50	4.52	Left	0	V1	0.145	0.052	1.253	1.006	0.183	0.066	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT											Body										
Spatial Peak											1.6 W/kg (mW/g)										
Uncontrolled Exposure/General Population											averaged over 1 gram										

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

Table 10-111 Antenna 2a

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #
Body	2.4 GHz Bluetooth	FHSS	2a	3Q4T0	77.0	-0.07	2402	0	1	12.50	11.40	Back	0	V2	0.861	0.356	1.288	1.006	1.116	0.462	
Body	2.4 GHz Bluetooth	FHSS	2a	3Q4T0	77.0	0.03	2441	39	1	12.50	11.45	Back	0	V2	0.907	0.378	1.274	1.006	1.163	0.485	
Body	2.4 GHz Bluetooth	FHSS	2a	76KCF	77.0	0.01	2441	39	1	12.50	11.70	Back	0	V1	0.953	0.396	1.202	1.006	1.153	0.479	A33
Body	2.4 GHz Bluetooth	FHSS	2a	3Q4T0	77.0	-0.02	2480	78	1	12.50	11.75	Back	0	V2	0.866	0.358	1.189	1.006	1.036	0.428	
Body	2.4 GHz Bluetooth	FHSS	2a	3Q4T0	77.0	0.07	2480	78	1	12.50	11.75	Top	0	V2	0.024	0.008	1.189	1.006	0.029	0.010	
Body	2.4 GHz Bluetooth	FHSS	2a	3Q4T0	77.0	0.02	2480	78	1	12.50	11.75	Bottom	0	V2	0.371	0.116	1.189	1.006	0.444	0.139	
Body	2.4 GHz Bluetooth	FHSS	2a	3Q4T0	77.0	-0.01	2402	0	1	12.50	11.40	Right	0	V2	0.783	0.284	1.288	1.006	1.015	0.368	
Body	2.4 GHz Bluetooth	FHSS	2a	3Q4T0	77.0	0.05	2441	39	1	12.50	11.45	Right	0	V2	0.802	0.287	1.274	1.006	1.028	0.368	
Body	2.4 GHz Bluetooth	FHSS	2a	3Q4T0	77.0	0.03	2480	78	1	12.50	11.75	Right	0	V2	0.852	0.303	1.189	1.006	1.020	0.363	
Body	2.4 GHz Bluetooth	FHSS	2a	3Q4T0	77.0	0.03	2480	78	1	12.50	11.75	Left	0	V2	0.000	0.000	1.189	1.006	0.000	0.000	
Body	2.4 GHz Bluetooth	FHSS	2a	3Q4T0	77.0	0.06	2441	39	1	9.50	8.48	Back	0	V2	0.419	0.173	1.265	1.006	0.533	0.220	
Body	2.4 GHz Bluetooth	FHSS	2a	3Q4T0	77.0	-0.15	2441	39	1	9.50	8.48	Bottom	0	V2	0.126	0.040	1.265	1.006	0.160	0.051	
Body	2.4 GHz Bluetooth	FHSS	2a	3Q4T0	77.0	-0.03	2441	39	1	9.50	8.48	Right	0	V2	0.350	0.126	1.265	1.006	0.446	0.160	
Body	2.4 GHz Bluetooth	FHSS	2a	3Q4T0	77.0	-0.03	2441	39	1	6.50	5.56	Back	0	V2	0.217	0.089	1.242	1.006	0.271	0.111	
Body	2.4 GHz Bluetooth	FHSS	2a	3Q4T0	77.0	0.13	2441	39	1	6.50	5.56	Bottom	0	V2	0.062	0.019	1.242	1.006	0.078	0.024	
Body	2.4 GHz Bluetooth	FHSS	2a	3Q4T0	77.0	0.05	2441	39	1	6.50	5.56	Right	0	V2	0.175	0.063	1.242	1.006	0.219	0.079	
Body	2.4 GHz Bluetooth	FHSS	2a	3Q4T0	77.0	-0.04	2441	39	1	5.50	4.49	Back	0	V2	0.169	0.070	1.262	1.006	0.215	0.089	
Body	2.4 GHz Bluetooth	FHSS	2a	3Q4T0	77.0	-0.02	2441	39	1	5.50	4.49	Bottom	0	V2	0.047	0.014	1.262	1.006	0.060	0.018	
Body	2.4 GHz Bluetooth	FHSS	2a	3Q4T0	77.0	0.10	2441	39	1	5.50	4.49	Right	0	V2	0.140	0.040	1.262	1.006	0.178	0.051	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT											Body										
Spatial Peak											1.6 W/kg (mW/g)										
Uncontrolled Exposure/General Population											averaged over 1 gram										

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

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10.7 2.4 GHz 802.15.4 Standalone SAR

Table 10-112 Antenna 4a

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	4a	3Q4T0	0.00	2405	11	13.50	12.20	Back	0	V2	1.150	0.461	1.349	0.931	0.373	
Body	802.15.4	4a	3Q4T0	0.01	2440	18	13.50	12.19	Back	0	V2	1.400	0.561	1.352	1.136	0.455	
Body	802.15.4	4a	DFTPH	0.00	2440	18	13.50	11.94	Back	0	V1	1.140	0.456	1.432	0.979	0.392	
Body	802.15.4	4a	3Q4T0	0.04	2475	25	13.50	12.25	Back	0	V2	1.390	0.547	1.334	1.113	0.438	
Body	802.15.4	4a	3Q4T0	-0.08	2475	25	13.50	12.25	Top	0	V2	0.444	0.144	1.334	0.355	0.115	
Body	802.15.4	4a	3Q4T0	-0.18	2475	25	13.50	12.25	Bottom	0	V2	0.029	0.012	1.334	0.023	0.010	
Body	802.15.4	4a	3Q4T0	0.06	2475	25	13.50	12.25	Right	0	V2	0.000	0.000	1.334	0.000	0.000	
Body	802.15.4	4a	3Q4T0	0.05	2405	11	13.50	12.20	Left	0	V2	1.060	0.373	1.349	0.858	0.302	
Body	802.15.4	4a	3Q4T0	0.03	2440	18	13.50	12.19	Left	0	V2	1.010	0.354	1.352	0.819	0.287	
Body	802.15.4	4a	3Q4T0	-0.02	2475	25	13.50	12.25	Left	0	V2	1.250	0.437	1.334	1.001	0.350	
Body	802.15.4	4a	3Q4T0	0.01	2440	18	10.50	9.75	Back	0	V2	0.690	0.279	1.189	0.492	0.199	
Body	802.15.4	4a	3Q4T0	-0.03	2440	18	10.50	9.75	Top	0	V2	0.248	0.077	1.189	0.177	0.055	
Body	802.15.4	4a	3Q4T0	-0.01	2440	18	10.50	9.75	Left	0	V2	0.634	0.221	1.189	0.452	0.158	
Body	802.15.4	4a	3Q4T0	-0.02	2440	18	7.50	6.21	Back	0	V2	0.309	0.125	1.346	0.250	0.101	
Body	802.15.4	4a	3Q4T0	-0.08	2440	18	7.50	6.21	Top	0	V2	0.113	0.035	1.346	0.091	0.028	
Body	802.15.4	4a	3Q4T0	0.02	2440	18	7.50	6.21	Left	0	V2	0.288	0.100	1.346	0.233	0.081	
Body	802.15.4	4a	3Q4T0	-0.03	2405	11	6.50	5.40	Back	0	V2	0.220	0.090	1.288	0.170	0.070	
Body	802.15.4	4a	3Q4T0	-0.04	2405	11	6.50	5.40	Top	0	V2	0.103	0.032	1.288	0.080	0.025	
Body	802.15.4	4a	3Q4T0	0.01	2405	11	6.50	5.40	Left	0	V2	0.193	0.067	1.288	0.149	0.052	
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 10-113 Antenna 2a

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	2a	76XCF	-0.01	2405	11	13.00	12.98	Back	0	V1	1.140	0.498	1.005	0.687	0.300	
Body	802.15.4	2a	76XCF	0.02	2440	18	13.00	12.62	Back	0	V1	0.823	0.339	1.091	0.539	0.222	
Body	802.15.4	2a	76XCF	0.00	2475	25	13.00	12.31	Back	0	V1	1.460	0.600	1.172	1.027	0.422	A34
Body	802.15.4	2a	3Q4T0	0.02	2475	25	13.00	12.41	Back	0	V2	1.420	0.580	1.146	0.976	0.399	
Body	802.15.4	2a	76XCF	0.00	2475	25	13.00	12.31	Back	0	V1	1.460	0.599	1.172	1.027	0.421	
Body	802.15.4	2a	76XCF	-0.02	2475	25	13.00	12.31	Back	0	V1	1.460	0.598	1.172	1.027	0.421	
Body	802.15.4	2a	76XCF	-0.05	2405	11	13.00	12.98	Top	0	V1	0.052	0.022	1.005	0.031	0.013	
Body	802.15.4	2a	76XCF	0.00	2405	11	13.00	12.98	Bottom	0	V1	0.413	0.129	1.005	0.249	0.078	
Body	802.15.4	2a	76XCF	0.01	2405	11	13.00	12.98	Right	0	V1	0.911	0.323	1.005	0.549	0.195	
Body	802.15.4	2a	76XCF	0.06	2405	11	13.00	12.98	Left	0	V1	0.000	0.000	1.005	0.000	0.000	
Body	802.15.4	2a	76XCF	0.01	2440	18	10.00	9.51	Back	0	V1	0.499	0.194	1.119	0.335	0.130	
Body	802.15.4	2a	76XCF	-0.05	2440	18	10.00	9.51	Bottom	0	V1	0.086	0.056	1.119	0.125	0.038	
Body	802.15.4	2a	76XCF	-0.02	2440	18	10.00	9.51	Right	0	V1	0.447	0.149	1.119	0.300	0.100	
Body	802.15.4	2a	76XCF	-0.02	2440	18	7.00	6.44	Back	0	V1	0.294	0.113	1.138	0.201	0.077	
Body	802.15.4	2a	76XCF	0.02	2440	18	7.00	6.44	Bottom	0	V1	0.109	0.033	1.138	0.074	0.023	
Body	802.15.4	2a	76XCF	0.04	2440	18	7.00	6.44	Right	0	V1	0.260	0.086	1.138	0.178	0.059	
Body	802.15.4	2a	76XCF	-0.01	2440	18	6.00	5.51	Back	0	V1	0.165	0.066	1.119	0.111	0.044	
Body	802.15.4	2a	76XCF	-0.01	2440	18	6.00	5.51	Bottom	0	V1	0.065	0.020	1.119	0.044	0.013	
Body	802.15.4	2a	76XCF	-0.08	2440	18	6.00	5.51	Right	0	V1	0.146	0.050	1.119	0.098	0.034	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT									Body								
Spatial Peak									1.6 W/kg (mW/g)								
Uncontrolled Exposure/General Population									averaged over 1 gram								

Note: Blue entry represents variability measurement

Note: The 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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Document S/N: 1C2311270068-02.BCG-R1	DUT Type: Tablet Device		Technical Manager
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10.8 5 GHz NB U-NII 1 Standalone SAR

Table 10-114 Antenna WF5B

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #
Body	NB U-NII 1	FHSS	WF5B	T27P4	76.5	0.03	5245	High	4	12.50	10.81	Back	0	V1	0.029	0.010	1.476	1.013	0.043	0.015	
Body	NB U-NII 1	FHSS	WF5B	T27P4	76.5	0.09	5245	High	4	12.50	10.81	Top	0	V1	0.000	0.000	1.476	1.013	0.000	0.000	
Body	NB U-NII 1	FHSS	WF5B	T27P4	76.5	0.01	5245	High	4	12.50	10.81	Bottom	0	V1	0.000	0.000	1.476	1.013	0.000	0.000	
Body	NB U-NII 1	FHSS	WF5B	T27P4	76.5	-0.14	5245	High	4	12.50	10.81	Right	0	V1	0.159	0.053	1.476	1.013	0.238	0.079	
Body	NB U-NII 1	FHSS	WF5B	QK49K	76.5	0.05	5245	High	4	12.50	10.51	Right	0	V2	0.165	0.055	1.581	1.013	0.264	0.088	
Body	NB U-NII 1	FHSS	WF5B	T27P4	76.5	0.01	5245	High	4	12.50	10.81	Left	0	V1	0.000	0.000	1.476	1.013	0.000	0.000	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT											Body										
Spatial Peak											1.6 W/kg (mW/g)										
Uncontrolled Exposure/General Population											averaged over 1 gram										

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

Table 10-115 Antenna 4a

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #
Body	NB U-NII 1	FHSS	4a	QKX03	77.0	0.03	5245	High	1	8.50	6.96	Back	0	V2	0.803	0.197	1.426	1.006	1.153	0.283	
Body	NB U-NII 1	FHSS	4a	QKX03	77.0	0.01	5162	Low	1	8.50	7.16	Back	0	V2	0.858	0.210	1.361	1.006	1.175	0.288	
Body	NB U-NII 1	FHSS	4a	T27P4	77.0	0.06	5162	Low	1	8.50	6.77	Back	0	V1	0.646	0.157	1.489	1.006	0.968	0.235	
Body	NB U-NII 1	FHSS	4a	QKX03	77.0	-0.02	5204	Mid	1	8.50	6.66	Back	0	V2	0.732	0.195	1.528	1.006	1.126	0.300	
Body	NB U-NII 1	FHSS	4a	QKX03	77.0	0.02	5162	Low	1	8.50	7.16	Top	0	V2	0.088	0.026	1.361	1.006	0.121	0.036	
Body	NB U-NII 1	FHSS	4a	QKX03	77.0	0.08	5162	Low	1	8.50	7.16	Bottom	0	V2	0.002	0.000	1.361	1.006	0.003	0.000	
Body	NB U-NII 1	FHSS	4a	QKX03	77.0	0.06	5162	Low	1	8.50	7.16	Right	0	V2	0.000	0.000	1.361	1.006	0.000	0.000	
Body	NB U-NII 1	FHSS	4a	QKX03	77.0	0.03	5162	Low	1	8.50	7.16	Left	0	V2	0.225	0.046	1.361	1.006	0.308	0.063	
Body	NB U-NII 1	FHSS	4a	QKX03	77.0	0.02	5162	Low	1	5.50	5.40	Back	0	V2	0.445	0.100	1.023	1.006	0.458	0.103	
Body	NB U-NII 1	FHSS	4a	QKX03	77.0	-0.14	5162	Low	1	5.50	5.40	Top	0	V2	0.053	0.010	1.023	1.006	0.055	0.010	
Body	NB U-NII 1	FHSS	4a	QKX03	77.0	0.04	5162	Low	1	5.50	5.40	Left	0	V2	0.080	0.011	1.023	1.006	0.082	0.011	
Body	NB U-NII 1	FHSS	4a	QKX03	77.0	-0.15	5162	Low	1	2.50	2.18	Back	0	V2	0.175	0.026	1.076	1.006	0.190	0.028	
Body	NB U-NII 1	FHSS	4a	QKX03	77.0	0.02	5162	Low	1	2.50	2.18	Top	0	V2	0.015	0.000	1.076	1.006	0.016	0.000	
Body	NB U-NII 1	FHSS	4a	QKX03	77.0	0.01	5162	Low	1	2.50	2.18	Left	0	V2	0.038	0.001	1.076	1.006	0.041	0.001	
Body	NB U-NII 1	FHSS	4a	QKX03	77.0	0.09	5162	Low	1	1.50	1.14	Back	0	V2	0.148	0.032	1.086	1.006	0.162	0.035	
Body	NB U-NII 1	FHSS	4a	QKX03	77.0	0.05	5162	Low	1	1.50	1.14	Top	0	V2	0.006	0.000	1.086	1.006	0.007	0.000	
Body	NB U-NII 1	FHSS	4a	QKX03	77.0	-0.11	5162	Low	1	1.50	1.14	Left	0	V2	0.028	0.000	1.086	1.006	0.031	0.000	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT											Body										
Spatial Peak											1.6 W/kg (mW/g)										
Uncontrolled Exposure/General Population											averaged over 1 gram										

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

Table 10-116 Antenna 2a

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #
Body	NB U-NII 1	FHSS	2a	T27P4	77.0	0.01	5245	High	1	9.00	8.57	Back	0	V1	0.888	0.225	1.104	1.006	0.987	0.250	
Body	NB U-NII 1	FHSS	2a	QKX03	77.0	0.03	5245	High	1	9.00	8.60	Back	0	V2	1.070	0.254	1.096	1.006	1.180	0.280	
Body	NB U-NII 1	FHSS	2a	QKX03	77.0	0.04	5245	High	1	9.00	8.60	Back	0	V2	0.963	0.240	1.096	1.006	1.062	0.265	
Body	NB U-NII 1	FHSS	2a	QKX03	77.0	0.20	5162	Low	1	9.00	8.35	Back	0	V2	0.946	0.231	1.161	1.006	1.105	0.270	
Body	NB U-NII 1	FHSS	2a	QKX03	77.0	-0.01	5204	Mid	1	9.00	8.48	Back	0	V2	0.933	0.232	1.127	1.006	1.058	0.263	
Body	NB U-NII 1	FHSS	2a	QKX03	77.0	0.06	5245	High	1	9.00	8.60	Top	0	V2	0.000	0.000	1.096	1.006	0.000	0.000	
Body	NB U-NII 1	FHSS	2a	QKX03	77.0	0.06	5245	High	1	9.00	8.60	Bottom	0	V2	0.093	0.028	1.096	1.006	0.103	0.031	
Body	NB U-NII 1	FHSS	2a	QKX03	77.0	-0.01	5245	High	1	9.00	8.60	Right	0	V2	0.379	0.077	1.096	1.006	0.418	0.085	
Body	NB U-NII 1	FHSS	2a	QKX03	77.0	0.01	5245	High	1	9.00	8.60	Left	0	V2	0.000	0.000	1.096	1.006	0.000	0.000	
Body	NB U-NII 1	FHSS	2a	QKX03	77.0	0.08	5204	Mid	1	6.00	5.51	Back	0	V2	0.293	0.071	1.119	1.006	0.330	0.080	
Body	NB U-NII 1	FHSS	2a	QKX03	77.0	0.08	5204	Mid	1	6.00	5.51	Bottom	0	V2	0.025	0.003	1.119	1.006	0.028	0.003	
Body	NB U-NII 1	FHSS	2a	QKX03	77.0	-0.11	5204	Mid	1	6.00	5.51	Right	0	V2	0.134	0.021	1.119	1.006	0.151	0.024	
Body	NB U-NII 1	FHSS	2a	QKX03	77.0	0.03	5245	High	1	3.00	2.65	Back	0	V2	0.216	0.048	1.084	1.006	0.236	0.052	
Body	NB U-NII 1	FHSS	2a	QKX03	77.0	0.09	5245	High	1	3.00	2.65	Bottom	0	V2	0.016	0.000	1.084	1.006	0.017	0.000	
Body	NB U-NII 1	FHSS	2a	QKX03	77.0	0.01	5245	High	1	3.00	2.65	Right	0	V2	0.082	0.009	1.084	1.006	0.089	0.010	
Body	NB U-NII 1	FHSS	2a	QKX03	77.0	-0.06	5162	Low	1	2.00	1.64	Back	0	V2	0.197	0.042	1.086	1.006	0.204	0.046	
Body	NB U-NII 1	FHSS	2a	QKX03	77.0	0.01	5162	Low	1	2.00	1.64	Bottom	0	V2	0.000	0.000	1.086	1.006	0.000	0.000	
Body	NB U-NII 1	FHSS	2a	QKX03	77.0	0.20	5162	Low	1	2.00	1.64	Right	0	V2	0.045	0.002	1.086	1.006	0.049	0.002	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT											Body										
Spatial Peak											1.6 W/kg (mW/g)										
Uncontrolled Exposure/General Population											averaged over 1 gram										

Note: Blue entry represents variability measurement

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

FCC ID: BCGA2837	SAR EVALUATION REPORT		Approved by:
Document S/N: 1C2311270068-02.BCG-R1	DUT Type: Tablet Device		Technical Manager
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10.9 5 GHz NB U-NII 3 Standalone SAR

Table 10-117 Antenna WF5B

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #
Body	NB U-NII 3	FHSS	WF5B	T27P4	77.0	0.01	5733	Low	1	13.50	11.58	Back	0	V1	0.023	0.002	1.556	1.006	0.036	0.003	
Body	NB U-NII 3	FHSS	WF5B	T27P4	77.0	0.03	5733	Low	1	13.50	11.58	Top	0	V1	0.000	0.000	1.556	1.006	0.000	0.000	
Body	NB U-NII 3	FHSS	WF5B	T27P4	77.0	0.05	5733	Low	1	13.50	11.58	Bottom	0	V1	0.002	0.000	1.556	1.006	0.003	0.000	
Body	NB U-NII 3	FHSS	WF5B	T27P4	77.0	0.01	5844	High	1	13.50	11.56	Right	0	V1	0.205	0.060	1.563	1.006	0.322	0.094	
Body	NB U-NII 3	FHSS	WF5B	QK49K	77.0	-0.07	5844	High	1	13.50	11.55	Right	0	V2	0.199	0.060	1.567	1.006	0.314	0.095	
Body	NB U-NII 3	FHSS	WF5B	T27P4	77.0	-0.03	5733	Low	1	13.50	11.58	Right	0	V1	0.179	0.054	1.556	1.006	0.280	0.085	
Body	NB U-NII 3	FHSS	WF5B	T27P4	77.0	-0.09	5789	Mid	1	13.50	11.55	Right	0	V1	0.199	0.059	1.567	1.006	0.314	0.093	
Body	NB U-NII 3	FHSS	WF5B	T27P4	77.0	0.02	5733	Low	1	13.50	11.58	Left	0	V1	0.000	0.000	1.556	1.006	0.000	0.000	
Body	NB U-NII 3	FHSS	WF5B	T27P4	77.0	0.01	5733	Low	1	13.00	11.13	Right	0	V1	0.127	0.038	1.538	1.006	0.197	0.059	
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 10-118 Antenna 4a

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #
Body	NB U-NII 3	FHSS	4a	76KCF	77.0	-0.05	5844	High	1	10.00	9.07	Back	0	V1	0.829	0.202	1.239	1.006	1.034	0.252	
Body	NB U-NII 3	FHSS	4a	QKX03	77.0	-0.04	5844	High	1	10.00	8.77	Back	0	V2	0.881	0.215	1.327	1.006	1.177	0.287	
Body	NB U-NII 3	FHSS	4a	QKX03	77.0	0.02	5844	High	1	10.00	8.77	Back	0	V2	0.876	0.214	1.327	1.006	1.170	0.286	
Body	NB U-NII 3	FHSS	4a	QKX03	77.0	-0.21	5733	Low	1	10.00	8.72	Back	0	V2	0.796	0.195	1.343	1.006	1.076	0.264	
Body	NB U-NII 3	FHSS	4a	QKX03	77.0	-0.01	5789	Mid	1	10.00	8.90	Back	0	V2	0.831	0.202	1.288	1.006	1.077	0.262	
Body	NB U-NII 3	FHSS	4a	QKX03	77.0	0.02	5789	Mid	1	10.00	8.90	Top	0	V2	0.088	0.027	1.288	1.006	0.114	0.035	
Body	NB U-NII 3	FHSS	4a	QKX03	77.0	0.02	5789	Mid	1	10.00	8.90	Bottom	0	V2	0.004	0.000	1.288	1.006	0.005	0.000	
Body	NB U-NII 3	FHSS	4a	QKX03	77.0	0.03	5789	Mid	1	10.00	8.90	Right	0	V2	0.000	0.000	1.288	1.006	0.000	0.000	
Body	NB U-NII 3	FHSS	4a	QKX03	77.0	0.06	5789	Mid	1	10.00	8.90	Left	0	V2	0.040	0.003	1.288	1.006	0.052	0.004	
Body	NB U-NII 3	FHSS	4a	QKX09	77.0	0.05	5844	High	1	7.00	6.28	Back	0	V2	0.330	0.068	1.180	1.006	0.392	0.081	
Body	NB U-NII 3	FHSS	4a	QKX09	77.0	0.09	5844	High	1	7.00	6.28	Top	0	V2	0.057	0.000	1.180	1.006	0.044	0.000	
Body	NB U-NII 3	FHSS	4a	QKX09	77.0	-0.11	5844	High	1	4.00	3.45	Back	0	V2	0.131	0.020	1.135	1.006	0.150	0.023	
Body	NB U-NII 3	FHSS	4a	QKX09	77.0	0.04	5844	High	1	4.00	3.45	Top	0	V2	0.019	0.000	1.135	1.006	0.022	0.000	
Body	NB U-NII 3	FHSS	4a	QKX09	77.0	0.05	5844	High	1	3.00	2.49	Back	0	V2	0.092	0.006	1.125	1.006	0.104	0.007	
Body	NB U-NII 3	FHSS	4a	QKX09	77.0	0.06	5844	High	1	3.00	2.49	Top	0	V2	0.006	0.000	1.125	1.006	0.007	0.000	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population															Body 1.6 W/kg (mW/g) averaged over 1 gram						

Note: Blue entry represents variability measurement

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 10-119 Antenna 2a

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #
Body	NB U-NII 3	FHSS	2a	3Q4T0	77.0	0.08	5844	High	1	11.00	10.77	Back	0	V2	1.070	0.261	1.054	1.006	1.135	0.277	
Body	NB U-NII 3	FHSS	2a	3Q4T0	77.0	-0.05	5733	Low	1	11.00	10.49	Back	0	V2	0.912	0.225	1.125	1.006	1.033	0.255	
Body	NB U-NII 3	FHSS	2a	3Q4T0	77.0	0.02	5789	Mid	1	11.00	10.82	Back	0	V2	1.120	0.250	1.042	1.006	1.175	0.262	A35
Body	NB U-NII 3	FHSS	2a	76KCF	77.0	0.08	5789	Mid	1	11.00	10.49	Back	0	V1	0.897	0.208	1.125	1.006	1.016	0.236	
Body	NB U-NII 3	FHSS	2a	3Q4T0	77.0	-0.08	5789	Mid	1	11.00	10.82	Back	0	V2	1.075	0.247	1.042	1.006	1.122	0.259	
Body	NB U-NII 3	FHSS	2a	3Q4T0	77.0	0.07	5789	Mid	1	11.00	10.82	Top	0	V2	0.003	0.000	1.042	1.006	0.003	0.000	
Body	NB U-NII 3	FHSS	2a	3Q4T0	77.0	0.06	5789	Mid	1	11.00	10.82	Bottom	0	V2	0.165	0.054	1.042	1.006	0.173	0.057	
Body	NB U-NII 3	FHSS	2a	3Q4T0	77.0	-0.16	5789	Mid	1	11.00	10.82	Right	0	V2	0.315	0.060	1.042	1.006	0.330	0.063	
Body	NB U-NII 3	FHSS	2a	3Q4T0	77.0	0.08	5789	Mid	1	11.00	10.82	Left	0	V2	0.000	0.000	1.042	1.006	0.000	0.000	
Body	NB U-NII 3	FHSS	2a	3Q4T0	77.0	-0.13	5733	Low	1	8.00	7.10	Back	0	V2	0.283	0.048	1.230	1.006	0.350	0.059	
Body	NB U-NII 3	FHSS	2a	3Q4T0	77.0	0.08	5733	Low	1	8.00	7.10	Bottom	0	V2	0.039	0.003	1.230	1.006	0.048	0.004	
Body	NB U-NII 3	FHSS	2a	3Q4T0	77.0	-0.13	5733	Low	1	8.00	7.10	Right	0	V2	0.069	0.006	1.230	1.006	0.085	0.007	
Body	NB U-NII 3	FHSS	2a	3Q4T0	77.0	0.02	5733	Low	1	5.00	4.14	Back	0	V2	0.236	0.044	1.219	1.006	0.290	0.054	
Body	NB U-NII 3	FHSS	2a	3Q4T0	77.0	0.02	5733	Low	1	5.00	4.14	Bottom	0	V2	0.030	0.003	1.219	1.006	0.037	0.004	
Body	NB U-NII 3	FHSS	2a	3Q4T0	77.0	0.04	5733	Low	1	5.00	4.14	Right	0	V2	0.068	0.005	1.219	1.006	0.083	0.006	
Body	NB U-NII 3	FHSS	2a	3Q4T0	77.0	-0.03	5733	Low	1	4.00	3.40	Back	0	V2	0.215	0.042	1.148	1.006	0.248	0.049	
Body	NB U-NII 3	FHSS	2a	3Q4T0	77.0	0.08	5733	Low	1	4.00	3.40	Bottom	0	V2	0.024	0.000	1.148	1.006	0.028	0.000	
Body	NB U-NII 3	FHSS	2a	3Q4T0	77.0	-0.14	5733	Low	1	4.00	3.40	Right	0	V2	0.052	0.003	1.148	1.006	0.060	0.003	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population															Body 1.6 W/kg (mW/g) averaged over 1 gram						

Note: Blue entry represents variability measurement

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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10.10 wPT Standalone SAR

Table 10-120

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	302LK	0.02	13.60	Back	0	0.032	0.007	A36
Body	wPT	CW	302LK	-0.01	13.60	Top	0	0.000	0.000	
Body	wPT	CW	302LK	0.09	13.60	Bottom	0	0.000	0.000	
Body	wPT	CW	302LK	-0.19	13.60	Right	0	0.003	0.000	
Body	wPT	CW	302LK	0.08	13.60	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				

10.11 SAR Test Notes

General Notes:

- The test data reported are the worst-case SAR values according to test procedures specified in FCC KDB Publication 616217 D04v01r02, and FCC KDB Publication 447498 D04v01.
- Batteries are fully charged at the beginning of the SAR measurements.
- Liquid tissue depth was at least 15.0 cm for all frequencies.
- 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.
- SAR results were scaled to the maximum allowed power to demonstrate compliance per FCC KDB Publication 447498 D04v01.
- 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 12 for variability analysis.
- 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.
- This device uses Smart Transmit for WWAN operations to control and manage transmitting power in real time to ensure RF Exposure compliance. Per FCC Guidance, compliance for was assessed at the minimum of the time averaged power and the maximum output power for each band/mode/exposure condition (DSI).
- The orange highlights throughout the report represent the highest scaled SAR per Equipment Class.
- 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.

UMTS Notes:

- UMTS mode was tested under RMC 12.2 kbps with HSPA Inactive per KDB Publication 941225 D01v03r01. AMR and HSPA SAR were not required per the 3G Test Reduction Procedure in KDB Publication 941225 D01v03r01.
- Per FCC KDB Publication 447498 D04v01, if the reported (scaled) SAR measured at the highest output power channel for each test configuration is ≤ 0.8 W/kg for 1g evaluations then testing at the other channels is not required for such test configuration(s)

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LTE Notes:

1. LTE test configurations are determined according to SAR Evaluation Considerations for LTE Devices in FCC KDB Publication 941225 D05v02r04. The general test procedures used for testing can be found in Section 7.5.4.
2. MPR is permanently implemented for this device by the manufacturer. The specific manufacturer target MPR is indicated alongside the SAR results. MPR is enabled for this device, according to 3GPP TS36.101 Section 6.2.3 – 6.2.5 under Table 6.2.3-1.
3. A-MPR was disabled for all SAR tests by setting NS=01 and MCC=001 on the base station simulator. SAR tests were performed with the same number of RB and RB offsets transmitting on all TTI frames (maximum TTI).
4. Per FCC KDB Publication 447498 D04v01, when the reported LTE Band 41 and LTE Band 48 SAR measured at the highest output power channel in a given a test configuration was > 0.6 W/kg for 1g evaluations, testing at the other channels was required for such test configurations.
5. TDD LTE was tested per the guidance provided in FCC KDB Publication 941225 D05v02r04. Testing was performed using UL-DL configuration 0 with 6 UL subframes and 2 S subframes using extended cyclic prefix only and special subframe configuration 6. SAR tests were performed at maximum output power and worst-case transmission duty factor in extended cyclic prefix. Per 3GPP 36.211 Section 4, the duty factor for special subframe configuration 6 using extended cyclic prefix is 0.633.
6. Per KDB Publication 941225 D05Av01r02, SAR for downlink only LTE CA operations was not needed since the maximum average output power in LTE CA mode was not >0.25 dB higher than the maximum output power when downlink carrier aggregation was inactive.
7. This device supports Power Class 2 and Power Class 3 operations for LTE Band 41. The highest available duty cycle for Power Class 2 operations is 43.3 % using UL-DL configuration 1. Per FCC Guidance, all SAR tests were performed using Power Class 3. SAR with power class 2 at the available duty factor was additionally performed for the power class 3 configuration with the highest SAR configuration for each exposure condition. Please see Section 13 for linearity results.
8. For LTE Band 5, LTE Band 7, LTE Band 41, and LTE Band 48, per FCC guidance, SAR was first measured with only a single carrier active in the uplink (carrier aggregation not active). For each exposure condition, the uplink CA scenario with two component carriers was additionally tested for the configuration with the highest SAR when carrier aggregation was not active. The SCC was configured with the closest available contiguous channel. The two component carriers were configured so the resource blocks are physically allocated side by side to achieve the maximum output power.
9. This device supports LTE Band 41 ULCA active with Power Class 2. Highest SAR test configuration for each exposure condition in Power Class 3 with ULCA active was repeated with Power Class 2 with ULCA active.
10. This device supports downlink 4x4 MIMO operations for some LTE Bands. Per May 2017 TCB Workshop Notes, SAR for 4x4 DL MIMO was not needed since the maximum average output power in 4x4 DL MIMO mode was not more than 0.25 dB higher than the maximum output power with 4x4 DL MIMO inactive. Additionally, SAR for 4x4 MIMO Downlink Carrier Aggregation was not needed since the maximum output power in 4x4 MIMO Downlink Carrier Aggregation mode was not more than 0.25 dB higher than the maximum output power with 4x4 MIMO Downlink and downlink carrier aggregation inactive.

NR Notes:

1. NR implementation supports SA and NSA modes. NR implementation in EN-DC mode operates with the LTE Bands shown in the NR FR1 checklist acting as anchor bands. Per FCC guidance, SAR tests for NR Bands and LTE Anchors Bands were performed separately due to limitations in SAR probe calibration factors.
2. Per FCC KDB Publication 447498 D04v01, when the reported SAR measured at the highest output power channel in a given a test configuration was > 0.4 W/kg for NR n77 C 1g evaluations, > 0.6 W/kg for NR n41 1g evaluations, and > 0.8 W/kg for NR n77 DoD, testing at the other channels was required for such test configurations.

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3. Due to test setup limitations, SAR testing for NR was performed using test mode software to establish the connection.
4. Simultaneous transmission analysis for EN-DC operations is addressed in the Part 2 Test Report (Serial Number can be found in the bibliography).
5. This device additionally supports some EN-DC conditions where additional LTE carriers are added on the downlink only.
6. Per FCC Guidance, NR modulations and RB Sizes/Offsets were selected for testing such that configurations with the highest output power were evaluated for SAR tests.
7. This device supports Power Class 2 and Power Class 3 operations for NR Band n41, NR Band n77 DoD, and NR Band n77 C. The highest available duty cycle for Power Class 2 and Power Class 3 operations is 100.0 %. Per FCC Guidance, all SAR tests were performed using Power Class 2.

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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 7.6.4 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 7.6.5 for more information.
3. Per KDB Publication 248227 D01v02r02, SAR for MIMO was evaluated by following the simultaneous SAR provisions from KDB Publication 447498 D04v01 by either evaluating the sum of the 1g SAR values of each antenna transmitting independently or making a SAR measurement with both antennas transmitting simultaneously. Please see Section 11 for complete analysis.
4. When the maximum reported 1g averaged SAR is ≤ 0.8 W/kg, SAR testing on additional channels was not required. Otherwise, SAR for the next highest output power channel was required until the reported SAR result was ≤ 1.20 W/kg for 1g evaluations or all test channels were measured.
5. The device was configured to transmit continuously at the required data rate, channel bandwidth and signal modulation, using the highest transmission duty factor supported by the test mode tools. The reported SAR was scaled to the 100% transmission duty factor to determine compliance. Procedures used to measure the duty factor are identical to that in the associated EMC test reports.
6. The time-averaged mechanism for WLAN operations was disabled for the above SAR measurements. The SAR was scaled to the maximum time-averaged output power.

Bluetooth/NB-UNII Notes:

1. Bluetooth/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 8.14 and 8.16 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 8.14 and 8.16 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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10.12 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	15.25	14.71	0.02	2	WFSB	V2	C69ANHDJQY	68.1	Right	97.9	0.25	-	1.554	1.021	2.250	4.041	3.840	6.897	A38
6345	79	802.11ax	OFDM	160	15.50	14.19	0.04	2	WFSB	V2	C69ANHDJQY	68.1	Right	97.9	0.25	-	1.554	1.021	1.580	3.389	2.290	4.912	
6345	79	802.11ax	OFDM	160	15.50	14.19	-0.04	2	WFSB	V2	C69ANHDJQY	68.1	Back	97.9	0.25	-	1.554	1.021	0.774	1.660	0.821	1.761	
6345	79	802.11ax	OFDM	160	15.50	14.19	-0.16	2	WFSB	V2	C69ANHDJQY	68.1	Top	97.9	0.25	-	1.554	1.021	0.306	0.656	0.319	0.684	
6345	79	802.11ax	OFDM	160	15.50	14.19	-0.09	2	WFSB	V2	C69ANHDJQY	68.1	Bottom	97.9	0.25	-	1.554	1.021	0.467	1.002	0.514	1.103	
6345	79	802.11ax	OFDM	160	15.50	14.19	0.00	2	WFSB	V2	C69ANHDJQY	68.1	Left	97.9	0.25	-	1.554	1.021	0.147	0.315	0.162	0.348	
6505	111	802.11ax	OFDM	160	14.25	12.60	0.16	2	WFSB	V2	C69ANHDJQY	68.1	Right	97.9	0.25	2.800	1.554	1.021	1.850	4.291	3.010	6.982	
6985	143	802.11ax	OFDM	160	13.75	12.94	0.11	2	WFSB	V2	C69ANHDJQY	68.1	Right	97.9	0.25	-	1.554	1.021	1.810	3.461	3.290	6.290	
6985	207	802.11ax	OFDM	160	13.50	12.32	0.08	2	WFSB	V2	C69ANHDJQY	68.1	Right	97.9	0.25	-	1.554	1.021	1.740	3.622	2.720	5.662	
6505	111	802.11ax	OFDM	160	14.25	12.60	0.04	9.22	WFSB	V2	C69ANHDJQY	68.1	Right	97.9	0.25	2.600	1.554	1.021	1.670	3.874	1.840	4.268	
6025	15	802.11ax	OFDM	160	10.00	9.73	0.01	2	2a	V2	D3JC92WJQJ	68.1	Back	97.9	0.25	-	1.554	1.021	0.518	0.874	0.925	1.562	
6025	15	802.11ax	OFDM	160	10.00	9.73	0.16	2	2a	V2	D3JC92WJQJ	68.1	Top	97.9	0.25	-	1.554	1.021	0.314	0.530	0.324	0.547	
6025	15	802.11ax	OFDM	160	10.00	9.73	0.03	2	2a	V2	D3JC92WJQJ	68.1	Bottom	97.9	0.25	-	1.554	1.021	0.628	1.060	0.740	1.249	
6025	15	802.11ax	OFDM	160	10.00	9.73	-0.07	2	2a	V2	D3JC92WJQJ	68.1	Left	97.9	0.25	-	1.554	1.021	0.174	0.294	0.181	0.306	
6025	15	802.11ax	OFDM	160	10.00	9.73	0.02	2	2a	V2	D3JC92WJQJ	68.1	Right	97.9	0.25	-	1.554	1.021	0.295	0.498	0.304	0.513	
6345	79	802.11ax	OFDM	160	8.25	6.72	0.09	2	2a	V2	D3JC92WJQJ	68.1	Back	97.9	0.25	-	1.554	1.021	0.626	1.412	0.773	1.744	
6505	111	802.11ax	OFDM	160	7.75	6.07	0.02	2	2a	V2	D3JC92WJQJ	68.1	Back	97.9	0.25	2.100	1.554	1.021	1.000	2.336	1.250	2.919	
6665	143	802.11ax	OFDM	160	9.75	7.82	0.15	2	2a	V2	D3JC92WJQJ	68.1	Back	97.9	0.25	-	1.554	1.021	0.423	1.047	0.905	1.250	
6985	207	802.11ax	OFDM	160	8.25	6.37	-0.18	2	2a	V2	D3JC92WJQJ	68.1	Back	97.9	0.25	-	1.554	1.021	0.593	1.451	0.724	1.771	
6505	111	802.11ax	OFDM	160	7.75	6.07	-0.12	9.22	2a	V2	D3JC92WJQJ	68.1	Back	97.9	0.25	1.040	1.554	1.021	0.330	0.771	0.359	0.838	
6025	15	802.11ax	OFDM	160	7.50	6.05	0.12	2	4a	V2	YHFPQKX03	68.1	Back	97.9	0.25	-	1.554	1.021	0.349	0.773	0.499	1.105	
6345	79	802.11ax	OFDM	160	9.00	7.32	-0.20	2	4a	V2	YHFPQKX03	68.1	Back	97.9	0.25	-	1.554	1.021	0.806	1.882	0.921	2.151	
6345	79	802.11ax	OFDM	160	9.00	7.32	-0.17	2	4a	V2	YHFPQKX03	68.1	Top	97.9	0.25	-	1.554	1.021	0.518	1.210	0.614	1.434	
6345	79	802.11ax	OFDM	160	9.00	7.32	-0.02	2	4a	V2	YHFPQKX03	68.1	Bottom	97.9	0.25	-	1.554	1.021	0.310	0.724	0.321	0.750	
6345	79	802.11ax	OFDM	160	9.00	7.32	-0.02	2	4a	V2	YHFPQKX03	68.1	Left	97.9	0.25	-	1.554	1.021	0.120	0.280	0.223	0.521	
6345	79	802.11ax	OFDM	160	9.00	7.32	0.21	2	4a	V2	YHFPQKX03	68.1	Right	97.9	0.25	-	1.554	1.021	0.132	0.308	0.151	0.353	
6505	111	802.11ax	OFDM	160	8.50	6.76	0.02	2	4a	V2	YHFPQKX03	68.1	Back	97.9	0.25	-	1.554	1.021	0.414	0.981	0.540	1.279	
6665	143	802.11ax	OFDM	160	8.25	6.79	-0.01	2	4a	V2	YHFPQKX03	68.1	Back	97.9	0.25	1.030	1.554	1.021	0.900	1.999	1.040	2.310	
6985	207	802.11ax	OFDM	160	8.00	7.99	0.05	2	4a	V2	YHFPQKX03	68.1	Back	97.9	0.25	-	1.554	1.021	0.873	1.388	0.944	1.901	
6665	143	802.11ax	OFDM	160	8.25	6.79	-0.21	9	4a	V2	YHFPQKX03	68.1	Back	97.9	0.25	0.858	1.554	1.021	0.286	0.635	0.343	0.762	
47 CFR §1.1310 - SAFETY LIMIT Spatial Average Uncontrolled Exposure / General Population											Power Density 10 W/m² averaged over 4 cm²												

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10.13 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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11 FCC MULTI-TX AND ANTENNA SAR CONSIDERATIONS

11.1 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.

11.2 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.

For each position, the highest SAR value across all modes for the applicable cellular band antenna was considered for summation to determine simultaneous SAR test exclusion.

*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 was treated independently for this configuration. See section 11.4 for more information about the Spatial Separation Analysis.

Qualcomm Smart Transmit algorithm in WWAN adds directly the time-averaged RF exposure from 4G (including scenarios with inter-band ULCA active) and time-averaged RF exposure from 5G NR. Smart Transmit algorithm controls the total RF exposure from both 4G and 5G NR and during inter-band ULCA active conditions to not exceed FCC limit. Therefore, simultaneous transmission compliance between 4G+5G operations (including scenarios with inter-band ULCA active) is demonstrated in the Part 2 Report during algorithm validation.

All 3G/4G/5G transmitting antennas are within one Smart Transmit Gen2 antenna group, therefore no additional simultaneous analysis is required.

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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11.3 Body SAR Simultaneous Transmission Analysis

Table 11-1

Cellular Band Ant 1 Simultaneous Transmission Scenario with 2.4 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 1 SAR (W/kg)	2.4 GHz WIFI Ant 2a SAR (W/kg)	2.4 GHz WIFI Ant 4a SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.994	1.180	1.178	0.032	1.212*
	Top	0.050	0.022	0.385	0.000	0.457
	Bottom	0.994	0.450	0.020	0.000	1.464
	Right	0.085	1.029	0.000	0.003	1.117
	Left	0.938	0.002	1.015	0.000	1.017*

Table 11-2

Cellular Band Ant 2b Simultaneous Transmission Scenario with 2.4 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 2b SAR (W/kg)	2.4 GHz WIFI Ant 2a with 5.5 dB backoff SAR (W/kg)	2.4 GHz WIFI Ant 4a SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.993	0.287	1.178	0.032	1.312*
	Top	0.006	0.022	0.385	0.000	0.413
	Bottom	0.994	0.111	0.020	0.000	1.125
	Right	0.082	0.253	0.000	0.003	0.338
	Left	0.061	0.002	1.015	0.000	1.078

Table 11-3

Cellular Band Ant 3 Simultaneous Transmission Scenario with 2.4 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 3 SAR (W/kg)	2.4 GHz WIFI Ant 2a SAR (W/kg)	2.4 GHz WIFI Ant 4a with 5.5 dB backoff SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.993	1.180	0.240	0.032	1.452*
	Top	0.993	0.022	0.082	0.000	1.097
	Bottom	0.127	0.450	0.020	0.000	0.597
	Right	0.994	1.029	0.000	0.003	1.032*
	Left	0.084	0.002	0.219	0.000	0.305

Table 11-4

Cellular Band Ant 4b Simultaneous Transmission Scenario with 2.4 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 4b SAR (W/kg)	2.4 GHz WIFI Ant 2a SAR (W/kg)	2.4 GHz WIFI Ant 4a with 5.5 dB backoff SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.744	1.180	0.240	0.032	1.212*
	Top	0.994	0.022	0.082	0.000	1.098
	Bottom	0.001	0.450	0.020	0.000	0.471
	Right	0.022	1.029	0.000	0.003	1.054
	Left	0.063	0.002	0.219	0.000	0.284

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Table 11-5

Cellular Band Ant 1 Simultaneous Transmission Scenario with 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 1 SAR (W/kg)	5 GHz WIFI Ant 4a SAR (W/kg)	5 GHz WIFI Ant WF5B SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.994	1.184	0.264	0.032	1.48*
	Top	0.050	0.204	0.000	0.000	0.254
	Bottom	0.994	0.001	0.030	0.000	1.025
	Right	0.085	0.000	1.162	0.003	1.250
	Left	0.938	0.352	0.020	0.000	1.310

Table 11-6

Cellular Band Ant 2b Simultaneous Transmission Scenario with 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 2b SAR (W/kg)	5 GHz WIFI Ant 4a SAR (W/kg)	5 GHz WIFI Ant WF5B SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.993	1.184	0.264	0.032	1.48*
	Top	0.006	0.204	0.000	0.000	0.210
	Bottom	0.994	0.001	0.030	0.000	1.025
	Right	0.082	0.000	1.162	0.003	1.247
	Left	0.061	0.352	0.020	0.000	0.433

Table 11-7

Cellular Band Ant 3 Simultaneous Transmission Scenario with 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 3 SAR (W/kg)	5 GHz WIFI Ant 4a with 5.5 dB backoff SAR (W/kg)	5 GHz WIFI Ant WF5B SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.993	0.319	0.264	0.032	1.344*
	Top	0.993	0.040	0.000	0.000	1.033
	Bottom	0.127	0.001	0.030	0.000	0.158
	Right	0.994	0.000	1.162	0.003	1.165*
	Left	0.084	0.077	0.020	0.000	0.181

Table 11-8

Cellular Band Ant 4b Simultaneous Transmission Scenario with 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 4b SAR (W/kg)	5 GHz WIFI Ant 4a with 5.5 dB backoff SAR (W/kg)	5 GHz WIFI Ant WF5B SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.744	0.319	0.264	0.032	1.359
	Top	0.994	0.040	0.000	0.000	1.034
	Bottom	0.001	0.001	0.030	0.000	0.032
	Right	0.022	0.000	1.162	0.003	1.187
	Left	0.063	0.077	0.020	0.000	0.160

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Table 11-9

Cellular Band Ant 1 Simultaneous Transmission Scenario with 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 1 SAR (W/kg)	5 GHz WIFI Ant 4a SAR (W/kg)	5 GHz WIFI Ant 2a SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.994	1.184	1.184	0.032	1.216*
	Top	0.050	0.204	0.000	0.000	0.254
	Bottom	0.994	0.001	0.171	0.000	1.166
	Right	0.085	0.000	0.391	0.003	0.479
	Left	0.938	0.352	0.000	0.000	1.290

Table 11-10

Cellular Band Ant 2b Simultaneous Transmission Scenario with 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 2b SAR (W/kg)	5 GHz WIFI Ant 4a SAR (W/kg)	5 GHz WIFI Ant 2a with 5.5 dB backoff SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.993	1.184	0.328	0.032	1.353*
	Top	0.006	0.204	0.000	0.000	0.210
	Bottom	0.994	0.001	0.047	0.000	1.042
	Right	0.082	0.000	0.098	0.003	0.183
	Left	0.061	0.352	0.000	0.000	0.413

Table 11-11

Cellular Band Ant 3 Simultaneous Transmission Scenario with 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 3 SAR (W/kg)	5 GHz WIFI Ant 4a with 5.5 dB backoff SAR (W/kg)	5 GHz WIFI Ant 2a SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.993	0.319	1.184	0.032	1.535*
	Top	0.993	0.040	0.000	0.000	1.033
	Bottom	0.127	0.001	0.171	0.000	0.299
	Right	0.994	0.000	0.391	0.003	1.388
	Left	0.084	0.077	0.000	0.000	0.161

Table 11-12

Cellular Band Ant 4b Simultaneous Transmission Scenario with 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 4b SAR (W/kg)	5 GHz WIFI Ant 4a with 5.5 dB backoff SAR (W/kg)	5 GHz WIFI Ant 2a SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.744	0.319	1.184	0.032	1.216*
	Top	0.994	0.040	0.000	0.000	1.034
	Bottom	0.001	0.001	0.171	0.000	0.173
	Right	0.022	0.000	0.391	0.003	0.416
	Left	0.063	0.077	0.000	0.000	0.140

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Table 11-13

Cellular Band Ant 1 Simultaneous Transmission Scenario with 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 1 SAR (W/kg)	6 GHz WIFI Ant 4a SAR (W/kg)	6 GHz WIFI Ant WF5B SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.994	1.184	0.159	0.032	1.375*
	Top	0.050	0.191	0.004	0.000	0.245
	Bottom	0.994	0.003	0.121	0.000	1.118
	Right	0.085	0.000	1.174	0.003	1.262
	Left	0.938	0.189	0.036	0.000	1.163

Table 11-14

Cellular Band Ant 2b Simultaneous Transmission Scenario with 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 2b SAR (W/kg)	6 GHz WIFI Ant 4a SAR (W/kg)	6 GHz WIFI Ant WF5B SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.993	1.184	0.159	0.032	1.375*
	Top	0.006	0.191	0.004	0.000	0.201
	Bottom	0.994	0.003	0.121	0.000	1.118
	Right	0.082	0.000	1.174	0.003	1.259
	Left	0.061	0.189	0.036	0.000	0.286

Table 11-15

Cellular Band Ant 3 Simultaneous Transmission Scenario with 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 3 SAR (W/kg)	6 GHz WIFI Ant 4a with 5.5 dB backoff SAR (W/kg)	6 GHz WIFI Ant WF5B SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.993	0.134	0.159	0.032	1.318
	Top	0.993	0.027	0.004	0.000	1.024
	Bottom	0.127	0.003	0.121	0.000	0.251
	Right	0.994	0.000	1.174	0.003	1.177*
	Left	0.084	0.012	0.036	0.000	0.132

Table 11-16

Cellular Band Ant 4b Simultaneous Transmission Scenario with 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 4b SAR (W/kg)	6 GHz WIFI Ant 4a with 5.5 dB backoff SAR (W/kg)	6 GHz WIFI Ant WF5B SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.744	0.134	0.159	0.032	1.069
	Top	0.994	0.027	0.004	0.000	1.025
	Bottom	0.001	0.003	0.121	0.000	0.125
	Right	0.022	0.000	1.174	0.003	1.199
	Left	0.063	0.012	0.036	0.000	0.111

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Table 11-17

Cellular Band Ant 1 Simultaneous Transmission Scenario with 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 1 SAR (W/kg)	6 GHz WIFI Ant 4a SAR (W/kg)	6 GHz WIFI Ant 2a SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.994	1.184	1.184	0.032	1.216*
	Top	0.050	0.191	0.000	0.000	0.241
	Bottom	0.994	0.003	0.162	0.000	1.159
	Right	0.085	0.000	0.133	0.003	0.221
	Left	0.938	0.189	0.000	0.000	1.127

Table 11-18

Cellular Band Ant 2b Simultaneous Transmission Scenario with 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 2b SAR (W/kg)	6 GHz WIFI Ant 4a SAR (W/kg)	6 GHz WIFI Ant 2a with 5.5 dB backoff SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.993	1.184	0.226	0.032	1.251*
	Top	0.006	0.191	0.000	0.000	0.197
	Bottom	0.994	0.003	0.036	0.000	1.033
	Right	0.082	0.000	0.020	0.003	0.105
	Left	0.061	0.189	0.000	0.000	0.250

Table 11-19

Cellular Band Ant 3 Simultaneous Transmission Scenario with 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 3 SAR (W/kg)	6 GHz WIFI Ant 4a with 5.5 dB backoff SAR (W/kg)	6 GHz WIFI Ant 2a SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.993	0.134	1.184	0.032	1.35*
	Top	0.993	0.027	0.000	0.000	1.020
	Bottom	0.127	0.003	0.162	0.000	0.292
	Right	0.994	0.000	0.133	0.003	1.130
	Left	0.084	0.012	0.000	0.000	0.096

Table 11-20

Cellular Band Ant 4b Simultaneous Transmission Scenario with 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 4b SAR (W/kg)	6 GHz WIFI Ant 4a with 5.5 dB backoff SAR (W/kg)	6 GHz WIFI Ant 2a SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.744	0.134	1.184	0.032	1.216*
	Top	0.994	0.027	0.000	0.000	1.021
	Bottom	0.001	0.003	0.162	0.000	0.166
	Right	0.022	0.000	0.133	0.003	0.158
	Left	0.063	0.012	0.000	0.000	0.075

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Table 11-21

Cellular Band Ant 1 Simultaneous Transmission Scenario with 2.4 GHz Bluetooth TxBF and wPT

Simult Tx	Configuration	Cellular Band Ant 1 SAR (W/kg)	2.4 GHz Bluetooth Ant 2a SAR (W/kg)	2.4 GHz Bluetooth Ant 4a SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.994	1.163	1.131	0.032	1.195*
	Top	0.050	0.029	0.352	0.000	0.431
	Bottom	0.994	0.444	0.020	0.000	1.458
	Right	0.085	1.028	0.000	0.003	1.116
	Left	0.938	0.000	0.967	0.000	0.967*

Table 11-22

Cellular Band Ant 2b Simultaneous Transmission Scenario with 2.4 GHz Bluetooth TxBF and wPT

Simult Tx	Configuration	Cellular Band Ant 2b SAR (W/kg)	2.4 GHz Bluetooth Ant 2a with 3 dB backoff SAR (W/kg)	2.4 GHz Bluetooth Ant 4a SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.993	0.533	1.131	0.032	1.558*
	Top	0.006	0.029	0.352	0.000	0.387
	Bottom	0.994	0.160	0.020	0.000	1.174
	Right	0.082	0.446	0.000	0.003	0.531
	Left	0.061	0.000	0.967	0.000	1.028

Table 11-23

Cellular Band Ant 3 Simultaneous Transmission Scenario with 2.4 GHz Bluetooth TxBF and wPT

Simult Tx	Configuration	Cellular Band Ant 3 SAR (W/kg)	2.4 GHz Bluetooth Ant 2a SAR (W/kg)	2.4 GHz Bluetooth Ant 4a with 3 dB backoff SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.993	1.163	0.594	0.032	1.195*
	Top	0.993	0.029	0.207	0.000	1.229
	Bottom	0.127	0.444	0.020	0.000	0.591
	Right	0.994	1.028	0.000	0.003	1.031*
	Left	0.084	0.000	0.521	0.000	0.605

Table 11-24

Cellular Band Ant 4b Simultaneous Transmission Scenario with 2.4 GHz Bluetooth TxBF and wPT

Simult Tx	Configuration	Cellular Band Ant 4b SAR (W/kg)	2.4 GHz Bluetooth Ant 2a SAR (W/kg)	2.4 GHz Bluetooth Ant 4a with 3 dB backoff SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.744	1.163	0.594	0.032	1.37*
	Top	0.994	0.029	0.207	0.000	1.230
	Bottom	0.001	0.444	0.020	0.000	0.465
	Right	0.022	1.028	0.000	0.003	1.053
	Left	0.063	0.000	0.521	0.000	0.584

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Table 11-25

Cellular Band Ant 1 Simultaneous Transmission Scenario with 802.15.4 and wPT

Simult Tx	Configuration	Cellular Band Ant 1 SAR (W/kg)	802.15.4 Ant 2a SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Body SAR	Back	0.994	1.027	0.032	1.059*
	Top	0.050	0.031	0.000	0.081
	Bottom	0.994	0.249	0.000	1.243
	Right	0.085	0.549	0.003	0.637
	Left	0.938	0.000	0.000	0.938

Table 11-26

Cellular Band Ant 1 Simultaneous Transmission Scenario with 802.15.4 and wPT

Simult Tx	Configuration	Cellular Band Ant 1 SAR (W/kg)	802.15.4 Ant 4a SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Body SAR	Back	0.994	1.136	0.032	1.168*
	Top	0.050	0.355	0.000	0.405
	Bottom	0.994	0.023	0.000	1.017
	Right	0.085	0.000	0.003	0.088
	Left	0.938	1.001	0.000	1.001*

Table 11-27

Cellular Band Ant 2b Simultaneous Transmission Scenario with 802.15.4 and wPT

Simult Tx	Configuration	Cellular Band Ant 2b SAR (W/kg)	802.15.4 Ant 2a with 3 dB backoff SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Body SAR	Back	0.993	0.335	0.032	1.360
	Top	0.006	0.031	0.000	0.037
	Bottom	0.994	0.125	0.000	1.119
	Right	0.082	0.300	0.003	0.385
	Left	0.061	0.000	0.000	0.061

Table 11-28

Cellular Band Ant 2b Simultaneous Transmission Scenario with 802.15.4 and wPT

Simult Tx	Configuration	Cellular Band Ant 2b SAR (W/kg)	802.15.4 Ant 4a SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Body SAR	Back	0.993	1.136	0.032	1.168*
	Top	0.006	0.355	0.000	0.361
	Bottom	0.994	0.023	0.000	1.017
	Right	0.082	0.000	0.003	0.085
	Left	0.061	1.001	0.000	1.062

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Table 11-29

Cellular Band Ant 3 Simultaneous Transmission Scenario with 802.15.4 and wPT

Simult Tx	Configuration	Cellular Band Ant 3 SAR (W/kg)	802.15.4 Ant 2a SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Body SAR	Back	0.993	1.027	0.032	1.059*
	Top	0.993	0.031	0.000	1.024
	Bottom	0.127	0.249	0.000	0.376
	Right	0.994	0.549	0.003	1.546
	Left	0.084	0.000	0.000	0.084

Table 11-30

Cellular Band Ant 3 Simultaneous Transmission Scenario with 802.15.4 and wPT

Simult Tx	Configuration	Cellular Band Ant 3 SAR (W/kg)	802.15.4 Ant 4a with 3 dB backoff SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Body SAR	Back	0.993	0.492	0.032	1.517
	Top	0.993	0.177	0.000	1.170
	Bottom	0.127	0.023	0.000	0.150
	Right	0.994	0.000	0.003	0.997
	Left	0.084	0.452	0.000	0.536

Table 11-31

Cellular Band Ant 4b Simultaneous Transmission Scenario with 802.15.4 and wPT

Simult Tx	Configuration	Cellular Band Ant 4b SAR (W/kg)	802.15.4 Ant 2a SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Body SAR	Back	0.744	1.027	0.032	1.059*
	Top	0.994	0.031	0.000	1.025
	Bottom	0.001	0.249	0.000	0.250
	Right	0.022	0.549	0.003	0.574
	Left	0.063	0.000	0.000	0.063

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Table 11-32

Cellular Band Ant 4b Simultaneous Transmission Scenario with 802.15.4 and wPT

Simult Tx	Configuration	Cellular Band Ant 4b SAR (W/kg)	802.15.4 Ant 4a with 3 dB backoff SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Body SAR	Back	0.744	0.492	0.032	1.268
	Top	0.994	0.177	0.000	1.171
	Bottom	0.001	0.023	0.000	0.024
	Right	0.022	0.000	0.003	0.025
	Left	0.063	0.452	0.000	0.515

Table 11-33

Cellular Band Ant 1 Simultaneous Transmission Scenario with 802.15.4, 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 1 SAR (W/kg)	802.15.4 Ant 2a with 6 dB backoff SAR (W/kg)	5 GHz WIFI Ant 4a SAR (W/kg)	5 GHz WIFI Ant WF5B SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.994	0.201	1.184	0.264	0.032	1.491*
	Top	0.050	0.031	0.204	0.000	0.000	0.285
	Bottom	0.994	0.074	0.001	0.030	0.000	1.099
	Right	0.085	0.178	0.000	1.162	0.003	1.428
	Left	0.938	0.000	0.352	0.020	0.000	1.310

Table 11-34

Cellular Band Ant 1 Simultaneous Transmission Scenario with 802.15.4, 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 1 SAR (W/kg)	802.15.4 Ant 4a with 6 dB backoff SAR (W/kg)	5 GHz WIFI Ant 4a SAR (W/kg)	5 GHz WIFI Ant WF5B SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.994	0.250	1.184	0.264	0.032	1.466*
	Top	0.050	0.091	0.204	0.000	0.000	0.345
	Bottom	0.994	0.023	0.001	0.030	0.000	1.048
	Right	0.085	0.000	0.000	1.162	0.003	1.250
	Left	0.938	0.233	0.352	0.020	0.000	1.543

Table 11-35

Cellular Band Ant 2b Simultaneous Transmission Scenario with 802.15.4, 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 2b SAR (W/kg)	802.15.4 Ant 2a with 7 dB backoff SAR (W/kg)	5 GHz WIFI Ant 4a SAR (W/kg)	5 GHz WIFI Ant WF5B SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.993	0.111	1.184	0.264	0.032	1.48*
	Top	0.006	0.031	0.204	0.000	0.000	0.241
	Bottom	0.994	0.044	0.001	0.030	0.000	1.069
	Right	0.082	0.098	0.000	1.162	0.003	1.345
	Left	0.061	0.000	0.352	0.020	0.000	0.433

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Table 11-36

Cellular Band Ant 2b Simultaneous Transmission Scenario with 802.15.4, 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 2b SAR (W/kg)	802.15.4 Ant 4a with 6 dB backoff SAR (W/kg)	5 GHz WIFI Ant 4a SAR (W/kg)	5 GHz WIFI Ant WF5B SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.993	0.250	1.184	0.264	0.032	1.466*
	Top	0.006	0.091	0.204	0.000	0.000	0.301
	Bottom	0.994	0.023	0.001	0.030	0.000	1.048
	Right	0.082	0.000	0.000	1.162	0.003	1.247
	Left	0.061	0.233	0.352	0.020	0.000	0.666

Table 11-37

Cellular Band Ant 3 Simultaneous Transmission Scenario with 802.15.4, 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 3 SAR (W/kg)	802.15.4 Ant 2a with 6 dB backoff SAR (W/kg)	5 GHz WIFI Ant 4a with 5.5 dB backoff SAR (W/kg)	5 GHz WIFI Ant WF5B SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.993	0.201	0.319	0.264	0.032	1.545*
	Top	0.993	0.031	0.040	0.000	0.000	1.064
	Bottom	0.127	0.074	0.001	0.030	0.000	0.232
	Right	0.994	0.178	0.000	1.162	0.003	1.343*
	Left	0.084	0.000	0.077	0.020	0.000	0.181

Table 11-38

Cellular Band Ant 3 Simultaneous Transmission Scenario with 802.15.4, 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 3 SAR (W/kg)	802.15.4 Ant 4a with 7 dB backoff SAR (W/kg)	5 GHz WIFI Ant 4a with 5.5 dB backoff SAR (W/kg)	5 GHz WIFI Ant WF5B SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.993	0.170	0.319	0.264	0.032	1.514*
	Top	0.993	0.080	0.040	0.000	0.000	1.113
	Bottom	0.127	0.023	0.001	0.030	0.000	0.181
	Right	0.994	0.000	0.000	1.162	0.003	1.165*
	Left	0.084	0.149	0.077	0.020	0.000	0.330

Table 11-39

Cellular Band Ant 4b Simultaneous Transmission Scenario with 802.15.4, 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 4b SAR (W/kg)	802.15.4 Ant 2a with 6 dB backoff SAR (W/kg)	5 GHz WIFI Ant 4a with 5.5 dB backoff SAR (W/kg)	5 GHz WIFI Ant WF5B SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.744	0.201	0.319	0.264	0.032	1.560
	Top	0.994	0.031	0.040	0.000	0.000	1.065
	Bottom	0.001	0.074	0.001	0.030	0.000	0.106
	Right	0.022	0.178	0.000	1.162	0.003	1.365
	Left	0.063	0.000	0.077	0.020	0.000	0.160

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Table 11-40

Cellular Band Ant 4b Simultaneous Transmission Scenario with 802.15.4, 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 4b SAR (W/kg)	802.15.4 Ant 4a with 7 dB backoff SAR (W/kg)	5 GHz WIFI Ant 4a with 5.5 dB backoff SAR (W/kg)	5 GHz WIFI Ant WF5B SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.744	0.170	0.319	0.264	0.032	1.529
	Top	0.994	0.080	0.040	0.000	0.000	1.114
	Bottom	0.001	0.023	0.001	0.030	0.000	0.055
	Right	0.022	0.000	0.000	1.162	0.003	1.187
	Left	0.063	0.149	0.077	0.020	0.000	0.309

Table 11-41

Cellular Band Ant 1 Simultaneous Transmission Scenario with 802.15.4, 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 1 SAR (W/kg)	802.15.4 Ant 2a with 6 dB backoff SAR (W/kg)	5 GHz WIFI Ant 4a SAR (W/kg)	5 GHz WIFI Ant 2a SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.994	0.201	1.184	1.184	0.032	1.417*
	Top	0.050	0.031	0.204	0.000	0.000	0.285
	Bottom	0.994	0.074	0.001	0.171	0.000	1.240
	Right	0.085	0.178	0.000	0.391	0.003	0.657
	Left	0.938	0.000	0.352	0.000	0.000	1.290

Table 11-42

Cellular Band Ant 1 Simultaneous Transmission Scenario with 802.15.4, 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 1 SAR (W/kg)	802.15.4 Ant 4a with 6 dB backoff SAR (W/kg)	5 GHz WIFI Ant 4a SAR (W/kg)	5 GHz WIFI Ant 2a SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.994	0.250	1.184	1.184	0.032	1.466*
	Top	0.050	0.091	0.204	0.000	0.000	0.345
	Bottom	0.994	0.023	0.001	0.171	0.000	1.189
	Right	0.085	0.000	0.000	0.391	0.003	0.479
	Left	0.938	0.233	0.352	0.000	0.000	1.523

Table 11-43

Cellular Band Ant 2b Simultaneous Transmission Scenario with 802.15.4, 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 2b SAR (W/kg)	802.15.4 Ant 2a with 7 dB backoff SAR (W/kg)	5 GHz WIFI Ant 4a SAR (W/kg)	5 GHz WIFI Ant 2a with 5.5 dB backoff SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.993	0.111	1.184	0.328	0.032	1.464*
	Top	0.006	0.031	0.204	0.000	0.000	0.241
	Bottom	0.994	0.044	0.001	0.047	0.000	1.086
	Right	0.082	0.098	0.000	0.098	0.003	0.281
	Left	0.061	0.000	0.352	0.000	0.000	0.413

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Table 11-44

Cellular Band Ant 2b Simultaneous Transmission Scenario with 802.15.4, 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 2b SAR (W/kg)	802.15.4 Ant 4a with 6 dB backoff SAR (W/kg)	5 GHz WIFI Ant 4a SAR (W/kg)	5 GHz WIFI Ant 2a with 5.5 dB backoff SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.993	0.250	1.184	0.328	0.032	1.466*
	Top	0.006	0.091	0.204	0.000	0.000	0.301
	Bottom	0.994	0.023	0.001	0.047	0.000	1.065
	Right	0.082	0.000	0.000	0.098	0.003	0.183
	Left	0.061	0.233	0.352	0.000	0.000	0.646

Table 11-45

Cellular Band Ant 3 Simultaneous Transmission Scenario with 802.15.4, 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 3 SAR (W/kg)	802.15.4 Ant 2a with 6 dB backoff SAR (W/kg)	5 GHz WIFI Ant 4a with 5.5 dB backoff SAR (W/kg)	5 GHz WIFI Ant 2a SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.993	0.201	0.319	1.184	0.032	1.417*
	Top	0.993	0.031	0.040	0.000	0.000	1.064
	Bottom	0.127	0.074	0.001	0.171	0.000	0.373
	Right	0.994	0.178	0.000	0.391	0.003	1.566
	Left	0.084	0.000	0.077	0.000	0.000	0.161

Table 11-46

Cellular Band Ant 3 Simultaneous Transmission Scenario with 802.15.4, 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 3 SAR (W/kg)	802.15.4 Ant 4a with 7 dB backoff SAR (W/kg)	5 GHz WIFI Ant 4a with 5.5 dB backoff SAR (W/kg)	5 GHz WIFI Ant 2a SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.993	0.170	0.319	1.184	0.032	1.514*
	Top	0.993	0.080	0.040	0.000	0.000	1.113
	Bottom	0.127	0.023	0.001	0.171	0.000	0.322
	Right	0.994	0.000	0.000	0.391	0.003	1.388
	Left	0.084	0.149	0.077	0.000	0.000	0.310

Table 11-47

Cellular Band Ant 4b Simultaneous Transmission Scenario with 802.15.4, 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 4b SAR (W/kg)	802.15.4 Ant 2a with 6 dB backoff SAR (W/kg)	5 GHz WIFI Ant 4a with 5.5 dB backoff SAR (W/kg)	5 GHz WIFI Ant 2a SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.744	0.201	0.319	1.184	0.032	1.417*
	Top	0.994	0.031	0.040	0.000	0.000	1.065
	Bottom	0.001	0.074	0.001	0.171	0.000	0.247
	Right	0.022	0.178	0.000	0.391	0.003	0.594
	Left	0.063	0.000	0.077	0.000	0.000	0.140

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Table 11-48

Cellular Band Ant 4b Simultaneous Transmission Scenario with 802.15.4, 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 4b SAR (W/kg)	802.15.4 Ant 4a with 7 dB backoff SAR (W/kg)	5 GHz WIFI Ant 4a with 5.5 dB backoff SAR (W/kg)	5 GHz WIFI Ant 2a SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.744	0.170	0.319	1.184	0.032	1.265*
	Top	0.994	0.080	0.040	0.000	0.000	1.114
	Bottom	0.001	0.023	0.001	0.171	0.000	0.196
	Right	0.022	0.000	0.000	0.391	0.003	0.416
	Left	0.063	0.149	0.077	0.000	0.000	0.289

Table 11-49

Cellular Band Ant 1 Simultaneous Transmission Scenario with 802.15.4, 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 1 SAR (W/kg)	802.15.4 Ant 2a with 6 dB backoff SAR (W/kg)	6 GHz WIFI Ant 4a SAR (W/kg)	6 GHz WIFI Ant WF5B SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.994	0.201	1.184	0.159	0.032	1.576*
	Top	0.050	0.031	0.191	0.004	0.000	0.276
	Bottom	0.994	0.074	0.003	0.121	0.000	1.192
	Right	0.085	0.178	0.000	1.174	0.003	1.440
	Left	0.938	0.000	0.189	0.036	0.000	1.163

Table 11-50

Cellular Band Ant 1 Simultaneous Transmission Scenario with 802.15.4, 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 1 SAR (W/kg)	802.15.4 Ant 4a with 6 dB backoff SAR (W/kg)	6 GHz WIFI Ant 4a SAR (W/kg)	6 GHz WIFI Ant WF5B SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.994	0.250	1.184	0.159	0.032	1.466*
	Top	0.050	0.091	0.191	0.004	0.000	0.336
	Bottom	0.994	0.023	0.003	0.121	0.000	1.141
	Right	0.085	0.000	0.000	1.174	0.003	1.262
	Left	0.938	0.233	0.189	0.036	0.000	1.396

Table 11-51

Cellular Band Ant 2b Simultaneous Transmission Scenario with 802.15.4, 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 2b SAR (W/kg)	802.15.4 Ant 2a with 7 dB backoff SAR (W/kg)	6 GHz WIFI Ant 4a SAR (W/kg)	6 GHz WIFI Ant WF5B SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.993	0.111	1.184	0.159	0.032	1.375*
	Top	0.006	0.031	0.191	0.004	0.000	0.232
	Bottom	0.994	0.044	0.003	0.121	0.000	1.162
	Right	0.082	0.098	0.000	1.174	0.003	1.357
	Left	0.061	0.000	0.189	0.036	0.000	0.286

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Table 11-52

Cellular Band Ant 2b Simultaneous Transmission Scenario with 802.15.4, 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 2b SAR (W/kg)	802.15.4 Ant 4a with 6 dB backoff SAR (W/kg)	6 GHz WIFI Ant 4a SAR (W/kg)	6 GHz WIFI Ant WF5B SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.993	0.250	1.184	0.159	0.032	1.466*
	Top	0.006	0.091	0.191	0.004	0.000	0.292
	Bottom	0.994	0.023	0.003	0.121	0.000	1.141
	Right	0.082	0.000	0.000	1.174	0.003	1.259
	Left	0.061	0.233	0.189	0.036	0.000	0.519

Table 11-53

Cellular Band Ant 3 Simultaneous Transmission Scenario with 802.15.4, 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 3 SAR (W/kg)	802.15.4 Ant 2a with 6 dB backoff SAR (W/kg)	6 GHz WIFI Ant 4a with 5.5 dB backoff SAR (W/kg)	6 GHz WIFI Ant WF5B SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.993	0.201	0.134	0.159	0.032	1.519
	Top	0.993	0.031	0.027	0.004	0.000	1.055
	Bottom	0.127	0.074	0.003	0.121	0.000	0.325
	Right	0.994	0.178	0.000	1.174	0.003	1.355*
	Left	0.084	0.000	0.012	0.036	0.000	0.132

Table 11-54

Cellular Band Ant 3 Simultaneous Transmission Scenario with 802.15.4, 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 3 SAR (W/kg)	802.15.4 Ant 4a with 7 dB backoff SAR (W/kg)	6 GHz WIFI Ant 4a with 5.5 dB backoff SAR (W/kg)	6 GHz WIFI Ant WF5B SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.993	0.170	0.134	0.159	0.032	1.488
	Top	0.993	0.080	0.027	0.004	0.000	1.104
	Bottom	0.127	0.023	0.003	0.121	0.000	0.274
	Right	0.994	0.000	0.000	1.174	0.003	1.177*
	Left	0.084	0.149	0.012	0.036	0.000	0.281

Table 11-55

Cellular Band Ant 4b Simultaneous Transmission Scenario with 802.15.4, 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 4b SAR (W/kg)	802.15.4 Ant 2a with 6 dB backoff SAR (W/kg)	6 GHz WIFI Ant 4a with 5.5 dB backoff SAR (W/kg)	6 GHz WIFI Ant WF5B SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.744	0.201	0.134	0.159	0.032	1.270
	Top	0.994	0.031	0.027	0.004	0.000	1.056
	Bottom	0.001	0.074	0.003	0.121	0.000	0.199
	Right	0.022	0.178	0.000	1.174	0.003	1.377
	Left	0.063	0.000	0.012	0.036	0.000	0.111

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Table 11-56

Cellular Band Ant 4b Simultaneous Transmission Scenario with 802.15.4, 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 4b SAR (W/kg)	802.15.4 Ant 4a with 7 dB backoff SAR (W/kg)	6 GHz WIFI Ant 4a with 5.5 dB backoff SAR (W/kg)	6 GHz WIFI Ant WF5B SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.744	0.170	0.134	0.159	0.032	1.239
	Top	0.994	0.080	0.027	0.004	0.000	1.105
	Bottom	0.001	0.023	0.003	0.121	0.000	0.148
	Right	0.022	0.000	0.000	1.174	0.003	1.199
	Left	0.063	0.149	0.012	0.036	0.000	0.260

Table 11-57

Cellular Band Ant 1 Simultaneous Transmission Scenario with 802.15.4, 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 1 SAR (W/kg)	802.15.4 Ant 2a with 6 dB backoff SAR (W/kg)	6 GHz WIFI Ant 4a SAR (W/kg)	6 GHz WIFI Ant 2a SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.994	0.201	1.184	1.184	0.032	1.417*
	Top	0.050	0.031	0.191	0.000	0.000	0.272
	Bottom	0.994	0.074	0.003	0.162	0.000	1.233
	Right	0.085	0.178	0.000	0.133	0.003	0.399
	Left	0.938	0.000	0.189	0.000	0.000	1.127

Table 11-58

Cellular Band Ant 1 Simultaneous Transmission Scenario with 802.15.4, 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 1 SAR (W/kg)	802.15.4 Ant 4a with 6 dB backoff SAR (W/kg)	6 GHz WIFI Ant 4a SAR (W/kg)	6 GHz WIFI Ant 2a SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.994	0.250	1.184	1.184	0.032	1.466*
	Top	0.050	0.091	0.191	0.000	0.000	0.332
	Bottom	0.994	0.023	0.003	0.162	0.000	1.182
	Right	0.085	0.000	0.000	0.133	0.003	0.221
	Left	0.938	0.233	0.189	0.000	0.000	1.360

Table 11-59

Cellular Band Ant 2b Simultaneous Transmission Scenario with 802.15.4, 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 2b SAR (W/kg)	802.15.4 Ant 2a with 7 dB backoff SAR (W/kg)	6 GHz WIFI Ant 4a SAR (W/kg)	6 GHz WIFI Ant 2a with 5.5 dB backoff SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.993	0.111	1.184	0.226	0.032	1.362*
	Top	0.006	0.031	0.191	0.000	0.000	0.228
	Bottom	0.994	0.044	0.003	0.036	0.000	1.077
	Right	0.082	0.098	0.000	0.020	0.003	0.203
	Left	0.061	0.000	0.189	0.000	0.000	0.250

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Table 11-60

Cellular Band Ant 2b Simultaneous Transmission Scenario with 802.15.4, 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 2b SAR (W/kg)	802.15.4 Ant 4a with 6 dB backoff SAR (W/kg)	6 GHz WIFI Ant 4a SAR (W/kg)	6 GHz WIFI Ant 2a with 5.5 dB backoff SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.993	0.250	1.184	0.226	0.032	1.466*
	Top	0.006	0.091	0.191	0.000	0.000	0.288
	Bottom	0.994	0.023	0.003	0.036	0.000	1.056
	Right	0.082	0.000	0.000	0.020	0.003	0.105
	Left	0.061	0.233	0.189	0.000	0.000	0.483

Table 11-61

Cellular Band Ant 3 Simultaneous Transmission Scenario with 802.15.4, 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 3 SAR (W/kg)	802.15.4 Ant 2a with 6 dB backoff SAR (W/kg)	6 GHz WIFI Ant 4a with 5.5 dB backoff SAR (W/kg)	6 GHz WIFI Ant 2a SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.993	0.201	0.134	1.184	0.032	1.551*
	Top	0.993	0.031	0.027	0.000	0.000	1.051
	Bottom	0.127	0.074	0.003	0.162	0.000	0.366
	Right	0.994	0.178	0.000	0.133	0.003	1.308
	Left	0.084	0.000	0.012	0.000	0.000	0.096

Table 11-62

Cellular Band Ant 3 Simultaneous Transmission Scenario with 802.15.4, 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 3 SAR (W/kg)	802.15.4 Ant 4a with 7 dB backoff SAR (W/kg)	6 GHz WIFI Ant 4a with 5.5 dB backoff SAR (W/kg)	6 GHz WIFI Ant 2a SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.993	0.170	0.134	1.184	0.032	1.52*
	Top	0.993	0.080	0.027	0.000	0.000	1.100
	Bottom	0.127	0.023	0.003	0.162	0.000	0.315
	Right	0.994	0.000	0.000	0.133	0.003	1.130
	Left	0.084	0.149	0.012	0.000	0.000	0.245

Table 11-63

Cellular Band Ant 4b Simultaneous Transmission Scenario with 802.15.4, 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 4b SAR (W/kg)	802.15.4 Ant 2a with 6 dB backoff SAR (W/kg)	6 GHz WIFI Ant 4a with 5.5 dB backoff SAR (W/kg)	6 GHz WIFI Ant 2a SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.744	0.201	0.134	1.184	0.032	1.417*
	Top	0.994	0.031	0.027	0.000	0.000	1.052
	Bottom	0.001	0.074	0.003	0.162	0.000	0.240
	Right	0.022	0.178	0.000	0.133	0.003	0.336
	Left	0.063	0.000	0.012	0.000	0.000	0.075

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Table 11-64

Cellular Band Ant 4b Simultaneous Transmission Scenario with 802.15.4, 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 4b SAR (W/kg)	802.15.4 Ant 4a with 7 dB backoff SAR (W/kg)	6 GHz WIFI Ant 4a with 5.5 dB backoff SAR (W/kg)	6 GHz WIFI Ant 2a SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.744	0.170	0.134	1.184	0.032	1.216*
	Top	0.994	0.080	0.027	0.000	0.000	1.101
	Bottom	0.001	0.023	0.003	0.162	0.000	0.189
	Right	0.022	0.000	0.000	0.133	0.003	0.158
	Left	0.063	0.149	0.012	0.000	0.000	0.224

Table 11-65

Cellular Band Ant 1 Simultaneous Transmission Scenario with 2.4 GHz Bluetooth TxBF, 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 1 SAR (W/kg)	2.4 GHz Bluetooth Ant 2a with 6 dB backoff SAR (W/kg)	2.4 GHz Bluetooth Ant 4a with 6 dB backoff SAR (W/kg)	5 GHz WIFI Ant 4a SAR (W/kg)	5 GHz WIFI Ant WF5B SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	5	6	1+2+3+4+5+6
Body SAR	Back	0.994	0.271	0.311	1.184	0.264	0.032	1.561*
	Top	0.050	0.029	0.100	0.204	0.000	0.000	0.383
	Bottom	0.994	0.078	0.020	0.001	0.030	0.000	1.123
	Right	0.085	0.219	0.000	0.000	1.162	0.003	1.469
	Left	0.938	0.000	0.256	0.352	0.020	0.000	1.566

Table 11-66

Cellular Band Ant 2b Simultaneous Transmission Scenario with 2.4 GHz Bluetooth TxBF, 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 2b SAR (W/kg)	2.4 GHz Bluetooth Ant 2a with 7 dB backoff SAR (W/kg)	2.4 GHz Bluetooth Ant 4a with 6 dB backoff SAR (W/kg)	5 GHz WIFI Ant 4a SAR (W/kg)	5 GHz WIFI Ant WF5B SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	5	6	1+2+3+4+5+6
Body SAR	Back	0.993	0.215	0.311	1.184	0.264	0.032	1.527*
	Top	0.006	0.029	0.100	0.204	0.000	0.000	0.339
	Bottom	0.994	0.060	0.020	0.001	0.030	0.000	1.105
	Right	0.082	0.178	0.000	0.000	1.162	0.003	1.425
	Left	0.061	0.000	0.256	0.352	0.020	0.000	0.689

Table 11-67

Cellular Band Ant 3 Simultaneous Transmission Scenario with 2.4 GHz Bluetooth TxBF, 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 3 SAR (W/kg)	2.4 GHz Bluetooth Ant 2a with 6 dB backoff SAR (W/kg)	2.4 GHz Bluetooth Ant 4a with 7 dB backoff SAR (W/kg)	5 GHz WIFI Ant 4a with 5.5 dB backoff SAR (W/kg)	5 GHz WIFI Ant WF5B SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	5	6	1+2+3+4+5+6
Body SAR	Back	0.993	0.271	0.231	0.319	0.264	0.032	1.575*
	Top	0.993	0.029	0.071	0.040	0.000	0.000	1.133
	Bottom	0.127	0.078	0.020	0.001	0.030	0.000	0.256
	Right	0.994	0.219	0.000	0.000	1.162	0.003	1.384*
	Left	0.084	0.000	0.183	0.077	0.020	0.000	0.364

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Table 11-68

Cellular Band Ant 4b Simultaneous Transmission Scenario with 2.4 GHz Bluetooth TxBF, 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 4b SAR (W/kg)	2.4 GHz Bluetooth Ant 2a with 6 dB backoff SAR (W/kg)	2.4 GHz Bluetooth Ant 4a with 7 dB backoff SAR (W/kg)	5 GHz WIFI Ant 4a with 5.5 dB backoff SAR (W/kg)	5 GHz WIFI Ant WF5B SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	5	6	1+2+3+4+5+6
Body SAR	Back	0.744	0.271	0.231	0.319	0.264	0.032	1.59*
	Top	0.994	0.029	0.071	0.040	0.000	0.000	1.134
	Bottom	0.001	0.078	0.020	0.001	0.030	0.000	0.130
	Right	0.022	0.219	0.000	0.000	1.162	0.003	1.406
	Left	0.063	0.000	0.183	0.077	0.020	0.000	0.343

Table 11-69

Cellular Band Ant 1 Simultaneous Transmission Scenario with 2.4 GHz Bluetooth TxBF, 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 1 SAR (W/kg)	2.4 GHz Bluetooth Ant 2a with 6 dB backoff SAR (W/kg)	2.4 GHz Bluetooth Ant 4a with 6 dB backoff SAR (W/kg)	5 GHz WIFI Ant 4a SAR (W/kg)	5 GHz WIFI Ant 2a SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	5	6	1+2+3+4+5+6
Body SAR	Back	0.994	0.271	0.311	1.184	1.184	0.032	1.527*
	Top	0.050	0.029	0.100	0.204	0.000	0.000	0.383
	Bottom	0.994	0.078	0.020	0.001	0.171	0.000	1.264
	Right	0.085	0.219	0.000	0.000	0.391	0.003	0.698
	Left	0.938	0.000	0.256	0.352	0.000	0.000	1.546

Table 11-70

Cellular Band Ant 2b Simultaneous Transmission Scenario with 2.4 GHz Bluetooth TxBF, 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 2b SAR (W/kg)	2.4 GHz Bluetooth Ant 2a with 7 dB backoff SAR (W/kg)	2.4 GHz Bluetooth Ant 4a with 6 dB backoff SAR (W/kg)	5 GHz WIFI Ant 4a SAR (W/kg)	5 GHz WIFI Ant 2a with 5.5 dB backoff SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	5	6	1+2+3+4+5+6
Body SAR	Back	0.993	0.215	0.311	1.184	0.328	0.032	1.568*
	Top	0.006	0.029	0.100	0.204	0.000	0.000	0.339
	Bottom	0.994	0.060	0.020	0.001	0.047	0.000	1.122
	Right	0.082	0.178	0.000	0.000	0.098	0.003	0.361
	Left	0.061	0.000	0.256	0.352	0.000	0.000	0.669

Table 11-71

Cellular Band Ant 3 Simultaneous Transmission Scenario with 2.4 GHz Bluetooth TxBF, 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 3 SAR (W/kg)	2.4 GHz Bluetooth Ant 2a with 6 dB backoff SAR (W/kg)	2.4 GHz Bluetooth Ant 4a with 7 dB backoff SAR (W/kg)	5 GHz WIFI Ant 4a with 5.5 dB backoff SAR (W/kg)	5 GHz WIFI Ant 2a SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	5	6	1+2+3+4+5+6
Body SAR	Back	0.993	0.271	0.231	0.319	1.184	0.032	1.575*
	Top	0.993	0.029	0.071	0.040	0.000	0.000	1.133
	Bottom	0.127	0.078	0.020	0.001	0.171	0.000	0.397
	Right	0.994	0.219	0.000	0.000	0.391	0.003	0.997*
	Left	0.084	0.000	0.183	0.077	0.000	0.000	0.344

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Table 11-72

Cellular Band Ant 4b Simultaneous Transmission Scenario with 2.4 GHz Bluetooth TxBF, 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 4b SAR (W/kg)	2.4 GHz Bluetooth Ant 2a with 6 dB backoff SAR (W/kg)	2.4 GHz Bluetooth Ant 4a with 7 dB backoff SAR (W/kg)	5 GHz WIFI Ant 4a with 5.5 dB backoff SAR (W/kg)	5 GHz WIFI Ant 2a SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	5	6	1+2+3+4+5+6
Body SAR	Back	0.744	0.271	0.231	0.319	1.184	0.032	1.487*
	Top	0.994	0.029	0.071	0.040	0.000	0.000	1.134
	Bottom	0.001	0.078	0.020	0.001	0.171	0.000	0.271
	Right	0.022	0.219	0.000	0.000	0.391	0.003	0.635
	Left	0.063	0.000	0.183	0.077	0.000	0.000	0.323

Table 11-73

Cellular Band Ant 1 Simultaneous Transmission Scenario with 2.4 GHz Bluetooth TxBF, 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 1 SAR (W/kg)	2.4 GHz Bluetooth Ant 2a with 6 dB backoff SAR (W/kg)	2.4 GHz Bluetooth Ant 4a with 6 dB backoff SAR (W/kg)	6 GHz WIFI Ant 4a SAR (W/kg)	6 GHz WIFI Ant WF5B SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	5	6	1+2+3+4+5+6
Body SAR	Back	0.994	0.271	0.311	1.184	0.159	0.032	1.527*
	Top	0.050	0.029	0.100	0.191	0.004	0.000	0.374
	Bottom	0.994	0.078	0.020	0.003	0.121	0.000	1.216
	Right	0.085	0.219	0.000	0.000	1.174	0.003	1.481
	Left	0.938	0.000	0.256	0.189	0.036	0.000	1.419

Table 11-74

Cellular Band Ant 2b Simultaneous Transmission Scenario with 2.4 GHz Bluetooth TxBF, 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 2b SAR (W/kg)	2.4 GHz Bluetooth Ant 2a with 7 dB backoff SAR (W/kg)	2.4 GHz Bluetooth Ant 4a with 6 dB backoff SAR (W/kg)	6 GHz WIFI Ant 4a SAR (W/kg)	6 GHz WIFI Ant WF5B SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	5	6	1+2+3+4+5+6
Body SAR	Back	0.993	0.215	0.311	1.184	0.159	0.032	1.527*
	Top	0.006	0.029	0.100	0.191	0.004	0.000	0.330
	Bottom	0.994	0.060	0.020	0.003	0.121	0.000	1.198
	Right	0.082	0.178	0.000	0.000	1.174	0.003	1.437
	Left	0.061	0.000	0.256	0.189	0.036	0.000	0.542

Table 11-75

Cellular Band Ant 3 Simultaneous Transmission Scenario with 2.4 GHz Bluetooth TxBF, 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 3 SAR (W/kg)	2.4 GHz Bluetooth Ant 2a with 6 dB backoff SAR (W/kg)	2.4 GHz Bluetooth Ant 4a with 7 dB backoff SAR (W/kg)	6 GHz WIFI Ant 4a with 5.5 dB backoff SAR (W/kg)	6 GHz WIFI Ant WF5B SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	5	6	1+2+3+4+5+6
Body SAR	Back	0.993	0.271	0.231	0.134	0.159	0.032	1.549*
	Top	0.993	0.029	0.071	0.027	0.004	0.000	1.124
	Bottom	0.127	0.078	0.020	0.003	0.121	0.000	0.349
	Right	0.994	0.219	0.000	0.000	1.174	0.003	1.396*
	Left	0.084	0.000	0.183	0.012	0.036	0.000	0.315

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Table 11-76

Cellular Band Ant 4b Simultaneous Transmission Scenario with 2.4 GHz Bluetooth TxBF, 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 4b SAR (W/kg)	2.4 GHz Bluetooth Ant 2a with 6 dB backoff SAR (W/kg)	2.4 GHz Bluetooth Ant 4a with 7 dB backoff SAR (W/kg)	6 GHz WIFI Ant 4a with 5.5 dB backoff SAR (W/kg)	6 GHz WIFI Ant WF5B SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	5	6	1+2+3+4+5+6
Body SAR	Back	0.744	0.271	0.231	0.134	0.159	0.032	1.571
	Top	0.994	0.029	0.071	0.027	0.004	0.000	1.125
	Bottom	0.001	0.078	0.020	0.003	0.121	0.000	0.223
	Right	0.022	0.219	0.000	0.000	1.174	0.003	1.418
	Left	0.063	0.000	0.183	0.012	0.036	0.000	0.294

Table 11-77

Cellular Band Ant 1 Simultaneous Transmission Scenario with 2.4 GHz Bluetooth TxBF, 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 1 SAR (W/kg)	2.4 GHz Bluetooth Ant 2a with 6 dB backoff SAR (W/kg)	2.4 GHz Bluetooth Ant 4a with 6 dB backoff SAR (W/kg)	6 GHz WIFI Ant 4a SAR (W/kg)	6 GHz WIFI Ant 2a SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	5	6	1+2+3+4+5+6
Body SAR	Back	0.994	0.271	0.311	1.184	1.184	0.032	1.527*
	Top	0.050	0.029	0.100	0.191	0.000	0.000	0.370
	Bottom	0.994	0.078	0.020	0.003	0.162	0.000	1.257
	Right	0.085	0.219	0.000	0.000	0.133	0.003	0.440
	Left	0.938	0.000	0.256	0.189	0.000	0.000	1.383

Table 11-78

Cellular Band Ant 2b Simultaneous Transmission Scenario with 2.4 GHz Bluetooth TxBF, 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 2b SAR (W/kg)	2.4 GHz Bluetooth Ant 2a with 7 dB backoff SAR (W/kg)	2.4 GHz Bluetooth Ant 4a with 6 dB backoff SAR (W/kg)	6 GHz WIFI Ant 4a SAR (W/kg)	6 GHz WIFI Ant 2a with 5.5 dB backoff SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	5	6	1+2+3+4+5+6
Body SAR	Back	0.993	0.215	0.311	1.184	0.226	0.032	1.527*
	Top	0.006	0.029	0.100	0.191	0.000	0.000	0.326
	Bottom	0.994	0.060	0.020	0.003	0.036	0.000	1.113
	Right	0.082	0.178	0.000	0.000	0.020	0.003	0.283
	Left	0.061	0.000	0.256	0.189	0.000	0.000	0.506

Table 11-79

Cellular Band Ant 3 Simultaneous Transmission Scenario with 2.4 GHz Bluetooth TxBF, 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 3 SAR (W/kg)	2.4 GHz Bluetooth Ant 2a with 6 dB backoff SAR (W/kg)	2.4 GHz Bluetooth Ant 4a with 7 dB backoff SAR (W/kg)	6 GHz WIFI Ant 4a with 5.5 dB backoff SAR (W/kg)	6 GHz WIFI Ant 2a SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	5	6	1+2+3+4+5+6
Body SAR	Back	0.993	0.271	0.231	0.134	1.184	0.032	1.487*
	Top	0.993	0.029	0.071	0.027	0.000	0.000	1.120
	Bottom	0.127	0.078	0.020	0.003	0.162	0.000	0.390
	Right	0.994	0.219	0.000	0.000	0.133	0.003	1.349
	Left	0.084	0.000	0.183	0.012	0.000	0.000	0.279

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Table 11-80

Cellular Band Ant 4b Simultaneous Transmission Scenario with 2.4 GHz Bluetooth TxBF, 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 4b SAR (W/kg)	2.4 GHz Bluetooth Ant 2a with 6 dB backoff SAR (W/kg)	2.4 GHz Bluetooth Ant 4a with 7 dB backoff SAR (W/kg)	6 GHz WIFI Ant 4a with 5.5 dB backoff SAR (W/kg)	6 GHz WIFI Ant 2a SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	5	6	1+2+3+4+5+6
Body SAR	Back	0.744	0.271	0.231	0.134	1.184	0.032	1.487*
	Top	0.994	0.029	0.071	0.027	0.000	0.000	1.121
	Bottom	0.001	0.078	0.020	0.003	0.162	0.000	0.264
	Right	0.022	0.219	0.000	0.000	0.133	0.003	0.377
	Left	0.063	0.000	0.183	0.012	0.000	0.000	0.258

Table 11-81

Cellular Band Ant 1 Simultaneous Transmission Scenario with NB U-NII TxBF, 2.4 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 1 SAR (W/kg)	NB U-NII Ant WF5B with 5 dB backoff SAR (W/kg)	NB U-NII Ant 4a with 6 dB backoff SAR (W/kg)	2.4 GHz WIFI Ant 4a SAR (W/kg)	2.4 GHz WIFI Ant 2a SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	5	6	1+2+3+4+5+6
Body SAR	Back	0.994	0.043	0.190	1.178	1.180	0.032	1.443*
	Top	0.050	0.000	0.022	0.385	0.022	0.000	0.479
	Bottom	0.994	0.003	0.005	0.020	0.450	0.000	1.472
	Right	0.085	0.264	0.000	0.000	1.029	0.003	1.381
	Left	0.938	0.000	0.052	1.015	0.002	0.000	1.069*

Table 11-82

Cellular Band Ant 2b Simultaneous Transmission Scenario with NB U-NII TxBF, 2.4 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 2b SAR (W/kg)	NB U-NII Ant WF5B with 5 dB backoff SAR (W/kg)	NB U-NII Ant 4a with 6 dB backoff SAR (W/kg)	2.4 GHz WIFI Ant 4a SAR (W/kg)	2.4 GHz WIFI Ant 2a with 5.5 dB backoff SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	5	6	1+2+3+4+5+6
Body SAR	Back	0.993	0.043	0.190	1.178	0.287	0.032	1.443*
	Top	0.006	0.000	0.022	0.385	0.022	0.000	0.435
	Bottom	0.994	0.003	0.005	0.020	0.111	0.000	1.133
	Right	0.082	0.264	0.000	0.000	0.253	0.003	0.602
	Left	0.061	0.000	0.052	1.015	0.002	0.000	1.130

Table 11-83

Cellular Band Ant 3 Simultaneous Transmission Scenario with NB U-NII TxBF, 2.4 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 3 SAR (W/kg)	NB U-NII Ant WF5B with 5 dB backoff SAR (W/kg)	NB U-NII Ant 4a with 7 dB backoff SAR (W/kg)	2.4 GHz WIFI Ant 4a with 5.5 dB backoff SAR (W/kg)	2.4 GHz WIFI Ant 2a SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	5	6	1+2+3+4+5+6
Body SAR	Back	0.993	0.043	0.162	0.240	1.180	0.032	1.47*
	Top	0.993	0.000	0.007	0.082	0.022	0.000	1.104
	Bottom	0.127	0.003	0.005	0.020	0.450	0.000	0.605
	Right	0.994	0.264	0.000	0.000	1.029	0.003	1.296*
	Left	0.084	0.000	0.052	0.219	0.002	0.000	0.357

Table 11-84

Cellular Band Ant 4b Simultaneous Transmission Scenario with NB U-NII TxBF, 2.4 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 4b SAR (W/kg)	NB U-NII Ant WF5B with 5 dB backoff SAR (W/kg)	NB U-NII Ant 4a with 7 dB backoff SAR (W/kg)	2.4 GHz WIFI Ant 4a with 5.5 dB backoff SAR (W/kg)	2.4 GHz WIFI Ant 2a SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	5	6	1+2+3+4+5+6
Body SAR	Back	0.744	0.043	0.162	0.240	1.180	0.032	1.255*
	Top	0.994	0.000	0.007	0.082	0.022	0.000	1.105
	Bottom	0.001	0.003	0.005	0.020	0.450	0.000	0.479
	Right	0.022	0.264	0.000	0.000	1.029	0.003	1.318
	Left	0.063	0.000	0.052	0.219	0.002	0.000	0.336

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Table 11-85

Cellular Band Ant 1 Simultaneous Transmission Scenario with NB U-NII TxBF and wPT

Simult Tx	Configuration	Cellular Band Ant 1 SAR (W/kg)	NB U-NII Ant WF5B SAR (W/kg)	NB U-NII Ant 4a SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.994	0.043	1.177	0.032	1.252*
	Top	0.050	0.000	0.121	0.000	0.171
	Bottom	0.994	0.003	0.005	0.000	1.002
	Right	0.085	0.322	0.000	0.003	0.410
	Left	0.938	0.000	0.308	0.000	1.246

Table 11-86

Cellular Band Ant 2b Simultaneous Transmission Scenario with NB U-NII TxBF and wPT

Simult Tx	Configuration	Cellular Band Ant 2b SAR (W/kg)	NB U-NII Ant WF5B SAR (W/kg)	NB U-NII Ant 4a SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.993	0.043	1.177	0.032	1.252*
	Top	0.006	0.000	0.121	0.000	0.127
	Bottom	0.994	0.003	0.005	0.000	1.002
	Right	0.082	0.322	0.000	0.003	0.407
	Left	0.061	0.000	0.308	0.000	0.369

Table 11-87

Cellular Band Ant 3 Simultaneous Transmission Scenario with NB U-NII TxBF and wPT

Simult Tx	Configuration	Cellular Band Ant 3 SAR (W/kg)	NB U-NII Ant WF5B SAR (W/kg)	NB U-NII Ant 4a with 3 dB backoff SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.993	0.043	0.458	0.032	1.526
	Top	0.993	0.000	0.055	0.000	1.048
	Bottom	0.127	0.003	0.005	0.000	0.135
	Right	0.994	0.322	0.000	0.003	1.319
	Left	0.084	0.000	0.082	0.000	0.166

Table 11-88

Cellular Band Ant 4b Simultaneous Transmission Scenario with NB U-NII TxBF and wPT

Simult Tx	Configuration	Cellular Band Ant 4b SAR (W/kg)	NB U-NII Ant WF5B SAR (W/kg)	NB U-NII Ant 4a with 3 dB backoff SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.744	0.043	0.458	0.032	1.277
	Top	0.994	0.000	0.055	0.000	1.049
	Bottom	0.001	0.003	0.005	0.000	0.009
	Right	0.022	0.322	0.000	0.003	0.347
	Left	0.063	0.000	0.082	0.000	0.145

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Table 11-89

Cellular Band Ant 1 Simultaneous Transmission Scenario with NB U-NII and wPT

Simult Tx	Configuration	Cellular Band Ant 1 SAR (W/kg)	NB U-NII Ant 2a SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Body SAR	Back	0.994	1.180	0.032	1.212*
	Top	0.050	0.003	0.000	0.053
	Bottom	0.994	0.173	0.000	1.167
	Right	0.085	0.418	0.003	0.506
	Left	0.938	0.000	0.000	0.938

Table 11-90

Cellular Band Ant 2b Simultaneous Transmission Scenario with NB U-NII and wPT

Simult Tx	Configuration	Cellular Band Ant 2b SAR (W/kg)	NB U-NII Ant 2a with 3 dB backoff SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Body SAR	Back	0.993	0.350	0.032	1.375
	Top	0.006	0.003	0.000	0.009
	Bottom	0.994	0.048	0.000	1.042
	Right	0.082	0.151	0.003	0.236
	Left	0.061	0.000	0.000	0.061

Table 11-91

Cellular Band Ant 3 Simultaneous Transmission Scenario with NB U-NII and wPT

Simult Tx	Configuration	Cellular Band Ant 3 SAR (W/kg)	NB U-NII Ant 2a SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Body SAR	Back	0.993	1.180	0.032	1.212*
	Top	0.993	0.003	0.000	0.996
	Bottom	0.127	0.173	0.000	0.300
	Right	0.994	0.418	0.003	1.415
	Left	0.084	0.000	0.000	0.084

Table 11-92

Cellular Band Ant 4b Simultaneous Transmission Scenario with NB U-NII and wPT

Simult Tx	Configuration	Cellular Band Ant 4b SAR (W/kg)	NB U-NII Ant 2a SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Body SAR	Back	0.744	1.180	0.032	1.212*
	Top	0.994	0.003	0.000	0.997
	Bottom	0.001	0.173	0.000	0.174
	Right	0.022	0.418	0.003	0.443
	Left	0.063	0.000	0.000	0.063

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Table 11-93

Cellular Band Ant 1 Simultaneous Transmission Scenario with NB U-NII, 2.4 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 1 SAR (W/kg)	NB U-NII Ant 2a with 6 dB backoff SAR (W/kg)	2.4 GHz WIFI Ant 4a SAR (W/kg)	2.4 GHz WIFI Ant 2a SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.994	0.290	1.178	1.180	0.032	1.502*
	Top	0.050	0.003	0.385	0.022	0.000	0.460
	Bottom	0.994	0.037	0.020	0.450	0.000	1.501
	Right	0.085	0.089	0.000	1.029	0.003	1.206
	Left	0.938	0.000	1.015	0.002	0.000	1.017*

Table 11-94

Cellular Band Ant 2b Simultaneous Transmission Scenario with NB U-NII, 2.4 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 2b SAR (W/kg)	NB U-NII Ant 2a with 7 dB backoff SAR (W/kg)	2.4 GHz WIFI Ant 4a SAR (W/kg)	2.4 GHz WIFI Ant 2a with 5.5 dB backoff SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.993	0.248	1.178	0.287	0.032	1.56*
	Top	0.006	0.003	0.385	0.022	0.000	0.416
	Bottom	0.994	0.028	0.020	0.111	0.000	1.153
	Right	0.082	0.060	0.000	0.253	0.003	0.398
	Left	0.061	0.000	1.015	0.002	0.000	1.078

Table 11-95

Cellular Band Ant 3 Simultaneous Transmission Scenario with NB U-NII, 2.4 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 3 SAR (W/kg)	NB U-NII Ant 2a with 6 dB backoff SAR (W/kg)	2.4 GHz WIFI Ant 4a with 5.5 dB backoff SAR (W/kg)	2.4 GHz WIFI Ant 2a SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.993	0.290	0.240	1.180	0.032	1.502*
	Top	0.993	0.003	0.082	0.022	0.000	1.100
	Bottom	0.127	0.037	0.020	0.450	0.000	0.634
	Right	0.994	0.089	0.000	1.029	0.003	1.121*
	Left	0.084	0.000	0.219	0.002	0.000	0.305

Table 11-96

Cellular Band Ant 4b Simultaneous Transmission Scenario with NB U-NII, 2.4 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 4b SAR (W/kg)	NB U-NII Ant 2a with 6 dB backoff SAR (W/kg)	2.4 GHz WIFI Ant 4a with 5.5 dB backoff SAR (W/kg)	2.4 GHz WIFI Ant 2a SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.744	0.290	0.240	1.180	0.032	1.502*
	Top	0.994	0.003	0.082	0.022	0.000	1.101
	Bottom	0.001	0.037	0.020	0.450	0.000	0.508
	Right	0.022	0.089	0.000	1.029	0.003	1.143
	Left	0.063	0.000	0.219	0.002	0.000	0.284

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Table 11-97

Cellular Band Ant 1 Simultaneous Transmission Scenario with 2.4 GHz Bluetooth, 2.4 GHz WIFI and wPT

Simult Tx	Configuration	Cellular Band Ant 1 SAR (W/kg)	2.4 GHz Bluetooth Ant 2a SAR (W/kg)	2.4 GHz WIFI Ant 4a SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.994	1.163	1.178	0.032	1.21*
	Top	0.050	0.029	0.385	0.000	0.464
	Bottom	0.994	0.444	0.020	0.000	1.458
	Right	0.085	1.028	0.000	0.003	1.116
	Left	0.938	0.000	1.015	0.000	1.015*

Table 11-98

Cellular Band Ant 2b Simultaneous Transmission Scenario with 2.4 GHz Bluetooth, 2.4 GHz WIFI and wPT

Simult Tx	Configuration	Cellular Band Ant 2b SAR (W/kg)	2.4 GHz Bluetooth Ant 2a with 3 dB backoff SAR (W/kg)	2.4 GHz WIFI Ant 4a SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.993	0.533	1.178	0.032	1.558*
	Top	0.006	0.029	0.385	0.000	0.420
	Bottom	0.994	0.160	0.020	0.000	1.174
	Right	0.082	0.446	0.000	0.003	0.531
	Left	0.061	0.000	1.015	0.000	1.076

Table 11-99

Cellular Band Ant 3 Simultaneous Transmission Scenario with 2.4 GHz Bluetooth, 2.4 GHz WIFI and wPT

Simult Tx	Configuration	Cellular Band Ant 3 SAR (W/kg)	2.4 GHz Bluetooth Ant 2a SAR (W/kg)	2.4 GHz WIFI Ant 4a with 5.5 dB backoff SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.993	1.163	0.240	0.032	1.435*
	Top	0.993	0.029	0.082	0.000	1.104
	Bottom	0.127	0.444	0.020	0.000	0.591
	Right	0.994	1.028	0.000	0.003	1.031*
	Left	0.084	0.000	0.219	0.000	0.303

Table 11-100

Cellular Band Ant 4b Simultaneous Transmission Scenario with 2.4 GHz Bluetooth, 2.4 GHz WIFI and wPT

Simult Tx	Configuration	Cellular Band Ant 4b SAR (W/kg)	2.4 GHz Bluetooth Ant 2a SAR (W/kg)	2.4 GHz WIFI Ant 4a with 5.5 dB backoff SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.744	1.163	0.240	0.032	1.195*
	Top	0.994	0.029	0.082	0.000	1.105
	Bottom	0.001	0.444	0.020	0.000	0.465
	Right	0.022	1.028	0.000	0.003	1.053
	Left	0.063	0.000	0.219	0.000	0.282

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Table 11-101

Cellular Band Ant 1 Simultaneous Transmission Scenario with 802.15.4, 2.4 GHz WIFI and wPT

Simult Tx	Configuration	Cellular Band Ant 1 SAR (W/kg)	802.15.4 Ant 2a SAR (W/kg)	2.4 GHz WIFI Ant 4a SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.994	1.027	1.178	0.032	1.21*
	Top	0.050	0.031	0.385	0.000	0.466
	Bottom	0.994	0.249	0.020	0.000	1.263
	Right	0.085	0.549	0.000	0.003	0.637
	Left	0.938	0.000	1.015	0.000	1.015*

Table 11-102

Cellular Band Ant 2b Simultaneous Transmission Scenario with 802.15.4, 2.4 GHz WIFI and wPT

Simult Tx	Configuration	Cellular Band Ant 2b SAR (W/kg)	802.15.4 Ant 2a with 3 dB backoff SAR (W/kg)	2.4 GHz WIFI Ant 4a SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.993	0.335	1.178	0.032	1.36*
	Top	0.006	0.031	0.385	0.000	0.422
	Bottom	0.994	0.125	0.020	0.000	1.139
	Right	0.082	0.300	0.000	0.003	0.385
	Left	0.061	0.000	1.015	0.000	1.076

Table 11-103

Cellular Band Ant 3 Simultaneous Transmission Scenario with 802.15.4, 2.4 GHz WIFI and wPT

Simult Tx	Configuration	Cellular Band Ant 3 SAR (W/kg)	802.15.4 Ant 2a SAR (W/kg)	2.4 GHz WIFI Ant 4a with 5.5 dB backoff SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.993	1.027	0.240	0.032	1.299*
	Top	0.993	0.031	0.082	0.000	1.106
	Bottom	0.127	0.249	0.020	0.000	0.396
	Right	0.994	0.549	0.000	0.003	1.546
	Left	0.084	0.000	0.219	0.000	0.303

Table 11-104

Cellular Band Ant 4b Simultaneous Transmission Scenario with 802.15.4, 2.4 GHz WIFI and wPT

Simult Tx	Configuration	Cellular Band Ant 4b SAR (W/kg)	802.15.4 Ant 2a SAR (W/kg)	2.4 GHz WIFI Ant 4a with 5.5 dB backoff SAR (W/kg)	wPT SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.744	1.027	0.240	0.032	1.059*
	Top	0.994	0.031	0.082	0.000	1.107
	Bottom	0.001	0.249	0.020	0.000	0.270
	Right	0.022	0.549	0.000	0.003	0.574
	Left	0.063	0.000	0.219	0.000	0.282

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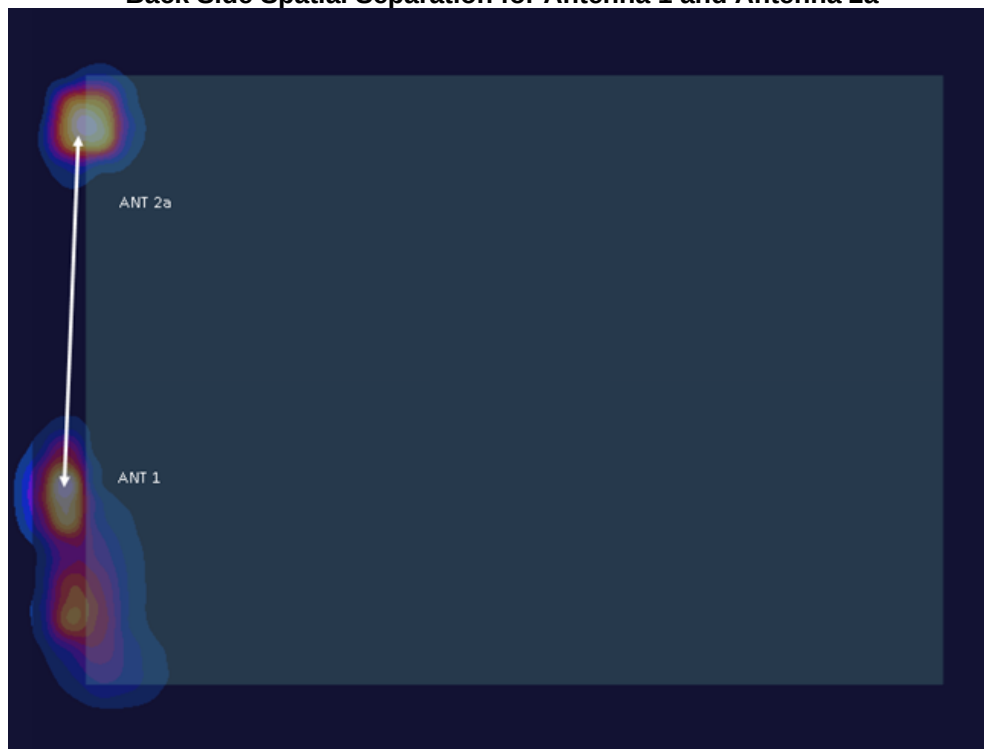
11.4 Spatial Separation Analysis

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

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

11.4.1 Back Side Spatial Separation Analysis

Figure 11-1
Back Side Spatial Separation for Antenna 1 and Antenna 2a



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Figure 11-2
Back Side Spatial Separation for Antenna 1 and Antenna 4a

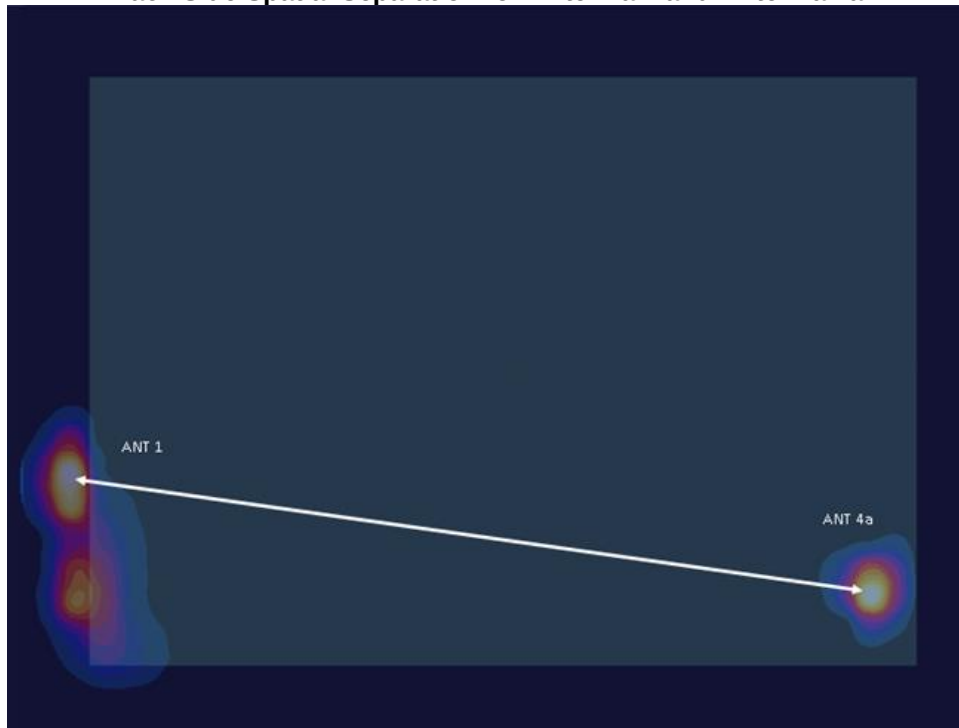
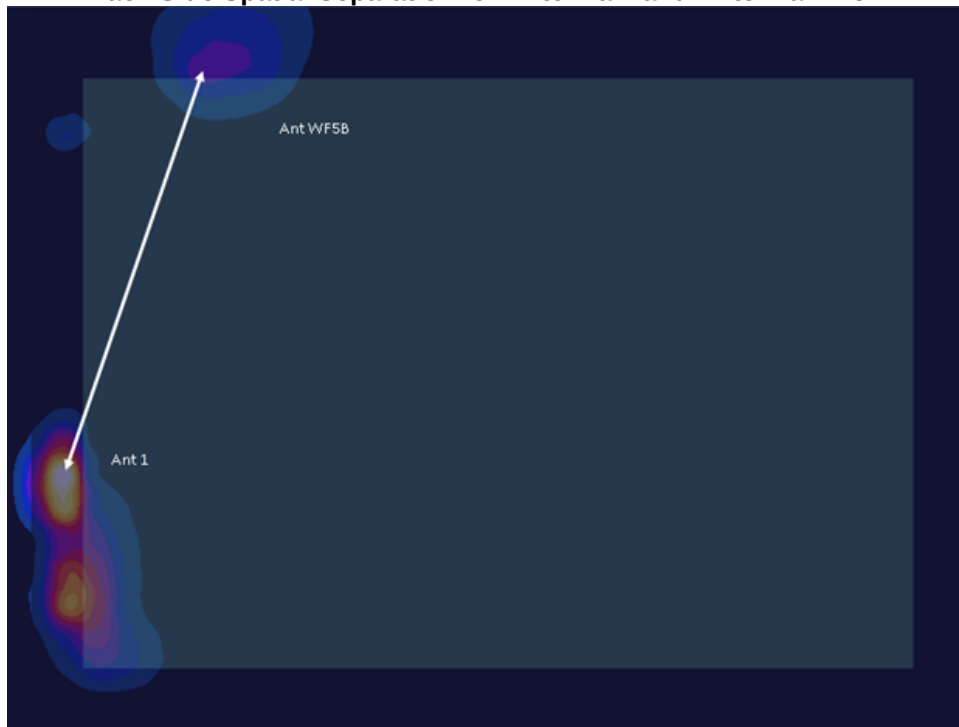


Figure 11-3
Back Side Spatial Separation for Antenna 1 and Antenna WF5B



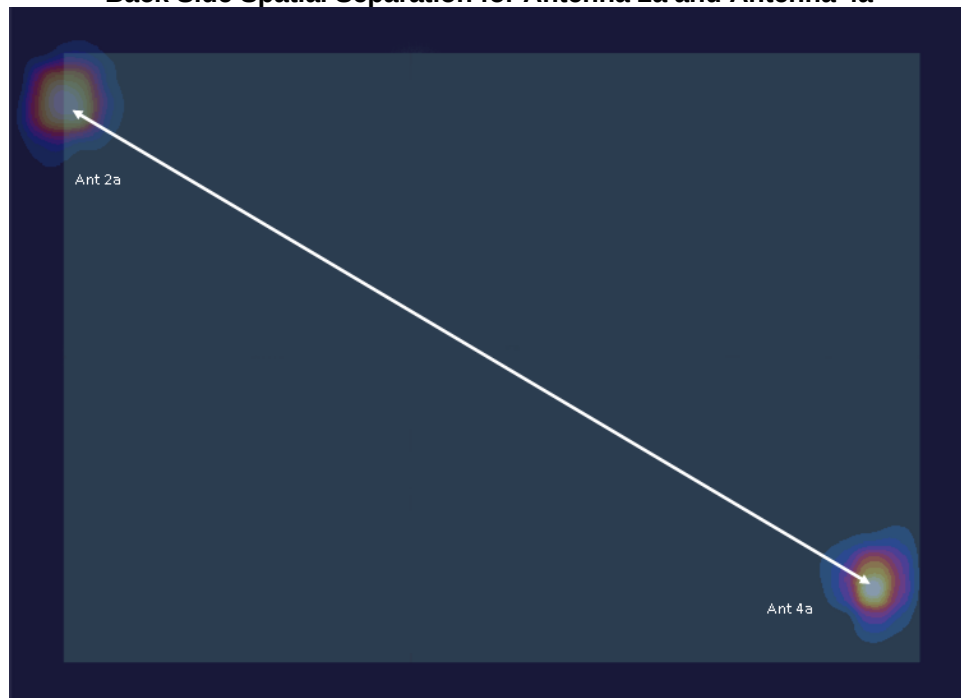
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Figure 11-4
Back Side Spatial Separation for Antenna 2a and Antenna 3



Figure 11-5
Back Side Spatial Separation for Antenna 2a and Antenna 4a

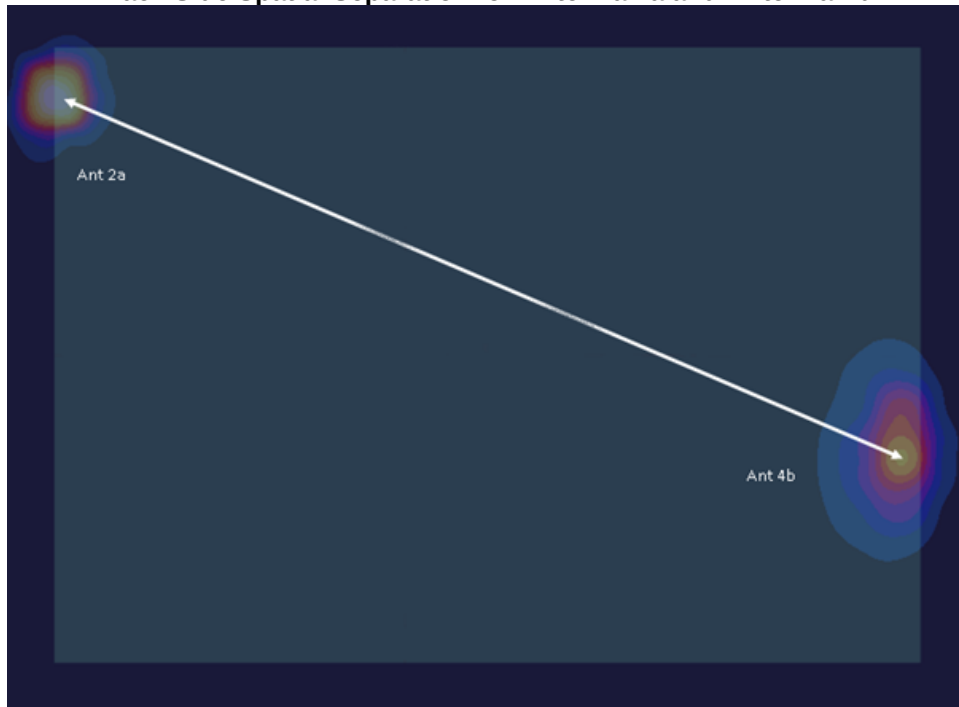


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Figure 11-6
Back Side Spatial Separation for Antenna 2a and Antenna 4b

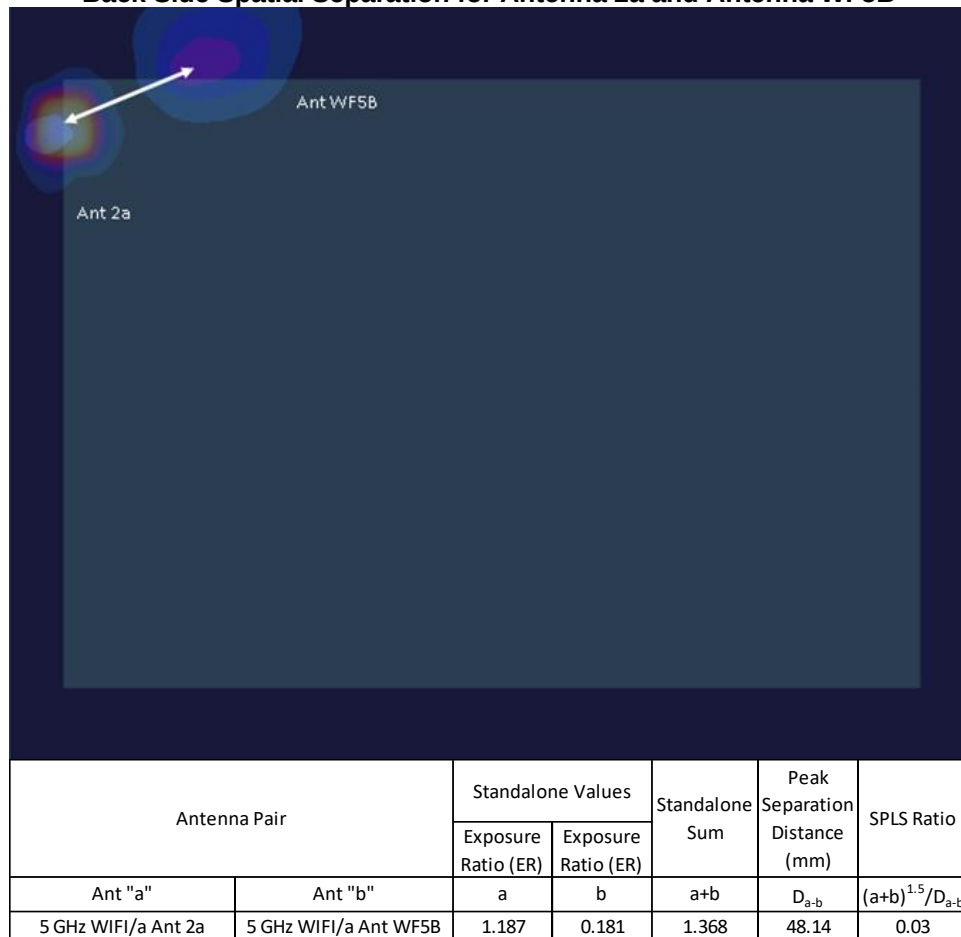


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Figure 11-7
Back Side Spatial Separation for Antenna 2a and Antenna WF5B



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Figure 11-8
Back Side Spatial Separation for Antenna 2b and Antenna 4a

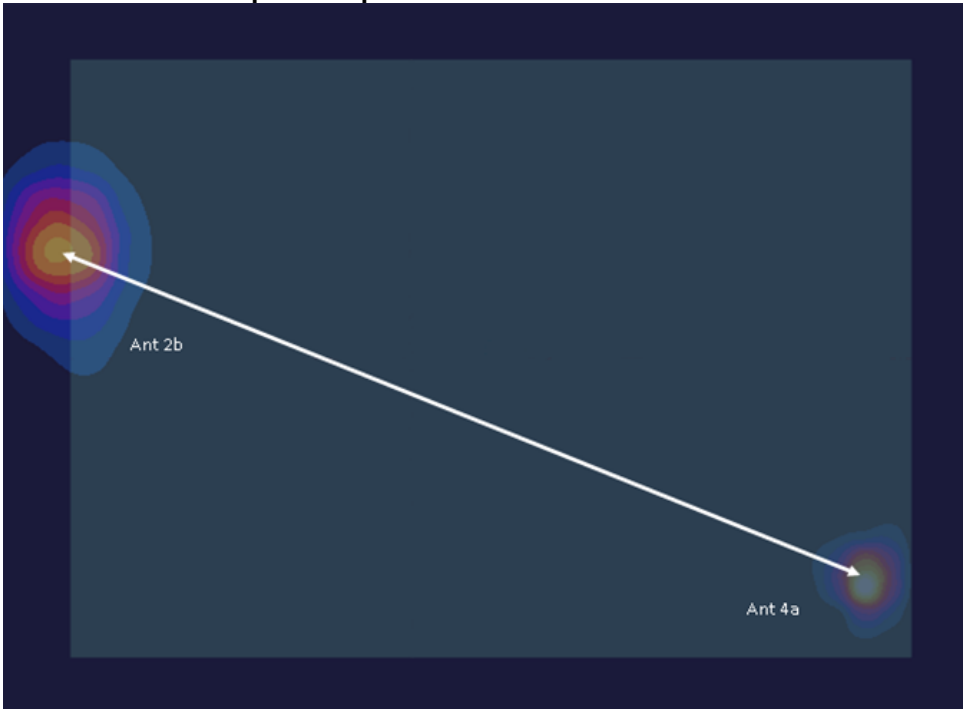
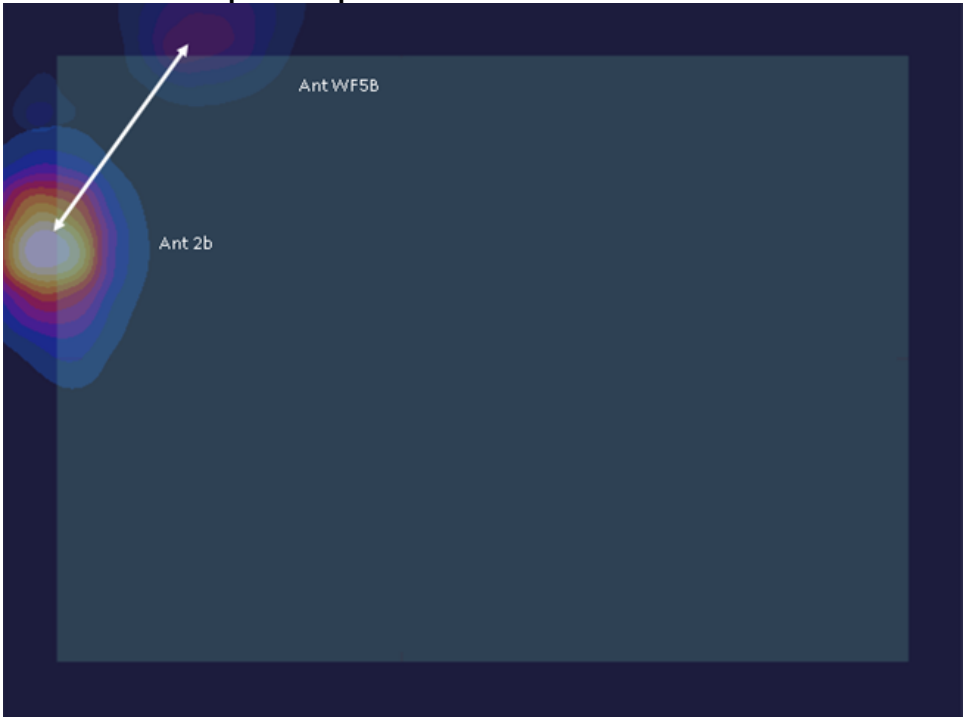


Figure 11-9
Back Side Spatial Separation for Antenna 2b and Antenna WF5B



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Figure 11-10
Back Side Spatial Separation for Antenna 3 and Antenna 4a

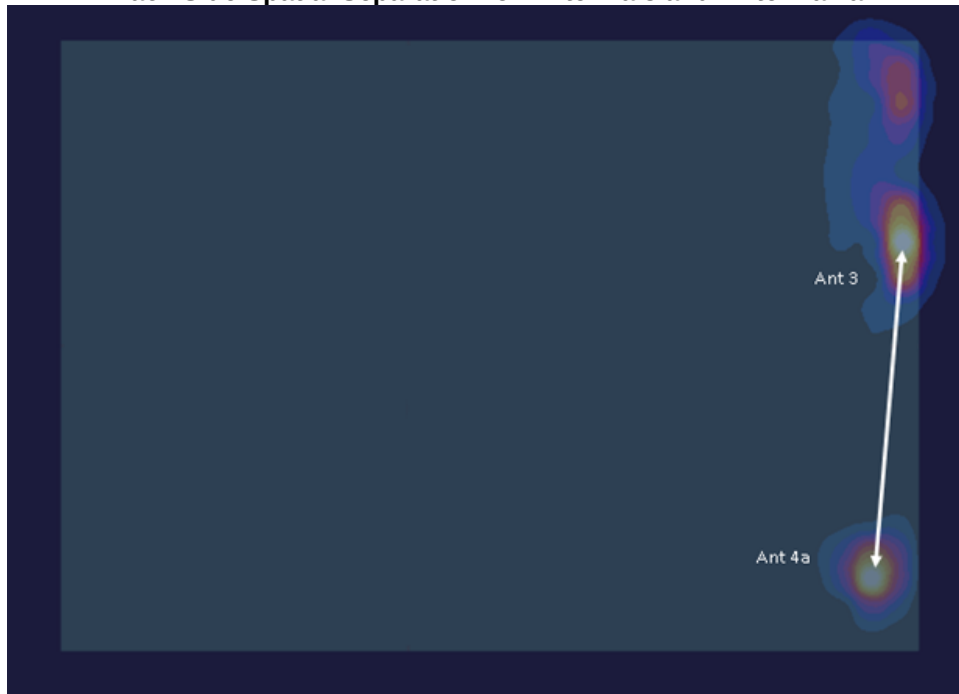
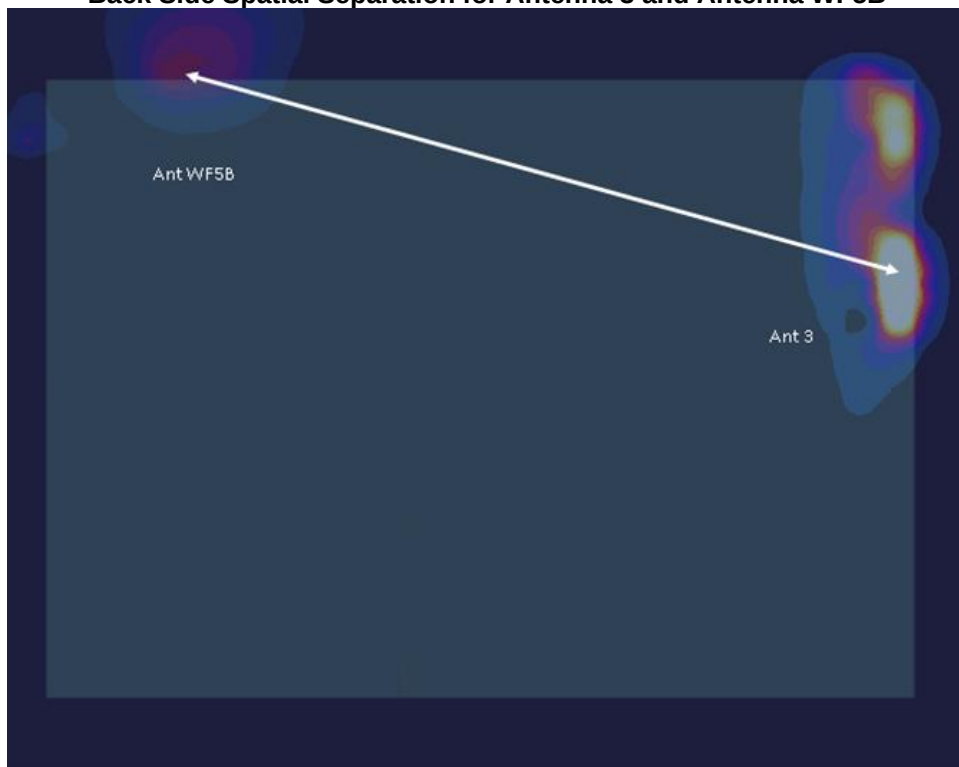


Figure 11-11
Back Side Spatial Separation for Antenna 3 and Antenna WF5B

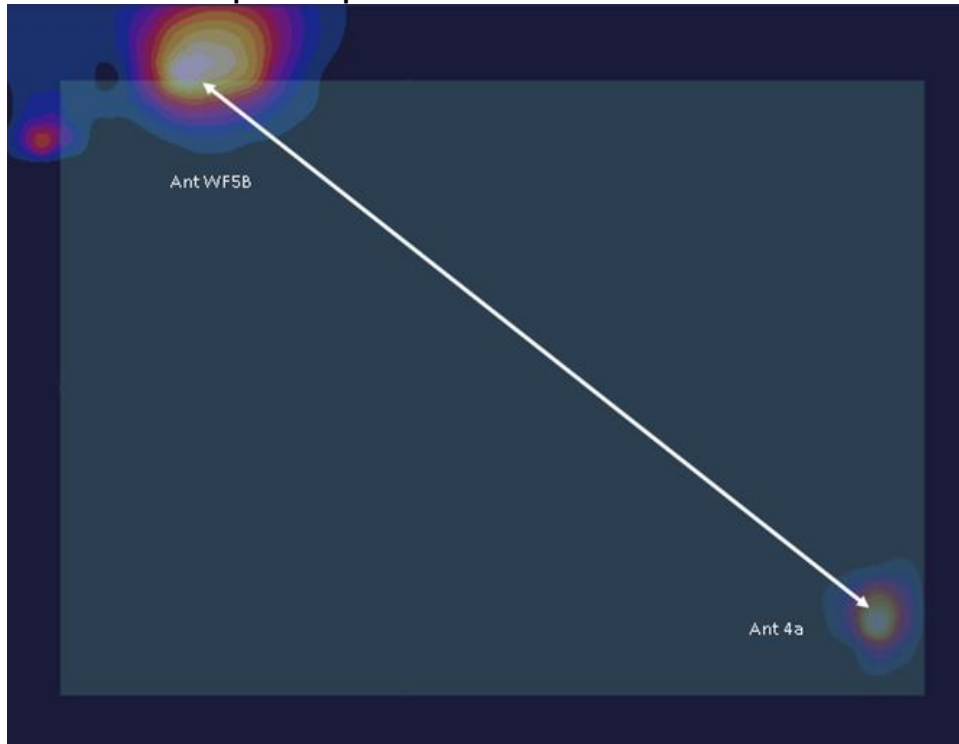


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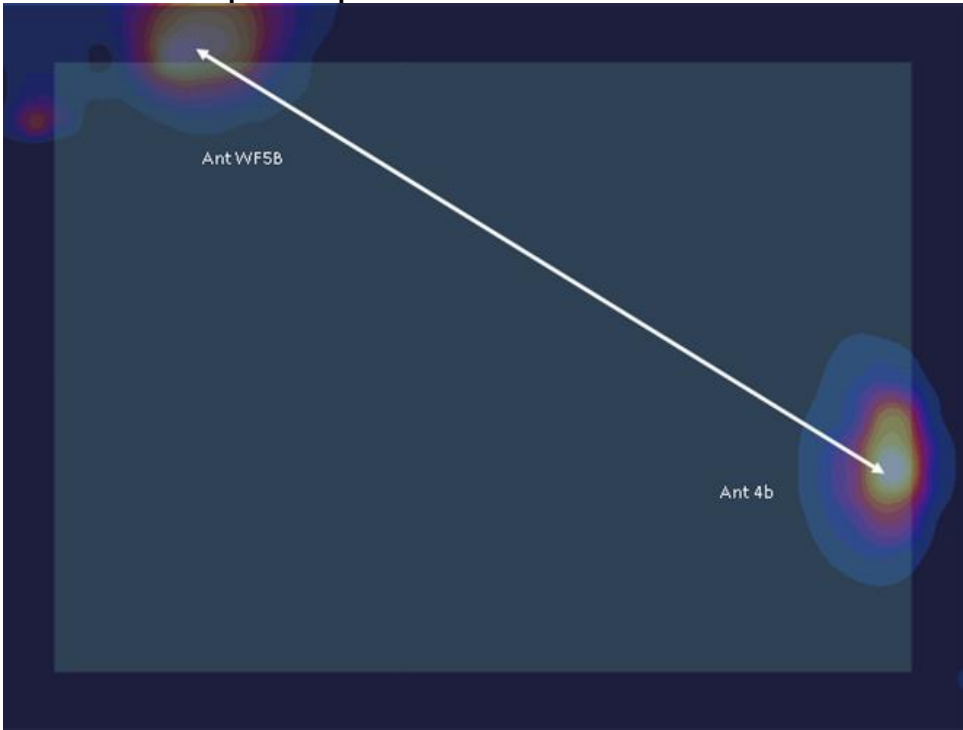
Figure 11-12
Back Side Spatial Separation for Antenna 4a and Antenna WF5B



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Figure 11-13
Back Side Spatial Separation for Antenna 4b and Antenna WF5B



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11.4.2 Right Edge Spatial Separation Analysis

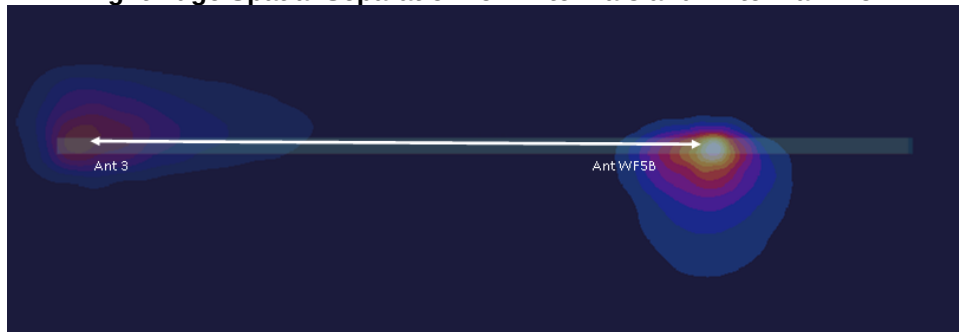
Figure 11-14

Right Edge Spatial Separation for Antenna 2a and Antenna 3



Figure 11-15

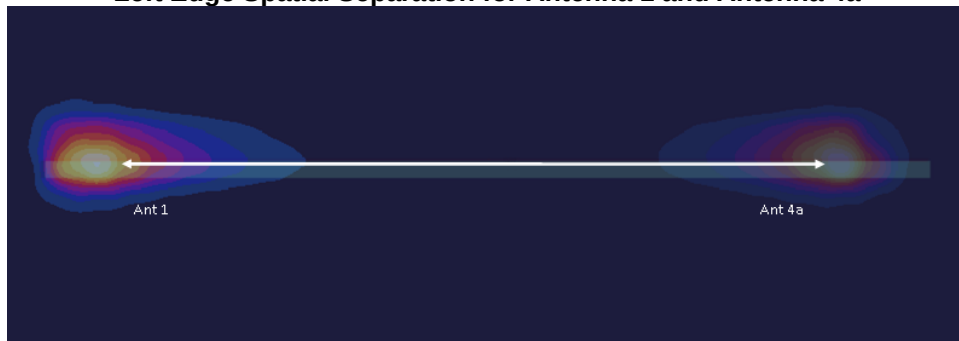
Right Edge Spatial Separation for Antenna 3 and Antenna WF5B



11.4.3 Left Edge Spatial Separation Analysis

Figure 11-16

Left Edge Spatial Separation for Antenna 1 and Antenna 4a



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11.5 Simultaneous Transmission Conclusion

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

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12 SAR MEASUREMENT VARIABILITY

12.1 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 12-1
Body SAR Measurement Variability Results

BODY VARIABILITY RESULTS													
Band	FREQUENCY		Mode	Service	Ant	Data Rate (Mbps)	Side	Spacing	Measured SAR (1g)	1st Repeated SAR (1g)	Ratio	2nd Repeated SAR (1g)	Ratio
	MHz	Ch.							(W/kg)	(W/kg)		(W/kg)	
750	680.5	136100	NR Band n71, 20 MHz Bandwidth	QPSK, 50 RB, 0 RB Offset	Ant 3	N/A	Top	0 mm	0.847	0.802	1.06	N/A	N/A
1750	1745.00	349000	NR Band n66, 40 MHz Bandwidth	QPSK, 216 RB, 0 RB Offset	Ant 1	N/A	Back	0 mm	0.972	0.962	1.01	N/A	N/A
1900	1882.50	376500	NR Band n25, 40 MHz Bandwidth	QPSK, 1 RB, 1 RB Offset	Ant 2b	N/A	Back	0 mm	0.894	0.775	1.15	N/A	N/A
2300	2310.00	27710	LTE Band 30, 10 MHz Bandwidth	QPSK, 50 RB, 0 RB Offset	Ant 3	N/A	Back	0 mm	0.839	0.773	1.09	N/A	N/A
2450	2440.00	18	802.15.4	CW	Ant 1	0.25	Back	0 mm	1.460	1.460	1.00	1.45	1.00
2600	2592.99	518598	NR Band n41, 100 MHz Bandwidth	QPSK, 135 RB, 138 RB Offset	Ant 3	N/A	Back	0 mm	0.946	0.942	1.00	N/A	N/A
3500	3570.00	638000	NR Band n48, 40 MHz Bandwidth	QPSK, 1 RB, 1 RB Offset	Ant 3	N/A	Right	0 mm	0.867	0.754	1.15	N/A	N/A
3700	3679.98	645332	NR Band n48, 40 MHz Bandwidth	QPSK, 100 RB, 1 RB Offset	Ant 3	N/A	Back	0 mm	0.937	0.829	1.13	N/A	N/A
3900	3930.00	662000	NR Band n77, 100 MHz Bandwidth	QPSK, 1 RB, 1 RB Offset	Ant 3	N/A	Right	0 mm	0.858	0.737	1.16	N/A	N/A
5250	5245.00	High	NB U-NII 1	FHSS	Ant 1	1	Back	0 mm	1.070	0.963	1.11	N/A	N/A
5750	5789.00	Mid	NB U-NII 3	FHSS	Ant 1	1	Back	0 mm	1.120	1.070	1.05	N/A	N/A
5850	5844.00	High	NB U-NII 3	FHSS	Ant 3	1	Back	0 mm	0.881	0.876	1.01	N/A	N/A
6500	6985.00	207	6 GHz WiFi/ IEEE 802.11ax 160 MHz Bandwidth	OFDM	Ant 4a	68.1	Back	0 mm	1.140	1.110	1.03	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				

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12.2 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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13 ADDITIONAL TESTING PER FCC GUIDANCE

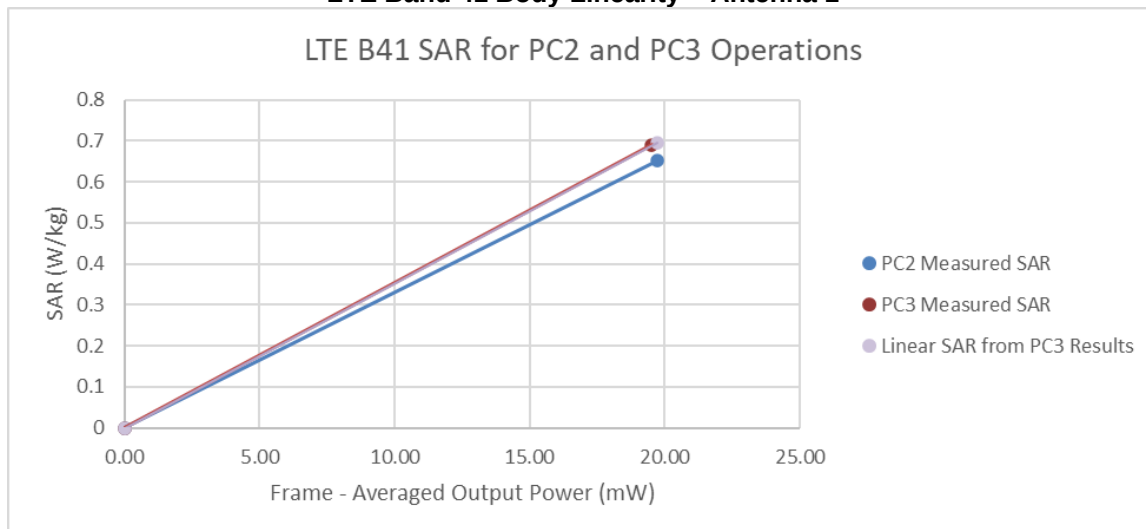
13.1 LTE Band 41 Power Class 2 and Power Class 3 Linearity

This device supports Power Class 2 and Power Class 3 operations for LTE Band 41. The highest available duty cycle for Power Class 2 operations is 43.3 % using UL-DL configuration 1. Per May 2017 TCB Workshop Notes based on the device behavior, all SAR tests were performed using Power Class 3. SAR with Power Class 2 at the highest power and available duty factor was additionally performed for the Power Class 3 configuration with the highest SAR for each exposure condition. The linearity between the Power Class 2 and Power Class 3 SAR results and the respective frame averaged powers was calculated to determine that the results were linear. When ULCA is active, the linearity between the Power Class 2 with ULCA active and Power Class 3 with ULCA active SAR results and the respective frame averaged powers was calculated to determine that the results were linear. Per May 2017 TCB Workshop, no additional SAR measurements were required since the linearity between power classes was < 10% and all reported SAR values were < 1.4 W/kg for 1g and < 3.5 W/kg for 10g.

Table 13-1
LTE Band 41 Body Linearity Data – Antenna 1

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	16.00	17.60
Measured Output Power (dBm)	14.89	16.58
Measured SAR (W/kg)	0.690	0.651
Measured Power (mW)	30.83	45.50
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	19.52	19.70
% deviation from expected linearity		-6.54%

Figure 13-1
LTE Band 41 Body Linearity – Antenna 1



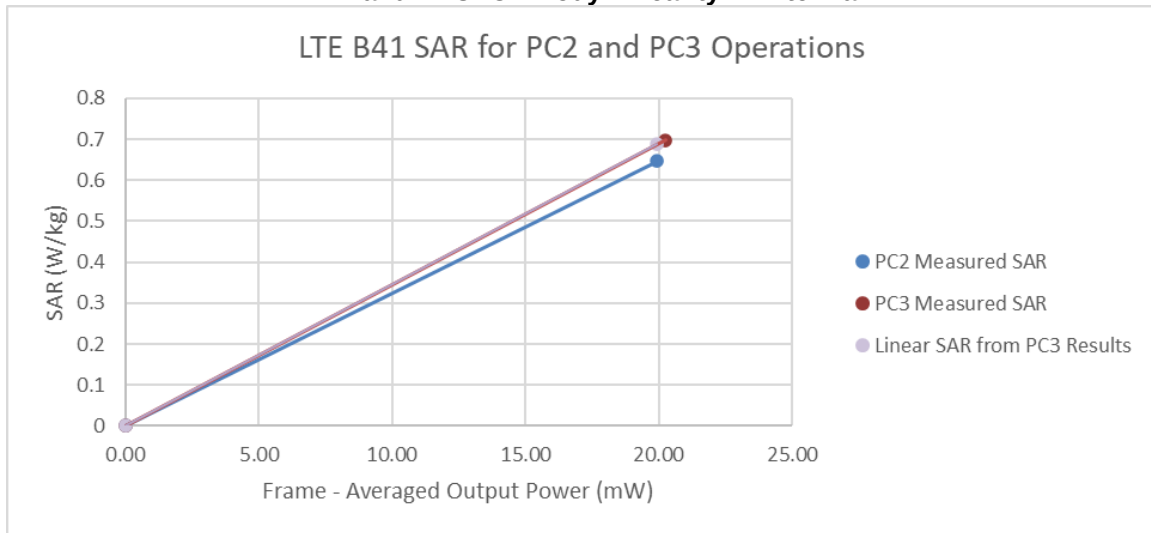
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Table 13-2
LTE Band 41 ULCA Body Linearity Data – Antenna 1

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	16.0	17.6
Measured Output Power (dBm)	15.05	16.63
Measured SAR (W/kg)	0.698	0.647
Measured Power (mW)	31.99	46.03
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	20.25	19.93
% deviation from expected linearity		-5.82%

Figure 13-2
LTE Band 41 ULCA Body Linearity – Antenna 1



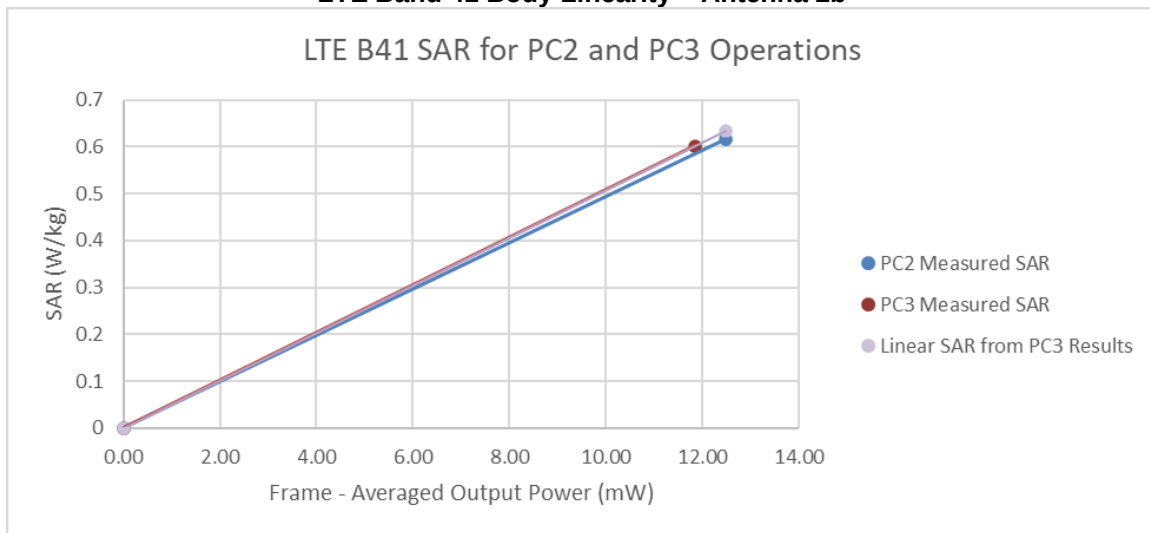
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Table 13-3
LTE Band 41 Body Linearity Data – Antenna 2b

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	14.00	15.60
Measured Output Power (dBm)	12.72	14.60
Measured SAR (W/kg)	0.602	0.617
Measured Power (mW)	18.71	28.84
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	11.84	12.49
% deviation from expected linearity		-2.81%

Figure 13-3
LTE Band 41 Body Linearity – Antenna 2b



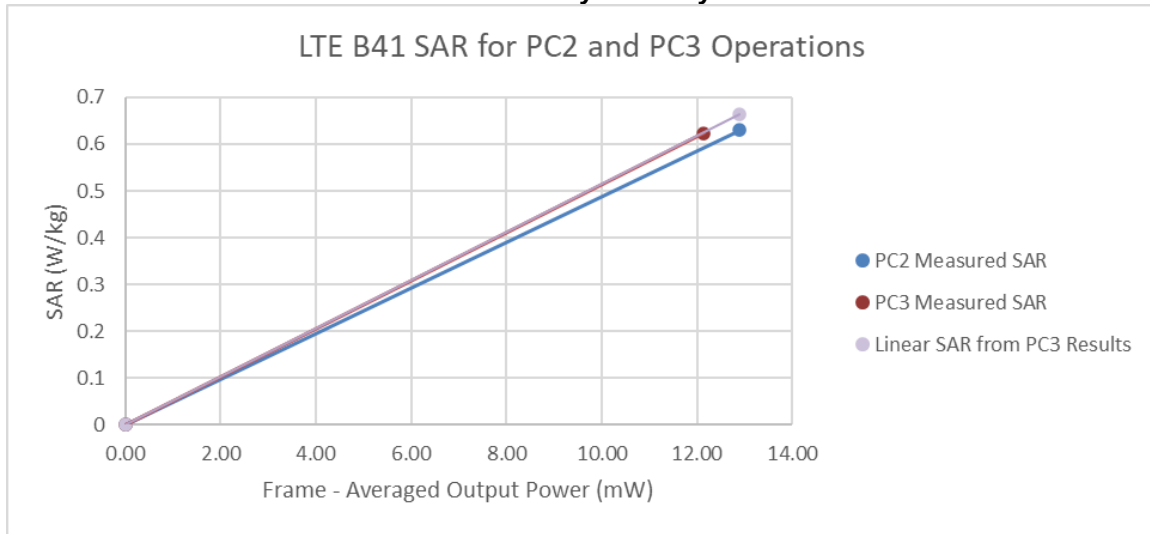
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Table 13-4
LTE Band 41 ULCA Body Linearity Data – Antenna 2b

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	14.0	15.6
Measured Output Power (dBm)	12.83	14.74
Measured SAR (W/kg)	0.624	0.630
Measured Power (mW)	19.19	29.79
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	12.15	12.90
% deviation from expected linearity		-4.92%

Figure 13-4
LTE Band 41 ULCA Body Linearity – Antenna 2b



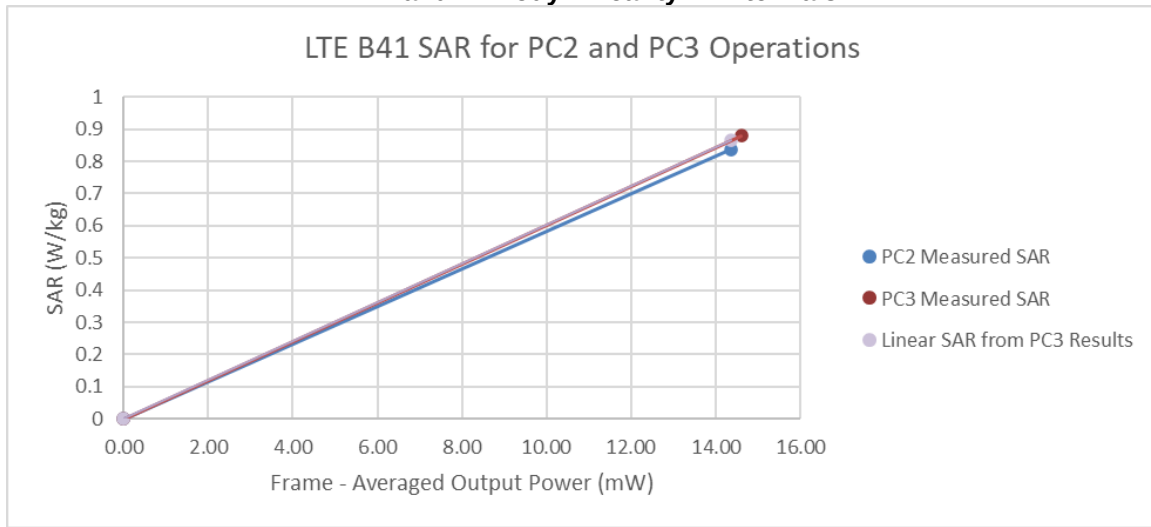
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Table 13-5
LTE Band 41 Body Linearity Data – Antenna 3

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	13.90	15.50
Measured Output Power (dBm)	13.63	15.21
Measured SAR (W/kg)	0.880	0.838
Measured Power (mW)	23.07	33.19
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	14.60	14.37
% deviation from expected linearity		-3.24%

Figure 13-5
LTE Band 41 Body Linearity – Antenna 3



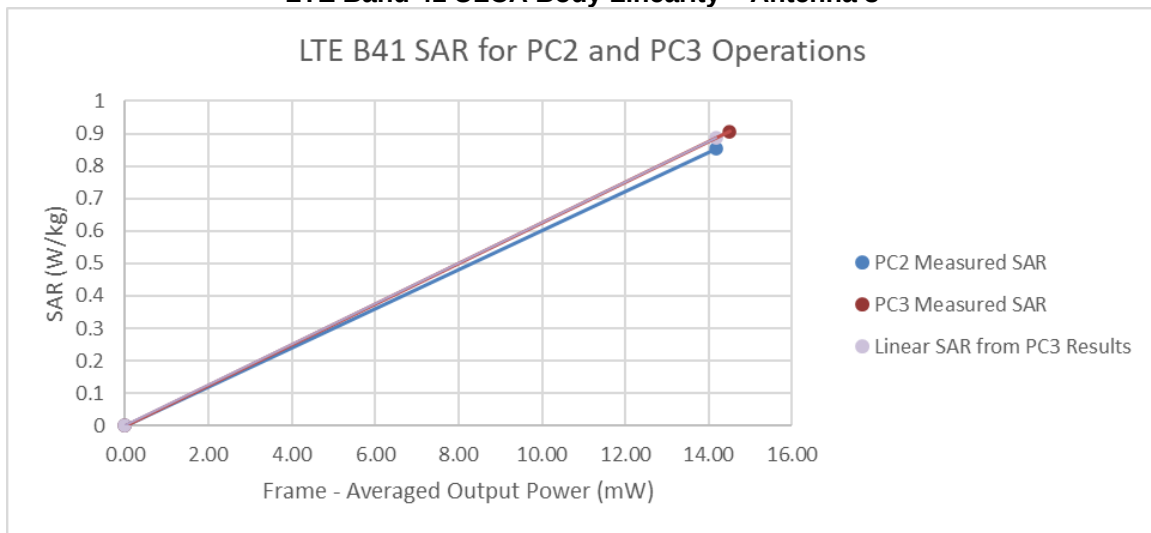
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Table 13-6
LTE Band 41 ULCA Body Linearity Data – Antenna 3

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	13.9	15.5
Measured Output Power (dBm)	13.60	15.15
Measured SAR (W/kg)	0.906	0.853
Measured Power (mW)	22.91	32.73
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	14.50	14.17
% deviation from expected linearity		-3.68%

Figure 13-6
LTE Band 41 ULCA Body Linearity – Antenna 3



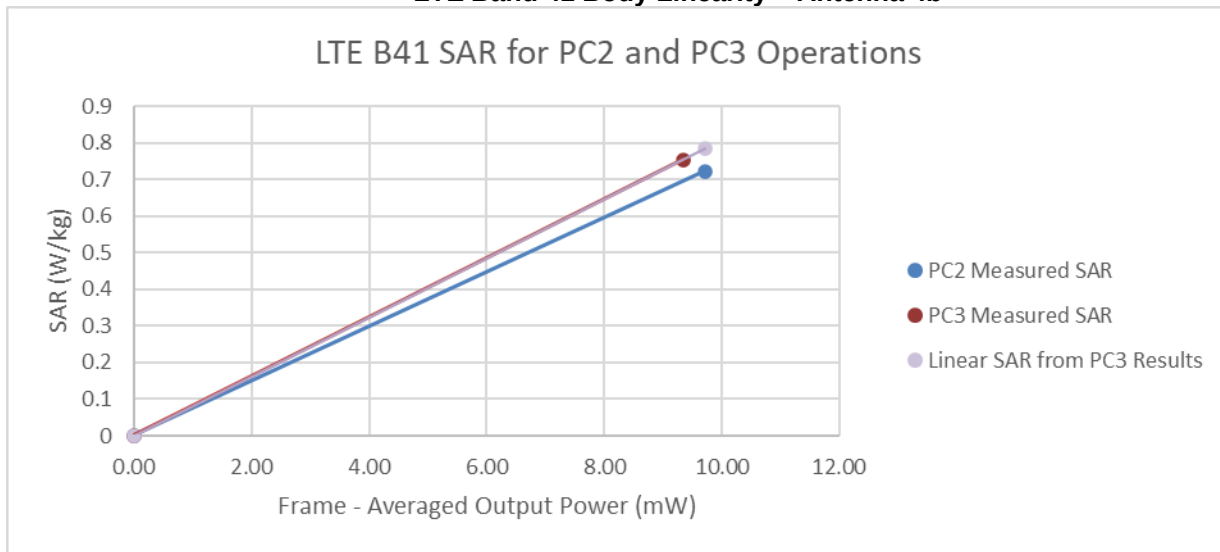
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Table 13-7
LTE Band 41 Body Linearity Data – Antenna 4b

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	12.9	14.5
Measured Output Power (dBm)	11.69	13.51
Measured SAR (W/kg)	0.755	0.723
Measured Power (mW)	14.76	22.44
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	9.34	9.72
% deviation from expected linearity		-7.93%

Figure 13-7
LTE Band 41 Body Linearity – Antenna 4b



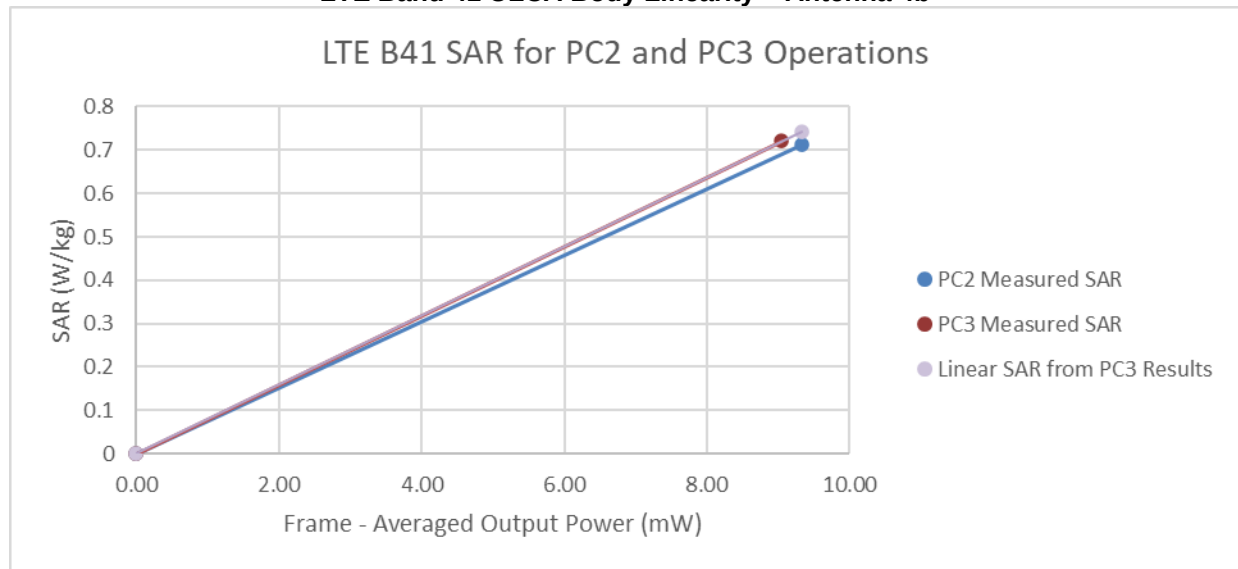
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Table 13-8
LTE Band 41 ULCA Body Linearity Data – Antenna 4b

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	12.9	14.5
Measured Output Power (dBm)	11.55	13.33
Measured SAR (W/kg)	0.721	0.712
Measured Power (mW)	14.29	21.53
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	9.04	9.32
% deviation from expected linearity		-4.18%

Figure 13-8
LTE Band 41 ULCA Body Linearity – Antenna 4b



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14 EQUIPMENT LIST

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
Agilent	E4404B	Spectrum Analyzer	N/A	N/A	N/A	MY40113242
Agilent	E4438C	ESG Vector Signal Generator	11/14/2023	Annual	11/14/2024	MY40093852
Agilent	E4438C	ESG Vector Signal Generator	11/15/2023	Annual	11/15/2024	MY40092078
Agilent	N5182A	MMG Vector Signal Generator	10/12/2023	Annual	10/12/2024	MY47400015
Agilent	N5182A	MMG Vector Signal Generator	7/4/2023	Annual	7/4/2024	MY40080966
Agilent	8735ES	S-Parameter Vector Network Analyzer	6/2/2023	Annual	6/2/2024	MY40003841
Agilent	E5515C	Wireless Communications Test Set	CBT	N/A	CBT	US41440256
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	ML2496A	Power Meter	4/4/2023	Annual	4/4/2024	1846005
Anritsu	MA2411B	Pulse Power Sensor	8/22/2023	Annual	8/22/2024	1726302
Anritsu	MA2411B	Pulse Power Sensor	11/8/2023	Annual	11/8/2024	1027293
Anritsu	MT8821C	Radio Communication Analyzer MT8821C	12/15/2023	Annual	12/15/2024	6200901190
Anritsu	MT8821C	Radio Communication Analyzer MT8821C	7/7/2023	Annual	7/7/2024	6262044715
Anritsu	MT8821C	Radio Communication Analyzer MT8821C	7/5/2023	Annual	7/5/2024	6262150000
Anritsu	MT8821C	Radio Communication Analyzer MT8821C	3/31/2023	Annual	3/31/2024	6201381794
Anritsu	MT8000A	Radio Communication Test Station	3/21/2023	Annual	3/21/2024	6261987983
Anritsu	MT8000A	Radio Communication Test Station	4/6/2023	Annual	4/6/2024	6272337439
Anritsu	MT8000A	Radio Communication Test Station	3/1/2023	Annual	3/1/2024	6272337419
Anritsu	MA24106A	USB Power Sensor	6/15/2023	Annual	6/15/2024	1827330
Anritsu	MA24106A	USB Power Sensor	12/4/2023	Annual	12/4/2024	1520501
Control Company	4052	Long Stem Thermometer	10/16/2023	Biennial	10/16/2025	230701247
Control Company	4052	Long Stem Thermometer	10/16/2023	Biennial	10/16/2025	230702935
Control Company	4052	Long Stem Thermometer	2/27/2023	Biennial	2/27/2025	230111049
Control Company	4040	Therm./ Clock/ Humidity Monitor	5/13/2021	Biennial	5/13/2023	210403099
Mitsutoyo	S00-156-30	CD-6" ASK Ginch Digital Caliper	3/16/2022	Triennial	2/16/2025	A20138413
Keysight Technologies	N6705B	DC Power Analyzer	5/5/2021	Triennial	5/5/2024	MY53004059
Keysight Technologies	N9000A	MNA Signal Analyzer	4/6/2023	Annual	4/6/2024	MY48010233
Agilent	N9000A	MNA Signal Analyzer	4/26/2023	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	31654
Mini-Circuits	BW-N2005+	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	ZUDC-10-83-S+	Directional Coupler	CBT	N/A	CBT	2050
Narda	4722-3	Attenuator (dBd)	CBT	N/A	CBT	8606
Narda	BW-53W2	Attenuator (dBd)	CBT	N/A	CBT	120
Seokonk	NC-100	Torque Wrench	CBT	N/A	CBT	22217
Seokonk	NC-100	Torque Wrench	CBT	N/A	CBT	1262
Rohde & Schwarz	CWMS50	Wideband Radio Communication Tester	7/4/2023	Annual	7/4/2024	166868
Rohde & Schwarz	CWMS50	Wideband Radio Communication Tester	7/17/2023	Annual	7/17/2024	171098
Rohde & Schwarz	CWMS50	Wideband Radio Communication Tester	10/16/2023	Annual	10/16/2024	170999
SPEAG	DAK-3.5	Dielectric Assessment Kit	11/13/2023	Annual	11/13/2024	1277
SPEAG	DAK5-3.5	Portable Dielectric Assessment Kit	8/4/2023	Annual	8/4/2024	1041
SPEAG	MAIA	Modulation and Audio Interference Analyzer	N/A	N/A	N/A	1390
SPEAG	DAK-12	Dielectric Assessment Kit (MHz - 3GHz)	3/13/2023	Annual	3/13/2024	1102
SPEAG	CLA-13	Confined Loop Antenna	11/9/2023	Annual	11/9/2024	1004
SPEAG	D1750V2	1750 MHz SAR Dipole	5/10/2022	Biennial	5/10/2024	1083
SPEAG	D1750V2	1750 MHz SAR Dipole	11/17/2022	Biennial	8/17/2024	1055
SPEAG	D1900V2	1900 MHz SAR Dipole	5/14/2022	Biennial	5/14/2024	54800
SPEAG	D2300V2	2300 MHz SAR Dipole	3/15/2021	Triennial	3/15/2024	1038
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	D2450V2	2450 MHz SAR Dipole	11/15/2022	Biennial	11/15/2024	661
SPEAG	D2600V2	2600 MHz SAR Dipole	5/11/2022	Biennial	5/11/2024	1042
SPEAG	D2600V2	2600 MHz SAR Dipole	11/15/2022	Biennial	11/15/2024	1068
SPEAG	D3500V2	3500 MHz SAR Dipole	6/9/2021	Triennial	6/9/2024	1126
SPEAG	D3500V2	3500 MHz SAR Dipole	8/17/2022	Biennial	8/17/2024	1055
SPEAG	D3700V2	3700 MHz SAR Dipole	10/21/2022	Biennial	10/21/2024	1092
SPEAG	D3700V2	3700 MHz SAR Dipole	6/9/2021	Triennial	6/9/2024	1097
SPEAG	D3900V2	3900 MHz SAR Dipole	6/10/2021	Triennial	6/10/2024	1073
SPEAG	D5GHV2	5 GHz SAR Dipole	3/22/2022	Biennial	3/22/2024	1123
SPEAG	DS-5GHV2	4.5 GHz SAR Dipole	10/11/2023	Annual	10/11/2024	1019
SPEAG	D750V3	750 MHz SAR Dipole	5/16/2022	Annual	5/16/2024	1057
SPEAG	D750V3	750 MHz SAR Dipole	9/13/2023	Annual	9/13/2024	1097
SPEAG	D835V2	835 MHz SAR Dipole	5/16/2022	Biennial	5/16/2024	44040
SPEAG	D835V2	835 MHz SAR Dipole	11/18/2022	Biennial	11/18/2024	440108
SPEAG	D835V2	835 MHz SAR Dipole	5/11/2023	Annual	5/11/2025	440100
SPEAG	DAE4	Daisy Data Acquisition Electronics	3/13/2023	Annual	3/13/2024	1408
SPEAG	DAE4	Daisy Data Acquisition Electronics	9/12/2023	Annual	9/12/2024	1684
SPEAG	DAE4	Daisy Data Acquisition Electronics	5/11/2023	Annual	5/11/2024	701
SPEAG	DAE4	Daisy Data Acquisition Electronics	4/14/2023	Annual	4/14/2024	501
SPEAG	DAE4	Daisy Data Acquisition Electronics	10/18/2023	Annual	10/18/2024	1237
SPEAG	DAE4	Daisy Data Acquisition Electronics	10/18/2023	Annual	10/18/2024	1333
SPEAG	DAE4	Daisy Data Acquisition Electronics	9/8/2023	Annual	9/8/2024	1646
SPEAG	DAE4	Daisy Data Acquisition Electronics	3/15/2023	Annual	3/15/2024	404
SPEAG	DAE4	Daisy Data Acquisition Electronics	11/14/2023	Annual	11/14/2024	1403
SPEAG	DAE4	Daisy Data Acquisition Electronics	3/15/2023	Annual	3/15/2024	534
SPEAG	DAE4	Daisy Data Acquisition Electronics	9/12/2023	Annual	9/12/2024	1681
SPEAG	DAE4	Daisy Data Acquisition Electronics	4/14/2023	Annual	4/14/2024	1402
SPEAG	DAE4	Daisy Data Acquisition Electronics	4/14/2023	Annual	4/14/2024	1582
SPEAG	EX30V4	SAR Probe	4/18/2023	Annual	4/18/2024	7530
SPEAG	EX30V4	SAR Probe	4/14/2023	Annual	4/14/2024	7546
SPEAG	EX30V4	SAR Probe	8/10/2023	Annual	8/10/2024	7668
SPEAG	EX30V4	SAR Probe	10/2/2023	Annual	10/2/2024	3949
SPEAG	EX30V4	SAR Probe	5/8/2023	Annual	5/8/2024	7416
SPEAG	EX30V4	SAR Probe	10/16/2023	Annual	10/16/2024	7420
SPEAG	EX30V4	SAR Probe	3/16/2023	Annual	3/16/2024	7421
SPEAG	EX30V4	SAR Probe	10/16/2023	Annual	10/16/2024	3746
SPEAG	EX30V4	SAR Probe	11/9/2023	Annual	11/9/2024	7639
SPEAG	EX30V4	SAR Probe	4/13/2023	Annual	4/13/2024	7357
SPEAG	EX30V4	SAR Probe	3/16/2023	Annual	3/16/2024	7638
SPEAG	EX30V4	SAR Probe	3/16/2023	Annual	3/16/2024	7360
SPEAG	EX30V4	SAR Probe	1/19/2023	Annual	1/19/2024	7782

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

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15 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
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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16 CONCLUSION

16.1 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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