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SAR EVALUATION REPORT

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

Date of Testing:
06/22/2022 – 09/02/2022
Test Site/Location:
Element Washington DC LLC,
Morgan Hill, CA, USA
Document Serial No.:
1C2205090025-26.BCG (Rev 2)

FCC ID:	**BCGA2435**
APPLICANT:	**APPLE, INC.**

DUT Type:	Tablet Device
Application Type:	Certification
FCC Rule Part(s):	CFR §2.1093
Models:	A2435

Equipment Class	Band & Mode	Tx Frequency	SAR 1g Body (W/kg)
PCB	UMTS 850	826.40 - 846.60 MHz	0.96
PCB	UMTS 1750	1712.4 - 1752.6 MHz	0.87
PCB	UMTS 1900	1852.4 - 1907.6 MHz	0.91
PCB	LTE Band 71	665.5 - 695.5 MHz	1.00
PCB	LTE Band 12	699.7 - 715.3 MHz	0.90
PCB	LTE Band 17	706.5 - 713.5 MHz	N/A
PCB	LTE Band 13	779.5 - 784.5 MHz	0.90
PCB	LTE Band 14	790.5 - 795.5 MHz	0.91
PCB	LTE Band 26 (Cell)	814.7 - 846.3 MHz	0.91
PCB	LTE Band 5 (Cell)	824.7 - 848.3 MHz	0.91
PCB	LTE Band 66 (AWS)	1710.7 - 1779.3 MHz	0.85
PCB	LTE Band 4 (AWS)	1710.7 - 1754.3 MHz	N/A
PCB	LTE Band 25 (PCS)	1850.7 - 1914.3 MHz	0.91
PCB	LTE Band 2 (PCS)	1850.7 - 1909.3 MHz	N/A
PCB	LTE Band 30	2307.5 - 2312.5 MHz	1.00
PCB	LTE Band 7	2502.5 - 2567.5 MHz	1.00
PCB	LTE Band 41	2498.5 - 2687.5 MHz	0.98
CBE	LTE Band 48	3552.5 - 3697.5 MHz	0.95
PCB	NR Band n71	665.5 - 695.5 MHz	0.99
PCB	NR Band n12	703.5 - 713.5 MHz	0.94
PCB	NR Band n14	790.5 - 795.5 MHz	0.93
PCB	NR Band n26 (Cell)	816.5 - 846.5 MHz	0.99
PCB	NR Band n5 (Cell)	826.5 - 846.5 MHz	0.94
PCB	NR Band n70	1697.5 - 1707.5 MHz	0.88
PCB	NR Band n66 (AWS)	1712.5 - 1777.5 MHz	0.99
PCB	NR Band n25 (PCS)	1852.5 - 1912.5 MHz	0.96
PCB	NR Band n2 (PCS)	1852.5 - 1907.5 MHz	N/A
PCB	NR Band n30	2307.5 - 2312.5 MHz	1.00
PCB	NR Band n7	2502.5 - 2567.5 MHz	0.98
PCB	NR Band n41	2506.02 - 2679.99 MHz	0.94
PCB	NR Band n77 DoD	3455.01 - 3544.98 MHz	0.91
PCB	NR Band n77 C	3705 - 3975 MHz	0.95
DTS	2.4 GHz WLAN	2412 - 2472 MHz	1.11
NII	U-NII-1	5180 - 5240 MHz	1.04
NII	U-NII-2A	5260 - 5320 MHz	1.10
NII	U-NII-2C	5500 - 5720 MHz	1.15
NII	U-NII-3	5745 - 5825 MHz	1.04
DSS/DTS	Bluetooth	2402 - 2480 MHz	1.09
NII	NII UNII-1	5152 - 5245 MHz	1.10
NII	NII UNII-3	5732 - 5864 MHz	1.18
Simultaneous SAR per KDB 690783 D01v01r03:			1.59

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

This wireless portable device has been shown to be capable of compliance for localized specific absorption rate (SAR) for uncontrolled environment/general population exposure limits specified in ANSI/IEEE C95.1-1992 and has been tested in accordance with the measurement procedures specified in Section 1.8 of this report; for North American frequency bands only.

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

RJ Ortanez
Executive Vice President

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

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1 DEVICE UNDER TEST

1.1 Device Overview

Band & Mode	Operating Modes	Tx Frequency
UMTS 850	Data	826.40 - 846.60 MHz
UMTS 1750	Data	1712.4 - 1752.6 MHz
UMTS 1900	Data	1852.4 - 1907.6 MHz
LTE Band 71	Voice/Data	665.5 - 695.5 MHz
LTE Band 12	Voice/Data	699.7 - 715.3 MHz
LTE Band 17	Voice/Data	706.5 - 713.5 MHz
LTE Band 13	Voice/Data	779.5 - 784.5 MHz
LTE Band 14	Voice/Data	790.5 - 795.5 MHz
LTE Band 26 (Cell)	Voice/Data	814.7 - 848.3 MHz
LTE Band 5 (Cell)	Voice/Data	824.7 - 848.3 MHz
LTE Band 66 (AWS)	Voice/Data	1710.7 - 1779.3 MHz
LTE Band 4 (AWS)	Voice/Data	1710.7 - 1754.3 MHz
LTE Band 25 (PCS)	Voice/Data	1850.7 - 1914.3 MHz
LTE Band 2 (PCS)	Voice/Data	1850.7 - 1909.3 MHz
LTE Band 30	Voice/Data	2307.5 - 2312.5 MHz
LTE Band 7	Voice/Data	2502.5 - 2567.5 MHz
LTE Band 41	Voice/Data	2498.5 - 2687.5 MHz
LTE Band 48	Voice/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 n5 (Cell)	Data	826.5 - 846.5 MHz
NR Band n26 (Cell)	Data	816.5 - 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 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
U-NII-1	Voice/Data	5180 - 5240 MHz
U-NII-2A	Voice/Data	5260 - 5320 MHz
U-NII-2C	Voice/Data	5500 - 5720 MHz
U-NII-3	Voice/Data	5745 - 5825 MHz
U-NII-5	Voice/Data	5955 - 6415 MHz
U-NII-6	Voice/Data	6435 - 6515 MHz
U-NII-7	Voice/Data	6535 - 6875 MHz
U-NII-8	Voice/Data	6895 - 7115 MHz
Bluetooth	Data	2402 - 2480 MHz
NB UNII-1	Data	5162 - 5245 MHz
NB UNII-3	Data	5733 - 5844 MHz
NR Band n258	Data	24250 - 24450 MHz 24750-25250 MHz
NR Band n260	Data	37000 - 40000 MHz
NR Band n261	Data	27500 - 28350 MHz

1.2 Time-Averaging Algorithm for RF Exposure Compliance

This device is enabled with the Qualcomm® Smart Transmit feature. This feature performs 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).

Exposure Scenario:	Ant 1 Body	Ant 1 Maximum Tune-up Output Power*	Ant 2a/2b Body	Ant 2a/2b Maximum Tune-up Output Power*	Ant 3 Body	Ant 3 Maximum Tune-up Output Power*	Ant 4b Body	Ant 4b Maximum Tune-up Output Power*	Manufacturer's Smart Transmit Uncertainty (dB)	Pmax target Tolerance (dB)	Plimit target and UHB Pmax Tolerance (dB)
Averaging Volume:	1g		1g		1g		1g				
Spacing:	0 mm		0 mm		0 mm		0 mm				
DSI:	1		1		1		1				
Technology/Band	**Plimit corresponding to 0.8 W/kg**	Pmax	**Plimit corresponding to 0.8 W/kg**	Pmax	**Plimit corresponding to 0.8 W/kg**	Pmax	**Plimit corresponding to 0.8 W/kg**	Pmax			
UMTS 850	19.00	23.20	N/A	N/A	18.50	25.00	N/A	N/A			
UMTS 1750	14.70	22.00	14.00	22.00	15.00	24.50	12.30	25.00			
UMTS 1900	14.50	22.00	13.20	22.00	15.90	24.50	12.20	25.00			
LTE Band 71	20.00	23.20	N/A	N/A	20.50	25.00	N/A	N/A			
LTE Band 12	19.50	23.20	N/A	N/A	18.80	25.00	N/A	N/A			
LTE Band 17	19.50	23.20	N/A	N/A	18.80	25.00	N/A	N/A			
LTE Band 13	20.00	23.20	N/A	N/A	19.50	25.00	N/A	N/A			
LTE Band 14	20.00	23.20	N/A	N/A	19.50	25.00	N/A	N/A			
LTE Band 26 (Cell)	19.00	23.20	N/A	N/A	18.50	25.00	N/A	N/A			
LTE Band 5 (Cell)	19.00	23.20	N/A	N/A	18.50	25.00	N/A	N/A			
LTE Band 5 ULCA (Cell)	19.00	23.20	N/A	N/A	18.50	25.00	N/A	N/A			
LTE Band 66 (AWS)	14.70	25.00	14.00	24.50	15.00	23.50	12.30	24.00			
LTE Band 4 (AWS)	14.70	25.00	14.00	24.50	15.00	24.50	12.30	25.00			
LTE Band 25 (PCS)	14.50	22.00	13.20	22.00	15.90	24.50	12.20	25.00			
LTE Band 2 (PCS)	14.50	22.00	13.20	22.00	15.90	24.50	12.20	25.00			
LTE Band 30	14.50	21.50	12.90	21.50	17.50	24.50	12.10	22.60			
LTE Band 7	12.80	21.50	12.20	21.50	14.70	24.50	12.00	25.00			
LTE Band 7 ULCA	12.80	21.50	12.20	21.50	14.70	24.50	12.00	25.00			
LTE Band 41 PC3	12.8	23.0	11.2	23.0	14.2	23.0	11.8	23.0			
LTE Band 41 ULCA PC3	12.8	23.0	11.2	23.0	14.2	23.0	11.8	23.0	+/- 1.0	+0.7 /- 1.0	+/- 1.0
LTE Band 41 PC2	12.8	24.4	11.2	23.9	14.2	22.9	11.8	23.4			
LTE Band 41 ULCA PC2	12.8	24.4	11.2	23.9	14.2	22.9	11.8	23.4			
LTE Band 48	11.0	20.2	10.5	17.2	11.2	19.0	10.3	20.6			
LTE Band 48 ULCA	11.0	20.2	10.5	17.2	11.2	19.0	10.3	20.6			
NR Band n71	20.00	23.20	N/A	N/A	20.50	25.00	N/A	N/A			
NR Band n12	19.50	23.20	N/A	N/A	18.80	25.00	N/A	N/A			
NR Band n14	20.00	23.20	N/A	N/A	19.50	25.00	N/A	N/A			
NR Band n26 (Cell)	19.00	23.20	N/A	N/A	18.50	25.00	N/A	N/A			
NR Band n5 (Cell)	19.00	23.20	N/A	N/A	18.50	25.00	N/A	N/A			
NR Band n70	14.70	25.00	14.00	24.50	15.00	24.50	12.30	25.00			
NR Band n66 (AWS)	14.70	25.00	14.00	24.50	15.00	23.50	12.30	24.00			
NR Band n25 (PCS)	14.50	22.00	13.20	22.00	15.90	24.50	12.20	25.00			
NR Band n2 (PCS)	14.50	22.00	13.20	22.00	15.90	24.50	12.20	25.00			
NR Band n30	14.50	21.50	12.90	21.50	17.50	24.50	12.10	22.60			
NR Band n7	12.80	21.50	12.20	21.50	14.70	24.50	12.00	25.00			
NR Band n41 PC3	12.80	25.00	11.20	25.00	14.20	25.00	11.80	25.00			
NR Band n41 PC2	12.80	28.00	11.20	27.50	14.20	26.50	11.80	27.00			
NR Band n77 PC3	11.50	22.50	9.70	22.50	10.60	24.70	9.90	24.70			
NR Band n77 PC2	11.50	22.50	9.70	22.50	10.60	26.50	9.90	26.50			

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 device uncertainty for sub-6GHz WWAN is +1.0/-1.0 dB for this EUT.

*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 tolerance and for UHB +/-1.0 dB 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 3G/4G/5G WWAN technology, band, and DSI = minimum of "P_{limit} EFS" and "Maximum tune up output power P_{max}" +1.0/-1.0 dB device uncertainty. SAR values in this report were scaled to this maximum time-averaged output power to determine compliance per KDB Publication 447498 D01v06.

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.

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 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. Appendix J includes verification data for this time-averaged SAR mechanism.

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 D01v06.

1.4.1 3G/4G/5G Output Power for Portable Use Conditions

Table 1-1
UMTS B5 (850 MHz)

Mode/Band	Antenna		Modulated Average Output Power (in dBm)			
			3GPP WCDMA Rel 99	3GPP HSDPA Rel 5	3GPP HSUPA Rel 6	3GPP DC-HSDPA Rel 8
UMTS Band 5 (850 MHz)	Ant 1	Max allowed power	20.00	20.00	20.00	20.00
		Nominal	19.00	19.00	19.00	19.00
	Ant 3	Max allowed power	19.50	19.50	19.50	19.50
		Nominal	18.50	18.50	18.50	18.50

Table 1-2
UMTS B4 (1750 MHz)

Mode/Band	Antenna		Modulated Average Output Power (in dBm)			
			3GPP WCDMA Rel 99	3GPP HSDPA Rel 5	3GPP HSUPA Rel 6	3GPP DC-HSDPA Rel 8
UMTS Band 4 (1750 MHz)	Ant 1	Max allowed power	15.70	15.70	15.70	15.70
		Nominal	14.70	14.70	14.70	14.70
	Ant 2b	Max allowed power	15.00	15.00	15.00	15.00
		Nominal	14.00	14.00	14.00	14.00
	Ant 3	Max allowed power	16.00	16.00	16.00	16.00
		Nominal	15.00	15.00	15.00	15.00
	Ant 4b	Max allowed power	13.30	13.30	13.30	13.30
		Nominal	12.30	12.30	12.30	12.30

Table 1-3
UMTS B2 (1900 MHz)

Mode/Band	Antenna		Modulated Average Output Power (in dBm)			
			3GPP WCDMA Rel 99	3GPP HSDPA Rel 5	3GPP HSUPA Rel 6	3GPP DC-HSDPA Rel 8
UMTS Band 2 (1900 MHz)	Ant 1	Max allowed power	15.50	15.50	15.50	15.50
		Nominal	14.50	14.50	14.50	14.50
	Ant 2b	Max allowed power	14.20	14.20	14.20	14.20
		Nominal	13.20	13.20	13.20	13.20
	Ant 3	Max allowed power	16.90	16.90	16.90	16.90
		Nominal	15.90	15.90	15.90	15.90
	Ant 4b	Max allowed power	13.20	13.20	13.20	13.20
		Nominal	12.20	12.20	12.20	12.20

Table 1-4
LTE Bands

Mode / Band		Modulated Average Output Power (in dBm)				
		Ant 1	Ant 2a	Ant 2b	Ant 3	Ant 4b
LTE FDD Band 71	Max allowed power	21.00			21.50	
	Nominal	20.00			20.50	
LTE FDD Band 12	Max allowed power	20.50			19.80	
	Nominal	19.50			18.80	
LTE FDD Band 17	Max allowed power	20.50			19.80	
	Nominal	19.50			18.80	
LTE FDD Band 13	Max allowed power	21.00			20.50	
	Nominal	20.00			19.50	
LTE FDD Band 14	Max allowed power	21.00			20.50	
	Nominal	20.00			19.50	
LTE FDD Band 26	Max allowed power	20.00			19.50	
	Nominal	19.00			18.50	
LTE FDD Band 5	Max allowed power	20.00			19.50	
	Nominal	19.00			18.50	
LTE FDD Band 5 Intra-band ULCA	Max allowed power	20.00			19.50	
	Nominal	19.00			18.50	
LTE FDD Band 4	Max allowed power	15.70		15.00	16.00	13.30
	Nominal	14.70		14.00	15.00	12.30
LTE FDD Band 66	Max allowed power	15.70		15.00	16.00	13.30
	Nominal	14.70		14.00	15.00	12.30
LTE FDD Band 2	Max allowed power	15.50		14.20	16.90	13.20
	Nominal	14.50		13.20	15.90	12.20
LTE FDD Band 25	Max allowed power	15.50		14.20	16.90	13.20
	Nominal	14.50		13.20	15.90	12.20
LTE FDD Band 30	Max allowed power	15.50		13.90	18.50	13.10
	Nominal	14.50		12.90	17.50	12.10
LTE FDD Band 7	Max allowed power	13.80		13.20	15.70	13.00
	Nominal	12.80		12.20	14.70	12.00
LTE FDD Band 7 Intra-band ULCA	Max allowed power	13.80		13.20	15.70	13.00
	Nominal	12.80		12.20	14.70	12.00
LTE TDD Band 41 (PC3)	Max allowed power	15.80		14.20	17.20	14.80
	Nominal	14.80		13.20	16.20	13.80
LTE TDD Band 41 (PC3) Intra-band ULCA	Max allowed power	15.80		14.20	17.20	14.80
	Nominal	14.80		13.20	16.20	13.80
LTE TDD Band 41 (PC2)	Max allowed power	17.40		15.80	18.80	16.40
	Nominal	16.40		14.80	17.80	15.40
LTE TDD Band 41 (PC2) Intra-band ULCA	Max allowed power	17.40		15.80	18.80	16.40
	Nominal	16.40		14.80	17.80	15.40
LTE TDD Band 48	Max allowed power	14.00	13.50		14.20	13.30
	Nominal	13.00	12.50		13.20	12.30
LTE TDD Band 48 Intra-band ULCA	Max allowed power	14.00	13.50		14.20	13.30
	Nominal	13.00	12.50		13.20	12.30

Note: For LTE TDD and NR TDD, the above powers listed are TDD burst average values.

Table 1-5
NR Bands

Mode / Band		Modulated Average Output Power (in dBm)				
		Ant 1	Ant 2a	Ant 2b	Ant 3	Ant 4b
NR FDD Band n71	Max allowed power	**21.00**			**21.50**	
	Nominal	**20.00**			**20.50**	
NR FDD Band n12	Max allowed power	**20.50**			**19.80**	
	Nominal	**19.50**			**18.80**	
NR FDD Band n14	Max allowed power	**21.00**			**20.50**	
	Nominal	**20.00**			**19.50**	
NR FDD Band n26	Max allowed power	**20.00**			**19.50**	
	Nominal	**19.00**			**18.50**	
NR FDD Band n5	Max allowed power	**20.00**			**19.50**	
	Nominal	**19.00**			**18.50**	
NR FDD Band n70	Max allowed power	**15.70**		**15.00**	**16.00**	**13.30**
	Nominal	**14.70**		**14.00**	**15.00**	**12.30**
NR FDD Band n66	Max allowed power	**15.70**		**15.00**	**16.00**	**13.30**
	Nominal	**14.70**		**14.00**	**15.00**	**12.30**
NR FDD Band n2	Max allowed power	**15.50**		**14.20**	**16.90**	**13.20**
	Nominal	**14.50**		**13.20**	**15.90**	**12.20**
NR FDD Band n25	Max allowed power	**15.50**		**14.20**	**16.90**	**13.20**
	Nominal	**14.50**		**13.20**	**15.90**	**12.20**
NR FDD Band n30	Max allowed power	**15.50**		**13.90**	**18.50**	**13.10**
	Nominal	**14.50**		**12.90**	**17.50**	**12.10**
NR FDD Band n7	Max allowed power	**13.80**		**13.20**	**15.70**	**13.00**
	Nominal	**12.80**		**12.20**	**14.70**	**12.00**
NR FDD Band n41 (PC3) **[Burst Averaged]**	Max allowed power	**13.80**		**12.20**	**15.20**	**12.80**
	Nominal	**12.80**		**11.20**	**14.20**	**11.80**
NR FDD Band n41 (PC2) **[Burst Averaged]**	Max allowed power	**13.80**		**12.20**	**15.20**	**12.80**
	Nominal	**12.80**		**11.20**	**14.20**	**11.80**
NR FDD Band n77 (PC3) **[Burst Averaged]**	Max allowed power	**12.50**	**10.70**		**11.60**	**10.90**
	Nominal	**11.50**	**9.70**		**10.60**	**9.90**
NR FDD Band n77 (PC2) **[Burst Averaged]**	Max allowed power	**12.50**	**10.70**		**11.60**	**10.90**
	Nominal	**11.50**	**9.70**		**10.60**	**9.90**

1.4.2 Maximum WLAN Time-Averaged Output Power

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

Mode	IEEE 802.11 (Maximum in dBm) - Antenna 4a Tolerance (+0/-3.00 dB)							
	Channel	SISO				MIMO		
		b	g	n	ax SU	g	n	ax SU
2.4 GHz WIFI 20 MHz Bandwidth	1	12.50	12.50	12.50	12.50	12.50	12.50	12.50
	2	12.50	12.50	12.50	12.50	12.50	12.50	12.50
	3	12.50	12.50	12.50	12.50	12.50	12.50	12.50
	4	12.50	12.50	12.50	12.50	12.50	12.50	12.50
	5	12.50	12.50	12.50	12.50	12.50	12.50	12.50
	6	12.50	12.50	12.50	12.50	12.50	12.50	12.50
	7	12.50	12.50	12.50	12.50	12.50	12.50	12.50
	8	12.50	12.50	12.50	12.50	12.50	12.50	12.50
	9	12.50	12.50	12.50	12.50	12.50	12.50	12.50
	10	12.50	12.50	12.50	12.50	12.50	12.50	12.50
	11	12.50	12.50	12.50	12.50	12.50	12.50	12.50
	12	12.50	12.50	12.50	12.50	12.50	12.50	12.50
	13	12.50	8.00	8.00	NS	8.00	8.00	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/-3.00 dB)							
	Channel	SISO				MIMO		
		b	g	n	ax SU	g	n	ax SU
2.4 GHz WIFI 20 MHz Bandwidth	1	13.00	13.00	13.00	13.00	13.00	13.00	13.00
	2	13.00	13.00	13.00	13.00	13.00	13.00	13.00
	3	13.00	13.00	13.00	13.00	13.00	13.00	13.00
	4	13.00	13.00	13.00	13.00	13.00	13.00	13.00
	5	13.00	13.00	13.00	13.00	13.00	13.00	13.00
	6	13.00	13.00	13.00	13.00	13.00	13.00	13.00
	7	13.00	13.00	13.00	13.00	13.00	13.00	13.00
	8	13.00	13.00	13.00	13.00	13.00	13.00	13.00
	9	13.00	13.00	13.00	13.00	13.00	13.00	13.00
	10	13.00	13.00	13.00	13.00	13.00	13.00	13.00
	11	13.00	13.00	13.00	13.00	13.00	13.00	13.00
	12	13.00	13.00	13.00	13.00	13.00	13.00	12.50
	13	13.00	8.00	8.00	NS	8.00	8.00	NS

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

Mode	Channel	IEEE 802.11 (Maximum in dBm) - Antenna 5b Tolerance (+0/-3.00 dB)						
		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	16.50	16.50	16.50	16.50	16.50	16.50	16.50
	40	16.50	16.50	16.50	16.50	16.50	16.50	16.50
	44	16.50	16.50	16.50	16.50	16.50	16.50	16.50
	48	16.50	16.50	16.50	16.50	16.50	16.50	16.50
	52	16.50	16.50	16.50	16.50	16.50	16.50	16.50
	56	16.50	16.50	16.50	16.50	16.50	16.50	16.50
	60	16.50	16.50	16.50	16.50	16.50	16.50	16.50
	64	16.50	16.50	16.50	16.50	16.50	16.50	16.50
	100	15.00	15.00	15.00	15.00	15.00	15.00	15.00
	104	15.00	15.00	15.00	15.00	15.00	15.00	15.00
	108	15.00	15.00	15.00	15.00	15.00	15.00	15.00
	112	15.00	15.00	15.00	15.00	15.00	15.00	15.00
	116	15.00	15.00	15.00	15.00	15.00	15.00	15.00
	120	15.00	15.00	15.00	15.00	15.00	15.00	15.00
	124	15.00	15.00	15.00	15.00	15.00	15.00	15.00
	128	15.00	15.00	15.00	15.00	15.00	15.00	15.00
	132	15.00	15.00	15.00	15.00	15.00	15.00	15.00
	136	15.00	15.00	15.00	15.00	15.00	15.00	15.00
	140	15.00	15.00	15.00	15.00	14.00	15.00	14.00
	144	15.00	15.00	15.00	15.00	15.00	15.00	15.00
	149	15.50	15.50	15.50	15.50	15.50	15.50	15.50
	153	15.50	15.50	15.50	15.50	15.50	15.50	15.50
	157	15.50	15.50	15.50	15.50	15.50	15.50	15.50
	161	15.50	15.50	15.50	15.50	15.50	15.50	15.50
	165	15.50	15.50	15.50	15.50	15.50	15.50	15.50
5 GHz WIFI 40 MHz Bandwidth	38	[redacted]	14.50	14.00	14.00	13.50	14.00	13.50
	46		16.50	16.50	16.50	16.50	16.50	16.50
	54		16.50	16.50	16.50	16.50	16.50	16.50
	62		16.00	15.00	16.00	14.50	16.00	14.50
	102		14.50	14.00	14.50	13.50	14.50	13.50
	110		15.00	15.00	15.00	15.00	15.00	15.00
	118		15.00	15.00	15.00	15.00	15.00	15.00
	126		15.00	15.00	15.00	15.00	15.00	15.00
	134		15.00	15.00	15.00	15.00	15.00	15.00
	142		15.00	15.00	15.00	15.00	15.00	15.00
	151		15.50	15.50	15.50	15.50	15.50	15.50
	159		15.50	15.50	15.50	15.50	15.50	15.50
5 GHz WIFI 80 MHz Bandwidth	42		13.75	13.00	13.50	12.50	13.50	12.50
	58		15.50	14.75	14.50	14.50	14.50	14.50
	106		14.50	13.50	14.50	13.25	14.50	13.25
	122		15.00	15.00	15.00	15.00	15.00	15.00
	138		15.00	15.00	15.00	15.00	15.00	15.00
	155		15.50	15.50	15.50	15.50	15.50	15.50
5GHz WIFI 160 Mhz Bandwidth	50		9.50	9.00	9.00	8.50	9.00	8.50
	114		9.50	9.50	9.00	9.00	9.00	9.00

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

Mode	Channel	IEEE 802.11 (Maximum in dBm) - Antenna 4a Tolerance (+0/-3.00 dB)						
		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	9.25	9.25	9.25	9.25	9.25	9.25	9.25
	40	9.25	9.25	9.25	9.25	9.25	9.25	9.25
	44	9.25	9.25	9.25	9.25	9.25	9.25	9.25
	48	9.25	9.25	9.25	9.25	9.25	9.25	9.25
	52	8.50	8.50	8.50	8.50	8.50	8.50	8.50
	56	8.50	8.50	8.50	8.50	8.50	8.50	8.50
	60	8.50	8.50	8.50	8.50	8.50	8.50	8.50
	64	8.50	8.50	8.50	8.50	8.50	8.50	8.50
	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	9.00	9.00	9.00	9.00	9.00	9.00	9.00
	153	9.00	9.00	9.00	9.00	9.00	9.00	9.00
	157	9.00	9.00	9.00	9.00	9.00	9.00	9.00
	161	9.00	9.00	9.00	9.00	9.00	9.00	9.00
	165	9.00	9.00	9.00	9.00	9.00	9.00	9.00
5 GHz WIFI 40 MHz Bandwidth	38	[redacted]	9.25	9.25	9.25	9.25	9.25	9.25
	46		9.25	9.25	9.25	9.25	9.25	9.25
	54		8.50	8.50	8.50	8.50	8.50	8.50
	62		8.50	8.50	8.50	8.50	8.50	8.50
	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
	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		9.00	9.00	9.00	9.00	9.00	9.00
	159		9.00	9.00	9.00	9.00	9.00	9.00
5 GHz WIFI 80 MHz Bandwidth	42		9.25	9.25	9.25	9.25	9.25	9.25
	58		8.50	8.50	8.50	8.50	8.50	8.50
	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		9.00	9.00	9.00	9.00	9.00	9.00
5GHz WIFI 160 Mhz Bandwidth	50		8.50	8.50	8.50	8.50	8.50	8.50
	114		9.25	9.25	9.00	9.00	9.00	9.00

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

1.4.3 Reduced WLAN Time-Averaged Output Power

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

Below table is applicable in the following conditions:
-Simultaneous conditions with Licensed Bands Antenna 4b active
-Simultaneous conditions with Inter-Band ULCA active

Mode	Channel	IEEE 802.11 (Maximum in dBm) - Antenna 4a Tolerance (+0/-3.00 dB)						
		SISO				MIMO		
		b	g	n	ax SU	g	n	ax SU
2.4 GHz WIFI 20 MHz Bandwidth	1	7.50	7.50	7.50	7.50	7.50	7.50	7.50
	2	7.50	7.50	7.50	7.50	7.50	7.50	7.50
	3	7.50	7.50	7.50	7.50	7.50	7.50	7.50
	4	7.50	7.50	7.50	7.50	7.50	7.50	7.50
	5	7.50	7.50	7.50	7.50	7.50	7.50	7.50
	6	7.50	7.50	7.50	7.50	7.50	7.50	7.50
	7	7.50	7.50	7.50	7.50	7.50	7.50	7.50
	8	7.50	7.50	7.50	7.50	7.50	7.50	7.50
	9	7.50	7.50	7.50	7.50	7.50	7.50	7.50
	10	7.50	7.50	7.50	7.50	7.50	7.50	7.50
	11	7.50	7.50	7.50	7.50	7.50	7.50	7.50
	12	7.50	7.50	7.50	7.50	7.50	7.50	7.50
	13	7.50	7.50	7.50	NS	7.50	7.50	NS

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

Below table is applicable in the following conditions:
-Simultaneous conditions with Licensed Bands Antenna 2a/2b active
-Simultaneous conditions with Inter-Band ULCA active

Mode	Channel	IEEE 802.11 (Maximum in dBm) - Antenna 2a Tolerance (+0/-3.00 dB)						
		SISO				MIMO		
		b	g	n	ax SU	g	n	ax SU
2.4 GHz WIFI 20 MHz Bandwidth	1	9.50	9.50	9.50	9.50	9.50	9.50	9.50
	2	9.50	9.50	9.50	9.50	9.50	9.50	9.50
	3	9.50	9.50	9.50	9.50	9.50	9.50	9.50
	4	9.50	9.50	9.50	9.50	9.50	9.50	9.50
	5	9.50	9.50	9.50	9.50	9.50	9.50	9.50
	6	9.50	9.50	9.50	9.50	9.50	9.50	9.50
	7	9.50	9.50	9.50	9.50	9.50	9.50	9.50
	8	9.50	9.50	9.50	9.50	9.50	9.50	9.50
	9	9.50	9.50	9.50	9.50	9.50	9.50	9.50
	10	9.50	9.50	9.50	9.50	9.50	9.50	9.50
	11	9.50	9.50	9.50	9.50	9.50	9.50	9.50
	12	9.50	9.50	9.50	9.50	9.50	9.50	9.50
	13	9.50	8.00	8.00	NS	8.00	8.00	NS

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

Below table is applicable in the following conditions:
-Simultaneous conditions with Licensed Bands Antenna 2a/2b active
-Simultaneous conditions with Inter-Band ULCA active

Mode	Channel	IEEE 802.11 (Maximum in dBm) - Antenna 5b Tolerance (+0/-3.00 dB)						
		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	12.50	12.50	12.50	12.50	12.50	12.50	12.50
	40	12.50	12.50	12.50	12.50	12.50	12.50	12.50
	44	12.50	12.50	12.50	12.50	12.50	12.50	12.50
	48	12.50	12.50	12.50	12.50	12.50	12.50	12.50
	52	12.50	12.50	12.50	12.50	12.50	12.50	12.50
	56	12.50	12.50	12.50	12.50	12.50	12.50	12.50
	60	12.50	12.50	12.50	12.50	12.50	12.50	12.50
	64	12.50	12.50	12.50	12.50	12.50	12.50	12.50
	100	11.00	11.00	11.00	11.00	11.00	11.00	11.00
	104	11.00	11.00	11.00	11.00	11.00	11.00	11.00
	108	11.00	11.00	11.00	11.00	11.00	11.00	11.00
	112	11.00	11.00	11.00	11.00	11.00	11.00	11.00
	116	11.00	11.00	11.00	11.00	11.00	11.00	11.00
	120	11.00	11.00	11.00	11.00	11.00	11.00	11.00
	124	11.00	11.00	11.00	11.00	11.00	11.00	11.00
	128	11.00	11.00	11.00	11.00	11.00	11.00	11.00
	132	11.00	11.00	11.00	11.00	11.00	11.00	11.00
	136	11.00	11.00	11.00	11.00	11.00	11.00	11.00
	140	11.00	11.00	11.00	11.00	11.00	11.00	11.00
	144	11.00	11.00	11.00	11.00	11.00	11.00	11.00
	149	11.50	11.50	11.50	11.50	11.50	11.50	11.50
	153	11.50	11.50	11.50	11.50	11.50	11.50	11.50
	157	11.50	11.50	11.50	11.50	11.50	11.50	11.50
	161	11.50	11.50	11.50	11.50	11.50	11.50	11.50
	165	11.50	11.50	11.50	11.50	11.50	11.50	11.50
5 GHz WIFI 40 MHz Bandwidth	38	[redacted]	12.50	12.50	12.50	12.50	12.50	12.50
	46		12.50	12.50	12.50	12.50	12.50	12.50
	54		12.50	12.50	12.50	12.50	12.50	12.50
	62		12.50	12.50	12.50	12.50	12.50	12.50
	102		11.00	11.00	11.00	11.00	11.00	11.00
	110		11.00	11.00	11.00	11.00	11.00	11.00
	118		11.00	11.00	11.00	11.00	11.00	11.00
	126		11.00	11.00	11.00	11.00	11.00	11.00
	134		11.00	11.00	11.00	11.00	11.00	11.00
	142		11.00	11.00	11.00	11.00	11.00	11.00
	151		11.50	11.50	11.50	11.50	11.50	11.50
	159		11.50	11.50	11.50	11.50	11.50	11.50
5 GHz WIFI 80 MHz Bandwidth	42		12.50	12.50	12.50	12.50	12.50	12.50
	58		12.50	12.50	12.50	12.50	12.50	12.50
	106		11.00	11.00	11.00	11.00	11.00	11.00
	122		11.00	11.00	11.00	11.00	11.00	11.00
	138		11.00	11.00	11.00	11.00	11.00	11.00
	155		11.50	11.50	11.50	11.50	11.50	11.50
5GHz WIFI 160 Mhz Bandwidth	50		9.50	9.00	9.00	8.50	9.00	8.50
	114		9.50	9.50	9.00	9.00	9.00	9.00

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

Below table is applicable in the following conditions:
-Simultaneous conditions with Licensed Bands Antenna 4b active
-Simultaneous conditions with Inter-Band ULCA active

Mode	Channel	IEEE 802.11 (Maximum in dBm) - Antenna 4a Tolerance (+0/-3.00 dB)						
		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	3.75	3.75	3.75	3.75	3.75	3.75	3.75
	40	3.75	3.75	3.75	3.75	3.75	3.75	3.75
	44	3.75	3.75	3.75	3.75	3.75	3.75	3.75
	48	3.75	3.75	3.75	3.75	3.75	3.75	3.75
	52	3.00	3.00	3.00	3.00	3.00	3.00	3.00
	56	3.00	3.00	3.00	3.00	3.00	3.00	3.00
	60	3.00	3.00	3.00	3.00	3.00	3.00	3.00
	64	3.00	3.00	3.00	3.00	3.00	3.00	3.00
	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	3.50	3.50	3.50	3.50	3.50	3.50	3.50
	153	3.50	3.50	3.50	3.50	3.50	3.50	3.50
	157	3.50	3.50	3.50	3.50	3.50	3.50	3.50
	161	3.50	3.50	3.50	3.50	3.50	3.50	3.50
	165	3.50	3.50	3.50	3.50	3.50	3.50	3.50
5 GHz WIFI 40 MHz Bandwidth	38	[redacted]	3.75	3.75	3.75	3.75	3.75	3.75
	46		3.75	3.75	3.75	3.75	3.75	3.75
	54		3.00	3.00	3.00	3.00	3.00	3.00
	62		3.00	3.00	3.00	3.00	3.00	3.00
	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
	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		3.50	3.50	3.50	3.50	3.50	3.50
	159		3.50	3.50	3.50	3.50	3.50	3.50
5 GHz WIFI 80 MHz Bandwidth	42		3.75	3.75	3.75	3.75	3.75	3.75
	58		3.00	3.00	3.00	3.00	3.00	3.00
	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		3.50	3.50	3.50	3.50	3.50	3.50
5GHz WIFI 160 Mhz Bandwidth	50		3.75	3.75	3.75	3.75	3.75	3.75
	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.
Note: 802.11a supports up to 20MHz, 802.11n supports up to 40MHz, 802.11ac/ax support up to 160MHz

1.4.4 Bluetooth 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
Bluetooth BDR	Maximum	**14.00**	**10.50**
	Nominal	**12.50**	**9.00**
Bluetooth EDR	Maximum	**13.50**	**7.50**
	Nominal	**12.00**	**6.00**
Bluetooth HDR	Maximum	**10.00**	**5.00**
	Nominal	**8.50**	**3.50**

Mode / Band		Modulated Average (ePA) - TxBF (dBm) - Antenna 4a	Modulated Average (iPA) - TxBF (dBm) - Antenna 4a
Bluetooth BDR/LE	Maximum	**14.00**	**10.50**
	Nominal	**12.50**	**9.00**
Bluetooth EDR	Maximum	**13.50**	**7.50**
	Nominal	**12.00**	**6.00**
Bluetooth HDR	Maximum	**10.00**	**5.00**
	Nominal	**8.50**	**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 2a	Modulated Average (iPA) - Single Tx Chain (dBm) - Antenna 2a
Bluetooth BDR/LE	Maximum	**13.00**	**10.00**
	Nominal	**11.50**	**8.50**
Bluetooth EDR	Maximum	**13.00**	**5.50**
	Nominal	**11.50**	**4.00**
Bluetooth HDR	Maximum	**10.00**	**3.00**
	Nominal	**8.50**	**1.50**

Mode / Band		Modulated Average (ePA) - TxBF (dBm) - Antenna 2a	Modulated Average (iPA) - TxBF (dBm) - Antenna 2a
Bluetooth BDR/LE	Maximum	**13.00**	**10.00**
	Nominal	**11.50**	**8.50**
Bluetooth EDR	Maximum	**13.00**	**5.50**
	Nominal	**11.50**	**4.00**
Bluetooth HDR	Maximum	**10.00**	**3.00**
	Nominal	**8.50**	**1.50**

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

Below table is applicable in the following conditions:
-Simultaneous conditions with Licensed Bands Antenna 3/4b active

Mode / Band		Modulated Average (ePA) - Single Tx Chain (dBm) - Antenna 4a	Modulated Average (iPA) - Single Tx Chain (dBm) - Antenna 4a
Bluetooth BDR Reduced	Maximum	**11.00**	**10.50**
	Nominal	**9.50**	**9.00**
Bluetooth EDR Reduced	Maximum	**11.00**	**7.50**
	Nominal	**9.50**	**6.00**
Bluetooth HDR Reduced	Maximum	**10.00**	**5.00**
	Nominal	**8.50**	**3.50**

Mode / Band		Modulated Average (ePA) - TxBF (dBm) - Antenna 4a	Modulated Average (iPA) - TxBF (dBm) - Antenna 4a
Bluetooth BDR Reduced	Maximum	**11.00**	**10.50**
	Nominal	**9.50**	**9.00**
Bluetooth EDR Reduced	Maximum	**11.00**	**7.50**
	Nominal	**9.50**	**6.00**
Bluetooth HDR Reduced	Maximum	**10.00**	**5.00**
	Nominal	**8.50**	**3.50**

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

Below table is applicable in the following conditions:
-Simultaneous conditions with Licensed Bands Antenna 1/2a/2b and 5/6 GHz WLAN active
-Simultaneous conditions with 5/6 GHz WLAN active

Mode / Band		Modulated Average (ePA) - Single Tx Chain (dBm) - Antenna 4a	Modulated Average (iPA) - Single Tx Chain (dBm) - Antenna 4a
Bluetooth BDR Reduced	Maximum	**9.00**	**9.00**
	Nominal	**7.50**	**7.50**
Bluetooth EDR Reduced	Maximum	**9.00**	**7.50**
	Nominal	**7.50**	**6.00**
Bluetooth HDR Reduced	Maximum	**9.00**	**5.00**
	Nominal	**7.50**	**3.50**

Mode / Band		Modulated Average (ePA) - TxBF (dBm) - Antenna 4a	Modulated Average (iPA) - TxBF (dBm) - Antenna 4a
Bluetooth BDR Reduced	Maximum	**9.00**	**9.00**
	Nominal	**7.50**	**7.50**
Bluetooth EDR Reduced	Maximum	**9.00**	**7.50**
	Nominal	**7.50**	**6.00**
Bluetooth HDR Reduced	Maximum	**9.00**	**5.00**
	Nominal	**7.50**	**3.50**

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

Below table is applicable in the following conditions:
-Simultaneous conditions with Licensed Bands Antenna 3/4b and 5/6 GHz WLAN active
-Simultaneous conditions with Inter-Band ULCA active

Mode / Band		Modulated Average (ePA) - Single Tx Chain (dBm) - Antenna 4a	Modulated Average (iPA) - Single Tx Chain (dBm) - Antenna 4a
Bluetooth BDR Reduced	Maximum	**7.00**	**7.00**
	Nominal	**5.50**	**5.50**
Bluetooth EDR Reduced	Maximum	**7.00**	**7.00**
	Nominal	**5.50**	**5.50**
Bluetooth HDR Reduced	Maximum	**7.00**	**5.00**
	Nominal	**5.50**	**3.50**

Mode / Band		Modulated Average (ePA) - TxBF (dBm) - Antenna 4a	Modulated Average (iPA) - TxBF (dBm) - Antenna 4a
Bluetooth BDR Reduced	Maximum	**7.00**	**7.00**
	Nominal	**5.50**	**5.50**
Bluetooth EDR Reduced	Maximum	**7.00**	**7.00**
	Nominal	**5.50**	**5.50**
Bluetooth HDR Reduced	Maximum	**7.00**	**5.00**
	Nominal	**5.50**	**3.50**

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

Below table is applicable in the following conditions:
-Simultaneous conditions with Licensed Bands Antenna 3/4b and 5/6 GHz WLAN active
-Simultaneous conditions with Licensed Bands Antenna 1/2a/2b active
- Simultaneous conditions with 5/6 GHz WLAN active

Mode / Band		Modulated Average (ePA) - Single Tx Chain (dBm) - Antenna 2a	Modulated Average (iPA) - Single Tx Chain (dBm) - Antenna 2a
Bluetooth BDR Reduced	Maximum	**9.00**	**9.00**
	Nominal	**7.50**	**7.50**
Bluetooth EDR Reduced	Maximum	**9.00**	**5.50**
	Nominal	**7.50**	**4.00**
Bluetooth HDR Reduced	Maximum	**9.00**	**3.00**
	Nominal	**7.50**	**1.50**

Mode / Band		Modulated Average (ePA) - TxBF (dBm) - Antenna 2a	Modulated Average (iPA) - TxBF (dBm) - Antenna 2a
Bluetooth BDR Reduced	Maximum	**9.00**	**9.00**
	Nominal	**7.50**	**7.50**
Bluetooth EDR Reduced	Maximum	**9.00**	**5.50**
	Nominal	**7.50**	**4.00**
Bluetooth HDR Reduced	Maximum	**9.00**	**3.00**
	Nominal	**7.50**	**1.50**

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

Below table is applicable in the following conditions:
-Simultaneous conditions with Licensed Bands Antenna 2a/2b and 5/6 GHz WLAN active
-Simultaneous conditions with Inter-Band ULCA active

Mode / Band		Modulated Average (ePA) - Single Tx Chain (dBm) - Antenna 2a	Modulated Average (iPA) - Single Tx Chain (dBm) - Antenna 2a
Bluetooth BDR Reduced	Maximum	**6.00**	**6.00**
	Nominal	**4.50**	**4.50**
Bluetooth EDR Reduced	Maximum	**6.00**	**5.50**
	Nominal	**4.50**	**4.00**
Bluetooth HDR Reduced	Maximum	**6.00**	**3.00**
	Nominal	**4.50**	**1.50**

Mode / Band		Modulated Average (ePA) - TxBF (dBm) - Antenna 2a	Modulated Average (iPA) - TxBF (dBm) - Antenna 2a
Bluetooth BDR Reduced	Maximum	**6.00**	**6.00**
	Nominal	**4.50**	**4.50**
Bluetooth EDR Reduced	Maximum	**6.00**	**5.50**
	Nominal	**4.50**	**4.00**
Bluetooth HDR Reduced	Maximum	**6.00**	**3.00**
	Nominal	**4.50**	**1.50**

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

1.4.5 NB UNII Maximum and Reduced Output Power

Mode / Band		Modulated Average (ePA) - Single Tx Chain (dBm) - Antenna 5b	Modulated Average (ePA) - TxBF (dBm) - Antenna 5b
NB UNII-1 BDR	Maximum	**10.00**	**7.00**
	Nominal	**8.50**	**5.50**
NB UNII-1 HDR	Maximum	**12.00**	**9.00**
	Nominal	**10.50**	**7.50**

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 (ePA) - TxBF (dBm) - Antenna 4a
NB UNII-1 BDR	Maximum	**10.00**	**7.00**
	Nominal	**8.50**	**5.50**
NB UNII-1 HDR	Maximum	**10.50**	**9.00**
	Nominal	**9.00**	**7.50**

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

Mode / Band		Modulated Average (ePA) - Single Tx Chain (dBm) - Antenna 5b	Modulated Average (ePA) - TxBF (dBm) - Antenna 5b
NB UNII-3 BDR	Maximum	**16.00**	**16.00**
	Nominal	**14.50**	**14.50**
NB UNII-3 HDR	Maximum	**14.00**	**14.00**
	Nominal	**12.50**	**12.50**

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 (ePA) - TxBF (dBm) - Antenna 4a
NB UNII-3 BDR	Maximum	**10.50**	**10.50**
	Nominal	**9.00**	**9.00**
NB UNII-3 HDR	Maximum	**10.50**	**10.50**
	Nominal	**9.00**	**9.00**

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

Below table is applicable in the following conditions:
-Simultaneous conditions with Licensed Bands Antenna 1/2a/2b active or 2.4 WLAN Antenna 2a/4a active

Mode / Band		Modulated Average (ePA) - Single Tx Chain (dBm) - Antenna 5b	Modulated Average (ePA) - TxBF (dBm) - Antenna 5b
NB UNII-1 BDR Reduced	Maximum	**8.00**	**7.00**
	Nominal	**6.50**	**5.50**
NB UNII-1 HDR Reduced	Maximum	**8.00**	**8.00**
	Nominal	**6.50**	**6.50**

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

Mode / Band		Modulated Average (ePA) - Single Tx Chain (dBm) - Antenna 5b	Modulated Average (ePA) - TxBF (dBm) - Antenna 5b
NB UNII-3 BDR Reduced	Maximum	**12.00**	**12.00**
	Nominal	**10.50**	**10.50**
NB UNII-3 HDR Reduced	Maximum	**12.00**	**12.00**
	Nominal	**10.50**	**10.50**

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

Below table is applicable in the following conditions:
-Simultaneous conditions with Licensed Bands Antenna 2a/2b active and 2.4 WLAN Antenna 2a/4a active

Mode / Band		Modulated Average (ePA) - Single Tx Chain (dBm) - Antenna 5b	Modulated Average (ePA) - TxBF (dBm) - Antenna 5b
NB UNII-1 BDR Reduced	Maximum	**5.00**	**5.00**
	Nominal	**3.50**	**3.50**
NB UNII-1 HDR Reduced	Maximum	**5.00**	**5.00**
	Nominal	**3.50**	**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 5b	Modulated Average (ePA) - TxBF (dBm) - Antenna 5b
NB UNII-3 BDR Reduced	Maximum	**9.00**	**9.00**
	Nominal	**7.50**	**7.50**
NB UNII-3 HDR Reduced	Maximum	**9.00**	**9.00**
	Nominal	**7.50**	**7.50**

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

Below table is applicable in the following conditions:
-Simultaneous conditions with Licensed Bands Antenna 3/4b

Mode / Band		Modulated Average (ePA) - Single Tx Chain (dBm) - Antenna 4a	Modulated Average (ePA) - TxBF (dBm) - Antenna 4a
NB UNII-1 BDR Reduced	Maximum	**7.50**	**7.00**
	Nominal	**6.00**	**5.50**
NB UNII-1 HDR Reduced	Maximum	**7.50**	**7.50**
	Nominal	**6.00**	**6.00**

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

Mode / Band		Modulated Average (ePA) - Single Tx Chain (dBm) - Antenna 4a	Modulated Average (ePA) - TxBF (dBm) - Antenna 4a
NB UNII-3 BDR Reduced	Maximum	**7.50**	**7.50**
	Nominal	**6.00**	**6.00**
NB UNII-3 HDR Reduced	Maximum	**7.50**	**7.50**
	Nominal	**6.00**	**6.00**

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

Below table is applicable in the following conditions:
-Simultaneous conditions with Licensed Bands Antenna 1/2a/2b and 2.4 WLAN active
-Simultaneous with 2.4 WLAN active

Mode / Band		Modulated Average (ePA) - Single Tx Chain (dBm) - Antenna 4a	Modulated Average (ePA) - TxBF (dBm) - Antenna 4a
NB UNII-1 BDR Reduced	Maximum	**5.50**	**5.50**
	Nominal	**4.00**	**4.00**
NB UNII-1 EDR Reduced	Maximum	**5.50**	**5.50**
	Nominal	**4.00**	**4.00**

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

Mode / Band		Modulated Average (ePA) - Single Tx Chain (dBm) - Antenna 4a	Modulated Average (ePA) - TxBF (dBm) - Antenna 4a
NB UNII-3 BDR Reduced	Maximum	**5.50**	**5.50**
	Nominal	**4.00**	**4.00**
NB UNII-3 EDR Reduced	Maximum	**5.50**	**5.50**
	Nominal	**4.00**	**4.00**

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

Below table is applicable in the following conditions:
-Simultaneous conditions with Licensed Bands Antenna 3/4b and 2.4 WLAN active

Mode / Band		Modulated Average (ePA) - Single Tx Chain (dBm) - Antenna 4a	Modulated Average (ePA) - TxBF (dBm) - Antenna 4a
NB UNII-1 BDR Reduced	Maximum	**3.50**	**3.50**
	Nominal	**2.00**	**2.00**
NB UNII-1 HDR Reduced	Maximum	**3.50**	**3.50**
	Nominal	**2.00**	**2.00**

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

Mode / Band		Modulated Average (ePA) - Single Tx Chain (dBm) - Antenna 4a	Modulated Average (ePA) - TxBF (dBm) - Antenna 4a
NB UNII-3 BDR Reduced	Maximum	**3.50**	**3.50**
	Nominal	**2.00**	**2.00**
NB UNII-3 HDR Reduced	Maximum	**3.50**	**3.50**
	Nominal	**2.00**	**2.00**

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

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 Appendix E. Exact antenna dimensions and separation distances are shown in the Technical Descriptions in the FCC filings.

Table 1-6
Device Edges/Sides for SAR Testing

Device Sides/Edges for SAR Testing						
Mode	Back	Front	Top	Bottom	Right	Left
UMTS 850 Antenna 1	Yes	No	No	Yes	No	Yes
UMTS 1750 Antenna 1	Yes	No	No	Yes	No	Yes
UMTS 1900 Antenna 1	Yes	No	No	Yes	No	Yes
LTE Band 71 Antenna 1	Yes	No	No	Yes	No	Yes
LTE Band 12 Antenna 1	Yes	No	No	Yes	No	Yes
LTE Band 13 Antenna 1	Yes	No	No	Yes	No	Yes
LTE Ban 14 Antenna 1	Yes	No	No	Yes	No	Yes
LTE Band 26 (Cell) Antenna 1	Yes	No	No	Yes	No	Yes
LTE Band 5 (Cell) Antenna 1	Yes	No	No	Yes	No	Yes
LTE Band 66 (AWS) Antenna 1	Yes	No	No	Yes	No	Yes
LTE Band 25 (PCS) Antenna 1	Yes	No	No	Yes	No	Yes
LTE Band 30 Antenna 1	Yes	No	No	Yes	No	Yes
LTE Band 7 Antenna 1	Yes	No	No	Yes	No	Yes
LTE Band 41 Antenna 1	Yes	No	No	Yes	No	Yes
LTE Band 48 Antenna 1	Yes	No	No	Yes	No	Yes
NR Band n71 Antenna 1	Yes	No	No	Yes	No	Yes
NR Band n12 Antenna 1	Yes	No	No	Yes	No	Yes
NR Band n5 (Cell) Antenna 1	Yes	No	No	Yes	No	Yes
NR Band n26 (Cell) Antenna 1	Yes	No	No	Yes	No	Yes
NR Band n70 Antenna 1	Yes	No	No	Yes	No	Yes
NR Band n66 (AWS) Antenna 1	Yes	No	No	Yes	No	Yes
NR Band n25 (PCS) Antenna 1	Yes	No	No	Yes	No	Yes
NR Band n30 Antenna 1	Yes	No	No	Yes	No	Yes
NR Band n7 Antenna 1	Yes	No	No	Yes	No	Yes
NR Band n41 Antenna 1	Yes	No	No	Yes	No	Yes
NR Band n77 C Antenna 1	Yes	No	No	Yes	No	Yes
NR Band n77 DoD Antenna 1	Yes	No	No	Yes	No	Yes
LTE Band 48 Antenna 2a	Yes	No	No	Yes	Yes	No
NR Band n77 C Antenna 2a	Yes	No	No	Yes	Yes	No
NR Band n77 DoD Antenna 2a	Yes	No	No	Yes	Yes	No
UMTS 1750 Antenna 2b	Yes	No	No	Yes	No	No
UMTS 1900 Antenna 2b	Yes	No	No	Yes	No	No
LTE Band 66 (AWS) Antenna 2b	Yes	No	No	Yes	No	No
LTE Band 25 (PCS) Antenna 2b	Yes	No	No	Yes	No	No
LTE Band 30 Antenna 2b	Yes	No	No	Yes	No	No
LTE Band 7 Antenna 2b	Yes	No	No	Yes	No	No
LTE Band 41 Antenna 2b	Yes	No	No	Yes	No	No
NR Band n70 Antenna 2b	Yes	No	No	Yes	No	No
NR Band n66 (AWS) Antenna 2b	Yes	No	No	Yes	No	No
NR Band n25 (PCS) Antenna 2b	Yes	No	No	Yes	No	No
NR Band n30 Antenna 2b	Yes	No	No	Yes	No	No
NR Band n7 Antenna 2b	Yes	No	No	Yes	No	No
NR Band n41 Antenna 2b	Yes	No	No	Yes	No	No

Table 1-7
Device Edges/Sides for SAR Testing Cont'd

Device Sides/Edges for SAR Testing						
Mode	Back	Front	Top	Bottom	Right	Left
UMTS 850 Antenna 3	Yes	No	Yes	No	Yes	No
UMTS 1750 Antenna 3	Yes	No	Yes	No	Yes	No
UMTS 1900 Antenna 3	Yes	No	Yes	No	Yes	No
LTE Band 71 Antenna 3	Yes	No	Yes	No	Yes	No
LTE Band 12 Antenna 3	Yes	No	Yes	No	Yes	No
LTE Band 13 Antenna 3	Yes	No	Yes	No	Yes	No
LTE Ban 14 Antenna 3	Yes	No	Yes	No	Yes	No
LTE Band 26 (Cell) Antenna 3	Yes	No	Yes	No	Yes	No
LTE Band 5 (Cell) Antenna 3	Yes	No	Yes	No	Yes	No
LTE Band 66 (AWS) Antenna 3	Yes	No	Yes	No	Yes	No
LTE Band 25 (PCS) Antenna 3	Yes	No	Yes	No	Yes	No
LTE Band 30 Antenna 3	Yes	No	Yes	No	Yes	No
LTE Band 7 Antenna 3	Yes	No	Yes	No	Yes	No
LTE Band 41 Antenna 3	Yes	No	Yes	No	Yes	No
LTE Band 48 Antenna 3	Yes	No	Yes	No	Yes	No
NR Band n71 Antenna 3	Yes	No	Yes	No	Yes	No
NR Band n12 Antenna 3	Yes	No	Yes	No	Yes	No
NR Band n5 (Cell) Antenna 3	Yes	No	Yes	No	Yes	No
NR Band n26 (Cell) Antenna 3	Yes	No	Yes	No	Yes	No
NR Band n70 Antenna 3	Yes	No	Yes	No	Yes	No
NR Band n66 (AWS) Antenna 3	Yes	No	Yes	No	Yes	No
NR Band n25 (PCS) Antenna 3	Yes	No	Yes	No	Yes	No
NR Band n30 Antenna 3	Yes	No	Yes	No	Yes	No
NR Band n7 Antenna 3	Yes	No	Yes	No	Yes	No
NR Band n41 Antenna 3	Yes	No	Yes	No	Yes	No
NR Band n77 C Antenna 3	Yes	No	Yes	No	Yes	No
NR Band n77 DoD Antenna 3	Yes	No	Yes	No	Yes	No
UMTS 1750 Antenna 4b	Yes	No	Yes	No	No	No
UMTS 1900 Antenna 4b	Yes	No	Yes	No	No	No
LTE Band 66 (AWS) Antenna 4b	Yes	No	Yes	No	No	No
LTE Band 25 (PCS) Antenna 4b	Yes	No	Yes	No	No	No
LTE Band 30 Antenna 4b	Yes	No	Yes	No	No	No
LTE Band 7 Antenna 4b	Yes	No	Yes	No	No	No
LTE Band 41 Antenna 4b	Yes	No	Yes	No	No	No
LTE Band 48 Antenna 4b	Yes	No	Yes	No	No	No
NR Band n70 Antenna 4b	Yes	No	Yes	No	No	No
NR Band n66 (AWS) Antenna 4b	Yes	No	Yes	No	No	No
NR Band n25 (PCS) Antenna 4b	Yes	No	Yes	No	No	No
NR Band n30 Antenna 4b	Yes	No	Yes	No	No	No
NR Band n7 Antenna 4b	Yes	No	Yes	No	No	No
NR Band n41 Antenna 4b	Yes	No	Yes	No	No	No
NR Band n77 C Antenna 4b	Yes	No	Yes	No	No	No
NR Band n77 DoD Antenna 4b	Yes	No	Yes	No	No	No
2.4GHz WLAN Antenna 2a	Yes	No	No	Yes	Yes	No
2.4GHz WLAN Antenna 4a	Yes	No	Yes	No	No	Yes
5 GHz WLAN Antenna WF5B	Yes	No	No	No	Yes	No
5 GHz WLAN Antenna 4a	Yes	No	Yes	No	No	Yes
Bluetooth Antenna 2a	Yes	No	No	Yes	Yes	No
Bluetooth Antenna 4a	Yes	No	Yes	No	No	Yes
NB UNII-1 Antenna WF5B	Yes	No	No	No	Yes	No
NB UNII-1 Antenna 4a	Yes	No	Yes	No	No	Yes
NB UNII-3 Antenna WF5B	Yes	No	No	No	Yes	No
NB UNII-3 Antenna 4a	Yes	No	Yes	No	No	Yes

Note: Per FCC KDB Publication 616217 D04v01r01, particular edges were not required to be evaluated for SAR based on the SAR exclusion threshold in KDB 447498 D01V06. Additional edges may have been evaluated for simultaneous transmission analysis.

1.6 Simultaneous Transmission Capabilities

According to FCC KDB Publication 447498 D01v06, transmitters are considered to be operating simultaneously when there is overlapping transmission, with the exception of transmissions during network hand-offs with maximum hand-off duration less than 30 seconds.

This device contains multiple transmitters that may operate simultaneously, and therefore requires a simultaneous transmission analysis according to FCC KDB Publication 447498 D01v06 4.3.2 procedures.

Table 1-8
Simultaneous Transmission Scenarios

No.	Capable Transmit Configuration	Body
1	Cellular Band + 2.4 GHz WIFI	Yes
2	Cellular Band + 5/6 GHz WIFI	Yes
3	Cellular Band + 2.4 GHz Bluetooth	Yes
4	Cellular Band+ 2.4 GHz WIFI MIMO	Yes
5	Cellular Band+ 5/6 GHz WIFI MIMO	Yes
6	Cellular Band + 2.4 GHz Bluetooth + 5/6 GHz WIFI	Yes
7	Cellular Band + 2.4 GHz Bluetooth + 5/6 GHz WIFI MIMO	Yes
8	2.4 GHz Bluetooth + 5 GHz WIFI	Yes
9	2.4 GHz Bluetooth + 5/6 GHz WIFI MIMO	Yes
10	Cellular Band + 2.4 GHz Bluetooth(TXBF) + 5/6 GHz WIFI	Yes
11	Cellular Band + 2.4 GHz Bluetooth(TXBF) + 5/6 GHz WIFI MIMO	Yes
12	2.4 GHz Bluetooth(TXBF) + 5/6 GHz WIFI	Yes
13	2.4 GHz Bluetooth (TXBF) + 5/6 GHZ WIFI MIMO	Yes
14	Cellular Band + NB UNII	Yes
15	Cellular + NB UNII + 2.4 GHz WIFI	Yes
16	Cellular + NB UNII + 2.4 GHz WIFI MIMO	Yes
17	NB UNII + 2.4 GHz WIFI	Yes
18	NB UNII + 2.4 GHz WIFI MIMO	Yes
19	Cellular Band + NB UNII(TXBF) + 2.4 GHz WIFI	Yes
20	Cellular + NB UNII(TXBF) + 2.4 GHz WIFI MIMO	Yes
21	Cellular Band + NB UNII(TXBF)	Yes
22	Cellular + 2.4 GHz Bluetooth(TXBF)	Yes
23	NB UNII(TXBF) + 2.4 GHz WIFI	Yes
24	NB UNII(TXBF) + 2.4 GHz WIFI MIMO	Yes
25	2.4 GHz WIFI + 2.4 GHz Bluetooth	Yes
26	Cellular Band + 2.4 GHz WIFI + 2.4 GHz Bluetooth	Yes

Table 1-9
Simultaneous Transmission Scenarios of Inter-Band ULCA

No.	Capable Transmit Configuration	Body	Notes
1	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 B2/4/7/66/30
2	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 B2/4/7/66/30
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 B2/4/7/66/30
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 B2/4/7/66/30
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 B2/4/7/66/30
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 B2/4/7/66/30

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

Table 1-10
Simultaneous Transmission Scenarios with Inter-Band ULCA Active

No.	Capable Transmit Configuration	Body
1	LTE Inter-Band ULCA + 2.4 GHz WI-FI	Yes
2	LTE Inter-Band ULCA + 5/6 GHz WI-FI	Yes
3	LTE Inter-Band ULCA + 2.4 GHz Bluetooth	Yes
4	LTE Inter-Band ULCA + 2.4 GHz WI-FI MIMO	Yes
5	LTE Inter-Band ULCA + 5/6 GHz WI-FI MIMO	Yes
6	LTE Inter-Band ULCA + 2.4 GHz Bluetooth + 5/6 GHz WI-FI	Yes
7	LTE Inter-Band ULCA + 2.4 GHz Bluetooth + 5/6 GHz WI-FI MIMO	Yes
8	LTE Inter-Band ULCA + 2.4 GHz Bluetooth(TXBF) + 5/6 GHz WI-FI	Yes
9	LTE Inter-Band ULCA + 2.4 GHz Bluetooth(TXBF) + 5/6 GHz WI-FI MIMO	Yes
10	LTE Inter-Band ULCA + NB UNII	Yes
11	LTE Inter-Band ULCA + UNII NB + 2.4 GHz WI-FI	Yes
12	LTE Inter-Band ULCA + UNII NB + 2.4 GHz WI-FI MIMO	Yes
13	LTE Inter-Band ULCA + UNII NB(TXBF) + 2.4 GHz WI-FI	Yes
14	LTE Inter-Band ULCA + UNII NB(TXBF) + 2.4 GHz WI-FI MIMO	Yes
15	LTE Inter-Band ULCA + UNII NB(TXBF)	Yes
16	LTE Inter-Band ULCA + 2.4 GHz Bluetooth(TXBF)	Yes
17	LTE Inter-Band ULCA + 2.4 GHz WI-FI + 2.4 GHz Bluetooth	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. Wi-Fi 2.4GHz and Bluetooth 2.4 GHz can transmit simultaneously on separate antennas. 2.4 GHz WLAN Antenna 4a can only transmit simultaneously with 2.4GHz Bluetooth Antenna 2a. In this scenario Wi-Fi max power will not exceed minimum of (13.5dBm, SAR max cap, Reg max cap) power.
3. This device supports 2x2 MIMO Tx for WLAN 802.11a/g/n/ac/ax. 802.11a/g/n/ac/ax supports CDD and STBC and 802.11n/ac/ax additionally supports SDM. Each WLAN antenna can transmit independently or together when operating with MIMO.
4. EN-DC operation is supported with LTE + 5G NR FR1 scenarios. The LTE anchor bands are shown in the NR FR1 checklist.
5. This device supports VoWIFI.
6. This device supports VoLTE.
7. 5G NR FR2 n258, n260, and n261 cannot transmit simultaneously.
8. LTE + 5G NR FR2 Scenarios are limited to EN-DC combinations with anchor bands as shown in the NR FR2 checklist.

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 4a and U-NII-2A was evaluated for Antenna 5b. Additional testing for U-NII-2A Antenna 4a and for UNII- 1 Antenna 5b SAR was not required since all reported SAR was less than 1.2 W/kg per FCC KDB Publication 248227 D01v02r02.

The WLAN/Bluetooth chipset in this device is produced by two different suppliers. The electrically identical modules are manufactured with the 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/Bluetooth SAR worst case configuration was tested on Variant 1 and Variant 2.

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) 3 Tx antenna output
d) Up to 1024 QAM is supported
e) TDWR and Band gap channels are supported for 5 GHz
f) 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.

(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 Appendix F.

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 2/4/5/7/12/13/1430 with two component carriers in the uplink.

This device supports 5G NR for Bands n258, n260, and n261. RF Exposure assessment and simultaneous transmission analysis for these bands can be found in the Near Field PD Report (report SN can be found in Bibliography section).

1.8 Guidance Applied

- FCC KDB Publication 941225 D01v03r01, D05v02r04, D05Av01r02 (3G/4G)
- FCC KDB Publication 248227 D01v02r02 (SAR Considerations for 802.11 Devices)
- FCC KDB Publication 447498 D01v06 (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)
- April 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)

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
SAR Part 0 Test Report	1C2205090025-25.BCG
RF Exposure Part 2 Test Report	1C2205090025-27.BCG
Compliance summary	1C2205090025-30.BCG
Near Field PD Report (Part 1)	1C2205090025-29.BCG
Near Field PD Part 0 Report	1C2205090025-28.BCG
Wifi 6GHz RF Exposure Report	1C2205090025-33.BCG

2 LTE INFORMATION

LTE Information					
Form Factor	Tablet Device				
Frequency Range of each LTE transmission band	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) (814.7 - 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)				
Channel Bandwidths	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				
	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 (20407)		836.5 (20525)	848.3 (20643)	
LTE Band 5 (Cell): 3 MHz	825.5 (20415)		836.5 (20525)	847.5 (20635)	
LTE Band 5 (Cell): 5 MHz	826.5 (20425)		836.5 (20525)	846.5 (20625)	
LTE Band 5 (Cell): 10 MHz	829 (20450)		836.5 (20525)	844 (20600)	
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 (27685)		2310 (27710)	2312.5 (27735)	
LTE Band 30: 10 MHz	N/A		2310 (27710)	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)		2535 (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)	2549.5 (40185)	2593 (40620)	2636.5 (41055)
LTE Band 41: 10 MHz	2506 (39750)	2549.5 (40185)	2549.5 (40185)	2593 (40620)	2636.5 (41055)
LTE Band 41: 15 MHz	2506 (39750)	2549.5 (40185)	2549.5 (40185)	2593 (40620)	2636.5 (41055)
LTE Band 41: 20 MHz	2506 (39750)	2549.5 (40185)	2549.5 (40185)	2593 (40620)	2636.5 (41055)
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 (QPSK, 16QAM, 64QAM, 256 QAM) , UL UE Cat 18 (QPSK, 16QAM, 64QAM, 256QAM)				
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 Testing?	YES				
LTE Carrier Aggregation Possible Combinations	The technical description includes all the possible carrier aggregation combinations				
LTE Additional Information	This device does not support full CA features on 3GPP Release 15. All uplink communications are identical to the Release 8 Specifications. Uplink communications are done on the PCC. The following LTE Release 15 Features are not supported: Relay, HetNet, Enhanced MIMO, eICIC, WIFI Offloading, eMBMS, Cross-Carrier Scheduling, Enhanced SC-FDMA.				

NR Information						
Form Factor	Tablet					
Frequency Range of each NR transmission band	NR Band n71 (665.5 - 695.5 MHz) NR Band n12 (701.5 - 713.5 MHz) NR Band n14 (790.5 - 795.5 MHz) NR Band n26 (Cell) (816.5 - 846.5 MHz) NR Band n5 (Cell) (826.5 - 846.5 MHz) NR Band n70 (1697.5-1707.5 MHz) NR Band n66 (AWS) (1712.5 - 1777.5 MHz) NR Band n25 (PCS) (1852.5 - 1912.5 MHz) NR Band n2 (PCS) (1852.5 - 1907.5 MHz) NR Band n30 (2307.5 - 2312.5 MHz) NR Band n7 (2502.5 - 2567.5 MHz) NR Band n41 (2506.02 - 2679.99 MHz) NR Band n77 DoD (3455.01 - 3544.98 MHz) NR Band n77 C (3705 - 3975 MHz)					
Channel Bandwidths	NR Band n71: 5 MHz, 10 MHz, 15 MHz, 20 MHz NR Band n12: 5 MHz, 10 MHz, 15 MHz NR Band n14: 5 MHz, 10 MHz NR Band n26 (Cell): 5 MHz, 10 MHz NR Band n5 (Cell): 5 MHz, 10 MHz, 15 MHz, 20 MHz NR Band n70: 5 MHz, 10 MHz, 15 MHz NR Band n66 (AWS): 5 MHz, 10 MHz, 15 MHz, 20 MHz, 30 MHz, 40 MHz NR Band n25 (PCS): 5 MHz, 10 MHz, 15 MHz, 20 MHz, 25 MHz, 30 MHz, 40 MHz NR Band n2 (PCS): 5 MHz, 10 MHz, 15 MHz, 20 MHz NR Band n30: 5 MHz, 10 MHz NR Band n7: 5 MHz, 10 MHz, 15 MHz, 20 MHz, 25 MHz, 30 MHz, 40 MHz NR Band n41: 20 MHz, 30 MHz, 40 MHz, 50 MHz, 60 MHz, 70 MHz, 80 MHz, 90 MHz, 100 MHz NR Band n77 DoD: 10 MHz, 15 MHz, 20 MHz, 30 MHz, 40 MHz, 50 MHz, 60 MHz, 70 MHz, 80 MHz, 90 MHz, 100 MHz NR Band n77 C: 10 MHz, 15 MHz, 20 MHz, 30 MHz, 40 MHz, 50 MHz, 60 MHz, 70 MHz, 80 MHz, 90 MHz, 100 MHz					
Channel Numbers and Frequencies (MHz)	Low	Low-Mid	Mid		Mid-High	High
NR Band n71: 5 MHz	665.5 (133100)		680.5 (136100)		695.5 (139100)	
NR Band n71: 10 MHz	668 (133800)		680.5 (136100)		693 (138600)	
NR Band n71: 15 MHz	670.5 (134100)		680.5 (136100)		690.5 (138100)	
NR Band n71: 20 MHz	673 (134600)		680.5 (136100)		688 (137600)	
NR Band n12: 5 MHz	701.5 (140300)		707.5 (141500)		713.5 (142700)	
NR Band n12: 10 MHz	704 (140800)		707.5 (141500)		711 (142200)	
NR Band n12: 15 MHz	706.5 (141300)		707.5 (141500)		708.5 (141700)	
NR Band n14: 5 MHz	790.5 (158100)		793 (158600)		795.5 (159100)	
NR Band n14: 10 MHz	N/A		793 (158600)		N/A	
NR Band n26 (Cell): 5 MHz	816.5 (163300)		831.5 (166300)		846.5 (169300)	
NR Band n26 (Cell): 10 MHz	819 (163800)		831.5 (166300)		844 (168800)	
NR Band n5 (Cell): 5 MHz	826.5 (165300)		836.5 (167300)		846.5 (169300)	
NR Band n5 (Cell): 10 MHz	829 (165800)		836.5 (167300)		844 (168800)	
NR Band n5 (Cell): 15 MHz	831.5 (166300)		836.5 (167300)		841.5 (168300)	
NR Band n5 (Cell): 20 MHz	834 (166800)		836.5 (167300)		839 (167800)	
NR Band n70: 5 MHz	1697.5 (339500)		1702.5 (340500)		1707.5 (341500)	
NR Band n70: 10 MHz	1700 (340000)		1702.5 (340500)		1705 (341000)	
NR Band n70: 15 MHz	N/A		1702.5 (340500)		N/A	
NR Band n66 (AWS): 5 MHz	1712.5 (342500)		1745 (349000)		1777.5 (355500)	
NR Band n66 (AWS): 10 MHz	1715 (343000)		1745 (349000)		1775 (355000)	
NR Band n66 (AWS): 15 MHz	1717.5 (343500)		1745 (349000)		1772.5 (354500)	
NR Band n66 (AWS): 20 MHz	1720 (344000)		1745 (349000)		1770 (354000)	
NR Band n66 (AWS): 30 MHz	1725 (345000)		1745 (349000)		1765 (353000)	
NR Band n66 (AWS): 40 MHz	1730 (346000)		1745 (349000)		1760 (352000)	
NR Band n25 (PCS): 5 MHz	1852.5 (370500)		1882.5 (376500)		1912.5 (382500)	
NR Band n25 (PCS): 10 MHz	1855 (371000)		1882.5 (376500)		1910 (382000)	
NR Band n25 (PCS): 15 MHz	1857.5 (371500)		1882.5 (376500)		1907.5 (381500)	
NR Band n25 (PCS): 20 MHz	1860 (372000)		1882.5 (376500)		1905 (381000)	
NR Band n25 (PCS): 25 MHz	1862.5 (372500)		1882.5 (376500)		1902.5 (380500)	
NR Band n25 (PCS): 30 MHz	1865 (373000)		1882.5 (376500)		1900 (380000)	
NR Band n25 (PCS): 40 MHz	1870 (374000)		1882.5 (376500)		1895 (379000)	
NR Band n2 (PCS): 5 MHz	1852.5 (370500)		1880 (376000)		1907.5 (381500)	
NR Band n2 (PCS): 10 MHz	1855 (371000)		1880 (376000)		1905 (381000)	
NR Band n2 (PCS): 15 MHz	1857.5 (371500)		1880 (376000)		1902.5 (380500)	
NR Band n2 (PCS): 20 MHz	1860 (372000)		1880 (376000)		1900 (380000)	
NR Band n30: 5 MHz	2307.5 (461500)		2310 (462000)		2312.5 (462500)	
NR Band n30: 10 MHz	N/A		2310 (462000)		N/A	
NR Band n7: 5 MHz	2502.5 (500500)		2535 (507000)		2567.5 (513500)	
NR Band n7: 10 MHz	2505 (501000)		2535 (507000)		2565 (513000)	
NR Band n7: 15 MHz	2507.5 (501500)		2535 (507000)		2562.5 (512500)	
NR Band n7: 20 MHz	2510 (502000)		2535 (507000)		2560 (512000)	
NR Band n7: 25 MHz	2512.5 (502500)		2535 (507000)		2557.5 (511500)	
NR Band n7: 30 MHz	2515 (503000)		2535 (507000)		2555 (511000)	
NR Band n7: 40 MHz	2520 (504000)		2535 (507000)		2550 (510000)	
NR Band n41: 20 MHz	2506.02 (501204)	2549.49 (509898)	2592.99 (518598)		2636.49 (527298)	2679.99 (535998)
NR Band n41: 30 MHz	2511 (502200)	2552.01 (510402)	2592.99 (518598)		2634 (526800)	2674.98 (534996)
NR Band n41: 40 MHz	2516.01 (503202)	2567.34 (513468)	N/A		2618.67 (523734)	2670 (534000)
NR Band n41: 50 MHz	2521.02 (504204)		2592.99 (518598)		2664.99 (532998)	
NR Band n41: 60 MHz	2526 (505200)		2592.99 (518598)		2659.98 (531996)	
NR Band n41: 70 MHz	2531.01 (506202)		N/A		2655 (531000)	
NR Band n41: 80 MHz	2536.02 (507204)		N/A		2649.99 (529998)	
NR Band n41: 90 MHz	2541 (508200)		N/A		2644.98 (528996)	
NR Band n41: 100 MHz	2546.01 (509202)		2592.99 (518598)		2640 (528000)	
NR Band n77 DoD: 10 MHz	3455.01 (630334)		3500.01 (633334)		3544.98 (636332)	
NR Band n77 DoD: 15 MHz	3457.5 (630500)		3500.01 (633334)		3542.49 (636166)	
NR Band n77 DoD: 20 MHz	3460.02 (630668)		3500.01 (633334)		3540 (636000)	
NR Band n77 DoD: 30 MHz	3465 (631000)		3500.01 (633334)		3534.99 (635666)	
NR Band n77 DoD: 40 MHz	3470.01 (631334)		N/A		3529.98 (635332)	
NR Band n77 DoD: 50 MHz	3475.02 (631668)		N/A		3525 (635000)	
NR Band n77 DoD: 60 MHz	N/A		3500.01(633334)		N/A	
NR Band n77 DoD: 70 MHz	N/A		3500.01(633334)		N/A	
NR Band n77 DoD: 80 MHz	N/A		3500.01(633334)		N/A	
NR Band n77 DoD: 90 MHz	N/A		3500.01(633334)		N/A	
NR Band n77 DoD: 100 MHz	N/A		3500.01(633334)		N/A	
NR Band n77 C: 10 MHz	3705 (647000)	3759 (650600)	3813 (654200)	3867 (657800)	3921 (661400)	3975 (665000)
NR Band n77 C: 15 MHz	3707.52 (647168)	3760.5 (650700)	3813.51 (654234)	3866.49 (657766)	3919.5 (661300)	3972.48 (664832)
NR Band n77 C: 20 MHz	3710.01 (647334)	3762 (650800)	3813.99 (654266)	3866.01 (657734)	3918 (661200)	3969.99 (664666)
NR Band n77 C: 30 MHz	3715.02 (647668)	3765 (651000)	3815.01 (654334)	3864.99 (657666)	3915 (661000)	3964.98 (664332)
NR Band n77 C: 40 MHz	3720 (648000)	3768 (651200)	3816 (654400)	3864 (657600)	3912 (660800)	3960 (664000)
NR Band n77 C: 50 MHz	3725.01 (648334)	3782.49 (652166)	3840 (656000)		3897.51 (659834)	3954.99 (663666)
NR Band n77 C: 60 MHz	3730.02 (648668)	3803.34 (653556)	N/A	N/A	3876.66 (658444)	3949.98 (663332)
NR Band n77 C: 70 MHz	3735 (649000)	3804.99 (653666)	N/A		3875.01 (658334)	3945 (663000)
NR Band n77 C: 80 MHz	3740.01 (649334)	N/A	3840 (656000)		N/A	3939.99 (662666)
NR Band n77 C: 90 MHz	3745.02 (649668)	N/A	3840 (656000)		N/A	3934.98 (662332)
NR Band n77 C: 100 MHz	3750 (650000)	N/A	N/A	N/A	N/A	3930 (662000)
SCS for NR Band n71/n12/n14/n26/n5/n70/n66/n25/n2/n30/n7	15 kHz					
SCS for NR Band n41/n77 DoD/n77 C	30 kHz					
Modulations Supported in UL	DFT-s-OFDM: π/2 BPSK, QPSK, 16QAM, 64QAM, 256QAM CP-OFDM: QPSK, 16QAM, 64QAM, 256QAM					
A-MPR (Additional MPR) disabled for SAR Testing?	YES					
EN-DC Carrier Aggregation Possible Combinations	The technical description includes all the possible carrier aggregation combinations					
LTE Anchor Bands for NR Band n71	LTE Band 66/2/7/48					
LTE Anchor Bands for NR Band n12	LTE Band 66/2/30/48					
LTE Anchor Bands for NR Band n14	LTE Band 66/2/30					
LTE Anchor Bands for NR Band n26 (Cell)	N/A					
LTE Anchor Bands for NR Band n5 (Cell)	LTE Band 66/2/30/7/48					
LTE Anchor Bands for NR Band n70	N/A					
LTE Anchor Bands for NR Band n66 (AWS)	LTE Band 71/12/13/14/5/2/30/7/48					
LTE Anchor Bands for NR Band n25 (PCS)	LTE Band 12/66/48					
LTE Anchor Bands for NR Band n2 (PCS)	LTE Band 12/13/14/5/66					
LTE Anchor Bands for NR Band n30	LTE Band 12/14/5/66					
LTE Anchor Bands for NR Band n7	LTE Band 12/5/66					
LTE Anchor Bands for NR Band n41	LTE Band 26/4/66/2/25					
LTE Anchor Bands for NR Band n77 DoD	LTE Band 71/12/13/14/5/66/2/30/7/41					
LTE Anchor Bands for NR Band n77 C	LTE Band 71/12/13/14/5/66/2/30/7/41					

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/m^3)
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]

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:

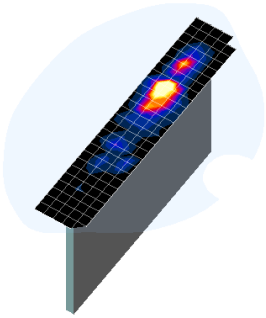

Figure 4-1
Sample SAR Area Scan

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.

Table 4-1
Area and Zoom Scan Resolutions per FCC KDB Publication 865664 D01v01r04*

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

*Also compliant to IEEE 1528-2013 Table 6

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 ε = 3 and loss tangent δ = 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 D01v06 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.

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.

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

HUMAN EXPOSURE LIMITS		
	UNCONTROLLED ENVIRONMENT *General Population* (W/kg) or (mW/g)	CONTROLLED ENVIRONMENT *Occupational* (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.

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 D01v06, 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 a 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.

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.

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 ½ 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 to 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.

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.

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 D01v06 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.

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 (Plimit, maximum tune up output power Pmax).

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	18.62	18.59	18.55	14.65	14.75	14.72	14.40	14.51	14.45	-
6	HSDPA	Subtest 1	18.30	18.22	18.20	14.22	14.17	14.20	13.93	14.01	13.98	0
6		Subtest 2	18.32	18.22	18.23	14.21	14.20	14.19	13.91	13.96	13.92	0
6		Subtest 3	17.80	17.72	17.71	13.71	13.73	13.68	13.41	13.44	13.39	0.5
6		Subtest 4	17.81	17.73	17.70	13.73	13.72	13.70	13.40	13.45	13.40	0.5
6	HSUPA	Subtest 1	18.20	18.13	18.12	14.24	14.20	14.22	13.92	14.00	13.94	0
6		Subtest 2	16.19	16.12	16.11	12.23	12.21	12.20	11.93	11.98	11.94	2
6		Subtest 3	17.21	17.12	17.10	13.22	13.21	13.19	12.91	13.00	12.96	1
6		Subtest 4	16.22	16.11	16.12	12.21	12.19	12.18	11.92	11.97	11.93	2
6		Subtest 5	18.21	18.16	18.13	14.23	14.20	14.20	13.93	13.99	13.95	0
8	DC-HSDPA	Subtest 1	18.21	18.12	18.14	14.22	14.19	14.18	13.94	14.02	13.97	0
8		Subtest 2	18.22	18.14	18.10	14.22	14.20	14.19	13.93	13.96	13.91	0
8		Subtest 3	17.69	17.60	17.62	13.72	13.69	13.67	13.44	13.48	13.40	0.5
8		Subtest 4	17.68	17.61	17.60	13.70	13.67	13.68	13.43	13.47	13.41	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	13.80	13.84	13.74	13.15	13.29	13.27	-
6	HSDPA	Subtest 1	13.15	13.19	13.07	12.43	12.59	12.53	0
6		Subtest 2	13.18	13.20	13.07	12.42	12.58	12.49	0
6		Subtest 3	12.68	12.70	12.56	11.93	12.07	11.98	0.5
6		Subtest 4	12.66	12.69	12.55	11.91	12.03	11.97	0.5
6	HSUPA	Subtest 1	13.15	13.20	13.09	12.44	12.60	12.50	0
6		Subtest 2	11.17	11.21	11.10	10.45	10.58	10.52	2
6		Subtest 3	12.18	12.23	12.13	11.47	11.60	11.53	1
6		Subtest 4	11.18	11.22	11.11	10.45	10.59	10.45	2
6		Subtest 5	13.12	13.15	13.07	12.45	12.62	12.68	0
8	DC-HSDPA	Subtest 1	13.17	13.18	13.08	12.44	12.58	12.55	0
8		Subtest 2	13.14	13.20	13.07	12.41	12.55	12.48	0
8		Subtest 3	12.65	12.68	12.58	11.91	12.06	12.01	0.5
8		Subtest 4	12.66	12.68	12.57	11.91	12.04	11.99	0.5

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	18.05	18.06	18.02	14.48	14.29	14.32	15.91	16.04	15.86	-
6	HSDPA	Subtest 1	18.29	18.31	18.21	14.76	14.76	14.77	15.68	15.79	15.64	0
6		Subtest 2	18.30	18.32	18.22	14.72	14.75	14.79	15.65	15.77	15.60	0
6		Subtest 3	17.79	17.80	17.72	14.24	14.27	14.28	15.17	15.27	15.10	0.5
6		Subtest 4	17.77	17.80	17.70	14.23	14.23	14.27	15.15	15.30	15.11	0.5
6	HSUPA	Subtest 1	18.34	18.35	18.25	14.78	14.81	14.82	15.71	15.82	15.65	0
6		Subtest 2	16.33	16.37	16.26	12.78	12.81	12.85	13.70	13.84	13.66	2
6		Subtest 3	17.32	17.35	17.26	13.78	13.77	13.79	14.70	14.81	14.64	1
6		Subtest 4	16.32	16.34	16.25	12.78	12.78	12.80	13.68	13.80	13.61	2
6		Subtest 5	18.32	18.31	18.26	14.78	14.80	14.83	15.69	15.80	15.65	0
8	DC-HSDPA	Subtest 1	18.34	18.38	18.31	14.85	14.88	14.87	15.53	15.65	15.50	0
8		Subtest 2	18.34	18.38	18.32	14.83	14.87	14.89	15.50	15.62	15.44	0
8		Subtest 3	17.85	17.90	17.80	14.36	14.36	14.38	15.01	15.15	14.92	0.5
8		Subtest 4	17.85	17.88	17.79	14.34	14.34	14.37	15.01	15.11	14.95	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	12.39	12.44	12.28	12.18	12.26	12.15	-
6	HSDPA	Subtest 1	11.61	11.65	11.46	11.42	11.53	11.38	0
6		Subtest 2	11.64	11.63	11.47	11.43	11.50	11.33	0
6		Subtest 3	11.10	11.13	10.97	10.95	11.00	10.84	0.5
6		Subtest 4	11.13	11.14	10.96	10.91	10.99	10.84	0.5
6	HSUPA	Subtest 1	11.63	11.65	11.48	11.45	11.51	11.34	0
6		Subtest 2	9.61	9.66	9.47	9.48	9.53	9.38	2
6		Subtest 3	10.62	10.65	10.49	10.44	10.52	10.39	1
6		Subtest 4	9.63	9.64	9.48	9.43	9.51	9.38	2
6		Subtest 5	11.61	11.66	11.50	11.47	11.54	11.36	0
8	DC-HSDPA	Subtest 1	11.59	11.62	11.47	11.43	11.53	11.40	0
8		Subtest 2	11.62	11.63	11.49	11.42	11.49	11.36	0
8		Subtest 3	11.10	11.14	10.97	10.95	11.00	10.85	0.5
8		Subtest 4	11.11	11.11	10.98	10.92	10.98	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

Figure 8-1
Power Measurement Setup

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 I.

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 Conducted Powers

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 133297 (680.5 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
QPSK	1	0	19.83	0	0
	1	50	**19.91**		0
	1	99	19.89		0
	50	0	19.70	0-1	0
	50	25	**19.83**		0
	50	50	19.79		0
	100	0	19.82		0
16QAM	1	0	20.13	0-1	0
	1	50	20.20		0
	1	99	20.20		0
	50	0	20.05	0-2	0
	50	25	20.00		0
	50	50	20.05		0
	100	0	20.00		0
64QAM	1	0	19.99	0-2	0
	1	50	19.99		0
	1	99	20.02		0
	50	0	19.78	0-3	0.1
	50	25	19.75		0.1
	50	50	19.73		0.1
	100	0	19.77		0.1
256QAM	1	0	17.73	0-5	2.1
	1	50	17.93		2.1
	1	99	17.92		2.1
	50	0	17.85		2.1
	50	25	17.95		2.1
	50	50	17.96		2.1
	100	0	17.92		2.1

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 133297 (680.5 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
QPSK	1	0	20.73	0	0
	1	50	20.74		0
	1	99	**20.83**		0
	50	0	20.69	0-1	0
	50	25	20.78		0
	50	50	**20.80**		0
	100	0	20.79		0
16QAM	1	0	20.37	0-1	0
	1	50	20.63		0
	1	99	20.59		0
	50	0	20.19	0-2	0
	50	25	20.28		0
	50	50	20.27		0
	100	0	20.25		0
64QAM	1	0	20.29	0-2	0
	1	50	20.46		0
	1	99	20.33		0
	50	0	20.11	0-3	0
	50	25	20.26		0
	50	50	20.23		0
	100	0	20.21		0
256QAM	1	0	19.85	0-5	0.8
	1	50	20.12		0.8
	1	99	20.16		0.8
	50	0	20.10		0.8
	50	25	20.24		0.8
	50	50	20.27		0.8
	100	0	20.22		0.8

8.2.1 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** **23095** **(707.5 MHz)** **Conducted Power [dBm]**	**MPR Allowed per 3GPP [dB]**	**MPR [dB]**
QPSK	1	0	**19.26**	0	0
	1	25	19.03		0
	1	49	19.02		0
	25	0	19.09	0-1	0
	25	12	**19.20**		0
	25	25	19.13		0
	50	0	19.16		0
16QAM	1	0	19.07	0-1	0
	1	25	18.99		0
	1	49	19.04		0
	25	0	18.88	0-2	0
	25	12	18.82		0
	25	25	18.90		0
	50	0	18.95		0
64QAM	1	0	18.88	0-2	0
	1	25	18.96		0
	1	49	18.92		0
	25	0	18.88	0-3	0
	25	12	18.77		0
	25	25	18.75		0
	50	0	18.77		0
256QAM	1	0	17.85	0-5	1.6
	1	25	17.95		1.6
	1	49	17.91		1.6
	25	0	17.70		1.6
	25	12	17.78		1.6
	25	25	17.77		1.6
	50	0	17.76		1.6

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 23095 (707.5 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
QPSK	1	0	18.24	0	0
	1	25	18.26		0
	1	49	**18.35**		0
	25	0	18.32	0-1	0
	25	12	**18.39**		0
	25	25	18.36		0
	50	0	18.32		0
16QAM	1	0	18.65	0-1	0
	1	25	18.66		0
	1	49	18.70		0
	25	0	18.34	0-2	0
	25	12	18.42		0
	25	25	18.38		0
	50	0	18.39		0
64QAM	1	0	18.39	0-2	0
	1	25	18.43		0
	1	49	18.42		0
	25	0	18.32	0-3	0
	25	12	18.40		0
	25	25	18.37		0
	50	0	18.41		0
256QAM	1	0	18.30	0-5	0
	1	25	18.50		0
	1	49	18.56		0
	25	0	18.33		0
	25	12	18.41		0
	25	25	18.36		0
	50	0	18.41		0

8.2.2 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 23230 (782.0 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
QPSK	1	0	19.72	0	0
	1	25	19.66		0
	1	49	**19.73**		0
	25	0	19.74	0-1	0
	25	12	**19.77**		0
	25	25	19.65		0
	50	0	19.70		0
16QAM	1	0	20.06	0-1	0
	1	25	19.91		0
	1	49	19.95		0
	25	0	19.50	0-2	0
	25	12	19.42		0
	25	25	19.56		0
	50	0	19.58		0
64QAM	1	0	19.55	0-2	0
	1	25	19.56		0
	1	49	19.42		0
	25	0	19.52	0-3	0.1
	25	12	19.47		0.1
	25	25	19.39		0.1
	50	0	19.52		0.1
256QAM	1	0	18.00	0-5	2.1
	1	25	18.02		2.1
	1	49	17.91		2.1
	25	0	17.85		2.1
	25	12	17.81		2.1
	25	25	17.79		2.1
	50	0	17.87		2.1

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 23230 (782.0 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
QPSK	1	0	**19.39**	0	0
	1	25	19.34		0
	1	49	19.24		0
	25	0	19.37	0-1	0
	25	12	19.36		0
	25	25	**19.40**		0
	50	0	19.34		0
16QAM	1	0	19.62	0-1	0
	1	25	19.53		0
	1	49	19.53		0
	25	0	19.23	0-2	0
	25	12	19.20		0
	25	25	19.23		0
	50	0	19.26		0
64QAM	1	0	19.41	0-2	0
	1	25	19.42		0
	1	49	19.31		0
	25	0	19.20	0-3	0
	25	12	19.17		0
	25	25	19.19		0
	50	0	19.21		0
256QAM	1	0	19.23	0-5	0
	1	25	19.38		0
	1	49	19.25		0
	25	0	19.22		0
	25	12	19.23		0
	25	25	19.26		0
	50	0	19.23		0

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** **23330** **(793.0 MHz)** **Conducted Power [dBm]**	**MPR Allowed per 3GPP [dB]**	**MPR [dB]**
QPSK	1	0	**19.73**	0	0
	1	25	19.54		0
	1	49	19.65		0
	25	0	19.70	0-1	0
	25	12	**19.76**		0
	25	25	19.66		0
	50	0	19.60		0
16QAM	1	0	19.88	0-1	0
	1	25	20.00		0
	1	49	19.85		0
	25	0	19.66	0-2	0
	25	12	19.68		0
	25	25	19.65		0
	50	0	19.62		0
64QAM	1	0	19.71	0-2	0
	1	25	19.63		0
	1	49	19.61		0
	25	0	19.55	0-3	0.1
	25	12	19.55		0.1
	25	25	19.52		0.1
	50	0	19.55		0.1
256QAM	1	0	17.77	0-5	2.1
	1	25	17.91		2.1
	1	49	17.85		2.1
	25	0	17.78		2.1
	25	12	17.79		2.1
	25	25	17.75		2.1
	50	0	17.72		2.1

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 23330 (793.0 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
QPSK	1	0	**19.34**	0	0
	1	25	19.28		0
	1	49	19.19		0
	25	0	19.30	0-1	0
	25	12	**19.38**		0
	25	25	19.29		0
	50	0	19.31		0
16QAM	1	0	19.63	0-1	0
	1	25	19.54		0
	1	49	19.46		0
	25	0	19.22	0-2	0
	25	12	19.28		0
	25	25	19.22		0
	50	0	19.24		0
64QAM	1	0	19.42	0-2	0
	1	25	19.40		0
	1	49	19.27		0
	25	0	19.21	0-3	0
	25	12	19.31		0
	25	25	19.19		0
	50	0	19.24		0
256QAM	1	0	19.26	0-5	0
	1	25	19.30		0
	1	49	19.16		0
	25	0	19.16		0
	25	12	19.24		0
	25	25	19.16		0
	50	0	19.20		0

8.2.3 LTE Band 26

Table 8-13
LTE Band 26 Measured P_{limit} Antenna 1 - 10 MHz Bandwidth

LTE Band 26 (Cell) 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 26740 (819.0 MHz)	Mid Channel 26865 (831.5 MHz)	High Channel 26990 (844.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	18.65	18.57	**18.72**	0	0
	1	25	18.63	18.53	18.70		0
	1	49	18.61	18.55	18.66		0
	25	0	18.69	18.52	18.62	0-1	0
	25	12	18.67	18.58	18.60		0
	25	25	18.70	18.59	**18.76**		0
	50	0	18.64	18.56	18.61		0
16QAM	1	0	18.68	18.66	18.74	0-1	0
	1	25	18.66	18.60	18.73		0
	1	49	18.62	18.71	18.67		0
	25	0	18.54	18.38	18.43	0-2	0
	25	12	18.51	18.41	18.45		0
	25	25	18.49	18.40	18.47		0
	50	0	18.50	18.41	18.42		0
64QAM	1	0	18.58	18.42	18.40	0-2	0
	1	25	18.56	18.35	18.50		0
	1	49	18.50	18.42	18.45		0
	25	0	18.42	18.22	18.27	0-3	0
	25	12	18.40	18.21	18.26		0
	25	25	18.36	18.19	18.30		0
	50	0	18.40	18.21	18.23		0
256QAM	1	0	17.93	17.91	17.77	0-5	1.1
	1	25	17.91	17.87	17.90		1.1
	1	49	17.82	17.85	17.85		1.1
	25	0	17.75	17.65	17.71		1.1
	25	12	17.73	17.69	17.71		1.1
	25	25	17.70	17.68	17.73		1.1
	50	0	17.75	17.65	17.67		1.1

Table 8-14
LTE Band 26 Measured P_{limit} Antenna 3 - 10 MHz Bandwidth

LTE Band 26 (Cell) 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 26740 (819.0 MHz)	Mid Channel 26865 (831.5 MHz)	High Channel 26990 (844.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	**18.20**	18.17	18.10	0	0
	1	25	18.10	18.16	18.05		0
	1	49	18.12	18.11	18.01		0
	25	0	18.23	18.19	18.17	0-1	0
	25	12	18.20	18.23	18.18		0
	25	25	**18.24**	18.22	18.19		0
	50	0	18.18	18.17	18.16		0
16QAM	1	0	18.41	18.52	18.55	0-1	0
	1	25	18.33	18.47	18.49		0
	1	49	18.32	18.46	18.51		0
	25	0	18.28	18.21	18.24	0-2	0
	25	12	18.25	18.26	18.23		0
	25	25	18.23	18.25	18.26		0
	50	0	18.23	18.28	18.23		0
64QAM	1	0	18.43	18.45	18.45	0-2	0
	1	25	18.40	18.44	18.42		0
	1	49	18.27	18.43	18.35		0
	25	0	18.29	18.21	18.25	0-3	0
	25	12	18.27	18.28	18.22		0
	25	25	18.23	18.26	18.28		0
	50	0	18.26	18.27	18.24		0
256QAM	1	0	18.41	18.29	18.33	0-5	0
	1	25	18.37	18.38	18.29		0
	1	49	18.31	18.35	18.20		0
	25	0	18.26	18.21	18.25		0
	25	12	18.23	18.27	18.24		0
	25	25	18.23	18.23	18.26		0
	50	0	18.26	18.27	18.22		0

8.2.4 LTE Band 5

Table 8-15
LTE Band 5 Measured P_{limit} Antenna 1 - 10 MHz Bandwidth

LTE Band 5 (Cell) 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel 20525 (836.5 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
QPSK	1	0	18.51	0	0
	1	25	18.47		0
	1	49	**18.56**		0
	25	0	18.42	0-1	0
	25	12	18.52		0
	25	25	**18.58**		0
	50	0	18.49		0
16QAM	1	0	18.70	0-1	0
	1	25	18.61		0
	1	49	18.77		0
	25	0	18.47	0-2	0
	25	12	18.55		0
	25	25	18.59		0
	50	0	18.52		0
64QAM	1	0	18.49	0-2	0
	1	25	18.50		0
	1	49	18.65		0
	25	0	18.37	0-3	0
	25	12	18.45		0
	25	25	18.45		0
	50	0	18.43		0
256QAM	1	0	17.96	0-5	1.1
	1	25	18.03		1.1
	1	49	18.12		1.1
	25	0	17.91		1.1
	25	12	17.98		1.1
	25	25	17.99		1.1
	50	0	17.98		1.1

	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	18.25	18.58

Table 8-16
LTE Band 5 Measured P_{limit} Antenna 3 - 10 MHz Bandwidth

LTE Band 5 (Cell) 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel 20525 (836.5 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
QPSK	1	0	18.03	0	0
	1	25	18.16		0
	1	49	**18.21**		0
	25	0	18.20	0-1	0
	25	12	**18.25**		0
	25	25	18.24		0
	50	0	18.18		0
16QAM	1	0	18.53	0-1	0
	1	25	18.54		0
	1	49	18.56		0
	25	0	18.31	0-2	0
	25	12	18.38		0
	25	25	18.37		0
	50	0	18.25		0
64QAM	1	0	18.38	0-2	0
	1	25	18.43		0
	1	49	18.41		0
	25	0	18.29	0-3	0
	25	12	18.37		0
	25	25	18.34		0
	50	0	18.26		0
256QAM	1	0	18.27	0-5	0
	1	25	18.43		0
	1	49	18.35		0
	25	0	18.26		0
	25	12	18.38		0
	25	25	18.36		0
	50	0	18.25		0

	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	50	0	LTE B5	5	20453	829.3	2453	874.3	QPSK	25	0	18.03	18.18

8.2.5 LTE Band 66

Table 8-17
LTE Band 66 Measured P_{limit} Antenna 1 - 20 MHz Bandwidth

LTE Band 66 (AWS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 132072 (1720.0 MHz)	Mid Channel 132322 (1745.0 MHz)	High Channel 132572 (1770.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	14.62	14.62	14.65	0	0
	1	50	14.65	**14.83**	14.74		0
	1	99	14.59	14.67	14.69		0
	50	0	14.69	14.65	14.41	0-1	0
	50	25	14.73	**14.74**	14.50		0
	50	50	14.69	14.62	14.43		0
	100	0	14.71	14.64	14.38		0
16QAM	1	0	14.87	14.94	14.73	0-1	0
	1	50	14.84	14.98	14.68		0
	1	99	14.86	14.85	14.65		0
	50	0	14.64	14.65	14.57	0-2	0
	50	25	14.65	14.66	14.59		0
	50	50	14.62	14.64	14.59		0
	100	0	14.63	14.62	14.53		0
64QAM	1	0	14.83	14.88	14.70	0-2	0
	1	50	14.89	15.01	14.75		0
	1	99	14.81	14.83	14.65		0
	50	0	14.63	14.65	14.58	0-3	0
	50	25	14.66	14.66	14.59		0
	50	50	14.65	14.63	14.60		0
	100	0	14.61	14.63	14.53		0
256QAM	1	0	14.86	14.92	14.67	0-5	0
	1	50	14.83	14.95	14.70		0
	1	99	14.84	14.97	14.66		0
	50	0	14.65	14.67	14.54		0
	50	25	14.67	14.68	14.57		0
	50	50	14.64	14.64	14.61		0
	100	0	14.62	14.65	14.55		0

Table 8-18
LTE Band 66 Measured P_{limit} Antenna 2b - 20 MHz Bandwidth

LTE Band 66 (AWS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 132072 (1720.0 MHz)	Mid Channel 132322 (1745.0 MHz)	High Channel 132572 (1770.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	14.24	14.38	13.99	0	0
	1	50	14.30	**14.48**	14.08		0
	1	99	14.27	14.32	13.95		0
	50	0	14.31	14.36	14.24	0-1	0
	50	25	14.25	**14.41**	14.29		0
	50	50	14.24	14.39	14.20		0
	100	0	14.23	14.34	14.22		0
16QAM	1	0	14.17	14.22	14.17	0-1	0
	1	50	14.32	14.29	14.33		0
	1	99	14.23	14.17	13.98		0
	50	0	14.02	14.09	13.98	0-2	0
	50	25	14.00	14.11	13.99		0
	50	50	14.01	14.03	13.86		0
	100	0	14.00	14.11	13.96		0
64QAM	1	0	13.97	14.10	14.13	0-2	0
	1	50	14.09	14.14	14.08		0
	1	99	14.08	14.10	14.02		0
	50	0	13.84	13.97	13.93	0-3	0
	50	25	13.88	13.99	13.94		0
	50	50	13.89	13.96	13.89		0
	100	0	13.86	13.96	13.90		0
256QAM	1	0	14.05	14.07	14.12	0-5	0
	1	50	14.06	14.19	14.10		0
	1	99	13.99	14.06	14.06		0
	50	0	13.84	13.97	13.92		0
	50	25	13.90	14.01	13.92		0
	50	50	13.89	13.97	13.90		0
	100	0	13.88	13.97	13.90		0

Table 8-19
LTE Band 66 Measured P_{limit} Antenna 3 - 20 MHz Bandwidth

LTE Band 66 (AWS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 132072 (1720.0 MHz)	Mid Channel 132322 (1745.0 MHz)	High Channel 132572 (1770.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	14.25	14.53	14.36	0	0
	1	50	14.39	**14.60**	14.45		0
	1	99	14.24	14.45	14.30		0
	50	0	14.35	14.37	14.35	0-1	0
	50	25	14.34	**14.39**	14.37		0
	50	50	14.31	14.38	14.38		0
	100	0	14.34	14.35	14.32		0
16QAM	1	0	14.62	14.72	14.50	0-1	0
	1	50	14.74	14.89	14.67		0
	1	99	14.64	14.74	14.51		0
	50	0	14.57	14.48	14.36	0-2	0
	50	25	14.58	14.47	14.38		0
	50	50	14.57	14.45	14.44		0
	100	0	14.56	14.44	14.36		0
64QAM	1	0	14.67	14.51	14.44	0-2	0
	1	50	14.81	14.67	14.75		0
	1	99	14.67	14.54	14.56		0
	50	0	14.54	14.43	14.33	0-3	0
	50	25	14.57	14.45	14.36		0
	50	50	14.54	14.45	14.41		0
	100	0	14.53	14.44	14.34		0
256QAM	1	0	14.64	14.50	14.45	0-5	0
	1	50	14.75	14.60	14.66		0
	1	99	14.68	14.60	14.60		0
	50	0	14.54	14.44	14.34		0
	50	25	14.56	14.47	14.35		0
	50	50	14.55	14.44	14.39		0
	100	0	14.55	14.43	14.35		0

Table 8-20
LTE Band 66 Measured P_{limit} Antenna 4b - 20 MHz Bandwidth

LTE Band 66 (AWS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 132072 (1720.0 MHz)	Mid Channel 132322 (1745.0 MHz)	High Channel 132572 (1770.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	12.42	12.57	12.58	0	0
	1	50	12.49	**12.67**	12.65		0
	1	99	12.40	12.57	12.60		0
	50	0	12.62	12.63	12.50	0-1	0
	50	25	12.66	**12.68**	12.54		0
	50	50	12.56	12.61	12.53		0
	100	0	12.57	12.60	12.48		0
16QAM	1	0	12.45	12.56	12.58	0-1	0
	1	50	12.57	12.64	12.51		0
	1	99	12.54	12.49	12.23		0
	50	0	12.47	12.40	12.24	0-2	0
	50	25	12.49	12.39	12.22		0
	50	50	12.40	12.36	12.12		0
	100	0	12.48	12.37	12.19		0
64QAM	1	0	12.57	12.56	12.45	0-2	0
	1	50	12.71	12.68	12.43		0
	1	99	12.55	12.39	12.25		0
	50	0	12.43	12.40	12.28	0-3	0
	50	25	12.46	12.40	12.25		0
	50	50	12.37	12.35	12.16		0
	100	0	12.44	12.37	12.22		0
256QAM	1	0	12.63	12.46	12.46	0-5	0
	1	50	12.65	12.49	12.47		0
	1	99	12.50	12.35	12.19		0
	50	0	12.42	12.41	12.25		0
	50	25	12.45	12.38	12.23		0
	50	50	12.36	12.36	12.16		0
	100	0	12.42	12.36	12.20		0

8.2.1 LTE Band 25

Table 8-21
LTE Band 25 Measured P_{limit} Antenna 1 - 20 MHz Bandwidth

LTE Band 25 (PCS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 26140 (1860.0 MHz)	Mid Channel 26365 (1882.5 MHz)	High Channel 26590 (1905.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	14.27	14.41	14.11	0	0
	1	50	14.33	**14.42**	14.22		0
	1	99	14.28	14.39	14.16		0
	50	0	14.35	14.36	14.39	0-1	0
	50	25	14.42	**14.46**	14.45		0
	50	50	14.40	14.41	14.44		0
	100	0	14.38	14.41	14.20		0
16QAM	1	0	14.50	14.78	14.75	0-1	0
	1	50	14.74	14.86	14.81		0
	1	99	14.54	14.71	14.64		0
	50	0	14.48	14.57	14.54	0-2	0
	50	25	14.55	14.61	14.52		0
	50	50	14.55	14.60	14.51		0
	100	0	14.51	14.50	14.52		0
64QAM	1	0	14.48	14.44	14.54	0-2	0
	1	50	14.61	14.53	14.66		0
	1	99	14.46	14.43	14.49		0
	50	0	14.34	14.39	14.41	0-3	0
	50	25	14.41	14.46	14.38		0
	50	50	14.40	14.44	14.46		0
	100	0	14.40	14.45	14.39		0
256QAM	1	0	14.50	14.56	14.47	0-5	0
	1	50	14.57	14.56	14.56		0
	1	99	14.52	14.51	14.55		0
	50	0	14.33	14.38	14.39		0
	50	25	14.43	14.46	14.40		0
	50	50	14.39	14.46	14.45		0
	100	0	14.40	14.45	14.39		0

Table 8-22
LTE Band 25 Measured P_{limit} Antenna 2b - 20 MHz Bandwidth

LTE Band 25 (PCS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 26140 (1860.0 MHz)	Mid Channel 26365 (1882.5 MHz)	High Channel 26590 (1905.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	13.30	13.31	**13.43**	0	0
	1	50	13.22	13.27	13.31		0
	1	99	13.25	13.24	13.25		0
	50	0	13.30	13.29	13.33	0-1	0
	50	25	13.28	13.33	13.32		0
	50	50	13.31	13.34	**13.36**		0
	100	0	13.28	13.25	13.33		0
16QAM	1	0	13.05	13.34	13.30	0-1	0
	1	50	13.16	13.40	13.41		0
	1	99	13.07	13.20	13.21		0
	50	0	13.00	13.09	13.06	0-2	0
	50	25	13.09	13.14	13.05		0
	50	50	13.08	13.13	13.05		0
	100	0	13.05	13.04	13.06		0
64QAM	1	0	13.06	13.22	13.14	0-2	0
	1	50	13.24	13.39	13.33		0
	1	99	13.16	13.14	13.07		0
	50	0	13.01	13.06	13.08	0-3	0
	50	25	13.09	13.14	13.07		0
	50	50	13.08	13.10	13.06		0
	100	0	13.06	13.06	13.04		0
256QAM	1	0	13.08	13.10	13.21	0-5	0
	1	50	13.16	13.17	13.00		0
	1	99	13.19	13.03	12.98		0
	50	0	12.87	12.99	12.97		0
	50	25	12.95	13.07	12.97		0
	50	50	12.93	13.02	12.96		0
	100	0	12.93	12.95	12.99		0

Table 8-23
LTE Band 25 Measured P_{limit} Antenna 3 - 20 MHz Bandwidth

LTE Band 25 (PCS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 26140 (1860.0 MHz)	Mid Channel 26365 (1882.5 MHz)	High Channel 26590 (1905.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	15.44	15.84	15.77	0	0
	1	50	15.50	**15.94**	15.90		0
	1	99	15.43	15.83	15.85		0
	50	0	15.94	15.96	15.86	0-1	0
	50	25	**16.00**	15.97	15.96		0
	50	50	15.95	15.94	15.94		0
	100	0	15.92	15.92	15.93		0
16QAM	1	0	15.16	15.51	15.54	0-1	0
	1	50	15.37	15.60	15.67		0
	1	99	15.16	15.32	15.43		0
	50	0	15.16	15.25	15.24	0-2	0
	50	25	15.18	15.31	15.20		0
	50	50	15.24	15.27	15.25		0
	100	0	15.18	15.28	15.21		0
64QAM	1	0	15.21	15.53	15.47	0-2	0
	1	50	15.42	15.89	15.86		0
	1	99	15.16	15.39	15.41		0
	50	0	15.15	15.25	15.25	0-3	0
	50	25	15.22	15.29	15.22		0
	50	50	15.22	15.29	15.28		0
	100	0	15.18	15.28	15.21		0
256QAM	1	0	15.20	15.44	15.56	0-5	0
	1	50	15.29	15.63	15.73		0
	1	99	15.20	15.46	15.51		0
	50	0	15.14	15.24	15.25		0
	50	25	15.19	15.27	15.20		0
	50	50	15.22	15.28	15.27		0
	100	0	15.17	15.27	15.17		0

Table 8-24
LTE Band 25 Measured P_{limit} Antenna 4b - 20 MHz Bandwidth

LTE Band 25 (PCS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 26140 (1860.0 MHz)	Mid Channel 26365 (1882.5 MHz)	High Channel 26590 (1905.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	12.13	12.37	12.35	0	0
	1	50	12.26	**12.51**	12.42		0
	1	99	12.19	12.35	12.28		0
	50	0	12.48	12.47	12.45	0-1	0
	50	25	12.51	**12.53**	12.48		0
	50	50	12.44	12.48	12.41		0
	100	0	12.49	12.46	12.43		0
16QAM	1	0	12.18	12.30	12.28	0-1	0
	1	50	12.27	12.42	12.26		0
	1	99	12.20	12.23	12.22		0
	50	0	12.15	12.18	12.05	0-2	0
	50	25	12.17	12.19	12.06		0
	50	50	12.20	12.13	12.05		0
	100	0	12.13	12.20	12.04		0
64QAM	1	0	12.20	12.32	12.16	0-2	0
	1	50	12.28	12.30	12.16		0
	1	99	12.26	12.13	12.02		0
	50	0	12.14	12.21	12.09	0-3	0
	50	25	12.17	12.22	12.06		0
	50	50	12.21	12.12	12.05		0
	100	0	12.15	12.20	12.07		0
256QAM	1	0	12.26	12.35	12.30	0-5	0
	1	50	12.21	12.34	12.14		0
	1	99	12.30	12.18	12.13		0
	50	0	12.12	12.22	12.07		0
	50	25	12.17	12.20	12.06		0
	50	50	12.16	12.07	12.00		0
	100	0	12.14	12.18	12.05		0

8.2.1 LTE Band 30

Table 8-25
LTE Band 30 Measured P_{limit} Antenna 1 - 10 MHz Bandwidth

LTE Band 30 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel 27710 (2310.0 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
QPSK	1	0	14.34	0	0
	1	25	**14.35**		0
	1	49	14.29		0
	25	0	14.26	0-1	0
	25	12	14.22		0
	25	25	**14.27**		0
	50	0	14.19		0
16QAM	1	0	14.56	0-1	0
	1	25	14.54		0
	1	49	14.41		0
	25	0	14.24	0-2	0
	25	12	14.21		0
	25	25	14.23		0
	50	0	14.16		0
64QAM	1	0	14.43	0-2	0
	1	25	14.41		0
	1	49	14.23		0
	25	0	14.18	0-3	0
	25	12	14.23		0
	25	25	14.12		0
	50	0	14.17		0
256QAM	1	0	14.27	0-5	0
	1	25	14.36		0
	1	49	14.17		0
	25	0	14.16		0
	25	12	14.27		0
	25	25	14.22		0
	50	0	14.14		0

Table 8-26
LTE Band 30 Measured P_{limit} Antenna 2b - 10 MHz Bandwidth

LTE Band 30 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel 27710 (2310.0 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
QPSK	1	0	12.71	0	0
	1	25	**12.80**		0
	1	49	12.75		0
	25	0	12.78	0-1	0
	25	12	**12.81**		0
	25	25	12.75		0
	50	0	12.78		0
16QAM	1	0	13.15	0-1	0
	1	25	13.13		0
	1	49	13.17		0
	25	0	12.84	0-2	0
	25	12	12.87		0
	25	25	12.82		0
	50	0	12.83		0
64QAM	1	0	12.96	0-2	0
	1	25	12.99		0
	1	49	12.96		0
	25	0	12.83	0-3	0
	25	12	12.87		0
	25	25	12.83		0
	50	0	12.81		0
256QAM	1	0	12.88	0-5	0
	1	25	12.94		0
	1	49	12.75		0
	25	0	12.80		0
	25	12	12.83		0
	25	25	12.79		0
	50	0	12.80		0

Table 8-27
LTE Band 30 Measured P_{limit} Antenna 3 - 10 MHz Bandwidth

LTE Band 30 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel 27710 (2310.0 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
QPSK	1	0	**17.57**	0	0
	1	25	17.46		0
	1	49	17.50		0
	25	0	17.46	0-1	0
	25	12	**17.49**		0
	25	25	17.48		0
	50	0	17.47		0
16QAM	1	0	17.77	0-1	0
	1	25	17.79		0
	1	49	17.86		0
	25	0	17.50	0-2	0
	25	12	17.56		0
	25	25	17.54		0
	50	0	17.50		0
64QAM	1	0	17.71	0-2	0
	1	25	17.66		0
	1	49	17.57		0
	25	0	17.52	0-3	0
	25	12	17.53		0
	25	25	17.53		0
	50	0	17.53		0
256QAM	1	0	17.58	0-5	0
	1	25	17.68		0
	1	49	17.46		0
	25	0	17.55		0
	25	12	17.55		0
	25	25	17.54		0
	50	0	17.51		0

Table 8-28
LTE Band 30 Measured P_{limit} Antenna 4b - 10 MHz Bandwidth

LTE Band 30 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel 27710 (2310.0 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
QPSK	1	0	**12.25**	0	0
	1	25	12.14		0
	1	49	12.13		0
	25	0	12.07	0-1	0
	25	12	**12.40**		0
	25	25	12.11		0
	50	0	12.20		0
16QAM	1	0	12.27	0-1	0
	1	25	12.29		0
	1	49	12.27		0
	25	0	11.95	0-2	0
	25	12	11.99		0
	25	25	11.97		0
	50	0	11.95		0
64QAM	1	0	12.08	0-2	0
	1	25	12.13		0
	1	49	12.04		0
	25	0	11.92	0-3	0
	25	12	11.95		0
	25	25	11.94		0
	50	0	11.90		0
256QAM	1	0	12.00	0-5	0
	1	25	12.09		0
	1	49	11.90		0
	25	0	11.92		0
	25	12	11.99		0
	25	25	11.91		0
	50	0	11.92		0

8.2.1 LTE Band 7

Table 8-29
LTE Band 7 Measured P_{limit} Antenna 1 - 20 MHz Bandwidth

LTE Band 7 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 20850 (2510.0 MHz)	Mid Channel 21100 (2535.0 MHz)	High Channel 21350 (2560.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	**13.01**	12.90	13.00	0	0
	1	50	12.94	12.84	12.93		0
	1	99	12.95	12.86	12.96		0
	50	0	**13.17**	12.98	13.08	0-1	0
	50	25	13.15	12.97	13.01		0
	50	50	13.05	12.93	12.98		0
	100	0	13.00	12.89	12.95		0
16QAM	1	0	13.19	13.18	13.12	0-1	0
	1	50	13.36	13.33	13.43		0
	1	99	13.27	13.04	13.00		0
	50	0	13.16	13.11	13.11	0-2	0
	50	25	13.21	13.08	13.10		0
	50	50	13.09	13.07	12.99		0
	100	0	13.06	13.02	13.04		0
64QAM	1	0	12.78	12.81	12.73	0-2	0
	1	50	12.86	12.74	12.81		0
	1	99	12.76	12.79	12.79		0
	50	0	12.73	12.71	12.68	0-3	0
	50	25	12.75	12.66	12.69		0
	50	50	12.66	12.66	12.62		0
	100	0	12.65	12.63	12.68		0
256QAM	1	0	12.85	12.67	12.77	0-5	0
	1	50	12.82	12.79	12.84		0
	1	99	12.91	12.78	12.79		0
	50	0	12.67	12.67	12.69		0
	50	25	12.64	12.70	12.74		0
	50	50	12.65	12.66	12.69		0
	100	0	12.61	12.69	12.71		0

	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	21100	2535.0	3100	2655.0	QPSK	1	0	LTE B7	20	20902	2515.2	2902	2635.2	QPSK	1	99	12.85	12.90

Table 8-30
LTE Band 7 Measured P_{limit} Antenna 2b - 20 MHz Bandwidth

LTE Band 7 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 20850 (2510.0 MHz)	Mid Channel 21100 (2535.0 MHz)	High Channel 21350 (2560.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	11.28	11.40	11.31	0	0
	1	50	11.43	**11.56**	11.41		0
	1	99	11.35	11.42	11.21		0
	50	0	11.46	**11.47**	11.46	0-1	0
	50	25	11.45	11.44	11.45		0
	50	50	11.38	11.41	11.36		0
	100	0	11.45	11.37	11.44		0
16QAM	1	0	11.61	11.52	11.45	0-1	0
	1	50	11.66	11.42	11.57		0
	1	99	11.65	11.39	11.41		0
	50	0	11.50	11.46	11.44	0-2	0
	50	25	11.51	11.51	11.51		0
	50	50	11.38	11.44	11.39		0
	100	0	11.49	11.41	11.45		0
64QAM	1	0	11.49	11.51	11.52	0-2	0
	1	50	11.61	11.58	11.58		0
	1	99	11.49	11.51	11.46		0
	50	0	11.43	11.45	11.45	0-3	0
	50	25	11.53	11.45	11.48		0
	50	50	11.38	11.43	11.41		0
	100	0	11.45	11.41	11.46		0
256QAM	1	0	11.69	11.68	11.48	0-5	0
	1	50	11.53	11.74	11.69		0
	1	99	11.60	11.67	11.50		0
	50	0	11.42	11.41	11.46		0
	50	25	11.53	11.53	11.48		0
	50	50	11.41	11.46	11.45		0
	100	0	11.43	11.43	11.43		0

	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	1	0	LTE B7	20	21152	2540.2	3152	2660.2	QPSK	1	99	11.58	11.31

Table 8-31
LTE Band 7 Measured P_{limit} Antenna 3 - 20 MHz Bandwidth

LTE Band 7 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 20850 (2510.0 MHz)	Mid Channel 21100 (2535.0 MHz)	High Channel 21350 (2560.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	14.36	14.63	14.71	0	0
	1	50	14.44	14.69	**14.76**		0
	1	99	14.45	14.73	14.72		0
	50	0	14.69	14.74	14.79	0-1	0
	50	25	14.70	14.73	**14.81**		0
	50	50	14.68	14.75	14.77		0
	100	0	14.70	14.72	14.74		0
16QAM	1	0	14.24	14.46	14.68	0-1	0
	1	50	14.48	14.61	14.74		0
	1	99	14.33	14.54	14.66		0
	50	0	14.29	14.32	14.36	0-2	0
	50	25	14.27	14.34	14.39		0
	50	50	14.26	14.32	14.41		0
	100	0	14.27	14.31	14.39		0
64QAM	1	0	14.33	14.30	14.36	0-2	0
	1	50	14.46	14.35	14.52		0
	1	99	14.41	14.31	14.52		0
	50	0	14.25	14.31	14.32	0-3	0
	50	25	14.28	14.31	14.40		0
	50	50	14.25	14.34	14.38		0
	100	0	14.25	14.32	14.39		0
256QAM	1	0	14.38	14.36	14.41	0-5	0
	1	50	14.37	14.41	14.46		0
	1	99	14.42	14.47	14.54		0
	50	0	14.21	14.28	14.31		0
	50	25	14.25	14.32	14.39		0
	50	50	14.27	14.33	14.43		0
	100	0	14.25	14.30	14.38		0

	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	14.76	14.79

Table 8-32
LTE Band 7 Measured P_{limit} Antenna 4b - 20 MHz Bandwidth

LTE Band 7 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 20850 (2510.0 MHz)	Mid Channel 21100 (2535.0 MHz)	High Channel 21350 (2560.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	11.76	12.00	11.89	0	0
	1	50	11.82	**12.11**	11.92		0
	1	99	11.80	12.06	11.88		0
	50	0	12.06	12.10	12.03	0-1	0
	50	25	12.03	**12.12**	12.02		0
	50	50	12.04	12.09	12.00		0
	100	0	12.04	12.09	12.00		0
16QAM	1	0	12.17	12.34	12.35	0-1	0
	1	50	12.21	12.45	12.34		0
	1	99	12.17	12.29	12.21		0
	50	0	12.16	12.18	12.11	0-2	0
	50	25	12.19	12.20	12.11		0
	50	50	12.12	12.13	12.02		0
	100	0	12.09	12.10	12.09		0
64QAM	1	0	12.15	12.20	12.19	0-2	0
	1	50	12.25	12.23	12.16		0
	1	99	12.17	12.18	12.12		0
	50	0	12.14	12.15	12.10	0-3	0
	50	25	12.14	12.16	12.06		0
	50	50	12.07	12.09	11.97		0
	100	0	12.07	12.06	12.07		0
256QAM	1	0	12.27	12.32	12.29	0-5	0
	1	50	12.29	12.22	12.22		0
	1	99	12.27	12.22	12.22		0
	50	0	12.12	12.14	12.06		0
	50	25	12.17	12.16	12.05		0
	50	50	12.09	12.11	11.98		0
	100	0	12.08	12.08	12.05		0

	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	11.68	11.82

8.2.1 LTE Band 41 PC3

Table 8-33
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 39750 (2506.0 MHz)	Low-Mid Channel 40185 (2549.5 MHz)	Mid Channel 40620 (2593.0 MHz)	Mid-High Channel 41055 (2636.5 MHz)	High Channel 41490 (2680.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]						
QPSK	1	0	14.80	15.16	14.66	14.53	15.06	0	0
	1	50	14.90	**15.25**	14.63	14.56	15.01		0
	1	99	14.85	15.08	14.63	14.55	15.14		0
	50	0	14.93	15.29	14.71	14.60	15.10	0-1	0
	50	25	14.95	**15.31**	14.73	14.62	15.16		0
	50	50	14.90	15.21	14.64	14.54	15.11		0
	100	0	14.94	14.95	14.96	14.59	14.93		0
16QAM	1	0	14.86	14.85	14.87	14.84	14.48	0-1	0
	1	50	14.96	14.93	14.85	14.72	14.52		0
	1	99	14.89	14.80	14.76	14.73	14.53		0
	50	0	14.89	14.93	14.88	14.74	14.56	0-2	0
	50	25	14.92	14.94	14.87	14.70	14.58		0
	50	50	14.85	14.88	14.83	14.66	14.56		0
	100	0	14.80	15.00	14.87	14.69	14.58		0
64QAM	1	0	14.82	14.75	14.77	14.64	14.45	0-2	0
	1	50	14.84	14.82	14.76	14.69	14.49		0
	1	99	14.89	14.78	14.62	14.61	14.54		0
	50	0	14.83	14.91	14.81	14.59	14.53	0-3	0
	50	25	14.80	14.87	14.79	14.57	14.57		0
	50	50	14.81	14.82	14.69	14.51	14.52		0
	100	0	14.77	14.84	14.78	14.57	14.56		0
256QAM	1	0	14.92	14.87	15.01	14.70	14.50	0-5	0
	1	50	14.85	14.90	14.84	14.51	14.55		0
	1	99	14.82	14.86	14.87	14.54	14.45		0
	50	0	14.91	14.94	14.88	14.72	14.55		0
	50	25	14.93	14.95	14.87	14.69	14.56		0
	50	50	14.84	14.86	14.82	14.65	14.57		0
	100	0	14.84	14.98	14.85	14.71	14.57		0

	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)	Target Power (dBm)
CA_41C	LTE B41	20	39750	2506.0	QPSK	50	50	LTE B41	20	39948	2525.8	QPSK	50	0	14.60	14.90	14.8

Table 8-34
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 39750 (2506.0 MHz)	Low-Mid Channel 40185 (2549.5 MHz)	Mid Channel 40620 (2593.0 MHz)	Mid-High Channel 41055 (2636.5 MHz)	High Channel 41490 (2680.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]						
QPSK	1	0	13.23	13.26	13.28	13.29	13.31	0	0
	1	50	13.21	13.30	13.24	13.27	13.34		0
	1	99	13.24	13.27	13.33	13.26	**13.45**		0
	50	0	13.37	13.40	13.35	13.38	13.42	0-1	0
	50	25	13.32	13.31	13.39	13.37	**13.48**		0
	50	50	13.33	13.34	13.29	13.35	13.35		0
	100	0	13.31	13.35	13.36	13.37	13.43		0
16QAM	1	0	13.01	13.07	13.41	13.15	13.24	0-1	0
	1	50	13.06	13.16	13.36	13.23	13.33		0
	1	99	13.08	13.05	13.25	13.12	13.28		0
	50	0	13.20	13.26	13.23	13.29	13.38	0-2	0
	50	25	13.24	13.27	13.24	13.31	13.44		0
	50	50	13.17	13.19	13.17	13.27	13.40		0
	100	0	13.19	13.25	13.18	13.20	13.37		0
64QAM	1	0	13.22	13.28	13.29	13.36	13.33	0-2	0
	1	50	13.29	13.33	13.27	13.38	13.39		0
	1	99	13.31	13.20	13.19	13.27	13.32		0
	50	0	13.34	13.42	13.35	13.33	13.41	0-3	0
	50	25	13.36	13.44	13.37	13.36	13.45		0
	50	50	13.30	13.39	13.34	13.29	13.40		0
	100	0	13.36	13.41	13.35	13.32	13.39		0
256QAM	1	0	13.33	13.45	13.28	13.31	13.24	0-5	0
	1	50	13.28	13.36	13.17	13.27	13.26		0
	1	99	13.21	13.23	13.22	13.23	13.30		0
	50	0	13.33	13.41	13.32	13.24	13.24		0
	50	25	13.27	13.37	13.35	13.25	13.28		0
	50	50	13.26	13.31	13.26	13.17	13.26		0
	100	0	13.24	13.30	13.28	13.23	13.24		0

	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	41055	2636.5	QPSK	50	0	LTE B41	20	40857	2616.7	QPSK	50	50	13.03	13.38

Table 8-35
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 39750 (2506.0 MHz)	Low-Mid Channel 40185 (2549.5 MHz)	Mid Channel 40620 (2593.0 MHz)	Mid-High Channel 41055 (2636.5 MHz)	High Channel 41490 (2680.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]						
QPSK	1	0	15.55	15.70	15.90	15.71	15.94	0	0
	1	50	15.65	15.80	15.70	15.77	16.01		0
	1	99	15.61	15.84	15.82	15.80	**16.15**		0
	50	0	15.76	15.77	15.78	15.37	15.89	0-1	0
	50	25	15.78	15.82	15.81	15.35	15.92		0
	50	50	15.77	15.80	15.77	15.38	**16.10**		0
	100	0	15.74	15.80	15.76	15.68	16.05		0
16QAM	1	0	16.07	16.28	16.17	15.94	16.62	0-1	0
	1	50	16.20	16.48	16.24	16.06	16.73		0
	1	99	16.05	16.29	16.12	16.04	16.62		0
	50	0	16.10	16.38	16.13	16.08	16.48	0-2	0
	50	25	16.09	16.39	16.13	16.02	16.57		0
	50	50	16.09	16.39	16.10	15.95	16.56		0
	100	0	16.08	16.39	16.12	15.96	16.56		0
64QAM	1	0	15.99	16.18	16.09	15.96	16.51	0-2	0
	1	50	16.12	16.21	16.17	15.95	16.56		0
	1	99	16.02	16.17	16.05	15.95	16.55		0
	50	0	16.05	16.35	16.09	15.92	16.46	0-3	0
	50	25	16.07	16.37	16.08	15.95	16.54		0
	50	50	16.07	16.35	16.07	16.07	16.53		0
	100	0	16.07	16.35	16.08	16.08	16.52		0
256QAM	1	0	16.14	16.36	16.13	15.98	16.49	0-5	0
	1	50	15.97	16.30	16.01	15.95	16.46		0
	1	99	16.12	16.37	16.12	15.87	16.58		0
	50	0	16.07	16.37	16.11	15.94	16.46		0
	50	25	16.08	16.35	16.09	16.03	16.55		0
	50	50	16.07	16.35	16.06	15.99	16.54		0
	100	0	16.09	16.34	16.08	16.01	16.54		0

		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)
SCC higher	CA_41C	LTE B41	20	41055	2636.5	QPSK	50	50	LTE B41	20	41253	2656.3	QPSK	50	0	15.91	15.38

Table 8-36
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	13.20	13.22	13.15	13.07	13.08	0	0
	1	50	**13.43**	13.37	13.23	13.04	13.17		0
	1	99	13.33	13.26	13.13	13.02	13.14		0
	50	0	13.38	13.37	13.25	13.03	13.16	0-1	0
	50	25	**13.51**	13.38	13.27	13.17	13.15		0
	50	50	13.40	13.29	13.23	13.10	13.15		0
	100	0	13.39	13.37	13.40	13.11	13.24		0
16QAM	1	0	13.54	13.64	13.72	13.42	13.56	0-1	0
	1	50	13.62	13.71	13.55	13.27	13.54		0
	1	99	13.54	13.75	13.55	13.35	13.60		0
	50	0	13.71	13.68	13.65	13.36	13.39	0-2	0
	50	25	13.73	13.71	13.63	13.44	13.38		0
	50	50	13.65	13.65	13.60	13.41	13.46		0
	100	0	13.71	13.71	13.61	13.47	13.37		0
64QAM	1	0	13.46	13.45	13.61	13.35	13.23	0-2	0
	1	50	13.51	13.70	13.69	13.55	13.24		0
	1	99	13.49	13.47	13.57	13.33	13.34		0
	50	0	13.66	13.67	13.63	13.31	13.24	0-3	0
	50	25	13.68	13.69	13.62	13.31	13.34		0
	50	50	13.65	13.61	13.59	13.36	13.33		0
	100	0	13.69	13.66	13.59	13.31	13.32		0
256QAM	1	0	13.70	13.72	13.55	13.36	13.22	0-5	0
	1	50	13.67	13.61	13.52	13.30	13.27		0
	1	99	13.67	13.60	13.40	13.35	13.34		0
	50	0	13.69	13.66	13.60	13.33	13.26		0
	50	25	13.68	13.67	13.60	13.32	13.33		0
	50	50	13.62	13.61	13.55	13.34	13.34		0
	100	0	13.68	13.68	13.58	13.25	13.33		0

	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	50	0	LTE B41	20	41292	2660.2	QPSK	50	50	13.30	13.16

8.2.1 LTE Band 41 PC2

Table 8-37
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	16.28	16.58	16.26	16.04	16.30	0	0											
	1	50	16.34	16.68	16.15	15.96	16.27		0											
	1	99	16.34	16.55	16.17	15.99	16.31		0											
	50	0	16.42	16.78	16.28	16.14	16.35	0-1	0											
	50	25	16.39	16.69	16.26	16.15	16.37		0											
	50	50	16.43	16.67	16.16	16.05	16.36		0											
	100	0	16.39	16.61	16.26	16.13	16.37		0											
	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 PC2	20	39750	2506.0	QPSK	50	50	LTE B41 PC2	20	39948	2525.8	QPSK	50	0	16.26	16.43				

Table 8-38
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	14.20	14.19	14.30	14.40	14.22	0	0											
	1	50	14.19	14.20	14.18	14.30	14.18		0											
	1	99	14.25	14.16	14.19	14.35	14.25		0											
	50	0	14.27	14.31	14.32	14.00	14.28	0-1	0											
	50	25	14.28	14.25	14.28	14.27	14.29		0											
	50	50	14.34	14.29	14.28	13.95	14.38		0											
	100	0	14.24	14.25	14.24	14.21	14.27		0											
		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)			
SCC lower	CA_41C	LTE B41 PC2	20	41055	2636.5	QPSK	50	0	LTE B41 PC2	20	40857	2616.7	QPSK	50	50	14.40	14.00			

Table 8-39
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	17.61	17.67	17.69	17.65	17.67	0	0											
	1	50	17.69	17.68	17.58	17.67	17.79		0											
	1	99	17.56	17.62	17.63	17.63	17.66		0											
	50	0	17.74	17.77	17.78	17.78	17.73	0-1	0											
	50	25	17.76	17.79	17.77	17.70	17.84		0											
	50	50	17.72	17.74	17.78	17.73	17.79		0											
	100	0	17.73	17.71	17.72	17.70	17.75		0											
	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)			
SCC higher	CA_41C	LTE B41 PC2	20	41055	2636.5	QPSK	50	50	LTE B41 PC2	20	41253	2656.3	QPSK	50	0	17.73	17.83			

Table 8-40
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	15.56	15.44	15.48	15.34	15.14	0	0
	1	50	15.66	15.58	15.42	15.25	15.15		0
	1	99	15.57	15.46	15.40	15.19	15.18		0
	50	0	15.62	15.61	15.56	15.24	15.19	0-1	0
	50	25	15.58	15.59	15.57	15.25	15.26		0
	50	50	15.55	15.60	15.51	15.20	15.21		0
	100	0	15.52	15.55	15.54	15.18	15.20		0

	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 PC2	20	41490	2680.0	QPSK	50	0	LTE B41 PC2	20	41292	2660.2	QPSK	50	50	15.47	15.19

8.2.1 LTE Band 48

Table 8-41
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	12.67	12.76	12.72	13.04	0	0
	1	50	12.77	12.86	12.80	**13.14**		0
	1	99	12.84	12.82	12.84	13.08		0
	50	0	12.83	12.80	12.85	13.12	0-1	0
	50	25	12.90	12.87	12.95	13.14		0
	50	50	12.95	12.85	13.00	**13.21**		0
	100	0	12.89	12.95	12.97	13.13		0
16QAM	1	0	12.68	12.69	12.75	13.02	0-1	0
	1	50	12.86	12.82	13.00	13.09		0
	1	99	12.86	12.78	12.86	13.03		0
	50	0	12.74	12.72	12.90	12.92	0-2	0
	50	25	12.80	12.84	12.93	13.01		0
	50	50	12.85	12.87	13.05	13.00		0
	100	0	12.82	12.83	12.91	13.00		0
64QAM	1	0	12.57	12.59	12.75	12.92	0-2	0
	1	50	12.80	12.66	12.89	12.93		0
	1	99	12.76	12.72	12.86	12.86		0
	50	0	12.76	12.72	12.87	12.92	0-3	0
	50	25	12.81	12.84	12.92	13.00		0
	50	50	12.85	12.89	13.02	12.98		0
	100	0	12.77	12.81	12.91	12.97		0
256QAM	1	0	12.70	12.54	12.77	12.86	0-5	0
	1	50	12.72	12.58	12.92	12.87		0
	1	99	12.84	12.85	12.93	12.88		0
	50	0	12.71	12.67	12.79	12.83		0
	50	25	12.77	12.74	12.92	12.85		0
	50	50	12.80	12.80	12.93	12.89		0
	100	0	12.76	12.75	12.89	12.83		0

	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_48C	LTE B48	20	55773	3603.3	QPSK	50	50	LTE B48	20	55971	3623.1	QPSK	50	0	13.25	12.85

Table 8-42
LTE Band 48 Measured P_{limit} Antenna 2a - 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	12.10	12.16	12.21	12.37	0	0
	1	50	12.15	12.28	12.35	**12.60**		0
	1	99	12.12	12.14	12.23	12.39		0
	50	0	12.51	12.34	12.31	12.51	0-1	0
	50	25	12.52	12.38	12.44	**12.61**		0
	50	50	12.44	12.28	12.43	12.58		0
	100	0	12.49	12.34	12.40	12.58		0
16QAM	1	0	12.36	12.38	12.31	12.49	0-1	0
	1	50	12.42	12.31	12.42	12.53		0
	1	99	12.39	12.31	12.41	12.49		0
	50	0	12.55	12.44	12.43	12.57	0-2	0
	50	25	12.57	12.48	12.59	12.66		0
	50	50	12.49	12.39	12.61	12.68		0
	100	0	12.57	12.48	12.55	12.66		0
64QAM	1	0	12.42	12.34	12.35	12.41	0-2	0
	1	50	12.50	12.33	12.49	12.56		0
	1	99	12.45	12.27	12.47	12.55		0
	50	0	12.54	12.48	12.46	12.56	0-3	0
	50	25	12.59	12.51	12.57	12.67		0
	50	50	12.52	12.44	12.59	12.66		0
	100	0	12.61	12.50	12.52	12.66		0
256QAM	1	0	12.49	12.53	12.42	12.61	0-5	0
	1	50	12.44	12.40	12.52	12.63		0
	1	99	12.57	12.40	12.55	12.62		0
	50	0	12.58	12.48	12.47	12.58		0
	50	25	12.61	12.53	12.58	12.68		0
	50	50	12.51	12.48	12.59	12.69		0
	100	0	12.58	12.51	12.56	12.69		0

	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_48C	LTE B48	20	55340	3560.0	QPSK	1	99	LTE B48	20	55538	3579.8	QPSK	1	0	12.08	12.12

Table 8-43
LTE Band 48 Measured P_{limit} Antenna 3 - 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	13.24	13.36	13.33	13.32	0	0
	1	50	13.47	13.49	**13.52**	13.48		0
	1	99	13.34	13.40	13.39	13.33		0
	50	0	13.45	13.44	13.46	13.46	0-1	0
	50	25	13.50	13.56	**13.58**	13.54		0
	50	50	13.52	13.57	13.56	13.52		0
	100	0	13.39	13.48	13.50	13.44		0
16QAM	1	0	13.15	12.57	13.15	12.97	0-1	0
	1	50	13.30	12.69	13.11	12.97		0
	1	99	13.21	12.63	13.10	12.79		0
	50	0	13.15	12.69	13.13	12.91	0-2	0
	50	25	13.17	12.80	13.14	12.91		0
	50	50	13.17	12.82	13.08	12.89		0
	100	0	13.16	12.81	13.15	12.87		0
64QAM	1	0	12.98	12.60	13.11	12.71	0-2	0
	1	50	13.08	12.76	13.11	12.84		0
	1	99	13.15	12.74	13.12	12.66		0
	50	0	13.13	12.69	13.13	12.92	0-3	0
	50	25	13.16	12.79	13.11	12.91		0
	50	50	13.18	12.81	13.08	12.89		0
	100	0	13.16	12.78	13.11	12.88		0
256QAM	1	0	13.29	12.62	13.11	12.96	0-5	0
	1	50	13.23	12.65	13.08	12.84		0
	1	99	13.45	12.66	13.16	12.85		0
	50	0	13.22	12.78	13.21	12.93		0
	50	25	13.25	12.82	13.21	12.90		0
	50	50	13.27	12.85	13.28	12.91		0
	100	0	13.25	12.82	13.21	12.91		0

	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_48C	LTE B48	20	56640	3690.0	QPSK	50	0	LTE B48	20	56442	3670.2	QPSK	50	50	13.37	13.46

Table 8-44
LTE Band 48 Measured P_{limit} Antenna 4b - 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	12.14	12.13	12.20	12.30	0	0
	1	50	12.19	12.19	12.29	**12.33**		0
	1	99	12.21	12.16	12.26	12.29		0
	50	0	12.24	12.25	12.24	12.34	0-1	0
	50	25	12.22	12.20	12.30	12.35		0
	50	50	12.24	12.22	12.39	**12.41**		0
	100	0	12.20	12.19	12.26	12.31		0
16QAM	1	0	12.11	12.01	12.04	12.22	0-1	0
	1	50	12.26	12.09	12.15	12.24		0
	1	99	12.24	11.99	12.09	12.18		0
	50	0	12.07	12.08	12.06	12.21	0-2	1
	50	25	12.07	12.08	12.17	12.27		1
	50	50	12.09	12.05	12.16	12.29		1
	100	0	12.07	12.03	12.14	12.21		1
64QAM	1	0	10.91	10.89	10.94	11.06	0-2	1
	1	50	11.07	11.02	11.10	11.18		1
	1	99	10.95	11.05	10.93	11.14		1
	50	0	11.09	11.07	11.02	11.23	0-3	2
	50	25	11.08	11.05	11.21	11.27		2
	50	50	11.10	11.06	11.20	11.28		2
	100	0	11.11	11.01	11.15	11.25		2
256QAM	1	0	8.79	8.74	8.77	8.93	0-5	4
	1	50	8.76	8.66	8.85	8.97		4
	1	99	8.65	8.78	8.87	9.02		4
	50	0	8.77	8.69	8.72	8.91		4
	50	25	8.76	8.72	8.89	8.96		4
	50	50	8.81	8.73	8.89	9.00		4
	100	0	8.73	8.71	8.86	8.92		4

	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_48C	LTE B48	20	56640	3690.0	QPSK	50	0	LTE B48	20	56442	3670.2	QPSK	50	50	12.43	12.34

Notes:

1. This device supports uplink carrier aggregation for LTE CA 7C, LTE CA 5B, LTE CA 66C, LTE CA 66B, 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.
2. 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.

Figure 8-2
Power Measurement Setup

8.3 NR Plimit 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 appendix I.

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 8-45
NR Band n71 Measured P_{Limit} Antenna 1 - 20 MHz Bandwidth

NR Band n71 20 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	136100 (680.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM π/2 BPSK	1	1	20.62	0	0.0
	1	53	20.72		0.0
	1	104	20.57		0.0
	50	0	20.60	0-0.5	0.0
	50	28	20.59	0	0.0
	50	56	20.52	0-0.5	0.0
	100	0	20.61		0.0
DFT-s-OFDM QPSK	1	1	20.43	0	0.0
	1	53	**20.84**		0.0
	1	104	20.37		0.0
	50	0	20.39	0-1	0.0
	50	28	**20.41**	0	0.0
	50	56	20.35	0-1	0.0
	100	0	20.40		0.0
DFT-s-OFDM 16QAM	1	1	20.48	0-1	0.0
CP-OFDM QPSK	1	1	20.30	0-1.5	0.0

8.3.2 NR Band n71

Table 8-46
NR Band n71 Measured P_{Limit} Antenna 3 - 20 MHz Bandwidth

NR Band n71 20 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	136100 (680.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM π/2 BPSK	1	1	19.56	0	0.0
	1	53	19.53		0.0
	1	104	19.51		0.0
	50	0	19.52	0-0.5	0.0
	50	28	19.51	0	0.0
	50	56	19.52	0-0.5	0.0
	100	0	19.53		0.0
DFT-s-OFDM QPSK	1	1	**19.82**	0	0.0
	1	53	19.54		0.0
	1	104	19.55		0.0
	50	0	**19.72**	0-1	0.0
	50	28	19.52	0	0.0
	50	56	19.51	0-1	0.0
	100	0	19.55		0.0
DFT-s-OFDM 16QAM	1	1	19.54	0-1	0.0
CP-OFDM QPSK	1	1	19.52	0-1.5	0.0

8.3.3 NR Band n12

Table 8-47
NR Band n12 Measured P_{Limit} Antenna 1 - 15 MHz Bandwidth

NR Band n12 15 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	141500 (707.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM π/2 BPSK	1	1	18.83	0	0.0
	1	40	18.68		0.0
	1	77	18.60		0.0
	36	0	18.69	0-0.5	0.0
	36	22	18.66	0	0.0
	36	43	18.59	0-0.5	0.0
	75	0	18.60		0.0
DFT-s-OFDM QPSK	1	1	**18.82**	0	0.0
	1	40	18.67		0.0
	1	77	18.63		0.0
	36	0	**18.67**	0-1	0.0
	36	22	18.65	0	0.0
	36	43	18.57	0-1	0.0
	75	0	18.66		0.0
DFT-s-OFDM 16QAM	1	1	18.67	0-1	0.0
CP-OFDM QPSK	1	1	18.78	0-1.5	0.0

8.3.4 NR Band n12

Table 8-48
NR Band n12 Measured P_{Limit} Antenna 3 - 15 MHz Bandwidth

NR Band n12 15 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	141500 (707.5 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM π/2 BPSK	1	1	18.58	0	0.0
	1	40	18.46		0.0
	1	77	18.34		0.0
	36	0	18.44	0-0.5	0.0
	36	22	18.34	0	0.0
	36	43	18.34	0-0.5	0.0
	75	0	18.41		0.0
DFT-s-OFDM QPSK	1	1	**18.56**	0	0.0
	1	40	18.48		0.0
	1	77	18.33		0.0
	36	0	**18.52**	0-1	0.0
	36	22	18.42	0	0.0
	36	43	18.35	0-1	0.0
	75	0	18.45		0.0
DFT-s-OFDM 16QAM	1	1	18.77	0-1	0.0
CP-OFDM QPSK	1	1	18.42	0-1.5	0.0

8.3.5 NR Band n14

Table 8-49
NR Band n14 Measured P_{Limit} Antenna 1 - 10 MHz Bandwidth

NR Band n14 10 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	158600 (793 MHz) Conducted Power [dBm]		
DFT-s-OFDM π/2 BPSK	1	1	19.51	0	0.0
	1	26	19.56		0.0
	1	50	19.50		0.0
	25	0	19.42	0-0.5	0.0
	25	14	19.45	0	0.0
	25	27	19.40	0-0.5	0.0
	50	0	19.46		0.0
DFT-s-OFDM QPSK	1	1	19.54	0	0.0
	1	26	**19.56**		0.0
	1	50	19.42		0.0
	25	0	19.43	0-1	0.0
	25	14	**19.50**	0	0.0
	25	27	19.46	0-1	0.0
	50	0	19.45		0.0
DFT-s-OFDM 16QAM	1	1	19.76	0-1	0.0
CP-OFDM QPSK	1	1	19.33	0-1.5	0.0

8.3.6 NR Band n14

Table 8-50
NR Band n14 Measured P_{Limit} Antenna 3 - 10 MHz Bandwidth

NR Band n14 10 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	158600 (793 MHz) Conducted Power [dBm]		
DFT-s-OFDM π/2 BPSK	1	1	19.47	0	0.0
	1	26	19.41		0.0
	1	50	19.48		0.0
	25	0	19.30	0-0.5	0.0
	25	14	19.35	0	0.0
	25	27	19.33	0-0.5	0.0
	50	0	19.34		0.0
DFT-s-OFDM QPSK	1	1	19.44	0	0.0
	1	26	19.40		0.0
	1	50	**19.47**		0.0
	25	0	19.27	0-1	0.0
	25	14	**19.34**	0	0.0
	25	27	19.30	0-1	0.0
	50	0	19.33		0.0
DFT-s-OFDM 16QAM	1	1	19.36	0-1	0.0
CP-OFDM QPSK	1	1	19.37	0-1.5	0.0

8.3.7 NR Band n5

Table 8-51
NR Band n5 Measured P_{Limit} Antenna 1 - 20 MHz Bandwidth

NR Band n5 20 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	167300 (836.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM π/2 BPSK	1	1	18.61	0	0.0
	1	53	18.47		0.0
	1	104	18.44		0.0
	50	0	18.51	0-0.5	0.0
	50	28	18.46	0	0.0
	50	56	18.51	0-0.5	0.0
	100	0	18.48		0.0
DFT-s-OFDM QPSK	1	1	**18.66**	0	0.0
	1	53	18.45		0.0
	1	104	18.49		0.0
	50	0	**18.56**	0-1	0.0
	50	28	18.49	0	0.0
	50	56	18.52	0-1	0.0
	100	0	18.52		0.0
DFT-s-OFDM 16QAM	1	1	18.88	0-1	0.0
CP-OFDM QPSK	1	1	18.48	0-1.5	0.0

8.3.8 NR Band n5

Table 8-52
NR Band n5 Measured P_{Limit} Antenna 3 - 20 MHz Bandwidth

NR Band n5 20 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	167300 (836.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM π/2 BPSK	1	1	18.22	0	0.0
	1	53	18.06		0.0
	1	104	17.98		0.0
	50	0	18.18	0-0.5	0.0
	50	28	18.10	0	0.0
	50	56	18.02	0-0.5	0.0
	100	0	18.12		0.0
DFT-s-OFDM QPSK	1	1	**18.24**	0	0.0
	1	53	18.06		0.0
	1	104	17.95		0.0
	50	0	**18.19**	0-1	0.0
	50	28	18.11	0	0.0
	50	56	18.05	0-1	0.0
	100	0	18.13		0.0
DFT-s-OFDM 16QAM	1	1	18.52	0-1	0.0
CP-OFDM QPSK	1	1	18.08	0-1.5	0.0

8.3.9 NR Band n26

Table 8-53
NR Band n26 Measured P_{Limit} Antenna 1 - 20 MHz Bandwidth

NR Band n26 10 MHz Bandwidth							
			Channel			MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	163800 (819 MHz)	166300 (831.5 MHz)	168800 (844 MHz)		
			Conducted Power [dBm]				
DFT-s-OFDM π/2 BPSK	1	1	18.48	18.34	18.39	0	0.0
	1	26	18.47	18.24	18.56		0.0
	1	50	18.43	18.39	18.47		0.0
	25	0	18.49	18.35	18.45	0-0.5	0.0
	25	14	18.45	18.27	18.33	0	0.0
	25	27	18.36	18.24	18.44	0-0.5	0.0
	50	0	18.46	18.25	18.41		0.0
DFT-s-OFDM QPSK	1	1	18.49	18.36	18.43	0	0.0
	1	26	18.46	18.32	18.50		0.0
	1	50	18.33	18.31	18.44		0.0
	25	0	18.47	18.32	18.45	0-1	0.0
	25	14	18.42	18.26	18.43	0	0.0
	25	27	18.34	18.23	18.44	0-1	0.0
	50	0	18.40	18.26	18.38		0.0
DFT-s-OFDM 16QAM	1	1	18.36	18.53	18.59	0-1	0.0
CP-OFDM QPSK	1	1	18.49	18.22	18.24	0-1.5	0.0

8.3.10 NR Band n26

Table 8-54
NR Band n26 Measured P_{Limit} Antenna 3 - 20 MHz Bandwidth

NR Band n26 10 MHz Bandwidth							
			Channel			MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	163800 (819 MHz)	166300 (831.5 MHz)	168800 (844 MHz)		
			Conducted Power [dBm]				
DFT-s-OFDM π/2 BPSK	1	1	**18.20**	18.04	18.12	0	0.0
	1	26	18.04	18.10	18.14		0.0
	1	50	18.09	18.08	18.03		0.0
	25	0	**18.12**	18.10	18.10	0-0.5	0.0
	25	14	18.01	18.03	18.08	0	0.0
	25	27	18.02	18.00	18.03	0-0.5	0.0
	50	0	18.09	18.07	18.06		0.0
DFT-s-OFDM QPSK	1	1	18.12	18.05	18.16	0	0.0
	1	26	18.10	18.13	18.10		0.0
	1	50	18.05	18.14	18.01		0.0
	25	0	18.12	18.08	18.08	0-1	0.0
	25	14	18.01	18.04	18.09	0	0.0
	25	27	18.03	17.99	18.06	0-1	0.0
	50	0	18.07	18.03	18.04		0.0
DFT-s-OFDM 16QAM	1	1	18.28	18.23	18.36	0-1	0.0
CP-OFDM QPSK	1	1	18.00	17.99	17.91	0-1.5	0.0

8.3.11 NR Band n66

Table 8-55
NR Band n66 Measured P_{Limit} Antenna 1 - 40 MHz Bandwidth

NR Band n66 40 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	349000 (1745 MHz) Conducted Power [dBm]		
DFT-s-OFDM π/2 BPSK	1	1	14.54	0	0.0
	1	108	14.54		0.0
	1	214	14.56		0.0
	108	0	14.55	0-0.5	0.0
	108	54	14.53	0	0.0
	108	108	14.60	0-0.5	0.0
	216	0	14.58		0.0
DFT-s-OFDM QPSK	1	1	**14.62**	0	0.0
	1	108	14.61		0.0
	1	214	14.54		0.0
	108	0	14.58	0-1	0.0
	108	54	14.57	0	0.0
	108	108	**14.65**	0-1	0.0
	216	0	14.58		0.0
DFT-s-OFDM 16QAM	1	1	14.82	0-1	0.0
CP-OFDM QPSK	1	1	14.64	0-1.5	0.0

8.3.12 NR Band n66

Table 8-56
NR Band n66 Measured P_{Limit} Antenna 2b - 40 MHz Bandwidth

NR Band n66 40 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	349000 (1745 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM π/2 BPSK	1	1	14.41	0	0.0
	1	108	14.45		0.0
	1	214	14.42		0.0
	108	0	14.31	0-0.5	0.0
	108	54	14.41	0	0.0
	108	108	14.46	0-0.5	0.0
	216	0	14.44		0.0
DFT-s-OFDM QPSK	1	1	14.40	0	0.0
	1	108	**14.49**		0.0
	1	214	14.38		0.0
	108	0	**14.51**	0-1	0.0
	108	54	14.42	0	0.0
	108	108	14.44	0-1	0.0
	216	0	14.47		0.0
DFT-s-OFDM 16QAM	1	1	14.33	0-1	0.0
CP-OFDM QPSK	1	1	14.44	0-1.5	0.0

8.3.13 NR Band n66

Table 8-57
NR Band n66 Measured P_{Limit} Antenna 3 - 40 MHz Bandwidth

NR Band n66 40 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	349000 (1745 MHz) Conducted Power [dBm]		
DFT-s-OFDM π/2 BPSK	1	1	14.37	0	0.0
	1	108	14.22		0.0
	1	214	14.33		0.0
	108	0	14.30	0-0.5	0.0
	108	54	14.23	0	0.0
	108	108	14.25	0-0.5	0.0
	216	0	14.85		0.0
DFT-s-OFDM QPSK	1	1	14.38	0	0.0
	1	108	14.42		0.0
	1	214	**14.44**		0.0
	108	0	**14.45**	0-1	0.0
	108	54	14.39	0	0.0
	108	108	14.37	0-1	0.0
	216	0	14.42		0.0
DFT-s-OFDM 16QAM	1	1	14.25	0-1	0.0
CP-OFDM QPSK	1	1	14.38	0-1.5	0.0

8.3.14 NR Band n66

Table 8-58
NR Band n66 Measured P_{Limit} Antenna 4b - 40 MHz Bandwidth

NR Band n66 40 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	349000 (1745 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM π/2 BPSK	1	1	12.18	0	0.0
	1	108	12.00		0.0
	1	214	12.20		0.0
	108	0	12.22	0-0.5	0.0
	108	54	12.13	0	0.0
	108	108	12.22	0-0.5	0.0
	216	0	12.39		0.0
DFT-s-OFDM QPSK	1	1	**12.20**	0	0.0
	1	108	12.12		0.0
	1	214	12.15		0.0
	108	0	12.20	0-1	0.0
	108	54	12.13	0	0.0
	108	108	**12.23**	0-1	0.0
	216	0	12.19		0.0
DFT-s-OFDM 16QAM	1	1	12.12	0-1	0.0
CP-OFDM QPSK	1	1	12.17	0-1.5	0.0

8.3.15 NR Band n70

Table 8-59
NR Band n70 Measured P_{Limit} Antenna 1 - 15 MHz Bandwidth

NR Band n70 15 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	340500 (1702.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM π/2 BPSK	1	1	14.57	0	0.0
	1	40	14.53		0.0
	1	77	14.59		0.0
	36	0	14.47	0-0.5	0.0
	36	22	14.49	0	0.0
	36	43	14.46	0-0.5	0.0
	75	0	14.52		0.0
DFT-s-OFDM QPSK	1	1	14.56	0	0.0
	1	40	**14.65**		0.0
	1	77	14.58		0.0
	36	0	14.54	0-1	0.0
	36	22	14.51	0	0.0
	36	43	**14.57**	0-1	0.0
	75	0	14.50		0.0
DFT-s-OFDM 16QAM	1	1	14.87	0-1	0.0
CP-OFDM QPSK	1	1	14.45	0-1.5	0.0

8.3.16 NR Band n70

Table 8-60
NR Band n70 Measured P_{Limit} Antenna 2b - 15 MHz Bandwidth

NR Band n70 15 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	340500 (1702.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM π/2 BPSK	1	1	14.13	0	0.0
	1	40	14.22		0.0
	1	77	14.15		0.0
	36	0	14.01	0-0.5	0.0
	36	22	13.98	0	0.0
	36	43	14.03	0-0.5	0.0
	75	0	14.07		0.0
DFT-s-OFDM QPSK	1	1	14.16	0	0.0
	1	40	**14.23**		0.0
	1	77	14.21		0.0
	36	0	14.06	0-1	0.0
	36	22	14.04	0	0.0
	36	43	**14.07**	0-1	0.0
	75	0	14.05		0.0
DFT-s-OFDM 16QAM	1	1	13.98	0-1	0.0
CP-OFDM QPSK	1	1	14.20	0-1.5	0.0

8.3.17 NR Band n70

Table 8-61
NR Band n70 Measured P_{Limit} Antenna 3 - 15 MHz Bandwidth

NR Band n70 15 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	340500 (1702.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM π/2 BPSK	1	1	14.43	0	0.0
	1	40	14.39		0.0
	1	77	14.33		0.0
	36	0	14.35	0-0.5	0.0
	36	22	14.32	0	0.0
	36	43	14.29	0-0.5	0.0
	75	0	14.34		0.0
DFT-s-OFDM QPSK	1	1	**14.44**	0	0.0
	1	40	14.43		0.0
	1	77	14.40		0.0
	36	0	14.33	0-1	0.0
	36	22	**14.35**	0	0.0
	36	43	14.34	0-1	0.0
	75	0	14.32		0.0
DFT-s-OFDM 16QAM	1	1	14.63	0-1	0.0
CP-OFDM QPSK	1	1	14.33	0-1.5	0.0

8.3.18 NR Band n70

Table 8-62
NR Band n70 Measured P_{Limit} Antenna 4b - 15 MHz Bandwidth

NR Band n70 15 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	340500 (1702.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM π/2 BPSK	1	1	12.30	0	0.0
	1	40	12.33		0.0
	1	77	12.42		0.0
	36	0	12.20	0-0.5	0.0
	36	22	12.23	0	0.0
	36	43	12.27	0-0.5	0.0
	75	0	12.26		0.0
DFT-s-OFDM QPSK	1	1	12.31	0	0.0
	1	40	**12.33**		0.0
	1	77	12.30		0.0
	36	0	12.22	0-1	0.0
	36	22	12.23	0	0.0
	36	43	**12.26**	0-1	0.0
	75	0	12.25		0.0
DFT-s-OFDM 16QAM	1	1	12.21	0-1	0.0
CP-OFDM QPSK	1	1	12.35	0-1.5	0.0

8.3.19 NR Band n25

Table 8-63
NR Band n25 Measured P_{Limit} Antenna 1 - 40 MHz Bandwidth

NR Band n25 40 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	376500 (1882.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM π/2 BPSK	1	1	14.60	0	0.0
	1	108	14.50		0.0
	1	214	14.40		0.0
	108	0	14.52	0-0.5	0.0
	108	54	14.40	0	0.0
	108	108	14.43	0-0.5	0.0
	216	0	14.47		0.0
DFT-s-OFDM QPSK	1	1	**14.50**	0	0.0
	1	108	14.49		0.0
	1	214	14.41		0.0
	108	0	**14.46**	0-1	0.0
	108	54	14.44	0	0.0
	108	108	14.43	0-1	0.0
	216	0	14.45		0.0
DFT-s-OFDM 16QAM	1	1	14.66	0-1	0.0
CP-OFDM QPSK	1	1	14.30	0-1.5	0.0

8.3.20 NR Band n25

Table 8-64
NR Band n25 Measured P_{Limit} Antenna 2b - 40 MHz Bandwidth

NR Band n25 40 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	376500 (1882.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM π/2 BPSK	1	1	13.19	0	0.0
	1	108	13.34		0.0
	1	214	13.35		0.0
	108	0	13.24	0-0.5	0.0
	108	54	13.20	0	0.0
	108	108	13.29	0-0.5	0.0
	216	0	13.19		0.0
DFT-s-OFDM QPSK	1	1	13.21	0	0.0
	1	108	**13.35**		0.0
	1	214	13.33		0.0
	108	0	13.28	0-1	0.0
	108	54	13.21	0	0.0
	108	108	**13.31**	0-1	0.0
	216	0	13.23		0.0
DFT-s-OFDM 16QAM	1	1	13.03	0-1	0.0
CP-OFDM QPSK	1	1	13.12	0-1.5	0.0

8.3.21 NR Band n25

Table 8-65
NR Band n25 Measured P_{Limit} Antenna 3 - 40 MHz Bandwidth

NR Band n25 40 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	376500 (1882.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM π/2 BPSK	1	1	15.95	0	0.0
	1	108	16.05		0.0
	1	214	15.98		0.0
	108	0	15.92	0-0.5	0.0
	108	54	15.95	0	0.0
	108	108	15.99	0-0.5	0.0
	216	0	15.95		0.0
DFT-s-OFDM QPSK	1	1	16.04	0	0.0
	1	108	**16.06**		0.0
	1	214	15.99		0.0
	108	0	15.98	0-1	0.0
	108	54	15.97	0	0.0
	108	108	**16.02**	0-1	0.0
	216	0	15.62		0.0
DFT-s-OFDM 16QAM	1	1	15.88	0-1	0.0
CP-OFDM QPSK	1	1	15.95	0-1.5	0.0

8.3.22 NR Band n25

Table 8-66
NR Band n25 Measured P_{Limit} Antenna 4b - 40 MHz Bandwidth

NR Band n25 40 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	376500 (1882.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM π/2 BPSK	1	1	12.16	0	0.0
	1	108	12.18		0.0
	1	214	12.02		0.0
	108	0	12.21	0-0.5	0.0
	108	54	12.18	0	0.0
	108	108	12.15	0-0.5	0.0
	216	0	12.17		0.0
DFT-s-OFDM QPSK	1	1	12.16	0	0.0
	1	108	**12.21**		0.0
	1	214	12.02		0.0
	108	0	12.14	0-1	0.0
	108	54	**12.17**	0	0.0
	108	108	12.07	0-1	0.0
	216	0	12.16		0.0
DFT-s-OFDM 16QAM	1	1	12.37	0-1	0.0
CP-OFDM QPSK	1	1	12.06	0-1.5	0.0

8.3.23 NR Band n30

Table 8-67
NR Band n30 Measured P_{Limit} Antenna 1 - 10 MHz Bandwidth

NR Band n30 10 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	462000 (2310 MHz) Conducted Power [dBm]		
DFT-s-OFDM π/2 BPSK	1	1	14.54	0	0.0
	1	26	14.53		0.0
	1	50	14.52		0.0
	25	0	14.41	0-0.5	0.0
	25	14	14.45	0	0.0
	25	27	14.43	0-0.5	0.0
	50	0	14.40		0.0
DFT-s-OFDM QPSK	1	1	**14.62**	0	0.0
	1	26	14.56		0.0
	1	50	14.50		0.0
	25	0	**14.45**	0-1	0.0
	25	14	14.44	0	0.0
	25	27	14.42	0-1	0.0
	50	0	14.43		0.0
DFT-s-OFDM 16QAM	1	1	14.44	0-1	0.0
CP-OFDM QPSK	1	1	14.57	0-1.5	0.0

8.3.24 NR Band n30

Table 8-68
NR Band n30 Measured P_{Limit} Antenna 2b - 10 MHz Bandwidth

NR Band n30 10 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	462000 (2310 MHz) Conducted Power [dBm]		
DFT-s-OFDM π/2 BPSK	1	1	12.02	0	0.0
	1	26	12.33		0.0
	1	50	12.20		0.0
	25	0	12.11	0-0.5	0.0
	25	14	12.18	0	0.0
	25	27	12.23	0-0.5	0.0
	50	0	12.07		0.0
DFT-s-OFDM QPSK	1	1	12.22	0	0.0
	1	26	12.29		0.0
	1	50	**12.31**		0.0
	25	0	**12.30**	0-1	0.0
	25	14	12.10	0	0.0
	25	27	12.09	0-1	0.0
	50	0	12.29		0.0
DFT-s-OFDM 16QAM	1	1	12.21	0-1	0.0
CP-OFDM QPSK	1	1	12.27	0-1.5	0.0

8.3.25 NR Band n30

Table 8-69
NR Band n30 Measured P_{Limit} Antenna 3 - 10 MHz Bandwidth

NR Band n30 10 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	462000 (2310 MHz) Conducted Power [dBm]		
DFT-s-OFDM π/2 BPSK	1	1	16.60	0	0.0
	1	26	16.62		0.0
	1	50	16.55		0.0
	25	0	16.55	0-0.5	0.0
	25	14	16.53	0	0.0
	25	27	16.51	0-0.5	0.0
	50	0	16.52		0.0
DFT-s-OFDM QPSK	1	1	**16.67**	0	0.0
	1	26	16.65		0.0
	1	50	16.56		0.0
	25	0	**16.56**	0-1	0.0
	25	14	16.53	0	0.0
	25	27	16.51	0-1	0.0
	50	0	16.54		0.0
DFT-s-OFDM 16QAM	1	1	16.85	0-1	0.0
CP-OFDM QPSK	1	1	16.55	0-1.5	0.0

8.3.26 NR Band n30

Table 8-70
NR Band n30 Measured P_{Limit} Antenna 4b - 10 MHz Bandwidth

NR Band n30 10 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	462000 (2310 MHz) Conducted Power [dBm]		
DFT-s-OFDM π/2 BPSK	1	1	11.16	0	0.0
	1	26	11.12		0.0
	1	50	11.12		0.0
	25	0	11.15	0-0.5	0.0
	25	14	11.13	0	0.0
	25	27	11.18	0-0.5	0.0
	50	0	11.15		0.0
DFT-s-OFDM QPSK	1	1	11.11	0	0.0
	1	26	11.12		0.0
	1	50	**11.13**		0.0
	25	0	11.10	0-1	0.0
	25	14	**11.11**	0	0.0
	25	27	11.10	0-1	0.0
	50	0	11.10		0.0
DFT-s-OFDM 16QAM	1	1	11.10	0-1	0.0
CP-OFDM QPSK	1	1	11.25	0-1.5	0.0

8.3.27 NR Band n7

Table 8-71
NR Band n7 Measured P_{Limit} Antenna 1 - 40 MHz Bandwidth

NR Band n7 40 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	507000 (2535 MHz) Conducted Power [dBm]		
DFT-s-OFDM π/2 BPSK	1	1	12.92	0	0.0
	1	108	12.91		0.0
	1	214	12.82		0.0
	108	0	12.82	0-0.5	0.0
	108	54	12.80	0	0.0
	108	108	12.86	0-0.5	0.0
	216	0	12.81		0.0
DFT-s-OFDM QPSK	1	1	12.92	0	0.0
	1	108	**12.96**		0.0
	1	214	12.85		0.0
	108	0	12.77	0-1	0.0
	108	54	12.80	0	0.0
	108	108	**12.87**	0-1	0.0
	216	0	12.83		0.0
DFT-s-OFDM 16QAM	1	1	13.17	0-1	0.0
CP-OFDM QPSK	1	1	12.83	0-1.5	0.0

8.3.28 NR Band n7

Table 8-72
NR Band n7 Measured P_{Limit} Antenna 2b - 40 MHz Bandwidth

NR Band n7 40 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	507000 (2535 MHz) Conducted Power [dBm]		
DFT-s-OFDM π/2 BPSK	1	1	12.14	0	0.0
	1	108	12.10		0.0
	1	214	12.02		0.0
	108	0	12.00	0-0.5	0.0
	108	54	11.96	0	0.0
	108	108	11.99	0-0.5	0.0
	216	0	12.06		0.0
DFT-s-OFDM QPSK	1	1	**12.15**	0	0.0
	1	108	12.13		0.0
	1	214	12.09		0.0
	108	0	**12.11**	0-1	0.0
	108	54	12.05	0	0.0
	108	108	12.02	0-1	0.0
	216	0	12.05		0.0
DFT-s-OFDM 16QAM	1	1	12.06	0-1	0.0
CP-OFDM QPSK	1	1	12.20	0-1.5	0.0

8.3.29 NR Band n7

Table 8-73
NR Band n7 Measured P_{Limit} Antenna 3 - 40 MHz Bandwidth

NR Band n7 40 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	507000 (2535 MHz) Conducted Power [dBm]		
DFT-s-OFDM π/2 BPSK	1	1	13.72	0	0.0
	1	108	13.72		0.0
	1	214	13.70		0.0
	108	0	13.73	0-0.5	0.0
	108	54	13.70	0	0.0
	108	108	13.72	0-0.5	0.0
	216	0	13.70		0.0
DFT-s-OFDM QPSK	1	1	**13.74**	0	0.0
	1	108	13.71		0.0
	1	214	13.72		0.0
	108	0	13.71	0-1	0.0
	108	54	13.70	0	0.0
	108	108	**13.77**	0-1	0.0
	216	0	13.71		0.0
DFT-s-OFDM 16QAM	1	1	13.98	0-1	0.0
CP-OFDM QPSK	1	1	13.72	0-1.5	0.0

8.3.30 NR Band n7

Table 8-74
NR Band n7 Measured P_{Limit} Antenna 4b - 40 MHz Bandwidth

NR Band n7 40 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	507000 (2535 MHz) Conducted Power [dBm]		
DFT-s-OFDM π/2 BPSK	1	1	11.62	0	0.0
	1	108	11.65		0.0
	1	214	11.54		0.0
	108	0	11.60	0-0.5	0.0
	108	54	11.58	0	0.0
	108	108	11.60	0-0.5	0.0
	216	0	11.62		0.0
DFT-s-OFDM QPSK	1	1	11.62	0	0.0
	1	108	**11.70**		0.0
	1	214	11.56		0.0
	108	0	11.60	0-1	0.0
	108	54	11.56	0	0.0
	108	108	**11.63**	0-1	0.0
	216	0	11.61		0.0
DFT-s-OFDM 16QAM	1	1	11.45	0-1	0.0
CP-OFDM QPSK	1	1	11.61	0-1.5	0.0

8.3.31 NR Band n41 PC2

Table 8-75
NR Band n41 PC2 Measured P_{Limit} Antenna 1 - 100 MHz Bandwidth

NR Band n41 100 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	518598 (2592.99 MHz) Conducted Power [dBm]		
DFT-s-OFDM π/2 BPSK	1	1	13.45	0	0.0
	1	137	13.53		0.0
	1	271	13.37		0.0
	135	0	13.58	0-0.5	0.0
	135	69	13.64	0	0.0
	135	138	13.46	0-0.5	0.0
	270	0	13.56		0.0
DFT-s-OFDM QPSK	1	1	**13.52**	0	0.0
	1	137	13.50		0.0
	1	271	13.46		0.0
	135	0	**13.58**	0-1	0.0
	135	69	13.57	0	0.0
	135	138	13.52	0-1	0.0
	270	0	13.51		0.0
DFT-s-OFDM 16QAM	1	1	13.74	0-1	0.0
CP-OFDM QPSK	1	1	13.28	0-1.5	0.0

8.3.32 NR Band n41 PC2

Table 8-76
NR Band n41 PC2 Measured P_{Limit} Antenna 2a - 100 MHz Bandwidth

NR Band n41 100 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	518598 (2592.99 MHz) Conducted Power [dBm]		
DFT-s-OFDM π/2 BPSK	1	1	11.62	0	0.0
	1	137	11.60		0.0
	1	271	11.61		0.0
	135	0	11.57	0-0.5	0.0
	135	69	11.60	0	0.0
	135	138	11.69	0-0.5	0.0
	270	0	11.64		0.0
DFT-s-OFDM QPSK	1	1	11.53	0	0.0
	1	137	11.62		0.0
	1	271	**11.64**		0.0
	135	0	11.54	0-1	0.0
	135	69	11.59	0	0.0
	135	138	**11.65**	0-1	0.0
	270	0	11.60		0.0
DFT-s-OFDM 16QAM	1	1	11.88	0-1	0.0
CP-OFDM QPSK	1	1	11.51	0-1.5	0.0

8.3.33 NR Band n41 PC2

Table 8-77
NR Band n41 PC2 Measured P_{Limit} Antenna 3 - 100 MHz Bandwidth

NR Band n41 100 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	518598 (2592.99 MHz) Conducted Power [dBm]		
DFT-s-OFDM π/2 BPSK	1	1	13.44	0	0.0
	1	137	13.49		0.0
	1	271	13.55		0.0
	135	0	13.48	0-0.5	0.0
	135	69	13.51	0	0.0
	135	138	13.43	0-0.5	0.0
	270	0	13.48		0.0
DFT-s-OFDM QPSK	1	1	13.49	0	0.0
	1	137	13.52		0.0
	1	271	**13.60**		0.0
	135	0	**13.54**	0-1	0.0
	135	69	13.49	0	0.0
	135	138	13.43	0-1	0.0
	270	0	13.50		0.0
DFT-s-OFDM 16QAM	1	1	13.68	0-1	0.0
CP-OFDM QPSK	1	1	13.41	0-1.5	0.0

8.3.34 NR Band n41 PC2

Table 8-78
NR Band n41 PC2 Measured P_{Limit} Antenna 4b - 100 MHz Bandwidth

NR Band n41 100 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	518598 (2592.99 MHz) Conducted Power [dBm]		
DFT-s-OFDM π/2 BPSK	1	1	11.24	0	0.0
	1	137	11.10		0.0
	1	271	11.11		0.0
	135	0	11.15	0-0.5	0.0
	135	69	11.12	0	0.0
	135	138	11.11	0-0.5	0.0
	270	0	11.12		0.0
DFT-s-OFDM QPSK	1	1	**11.29**	0	0.0
	1	137	11.13		0.0
	1	271	11.11		0.0
	135	0	**11.17**	0-1	0.0
	135	69	11.12	0	0.0
	135	138	11.11	0-1	0.0
	270	0	11.14		0.0
DFT-s-OFDM 16QAM	1	1	11.48	0-1	0.0
CP-OFDM QPSK	1	1	11.20	0-1.5	0.0

8.3.35 NR Band n77 C

Table 8-79
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 π/2 BPSK	1	1	10.51	10.59	0	0.0
	1	137	10.53	10.66		0.0
	1	271	10.54	10.56		0.0
	135	0	10.56	10.58	0-0.5	0.0
	135	69	10.58	10.62	0	0.0
	135	138	10.52	10.57	0-0.5	0.0
	270	0	10.55	10.51		0.0
DFT-s-OFDM QPSK	1	1	10.59	10.65	0	0.0
	1	137	10.54	10.66		0.0
	1	271	**10.68**	10.58		0.0
	135	0	10.53	10.60	0-1	0.0
	135	69	10.57	**10.63**	0	0.0
	135	138	10.53	10.58	0-1	0.0
	270	0	10.51	10.53		0.0
DFT-s-OFDM 16QAM	1	1	10.52	10.84	0-1	0.0
CP-OFDM QPSK	1	1	10.55	10.57	0-1.5	0.0

8.3.36 NR Band n77 C

Table 8-80
NR Band n77 C Measured P_{Limit} Antenna 2a - 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 π/2 BPSK	1	1	10.32	10.57	0	0.0
	1	137	10.49	10.55		0.0
	1	271	10.53	10.37		0.0
	135	0	10.55	10.55	0-0.5	0.0
	135	69	10.50	10.49	0	0.0
	135	138	10.45	10.38	0-0.5	0.0
	270	0	10.45	10.49		0.0
DFT-s-OFDM QPSK	1	1	10.43	10.64	0	0.0
	1	137	10.64	10.54		0.0
	1	271	**10.65**	10.36		0.0
	135	0	10.47	10.56	0-1	0.0
	135	69	**10.60**	10.48	0	0.0
	135	138	10.51	10.40	0-1	0.0
	270	0	10.55	10.51		0.0
DFT-s-OFDM 16QAM	1	1	10.27	10.82	0-1	0.0
CP-OFDM QPSK	1	1	10.66	10.49	0-1.5	0.0

8.3.37 NR Band n77 C

Table 8-81
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 π/2 BPSK	1	1	11.03	10.90	0	0.0
	1	137	10.73	10.92		0.0
	1	271	10.74	10.60		0.0
	135	0	10.85	10.85	0-0.5	0.0
	135	69	10.76	10.81	0	0.0
	135	138	10.75	10.63	0-0.5	0.0
	270	0	10.78	10.73		0.0
DFT-s-OFDM QPSK	1	1	**11.18**	10.83	0	0.0
	1	137	10.76	10.93		0.0
	1	271	10.80	10.70		0.0
	135	0	**10.94**	10.86	0-1	0.0
	135	69	10.81	10.85	0	0.0
	135	138	10.65	10.66	0-1	0.0
	270	0	10.67	10.70		0.0
DFT-s-OFDM 16QAM	1	1	11.42	11.05	0-1	0.0
CP-OFDM QPSK	1	1	11.16	10.73	0-1.5	0.0

8.3.38 NR Band n77 C

Table 8-82
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 $\pi/2$ BPSK	1	1	9.98	9.81	0	0.0
	1	137	10.15	10.24		0.0
	1	271	10.13	9.92		0.0
	135	0	10.17	10.12	0-0.5	0.0
	135	69	10.13	10.09	0	0.0
	135	138	10.14	10.02	0-0.5	0.0
	270	0	10.16	10.05		0.0
DFT-s-OFDM QPSK	1	1	**10.11**	9.85	0	0.0
	1	137	10.02	9.94		0.0
	1	271	10.03	9.87		0.0
	135	0	**10.14**	10.07	0-1	0.0
	135	69	10.11	10.11	0	0.0
	135	138	10.12	10.00	0-1	0.0
	270	0	10.09	10.04		0.0
DFT-s-OFDM 16QAM	1	1	10.18	9.70	0-1	0.0
CP-OFDM QPSK	1	1	9.92	9.86	0-1.5	0.0

8.3.39 NR Band n77 DoD

Table 8-83
NR Band n77 DoD Measured P_{Limit} Antenna 1 - 100 MHz Bandwidth

NR Band n77 DoD 100 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	633334 (3500.01 MHz) Conducted Power [dBm]		
DFT-s-OFDM π/2 BPSK	1	1	11.03	0	0.0
	1	137	11.21		0.0
	1	271	11.40		0.0
	135	0	11.24	0-0.5	0.0
	135	69	11.23	0	0.0
	135	138	11.26	0-0.5	0.0
	270	0	11.32		0.0
DFT-s-OFDM QPSK	1	1	11.15	0	0.0
	1	137	11.24		0.0
	1	271	**11.35**		0.0
	135	0	11.25	0-1	0.0
	135	69	11.22	0	0.0
	135	138	**11.27**	0-1	0.0
	270	0	11.26		0.0
DFT-s-OFDM 16QAM	1	1	11.27	0-1	0.0
CP-OFDM QPSK	1	1	11.16	0-1.5	0.0

8.3.40 NR Band n77 DoD

Table 8-84
NR Band n77 DoD Measured P_{Limit} Antenna 2a - 100 MHz Bandwidth

NR Band n77 DoD 100 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	633334 (3500.01 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM π/2 BPSK	1	1	10.52	0	0.0
	1	137	10.52		0.0
	1	271	10.60		0.0
	135	0	10.50	0-0.5	0.0
	135	69	10.49	0	0.0
	135	138	10.45	0-0.5	0.0
	270	0	10.49		0.0
DFT-s-OFDM QPSK	1	1	10.51	0	0.0
	1	137	10.50		0.0
	1	271	**10.63**		0.0
	135	0	**10.52**	0-1	0.0
	135	69	10.47	0	0.0
	135	138	10.46	0-1	0.0
	270	0	10.51		0.0
DFT-s-OFDM 16QAM	1	1	10.76	0-1	0.0
CP-OFDM QPSK	1	1	10.44	0-1.5	0.0

8.3.41 NR Band n77 DoD

Table 8-85
NR Band n77 DoD Measured P_{Limit} Antenna 3 - 100 MHz Bandwidth

NR Band n77 DoD 100 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	633334 (3500.01 MHz) Conducted Power [dBm]		
DFT-s-OFDM π/2 BPSK	1	1	11.27	0	0.0
	1	137	11.22		0.0
	1	271	11.16		0.0
	135	0	11.22	0-0.5	0.0
	135	69	11.17	0	0.0
	135	138	11.06	0-0.5	0.0
	270	0	11.21		0.0
DFT-s-OFDM QPSK	1	1	**11.25**	0	0.0
	1	137	11.16		0.0
	1	271	11.14		0.0
	135	0	11.19	0-1	0.0
	135	69	**11.20**	0	0.0
	135	138	11.06	0-1	0.0
	270	0	10.92		0.0
DFT-s-OFDM 16QAM	1	1	11.45	0-1	0.0
CP-OFDM QPSK	1	1	11.14	0-1.5	0.0

8.3.42 NR Band n77 DoD

Table 8-86
NR Band n77 DoD Measured P_{Limit} Antenna 4b - 100 MHz Bandwidth

NR Band n77 DoD 100 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	633334 (3500.01 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM π/2 BPSK	1	1	9.13	0	0.0
	1	137	9.12		0.0
	1	271	9.23		0.0
	135	0	9.15	0-0.5	0.0
	135	69	9.18	0	0.0
	135	138	9.10	0-0.5	0.0
	270	0	9.12		0.0
DFT-s-OFDM QPSK	1	1	9.17	0	0.0
	1	137	9.13		0.0
	1	271	**9.22**		0.0
	135	0	9.11	0-1	0.0
	135	69	**9.15**	0	0.0
	135	138	9.08	0-1	0.0
	270	0	9.13		0.0
DFT-s-OFDM 16QAM	1	1	9.38	0-1	0.0
CP-OFDM QPSK	1	1	9.03	0-1.5	0.0

8.4 WLAN Power Reduction Verification Summary

Table 8-92
2.4 GHz WLAN Maximum Average RF Power – Antenna 4a, Variant 1

2.4GHz Conducted Power [dBm]					
Freq [MHz]	Channel	IEEE Transmission Mode			
		802.11b	802.11g	802.11n	802.11ax (SU)
		Average	Average	Average	Average
2412	1	11.50	11.20	11.26	11.19
2437	6	11.32	11.24	11.21	11.27
2462	11	11.60	11.51	11.42	11.52

Table 8-93
2.4 GHz WLAN Maximum Average RF Power – Antenna 4a, Variant 2

2.4GHz Conducted Power [dBm]					
Freq [MHz]	Channel	IEEE Transmission Mode			
		802.11b	802.11g	802.11n	802.11ax (SU)
		Average	Average	Average	Average
2412	1	11.43	11.52	11.49	11.40
2437	6	11.63	11.48	11.50	11.54
2462	11	11.58	11.41	11.45	11.48

Table 8-94
2.4 GHz WLAN Maximum Average RF Power – Antenna 2a, Variant 1

2.4GHz Conducted Power [dBm]					
Freq [MHz]	Channel	IEEE Transmission Mode			
		802.11b	802.11g	802.11n	802.11ax (SU)
		Average	Average	Average	Average
2412	1	11.15	11.98	11.97	11.96
2437	6	11.17	12.14	12.14	12.03
2462	11	11.11	12.04	12.02	11.99

Table 8-95
2.4 GHz WLAN Maximum Average RF Power – Antenna 2a, Variant 2

2.4GHz Conducted Power [dBm]					
Freq [MHz]	Channel	IEEE Transmission Mode			
		802.11b	802.11g	802.11n	802.11ax (SU)
		Average	Average	Average	Average
2412	1	11.06	12.15	12.20	12.11
2437	6	11.26	12.23	12.17	12.19
2462	11	11.25	12.04	12.06	11.92

Table 8-96
5 GHz WLAN Maximum Average RF Power – Antenna 5b, Variant 1

5GHz (40MHz) Conducted Power [dBm]			
Freq [MHz]	Channel	IEEE Transmission Mode	
		802.11n	802.11ax (SU)
		Average	Average
5190	38	13.03	13.06
5230	46	15.30	15.57
5270	54	15.71	15.47
5310	62	14.35	14.19

5GHz (80MHz) Conducted Power [dBm]			
Freq [MHz]	Channel	IEEE Transmission Mode	
		802.11ac	802.11ax (SU)
		Average	Average
5530	106	13.45	12.41
5610	122	14.50	14.30
5690	138	14.26	14.01
5775	155	14.93	14.54

Table 8-97
5 GHz WLAN Maximum Average RF Power – Antenna 5b, Variant 2

5GHz (40MHz) Conducted Power [dBm]			
Freq [MHz]	Channel	IEEE Transmission Mode	
		802.11n	802.11ax (SU)
		Average	Average
5190	38	13.05	13.22
5230	46	15.27	15.42
5270	54	15.55	15.65
5310	62	14.49	14.05

5GHz (80MHz) Conducted Power [dBm]			
Freq [MHz]	Channel	IEEE Transmission Mode	
		802.11ac	802.11ax (SU)
		Average	Average
5530	106	12.61	12.60
5610	122	14.45	14.47
5690	138	14.23	14.21
5775	155	15.10	14.56

Table 8-98
5 GHz WLAN Maximum Average RF Power – Antenna 4a, Variant 1

5GHz (80MHz) Conducted Power [dBm]			
Freq [MHz]	Channel	IEEE Transmission Mode	
		802.11ac	802.11ax (SU)
		Average	Average
5210	42	8.20	8.33
5290	58	7.41	7.49
5530	106	8.27	8.41
5610	122	8.26	8.37
5690	138	8.34	8.53
5775	155	7.41	7.93

Table 8-99
5 GHz WLAN Maximum Average RF Power – Antenna 4a, Variant 2

5GHz (80MHz) Conducted Power [dBm]			
Freq [MHz]	Channel	IEEE Transmission Mode	
		802.11ac	802.11ax (SU)
		Average	Average
5210	42	8.30	8.43
5290	58	7.57	7.47
5530	106	8.21	8.23
5610	122	8.28	8.48
5690	138	8.23	8.33
5775	155	7.56	8.01

8.1 WLAN Reduced Time-Averaged Conducted Powers

Table 8-110
2.4 GHz WLAN Reduced Average RF Power – Antenna 4a, Variant 1

2.4GHz Conducted Power [dBm]					
Freq [MHz]	Channel	IEEE Transmission Mode			
		802.11b	802.11g	802.11n	802.11ax
		Average	Average	Average	Average
2412	1	6.60	6.45	6.47	6.24
2437	6	6.94	6.36	6.42	6.39
2462	11	6.80	6.30	6.33	6.37

Table 8-111
2.4 GHz WLAN Reduced Average RF Power – Antenna 4a, Variant 2

2.4GHz Conducted Power [dBm]					
Freq [MHz]	Channel	IEEE Transmission Mode			
		802.11b	802.11g	802.11n	802.11ax
		Average	Average	Average	Average
2412	1	6.61	6.54	6.52	6.49
2437	6	6.90	6.76	6.74	6.81
2462	11	7.10	6.21	6.19	6.18

Table 8-112
2.4 GHz WLAN Reduced Average RF Power – Antenna 2a, Variant 1

2.4GHz Conducted Power [dBm]					
Freq [MHz]	Channel	IEEE Transmission Mode			
		802.11b	802.11g	802.11n	802.11ax
		Average	Average	Average	Average
2412	1	7.81	8.76	8.77	8.63
2437	6	7.67	8.41	8.45	8.38
2462	11	7.73	8.32	8.23	8.19

Table 8-113
2.4 GHz WLAN Reduced Average RF Power – Antenna 2a, Variant 2

2.4GHz Conducted Power [dBm]					
Freq [MHz]	Channel	IEEE Transmission Mode			
		802.11b	802.11g	802.11n	802.11ax
		Average	Average	Average	Average
2412	1	8.07	8.47	8.51	8.40
2437	6	8.06	8.28	8.34	8.37
2462	11	8.41	8.06	8.10	8.01

Table 8-114
5 GHz WLAN 4 dB Reduced Average RF Power – Antenna 5b, Variant 1

5GHz (80MHz) Conducted Power [dBm]			
Freq [MHz]	Channel	IEEE Transmission Mode	
		802.11ac	802.11ax
		Average	Average
5210	42	12.00	11.37
5290	58	11.90	11.33
5530	106	9.83	10.26
5610	122	9.98	10.40
5690	138	9.93	10.01
5775	155	10.54	11.28

Table 8-115
5 GHz WLAN 4 dB Reduced Average RF Power – Antenna 5b, Variant 2

5GHz (80MHz) Conducted Power [dBm]			
Freq [MHz]	Channel	IEEE Transmission Mode	
		802.11ac	802.11ax
		Average	Average
5210	42	11.81	11.60
5290	58	11.78	11.50
5530	106	9.99	10.05
5610	122	10.01	10.09
5690	138	10.00	10.02
5775	155	10.44	10.20

Table 8-116
5 GHz WLAN 5.5 dB Reduced Average RF Power – Antenna 4a, Variant 1

5GHz (80MHz) Conducted Power [dBm]			
Freq [MHz]	Channel	IEEE Transmission Mode	
		802.11ac	802.11ax
		Average	Average
5210	42	2.89	2.74
5290	58	2.91	2.81
5530	106	3.00	2.94
5610	122	3.02	2.91
5690	138	2.91	2.78
5775	155	2.96	3.49

Table 8-117
5 GHz WLAN 5.5 dB Reduced Average RF Power – Antenna 4a, Variant 2

5GHz (80MHz) Conducted Power [dBm]			
Freq [MHz]	Channel	IEEE Transmission Mode	
		802.11ac	802.11ax
		Average	Average
5210	42	3.03	3.07
5290	58	2.95	1.54
5530	106	2.74	3.30
5610	122	3.03	3.17
5690	138	2.75	2.79
5775	155	1.59	3.47

WLAN Reduced Time-Averaged Conducted Powers

Table 8-118
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 Target Power [dBm] (Tolerance [dB])	Reduced Target Power [dBm] (Tolerance [dB])	Maximum Measured Power [dBm]	Reduced Measured Power [dBm]	Verdict
Ant 2A	2.4 GHz WLAN	Main Band 2A ON	13.00	9.50	11.50 (+1.5/-1.5)	8.00 (+1.5/-1.5)	12.54	9.34	PASS
	2.4 GHz WLAN	Main Band 2B ON	13.00	9.50	11.50 (+1.5/-1.5)	8.00 (+1.5/-1.5)	12.54	8.75	PASS
	2.4 GHz WLAN	ULCA/PD ON	13.00	9.50	11.50 (+1.5/-1.5)	8.00 (+1.5/-1.5)	12.54	9.24	PASS
Ant 4A	2.4 GHz WLAN	Main Band 4B ON	12.50	7.50	11.00 (+1.5/-1.5)	6.00 (+1.5/-1.5)	11.97	7.42	PASS
	2.4 GHz WLAN	ULCA/PD ON	12.50	7.50	11.00 (+1.5/-1.5)	6.00 (+1.5/-1.5)	11.97	7.44	PASS
Ant 4A	5 GHz WLAN	Main Band Ant 4B ON	9.25	3.75	7.75 (+1.5/-1.5)	2.25 (+1.5/-1.5)	9.14	3.21	PASS
	5 GHz WLAN	ULCA/PD ON	9.25	3.75	7.75 (+1.5/-1.5)	2.25 (+1.5/-1.5)	9.14	3.01	PASS
Ant 5B	5 GHz WLAN	Main Band Ant 2A ON	16.50	12.50	15.00 (+1.5/-1.5)	11.00 (+1.5/-1.5)	15.75	12.47	PASS
	5 GHz WLAN	Main Band Ant 2B ON	16.50	12.50	15.00 (+1.5/-1.5)	11.00 (+1.5/-1.5)	15.75	12.46	PASS
	5 GHz WLAN	ULCA/PD ON	16.50	12.50	15.00 (+1.5/-1.5)	11.00 (+1.5/-1.5)	15.75	12.49	PASS

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

8.2 Notes for WLAN

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

- Power measurements were performed for the transmission mode configuration with the highest maximum output power specified for production units.
- For transmission modes with the same maximum output power specification, powers were measured for the largest channel bandwidth, lowest order modulation and lowest data rate.
- For transmission modes with identical maximum specified output power, channel bandwidth, modulation and data rates, power measurements were required for all identical configurations.
- For each transmission mode configuration, powers were measured for the highest and lowest channels; and at the mid-band channel(s) when there were at least 3 channels supported. For configurations with multiple mid-band channels, due to an even number of channels, both channels were measured.
- The WLAN chipset in this device is produced by two different suppliers. The electrically identical modules are manufactured with the 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. The Variant with the highest reported SAR value was evaluated for the remaining WLAN configurations.

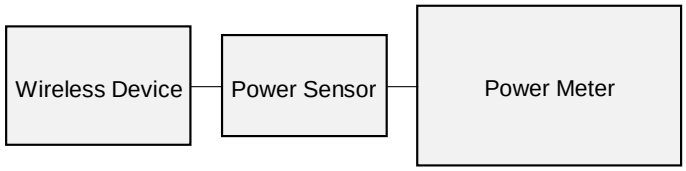

Figure 8-3
Power Measurement Setup

8.3 Bluetooth Maximum Conducted Powers

Table 8-119
Bluetooth 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	13.08	20.324
2441	GFSK	1.0	39	13.09	20.370
2480	GFSK	1.0	78	13.21	20.941

Table 8-120
Bluetooth 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	12.96	19.770
2441	GFSK	1.0	39	12.95	19.724
2480	GFSK	1.0	78	13.15	20.654

Table 8-121
Bluetooth 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	11.38	13.740
2441	GFSK	1.0	39	11.41	13.836
2480	GFSK	1.0	78	11.75	14.962

Table 8-122
Bluetooth 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	11.58	14.388
2441	GFSK	1.0	39	11.77	15.031
2480	GFSK	1.0	78	11.20	13.183

8.4 NB UNII Maximum Conducted Powers

Table 8-122
NB UNII-1 Average RF Power – Antenna 5b, Variant 1

Type	Band	Frequency	Average
HDR	UNII1	5162	11.09
		5204	11.39
		5245	11.06

Table 8-123
NB UNII-1 Average RF Power – Antenna 5b, Variant 2

Type	Band	Frequency	Average
HDR	UNII1	5162	11.22
		5204	11.11
		5245	11.02

Table 8-124
NB UNII-1 Average RF Power – Antenna 4a, Variant 1

Type	Band	Frequency	Average
HDR	UNII1	5162	9.9
		5204	9.77
		5245	9.91

Table 8-125
NB UNII-1 Average RF Power – Antenna 4a, Variant 2

Type	Band	Frequency	Average
HDR	UNII1	5162	9.41
		5204	9.32
		5245	9.39

Table 8-126
NB UNII-3 Average RF Power – Antenna 5b, Variant 1

BDR	UNII3	5733	15.22
		5789	15.32
		5844	15.16

Table 8-127
NB UNII-3 Average RF Power – Antenna 5b, Variant 2

BDR	UNII3	5733	15.21
		5789	15.15
		5844	15.12

Table 8-128
NB UNII-3 Average RF Power – Antenna 4a, Variant 1

BDR	UNII3	5733	10.34
		5789	10.24
		5844	10.37

Table 8-129
NB UNII-3 Average RF Power – Antenna 4a, Variant 2

BDR	UNII3	5733	10.4
		5789	10.45
		5844	10.2

8.5 Bluetooth Reduced Conducted Powers

Table 8-130
Bluetooth 3dB Reduced 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	9.91	9.795
2441	GFSK	1.0	39	9.88	9.727
2480	GFSK	1.0	78	9.85	9.661

Table 8-131
Bluetooth 3dB Reduced 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	10.20	10.471
2441	GFSK	1.0	39	10.22	10.520
2480	GFSK	1.0	78	10.13	10.304

Table 8-132
Bluetooth 5dB Reduced 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	8.16	6.546
2441	GFSK	1.0	39	7.90	6.166
2480	GFSK	1.0	78	7.88	6.138

Table 8-133
Bluetooth 5dB Reduced 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	8.24	6.668
2441	GFSK	1.0	39	8.19	6.592
2480	GFSK	1.0	78	8.05	6.383

Table 8-134
Bluetooth 7dB Reduced 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	4.91	3.097
2441	GFSK	1.0	39	4.96	3.133
2480	GFSK	1.0	78	4.92	3.105

Table 8-135
Bluetooth 7dB Reduced 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	6.49	4.457
2441	GFSK	1.0	39	6.20	4.169
2480	GFSK	1.0	78	6.14	4.111

Table 8-136
Bluetooth 4dB Reduced 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	8.11	6.471
2441	GFSK	1.0	39	8.02	6.339
2480	GFSK	1.0	78	7.97	6.266

Table 8-137
Bluetooth 4dB Reduced 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	8.01	6.324
2441	GFSK	1.0	39	7.97	6.266
2480	GFSK	1.0	78	8.03	6.353

Table 8-138
Bluetooth 7dB Reduced 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	4.85	3.055
2441	GFSK	1.0	39	5.07	3.214
2480	GFSK	1.0	78	4.79	3.013

Table 8-139
Bluetooth 7dB Reduced 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	5.01	3.170
2441	GFSK	1.0	39	4.88	3.076
2480	GFSK	1.0	78	5.16	3.281

8.6 NB UNII Reduced Conducted Powers

Table 8-140
NB UNII-1 4dB Reduced Average RF Power – Antenna 5b, Variant 1

Type	Band	Frequency	Average
HDR	UNII1	5162	7.15
		5204	7.25
		5245	7.39

Table 8-141
NB UNII-1 4dB Reduced Average RF Power – Antenna 5b, Variant 2

Type	Band	Frequency	Average
HDR	UNII1	5162	7.16
		5204	7.04
		5245	7.11

Table 8-142
NB UNII-1 7dB Reduced Average RF Power – Antenna 5b, Variant 1

Type	Band	Frequency	Average
HDR	UNII1	5162	3.86
		5204	3.89
		5245	3.97

Table 8-143
NB UNII-1 7dB Reduced Average RF Power – Antenna 5b, Variant 2

Type	Band	Frequency	Average
HDR	UNII1	5162	4.12
		5204	4.06
		5245	3.98

Table 8-144
NB UNII-1 3dB Reduced Average RF Power – Antenna 4a, Variant 1

Type	Band	Frequency	Average
HDR	UNII1	5162	6.37
		5204	6.59
		5245	6.45

Table 8-145
NB UNII-1 3dB Reduced Average RF Power – Antenna 4a, Variant 2

Type	Band	Frequency	Average
HDR	UNII1	5162	6.34
		5204	6.55
		5245	6.2

Table 8-146
NB UNII-1 5dB Reduced Average RF Power – Antenna 4a, Variant 1

Type	Band	Frequency	Average
HDR	UNII1	5162	4.58
		5204	4.68
		5245	4.47

Table 8-147
NB UNII-1 5dB Reduced Average RF Power – Antenna 4a, Variant 2

Type	Band	Frequency	Average
HDR	UNII1	5162	4.87
		5204	5.15
		5245	4.76

Table 8-148
NB UNII-1 7dB Reduced Average RF Power – Antenna 4a, Variant 1

Type	Band	Frequency	Average
HDR	UNII1	5162	3.21
		5204	3.28
		5245	3.02

Table 8-149
NB UNII-1 7dB Reduced Average RF Power – Antenna 4a, Variant 2

Type	Band	Frequency	Average
HDR	UNII1	5162	3.39
		5204	3.49
		5245	3.36

Table 8-150
NB UNII-3 4dB Reduced Average RF Power – Antenna 5b, Variant 1

Type	Band	Frequency	Average
BDR	UNII3	5733	11.19
		5789	11.12
		5844	11.01

Table 8-151
NB UNII-3 4dB Reduced Average RF Power – Antenna 5b, Variant 2

Type	Band	Frequency	Average
BDR	UNII3	5733	10.94
		5789	11.3
		5844	10.8

Table 8-152
NB UNII-3 7dB Reduced Average RF Power – Antenna 5b, Variant 1

Type	Band	Frequency	Average
BDR	UNII3	5733	8.24
		5789	8.22
		5844	7.94

Table 8-153
NB UNII-3 7dB Reduced Average RF Power – Antenna 5b, Variant 2

Type	Band	Frequency	Average
BDR	UNII3	5733	7.8
		5789	7.95
		5844	7.72

Table 8-154
NB UNII-3 3dB Reduced Average RF Power – Antenna 4a, Variant 1

Type	Band	Frequency	Average
BDR	UNII3	5733	6.39
		5789	6.71
		5844	6.99

Table 8-155
NB UNII-3 3dB Reduced Average RF Power – Antenna 4a, Variant 2

Type	Band	Frequency	Average
BDR	UNII3	5733	6.27
		5789	6.37
		5844	6.44

Table 8-156
NB UNII-3 5dB Reduced Average RF Power – Antenna 4a, Variant 1

Type	Band	Frequency	Average
BDR	UNII3	5733	5.05
		5789	5.31
		5844	5.06

Table 8-157
NB UNII-3 5dB Reduced Average RF Power – Antenna 4a, Variant 2

Type	Band	Frequency	Average
BDR	UNII3	5733	4.69
		5789	4.87
		5844	5

Table 8-158
NB UNII-3 7dB Reduced Average RF Power – Antenna 4a, Variant 1

Type	Band	Frequency	Average
BDR	UNII3	5733	3.11
		5789	3.29
		5844	3.09

Table 8-159
NB UNII-3 7dB Reduced Average RF Power – Antenna 4a, Variant 2

Type	Band	Frequency	Average
BDR	UNII3	5733	2.64
		5789	2.8
		5844	2.93

8.7 Bluetooth Duty Cycle Plots

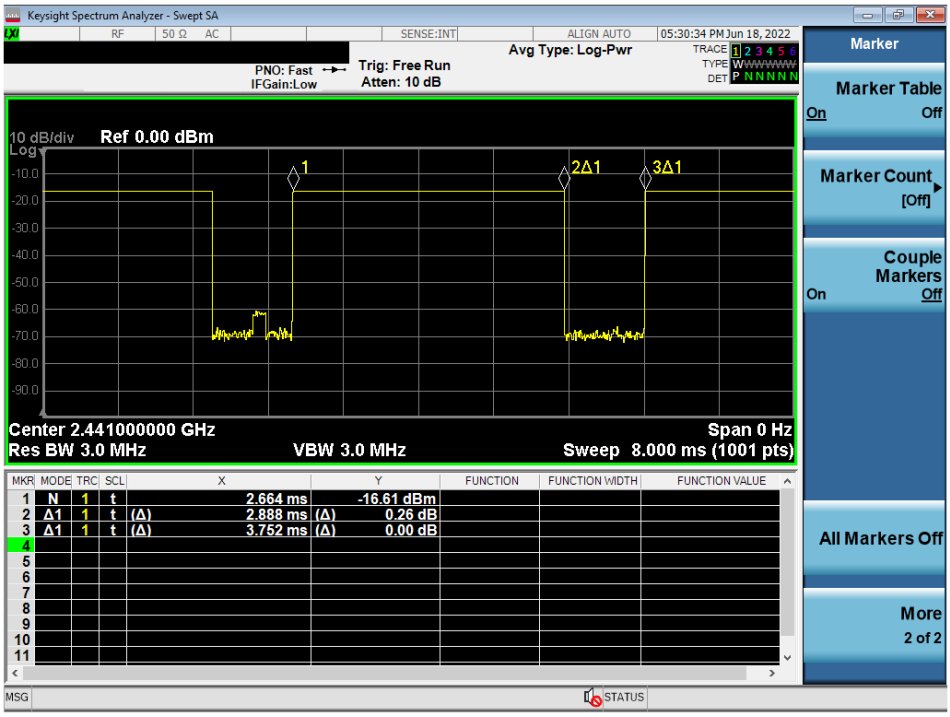

Figure 8-4
Bluetooth Transmission Plot – Antenna 2a, Variant 1

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

$$Duty\ Cycle = \frac{Pulse\ Width}{Period} * 100\% = \frac{2.888}{3.752} * 100\% = 77\%$$

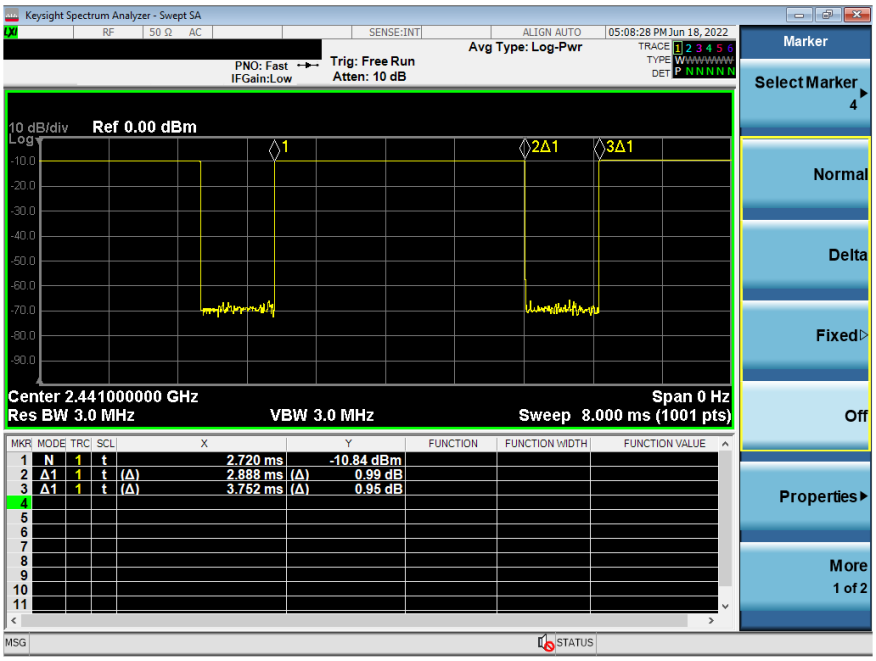

Figure 8-5
Bluetooth Transmission Plot – Antenna 2a, Variant 2

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

$$\boldsymbol{Duty\ Cycle} = \frac{\boldsymbol{Pulse\ Width}}{\boldsymbol{Period}} * \mathbf{100\%} = \frac{\mathbf{2.888}}{\mathbf{3.752}} * \mathbf{100\%} = \mathbf{77\%}$$

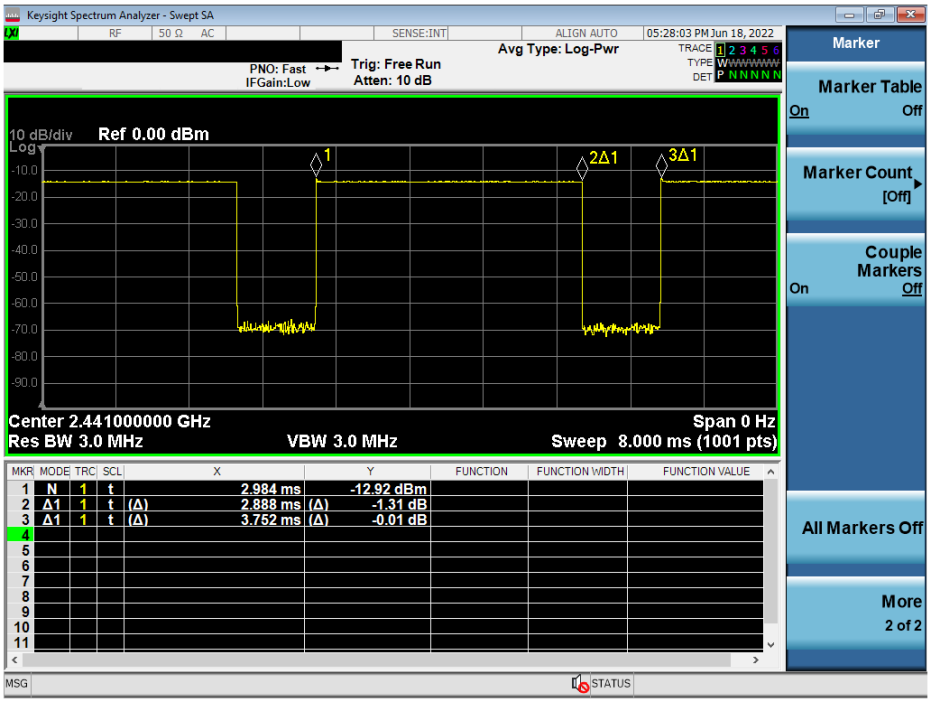

Figure 8-6
Bluetooth Transmission Plot – Antenna 4a, Variant 1

Equation 8-3
Bluetooth Duty Cycle Calculation – Antenna 4a, Variant 1

$$Duty\ Cycle = \frac{Pulse\ Width}{Period} * 100\% = \frac{2.888}{3.752} * 100\% = 77\%$$

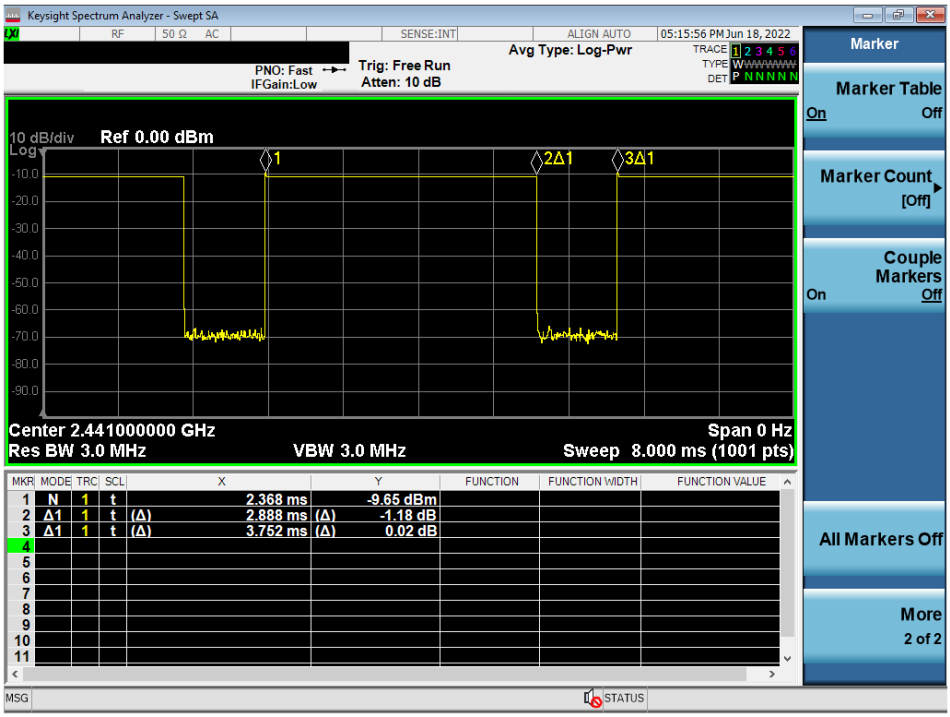

Figure 8-7
Bluetooth Transmission Plot – Antenna 4a, Variant 2

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

$$Duty\ Cycle = \frac{Pulse\ Width}{Period} * 100\% = \frac{2.888}{3.752} * 100\% = 77\%$$

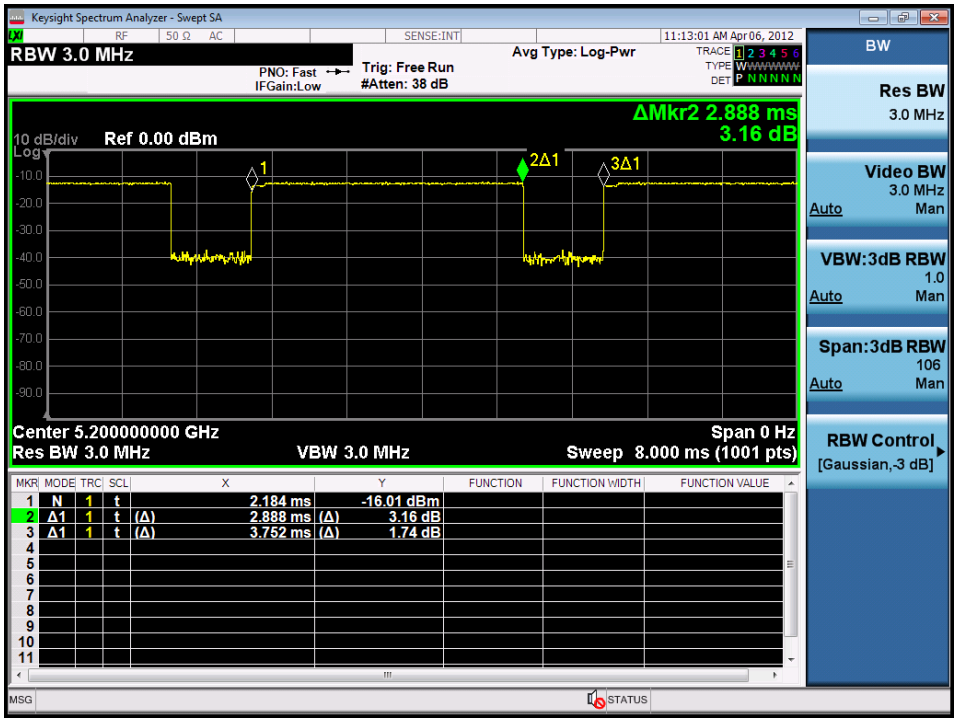

Figure 8-8
NB UNII-1 Transmission Plot – Antenna 5b, Variant 1

Equation 8-5
NB UNII-1 Duty Cycle Calculation – Antenna 5b, Variant 1

$$Duty\ Cycle = \frac{Pulse\ Width}{Period} * 100\% = \frac{2.888}{3.752} * 100\% = 77\%$$

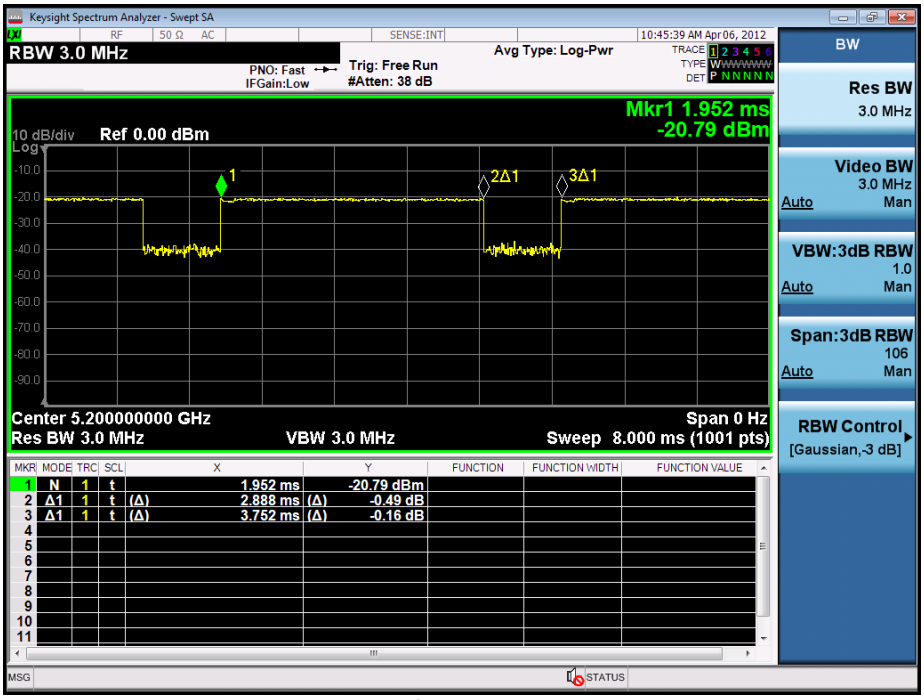

Figure 8-9
NB UNII-1 Transmission Plot – Antenna 5b, Variant 2

Equation 8-6
NB UNII-1 Duty Cycle Calculation – Antenna 5b, Variant 2

$$Duty\ Cycle = \frac{Pulse\ Width}{Period} * 100\% = \frac{2.888}{3.752} * 100\% = 77\%$$

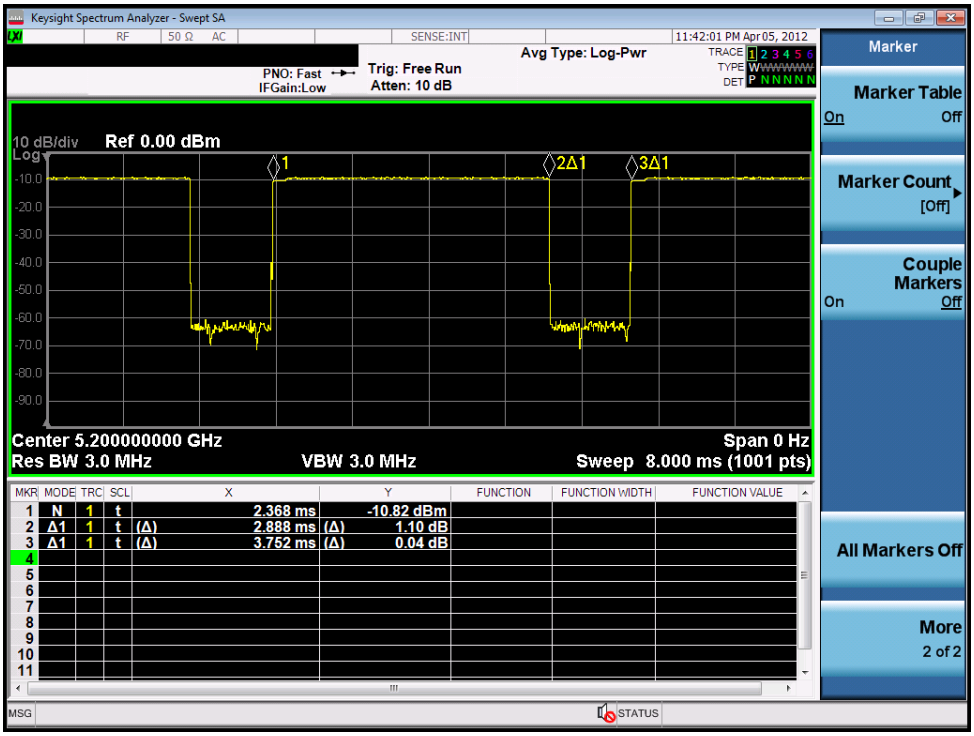

Figure 8-10
NB UNII-1 Transmission Plot – Antenna 4a, Variant 1

Equation 8-7
NB UNII-1 Duty Cycle Calculation – Antenna 4a, Variant 1

$$Duty\ Cycle = \frac{Pulse\ Width}{Period} * 100\% = \frac{2.888}{3.752} * 100\% = 77\%$$

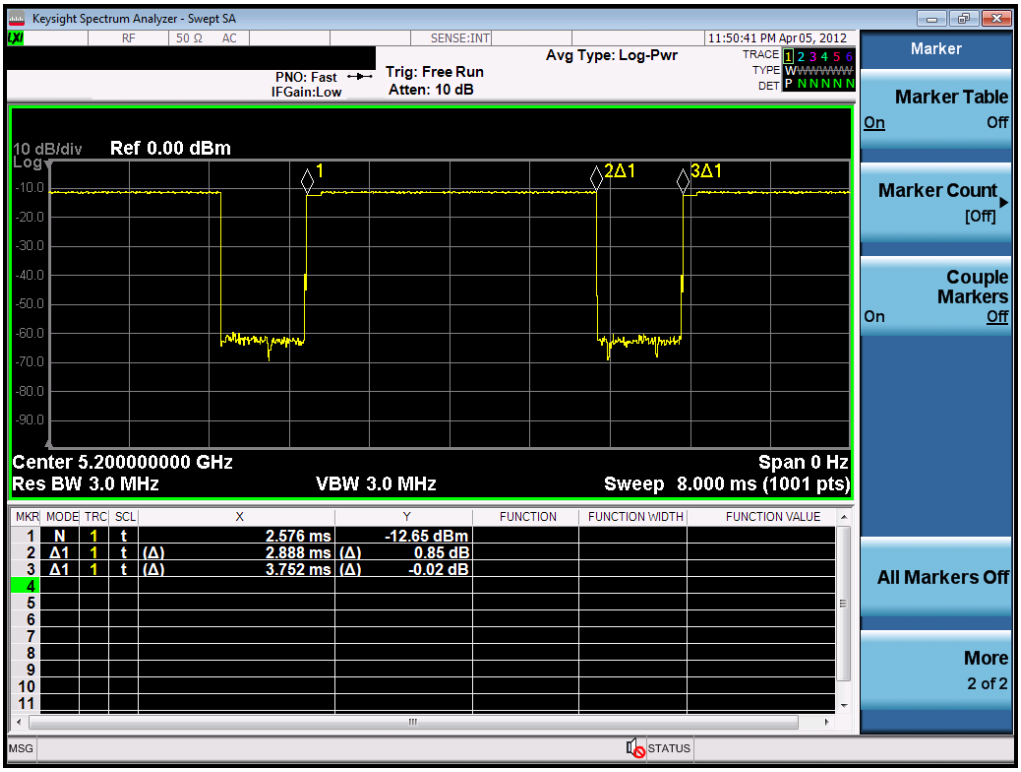

Figure 8-11
NB UNII-1 Transmission Plot – Antenna 4a, Variant 2

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

$$\boldsymbol{Duty\ Cycle} = \frac{\boldsymbol{Pulse\ Width}}{\boldsymbol{Period}} * \mathbf{100\%} = \frac{\mathbf{2.888}}{\mathbf{3.752}} * \mathbf{100\%} = \mathbf{77\%}$$

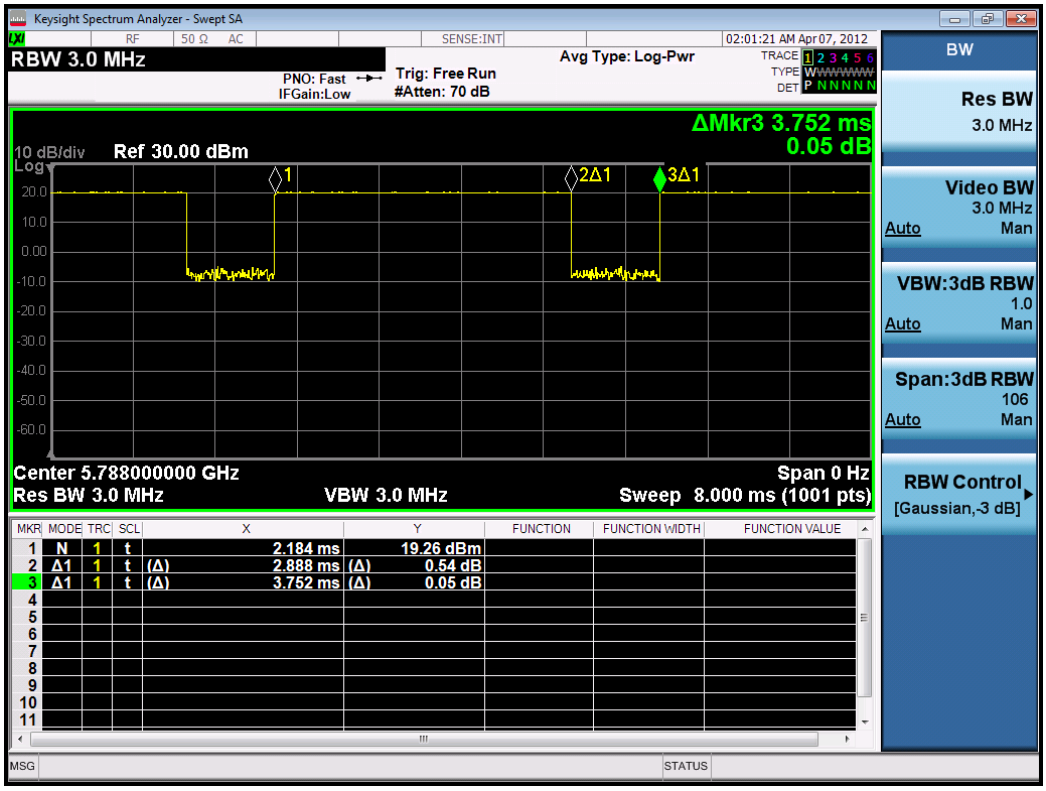

Figure 8-12
NB UNII-3 Transmission Plot – Antenna 5b, Variant 1

Equation 8-9
NB UNII-3 Duty Cycle Calculation – Antenna 5b, Variant 1

$$\boldsymbol{Duty\ Cycle} = \frac{\boldsymbol{Pulse\ Width}}{\boldsymbol{Period}} * \mathbf{100\%} = \frac{\mathbf{2.888}}{\mathbf{3.752}} * \mathbf{100\%} = \mathbf{77\%}$$

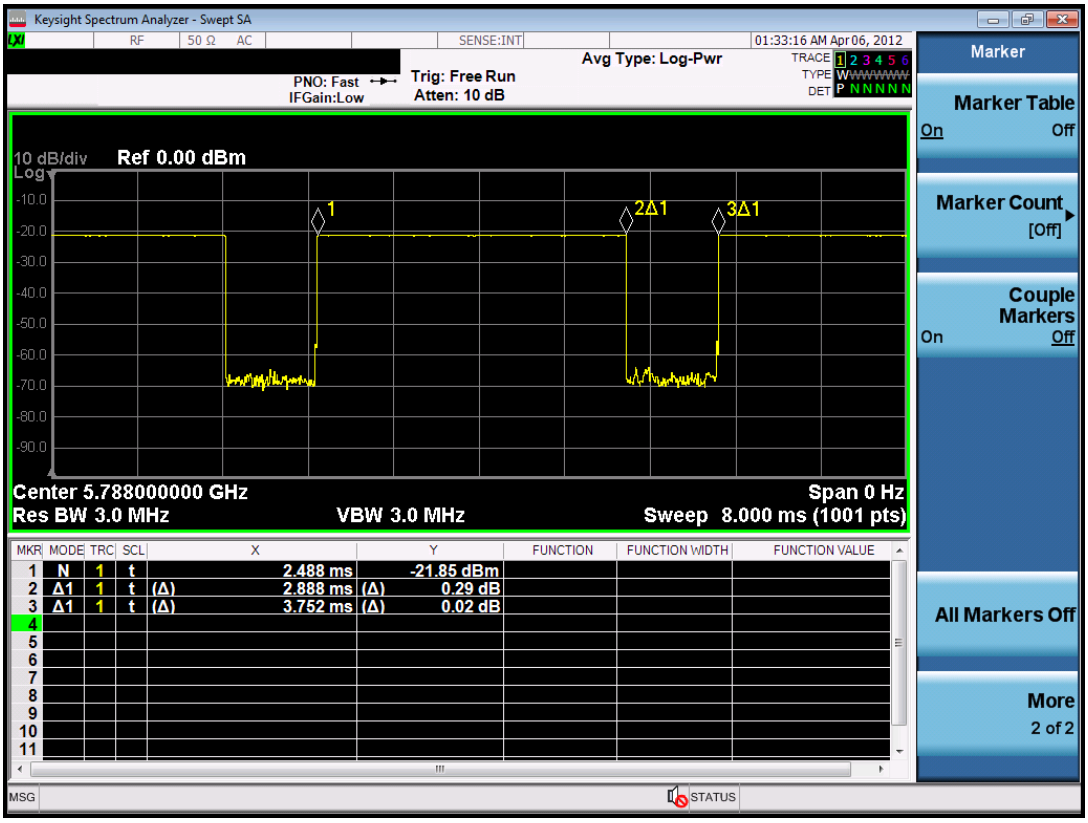

Figure 8-13
NB UNII-3 Transmission Plot – Antenna 5b, Variant 2

Equation 8-10
NB UNII-3 Duty Cycle Calculation – Antenna 5b, Variant 2

$$\boldsymbol{Duty\ Cycle} = \frac{\boldsymbol{Pulse\ Width}}{\boldsymbol{Period}} * \mathbf{100\%} = \frac{\mathbf{2.888}}{\mathbf{3.752}} * \mathbf{100\%} = \mathbf{77\%}$$

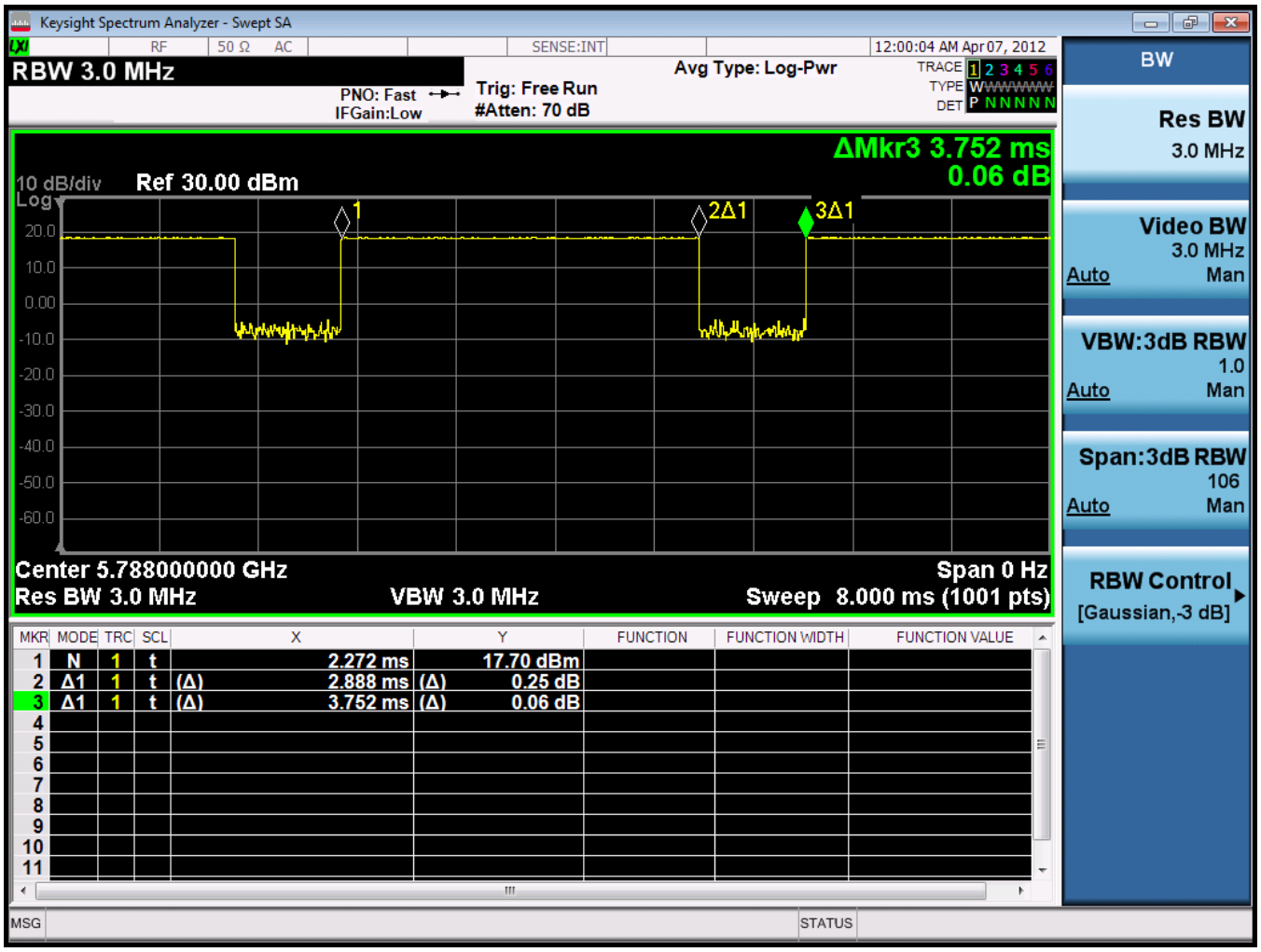

Figure 8-14
NB UNII-3 Transmission Plot – Antenna 4a, Variant 1

Equation 8-11
NB UNII-3 Duty Cycle Calculation – Antenna 4a, Variant 1

$$Duty\ Cycle = \frac{Pulse\ Width}{Period} * 100\% = \frac{2.888}{3.752} * 100\% = 77\%$$

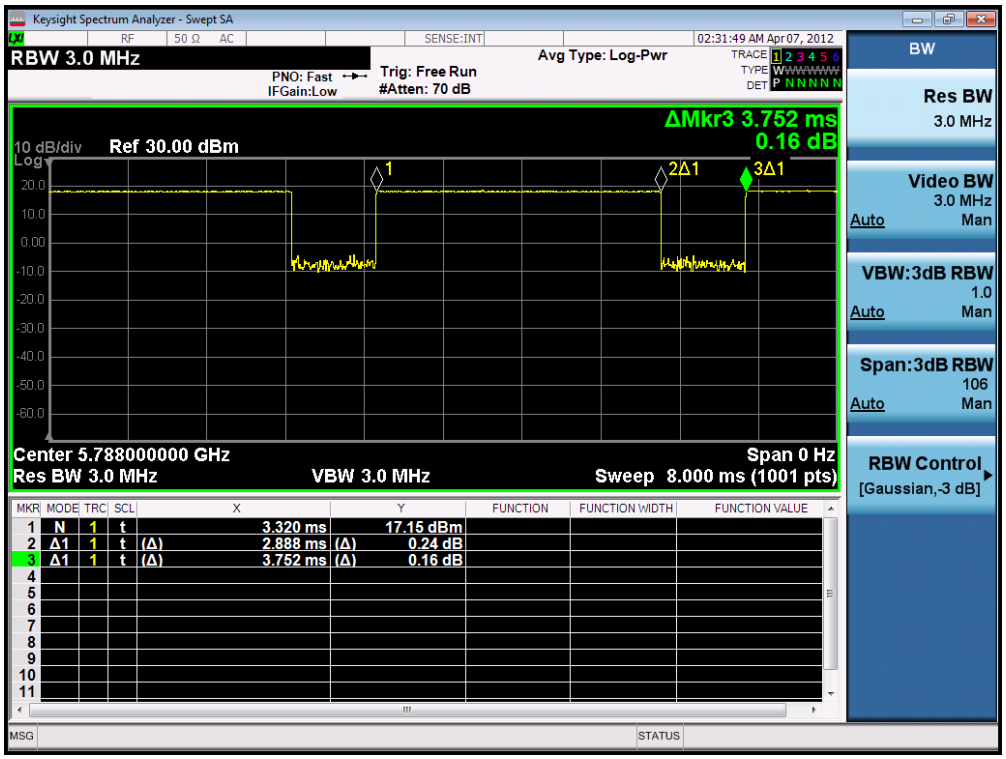

Figure 8-15
NB UNII-3 Transmission Plot – Antenna 4a, Variant 2

Equation 8-12
NB UNII-3 Duty Cycle Calculation – Antenna 4a, Variant 2

$$Duty\ Cycle = \frac{Pulse\ Width}{Period} * 100\% = \frac{2.888}{3.752} * 100\% = 77\%$$

8.8 Bluetooth Power Reduction Verification Summary

Table 8-87
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 Target Power [dBm] (Tolerance [dB])	Reduced Target Power [dBm] (Tolerance [dB])	Maximum Measured Power [dBm]	Reduced Measured Power [dBm]	Verdict
Ant 4A	5 GHz Bluetooth	Main Band 3 ON	10.5	7.5	9.00 (+1.5/-2)	6.00 (+1.5/-2)	10.09	7.10	PASS
	5 GHz Bluetooth	Main Band 4B ON	10.5	7.5	9.00 (+1.5/-2)	6.00 (+1.5/-2)	10.09	6.95	PASS
	5 GHz Bluetooth	ULCA ON	10.5	3.5	9.00 (+1.5/-2)	2.00 (+1.5/-2)	10.09	2.86	PASS
	5 GHz Bluetooth	2.4 GHz WLAN Ant 4a/2a	10.5	5.5	9.00 (+1.5/-2)	4.00 (+1.5/-2)	10.09	4.94	PASS
	5 GHz Bluetooth	ULCA ON an 2.4 GHz WLAN 2A/4A ON	10.5	3.5	9.00 (+1.5/-2)	2.00 (+1.5/-2)	10.09	2.86	PASS
	5 GHz Bluetooth	Main band Ant 3 ON and 2.4 GHZ WLAN 2A/4A ON	10.5	3.5	9.00 (+1.5/-2)	2.00 (+1.5/-2)	10.09	3.05	PASS
	5 GHz Bluetooth	Main band Ant 4B ON and 2.4 GHZ WLAN 2A/4A ON	10.5	3.5	9.00 (+1.5/-2)	2.00 (+1.5/-2)	10.09	3.01	PASS
	5 GHz Bluetooth	Main band Ant 1 ON and 2.4 GHZ WLAN 2A/4A ON	10.5	5.5	9.00 (+1.5/-2)	4.00 (+1.5/-2)	10.09	4.76	PASS
	5 GHz Bluetooth	Main band Ant 2A/2B ON and 2.4 GHZ WLAN 2A/4A ON	10.5	5.5	9.00 (+1.5/-2)	4.00 (+1.5/-2)	10.09	4.84	PASS
Ant 5B	5 GHz Bluetooth	Main Band 1 ON	16	12	14.50 (+1.5/-2)	10.50 (+1.5/-2)	15.55	11.36	PASS
	5 GHz Bluetooth	Main Band 2B/2A ON	16	12	14.50 (+1.5/-2)	10.50 (+1.5/-2)	15.55	11.28	PASS
	5 GHz Bluetooth	ULCA ON	16	9	14.50 (+1.5/-2)	7.50 (+1.5/-2)	15.55	8.35	PASS
	5 GHz Bluetooth	2.4 GHz WLAN Ant 4a/2a	16	12	14.50 (+1.5/-2)	10.50 (+1.5/-2)	15.55	11.28	PASS
	5 GHz Bluetooth	ULCA ON an 2.4 GHz WLAN 2A/4A ON	16	9	14.50 (+1.5/-2)	7.50 (+1.5/-2)	15.55	11.18	PASS
	5 GHz Bluetooth	Main band Ant 1 ON and 2.4 GHZ WLAN 2A/4A ON	16	12	14.50 (+1.5/-2)	10.50 (+1.5/-2)	15.55	11.49	PASS
	5 GHz Bluetooth	Main band Ant 2A/2B ON and 2.4 GHZ WLAN 2A/4A ON	16	9	14.50 (+1.5/-2)	7.50 (+1.5/-2)	15.55	8.30	PASS
	5 GHz Bluetooth	Main band Ant 4B ON and 2.4 GHZ WLAN 2A/4A ON	16	12	14.50 (+1.5/-2)	10.50 (+1.5/-2)	15.55	11.15	PASS
	5 GHz Bluetooth	Main band Ant 3 ON and 2.4 GHZ WLAN 2A/4A ON	16	12	14.50 (+1.5/-2)	10.50 (+1.5/-2)	15.55	11.10	PASS
Ant 2A	2.4 GHz Bluetooth	Main Band 1 ON	13	9	11.50 (+1.5/-2)	7.50 (+1.5/-2)	11.54	7.61	PASS
	2.4 GHz Bluetooth	Main Band 2A/2B ON	13	9	11.50 (+1.5/-2)	7.50 (+1.5/-2)	11.54	7.52	PASS
	2.4 GHz Bluetooth	ULCA ON	13	6	11.50 (+1.5/-2)	4.50 (+1.5/-2)	11.54	5.10	PASS
	2.4 GHz Bluetooth	Main band Ant 1 ON and 5 GHZ WLAN 5B/4A ON	13	9	11.50 (+1.5/-2)	7.50 (+1.5/-2)	11.54	7.51	PASS
	2.4 GHz Bluetooth	Main band Ant 2A/2B ON and 5 GHz WLAN Ant 5B/4A ON	13	6	11.50 (+1.5/-2)	4.50 (+1.5/-2)	11.54	4.46	PASS
	2.4 GHz Bluetooth	Main band Ant 3 ON and 5 GHz WLAN Ant 5B/4A ON	13	9	11.50 (+1.5/-2)	7.50 (+1.5/-2)	11.54	7.58	PASS
	2.4 GHz Bluetooth	Main Band Ant 4B ON and 5 GHz WLAN Ant 5B/4A ON	13	9	11.50 (+1.5/-2)	7.50 (+1.5/-2)	11.54	7.52	PASS
	2.4 GHz Bluetooth	ULCA ON an 5 GHz WLAN 5B/4A ON	13	6	11.50 (+1.5/-2)	4.50 (+1.5/-2)	11.54	4.48	PASS
	2.4 GHz Bluetooth	5 GHz WLAN Ant 5B/4A ON	13	9	11.50 (+1.5/-2)	7.50 (+1.5/-2)	11.54	7.84	PASS
Ant 4A	2.4 GHz Bluetooth	Main Band 3 ON	14	11	12.50 (+1.5/-2)	9.50 (+1.5/-2)	12.30	8.23	PASS
	2.4 GHz Bluetooth	Main Band 4B ON	14	11	12.50 (+1.5/-2)	9.50 (+1.5/-2)	12.30	8.91	PASS
	2.4 GHz Bluetooth	ULCA ON	14	7	12.50 (+1.5/-2)	5.50 (+1.5/-2)	12.30	5.89	PASS
	2.4 GHz Bluetooth	Main band Ant 1 ON and 5 GHZ WLAN 5B/4A ON	14	9	12.50 (+1.5/-2)	7.50 (+1.5/-2)	12.30	7.62	PASS
	2.4 GHz Bluetooth	Main band Ant 2A/2B ON and 5 GHZ WLAN 5B/4A ON	14	9	12.50 (+1.5/-2)	7.50 (+1.5/-2)	12.30	7.57	PASS
	2.4 GHz Bluetooth	Main band Ant 3 ON and 5 GHZ WLAN 5B/4A ON	14	7	12.50 (+1.5/-2)	5.50 (+1.5/-2)	12.30	5.97	PASS
	2.4 GHz Bluetooth	Main band Ant 4B ON and 5 GHZ WLAN 5B/4A ON	14	7	12.50 (+1.5/-2)	5.50 (+1.5/-2)	12.30	5.87	PASS
	2.4 GHz Bluetooth	ULCA ON and 5 GHz WLAN 5B/4A ON	14	7	12.50 (+1.5/-2)	5.50 (+1.5/-2)	12.30	5.82	PASS
	2.4 GHz Bluetooth	5 GHZ WLAN 5B/4A ON	14	9	12.50 (+1.5/-2)	7.50 (+1.5/-2)	12.30	7.77	PASS

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

8.9 Notes for Bluetooth

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

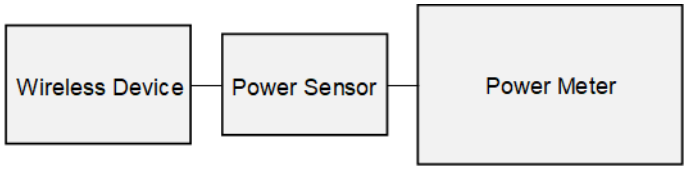

Figure 8-12
Power Measurement Setup

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
06/30/2022	750 Head	20.9	700	0.845	43.245	0.889	42.201	-4.95%	2.47%
			710	0.854	43.111	0.890	42.149	-4.04%	2.28%
			725	0.868	42.903	0.891	42.071	-2.58%	1.98%
			750	0.893	42.538	0.894	41.942	-0.11%	1.42%
			770	0.913	42.261	0.895	41.838	2.01%	1.01%
			785	0.927	42.058	0.896	41.760	3.46%	0.71%
			800	0.940	41.857	0.897	41.682	4.79%	0.42%
07/10/2022	750 Head	21.3	695	0.845	43.051	0.889	42.227	-4.95%	1.95%
			700	0.850	42.984	0.889	42.201	-4.39%	1.86%
			710	0.858	42.850	0.890	42.149	-3.60%	1.66%
			725	0.872	42.640	0.891	42.071	-2.13%	1.35%
			750	0.896	42.282	0.894	41.942	0.22%	0.81%
			770	0.914	42.026	0.895	41.838	2.12%	0.45%
			785	0.928	41.844	0.896	41.760	3.57%	0.20%
07/12/2022	750 Head	20.7	700	0.845	43.223	0.889	42.201	-4.95%	2.42%
			710	0.854	43.094	0.890	42.149	-4.04%	2.24%
			725	0.868	42.896	0.891	42.071	-2.58%	1.96%
			750	0.892	42.564	0.894	41.942	-0.22%	1.48%
			770	0.911	42.297	0.895	41.838	1.79%	1.10%
			785	0.925	42.094	0.896	41.760	3.24%	0.80%
			800	0.938	41.899	0.897	41.682	4.57%	0.52%
07/12/2022	750 Head	20.5	680	0.847	43.064	0.888	42.305	-4.62%	1.79%
			695	0.851	43.017	0.889	42.227	-4.27%	1.87%
			700	0.852	43.003	0.889	42.201	-4.16%	1.90%
			710	0.855	42.979	0.890	42.149	-3.93%	1.97%
			725	0.859	42.943	0.891	42.071	-3.59%	2.07%
			750	0.869	42.907	0.894	41.942	-2.80%	2.30%
			770	0.876	42.881	0.895	41.838	-2.12%	2.49%
			785	0.882	42.839	0.896	41.760	-1.56%	2.58%
			800	0.887	42.780	0.897	41.682	-1.11%	2.63%
07/19/2022	750 Head	20.9	680	0.871	40.574	0.888	42.305	-1.91%	-4.09%
			695	0.874	40.569	0.889	42.227	-1.69%	-3.93%
			700	0.875	40.560	0.889	42.201	-1.57%	-3.89%
			710	0.877	40.530	0.890	42.149	-1.46%	-3.84%
			725	0.880	40.461	0.891	42.071	-1.23%	-3.83%
			750	0.889	40.354	0.894	41.942	-0.56%	-3.79%
			770	0.898	40.324	0.895	41.838	0.34%	-3.62%
			785	0.905	40.312	0.896	41.760	1.00%	-3.47%
			800	0.909	40.288	0.897	41.682	1.34%	-3.34%
07/25/2022	750 Head	21.0	680	0.876	40.682	0.888	42.305	-1.35%	-3.84%
			695	0.880	40.623	0.889	42.227	-1.01%	-3.80%
			700	0.882	40.608	0.889	42.201	-0.79%	-3.77%
			710	0.886	40.579	0.890	42.149	-0.45%	-3.72%
			725	0.892	40.556	0.891	42.071	0.11%	-3.60%
			750	0.901	40.511	0.894	41.942	0.78%	-3.41%
			770	0.906	40.444	0.895	41.838	1.23%	-3.33%
			785	0.911	40.401	0.896	41.760	1.67%	-3.25%
			800	0.916	40.361	0.897	41.682	2.12%	-3.17%
09/02/2022	750 Head	20.5	680	0.875	41.903	0.888	42.305	-1.46%	-0.95%
			695	0.881	41.845	0.889	42.227	-0.90%	-0.90%
			700	0.883	41.830	0.889	42.201	-0.67%	-0.88%
			710	0.886	41.807	0.890	42.149	-0.45%	-0.81%
			725	0.892	41.763	0.891	42.071	0.11%	-0.73%
			750	0.901	41.688	0.894	41.942	0.78%	-0.61%
			770	0.908	41.617	0.895	41.838	1.45%	-0.53%
			785	0.913	41.569	0.896	41.760	1.90%	-0.46%
			800	0.919	41.522	0.897	41.682	2.45%	-0.38%
06/28/2022	835 Head	21.2	815	0.871	40.650	0.898	41.594	-3.01%	-2.27%
			820	0.876	40.585	0.899	41.578	-2.56%	-2.39%
			835	0.890	40.386	0.900	41.500	-1.11%	-2.68%
			850	0.904	40.193	0.916	41.500	-1.31%	-3.15%
07/03/2022	835 Head	20.1	815	0.856	40.713	0.898	41.594	-4.68%	-2.12%
			820	0.861	40.651	0.899	41.578	-4.23%	-2.23%
			835	0.875	40.476	0.900	41.500	-2.78%	-2.47%
			850	0.888	40.312	0.916	41.500	-3.06%	-2.86%
07/07/2022	835 Head	21.7	815	0.872	40.283	0.898	41.594	-2.90%	-3.15%
			820	0.876	40.219	0.899	41.578	-2.56%	-3.27%
			835	0.890	40.031	0.900	41.500	-1.11%	-3.54%
			850	0.904	39.856	0.916	41.500	-1.31%	-3.96%
07/12/2022	835 Head	21.9	815	0.856	40.007	0.898	41.594	-4.68%	-3.82%
			820	0.861	39.943	0.899	41.578	-4.23%	-3.93%
			835	0.875	39.759	0.900	41.500	-2.78%	-4.20%
			850	0.889	39.585	0.916	41.500	-2.95%	-4.61%
06/28/2022	1750 Head	21.4	1710	1.353	38.325	1.348	40.142	0.37%	-4.53%
			1720	1.358	38.310	1.354	40.126	0.30%	-4.53%
			1745	1.369	38.289	1.368	40.087	0.07%	-4.49%
			1750	1.371	38.286	1.371	40.079	0.00%	-4.47%
			1770	1.381	38.279	1.383	40.047	-0.14%	-4.41%

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
07/11/2022	1750 Head	21.4	1710	1.292	39.396	1.348	40.142	-4.15%	-1.86%
			1720	1.301	39.352	1.354	40.126	-3.91%	-1.93%
			1745	1.323	39.244	1.368	40.087	-3.29%	-2.10%
			1750	1.327	39.223	1.371	40.079	-3.21%	-2.14%
			1770	1.344	39.132	1.383	40.047	-2.82%	-2.28%
			1790	1.361	39.043	1.394	40.016	-2.37%	-2.43%
07/14/2022	1750 Head	21.7	1710	1.360	38.906	1.348	40.142	0.89%	-3.08%
			1720	1.366	38.889	1.354	40.126	0.89%	-3.08%
			1745	1.381	38.848	1.368	40.087	0.95%	-3.09%
			1750	1.384	38.839	1.371	40.079	0.95%	-3.09%
			1770	1.396	38.802	1.383	40.047	0.94%	-3.11%
07/18/2022	1750 Head	20.1	1710	1.316	38.449	1.348	40.142	-2.37%	-4.22%
			1720	1.322	38.435	1.354	40.126	-2.36%	-4.21%
			1745	1.338	38.384	1.368	40.087	-2.19%	-4.25%
			1750	1.341	38.373	1.371	40.079	-2.19%	-4.26%
			1770	1.353	38.334	1.383	40.047	-2.17%	-4.28%
			1790	1.364	38.293	1.394	40.016	-2.15%	-4.31%
06/28/2022	1900 Head	19.5	1850	1.386	39.160	1.400	40.000	-1.00%	-2.10%
			1860	1.391	39.135	1.400	40.000	-0.64%	-2.16%
			1880	1.402	39.090	1.400	40.000	0.14%	-2.27%
			1900	1.413	39.060	1.400	40.000	0.93%	-2.35%
			1905	1.415	39.053	1.400	40.000	1.07%	-2.37%
			1910	1.418	39.047	1.400	40.000	1.29%	-2.38%
06/30/2022	1900 Head	19.6	1850	1.405	39.768	1.400	40.000	0.36%	-0.58%
			1860	1.411	39.750	1.400	40.000	0.79%	-0.63%
			1880	1.424	39.715	1.400	40.000	1.71%	-0.71%
			1900	1.436	39.689	1.400	40.000	2.57%	-0.78%
			1905	1.439	39.682	1.400	40.000	2.79%	-0.79%
			1910	1.442	39.676	1.400	40.000	3.00%	-0.81%
07/12/2022	1900 Head	20.5	1850	1.417	38.353	1.400	40.000	1.21%	-4.12%
			1860	1.423	38.335	1.400	40.000	1.64%	-4.16%
			1880	1.435	38.309	1.400	40.000	2.50%	-4.23%
			1900	1.446	38.290	1.400	40.000	3.29%	-4.28%
			1905	1.449	38.285	1.400	40.000	3.50%	-4.29%
			1910	1.452	38.278	1.400	40.000	3.71%	-4.31%
06/22/2022	2450 Head	24.7	2300	1.681	38.834	1.670	39.500	0.66%	-1.69%
			2310	1.693	38.798	1.679	39.480	0.83%	-1.73%
			2320	1.704	38.762	1.687	39.460	1.01%	-1.77%
			2400	1.795	38.443	1.756	39.289	2.22%	-2.15%
			2450	1.854	38.236	1.800	39.200	3.00%	-2.46%
			2480	1.887	38.114	1.833	39.162	2.95%	-2.68%
			2500	1.909	38.036	1.855	39.136	2.91%	-2.81%
			2510	1.920	37.995	1.866	39.123	2.89%	-2.88%
			2535	1.949	37.891	1.893	39.092	2.96%	-3.07%
			2550	1.967	37.829	1.909	39.073	3.04%	-3.18%
			2560	1.979	37.786	1.920	39.060	3.07%	-3.26%
			2600	2.025	37.628	1.964	39.009	3.11%	-3.54%
			2650	2.083	37.422	2.018	38.945	3.22%	-3.91%
			2680	2.120	37.291	2.051	38.907	3.36%	-4.15%
			2700	2.142	37.215	2.073	38.882	3.33%	-4.29%
06/28/2022	2450 Head	24.1	2300	1.673	39.032	1.670	39.500	0.18%	-1.18%
			2310	1.685	38.993	1.679	39.480	0.36%	-1.23%
			2320	1.697	38.953	1.687	39.460	0.59%	-1.28%
			2400	1.792	38.654	1.756	39.289	2.05%	-1.62%
			2450	1.855	38.462	1.800	39.200	3.06%	-1.88%
			2480	1.890	38.340	1.833	39.162	3.11%	-2.10%
			2500	1.915	38.254	1.855	39.136	3.23%	-2.25%
			2510	1.927	38.215	1.866	39.123	3.27%	-2.32%
			2535	1.958	38.114	1.893	39.092	3.43%	-2.50%
			2550	1.976	38.049	1.909	39.073	3.51%	-2.62%
			2560	1.987	38.002	1.920	39.060	3.49%	-2.71%
			2600	2.035	37.828	1.964	39.009	3.62%	-3.03%
			2650	2.095	37.627	2.018	38.945	3.82%	-3.38%
			2680	2.130	37.508	2.051	38.907	3.85%	-3.60%
			2700	2.154	37.422	2.073	38.882	3.91%	-3.75%
06/29/2022	2450 Head	20.4	2300	1.701	39.313	1.670	39.500	1.86%	-0.47%
			2310	1.709	39.302	1.679	39.480	1.79%	-0.45%
			2320	1.717	39.292	1.687	39.460	1.78%	-0.43%
			2400	1.778	39.162	1.756	39.289	1.25%	-0.32%
			2450	1.817	39.094	1.800	39.200	0.94%	-0.27%
			2480	1.839	39.041	1.833	39.162	0.33%	-0.31%
			2500	1.854	39.004	1.855	39.136	-0.05%	-0.34%
			2510	1.862	38.988	1.866	39.123	-0.21%	-0.35%
			2535	1.883	38.950	1.893	39.092	-0.53%	-0.36%
			2550	1.895	38.928	1.909	39.073	-0.73%	-0.37%
			2560	1.902	38.911	1.920	39.060	-0.94%	-0.38%
			2600	1.934	38.833	1.964	39.009	-1.53%	-0.45%
			2650	1.975	38.750	2.018	38.945	-2.13%	-0.50%
			2680	2.000	38.694	2.051	38.907	-2.49%	-0.55%
			2700	2.016	38.662	2.073	38.882	-2.75%	-0.57%

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
07/12/2022	2450 Head	23.6	2300	1.695	39.063	1.670	39.500	1.50%	-1.11%
			2310	1.706	39.017	1.679	39.480	1.61%	-1.17%
			2320	1.718	38.973	1.687	39.460	1.84%	-1.23%
			2400	1.810	38.656	1.756	39.289	3.08%	-1.61%
			2450	1.870	38.464	1.800	39.200	3.89%	-1.88%
			2480	1.902	38.337	1.833	39.162	3.76%	-2.11%
			2500	1.926	38.249	1.855	39.136	3.83%	-2.27%
			2510	1.938	38.208	1.866	39.123	3.86%	-2.34%
			2535	1.968	38.118	1.893	39.092	3.96%	-2.49%
			2550	1.985	38.063	1.909	39.073	3.98%	-2.58%
			2560	1.996	38.021	1.920	39.060	3.96%	-2.66%
			2600	2.043	37.845	1.964	39.009	4.02%	-2.98%
			2650	2.102	37.649	2.018	38.945	4.16%	-3.33%
			2680	2.136	37.514	2.051	38.907	4.14%	-3.58%
			2700	2.160	37.426	2.073	38.882	4.20%	-3.74%
07/17/2022	2450 Head	21.1	2300	1.747	41.246	1.670	39.500	4.61%	4.42%
			2310	1.755	41.231	1.679	39.480	4.53%	4.44%
			2320	1.764	41.215	1.687	39.460	4.56%	4.45%
			2400	1.830	41.112	1.756	39.289	4.21%	4.64%
			2450	1.875	41.056	1.800	39.200	4.17%	4.73%
			2480	1.898	41.000	1.833	39.162	3.55%	4.69%
			2500	1.917	40.961	1.855	39.136	3.34%	4.66%
			2510	1.926	40.947	1.866	39.123	3.22%	4.66%
			2535	1.948	40.920	1.893	39.092	2.91%	4.68%
			2550	1.960	40.896	1.909	39.073	2.67%	4.67%
			2560	1.968	40.878	1.920	39.060	2.50%	4.65%
			2600	2.005	40.801	1.964	39.009	2.09%	4.59%
			2650	2.049	40.730	2.018	38.945	1.54%	4.58%
			2680	2.076	40.666	2.051	38.907	1.22%	4.52%
			2700	2.095	40.619	2.073	38.882	1.06%	4.47%
07/31/2022	2450 Head	21.5	2300	1.694	38.410	1.670	39.500	1.44%	-2.76%
			2310	1.700	38.399	1.679	39.480	1.25%	-2.74%
			2320	1.707	38.385	1.687	39.460	1.19%	-2.72%
			2400	1.766	38.307	1.756	39.289	0.57%	-2.50%
			2450	1.806	38.248	1.800	39.200	0.33%	-2.43%
			2480	1.828	38.218	1.833	39.162	-0.27%	-2.41%
			2500	1.841	38.178	1.855	39.136	-0.75%	-2.45%
			2510	1.848	38.159	1.866	39.123	-0.96%	-2.46%
			2535	1.869	38.128	1.893	39.092	-1.27%	-2.47%
			2550	1.882	38.116	1.909	39.073	-1.41%	-2.45%
			2560	1.890	38.105	1.920	39.060	-1.56%	-2.44%
			2600	1.919	38.034	1.964	39.009	-2.29%	-2.50%
			2650	1.958	37.954	2.018	38.945	-2.97%	-2.54%
			2680	1.982	37.908	2.051	38.907	-3.36%	-2.57%
			2700	1.996	37.875	2.073	38.882	-3.71%	-2.59%
08/02/2022	2450 Head	22.1	2300	1.691	37.704	1.670	39.500	1.26%	-4.55%
			2310	1.698	37.688	1.679	39.480	1.13%	-4.54%
			2320	1.705	37.673	1.687	39.460	1.07%	-4.53%
			2400	1.763	37.591	1.756	39.289	0.40%	-4.32%
			2450	1.802	37.508	1.800	39.200	0.11%	-4.32%
			2480	1.823	37.471	1.833	39.162	-0.55%	-4.32%
			2500	1.838	37.439	1.855	39.136	-0.92%	-4.34%
			2510	1.845	37.420	1.866	39.123	-1.13%	-4.35%
			2535	1.865	37.375	1.893	39.092	-1.48%	-4.39%
			2550	1.877	37.353	1.909	39.073	-1.68%	-4.40%
			2560	1.884	37.339	1.920	39.060	-1.88%	-4.41%
			2600	1.913	37.269	1.964	39.009	-2.60%	-4.46%
			2650	1.952	37.178	2.018	38.945	-3.27%	-4.54%
			2680	1.974	37.132	2.051	38.907	-3.75%	-4.56%
			2700	1.988	37.097	2.073	38.882	-4.10%	-4.59%
08/29/2022	2450 Head	20.3	2300	1.716	38.423	1.670	39.500	2.75%	-2.73%
			2310	1.724	38.400	1.679	39.480	2.68%	-2.74%
			2320	1.732	38.379	1.687	39.460	2.67%	-2.74%
			2400	1.792	38.252	1.756	39.289	2.05%	-2.64%
			2450	1.833	38.179	1.800	39.200	1.83%	-2.60%
			2480	1.852	38.118	1.833	39.162	1.04%	-2.67%
			2500	1.870	38.073	1.855	39.136	0.81%	-2.72%
			2510	1.879	38.058	1.866	39.123	0.70%	-2.72%
			2535	1.900	38.032	1.893	39.092	0.37%	-2.71%
			2550	1.911	38.012	1.909	39.073	0.10%	-2.72%
			2560	1.917	37.992	1.920	39.060	-0.16%	-2.73%
			2600	1.953	37.906	1.964	39.009	-0.56%	-2.83%
			2650	1.994	37.842	2.018	38.945	-1.19%	-2.83%
			2680	2.018	37.760	2.051	38.907	-1.61%	-2.95%
			2700	2.037	37.715	2.073	38.882	-1.74%	-3.00%

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
			3300	2.751	36.717	2.708	38.157	1.59%	-3.77%
			3350	2.791	36.667	2.759	38.100	1.16%	-3.76%
			3450	2.864	36.550	2.861	37.986	0.10%	-3.78%
			3500	2.901	36.461	2.913	37.929	-0.41%	-3.87%
			3550	2.936	36.425	2.964	37.871	-0.94%	-3.82%
			3560	2.944	36.405	2.974	37.860	-1.01%	-3.84%
			3600	2.975	36.345	3.015	37.814	-1.33%	-3.88%
07/06/2022	3600 Head	21.3	3650	3.014	36.289	3.066	37.757	-1.70%	-3.89%
			3690	3.042	36.227	3.107	37.711	-2.09%	-3.94%
			3700	3.050	36.212	3.117	37.700	-2.15%	-3.95%
			3750	3.094	36.168	3.169	37.643	-2.37%	-3.92%
			3900	3.216	35.989	3.323	37.471	-3.22%	-3.96%
			3930	3.247	35.957	3.353	37.437	-3.16%	-3.95%
			4100	3.389	35.773	3.528	37.243	-3.94%	-3.95%
			4150	3.433	35.721	3.579	37.186	-4.08%	-3.94%
			3300	2.756	37.235	2.708	38.157	1.77%	-2.42%
			3350	2.797	37.164	2.759	38.100	1.38%	-2.46%
			3450	2.876	37.034	2.861	37.986	0.52%	-2.51%
			3500	2.914	36.949	2.913	37.929	0.03%	-2.58%
			3550	2.950	36.903	2.964	37.871	-0.47%	-2.56%
			3560	2.958	36.883	2.974	37.860	-0.54%	-2.58%
			3600	2.992	36.836	3.015	37.814	-0.76%	-2.59%
07/06/2022	3600 Head	19.6	3650	3.032	36.762	3.066	37.757	-1.11%	-2.64%
			3690	3.064	36.723	3.107	37.711	-1.38%	-2.62%
			3700	3.072	36.704	3.117	37.700	-1.44%	-2.64%
			3750	3.115	36.643	3.169	37.643	-1.70%	-2.66%
			3900	3.243	36.446	3.323	37.471	-2.41%	-2.74%
			3930	3.273	36.408	3.353	37.437	-2.39%	-2.75%
			4100	3.426	36.211	3.528	37.243	-2.89%	-2.77%
			4150	3.471	36.156	3.579	37.186	-3.02%	-2.77%
			5180	4.509	35.801	4.635	36.009	-2.72%	-0.58%
			5190	4.521	35.793	4.645	35.998	-2.67%	-0.57%
			5200	4.533	35.784	4.655	35.986	-2.62%	-0.56%
			5210	4.542	35.767	4.666	35.975	-2.66%	-0.58%
			5220	4.550	35.742	4.676	35.963	-2.69%	-0.61%
			5240	4.572	35.693	4.696	35.940	-2.64%	-0.69%
			5250	4.585	35.673	4.706	35.929	-2.57%	-0.71%
			5260	4.598	35.653	4.717	35.917	-2.52%	-0.74%
			5270	4.609	35.629	4.727	35.906	-2.50%	-0.77%
			5280	4.620	35.610	4.737	35.894	-2.47%	-0.79%
			5290	4.630	35.585	4.748	35.883	-2.49%	-0.83%
			5300	4.640	35.564	4.758	35.871	-2.48%	-0.86%
			5310	4.651	35.554	4.768	35.860	-2.45%	-0.85%
			5320	4.664	35.545	4.778	35.849	-2.39%	-0.85%
			5500	4.868	35.223	4.963	35.643	-1.91%	-1.18%
			5510	4.881	35.212	4.973	35.632	-1.85%	-1.18%
			5520	4.893	35.197	4.983	35.620	-1.81%	-1.19%
			5530	4.908	35.183	4.994	35.609	-1.72%	-1.20%
			5540	4.920	35.161	5.004	35.597	-1.68%	-1.22%
			5550	4.931	35.148	5.014	35.586	-1.66%	-1.23%
			5560	4.943	35.132	5.024	35.574	-1.61%	-1.24%
			5580	4.966	35.106	5.045	35.551	-1.57%	-1.25%
			5600	4.986	35.072	5.065	35.529	-1.56%	-1.29%
			5610	5.000	35.051	5.076	35.518	-1.50%	-1.31%
			5620	5.014	35.031	5.086	35.506	-1.42%	-1.34%
			5640	5.037	35.009	5.106	35.483	-1.35%	-1.34%
			5660	5.056	34.979	5.127	35.460	-1.38%	-1.36%
07/10/2022	5200-5800 Head	21.1	5670	5.066	34.956	5.137	35.449	-1.38%	-1.39%
			5680	5.075	34.934	5.147	35.437	-1.40%	-1.42%
			5690	5.085	34.919	5.158	35.426	-1.42%	-1.43%
			5700	5.098	34.901	5.168	35.414	-1.35%	-1.45%
			5710	5.110	34.881	5.178	35.403	-1.31%	-1.47%
			5720	5.122	34.858	5.188	35.391	-1.27%	-1.51%
			5745	5.146	34.811	5.214	35.363	-1.30%	-1.56%
			5750	5.153	34.803	5.219	35.357	-1.26%	-1.57%
			5755	5.160	34.795	5.224	35.351	-1.23%	-1.57%
			5765	5.171	34.779	5.234	35.340	-1.20%	-1.59%
			5775	5.180	34.759	5.245	35.329	-1.24%	-1.61%
			5785	5.191	34.740	5.255	35.317	-1.22%	-1.63%
			5795	5.203	34.719	5.265	35.305	-1.18%	-1.66%
			5800	5.209	34.709	5.270	35.300	-1.16%	-1.67%
			5800	5.209	34.709	5.270	35.300	-1.16%	-1.67%
			5805	5.217	34.697	5.275	35.294	-1.10%	-1.69%
			5825	5.240	34.654	5.296	35.271	-1.06%	-1.75%
			5835	5.252	34.637	5.305	35.230	-1.00%	-1.68%
			5845	5.262	34.619	5.315	35.210	-1.00%	-1.68%
			5855	5.272	34.605	5.325	35.197	-1.00%	-1.68%
			5865	5.282	34.588	5.336	35.190	-1.01%	-1.71%
			5865	5.282	34.588	5.336	35.190	-1.01%	-1.71%
			5865	5.282	34.588	5.336	35.190	-1.01%	-1.71%
			5865	5.282	34.588	5.336	35.190	-1.01%	-1.71%
			5875	5.294	34.568	5.347	35.183	-0.99%	-1.75%
			5885	5.309	34.547	5.357	35.177	-0.90%	-1.79%
			5905	5.337	34.503	5.379	35.163	-0.78%	-1.88%

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
07/31/2022	5200-5800 Head	21.7	5180	4.502	36.028	4.635	36.009	-2.87%	0.05%
			5190	4.512	36.016	4.645	35.998	-2.86%	0.05%
			5200	4.523	35.993	4.655	35.986	-2.84%	0.02%
			5210	4.534	35.968	4.666	35.975	-2.83%	-0.02%
			5220	4.546	35.945	4.676	35.963	-2.78%	-0.05%
			5240	4.575	35.909	4.696	35.940	-2.58%	-0.09%
			5250	4.587	35.893	4.706	35.929	-2.53%	-0.10%
			5260	4.598	35.876	4.717	35.917	-2.52%	-0.11%
			5270	4.605	35.864	4.727	35.906	-2.58%	-0.12%
			5280	4.610	35.841	4.737	35.894	-2.68%	-0.15%
			5290	4.619	35.816	4.748	35.883	-2.72%	-0.19%
			5300	4.632	35.797	4.758	35.871	-2.65%	-0.21%
			5310	4.647	35.787	4.768	35.860	-2.54%	-0.20%
			5320	4.662	35.767	4.778	35.849	-2.43%	-0.23%
			5500	4.861	35.462	4.963	35.643	-2.06%	-0.51%
			5510	4.872	35.447	4.973	35.632	-2.03%	-0.52%
			5520	4.885	35.439	4.983	35.620	-1.97%	-0.51%
			5530	4.898	35.422	4.994	35.609	-1.92%	-0.53%
			5540	4.913	35.407	5.004	35.597	-1.82%	-0.53%
			5550	4.924	35.387	5.014	35.586	-1.79%	-0.56%
			5560	4.935	35.370	5.024	35.574	-1.77%	-0.57%
			5580	4.957	35.335	5.045	35.551	-1.74%	-0.61%
			5600	4.983	35.297	5.065	35.529	-1.62%	-0.65%
			5610	4.993	35.282	5.076	35.518	-1.64%	-0.66%
			5620	5.003	35.266	5.086	35.506	-1.63%	-0.68%
			5640	5.028	35.227	5.106	35.483	-1.53%	-0.72%
			5660	5.046	35.205	5.127	35.460	-1.58%	-0.72%
			5670	5.058	35.191	5.137	35.449	-1.54%	-0.73%
			5680	5.068	35.174	5.147	35.437	-1.53%	-0.74%
			5690	5.081	35.161	5.158	35.426	-1.49%	-0.75%
			5700	5.092	35.137	5.168	35.414	-1.47%	-0.78%
			5710	5.104	35.112	5.178	35.403	-1.43%	-0.82%
			5720	5.119	35.090	5.188	35.391	-1.33%	-0.85%
			5745	5.143	35.039	5.214	35.363	-1.36%	-0.92%
			5750	5.148	35.033	5.219	35.357	-1.36%	-0.92%
			5755	5.152	35.029	5.224	35.351	-1.38%	-0.91%
			5765	5.165	35.019	5.234	35.340	-1.32%	-0.91%
			5775	5.179	34.994	5.245	35.329	-1.26%	-0.95%
			5785	5.190	34.964	5.255	35.317	-1.24%	-1.00%
			5795	5.199	34.945	5.265	35.305	-1.25%	-1.02%
			5800	5.203	34.940	5.270	35.300	-1.27%	-1.02%
			5800	5.203	34.940	5.270	35.300	-1.27%	-1.02%
			5805	5.209	34.936	5.275	35.294	-1.25%	-1.01%
			5825	5.237	34.913	5.296	35.271	-1.11%	-1.01%
			5835	5.251	34.895	5.305	35.230	-1.02%	-0.95%
			5845	5.262	34.883	5.315	35.210	-1.00%	-0.93%
			5855	5.268	34.867	5.325	35.197	-1.07%	-0.94%
			5865	5.279	34.847	5.336	35.190	-1.07%	-0.97%
			5865	5.279	34.847	5.336	35.190	-1.07%	-0.97%
			5865	5.279	34.847	5.336	35.190	-1.07%	-0.97%
			5865	5.279	34.847	5.336	35.190	-1.07%	-0.97%
			5875	5.291	34.828	5.347	35.183	-1.05%	-1.01%
			5885	5.301	34.801	5.357	35.177	-1.05%	-1.07%
			5905	5.326	34.767	5.379	35.163	-0.99%	-1.13%

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.

9.2 Test System Verification

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

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	Measured SAR1g (W/kg)	1W Target SAR1g (W/kg)	1W Normalized SAR 1g (W/kg)	Deviation1g (%)
AM12	750	HEAD	06/30/2022	24.3	20.3	0.20	1094	7499	1.740	8.47	8.700	2.72%
AM12	750	HEAD	07/10/2022	20.1	19.8	0.20	1094	7499	1.760	8.47	8.800	3.90%
AM12	750	HEAD	07/12/2022	24.0	20.7	0.20	1097	7499	1.620	8.21	8.100	-1.34%
AM9	750	HEAD	07/12/2022	22.0	20.2	0.20	1097	7638	1.670	8.21	8.350	1.71%
AM12	750	HEAD	07/19/2022	23.8	20.9	0.20	1057	7499	1.670	8.51	8.350	-1.88%
AM12	750	HEAD	07/25/2022	21.8	20.5	0.20	1057	7499	1.770	8.51	8.850	4.00%
AM12	750	HEAD	09/02/2022	20.5	20.5	0.20	1057	7499	1.660	8.51	8.300	-2.47%
AM14	835	HEAD	06/28/2022	21.2	21.0	0.20	4d108	7674	1.860	9.70	9.300	-4.12%
AM14	835	HEAD	07/03/2022	21.0	21.5	0.20	4d040	7674	1.900	9.79	9.500	-2.96%
AM14	835	HEAD	07/07/2022	20.9	22.0	0.20	4d040	7674	1.920	9.79	9.600	-1.94%
AM14	835	HEAD	07/12/2022	23.5	20.8	0.20	4d040	7674	2.000	9.79	10.000	2.15%
AM13	1750	HEAD	06/28/2022	24.9	21.8	0.10	1083	7360	3.520	36.50	35.200	-3.56%
AM2	1750	HEAD	07/11/2022	22.8	21.5	0.10	1104	7421	3.720	35.70	37.200	4.20%
AM13	1750	HEAD	07/14/2022	24.1	22.3	0.10	1083	7360	3.450	36.50	34.500	-5.48%
AM8	1750	HEAD	07/18/2022	19.7	19.2	0.10	1104	7546	3.530	35.70	35.300	-1.12%
AM6	1900	HEAD	06/28/2022	21.4	18.8	0.10	5d180	7532	4.240	39.80	42.400	6.53%
AM6	1900	HEAD	06/30/2022	20.3	18.5	0.10	5d181	7532	4.010	40.10	40.100	0.00%
AM6	1900	HEAD	07/12/2022	22.3	19.1	0.10	5d030	7532	3.810	39.80	38.100	-4.27%
AM4	2300	HEAD	07/17/2022	21.9	20.9	0.10	1064	3837	4.920	48.90	49.200	0.61%
AM4	2300	HEAD	07/31/2022	23.1	21.3	0.10	1064	3837	4.950	48.90	49.500	1.23%
AM3	2450	HEAD	06/22/2022	23.4	23.0	0.10	921	7427	5.380	54.20	53.800	-0.74%
AM10	2450	HEAD	06/29/2022	23.1	20.6	0.10	855	7308	5.000	52.30	50.000	-4.40%
AM11	2450	HEAD	07/12/2022	22.7	22.5	0.10	855	7420	4.970	52.30	49.700	-4.97%
AM4	2450	HEAD	08/02/2022	23.8	21.7	0.10	921	3837	5.150	54.20	51.500	-4.98%
AM7	2450	HEAD	08/29/2022	21.3	20.4	0.10	750	7416	5.360	52.60	53.600	1.90%
AM11	2600	HEAD	06/28/2022	23.3	22.4	0.10	1069	7420	5.420	55.60	54.200	-2.52%
AM11	2600	HEAD	07/12/2022	22.7	22.5	0.10	1042	7420	5.750	55.80	57.500	3.05%
AM4	2600	HEAD	08/02/2022	23.8	21.7	0.10	1069	3837	5.470	55.60	54.700	-1.62%
AM7	2600	HEAD	08/29/2022	21.3	20.4	0.10	1042	7416	5.820	55.80	58.200	4.30%
AM1	3500	HEAD	07/06/2022	23.5	21.6	0.10	1055	7639	7.150	67.80	71.500	5.46%
AM7	3500	HEAD	07/06/2022	20.7	19.0	0.10	1055	7416	6.910	67.80	69.100	1.92%
AM1	3700	HEAD	07/06/2022	23.5	21.6	0.10	1002	7639	6.620	68.80	66.200	-3.78%
AM7	3700	HEAD	07/06/2022	20.7	19.0	0.10	1002	7416	6.920	68.80	69.200	0.58%
AM7	3900	HEAD	07/06/2022	20.7	19.0	0.10	1062	7416	6.840	68.60	68.400	-0.29%
AM9	5250	HEAD	07/10/2022	22.0	21.1	0.05	1123	7638	4.130	80.50	82.600	2.61%
AM9	5250	HEAD	07/31/2022	21.5	20.5	0.05	1123	7638	3.730	80.50	74.600	-7.33%
AM9	5600	HEAD	07/10/2022	22.0	21.1	0.05	1123	7638	4.140	83.70	82.800	-1.08%
AM9	5600	HEAD	07/31/2022	21.5	20.5	0.05	1123	7638	3.950	83.70	79.000	-5.62%
AM9	5750	HEAD	07/10/2022	22.0	21.1	0.05	1123	7638	3.970	80.50	79.400	-1.37%
AM9	5750	HEAD	07/31/2022	21.5	20.5	0.05	1123	7638	3.780	80.50	75.600	-6.09%

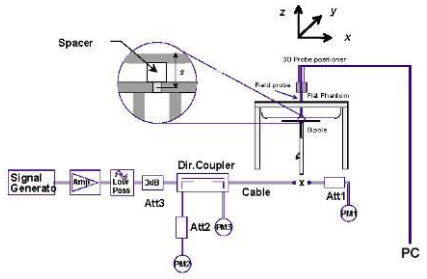

Figure 9-1
System Verification Setup Diagram

Figure 9-2
System Verification Setup Photo

10 SAR DATA SUMMARY

10.1 Standalone SAR Data

Table 10-1
UMTS 850 MHz Ant 1 Body SAR

MEASUREMENT RESULTS																			
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Position	Spacing	Antenna Config.	Device Serial Number	Duty Cycle	Side	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.												(W/kg)		(W/kg)	(W/kg)	(W/kg)	
826.40	4132	UMTS 850	RMC	20.00	18.62	-0.08	Body	0 mm	Ant 1	CWFD7H2PP6	1:1	back	0.697	1.374	0.958	0.281	0.386	A1
836.60	4183	UMTS 850	RMC	20.00	18.59	-0.02	Body	0 mm	Ant 1	CWFD7H2PP6	1:1	back	0.649	1.384	0.898	0.285	0.394	
846.60	4233	UMTS 850	RMC	20.00	18.55	0.00	Body	0 mm	Ant 1	CWFD7H2PP6	1:1	back	0.502	1.396	0.701	0.225	0.314	
826.40	4132	UMTS 850	RMC	20.00	18.62	0.02	Body	0 mm	Ant 1	CWFD7H2PP6	1:1	top	0.015	1.374	0.021	0.007	0.010	
826.40	4132	UMTS 850	RMC	20.00	18.62	0.05	Body	0 mm	Ant 1	CWFD7H2PP6	1:1	bottom	0.425	1.374	0.584	0.163	0.224	
826.40	4132	UMTS 850	RMC	20.00	18.62	0.05	Body	0 mm	Ant 1	CWFD7H2PP6	1:1	right	0.023	1.374	0.032	0.011	0.015	
826.40	4132	UMTS 850	RMC	20.00	18.62	-0.02	Body	0 mm	Ant 1	CWFD7H2PP6	1:1	left	0.258	1.374	0.354	0.109	0.150	
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
UMTS 850 MHz Ant 3 Body SAR

MEASUREMENT RESULTS																			
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Position	Spacing	Antenna Config.	Device Serial Number	Duty Cycle	Side	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.												(W/kg)		(W/kg)	(W/kg)	(W/kg)	
826.40	4132	UMTS 850	RMC	19.50	18.05	0.00	Body	0 mm	Ant 3	DM6OT1Y2VT	1:1	back	0.680	1.396	0.949	0.346	0.483	
836.60	4183	UMTS 850	RMC	19.50	18.06	0.02	Body	0 mm	Ant 3	DM6OT1Y2VT	1:1	back	0.633	1.393	0.882	0.322	0.449	
846.60	4233	UMTS 850	RMC	19.50	18.02	0.00	Body	0 mm	Ant 3	DM6OT1Y2VT	1:1	back	0.601	1.406	0.845	0.304	0.427	
826.40	4132	UMTS 850	RMC	19.50	18.05	-0.01	Body	0 mm	Ant 3	DM6OT1Y2VT	1:1	top	0.636	1.396	0.888	0.263	0.367	
836.60	4183	UMTS 850	RMC	19.50	18.06	0.01	Body	0 mm	Ant 3	DM6OT1Y2VT	1:1	top	0.622	1.393	0.866	0.260	0.362	
846.60	4233	UMTS 850	RMC	19.50	18.02	0.01	Body	0 mm	Ant 3	DM6OT1Y2VT	1:1	top	0.609	1.406	0.856	0.255	0.359	
836.60	4183	UMTS 850	RMC	19.50	18.06	-0.11	Body	0 mm	Ant 3	DM6OT1Y2VT	1:1	bottom	0.017	1.393	0.024	0.008	0.011	
836.60	4183	UMTS 850	RMC	19.50	18.06	0.00	Body	0 mm	Ant 3	DM6OT1Y2VT	1:1	right	0.282	1.393	0.393	0.119	0.166	
836.60	4183	UMTS 850	RMC	19.50	18.06	-0.06	Body	0 mm	Ant 3	DM6OT1Y2VT	1:1	left	0.025	1.393	0.035	0.012	0.017	
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 10-3
UMTS 1750 MHz Ant 1 Body SAR

MEASUREMENT RESULTS																			
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Position	Spacing	Antenna Config.	Device Serial Number	Duty Cycle	Side	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.												(W/kg)		(W/kg)	(W/kg)	(W/kg)	
1732.40	1412	UMTS 1750	RMC	15.70	14.75	-0.12	Body	0 mm	Ant 1	QLW4563WXL	1:1	back	0.561	1.245	0.698	0.274	0.341	
1732.40	1412	UMTS 1750	RMC	15.70	14.75	0.06	Body	0 mm	Ant 1	QLW4563WXL	1:1	top	0.028	1.245	0.035	0.013	0.016	
1732.40	1412	UMTS 1750	RMC	15.70	14.75	-0.07	Body	0 mm	Ant 1	QLW4563WXL	1:1	bottom	0.175	1.245	0.218	0.082	0.102	
1732.40	1412	UMTS 1750	RMC	15.70	14.75	0.06	Body	0 mm	Ant 1	QLW4563WXL	1:1	right	0.002	1.245	0.002	0.000	0.000	
1712.40	1312	UMTS 1750	RMC	15.70	14.65	-0.03	Body	0 mm	Ant 1	QLW4563WXL	1:1	left	0.682	1.274	0.869	0.263	0.335	A2
1732.40	1412	UMTS 1750	RMC	15.70	14.75	-0.02	Body	0 mm	Ant 1	QLW4563WXL	1:1	left	0.643	1.245	0.801	0.252	0.314	
1752.60	1513	UMTS 1750	RMC	15.70	14.72	-0.05	Body	0 mm	Ant 1	QLW4563WXL	1:1	left	0.622	1.253	0.779	0.242	0.303	
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
UMTS 1750 MHz Ant 2b Body SAR

MEASUREMENT RESULTS																			
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Position	Spacing	Antenna Config.	Device Serial Number	Duty Cycle	Side	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.												(W/kg)		(W/kg)	(W/kg)	(W/kg)	
1732.40	1412	UMTS 1750	RMC	15.00	13.84	-0.08	Body	0 mm	Ant 2b	P3K2L17CM6	1:1	back	0.372	1.306	0.486	0.153	0.200	
1732.40	1412	UMTS 1750	RMC	15.00	13.84	0.05	Body	0 mm	Ant 2b	P3K2L17CM6	1:1	top	0.001	1.306	0.001	0.000	0.000	
1712.40	1312	UMTS 1750	RMC	15.00	13.80	0.03	Body	0 mm	Ant 2b	P3K2L17CM6	1:1	bottom	0.638	1.318	0.841	0.224	0.295	
1732.40	1412	UMTS 1750	RMC	15.00	13.84	0.02	Body	0 mm	Ant 2b	P3K2L17CM6	1:1	bottom	0.647	1.306	0.845	0.227	0.296	
1752.60	1513	UMTS 1750	RMC	15.00	13.74	0.00	Body	0 mm	Ant 2b	P3K2L17CM6	1:1	bottom	0.648	1.337	0.866	0.228	0.305	
1732.40	1412	UMTS 1750	RMC	15.00	13.84	0.04	Body	0 mm	Ant 2b	P3K2L17CM6	1:1	right	0.026	1.306	0.034	0.010	0.013	
1732.40	1412	UMTS 1750	RMC	15.00	13.84	0.04	Body	0 mm	Ant 2b	P3K2L17CM6	1:1	left	0.001	1.306	0.001	0.000	0.000	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population								Body 1.6 W/kg (mW/g) averaged over 1 gram										

Table 10-5
UMTS 1750 MHz Ant 3 Body SAR

MEASUREMENT RESULTS																			
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Position	Spacing	Antenna Config.	Device Serial Number	Duty Cycle	Side	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.												(W/kg)		(W/kg)	(W/kg)	(W/kg)	
1712.40	1312	UMTS 1750	RMC	16.00	14.48	-0.06	Body	0 mm	Ant 3	P3K2L17CM6	1:1	back	0.324	1.419	0.460	0.171	0.243	
1712.40	1312	UMTS 1750	RMC	16.00	14.48	-0.03	Body	0 mm	Ant 3	P3K2L17CM6	1:1	top	0.147	1.419	0.209	0.055	0.078	
1712.40	1312	UMTS 1750	RMC	16.00	14.48	-0.10	Body	0 mm	Ant 3	P3K2L17CM6	1:1	bottom	0.028	1.419	0.040	0.013	0.018	
1712.40	1312	UMTS 1750	RMC	16.00	14.48	0.01	Body	0 mm	Ant 3	P3K2L17CM6	1:1	right	0.557	1.419	0.790	0.224	0.318	
1732.40	1412	UMTS 1750	RMC	16.00	14.29	-0.02	Body	0 mm	Ant 3	P3K2L17CM6	1:1	right	0.582	1.483	0.863	0.240	0.356	
1752.60	1513	UMTS 1750	RMC	16.00	14.32	0.01	Body	0 mm	Ant 3	P3K2L17CM6	1:1	right	0.568	1.472	0.836	0.232	0.342	
1712.40	1312	UMTS 1750	RMC	16.00	14.48	0.06	Body	0 mm	Ant 3	P3K2L17CM6	1:1	left	0.000	1.419	0.000	0.000	0.000	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population													Body 1.6 W/kg (mW/g) averaged over 1 gram					

Table 10-6
UMTS 1750 MHz Ant 4b Body SAR

MEASUREMENT RESULTS																		
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Position	Spacing	Antenna Config.	Device Serial Number	Duty Cycle	Side	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.												(W/kg)		(W/kg)	(W/kg)	(W/kg)	
1712.40	1312	UMTS 1750	RMC	13.30	12.39	-0.02	Body	0 mm	Ant 4b	YQXX7CJDXV	1:1	back	0.555	1.233	0.684	0.223	0.275	
1732.40	1412	UMTS 1750	RMC	13.30	12.44	-0.01	Body	0 mm	Ant 4b	YQXX7CJDXV	1:1	back	0.542	1.219	0.661	0.218	0.266	
1752.60	1513	UMTS 1750	RMC	13.30	12.28	0.00	Body	0 mm	Ant 4b	YQXX7CJDXV	1:1	back	0.537	1.265	0.679	0.215	0.272	
1732.40	1412	UMTS 1750	RMC	13.30	12.44	-0.01	Body	0 mm	Ant 4b	YQXX7CJDXV	1:1	top	0.509	1.219	0.620	0.184	0.224	
1732.40	1412	UMTS 1750	RMC	13.30	12.44	0.17	Body	0 mm	Ant 4b	YQXX7CJDXV	1:1	bottom	0.006	1.219	0.007	0.002	0.002	
1732.40	1412	UMTS 1750	RMC	13.30	12.44	0.08	Body	0 mm	Ant 4b	YQXX7CJDXV	1:1	right	0.002	1.219	0.002	0.000	0.000	
1732.40	1412	UMTS 1750	RMC	13.30	12.44	0.13	Body	0 mm	Ant 4b	YQXX7CJDXV	1:1	left	0.034	1.219	0.041	0.014	0.017	
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 10-7
UMTS 1900 MHz Ant 1 Body SAR

MEASUREMENT RESULTS																		
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Position	Spacing	Antenna Config.	Device Serial Number	Duty Cycle	Side	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.												(W/kg)		(W/kg)	(W/kg)	(W/kg)	
1852.40	9262	UMTS 1900	RMC	15.50	14.40	-0.03	Body	0 mm	Ant 1	R4YNF41VF	1:1	back	0.681	1.288	0.877	0.311	0.401	
1880.00	9400	UMTS 1900	RMC	15.50	14.51	0.00	Body	0 mm	Ant 1	R4YNF41VF	1:1	back	0.651	1.256	0.818	0.297	0.373	
1907.60	9538	UMTS 1900	RMC	15.50	14.45	-0.04	Body	0 mm	Ant 1	R4YNF41VF	1:1	back	0.641	1.274	0.817	0.286	0.364	
1880.00	9400	UMTS 1900	RMC	15.50	14.51	0.01	Body	0 mm	Ant 1	R4YNF41VF	1:1	top	0.011	1.256	0.014	0.003	0.004	
1880.00	9400	UMTS 1900	RMC	15.50	14.51	0.03	Body	0 mm	Ant 1	R4YNF41VF	1:1	bottom	0.249	1.256	0.313	0.102	0.128	
1880.00	9400	UMTS 1900	RMC	15.50	14.51	-0.20	Body	0 mm	Ant 1	R4YNF41VF	1:1	right	0.053	1.256	0.067	0.022	0.028	
1852.40	9262	UMTS 1900	RMC	15.50	14.40	-0.15	Body	0 mm	Ant 1	R4YNF41VF	1:1	left	0.706	1.288	0.909	0.270	0.348	
1880.00	9400	UMTS 1900	RMC	15.50	14.51	0.00	Body	0 mm	Ant 1	R4YNF41VF	1:1	left	0.692	1.256	0.869	0.265	0.333	
1907.60	9538	UMTS 1900	RMC	15.50	14.45	-0.03	Body	0 mm	Ant 1	R4YNF41VF	1:1	left	0.691	1.274	0.880	0.265	0.338	
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
UMTS 1900 MHz Ant 2b Body SAR

MEASUREMENT RESULTS																		
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Position	Spacing	Antenna Config.	Device Serial Number	Duty Cycle	Side	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.												(W/kg)		(W/kg)	(W/kg)	(W/kg)	
1880.00	9400	UMTS 1900	RMC	14.20	13.29	-0.01	Body	0 mm	Ant 2b	R4YNF41VF	1:1	back	0.562	1.233	0.693	0.218	0.269	
1880.00	9400	UMTS 1900	RMC	14.20	13.29	0.06	Body	0 mm	Ant 2b	R4YNF41VF	1:1	top	0.006	1.233	0.007	0.001	0.001	
1852.40	9262	UMTS 1900	RMC	14.20	13.15	0.01	Body	0 mm	Ant 2b	R4YNF41VF	1:1	bottom	0.687	1.274	0.875	0.235	0.299	
1880.00	9400	UMTS 1900	RMC	14.20	13.29	-0.01	Body	0 mm	Ant 2b	R4YNF41VF	1:1	bottom	0.718	1.233	0.885	0.244	0.301	
1907.60	9538	UMTS 1900	RMC	14.20	13.27	0.00	Body	0 mm	Ant 2b	R4YNF41VF	1:1	bottom	0.678	1.239	0.840	0.232	0.287	
1880.00	9400	UMTS 1900	RMC	14.20	13.29	-0.14	Body	0 mm	Ant 2b	R4YNF41VF	1:1	right	0.030	1.233	0.037	0.012	0.015	
1880.00	9400	UMTS 1900	RMC	14.20	13.29	0.09	Body	0 mm	Ant 2b	R4YNF41VF	1:1	left	0.005	1.233	0.006	0.001	0.001	
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 10-9
UMTS 1900 MHz Ant 3 Body SAR

MEASUREMENT RESULTS																			
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Position	Spacing	Antenna Config.	Device Serial Number	Duty Cycle	Side	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.												(W/kg)		(W/kg)	(W/kg)	(W/kg)	
1852.40	9262	UMTS 1900	RMC	16.90	15.91	-0.01	Body	0 mm	Ant 3	R4YNF41VF	1:1	back	0.722	1.256	0.907	0.347	0.436	A3
1880.00	9400	UMTS 1900	RMC	16.90	16.04	0.00	Body	0 mm	Ant 3	R4YNF41VF	1:1	back	0.702	1.219	0.856	0.339	0.413	
1907.60	9538	UMTS 1900	RMC	16.90	15.86	-0.01	Body	0 mm	Ant 3	R4YNF41VF	1:1	back	0.658	1.271	0.836	0.315	0.400	
1880.00	9400	UMTS 1900	RMC	16.90	16.04	0.02	Body	0 mm	Ant 3	R4YNF41VF	1:1	top	0.455	1.219	0.555	0.169	0.206	
1880.00	9400	UMTS 1900	RMC	16.90	16.04	0.04	Body	0 mm	Ant 3	R4YNF41VF	1:1	bottom	0.026	1.219	0.032	0.012	0.015	
1852.40	9262	UMTS 1900	RMC	16.90	15.91	-0.03	Body	0 mm	Ant 3	R4YNF41VF	1:1	right	0.721	1.256	0.906	0.284	0.357	
1880.00	9400	UMTS 1900	RMC	16.90	16.04	-0.01	Body	0 mm	Ant 3	R4YNF41VF	1:1	right	0.722	1.219	0.880	0.284	0.346	
1907.60	9538	UMTS 1900	RMC	16.90	15.86	-0.02	Body	0 mm	Ant 3	R4YNF41VF	1:1	right	0.705	1.271	0.896	0.276	0.351	
1880.00	9400	UMTS 1900	RMC	16.90	16.04	0.02	Body	0 mm	Ant 3	R4YNF41VF	1:1	left	0.000	1.219	0.000	0.000	0.000	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population								Body 1.6 W/kg (mW/g) averaged over 1 gram										

Table 10-10
UMTS 1900 MHz Ant 4b Body SAR

MEASUREMENT RESULTS																		
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Position	Spacing	Antenna Config.	Device Serial Number	Duty Cycle	Side	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.												(W/kg)		(W/kg)	(W/kg)	(W/kg)	
1852.40	9262	UMTS 1900	RMC	13.20	12.18	0.01	Body	0 mm	Ant 4b	NYHCJX4GM	1:1	back	0.624	1.265	0.789	0.246	0.311	
1880.00	9400	UMTS 1900	RMC	13.20	12.26	-0.01	Body	0 mm	Ant 4b	NYHCJX4GM	1:1	back	0.668	1.242	0.830	0.263	0.327	
1907.60	9538	UMTS 1900	RMC	13.20	12.15	0.00	Body	0 mm	Ant 4b	NYHCJX4GM	1:1	back	0.710	1.274	0.905	0.279	0.355	
1852.40	9262	UMTS 1900	RMC	13.20	12.18	-0.03	Body	0 mm	Ant 4b	NYHCJX4GM	1:1	top	0.658	1.265	0.832	0.235	0.297	
1880.00	9400	UMTS 1900	RMC	13.20	12.26	0.03	Body	0 mm	Ant 4b	NYHCJX4GM	1:1	top	0.681	1.242	0.846	0.241	0.299	
1907.60	9538	UMTS 1900	RMC	13.20	12.15	0.03	Body	0 mm	Ant 4b	NYHCJX4GM	1:1	top	0.707	1.274	0.901	0.246	0.313	
1880.00	9400	UMTS 1900	RMC	13.20	12.26	0.05	Body	0 mm	Ant 4b	NYHCJX4GM	1:1	bottom	0.000	1.242	0.000	0.000	0.000	
1880.00	9400	UMTS 1900	RMC	13.20	12.26	-0.04	Body	0 mm	Ant 4b	NYHCJX4GM	1:1	right	0.007	1.242	0.009	0.003	0.004	
1880.00	9400	UMTS 1900	RMC	13.20	12.26	0.04	Body	0 mm	Ant 4b	NYHCJX4GM	1:1	left	0.049	1.242	0.061	0.014	0.017	
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 10-11
LTE Band 71 Ant 1 Body SAR

MEASUREMENT RESULTS																							
FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.																(W/kg)		(W/kg)	(W/kg)	(W/kg)	
680.50	133297	Mid	LTE Band 71	20	21.00	19.91	0.02	0	Ant 1	CWFD7H2PP6	QPSK	1	50	0 mm	back	1:1	0.624	1.285	0.802	0.299	0.384	
680.50	133297	Mid	LTE Band 71	20	21.00	19.83	0.01	0	Ant 1	CWFD7H2PP6	QPSK	50	25	0 mm	back	1:1	0.618	1.309	0.809	0.300	0.393	
680.50	133297	Mid	LTE Band 71	20	21.00	19.82	0.05	0	Ant 1	CWFD7H2PP6	QPSK	100	0	0 mm	back	1:1	0.689	1.312	0.904	0.306	0.401	
680.50	133297	Mid	LTE Band 71	20	21.00	19.91	0.02	0	Ant 1	CWFD7H2PP6	QPSK	1	50	0 mm	top	1:1	0.025	1.285	0.032	0.011	0.014	
680.50	133297	Mid	LTE Band 71	20	21.00	19.83	0.06	0	Ant 1	CWFD7H2PP6	QPSK	50	25	0 mm	top	1:1	0.024	1.309	0.031	0.011	0.014	
680.50	133297	Mid	LTE Band 71	20	21.00	19.91	-0.05	0	Ant 1	CWFD7H2PP6	QPSK	1	50	0 mm	bottom	1:1	0.459	1.285	0.590	0.177	0.227	
680.50	133297	Mid	LTE Band 71	20	21.00	19.83	-0.02	0	Ant 1	CWFD7H2PP6	QPSK	50	25	0 mm	bottom	1:1	0.469	1.309	0.614	0.181	0.237	
680.50	133297	Mid	LTE Band 71	20	21.00	19.91	0.06	0	Ant 1	CWFD7H2PP6	QPSK	1	50	0 mm	right	1:1	0.048	1.285	0.062	0.019	0.024	
680.50	133297	Mid	LTE Band 71	20	21.00	19.83	-0.17	0	Ant 1	CWFD7H2PP6	QPSK	50	25	0 mm	right	1:1	0.050	1.309	0.065	0.020	0.026	
680.50	133297	Mid	LTE Band 71	20	21.00	19.91	-0.05	0	Ant 1	CWFD7H2PP6	QPSK	1	50	0 mm	left	1:1	0.438	1.285	0.563	0.156	0.200	
680.50	133297	Mid	LTE Band 71	20	21.00	19.83	-0.07	0	Ant 1	CWFD7H2PP6	QPSK	50	25	0 mm	left	1:1	0.443	1.309	0.580	0.158	0.207	
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 10-12
LTE Band 71 Ant 3 Body SAR

MEASUREMENT RESULTS																							
FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.																(W/kg)		(W/kg)	(W/kg)	(W/kg)	
680.50	133297	Mid	LTE Band 71	20	21.50	20.83	-0.08	0	Ant 3	CWFD7H2PP6	QPSK	1	99	0 mm	back	1:1	0.685	1.167	0.799	0.337	0.393	
680.50	133297	Mid	LTE Band 71	20	21.50	20.80	0.07	0	Ant 3	CWFD7H2PP6	QPSK	50	50	0 mm	back	1:1	0.702	1.175	0.825	0.345	0.405	
680.50	133297	Mid	LTE Band 71	20	21.50	20.79	-0.02	0	Ant 3	CWFD7H2PP6	QPSK	100	0	0 mm	back	1:1	0.731	1.178	0.861	0.360	0.424	
680.50	133297	Mid	LTE Band 71	20	21.50	20.83	0.02	0	Ant 3	CWFD7H2PP6	QPSK	1	99	0 mm	top	1:1	0.832	1.167	0.971	0.316	0.369	
680.50	133297	Mid	LTE Band 71	20	21.50	20.80	-0.15	0	Ant 3	CWFD7H2PP6	QPSK	50	50	0 mm	top	1:1	0.832	1.175	0.978	0.317	0.372	
680.50	133297	Mid	LTE Band 71	20	21.50	20.79	-0.09	0	Ant 3	CWFD7H2PP6	QPSK	100	0	0 mm	top	1:1	0.847	1.178	0.998	0.323	0.380	A4
680.50	133297	Mid	LTE Band 71	20	21.50	20.83	-0.07	0	Ant 3	CWFD7H2PP6	QPSK	1	99	0 mm	bottom	1:1	0.024	1.167	0.028	0.009	0.011	
680.50	133297	Mid	LTE Band 71	20	21.50	20.80	-0.03	0	Ant 3	CWFD7H2PP6	QPSK	50	50	0 mm	bottom	1:1	0.023	1.175	0.027	0.009	0.011	
680.50	133297	Mid	LTE Band 71	20	21.50	20.83	-0.20	0	Ant 3	CWFD7H2PP6	QPSK	1	99	0 mm	right	1:1	0.262	1.167	0.306	0.104	0.121	
680.50	133297	Mid	LTE Band 71	20	21.50	20.80	-0.16	0	Ant 3	CWFD7H2PP6	QPSK	50	50	0 mm	right	1:1	0.271	1.175	0.318	0.107	0.126	
680.50	133297	Mid	LTE Band 71	20	21.50	20.83	0.05	0	Ant 3	CWFD7H2PP6	QPSK	1	99	0 mm	left	1:1	0.035	1.167	0.041	0.014	0.016	
680.50	133297	Mid	LTE Band 71	20	21.50	20.80	-0.04	0	Ant 3	CWFD7H2PP6	QPSK	50	50	0 mm	left	1:1	0.041	1.175	0.048	0.016	0.019	
680.50	133297	Mid	LTE Band 71	20	21.50	20.79	0.00	0	Ant 3	CWFD7H2PP6	QPSK	100	0	0 mm	top	1:1	0.732	1.178	0.862	0.270	0.318	
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 10-13
LTE Band 12 Ant 1 Body SAR

MEASUREMENT RESULTS

FREQUENCY MHz	FREQUENCY Ch.		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g) (W/kg)	Scaling Factor	Reported SAR (1g) (W/kg)	SAR (10g) (W/kg)	Reported SAR (10g) (W/kg)	Plot #
707.50	23095	Mid	LTE Band 12	10	20.50	19.26	0.05	0	Ant 1	P3K2L17CM6	QPSK	1	0	0 mm	back	1:1	0.670	1.330	0.891	0.259	0.344	
707.50	23095	Mid	LTE Band 12	10	20.50	19.20	-0.04	0	Ant 1	P3K2L17CM6	QPSK	25	12	0 mm	back	1:1	0.659	1.349	0.889	0.252	0.340	
707.50	23095	Mid	LTE Band 12	10	20.50	19.16	-0.02	0	Ant 1	P3K2L17CM6	QPSK	50	0	0 mm	back	1:1	0.702	1.361	0.955	0.261	0.355	A5
707.50	23095	Mid	LTE Band 12	10	20.50	19.26	-0.06	0	Ant 1	P3K2L17CM6	QPSK	1	0	0 mm	top	1:1	0.022	1.330	0.029	0.009	0.012	
707.50	23095	Mid	LTE Band 12	10	20.50	19.20	0.14	0	Ant 1	P3K2L17CM6	QPSK	25	12	0 mm	top	1:1	0.024	1.349	0.032	0.010	0.013	
707.50	23095	Mid	LTE Band 12	10	20.50	19.26	0.01	0	Ant 1	P3K2L17CM6	QPSK	1	0	0 mm	bottom	1:1	0.481	1.330	0.640	0.177	0.235	
707.50	23095	Mid	LTE Band 12	10	20.50	19.20	-0.01	0	Ant 1	P3K2L17CM6	QPSK	25	12	0 mm	bottom	1:1	0.482	1.349	0.650	0.179	0.241	
707.50	23095	Mid	LTE Band 12	10	20.50	19.26	0.08	0	Ant 1	P3K2L17CM6	QPSK	1	0	0 mm	right	1:1	0.032	1.330	0.043	0.013	0.017	
707.50	23095	Mid	LTE Band 12	10	20.50	19.20	-0.10	0	Ant 1	P3K2L17CM6	QPSK	25	12	0 mm	right	1:1	0.028	1.349	0.038	0.012	0.016	
707.50	23095	Mid	LTE Band 12	10	20.50	19.26	0.09	0	Ant 1	P3K2L17CM6	QPSK	1	0	0 mm	left	1:1	0.325	1.330	0.432	0.119	0.158	
707.50	23095	Mid	LTE Band 12	10	20.50	19.20	0.06	0	Ant 1	P3K2L17CM6	QPSK	25	12	0 mm	left	1:1	0.348	1.349	0.469	0.129	0.174	

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
LTE Band 12 Ant 3 Body SAR

MEASUREMENT RESULTS

FREQUENCY MHz	FREQUENCY Ch.		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g) (W/kg)	Scaling Factor	Reported SAR (1g) (W/kg)	SAR (10g) (W/kg)	Reported SAR (10g) (W/kg)	Plot #
707.50	23095	Mid	LTE Band 12	10	19.80	18.35	-0.02	0	Ant 3	CWFD7H2PP6	QPSK	1	49	0 mm	back	1:1	0.559	1.396	0.780	0.286	0.399	
707.50	23095	Mid	LTE Band 12	10	19.80	18.39	-0.02	0	Ant 3	CWFD7H2PP6	QPSK	25	12	0 mm	back	1:1	0.556	1.384	0.770	0.283	0.392	
707.50	23095	Mid	LTE Band 12	10	19.80	18.35	-0.13	0	Ant 3	CWFD7H2PP6	QPSK	1	49	0 mm	top	1:1	0.592	1.396	0.826	0.236	0.329	
707.50	23095	Mid	LTE Band 12	10	19.80	18.39	-0.04	0	Ant 3	CWFD7H2PP6	QPSK	25	12	0 mm	top	1:1	0.647	1.384	0.895	0.254	0.352	
707.50	23095	Mid	LTE Band 12	10	19.80	18.32	0.00	0	Ant 3	CWFD7H2PP6	QPSK	50	0	0 mm	top	1:1	0.643	1.406	0.904	0.254	0.357	
707.50	23095	Mid	LTE Band 12	10	19.80	18.35	-0.18	0	Ant 3	CWFD7H2PP6	QPSK	1	49	0 mm	bottom	1:1	0.021	1.396	0.029	0.008	0.011	
707.50	23095	Mid	LTE Band 12	10	19.80	18.39	0.03	0	Ant 3	CWFD7H2PP6	QPSK	25	12	0 mm	bottom	1:1	0.018	1.384	0.025	0.007	0.010	
707.50	23095	Mid	LTE Band 12	10	19.80	18.35	-0.07	0	Ant 3	CWFD7H2PP6	QPSK	1	49	0 mm	right	1:1	0.217	1.396	0.303	0.090	0.126	
707.50	23095	Mid	LTE Band 12	10	19.80	18.39	-0.04	0	Ant 3	CWFD7H2PP6	QPSK	25	12	0 mm	right	1:1	0.256	1.384	0.354	0.101	0.140	
707.50	23095	Mid	LTE Band 12	10	19.80	18.35	0.08	0	Ant 3	CWFD7H2PP6	QPSK	1	49	0 mm	left	1:1	0.028	1.396	0.039	0.012	0.017	
707.50	23095	Mid	LTE Band 12	10	19.80	18.39	0.03	0	Ant 3	CWFD7H2PP6	QPSK	25	12	0 mm	left	1:1	0.021	1.384	0.029	0.009	0.012	

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 10-15
LTE Band 13 Ant 1 Body SAR

MEASUREMENT RESULTS

FREQUENCY MHz	FREQUENCY Ch.		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g) (W/kg)	Scaling Factor	Reported SAR (1g) (W/kg)	SAR (10g) (W/kg)	Reported SAR (10g) (W/kg)	Plot #
782.00	23230	Mid	LTE Band 13	10	21.00	19.73	-0.18	0	Ant 1	CWFD7H2PP6	QPSK	1	49	0 mm	back	1:1	0.626	1.340	0.839	0.313	0.419	
782.00	23230	Mid	LTE Band 13	10	21.00	19.77	-0.02	0	Ant 1	CWFD7H2PP6	QPSK	25	12	0 mm	back	1:1	0.624	1.327	0.828	0.241	0.320	
782.00	23230	Mid	LTE Band 13	10	21.00	19.70	0.05	0	Ant 1	CWFD7H2PP6	QPSK	50	0	0 mm	back	1:1	0.665	1.349	0.897	0.259	0.349	
782.00	23230	Mid	LTE Band 13	10	21.00	19.73	0.05	0	Ant 1	CWFD7H2PP6	QPSK	1	49	0 mm	top	1:1	0.033	1.340	0.044	0.013	0.017	
782.00	23230	Mid	LTE Band 13	10	21.00	19.77	0.09	0	Ant 1	CWFD7H2PP6	QPSK	25	12	0 mm	top	1:1	0.029	1.327	0.038	0.012	0.016	
782.00	23230	Mid	LTE Band 13	10	21.00	19.73	0.02	0	Ant 1	CWFD7H2PP6	QPSK	1	49	0 mm	bottom	1:1	0.496	1.340	0.665	0.202	0.271	
782.00	23230	Mid	LTE Band 13	10	21.00	19.77	0.01	0	Ant 1	CWFD7H2PP6	QPSK	25	12	0 mm	bottom	1:1	0.509	1.327	0.675	0.208	0.276	
782.00	23230	Mid	LTE Band 13	10	21.00	19.73	0.06	0	Ant 1	CWFD7H2PP6	QPSK	1	49	0 mm	right	1:1	0.039	1.340	0.052	0.017	0.023	
782.00	23230	Mid	LTE Band 13	10	21.00	19.77	-0.08	0	Ant 1	CWFD7H2PP6	QPSK	25	12	0 mm	right	1:1	0.033	1.327	0.044	0.015	0.020	
782.00	23230	Mid	LTE Band 13	10	21.00	19.73	0.06	0	Ant 1	CWFD7H2PP6	QPSK	1	49	0 mm	left	1:1	0.458	1.340	0.614	0.174	0.233	
782.00	23230	Mid	LTE Band 13	10	21.00	19.77	-0.04	0	Ant 1	CWFD7H2PP6	QPSK	25	12	0 mm	left	1:1	0.435	1.327	0.577	0.166	0.220	

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
LTE Band 13 Ant 3 Body SAR

MEASUREMENT RESULTS

FREQUENCY MHz	FREQUENCY Ch.		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g) (W/kg)	Scaling Factor	Reported SAR (1g) (W/kg)	SAR (10g) (W/kg)	Reported SAR (10g) (W/kg)	Plot #
782.00	23230	Mid	LTE Band 13	10	20.50	19.39	0.13	0	Ant 3	CWFD7H2PP6	QPSK	1	0	0 mm	back	1:1	0.510	1.291	0.658	0.267	0.345	
782.00	23230	Mid	LTE Band 13	10	20.50	19.40	-0.01	0	Ant 3	CWFD7H2PP6	QPSK	25	25	0 mm	back	1:1	0.485	1.288	0.625	0.252	0.325	
782.00	23230	Mid	LTE Band 13	10	20.50	19.39	0.11	0	Ant 3	CWFD7H2PP6	QPSK	1	0	0 mm	top	1:1	0.688	1.291	0.888	0.267	0.345	A6
782.00	23230	Mid	LTE Band 13	10	20.50	19.40	0.02	0	Ant 3	CWFD7H2PP6	QPSK	25	25	0 mm	top	1:1	0.618	1.288	0.796	0.242	0.312	
782.00	23230	Mid	LTE Band 13	10	20.50	19.34	-0.04	0	Ant 3	CWFD7H2PP6	QPSK	50	0	0 mm	top	1:1	0.641	1.306	0.837	0.248	0.324	
782.00	23230	Mid	LTE Band 13	10	20.50	19.39	0.05	0	Ant 3	CWFD7H2PP6	QPSK	1	0	0 mm	bottom	1:1	0.014	1.291	0.018	0.007	0.009	
782.00	23230	Mid	LTE Band 13	10	20.50	19.40	-0.13	0	Ant 3	CWFD7H2PP6	QPSK	25	25	0 mm	bottom	1:1	0.018	1.288	0.023	0.009	0.012	
782.00	23230	Mid	LTE Band 13	10	20.50	19.39	0.03	0	Ant 3	CWFD7H2PP6	QPSK	1	0	0 mm	right	1:1	0.236	1.291	0.305	0.107	0.138	
782.00	23230	Mid	LTE Band 13	10	20.50	19.40	-0.05	0	Ant 3	CWFD7H2PP6	QPSK	25	25	0 mm	right	1:1	0.217	1.288	0.279	0.098	0.126	
782.00	23230	Mid	LTE Band 13	10	20.50	19.39	0.02	0	Ant 3	CWFD7H2PP6	QPSK	1	0	0 mm	left	1:1	0.032	1.291	0.041	0.014	0.018	
782.00	23230	Mid	LTE Band 13	10	20.50	19.40	0.01	0	Ant 3	CWFD7H2PP6	QPSK	25	25	0 mm	left	1:1	0.028	1.288	0.036	0.012	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 10-17
LTE Band 14 Ant 1 Body SAR

MEASUREMENT RESULTS																									
FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g) (W/kg)	Scaling Factor	Reported SAR (1g) (W/kg)	SAR (10g) (W/kg)	Reported SAR (10g) (W/kg)	Plot #
MHz	Ch.																						
793.00	23330	Mid	LTE Band 14	10	21.00	19.73	0.15	0	Ant 1	CWFD7H2PP6	QPSK	1	0	0 mm	back	1:1	0.629	1.340	0.843	0.316	0.423	
793.00	23330	Mid	LTE Band 14	10	21.00	19.76	0.02	0	Ant 1	CWFD7H2PP6	QPSK	25	12	0 mm	back	1:1	0.589	1.330	0.783	0.295	0.392	
793.00	23330	Mid	LTE Band 14	10	21.00	19.60	0.00	0	Ant 1	CWFD7H2PP6	QPSK	50	0	0 mm	back	1:1	0.610	1.380	0.842	0.305	0.421	
793.00	23330	Mid	LTE Band 14	10	21.00	19.73	0.03	0	Ant 1	CWFD7H2PP6	QPSK	1	0	0 mm	top	1:1	0.031	1.340	0.042	0.012	0.016	
793.00	23330	Mid	LTE Band 14	10	21.00	19.76	-0.01	0	Ant 1	CWFD7H2PP6	QPSK	25	12	0 mm	top	1:1	0.030	1.330	0.040	0.012	0.016	
793.00	23330	Mid	LTE Band 14	10	21.00	19.73	0.02	0	Ant 1	CWFD7H2PP6	QPSK	1	0	0 mm	bottom	1:1	0.525	1.340	0.704	0.213	0.285	
793.00	23330	Mid	LTE Band 14	10	21.00	19.76	0.04	0	Ant 1	CWFD7H2PP6	QPSK	25	12	0 mm	bottom	1:1	0.526	1.330	0.700	0.212	0.282	
793.00	23330	Mid	LTE Band 14	10	21.00	19.73	0.09	0	Ant 1	CWFD7H2PP6	QPSK	1	0	0 mm	right	1:1	0.047	1.340	0.063	0.020	0.027	
793.00	23330	Mid	LTE Band 14	10	21.00	19.76	-0.10	0	Ant 1	CWFD7H2PP6	QPSK	25	12	0 mm	right	1:1	0.042	1.330	0.056	0.019	0.025	
793.00	23330	Mid	LTE Band 14	10	21.00	19.73	-0.08	0	Ant 1	CWFD7H2PP6	QPSK	1	0	0 mm	left	1:1	0.494	1.340	0.662	0.190	0.255	
793.00	23330	Mid	LTE Band 14	10	21.00	19.76	-0.03	0	Ant 1	CWFD7H2PP6	QPSK	25	12	0 mm	left	1:1	0.453	1.330	0.602	0.174	0.231	
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
LTE Band 14 Ant 3 Body SAR

MEASUREMENT RESULTS																									
FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g) (W/kg)	Scaling Factor	Reported SAR (1g) (W/kg)	SAR (10g) (W/kg)	Reported SAR (10g) (W/kg)	Plot #
MHz	Ch.																						
793.00	23330	Mid	LTE Band 14	10	20.50	19.34	-0.01	0	Ant 3	NJ5X4097NF	QPSK	1	0	0 mm	back	1:1	0.612	1.306	0.799	0.305	0.398	
793.00	23330	Mid	LTE Band 14	10	20.50	19.38	0.00	0	Ant 3	NJ5X4097NF	QPSK	25	12	0 mm	back	1:1	0.590	1.294	0.763	0.288	0.373	
793.00	23330	Mid	LTE Band 14	10	20.50	19.34	0.03	0	Ant 3	NJ5X4097NF	QPSK	1	0	0 mm	top	1:1	0.697	1.306	0.910	0.270	0.353	A7
793.00	23330	Mid	LTE Band 14	10	20.50	19.38	0.00	0	Ant 3	NJ5X4097NF	QPSK	25	12	0 mm	top	1:1	0.668	1.294	0.864	0.260	0.336	
793.00	23330	Mid	LTE Band 14	10	20.50	19.31	-0.03	0	Ant 3	NJ5X4097NF	QPSK	50	0	0 mm	top	1:1	0.655	1.315	0.861	0.256	0.337	
793.00	23330	Mid	LTE Band 14	10	20.50	19.34	-0.11	0	Ant 3	NJ5X4097NF	QPSK	1	0	0 mm	bottom	1:1	0.020	1.306	0.026	0.010	0.013	
793.00	23330	Mid	LTE Band 14	10	20.50	19.38	-0.05	0	Ant 3	NJ5X4097NF	QPSK	25	12	0 mm	bottom	1:1	0.017	1.294	0.022	0.008	0.010	
793.00	23330	Mid	LTE Band 14	10	20.50	19.34	-0.15	0	Ant 3	NJ5X4097NF	QPSK	1	0	0 mm	right	1:1	0.226	1.306	0.295	0.102	0.133	
793.00	23330	Mid	LTE Band 14	10	20.50	19.38	-0.03	0	Ant 3	NJ5X4097NF	QPSK	25	12	0 mm	right	1:1	0.205	1.294	0.265	0.093	0.120	
793.00	23330	Mid	LTE Band 14	10	20.50	19.34	-0.11	0	Ant 3	NJ5X4097NF	QPSK	1	0	0 mm	left	1:1	0.027	1.306	0.035	0.012	0.016	
793.00	23330	Mid	LTE Band 14	10	20.50	19.38	0.00	0	Ant 3	NJ5X4097NF	QPSK	25	12	0 mm	left	1:1	0.029	1.294	0.038	0.012	0.016	
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 10-19
LTE Band 26 (Cell) Ant 1 Body SAR

MEASUREMENT RESULTS																									
FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g) (W/kg)	Scaling Factor	Reported SAR (1g) (W/kg)	SAR (10g) (W/kg)	Reported SAR (10g) (W/kg)	Plot #
MHz	Ch.																						
819.00	26740	Low	LTE Band 26 (Cell)	10	20.00	18.65	-0.08	0	Ant 1	YQX07CJDXV	QPSK	1	0	0 mm	back	1:1	0.652	1.365	0.890	0.246	0.336	
831.50	26865	Mid	LTE Band 26 (Cell)	10	20.00	18.57	-0.18	0	Ant 1	YQX07CJDXV	QPSK	1	0	0 mm	back	1:1	0.597	1.390	0.830	0.242	0.336	
844.00	26990	High	LTE Band 26 (Cell)	10	20.00	18.72	-0.17	0	Ant 1	YQX07CJDXV	QPSK	1	0	0 mm	back	1:1	0.597	1.343	0.802	0.243	0.326	
844.00	26990	High	LTE Band 26 (Cell)	10	20.00	18.76	0.01	0	Ant 1	YQX07CJDXV	QPSK	25	25	0 mm	back	1:1	0.572	1.330	0.761	0.215	0.286	
819.00	26740	Low	LTE Band 26 (Cell)	10	20.00	18.64	0.14	0	Ant 1	YQX07CJDXV	QPSK	50	0	0 mm	back	1:1	0.658	1.368	0.900	0.273	0.373	
844.00	26990	High	LTE Band 26 (Cell)	10	20.00	18.72	0.08	0	Ant 1	YQX07CJDXV	QPSK	1	0	0 mm	top	1:1	0.014	1.343	0.019	0.006	0.008	
844.00	26990	High	LTE Band 26 (Cell)	10	20.00	18.76	-0.10	0	Ant 1	YQX07CJDXV	QPSK	25	25	0 mm	top	1:1	0.014	1.330	0.019	0.006	0.008	
844.00	26990	High	LTE Band 26 (Cell)	10	20.00	18.72	0.13	0	Ant 1	YQX07CJDXV	QPSK	1	0	0 mm	bottom	1:1	0.408	1.343	0.548	0.157	0.211	
844.00	26990	High	LTE Band 26 (Cell)	10	20.00	18.76	-0.04	0	Ant 1	YQX07CJDXV	QPSK	25	25	0 mm	bottom	1:1	0.410	1.330	0.545	0.156	0.207	
844.00	26990	High	LTE Band 26 (Cell)	10	20.00	18.72	0.18	0	Ant 1	YQX07CJDXV	QPSK	1	0	0 mm	right	1:1	0.024	1.343	0.032	0.012	0.016	
844.00	26990	High	LTE Band 26 (Cell)	10	20.00	18.76	0.18	0	Ant 1	YQX07CJDXV	QPSK	25	25	0 mm	right	1:1	0.028	1.330	0.037	0.013	0.017	
844.00	26990	High	LTE Band 26 (Cell)	10	20.00	18.72	-0.11	0	Ant 1	YQX07CJDXV	QPSK	1	0	0 mm	left	1:1	0.397	1.343	0.533	0.152	0.204	
844.00	26990	High	LTE Band 26 (Cell)	10	20.00	18.76	0.02	0	Ant 1	YQX07CJDXV	QPSK	25	25	0 mm	left	1:1	0.368	1.330	0.489	0.143	0.190	
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 10-20
LTE Band 26 (Cell) Ant 3 Body SAR

MEASUREMENT RESULTS																									
FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g) (W/kg)	Scaling Factor	Reported SAR (1g) (W/kg)	SAR (10g) (W/kg)	Reported SAR (10g) (W/kg)	Plot #
MHz	Ch.																						
819.00	26740	Low	LTE Band 26 (Cell)	10	19.50	18.20	0.00	0	Ant 3	CWFD7H2PP6	QPSK	1	0	0 mm	back	1:1	0.496	1.349	0.669	0.263	0.355	
819.00	26740	Low	LTE Band 26 (Cell)	10	19.50	18.24	0.00	0	Ant 3	CWFD7H2PP6	QPSK	25	25	0 mm	back	1:1	0.492	1.337	0.658	0.260	0.348	
819.00	26740	Low	LTE Band 26 (Cell)	10	19.50	18.20	-0.12	0	Ant 3	CWFD7H2PP6	QPSK	1	0	0 mm	top	1:1	0.643	1.349	0.867	0.242	0.326	
831.50	26865	Mid	LTE Band 26 (Cell)	10	19.50	18.17	0.11	0	Ant 3	CWFD7H2PP6	QPSK	1	0	0 mm	top	1:1	0.639	1.358	0.868	0.245	0.333	
844.00	26990	High	LTE Band 26 (Cell)	10	19.50	18.10	0.14	0	Ant 3	CWFD7H2PP6	QPSK	1	0	0 mm	top	1:1	0.604	1.380	0.834	0.232	0.320	
819.00	26740	Low	LTE Band 26 (Cell)	10	19.50	18.24	0.01	0	Ant 3	CWFD7H2PP6	QPSK	25	25	0 mm	top	1:1	0.648	1.337	0.866	0.241	0.322	
831.50	26865	Mid	LTE Band 26 (Cell)	10	19.50	18.23	0.00	0	Ant 3	CWFD7H2PP6	QPSK	25	12	0 mm	top	1:1	0.633	1.340	0.848	0.241	0.323	
844.00	26990	High	LTE Band 26 (Cell)	10	19.50	18.19	0.02	0	Ant 3	CWFD7H2PP6	QPSK	25	25	0 mm	top	1:1	0.599	1.352	0.810	0.230	0.311	
819.00	26740	Low	LTE Band 26 (Cell)	10	19.50	18.18	0.00	0	Ant 3	CWFD7H2PP6	QPSK	50	0	0 mm	top	1:1	0.670	1.355	0.908	0.249	0.337	A8
819.00	26740	Low	LTE Band 26 (Cell)	10	19.50	18.20	0.09	0	Ant 3	CWFD7H2PP6	QPSK	1	0	0 mm	bottom	1:1	0.013	1.349	0.018	0.006	0.008	
819.00	26740	Low	LTE Band 26 (Cell)	10	19.50	18.24	0.05	0	Ant 3	CWFD7H2PP6	QPSK	25	25	0 mm	bottom	1:1	0.011	1.337	0.015	0.005	0.007	
819.00	26740	Low	LTE Band 26 (Cell)	10	19.50	18.20	-0.17	0	Ant 3	CWFD7H2PP6	QPSK	1	0	0 mm	right	1:1	0.235	1.349	0.317	0.106	0.143	
819.00	26740	Low	LTE Band 26 (Cell)	10	19.50	18.24	0.00	0	Ant 3	CWFD7H2PP6	QPSK	25	25	0 mm	right	1:1	0.231	1.337	0.309	0.105	0.140	
819.00	26740	Low	LTE Band 26 (Cell)	10	19.50	18.20	0.09	0	Ant 3	CWFD7H2PP6	QPSK	1	0	0 mm	left	1:1	0.016	1.349	0.022	0.008	0.011	
819.00	26740	Low	LTE Band 26 (Cell)	10	19.50	18.24	-0.19	0	Ant 3	CWFD7H2PP6	QPSK	25	25	0 mm	left	1:1	0.018	1.337	0.024	0.009	0.012	
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 10-21
LTE Band 5 (Cell) Ant 1 Body SAR

MEASUREMENT RESULTS

1 CC Uplink | 2 CC Uplink	Component Carrier	FREQUENCY MHz	FREQUENCY Ch.		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g) (W/kg)	Scaling Factor	Reported SAR (1g) (W/kg)	SAR (10g) (W/kg)	Reported SAR (10g) (W/kg)	Plot #
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	20.00	18.56	-0.05	0	Ant 1	F70633NVTK	QPSK	1	49	0 mm	back	1:1	0.563	1.393	0.784	0.228	0.318	
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	20.00	18.58	0.04	0	Ant 1	F70633NVTK	QPSK	25	25	0 mm	back	1:1	0.605	1.387	0.839	0.228	0.316	
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	20.00	18.49	0.01	0	Ant 1	F70633NVTK	QPSK	50	0	0 mm	back	1:1	0.532	1.416	0.753	0.206	0.292	
2 CC Uplink	PCC	836.50	20525	Mid	LTE Band 5 (Cell)	10	20.00	18.25	0.05	0	Ant 1	F70633NVTK	QPSK	25	25	0 mm	back	1:1	0.584	1.496	0.874	0.216	0.323	
2 CC Uplink	SCC	843.70	20597	Mid	LTE Band 5 (Cell)	5								12	0									
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	20.00	18.56	0.06	0	Ant 1	F70633NVTK	QPSK	1	49	0 mm	top	1:1	0.017	1.393	0.024	0.008	0.011	
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	20.00	18.58	0.02	0	Ant 1	F70633NVTK	QPSK	25	25	0 mm	top	1:1	0.020	1.387	0.028	0.009	0.012	
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	20.00	18.56	-0.09	0	Ant 1	F70633NVTK	QPSK	1	49	0 mm	bottom	1:1	0.447	1.393	0.623	0.171	0.238	
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	20.00	18.58	0.06	0	Ant 1	F70633NVTK	QPSK	25	25	0 mm	bottom	1:1	0.444	1.387	0.616	0.169	0.234	
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	20.00	18.56	-0.04	0	Ant 1	F70633NVTK	QPSK	1	49	0 mm	right	1:1	0.030	1.393	0.042	0.014	0.020	
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	20.00	18.58	0.05	0	Ant 1	F70633NVTK	QPSK	25	25	0 mm	right	1:1	0.027	1.387	0.037	0.013	0.018	
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	20.00	18.56	-0.16	0	Ant 1	F70633NVTK	QPSK	1	49	0 mm	left	1:1	0.446	1.393	0.621	0.167	0.233	
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	20.00	18.58	0.03	0	Ant 1	F70633NVTK	QPSK	25	25	0 mm	left	1:1	0.442	1.387	0.613	0.166	0.230	

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 10-22
LTE Band 5 (Cell) Ant 3 Body SAR

MEASUREMENT RESULTS

1 CC Uplink	Component Carrier	FREQUENCY MHz	FREQUENCY Ch.		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g) (W/kg)	Scaling Factor	Reported SAR (1g) (W/kg)	SAR (10g) (W/kg)	Reported SAR (10g) (W/kg)	Plot #
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	19.50	18.21	0.00	0	Ant 3	F70633NVTK	QPSK	1	49	0 mm	back	1:1	0.580	1.346	0.781	0.294	0.396	
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	19.50	18.25	0.01	0	Ant 3	F70633NVTK	QPSK	25	12	0 mm	back	1:1	0.577	1.334	0.770	0.293	0.391	
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	19.50	18.21	0.01	0	Ant 3	F70633NVTK	QPSK	1	49	0 mm	top	1:1	0.648	1.346	0.872	0.241	0.324	
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	19.50	18.25	0.05	0	Ant 3	F70633NVTK	QPSK	25	12	0 mm	top	1:1	0.669	1.334	0.892	0.251	0.335	
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	19.50	18.18	0.03	0	Ant 3	F70633NVTK	QPSK	50	0	0 mm	top	1:1	0.673	1.355	0.912	0.252	0.341	A9
2 CC Uplink	PCC	836.50	20525	Mid	LTE Band 5 (Cell)	10	19.50	18.03	-0.02	0	Ant 3	F70633NVTK	QPSK	50	0	0 mm	top	1:1	0.630	1.403	0.884	0.248	0.348	
2 CC Uplink	SCC	829.30	20453	High	LTE Band 5 (Cell)	5								25	0									
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	19.50	18.21	0.02	0	Ant 3	F70633NVTK	QPSK	1	49	0 mm	bottom	1:1	0.014	1.346	0.019	0.007	0.009	
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	19.50	18.25	0.05	0	Ant 3	F70633NVTK	QPSK	25	12	0 mm	bottom	1:1	0.016	1.334	0.021	0.008	0.011	
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	19.50	18.21	-0.04	0	Ant 3	F70633NVTK	QPSK	1	49	0 mm	right	1:1	0.288	1.346	0.388	0.125	0.168	
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	19.50	18.25	0.03	0	Ant 3	F70633NVTK	QPSK	25	12	0 mm	right	1:1	0.285	1.334	0.380	0.123	0.164	
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	19.50	18.21	0.14	0	Ant 3	F70633NVTK	QPSK	1	49	0 mm	left	1:1	0.032	1.346	0.043	0.016	0.022	
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	19.50	18.25	0.05	0	Ant 3	F70633NVTK	QPSK	25	12	0 mm	left	1:1	0.031	1.334	0.041	0.016	0.021	

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 10-23
LTE Band 66 (AWS) Ant 1 Body SAR

MEASUREMENT RESULTS

FREQUENCY MHz	FREQUENCY Ch.		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g) (W/kg)	Scaling Factor	Reported SAR (1g) (W/kg)	SAR (10g) (W/kg)	Reported SAR (10g) (W/kg)	Plot #
1745.00	132322	Mid	LTE Band 66 (AWS)	20	15.70	14.83	-0.08	0	Ant 1	QLW4563WXL	QPSK	1	50	0 mm	back	1:1	0.593	1.222	0.725	0.292	0.357	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	15.70	14.74	-0.01	0	Ant 1	QLW4563WXL	QPSK	50	25	0 mm	back	1:1	0.582	1.247	0.726	0.285	0.355	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	15.70	14.83	-0.17	0	Ant 1	QLW4563WXL	QPSK	1	50	0 mm	top	1:1	0.017	1.222	0.021	0.007	0.009	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	15.70	14.74	0.05	0	Ant 1	QLW4563WXL	QPSK	50	25	0 mm	top	1:1	0.019	1.247	0.024	0.007	0.009	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	15.70	14.83	0.03	0	Ant 1	QLW4563WXL	QPSK	1	50	0 mm	bottom	1:1	0.142	1.222	0.174	0.068	0.083	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	15.70	14.74	-0.07	0	Ant 1	QLW4563WXL	QPSK	50	25	0 mm	bottom	1:1	0.142	1.247	0.177	0.067	0.084	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	15.70	14.83	0.02	0	Ant 1	QLW4563WXL	QPSK	1	50	0 mm	right	1:1	0.000	1.222	0.000	0.000	0.000	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	15.70	14.74	0.04	0	Ant 1	QLW4563WXL	QPSK	50	25	0 mm	right	1:1	0.000	1.247	0.000	0.000	0.000	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	15.70	14.83	-0.02	0	Ant 1	QLW4563WXL	QPSK	1	50	0 mm	left	1:1	0.605	1.222	0.739	0.230	0.281	
1720.00	132072	Low	LTE Band 66 (AWS)	20	15.70	14.73	-0.02	0	Ant 1	QLW4563WXL	QPSK	50	25	0 mm	left	1:1	0.627	1.250	0.784	0.239	0.299	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	15.70	14.74	0.00	0	Ant 1	QLW4563WXL	QPSK	50	25	0 mm	left	1:1	0.601	1.247	0.749	0.229	0.286	
1770.00	132572	High	LTE Band 66 (AWS)	20	15.70	14.50	-0.02	0	Ant 1	QLW4563WXL	QPSK	50	25	0 mm	left	1:1	0.596	1.318	0.786	0.228	0.301	

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 10-24
LTE Band 66 (AWS) Ant 2b Body SAR

MEASUREMENT RESULTS

FREQUENCY MHz	FREQUENCY Ch.		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g) (W/kg)	Scaling Factor	Reported SAR (1g) (W/kg)	SAR (10g) (W/kg)	Reported SAR (10g) (W/kg)	Plot #
1745.00	132322	Mid	LTE Band 66 (AWS)	20	15.00	14.48	-0.06	0	Ant 2b	QLW4563WXL	QPSK	1	50	0 mm	back	1:1	0.357	1.127	0.402	0.152	0.171	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	15.00	14.41	-0.01	0	Ant 2b	QLW4563WXL	QPSK	50	25	0 mm	back	1:1	0.354	1.146	0.406	0.154	0.176	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	15.00	14.48	-0.10	0	Ant 2b	QLW4563WXL	QPSK	1	50	0 mm	top	1:1	0.000	1.127	0.000	0.000	0.000	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	15.00	14.41	-0.11	0	Ant 2b	QLW4563WXL	QPSK	50	25	0 mm	top	1:1	0.000	1.146	0.000	0.000	0.000	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	15.00	14.48	-0.04	0	Ant 2b	QLW4563WXL	QPSK	1	50	0 mm	bottom	1:1	0.695	1.127	0.783	0.251	0.283	
1720.00	132072	Low	LTE Band 66 (AWS)	20	15.00	14.31	-0.10	0	Ant 2b	QLW4563WXL	QPSK	50	0	0 mm	bottom	1:1	0.676	1.172	0.792	0.245	0.287	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	15.00	14.41	-0.03	0	Ant 2b	QLW4563WXL	QPSK	50	25	0 mm	bottom	1:1	0.743	1.146	0.851	0.266	0.305	A10
1770.00	132572	High	LTE Band 66 (AWS)	20	15.00	14.29	-0.01	0	Ant 2b	QLW4563WXL	QPSK	50	0	0 mm	bottom	1:1	0.694	1.178	0.818	0.253	0.298	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	15.00	14.34	0.00	0	Ant 2b	QLW4563WXL	QPSK	100	0	0 mm	bottom	1:1	0.691	1.164	0.804	0.251	0.292	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	15.00	14.48	-0.16	0	Ant 2b	QLW4563WXL	QPSK	1	50	0 mm	right	1:1	0.054	1.127	0.061	0.023	0.026	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	15.00	14.41	-0.09	0	Ant 2b	QLW4563WXL	QPSK	50	25	0 mm	right	1:1	0.053	1.146	0.061	0.023	0.026	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	15.00	14.48	0.05	0	Ant 2b	QLW4563WXL	QPSK	1	50	0 mm	left	1:1	0.001	1.127	0.001	0.000	0.000	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	15.00	14.41	0.04	0	Ant 2b	QLW4563WXL	QPSK	50	25	0 mm	left	1:1	0.001	1.146	0.001	0.000	0.000	

ANSI / IEEE C95.1 1992 - SAFETY LIMIT	Body
Spatial Peak	1.6 W/kg (mW/g)
Uncontrolled Exposure/General Population	averaged over 1 gram

Table 10-25
LTE Band 66 (AWS) Ant 3 Body SAR

MEASUREMENT RESULTS																									
FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.																(W/kg)		(W/kg)	(W/kg)	(W/kg)	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	16.00	14.60	-0.11	0	Ant 3	QLW4563WXL	QPSK	1	50	0 mm	back	1:1	0.338	1.380	0.466	0.179	0.247	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	16.00	14.39	-0.06	0	Ant 3	QLW4563WXL	QPSK	50	25	0 mm	back	1:1	0.334	1.449	0.484	0.176	0.255	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	16.00	14.60	-0.06	0	Ant 3	QLW4563WXL	QPSK	1	50	0 mm	top	1:1	0.166	1.380	0.229	0.058	0.080	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	16.00	14.39	0.00	0	Ant 3	QLW4563WXL	QPSK	50	25	0 mm	top	1:1	0.142	1.449	0.206	0.050	0.072	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	16.00	14.60	0.06	0	Ant 3	QLW4563WXL	QPSK	1	50	0 mm	bottom	1:1	0.022	1.380	0.030	0.009	0.012	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	16.00	14.39	-0.06	0	Ant 3	QLW4563WXL	QPSK	50	25	0 mm	bottom	1:1	0.020	1.449	0.029	0.009	0.013	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	16.00	14.60	0.05	0	Ant 3	QLW4563WXL	QPSK	1	50	0 mm	right	1:1	0.555	1.380	0.766	0.233	0.322	
1720.00	132072	Low	LTE Band 66 (AWS)	20	16.00	14.35	-0.03	0	Ant 3	QLW4563WXL	QPSK	50	0	0 mm	right	1:1	0.491	1.462	0.718	0.220	0.322	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	16.00	14.39	0.01	0	Ant 3	QLW4563WXL	QPSK	50	25	0 mm	right	1:1	0.552	1.449	0.800	0.232	0.336	
1770.00	132572	High	LTE Band 66 (AWS)	20	16.00	14.38	-0.03	0	Ant 3	QLW4563WXL	QPSK	50	50	0 mm	right	1:1	0.469	1.452	0.681	0.210	0.305	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	16.00	14.35	-0.07	0	Ant 3	QLW4563WXL	QPSK	100	0	0 mm	right	1:1	0.469	1.462	0.686	0.211	0.308	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	16.00	14.60	0.01	0	Ant 3	QLW4563WXL	QPSK	1	50	0 mm	left	1:1	0.000	1.380	0.000	0.000	0.000	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	16.00	14.39	0.07	0	Ant 3	QLW4563WXL	QPSK	50	25	0 mm	left	1:1	0.000	1.449	0.000	0.000	0.000	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																	Body 1.6 W/kg (mW/g) averaged over 1 gram					

Table 10-26
LTE Band 66 (AWS) Ant 4b Body SAR

MEASUREMENT RESULTS																									
FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.																(W/kg)		(W/kg)	(W/kg)	(W/kg)	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	13.30	12.67	-0.03	0	Ant 4b	P3K2L17CM6	QPSK	1	50	0 mm	back	1:1	0.569	1.156	0.658	0.233	0.269	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	13.30	12.68	0.00	0	Ant 4b	P3K2L17CM6	QPSK	50	25	0 mm	back	1:1	0.562	1.153	0.648	0.230	0.265	
1720.00	132072	Low	LTE Band 66 (AWS)	20	13.30	12.49	0.05	0	Ant 4b	P3K2L17CM6	QPSK	1	50	0 mm	top	1:1	0.579	1.205	0.698	0.210	0.253	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	13.30	12.67	-0.05	0	Ant 4b	P3K2L17CM6	QPSK	1	50	0 mm	top	1:1	0.592	1.156	0.684	0.215	0.249	
1770.00	132572	High	LTE Band 66 (AWS)	20	13.30	12.65	-0.02	0	Ant 4b	P3K2L17CM6	QPSK	1	50	0 mm	top	1:1	0.617	1.161	0.716	0.220	0.255	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	13.30	12.68	-0.02	0	Ant 4b	P3K2L17CM6	QPSK	50	25	0 mm	top	1:1	0.588	1.153	0.678	0.214	0.247	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	13.30	12.67	0.01	0	Ant 4b	P3K2L17CM6	QPSK	1	50	0 mm	bottom	1:1	0.002	1.156	0.002	0.000	0.000	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	13.30	12.68	0.01	0	Ant 4b	P3K2L17CM6	QPSK	50	25	0 mm	bottom	1:1	0.001	1.153	0.001	0.000	0.000	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	13.30	12.67	0.05	0	Ant 4b	P3K2L17CM6	QPSK	1	50	0 mm	right	1:1	0.000	1.156	0.000	0.000	0.000	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	13.30	12.68	0.08	0	Ant 4b	P3K2L17CM6	QPSK	50	25	0 mm	right	1:1	0.000	1.153	0.000	0.000	0.000	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	13.30	12.67	0.04	0	Ant 4b	P3K2L17CM6	QPSK	1	50	0 mm	left	1:1	0.051	1.156	0.059	0.021	0.024	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	13.30	12.68	-0.02	0	Ant 4b	P3K2L17CM6	QPSK	50	25	0 mm	left	1:1	0.049	1.153	0.056	0.020	0.023	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																	Body 1.6 W/kg (mW/g) averaged over 1 gram					

Table 10-27
LTE Band 25 (PCS) Ant 1 Body SAR

MEASUREMENT RESULTS																									
FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.																(W/kg)		(W/kg)	(W/kg)	(W/kg)	
1860.00	26140	Low	LTE Band 25 (PCS)	20	15.50	14.33	-0.02	0	Ant 1	R4YNF41VF	QPSK	1	50	0 mm	back	1:1	0.643	1.309	0.842	0.281	0.368	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	15.50	14.42	0.00	0	Ant 1	R4YNF41VF	QPSK	1	50	0 mm	back	1:1	0.624	1.282	0.800	0.273	0.350	
1905.00	26590	High	LTE Band 25 (PCS)	20	15.50	14.22	-0.02	0	Ant 1	R4YNF41VF	QPSK	1	50	0 mm	back	1:1	0.606	1.343	0.814	0.265	0.356	
1860.00	26140	Low	LTE Band 25 (PCS)	20	15.50	14.42	0.01	0	Ant 1	R4YNF41VF	QPSK	50	25	0 mm	back	1:1	0.614	1.282	0.787	0.302	0.387	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	15.50	14.46	-0.01	0	Ant 1	R4YNF41VF	QPSK	50	25	0 mm	back	1:1	0.641	1.271	0.815	0.280	0.356	
1905.00	26590	High	LTE Band 25 (PCS)	20	15.50	14.45	-0.02	0	Ant 1	R4YNF41VF	QPSK	50	25	0 mm	back	1:1	0.579	1.274	0.738	0.274	0.349	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	15.50	14.41	0.02	0	Ant 1	R4YNF41VF	QPSK	100	0	0 mm	back	1:1	0.601	1.285	0.772	0.288	0.370	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	15.50	14.42	0.01	0	Ant 1	R4YNF41VF	QPSK	1	50	0 mm	top	1:1	0.019	1.282	0.024	0.007	0.009	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	15.50	14.46	0.05	0	Ant 1	R4YNF41VF	QPSK	50	25	0 mm	top	1:1	0.019	1.271	0.024	0.008	0.010	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	15.50	14.42	-0.11	0	Ant 1	R4YNF41VF	QPSK	1	50	0 mm	bottom	1:1	0.253	1.282	0.324	0.103	0.132	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	15.50	14.46	0.01	0	Ant 1	R4YNF41VF	QPSK	50	25	0 mm	bottom	1:1	0.254	1.271	0.323	0.103	0.131	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	15.50	14.42	0.08	0	Ant 1	R4YNF41VF	QPSK	1	50	0 mm	right	1:1	0.000	1.282	0.000	0.000	0.000	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	15.50	14.46	0.05	0	Ant 1	R4YNF41VF	QPSK	50	25	0 mm	right	1:1	0.000	1.271	0.000	0.000	0.000	
1860.00	26140	Low	LTE Band 25 (PCS)	20	15.50	14.33	0.20	0	Ant 1	R4YNF41VF	QPSK	1	50	0 mm	left	1:1	0.684	1.309	0.895	0.254	0.332	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	15.50	14.42	-0.09	0	Ant 1	R4YNF41VF	QPSK	1	50	0 mm	left	1:1	0.689	1.282	0.883	0.254	0.326	
1905.00	26590	High	LTE Band 25 (PCS)	20	15.50	14.22	-0.08	0	Ant 1	R4YNF41VF	QPSK	1	50	0 mm	left	1:1	0.675	1.343	0.907	0.256	0.344	
1860.00	26140	Low	LTE Band 25 (PCS)	20	15.50	14.42	-0.02	0	Ant 1	R4YNF41VF	QPSK	50	25	0 mm	left	1:1	0.677	1.282	0.868	0.260	0.333	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	15.50	14.46	0.00	0	Ant 1	R4YNF41VF	QPSK	50	25	0 mm	left	1:1	0.685	1.271	0.871	0.260	0.330	
1905.00	26590	High	LTE Band 25 (PCS)	20	15.50	14.45	-0.01	0	Ant 1	R4YNF41VF	QPSK	50	25	0 mm	left	1:1	0.671	1.274	0.855	0.259	0.330	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	15.50	14.41	-0.05	0	Ant 1	R4YNF41VF	QPSK	100	0	0 mm	left	1:1	0.669	1.285	0.860	0.259	0.333	
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 10-28
LTE Band 25 (PCS) Ant 2b Body SAR

MEASUREMENT RESULTS																									
FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g) (W/kg)	Scaling Factor	Reported SAR (1g) (W/kg)	SAR (10g) (W/kg)	Reported SAR (10g) (W/kg)	Plot #
MHz	Ch.																						
1905.00	26590	High	LTE Band 25 (PCS)	20	14.20	13.43	-0.06	0	Ant 2b	R4YNF41VF	QPSK	1	0	0 mm	back	1:1	0.533	1.194	0.636	0.213	0.254	
1905.00	26590	High	LTE Band 25 (PCS)	20	14.20	13.36	0.05	0	Ant 2b	R4YNF41VF	QPSK	50	50	0 mm	back	1:1	0.525	1.213	0.637	0.209	0.254	
1905.00	26590	High	LTE Band 25 (PCS)	20	14.20	13.43	0.04	0	Ant 2b	R4YNF41VF	QPSK	1	0	0 mm	top	1:1	0.000	1.194	0.000	0.000	0.000	
1905.00	26590	High	LTE Band 25 (PCS)	20	14.20	13.36	0.09	0	Ant 2b	R4YNF41VF	QPSK	50	50	0 mm	top	1:1	0.001	1.213	0.001	0.000	0.000	
1905.00	26590	High	LTE Band 25 (PCS)	20	14.20	13.43	-0.05	0	Ant 2b	R4YNF41VF	QPSK	1	0	0 mm	bottom	1:1	0.655	1.194	0.782	0.226	0.270	
1860.00	26140	Low	LTE Band 25 (PCS)	20	14.20	13.31	0.00	0	Ant 2b	R4YNF41VF	QPSK	50	50	0 mm	bottom	1:1	0.675	1.227	0.828	0.233	0.286	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	14.20	13.34	-0.04	0	Ant 2b	R4YNF41VF	QPSK	50	50	0 mm	bottom	1:1	0.676	1.219	0.824	0.234	0.285	
1905.00	26590	High	LTE Band 25 (PCS)	20	14.20	13.36	0.00	0	Ant 2b	R4YNF41VF	QPSK	50	50	0 mm	bottom	1:1	0.662	1.213	0.803	0.228	0.277	
1905.00	26590	High	LTE Band 25 (PCS)	20	14.20	13.33	0.01	0	Ant 2b	R4YNF41VF	QPSK	100	0	0 mm	bottom	1:1	0.668	1.222	0.816	0.230	0.281	
1905.00	26590	High	LTE Band 25 (PCS)	20	14.20	13.43	-0.10	0	Ant 2b	R4YNF41VF	QPSK	1	0	0 mm	right	1:1	0.031	1.194	0.037	0.013	0.016	
1905.00	26590	High	LTE Band 25 (PCS)	20	14.20	13.36	-0.13	0	Ant 2b	R4YNF41VF	QPSK	50	50	0 mm	right	1:1	0.034	1.213	0.041	0.014	0.017	
1905.00	26590	High	LTE Band 25 (PCS)	20	14.20	13.43	0.04	0	Ant 2b	R4YNF41VF	QPSK	1	0	0 mm	left	1:1	0.000	1.194	0.000	0.000	0.000	
1905.00	26590	High	LTE Band 25 (PCS)	20	14.20	13.36	0.09	0	Ant 2b	R4YNF41VF	QPSK	50	50	0 mm	left	1:1	0.000	1.213	0.000	0.000	0.000	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																	Body 1.6 W/kg (mW/g) averaged over 1 gram					

Table 10-29
LTE Band 25 (PCS) Ant 3 Body SAR

MEASUREMENT RESULTS																									
FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g) (W/kg)	Scaling Factor	Reported SAR (1g) (W/kg)	SAR (10g) (W/kg)	Reported SAR (10g) (W/kg)	Plot #
MHz	Ch.																						
1860.00	26140	Low	LTE Band 25 (PCS)	20	16.90	15.50	-0.02	0	Ant 3	R4YNF41VF	QPSK	1	50	0 mm	back	1:1	0.652	1.380	0.900	0.319	0.440	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	16.90	15.94	-0.01	0	Ant 3	R4YNF41VF	QPSK	1	50	0 mm	back	1:1	0.626	1.247	0.781	0.305	0.380	
1905.00	26590	High	LTE Band 25 (PCS)	20	16.90	15.90	0.05	0	Ant 3	R4YNF41VF	QPSK	1	50	0 mm	back	1:1	0.605	1.259	0.762	0.292	0.368	
1860.00	26140	Low	LTE Band 25 (PCS)	20	16.90	16.00	-0.01	0	Ant 3	R4YNF41VF	QPSK	50	25	0 mm	back	1:1	0.662	1.230	0.814	0.324	0.399	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	16.90	15.97	0.02	0	Ant 3	R4YNF41VF	QPSK	50	25	0 mm	back	1:1	0.640	1.239	0.793	0.303	0.375	
1905.00	26590	High	LTE Band 25 (PCS)	20	16.90	15.96	0.00	0	Ant 3	R4YNF41VF	QPSK	50	25	0 mm	back	1:1	0.600	1.242	0.745	0.290	0.360	
1905.00	26590	High	LTE Band 25 (PCS)	20	16.90	15.93	0.00	0	Ant 3	R4YNF41VF	QPSK	100	0	0 mm	back	1:1	0.602	1.250	0.753	0.291	0.364	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	16.90	15.94	-0.05	0	Ant 3	R4YNF41VF	QPSK	1	50	0 mm	top	1:1	0.428	1.247	0.534	0.165	0.206	
1860.00	26140	Low	LTE Band 25 (PCS)	20	16.90	16.00	-0.02	0	Ant 3	R4YNF41VF	QPSK	50	25	0 mm	top	1:1	0.436	1.230	0.536	0.170	0.209	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	16.90	15.94	0.04	0	Ant 3	R4YNF41VF	QPSK	1	50	0 mm	bottom	1:1	0.015	1.247	0.019	0.006	0.007	
1860.00	26140	Low	LTE Band 25 (PCS)	20	16.90	16.00	0.02	0	Ant 3	R4YNF41VF	QPSK	50	25	0 mm	bottom	1:1	0.014	1.230	0.017	0.006	0.007	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	16.90	15.94	-0.02	0	Ant 3	R4YNF41VF	QPSK	1	50	0 mm	right	1:1	0.057	1.247	0.071	0.025	0.031	
1860.00	26140	Low	LTE Band 25 (PCS)	20	16.90	16.00	0.07	0	Ant 3	R4YNF41VF	QPSK	50	25	0 mm	right	1:1	0.052	1.230	0.064	0.022	0.027	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	16.90	15.94	0.03	0	Ant 3	R4YNF41VF	QPSK	1	50	0 mm	left	1:1	0.000	1.247	0.000	0.000	0.000	
1860.00	26140	Low	LTE Band 25 (PCS)	20	16.90	16.00	0.02	0	Ant 3	R4YNF41VF	QPSK	50	25	0 mm	left	1:1	0.000	1.230	0.000	0.000	0.000	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																	Body 1.6 W/kg (mW/g) averaged over 1 gram					

Table 10-30
LTE Band 25 (PCS) Ant 4b Body SAR

MEASUREMENT RESULTS																									
FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g) (W/kg)	Scaling Factor	Reported SAR (1g) (W/kg)	SAR (10g) (W/kg)	Reported SAR (10g) (W/kg)	Plot #
MHz	Ch.																						
1860.00	26140	Low	LTE Band 25 (PCS)	20	13.20	12.26	0.01	0	Ant 4b	R4YNF41VF	QPSK	1	50	0 mm	back	1:1	0.681	1.242	0.846	0.270	0.335	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	13.20	12.51	0.03	0	Ant 4b	R4YNF41VF	QPSK	1	50	0 mm	back	1:1	0.698	1.172	0.818	0.278	0.326	
1905.00	26590	High	LTE Band 25 (PCS)	20	13.20	12.42	0.00	0	Ant 4b	R4YNF41VF	QPSK	1	50	0 mm	back	1:1	0.725	1.197	0.868	0.288	0.345	
1860.00	26140	Low	LTE Band 25 (PCS)	20	13.20	12.51	0.01	0	Ant 4b	R4YNF41VF	QPSK	50	25	0 mm	back	1:1	0.719	1.172	0.843	0.280	0.328	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	13.20	12.53	0.06	0	Ant 4b	R4YNF41VF	QPSK	50	25	0 mm	back	1:1	0.724	1.167	0.845	0.288	0.336	
1905.00	26590	High	LTE Band 25 (PCS)	20	13.20	12.48	0.02	0	Ant 4b	R4YNF41VF	QPSK	50	25	0 mm	back	1:1	0.738	1.180	0.871	0.294	0.347	
1860.00	26140	Low	LTE Band 25 (PCS)	20	13.20	12.49	0.04	0	Ant 4b	R4YNF41VF	QPSK	100	0	0 mm	back	1:1	0.666	1.178	0.785	0.265	0.312	
1860.00	26140	Low	LTE Band 25 (PCS)	20	13.20	12.26	-0.07	0	Ant 4b	R4YNF41VF	QPSK	1	50	0 mm	top	1:1	0.707	1.242	0.878	0.248	0.308	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	13.20	12.51	-0.07	0	Ant 4b	R4YNF41VF	QPSK	1	50	0 mm	top	1:1	0.707	1.172	0.829	0.248	0.291	
1905.00	26590	High	LTE Band 25 (PCS)	20	13.20	12.42	-0.03	0	Ant 4b	R4YNF41VF	QPSK	1	50	0 mm	top	1:1	0.716	1.197	0.857	0.251	0.300	
1860.00	26140	Low	LTE Band 25 (PCS)	20	13.20	12.51	0.00	0	Ant 4b	R4YNF41VF	QPSK	50	25	0 mm	top	1:1	0.702	1.172	0.823	0.247	0.289	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	13.20	12.53	-0.08	0	Ant 4b	R4YNF41VF	QPSK	50	25	0 mm	top	1:1	0.725	1.167	0.846	0.254	0.296	
1905.00	26590	High	LTE Band 25 (PCS)	20	13.20	12.48	0.05	0	Ant 4b	R4YNF41VF	QPSK	50	25	0 mm	top	1:1	0.751	1.180	0.886	0.262	0.309	A11
1860.00	26140	Low	LTE Band 25 (PCS)	20	13.20	12.49	-0.02	0	Ant 4b	R4YNF41VF	QPSK	100	0	0 mm	top	1:1	0.692	1.178	0.815	0.243	0.286	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	13.20	12.51	0.06	0	Ant 4b	R4YNF41VF	QPSK	1	50	0 mm	bottom	1:1	0.000	1.172	0.000	0.000	0.000	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	13.20	12.53	0.01	0	Ant 4b	R4YNF41VF	QPSK	50	25	0 mm	bottom	1:1	0.000	1.167	0.000	0.000	0.000	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	13.20	12.51	0.01	0	Ant 4b	R4YNF41VF	QPSK	1	50	0 mm	right	1:1	0.001	1.172	0.001	0.000	0.000	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	13.20	12.53	0.06	0	Ant 4b	R4YNF41VF	QPSK	50	25	0 mm	right	1:1	0.000	1.167	0.000	0.000	0.000	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	13.20	12.51	-0.06	0	Ant 4b	R4YNF41VF	QPSK	1	50	0 mm	left	1:1	0.042	1.172	0.049	0.011	0.013	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	13.20	12.53	0.02	0	Ant 4b	R4YNF41VF	QPSK	50	25	0 mm	left	1:1	0.047	1.167	0.055	0.013	0.015	
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 10-31
LTE Band 30 Ant 1 Body SAR

MEASUREMENT RESULTS

FREQUENCY MHz	FREQUENCY Ch.		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g) (W/kg)	Scaling Factor	Reported SAR (1g) (W/kg)	SAR (10g) (W/kg)	Reported SAR (10g) (W/kg)	Plot #
2310.00	27710	Mid	LTE Band 30	10	15.50	14.35	0.03	0	Ant 1	YQ/X07CJDXV	QPSK	1	25	0 mm	back	1:1	0.641	1.303	0.835	0.277	0.361	
2310.00	27710	Mid	LTE Band 30	10	15.50	14.27	-0.04	0	Ant 1	YQ/X07CJDXV	QPSK	25	25	0 mm	back	1:1	0.637	1.327	0.845	0.278	0.369	
2310.00	27710	Mid	LTE Band 30	10	15.50	14.19	-0.01	0	Ant 1	YQ/X07CJDXV	QPSK	50	0	0 mm	back	1:1	0.630	1.352	0.852	0.269	0.364	
2310.00	27710	Mid	LTE Band 30	10	15.50	14.35	-0.14	0	Ant 1	YQ/X07CJDXV	QPSK	1	25	0 mm	top	1:1	0.007	1.303	0.009	0.002	0.003	
2310.00	27710	Mid	LTE Band 30	10	15.50	14.27	0.01	0	Ant 1	YQ/X07CJDXV	QPSK	25	25	0 mm	top	1:1	0.006	1.327	0.008	0.002	0.003	
2310.00	27710	Mid	LTE Band 30	10	15.50	14.35	0.01	0	Ant 1	YQ/X07CJDXV	QPSK	1	25	0 mm	bottom	1:1	0.200	1.303	0.261	0.062	0.081	
2310.00	27710	Mid	LTE Band 30	10	15.50	14.27	-0.05	0	Ant 1	YQ/X07CJDXV	QPSK	25	25	0 mm	bottom	1:1	0.190	1.327	0.252	0.059	0.078	
2310.00	27710	Mid	LTE Band 30	10	15.50	14.35	0.05	0	Ant 1	YQ/X07CJDXV	QPSK	1	25	0 mm	right	1:1	0.000	1.303	0.000	0.000	0.000	
2310.00	27710	Mid	LTE Band 30	10	15.50	14.27	0.02	0	Ant 1	YQ/X07CJDXV	QPSK	25	25	0 mm	right	1:1	0.000	1.327	0.000	0.000	0.000	
2310.00	27710	Mid	LTE Band 30	10	15.50	14.35	-0.05	0	Ant 1	YQ/X07CJDXV	QPSK	1	25	0 mm	left	1:1	0.728	1.303	0.949	0.250	0.326	
2310.00	27710	Mid	LTE Band 30	10	15.50	14.27	0.00	0	Ant 1	YQ/X07CJDXV	QPSK	25	25	0 mm	left	1:1	0.725	1.327	0.962	0.249	0.330	
2310.00	27710	Mid	LTE Band 30	10	15.50	14.19	0.01	0	Ant 1	YQ/X07CJDXV	QPSK	50	0	0 mm	left	1:1	0.719	1.352	0.972	0.247	0.334	

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 10-32
LTE Band 30 Ant 2b Body SAR

MEASUREMENT RESULTS

FREQUENCY MHz	FREQUENCY Ch.		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g) (W/kg)	Scaling Factor	Reported SAR (1g) (W/kg)	SAR (10g) (W/kg)	Reported SAR (10g) (W/kg)	Plot #
2310.00	27710	Mid	LTE Band 30	10	13.90	12.80	0.01	0	Ant 2b	YQ/X07CJDXV	QPSK	1	25	0 mm	back	1:1	0.687	1.288	0.885	0.281	0.362	
2310.00	27710	Mid	LTE Band 30	10	13.90	12.81	-0.01	0	Ant 2b	YQ/X07CJDXV	QPSK	25	12	0 mm	back	1:1	0.689	1.285	0.885	0.281	0.361	
2310.00	27710	Mid	LTE Band 30	10	13.90	12.78	0.00	0	Ant 2b	YQ/X07CJDXV	QPSK	50	0	0 mm	back	1:1	0.750	1.294	0.971	0.296	0.383	
2310.00	27710	Mid	LTE Band 30	10	13.90	12.80	-0.11	0	Ant 2b	YQ/X07CJDXV	QPSK	1	25	0 mm	top	1:1	0.008	1.288	0.010	0.002	0.003	
2310.00	27710	Mid	LTE Band 30	10	13.90	12.81	0.03	0	Ant 2b	YQ/X07CJDXV	QPSK	25	12	0 mm	top	1:1	0.007	1.285	0.009	0.002	0.003	
2310.00	27710	Mid	LTE Band 30	10	13.90	12.80	0.00	0	Ant 2b	YQ/X07CJDXV	QPSK	1	25	0 mm	bottom	1:1	0.421	1.288	0.542	0.150	0.193	
2310.00	27710	Mid	LTE Band 30	10	13.90	12.81	-0.01	0	Ant 2b	YQ/X07CJDXV	QPSK	25	12	0 mm	bottom	1:1	0.422	1.285	0.542	0.150	0.193	
2310.00	27710	Mid	LTE Band 30	10	13.90	12.80	-0.18	0	Ant 2b	YQ/X07CJDXV	QPSK	1	25	0 mm	right	1:1	0.041	1.288	0.053	0.016	0.021	
2310.00	27710	Mid	LTE Band 30	10	13.90	12.81	-0.03	0	Ant 2b	YQ/X07CJDXV	QPSK	25	12	0 mm	right	1:1	0.046	1.285	0.059	0.018	0.023	
2310.00	27710	Mid	LTE Band 30	10	13.90	12.80	-0.20	0	Ant 2b	YQ/X07CJDXV	QPSK	1	25	0 mm	left	1:1	0.033	1.288	0.043	0.013	0.017	
2310.00	27710	Mid	LTE Band 30	10	13.90	12.81	0.06	0	Ant 2b	YQ/X07CJDXV	QPSK	25	12	0 mm	left	1:1	0.034	1.285	0.044	0.014	0.018	

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 10-33
LTE Band 30 Ant 3 Body SAR

MEASUREMENT RESULTS

FREQUENCY MHz	FREQUENCY Ch.		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g) (W/kg)	Scaling Factor	Reported SAR (1g) (W/kg)	SAR (10g) (W/kg)	Reported SAR (10g) (W/kg)	Plot #
2310.00	27710	Mid	LTE Band 30	10	18.50	17.57	-0.03	0	Ant 3	R4YNF41VF	QPSK	1	0	0 mm	back	1:1	0.502	1.239	0.622	0.211	0.261	
2310.00	27710	Mid	LTE Band 30	10	18.50	17.49	0.01	0	Ant 3	R4YNF41VF	QPSK	25	12	0 mm	back	1:1	0.521	1.262	0.658	0.214	0.270	
2310.00	27710	Mid	LTE Band 30	10	18.50	17.57	-0.01	0	Ant 3	R4YNF41VF	QPSK	1	0	0 mm	top	1:1	0.724	1.239	0.897	0.213	0.264	
2310.00	27710	Mid	LTE Band 30	10	18.50	17.49	0.00	0	Ant 3	R4YNF41VF	QPSK	25	12	0 mm	top	1:1	0.731	1.262	0.923	0.215	0.271	
2310.00	27710	Mid	LTE Band 30	10	18.50	17.47	0.00	0	Ant 3	R4YNF41VF	QPSK	50	0	0 mm	top	1:1	0.727	1.268	0.922	0.214	0.271	
2310.00	27710	Mid	LTE Band 30	10	18.50	17.57	0.05	0	Ant 3	R4YNF41VF	QPSK	1	0	0 mm	bottom	1:1	0.010	1.239	0.012	0.004	0.005	
2310.00	27710	Mid	LTE Band 30	10	18.50	17.49	-0.14	0	Ant 3	R4YNF41VF	QPSK	25	12	0 mm	bottom	1:1	0.008	1.262	0.010	0.003	0.004	
2310.00	27710	Mid	LTE Band 30	10	18.50	17.57	0.03	0	Ant 3	R4YNF41VF	QPSK	1	0	0 mm	right	1:1	0.651	1.239	0.807	0.241	0.299	
2310.00	27710	Mid	LTE Band 30	10	18.50	17.49	-0.03	0	Ant 3	R4YNF41VF	QPSK	25	12	0 mm	right	1:1	0.655	1.262	0.827	0.241	0.304	
2310.00	27710	Mid	LTE Band 30	10	18.50	17.47	0.01	0	Ant 3	R4YNF41VF	QPSK	50	0	0 mm	right	1:1	0.646	1.268	0.819	0.239	0.303	
2310.00	27710	Mid	LTE Band 30	10	18.50	17.57	0.05	0	Ant 3	R4YNF41VF	QPSK	1	0	0 mm	left	1:1	0.015	1.239	0.019	0.006	0.007	
2310.00	27710	Mid	LTE Band 30	10	18.50	17.49	-0.05	0	Ant 3	R4YNF41VF	QPSK	25	12	0 mm	left	1:1	0.014	1.262	0.018	0.005	0.006	

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 10-34
LTE Band 30 Ant 4b Body SAR

MEASUREMENT RESULTS

FREQUENCY MHz	FREQUENCY Ch.		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g) (W/kg)	Scaling Factor	Reported SAR (1g) (W/kg)	SAR (10g) (W/kg)	Reported SAR (10g) (W/kg)	Plot #
2310.00	27710	Mid	LTE Band 30	10	13.10	12.25	-0.01	0	Ant 4b	DM6OT1Y2VT	QPSK	1	0	0 mm	back	1:1	0.817	1.216	0.993	0.305	0.371	
2310.00	27710	Mid	LTE Band 30	10	13.10	12.40	0.00	0	Ant 4b	DM6OT1Y2VT	QPSK	25	12	0 mm	back	1:1	0.831	1.175	0.976	0.309	0.363	A12
2310.00	27710	Mid	LTE Band 30	10	13.10	12.20	0.00	0	Ant 4b	DM6OT1Y2VT	QPSK	50	0	0 mm	back	1:1	0.811	1.230	0.998	0.302	0.371	
2310.00	27710	Mid	LTE Band 30	10	13.10	12.25	-0.01	0	Ant 4b	DM6OT1Y2VT	QPSK	1	0	0 mm	top	1:1	0.723	1.216	0.879	0.248	0.302	
2310.00	27710	Mid	LTE Band 30	10	13.10	12.40	0.02	0	Ant 4b	DM6OT1Y2VT	QPSK	25	12	0 mm	top	1:1	0.734	1.175	0.862	0.251	0.295	
2310.00	27710	Mid	LTE Band 30	10	13.10	12.20	0.00	0	Ant 4b	DM6OT1Y2VT	QPSK	50	0	0 mm	top	1:1	0.715	1.230	0.879	0.245	0.301	
2310.00	27710	Mid	LTE Band 30	10	13.10	12.25	0.06	0	Ant 4b	DM6OT1Y2VT	QPSK	1	0	0 mm	bottom	1:1	0.000	1.216	0.000	0.000	0.000	
2310.00	27710	Mid	LTE Band 30	10	13.10	12.40	0.04	0	Ant 4b	DM6OT1Y2VT	QPSK	25	12	0 mm	bottom	1:1	0.000	1.175	0.000	0.000	0.000	
2310.00	27710	Mid	LTE Band 30	10	13.10	12.25	0.04	0	Ant 4b	DM6OT1Y2VT	QPSK	1	0	0 mm	right	1:1	0.012	1.216	0.015	0.004	0.005	
2310.00	27710	Mid	LTE Band 30	10	13.10	12.40	0.06	0	Ant 4b	DM6OT1Y2VT	QPSK	25	12	0 mm	right	1:1	0.009	1.175	0.011	0.004	0.005	
2310.00	27710	Mid	LTE Band 30	10	13.10	12.25	-0.04	0	Ant 4b	DM6OT1Y2VT	QPSK	1	0	0 mm	left	1:1	0.051	1.216	0.062	0.018	0.022	
2310.00	27710	Mid	LTE Band 30	10	13.10	12.40	0.02	0	Ant 4b	DM6OT1Y2VT	QPSK	25	12	0 mm	left	1:1	0.051	1.175	0.060	0.018	0.021	
2310.00	27710	Mid	LTE Band 30	10	13.10	12.40	-0.02	0	Ant 4b	DM6OT1Y2VT	QPSK	25	12	0 mm	back	1:1	0.799	1.175	0.939	0.304	0.357	

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Spatial Peak
Uncontrolled Exposure/General Population

Body
1.6 W/kg (mW/g)
averaged over 1 gram

Table 10-35
LTE Band 7 Ant 1 Body SAR

MEASUREMENT RESULTS																											
1 CC Uplink	Component Carrier	FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g) (W/kg)	Scaling Factor	Reported SAR (1g) (W/kg)	SAR (10g) (W/kg)	Reported SAR (10g) (W/kg)	Plot #
		MHz	Ch.																								
1 CC Uplink	N/A	2510.00	20850	Low	LTE Band 7	20	13.80	13.01	-0.02	0	Ant 1	R4YNF41VF	QPSK	1	0	0 mm	back	1:1	0.428	1.199	0.513	0.176	0.211				
1 CC Uplink	N/A	2510.00	20850	Low	LTE Band 7	20	13.80	13.17	0.00	0	Ant 1	R4YNF41VF	QPSK	50	0	0 mm	back	1:1	0.433	1.156	0.501	0.177	0.205				
1 CC Uplink	N/A	2510.00	20850	Low	LTE Band 7	20	13.80	13.01	-0.04	0	Ant 1	R4YNF41VF	QPSK	1	0	0 mm	top	1:1	0.036	1.199	0.043	0.012	0.014				
1 CC Uplink	N/A	2510.00	20850	Low	LTE Band 7	20	13.80	13.17	-0.13	0	Ant 1	R4YNF41VF	QPSK	50	0	0 mm	top	1:1	0.041	1.156	0.047	0.014	0.016				
1 CC Uplink	N/A	2510.00	20850	Low	LTE Band 7	20	13.80	13.01	0.06	0	Ant 1	R4YNF41VF	QPSK	1	0	0 mm	bottom	1:1	0.198	1.199	0.237	0.066	0.079				
1 CC Uplink	N/A	2510.00	20850	Low	LTE Band 7	20	13.80	13.17	0.04	0	Ant 1	R4YNF41VF	QPSK	50	0	0 mm	bottom	1:1	0.208	1.156	0.240	0.069	0.080				
1 CC Uplink	N/A	2510.00	20850	Low	LTE Band 7	20	13.80	13.01	0.07	0	Ant 1	R4YNF41VF	QPSK	1	0	0 mm	right	1:1	0.000	1.199	0.000	0.000	0.000				
1 CC Uplink	N/A	2510.00	20850	Low	LTE Band 7	20	13.80	13.17	0.01	0	Ant 1	R4YNF41VF	QPSK	50	0	0 mm	right	1:1	0.000	1.156	0.000	0.000	0.000				
1 CC Uplink	N/A	2510.00	20850	Low	LTE Band 7	20	13.80	13.01	0.01	0	Ant 1	R4YNF41VF	QPSK	1	0	0 mm	left	1:1	0.719	1.199	0.862	0.250	0.300				
1 CC Uplink	N/A	2535.00	21100	Mid	LTE Band 7	20	13.80	12.98	-0.01	0	Ant 1	R4YNF41VF	QPSK	1	0	0 mm	left	1:1	0.724	1.230	0.891	0.249	0.306				
1 CC Uplink	N/A	2560.00	21350	High	LTE Band 7	20	13.80	13.00	0.00	0	Ant 1	R4YNF41VF	QPSK	1	0	0 mm	left	1:1	0.666	1.202	0.801	0.231	0.278				
1 CC Uplink	N/A	2510.00	20850	Low	LTE Band 7	20	13.80	13.17	-0.01	0	Ant 1	R4YNF41VF	QPSK	50	0	0 mm	left	1:1	0.756	1.156	0.874	0.261	0.302				
1 CC Uplink	N/A	2535.00	21100	Mid	LTE Band 7	20	13.80	12.98	-0.03	0	Ant 1	R4YNF41VF	QPSK	50	0	0 mm	left	1:1	0.628	1.208	0.759	0.215	0.260				
1 CC Uplink	N/A	2560.00	21350	High	LTE Band 7	20	13.80	13.08	-0.03	0	Ant 1	R4YNF41VF	QPSK	50	0	0 mm	left	1:1	0.571	1.180	0.674	0.195	0.230				
1 CC Uplink	N/A	2510.00	20850	Low	LTE Band 7	20	13.80	13.00	-0.01	0	Ant 1	R4YNF41VF	QPSK	100	0	0 mm	left	1:1	0.657	1.202	0.790	0.225	0.270				
2 CC Uplink	PCC	2535.00	21100	Mid	LTE Band 7	20	13.80	12.85	-0.05	0	Ant 1	R4YNF41VF	QPSK	1	0	0 mm	left	1:1	0.695	1.245	0.865	0.235	0.293				
2 CC Uplink	SCC	2515.20	20902	Mid	LTE Band 7	20								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 10-36
LTE Band 7 Ant 2b Body SAR

MEASUREMENT RESULTS																											
1 CC Uplink | 2 CC Uplink	Component Carrier	FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g) (W/kg)	Scaling Factor	Reported SAR (1g) (W/kg)	SAR (10g) (W/kg)	Reported SAR (10g) (W/kg)	Plot #
		MHz	Ch.																								
1 CC Uplink	N/A	2510.00	20850	Low	LTE Band 7	20	13.20	11.43	-0.01	0	Ant 2b	P3K2L17CM6	QPSK	1	50	0 mm	back	1:1	0.608	1.503	0.914	0.247	0.371				
1 CC Uplink	N/A	2535.00	21100	Mid	LTE Band 7	20	13.20	11.56	0.01	0	Ant 2b	P3K2L17CM6	QPSK	1	50	0 mm	back	1:1	0.556	1.459	0.811	0.232	0.338				
1 CC Uplink	N/A	2560.00	21350	High	LTE Band 7	20	13.20	11.31	-0.01	0	Ant 2b	P3K2L17CM6	QPSK	1	0	0 mm	back	1:1	0.645	1.545	0.997	0.269	0.416				
1 CC Uplink	N/A	2560.00	21350	High	LTE Band 7	20	13.20	11.41	0.00	0	Ant 2b	P3K2L17CM6	QPSK	1	50	0 mm	back	1:1	0.658	1.510	0.994	0.275	0.415				
1 CC Uplink	N/A	2510.00	20850	Low	LTE Band 7	20	13.20	11.46	-0.02	0	Ant 2b	P3K2L17CM6	QPSK	50	0	0 mm	back	1:1	0.623	1.493	0.930	0.253	0.378				
1 CC Uplink	N/A	2535.00	21100	Mid	LTE Band 7	20	13.20	11.47	-0.02	0	Ant 2b	P3K2L17CM6	QPSK	50	0	0 mm	back	1:1	0.581	1.489	0.865	0.238	0.354				
1 CC Uplink	N/A	2560.00	21350	High	LTE Band 7	20	13.20	11.46	0.00	0	Ant 2b	P3K2L17CM6	QPSK	50	0	0 mm	back	1:1	0.614	1.493	0.917	0.248	0.370				
1 CC Uplink	N/A	2510.00	20850	Low	LTE Band 7	20	13.20	11.45	-0.02	0	Ant 2b	P3K2L17CM6	QPSK	100	0	0 mm	back	1:1	0.616	1.496	0.922	0.250	0.374				
2 CC Uplink	PCC	2560.00	21350	High	LTE Band 7	20	13.20	11.58	0.00	0	Ant 2b	P3K2L17CM6	QPSK	1	0	0 mm	back	1:1	0.685	1.452	0.995	0.284	0.412				
2 CC Uplink	SCC	2540.20	21152	High	LTE Band 7	20								1	99												
1 CC Uplink	N/A	2535.00	21100	Mid	LTE Band 7	20	13.20	11.56	0.01	0	Ant 2b	P3K2L17CM6	QPSK	1	50	0 mm	top	1:1	0.003	1.459	0.004	0.000	0.000				
1 CC Uplink	N/A	2535.00	21100	Mid	LTE Band 7	20	13.20	11.47	0.17	0	Ant 2b	P3K2L17CM6	QPSK	50	0	0 mm	top	1:1	0.004	1.489	0.006	0.000	0.000				
1 CC Uplink	N/A	2535.00	21100	Mid	LTE Band 7	20	13.20	11.56	0.05	0	Ant 2b	P3K2L17CM6	QPSK	1	50	0 mm	bottom	1:1	0.270	1.459	0.394	0.093	0.136				
1 CC Uplink	N/A	2535.00	21100	Mid	LTE Band 7	20	13.20	11.47	0.07	0	Ant 2b	P3K2L17CM6	QPSK	50	0	0 mm	bottom	1:1	0.274	1.489	0.408	0.095	0.141				
1 CC Uplink	N/A	2535.00	21100	Mid	LTE Band 7	20	13.20	11.56	0.08	0	Ant 2b	P3K2L17CM6	QPSK	1	50	0 mm	right	1:1	0.014	1.459	0.020	0.005	0.007				
1 CC Uplink	N/A	2535.00	21100	Mid	LTE Band 7	20	13.20	11.47	0.04	0	Ant 2b	P3K2L17CM6	QPSK	50	0	0 mm	right	1:1	0.013	1.489	0.019	0.005	0.007				
1 CC Uplink	N/A	2535.00	21100	Mid	LTE Band 7	20	13.20	11.56	0.06	0	Ant 2b	P3K2L17CM6	QPSK	1	50	0 mm	left	1:1	0.013	1.459	0.019	0.005	0.007				
1 CC Uplink	N/A	2535.00	21100	Mid	LTE Band 7	20	13.20	11.47	0.07	0	Ant 2b	P3K2L17CM6	QPSK	50	0	0 mm	left	1:1	0.014	1.489	0.021	0.005	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													

Table 10-37
LTE Band 7 Ant 3 Body SAR

MEASUREMENT RESULTS																											
1 CC Uplink | 2 CC Uplink	Component Carrier	FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g) (W/kg)	Scaling Factor	Reported SAR (1g) (W/kg)	SAR (10g) (W/kg)	Reported SAR (10g) (W/kg)	Plot #
		MHz	Ch.																								
1 CC Uplink	N/A	2560.00	21350	High	LTE Band 7	20	15.70	14.76	0.00	0	Ant 3	P3K2L17CM6	QPSK	1	50	0 mm	back	1:1	0.362	1.242	0.450	0.149	0.185				
1 CC Uplink	N/A	2560.00	21350	High	LTE Band 7	20	15.70	14.81	0.00	0	Ant 3	P3K2L17CM6	QPSK	50	25	0 mm	back	1:1	0.370	1.227	0.454	0.152	0.187				
1 CC Uplink	N/A	2510.00	20850	Low	LTE Band 7	20	15.70	14.45	0.02	0	Ant 3	P3K2L17CM6	QPSK	1	99	0 mm	top	1:1	0.670	1.334	0.894	0.231	0.308				
1 CC Uplink	N/A	2535.00	21100	Mid	LTE Band 7	20	15.70	14.73	0.01	0	Ant 3	P3K2L17CM6	QPSK	1	99	0 mm	top	1:1	0.729	1.250	0.911	0.247	0.309				
1 CC Uplink	N/A	2560.00	21350	High	LTE Band 7	20	15.70	14.76	0.04	0	Ant 3	P3K2L17CM6	QPSK	1	50	0 mm	top	1:1	0.760	1.242	0.944	0.255	0.317				
1 CC Uplink	N/A	2510.00	20850	Low	LTE Band 7	20	15.70	14.70	-0.01	0	Ant 3	P3K2L17CM6	QPSK	50	25	0 mm	top	1:1	0.678	1.259	0.854	0.234	0.295				
1 CC Uplink	N/A	2535.00	21100	Mid	LTE Band 7	20	15.70	14.75	0.00	0	Ant 3	P3K2L17CM6	QPSK	50	50	0 mm	top	1:1	0.713	1.245	0.888	0.247	0.308				
1 CC Uplink	N/A	2560.00	21350	High	LTE Band 7	20	15.70	14.79	0.00	0	Ant 3	P3K2L17CM6	QPSK	50	0	0 mm	top	1:1	0.715	1.233	0.882	0.246	0.303				
1 CC Uplink	N/A	2560.00	21350	High	LTE Band 7	20	15.70	14.81	0.02	0	Ant 3	P3K2L17CM6	QPSK	50	25	0 mm	top	1:1	0.774	1.227	0.950	0.259	0.318	A13			
1 CC Uplink	N/A	2560.00	21350	High	LTE Band 7	20	15.70	14.74	0.02	0	Ant 3	P3K2L17CM6	QPSK	100	0	0 mm	top	1:1	0.752	1.247	0.938	0.255	0.318				
2 CC Uplink	PCC	2560.00	21350	High	LTE Band 7	20	15.70	14.76	0.01	0	Ant 3	P3K2L17CM6	QPSK	50	0	0 mm	top	1:1	0.741	1.242	0.920	0.250	0.311				
2 CC Uplink	SCC	2540.20	21152	High	LTE Band 7	20								50	50												
1 CC Uplink	N/A	2560.00	21350	High	LTE Band 7	20	15.70	14.76	0.07	0	Ant 3	P3K2L17CM6	QPSK	1	50	0 mm	bottom	1:1	0.000	1.242	0.000	0.000	0.000				
1 CC Uplink	N/A	2560.00	21350	High	LTE Band 7	20	15.70	14.81	0.02	0	Ant 3	P3K2L17CM6	QPSK	50	25	0 mm	bottom	1:1	0.002	1.227	0.002	0.000	0.000				
1 CC Uplink	N/A	2560.00	21350	High	LTE Band 7	20	15.70	14.76	0.04	0	Ant 3	P3K2L17CM6	QPSK	1	50	0 mm	right	1:1	0.179	1.242	0.222	0.065	0.081				
1 CC Uplink	N/A	2560.00	21350	High	LTE Band 7	20	15.70	14.81	0.00	0	Ant 3	P3K2L17CM6	QPSK	50	25	0 mm	right	1:1	0.200	1.227	0.245	0.070	0.086				
1 CC Uplink	N/A	2560.00	21350	High	LTE Band 7	20	15.70	14.76	0.08	0	Ant 3	P3K2L17CM6	QPSK	1	50	0 mm	left	1:1	0.005	1.242	0.006	0.000	0.000				
1 CC Uplink	N/A	2560.00	21350	High	LTE Band 7	20	15.70	14.81	0.04	0	Ant 3	P3K2L17CM6	QPSK	50	25	0 mm	left	1:1	0.006	1.227	0.007	0.001	0.001				
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
LTE Band 7 Ant 4b Body SAR

MEASUREMENT RESULTS																													
1 CC Uplink | 2 CC Uplink	Component Carrier	FREQUENCY MHz	FREQUENCY Ch.	Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g) (W/kg)	Scaling Factor	Reported SAR (1g) (W/kg)	SAR (10g) (W/kg)	Reported SAR (10g) (W/kg)	Plot #
1 CC Uplink	N/A	2535.00	21100	Mid	LTE Band 7	20	13.00	12.11	0.02	0	Ant 4b	F706J3NVTK	QPSK	1	50	0 mm	back	1:1	0.617	1.227	0.757	0.222	0.272						
1 CC Uplink	N/A	2535.00	21100	Mid	LTE Band 7	20	13.00	12.12	-0.03	0	Ant 4b	F706J3NVTK	QPSK	50	25	0 mm	back	1:1	0.614	1.225	0.752	0.222	0.272						
1 CC Uplink	N/A	2510.00	20850	Low	LTE Band 7	20	13.00	11.82	-0.01	0	Ant 4b	F706J3NVTK	QPSK	1	50	0 mm	top	1:1	0.752	1.312	0.987	0.243	0.319						
1 CC Uplink	N/A	2510.00	20850	Low	LTE Band 7	20	13.00	11.80	0.00	0	Ant 4b	F706J3NVTK	QPSK	1	99	0 mm	top	1:1	0.688	1.318	0.907	0.227	0.299						
1 CC Uplink	N/A	2535.00	21100	Mid	LTE Band 7	20	13.00	12.11	-0.02	0	Ant 4b	F706J3NVTK	QPSK	1	50	0 mm	top	1:1	0.743	1.227	0.912	0.238	0.292						
1 CC Uplink	N/A	2560.00	21350	High	LTE Band 7	20	13.00	11.92	-0.02	0	Ant 4b	F706J3NVTK	QPSK	1	50	0 mm	top	1:1	0.722	1.282	0.926	0.231	0.296						
1 CC Uplink	N/A	2510.00	20850	Low	LTE Band 7	20	13.00	12.06	0.00	0	Ant 4b	F706J3NVTK	QPSK	50	0	0 mm	top	1:1	0.757	1.242	0.940	0.246	0.306						
1 CC Uplink	N/A	2535.00	21100	Mid	LTE Band 7	20	13.00	12.12	0.01	0	Ant 4b	F706J3NVTK	QPSK	50	25	0 mm	top	1:1	0.752	1.225	0.921	0.241	0.295						
1 CC Uplink	N/A	2560.00	21350	High	LTE Band 7	20	13.00	12.03	-0.02	0	Ant 4b	F706J3NVTK	QPSK	50	0	0 mm	top	1:1	0.746	1.250	0.933	0.239	0.299						
1 CC Uplink	N/A	2535.00	21100	Mid	LTE Band 7	20	13.00	12.09	-0.01	0	Ant 4b	F706J3NVTK	QPSK	100	0	0 mm	top	1:1	0.737	1.233	0.909	0.234	0.289						
2 CC Uplink	PCC	2510.00	20850	Low	LTE Band 7	20	13.00	11.68	-0.04	0	Ant 4b	F706J3NVTK	QPSK	1	99	0 mm	top	1:1	0.700	1.355	0.949	0.232	0.314						
2 CC Uplink	SCC	2529.80	21048	Low	LTE Band 7	20								1	0														
1 CC Uplink	N/A	2535.00	21100	Mid	LTE Band 7	20	13.00	12.11	0.08	0	Ant 4b	F706J3NVTK	QPSK	1	50	0 mm	bottom	1:1	0.000	1.227	0.000	0.000	0.000						
1 CC Uplink	N/A	2535.00	21100	Mid	LTE Band 7	20	13.00	12.12	0.06	0	Ant 4b	F706J3NVTK	QPSK	50	25	0 mm	bottom	1:1	0.000	1.225	0.000	0.000	0.000						
1 CC Uplink	N/A	2535.00	21100	Mid	LTE Band 7	20	13.00	12.11	0.06	0	Ant 4b	F706J3NVTK	QPSK	1	50	0 mm	right	1:1	0.009	1.227	0.011	0.002	0.002						
1 CC Uplink	N/A	2535.00	21100	Mid	LTE Band 7	20	13.00	12.12	0.02	0	Ant 4b	F706J3NVTK	QPSK	50	25	0 mm	right	1:1	0.010	1.225	0.012	0.002	0.002						
1 CC Uplink	N/A	2535.00	21100	Mid	LTE Band 7	20	13.00	12.11	0.02	0	Ant 4b	F706J3NVTK	QPSK	1	50	0 mm	left	1:1	0.031	1.227	0.038	0.011	0.013						
1 CC Uplink	N/A	2535.00	21100	Mid	LTE Band 7	20	13.00	12.12	0.10	0	Ant 4b	F706J3NVTK	QPSK	50	25	0 mm	left	1:1	0.033	1.225	0.040	0.012	0.015						
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 10-39
LTE Band 41 Ant 1 Body SAR

MEASUREMENT RESULTS																													
1 CC Uplink | 2 CC Uplink	Component Carrier	FREQUENCY MHz	FREQUENCY Ch.	Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g) (W/kg)	Scaling Factor	Reported SAR (1g) (W/kg)	SAR (10g) (W/kg)	Reported SAR (10g) (W/kg)	Plot #
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	LTE Band 41	20	15.80	15.25	0.03	0	Ant 1	F706J3NVTK	QPSK	1	50	0 mm	back	1:1.58	0.297	1.135	0.337	0.123	0.140						
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	LTE Band 41	20	15.80	15.31	-0.01	0	Ant 1	F706J3NVTK	QPSK	50	25	0 mm	back	1:1.58	0.310	1.119	0.347	0.129	0.144						
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	LTE Band 41	20	15.80	15.25	0.20	0	Ant 1	F706J3NVTK	QPSK	1	50	0 mm	top	1:1.58	0.001	1.135	0.001	0.000	0.000						
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	LTE Band 41	20	15.80	15.31	0.09	0	Ant 1	F706J3NVTK	QPSK	50	25	0 mm	top	1:1.58	0.000	1.119	0.000	0.000	0.000						
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	LTE Band 41	20	15.80	15.25	0.03	0	Ant 1	F706J3NVTK	QPSK	1	50	0 mm	bottom	1:1.58	0.194	1.135	0.220	0.065	0.074						
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	LTE Band 41	20	15.80	15.31	-0.06	0	Ant 1	F706J3NVTK	QPSK	50	25	0 mm	bottom	1:1.58	0.201	1.119	0.225	0.067	0.075						
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	LTE Band 41	20	15.80	15.25	0.04	0	Ant 1	F706J3NVTK	QPSK	1	50	0 mm	right	1:1.58	0.000	1.135	0.000	0.000	0.000						
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	LTE Band 41	20	15.80	15.31	0.01	0	Ant 1	F706J3NVTK	QPSK	50	25	0 mm	right	1:1.58	0.000	1.119	0.000	0.000	0.000						
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	LTE Band 41	20	15.80	14.90	-0.01	0	Ant 1	F706J3NVTK	QPSK	1	50	0 mm	left	1:1.58	0.655	1.230	0.806	0.223	0.274						
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	LTE Band 41	20	15.80	15.25	0.01	0	Ant 1	F706J3NVTK	QPSK	1	50	0 mm	left	1:1.58	0.570	1.135	0.647	0.195	0.221						
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	15.80	14.66	-0.02	0	Ant 1	F706J3NVTK	QPSK	1	0	0 mm	left	1:1.58	0.433	1.300	0.563	0.148	0.192						
1 CC Uplink - Power Class 3	N/A	2636.50	41055	Mid-High	LTE Band 41	20	15.80	14.56	-0.05	0	Ant 1	F706J3NVTK	QPSK	1	50	0 mm	left	1:1.58	0.203	1.330	0.270	0.069	0.092						
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	15.80	15.14	0.06	0	Ant 1	F706J3NVTK	QPSK	1	99	0 mm	left	1:1.58	0.084	1.164	0.098	0.029	0.034						
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	LTE Band 41	20	15.80	14.95	0.01	0	Ant 1	F706J3NVTK	QPSK	50	25	0 mm	left	1:1.58	0.666	1.216	0.810	0.227	0.276						
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	LTE Band 41	20	15.80	14.90	-0.03	0	Ant 1	F706J3NVTK	QPSK	50	50	0 mm	left	1:1.58	0.639	1.230	0.786	0.208	0.256						
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	LTE Band 41	20	15.80	15.31	-0.01	0	Ant 1	F706J3NVTK	QPSK	50	25	0 mm	left	1:1.58	0.583	1.119	0.652	0.198	0.222						
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	15.80	14.73	-0.03	0	Ant 1	F706J3NVTK	QPSK	50	25	0 mm	left	1:1.58	0.399	1.279	0.510	0.135	0.173						
1 CC Uplink - Power Class 3	N/A	2636.50	41055	Mid-High	LTE Band 41	20	15.80	14.62	-0.11	0	Ant 1	F706J3NVTK	QPSK	50	25	0 mm	left	1:1.58	0.229	1.312	0.300	0.077	0.101						
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	15.80	15.16	-0.13	0	Ant 1	F706J3NVTK	QPSK	50	25	0 mm	left	1:1.58	0.099	1.159	0.115	0.033	0.038						
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	15.80	14.96	-0.01	0	Ant 1	F706J3NVTK	QPSK	100	0	0 mm	left	1:1.58	0.396	1.213	0.480	0.134	0.163						
1 CC Uplink - Power Class 2	N/A	2506.00	39750	Low	LTE Band 41	20	17.40	16.39	-0.01	0	Ant 1	F706J3NVTK	QPSK	50	25	0 mm	left	1:2.31	0.574	1.262	0.724	0.199	0.251						
1 CC Uplink - Power Class 2	N/A	2506.00	39750	Low	LTE Band 41	20	17.40	16.43	0.03	0	Ant 1	F706J3NVTK	QPSK	50	50	0 mm	left	1:2.31	0.607	1.250	0.759	0.201	0.251						
2 CC Uplink - Power Class 3	PCC	2506.00	39750	Low	LTE Band 41	20	15.80	14.60	0.02	0	Ant 1	F706J3NVTK	QPSK	50	50	0 mm	left	1:1.58	0.603	1.318	0.795	0.192	0.253						
2 CC Uplink - Power Class 3	SCC	2525.80	39948	Low	LTE Band 41	20								50	0														
2 CC Uplink - Power Class 2	PCC	2506.00	39750	Low	LTE Band 41	20	17.40	16.26	0.00	0	Ant 1	F706J3NVTK	QPSK	50	50	0 mm	left	1:2.31	0.557	1.300	0.724	0.190	0.247						
2 CC Uplink - Power Class 2	SCC	2525.80	39948	Low	LTE Band 41	20								50	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 10-40
LTE Band 41 Ant 2b Body SAR

MEASUREMENT RESULTS																													
1 CC Uplink | 2 CC Uplink	Component Carrier	FREQUENCY MHz	FREQUENCY Ch.	Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g) (W/kg)	Scaling Factor	Reported SAR (1g) (W/kg)	SAR (10g) (W/kg)	Reported SAR (10g) (W/kg)	Plot #
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	LTE Band 41	20	14.20	13.24	-0.02	0	Ant 2b	F706J3NVTK	QPSK	1	99	0 mm	back	1:1.58	0.416	1.247	0.519	0.155	0.193						
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	LTE Band 41	20	14.20	13.30	0.00	0	Ant 2b	F706J3NVTK	QPSK	1	50	0 mm	back	1:1.58	0.654	1.230	0.804	0.257	0.316						
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	14.20	13.33	0.05	0	Ant 2b	F706J3NVTK	QPSK	1	99	0 mm	back	1:1.58	0.637	1.222	0.778	0.249	0.304						
1 CC Uplink - Power Class 3	N/A	2636.50	41055	Mid-High	LTE Band 41	20	14.20	13.29	0.06	0	Ant 2b	F706J3NVTK	QPSK	1	0	0 mm	back	1:1.58	0.697	1.233	0.859	0.271	0.334						
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	14.20	13.45	-0.05	0	Ant 2b	F706J3NVTK	QPSK	1	99	0 mm	back	1:1.58	0.559	1.189	0.665	0.230	0.273						
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	LTE Band 41	20	14.20	13.37	0.02	0	Ant 2b	F706J3NVTK	QPSK	50	0	0 mm	back	1:1.58	0.589	1.211	0.713	0.237	0.287						
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	LTE Band 41	20	14.20	13.40	0.03	0	Ant 2b	F706J3NVTK	QPSK	50	0	0 mm	back	1:1.58	0.673	1.202	0.809	0.263	0.316						
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	14.20	13.39	0.00	0	Ant 2b	F706J3NVTK	QPSK	50	25	0 mm	back	1:1.58	0.710	1.205	0.856	0.275	0.331						
1 CC Uplink - Power Class 3	N/A	2636.50	41055	Mid-High	LTE Band 41	20	14.20	13.38	0.03	0	Ant 2b	F706J3NVTK	QPSK	50	0	0 mm	back	1:1.58	0.730	1.208	0.882	0.274	0.331						
1 CC Uplink - Power Class 3	N/A	2636.50	41055	Mid-High	LTE Band 41	20	14.20	13.41	-0.04	0	Ant 2b	F706J3NVTK	QPSK	50	25	0 mm	back	1:1.58	0.765	1.199	0.917	0.292	0.350	A14					
1 CC Uplink - Power Class 2	N/A	2636.50	41055	Mid-High	LTE Band 41	20	15.80	14.00	0.01	0	Ant 2b	F706J3NVTK	QPSK	50	0	0 mm	back	1:2.31	0.490	1.514	0.742	0.189	0.286						
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	14.20	13.48	-0.04	0	Ant 2b	F706J3NVTK	QPSK	50	25	0 mm	back	1:1.58	0.557	1.180	0.657	0.206	0.243						
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	14.20	13.43	-0.02	0	Ant 2b	F706J3NVTK	QPSK	100	0	0 mm	back	1:1.58	0.597	1.194	0.713	0.241	0.288						
1 CC Uplink - Power Class 2	N/A	2636.50	41055	Mid-High	LTE Band 41	20	15.80	14.00	-0.09	0	Ant 2b	F706J3NVTK	QPSK	50	0	0 mm	back	1:2.31	0.576	1.514	0.872	0.234	0.354						
1 CC Uplink - Power Class 2	N/A	2636.50	41055	Mid-High	LTE Band 41	20	15.80	14.27	-0.03	0	Ant 2b	F706J3NVTK	QPSK	50	25	0 mm	back	1:2.31	0.540	1.422	0.768	0.203	0.269						
2 CC Uplink - Power Class 3	PCC	2636.50	41055	Mid-High	LTE Band 41	20	14.20	13.03	0.09	0	Ant 2b	F706J3NVTK	QPSK	50	0	0 mm	back	1:1.58	0.671	1.309	0.878	0.257	0.336						
2 CC Uplink - Power Class 3	SCC	2616.70	40857	Mid-High	LTE Band 41	20								50	50														
2 CC Uplink - Power Class 2	PCC	2636.50	41055	Mid-High	LTE Band 41	20	15.80	14.40	0.05	0	Ant 2b	F706J3NVTK	QPSK	50	0	0 mm	back	1:2.31	0.607	1.380	0.838	0.230	0.317						
2 CC Uplink - Power Class 2	SCC	2616.70	40857	Mid-High	LTE Band 41	20								50	50														
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	14.20	13.45	0.09	0	Ant 2b	F706J3NVTK	QPSK	1	99	0 mm	top	1:1.58	0.000	1.189	0.000	0.000	0.000						
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	14.20	13.48	0.03	0	Ant 2b	F706J3NVTK	QPSK	50	25	0 mm	top	1:1.58	0.000	1.180	0.000	0.000	0.000						
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	14.20	13.45	-0.01	0	Ant 2b	F706J3NVTK	QPSK	1	99	0 mm	bottom	1:1.58	0.269	1.189	0.320	0.091	0.108						
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	14.20	13.46	-0.02	0	Ant 2b	F706J3NVTK	QPSK	50	25	0 mm	bottom	1:1.58	0.269	1.180	0.317	0.091	0.107						
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	14.20	13.45	-0.14	0	Ant 2b	F706J3NVTK	QPSK	1	99	0 mm	right	1:1.58	0.014	1.189	0.017	0.004	0.005						
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	14.20	13.48	-0.06	0	Ant 2b	F706J3NVTK	QPSK	50	25	0 mm	right	1:1.58	0.016	1.180	0.019	0.005	0.006						
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	14.20	13.45	0.03	0	Ant 2b	F706J3NVTK	QPSK	1	99	0 mm	left	1:1.58	0.009	1.189	0.011	0.002	0.002						
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	14.20	13.48	0.17	0	Ant 2b	F706J3NVTK	QPSK	50	25	0 mm	left	1:1.58	0.010	1.180	0.012	0.003	0.004						
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																	Body 1.6 W/kg (mW/g) averaged over 1 gram												

Table 10-41
LTE Band 41 Ant 3 Body SAR

MEASUREMENT RESULTS																														
1 CC Uplink | 2 CC Uplink	Component Carrier	FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g) (W/kg)	Scaling Factor	Reported SAR (1g) (W/kg)	SAR (10g) (W/kg)	Reported SAR (10g) (W/kg)	Plot #
		MHz	Ch.																						
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	17.20	16.15	0.01	0	Ant 3	P3K2L17CM6	QPSK	1	99	0 mm	back	1:1.58	0.272	1.274	0.347	0.089	0.126	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	17.20	16.10	-0.03	0	Ant 3	P3K2L17CM6	QPSK	50	50	0 mm	back	1:1.58	0.258	1.288	0.332	0.084	0.121	
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	LTE Band 41	20	17.20	15.65	0.01	0	Ant 3	P3K2L17CM6	QPSK	1	50	0 mm	top	1:1.58	0.525	1.429	0.750	0.181	0.259	
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	LTE Band 41	20	17.20	15.84	0.00	0	Ant 3	P3K2L17CM6	QPSK	1	99	0 mm	top	1:1.58	0.547	1.368	0.748	0.185	0.253	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	17.20	15.90	0.07	0	Ant 3	P3K2L17CM6	QPSK	1	0	0 mm	top	1:1.58	0.572	1.349	0.772	0.191	0.258	
1 CC Uplink - Power Class 3	N/A	2636.50	41055	Mid-High	LTE Band 41	20	17.20	15.80	-0.01	0	Ant 3	P3K2L17CM6	QPSK	1	99	0 mm	top	1:1.58	0.592	1.380	0.817	0.195	0.269	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	17.20	16.15	0.11	0	Ant 3	P3K2L17CM6	QPSK	1	99	0 mm	top	1:1.58	0.609	1.274	0.776	0.200	0.255	
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	LTE Band 41	20	17.20	15.78	-0.01	0	Ant 3	P3K2L17CM6	QPSK	50	25	0 mm	top	1:1.58	0.557	1.387	0.773	0.192	0.266	
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	LTE Band 41	20	17.20	15.82	0.02	0	Ant 3	P3K2L17CM6	QPSK	50	25	0 mm	top	1:1.58	0.609	1.374	0.837	0.205	0.282	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	17.20	15.81	-0.02	0	Ant 3	P3K2L17CM6	QPSK	50	25	0 mm	top	1:1.58	0.656	1.377	0.903	0.219	0.302	
1 CC Uplink - Power Class 3	N/A	2636.50	41055	Mid-High	LTE Band 41	20	17.20	15.38	-0.02	0	Ant 3	P3K2L17CM6	QPSK	50	50	0 mm	top	1:1.58	0.596	1.521	0.907	0.197	0.300	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	17.20	16.10	0.03	0	Ant 3	P3K2L17CM6	QPSK	50	50	0 mm	top	1:1.58	0.617	1.288	0.795	0.201	0.259	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	17.20	16.05	-0.03	0	Ant 3	P3K2L17CM6	QPSK	100	0	0 mm	top	1:1.58	0.685	1.303	0.893	0.223	0.291	
1 CC Uplink - Power Class 2	N/A	2636.50	41055	Mid-High	LTE Band 41	20	18.80	17.78	0.00	0	Ant 3	P3K2L17CM6	QPSK	50	50	0 mm	top	1:2.31	0.729	1.265	0.922	0.246	0.311	
2 CC Uplink - Power Class 3	PCC	2636.50	41055	Mid-High	LTE Band 41	20	17.20	15.91	-0.01	0	Ant 3	P3K2L17CM6	QPSK	50	50	0 mm	top	1:1.58	0.662	1.346	0.891	0.219	0.295	
2 CC Uplink - Power Class 3	SCC	2656.30	41253	Mid-High	LTE Band 41	20								50	0									
2 CC Uplink - Power Class 2	PCC	2636.50	41055	Mid-High	LTE Band 41	20	18.80	17.73	0.02	0	Ant 3	P3K2L17CM6	QPSK	50	50	0 mm	top	1:2.31	0.708	1.279	0.906	0.235	0.301	
2 CC Uplink - Power Class 2	SCC	2656.30	41253	Mid-High	LTE Band 41	20								50	0									
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	17.20	16.15	0.01	0	Ant 3	P3K2L17CM6	QPSK	1	99	0 mm	bottom	1:1.58	0.003	1.274	0.004	0.000	0.000	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	17.20	16.10	0.02	0	Ant 3	P3K2L17CM6	QPSK	50	50	0 mm	bottom	1:1.58	0.003	1.288	0.004	0.000	0.000	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	17.20	16.15	-0.03	0	Ant 3	P3K2L17CM6	QPSK	1	99	0 mm	right	1:1.58	0.229	1.274	0.292	0.078	0.099	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	17.20	16.10	-0.02	0	Ant 3	P3K2L17CM6	QPSK	50	50	0 mm	right	1:1.58	0.224	1.288	0.289	0.076	0.098	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	17.20	16.15	0.08	0	Ant 3	P3K2L17CM6	QPSK	1	99	0 mm	left	1:1.58	0.013	1.274	0.017	0.004	0.005	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	17.20	16.10	0.06	0	Ant 3	P3K2L17CM6	QPSK	50	50	0 mm	left	1:1.58	0.010	1.288	0.013	0.003	0.004	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population													Body 1.6 W/kg (mW/g) averaged over 1 gram											

Table 10-42
LTE Band 41 Ant 4b Body SAR

MEASUREMENT RESULTS																														
1 CC Uplink | 2 CC Uplink	Component Carrier	FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g) (W/kg)	Scaling Factor	Reported SAR (1g) (W/kg)	SAR (10g) (W/kg)	Reported SAR (10g) (W/kg)	Plot #
		MHz	Ch.																						
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	LTE Band 41	20	14.80	13.43	0.00	0	Ant 4b	F70633NVTK	QPSK	1	50	0 mm	back	1:1.58	0.429	1.371	0.588	0.166	0.228	
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	LTE Band 41	20	14.80	13.51	0.01	0	Ant 4b	F70633NVTK	QPSK	50	25	0 mm	back	1:1.58	0.444	1.346	0.598	0.170	0.229	
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	LTE Band 41	20	14.80	13.43	-0.01	0	Ant 4b	F70633NVTK	QPSK	1	50	0 mm	top	1:1.58	0.559	1.371	0.766	0.189	0.259	
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	LTE Band 41	20	14.80	13.37	0.03	0	Ant 4b	F70633NVTK	QPSK	1	50	0 mm	top	1:1.58	0.575	1.390	0.799	0.191	0.265	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	14.80	13.23	0.00	0	Ant 4b	F70633NVTK	QPSK	1	50	0 mm	top	1:1.58	0.569	1.435	0.817	0.188	0.270	
1 CC Uplink - Power Class 3	N/A	2636.50	41055	Mid-High	LTE Band 41	20	14.80	13.07	-0.03	0	Ant 4b	F70633NVTK	QPSK	1	0	0 mm	top	1:1.58	0.586	1.489	0.873	0.192	0.286	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	14.80	13.17	0.05	0	Ant 4b	F70633NVTK	QPSK	1	50	0 mm	top	1:1.58	0.613	1.455	0.892	0.200	0.291	
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	LTE Band 41	20	14.80	13.51	0.04	0	Ant 4b	F70633NVTK	QPSK	50	25	0 mm	top	1:1.58	0.587	1.346	0.790	0.199	0.268	
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	LTE Band 41	20	14.80	13.38	-0.01	0	Ant 4b	F70633NVTK	QPSK	50	25	0 mm	top	1:1.58	0.594	1.387	0.824	0.196	0.272	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	14.80	13.27	-0.03	0	Ant 4b	F70633NVTK	QPSK	50	25	0 mm	top	1:1.58	0.582	1.422	0.828	0.192	0.273	
1 CC Uplink - Power Class 3	N/A	2636.50	41055	Mid-High	LTE Band 41	20	14.80	13.17	0.01	0	Ant 4b	F70633NVTK	QPSK	50	25	0 mm	top	1:1.58	0.593	1.455	0.863	0.193	0.281	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	14.80	13.16	-0.06	0	Ant 4b	F70633NVTK	QPSK	50	0	0 mm	top	1:1.58	0.671	1.459	0.979	0.223	0.325	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	14.80	13.40	-0.03	0	Ant 4b	F70633NVTK	QPSK	100	0	0 mm	top	1:1.58	0.579	1.380	0.799	0.191	0.264	
1 CC Uplink - Power Class 2	N/A	2680.00	41490	High	LTE Band 41	20	16.40	15.19	-0.03	0	Ant 4b	F70633NVTK	QPSK	50	0	0 mm	top	1:2.31	0.694	1.321	0.917	0.229	0.303	
2 CC Uplink - Power Class 3	PCC	2680.00	41490	High	LTE Band 41	20	14.80	13.30	-0.01	0	Ant 4b	F70633NVTK	QPSK	50	0	0 mm	top	1:1.58	0.666	1.413	0.941	0.218	0.308	
2 CC Uplink - Power Class 3	SCC	2660.20	41292	High	LTE Band 41	20								50	50									
2 CC Uplink - Power Class 2	PCC	2680.00	41490	High	LTE Band 41	20	16.40	15.47	-0.02	0	Ant 4b	F70633NVTK	QPSK	50	0	0 mm	top	1:2.31	0.741	1.239	0.918	0.245	0.304	
2 CC Uplink - Power Class 2	SCC	2660.20	41292	High	LTE Band 41	20								50	50									
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	LTE Band 41	20	14.80	13.43	0.06	0	Ant 4b	F70633NVTK	QPSK	1	50	0 mm	bottom	1:1.58	0.000	1.371	0.000	0.000	0.000	
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	LTE Band 41	20	14.80	13.51	0.03	0	Ant 4b	F70633NVTK	QPSK	50	25	0 mm	bottom	1:1.58	0.000	1.346	0.000	0.000	0.000	
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	LTE Band 41	20	14.80	13.43	-0.09	0	Ant 4b	F70633NVTK	QPSK	1	50	0 mm	right	1:1.58	0.021	1.371	0.029	0.009	0.012	
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	LTE Band 41	20	14.80	13.51	-0.03	0	Ant 4b	F70633NVTK	QPSK	50	25	0 mm	right	1:1.58	0.019	1.346	0.026	0.006	0.008	
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	LTE Band 41	20	14.80	13.43	-0.16	0	Ant 4b	F70633NVTK	QPSK	1	50	0 mm	left	1:1.58	0.034	1.371	0.047	0.013	0.018	
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	LTE Band 41	20	14.80	13.51	-0.13	0	Ant 4b	F70633NVTK	QPSK	50	25	0 mm	left	1:1.58	0.033	1.346	0.044	0.012	0.016	
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 10-43
LTE Band 48 Ant 1 Body SAR

MEASUREMENT RESULTS																														
1 CC Uplink | 2 CC Uplink	Component Carrier	FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g) (W/kg)	Scaling Factor	Reported SAR (1g) (W/kg)	SAR (10g) (W/kg)	Reported SAR (10g) (W/kg)	Plot #
		MHz	Ch.																						
1 CC Uplink	N/A	3560.00	55340	Low	LTE Band 48	20	13.50	12.84	-0.20	0	Ant 1	QLW4563WXL	QPSK	1	99	0 mm	back	1:1	0.509	1.164	0.592	0.119	0.139	
1 CC Uplink	N/A	3603.30	55773	Low-Mid	LTE Band 48	20	13.50	12.86	0.08	0	Ant 1	QLW4563WXL	QPSK	1	50	0 mm	back	1:1	0.507	1.159	0.588	0.119	0.138	
1 CC Uplink	N/A	3646.70	56207	Mid-High	LTE Band 48	20	13.50	12.84	-0.15	0	Ant 1	QLW4563WXL	QPSK	1	99	0 mm	back	1:1	0.512	1.164	0.596	0.118	0.137	
1 CC Uplink	N/A	3690.00	56640	High	LTE Band 48	20	13.50	13.14	-0.07	0	Ant 1	QLW4563WXL	QPSK	1	50	0 mm	back	1:1	0.492	1.086	0.534	0.113	0.123	
1 CC Uplink	N/A	3560.00	55340	Low	LTE Band 48	20	13.50	12.95	-0.14	0	Ant 1	QLW4563WXL	QPSK	50	50	0 mm	back	1:1	0.518	1.135	0.588	0.121	0.137	
1 CC Uplink	N/A	3603.30	55773	Low-Mid	LTE Band 48	20	13.50	12.87	-0.05	0	Ant 1	QLW4563WXL	QPSK	50	25	0 mm	back	1:1	0.525	1.156	0.607	0.123	0.142	
1 CC Uplink	N/A	3603.30	55773	Low-Mid	LTE Band 48	20	13.50	12.85	-0.04	0	Ant 1	QLW4563WXL	QPSK	50	50	0 mm	back	1:1	0.484	1.161	0.562	0.159	0.185	
1 CC Uplink	N/A	3646.70	56207	Mid-High	LTE Band 48	20	13.50	13.00	-0.14	0	Ant 1	QLW4563WXL	QPSK	50	50	0 mm	back	1:1	0.521	1.122	0.585	0.120	0.135	
1 CC Uplink	N/A	3690.00	56640	High	LTE Band 48	20	13.50	13.21	0.01	0	Ant 1	QLW4563WXL	QPSK	50	50	0 mm	back	1:1	0.504	1.069	0.539	0.116	0.124	
1 CC Uplink	N/A	3690.00	56640	High	LTE Band 48	20	13.50	13.13	-0.11	0	Ant 1	QLW4563WXL	QPSK	100	0	0 mm	back	1:1	0.532	1.089	0.579	0.123	0.134	
2 CC Uplink	PCC	3603.30	55773	Low-Mid	LTE Band 48	20	13.50	13.25	-0.02	0	Ant 1	QLW4563WXL	QPSK	50	0	0 mm	back	1:1	0.527	1.059	0.558	0.125	0.132	
2 CC Uplink	SCC	3623.10	55575	Low-Mid	LTE Band 48	20								50	50									
1 CC Uplink	N/A	3690.00	56640	High	LTE Band 48	20	13.50	13.14	0.08	0	Ant 1	QLW4563WXL	QPSK	1	50	0 mm	top	1:1	0.000	1.086	0.000	0.000	0.000	
1 CC Uplink	N/A	3690.00	56640	High	LTE Band 48	20	13.50	13.21	0.15	0	Ant 1	QLW4563WXL	QPSK	50	50	0 mm	top	1:1	0.000	1.069	0.000	0.000	0.000	
1 CC Uplink	N/A	3690.00	56640	High	LTE Band 48	20	13.50	13.14	-0.10	0	Ant 1	QLW4563WXL	QPSK	1	50	0 mm	bottom	1:1	0.368	1.086	0.400	0.097	0.105	
1 CC Uplink	N/A	3690.00	56640	High	LTE Band 48	20	13.50	13.21	0.05	0	Ant 1	QLW4563WXL	QPSK	50	50	0 mm	bottom	1:1	0.370	1.069	0.396	0.098	0.105	
1 CC Uplink	N/A	3690.00	56640	High	LTE Band 48	20	13.50	13.14	-0.09	0	Ant 1	QLW4563WXL	QPSK	1	50	0 mm	right	1:1	0.029	1.086	0.031	0.007	0.008	
1 CC Uplink	N/A	3690.00	56640	High	LTE Band 48	20	13.50	13.21	0.01	0	Ant 1	QLW4563WXL	QPSK	50	50	0 mm	right	1:1	0.024	1.069	0.026	0.007	0.007	
1 CC Uplink	N/A	3690.00	56640	High	LTE Band 48	20	13.50	13.14	0.01	0	Ant 1	QLW4563WXL	QPSK	1	50	0 mm	left	1:1	0.220	1.086	0.239	0.058	0.063	
1 CC Uplink	N/A	3690.00	56640	High	LTE Band 48	20	13.50	13.21	0.04	0	Ant 1	QLW4563WXL	QPSK	50	50	0 mm	left	1:1	0.226	1.069	0.242	0.060	0.064	
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 10-44
LTE Band 48 Ant 2a Body SAR

MEASUREMENT RESULTS																												
1 CC Uplink | 2 CC Uplink	Component Carrier	FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
		MHz	Ch.																(W/kg)		(W/kg)	(W/kg)	(W/kg)	
1 CC Uplink	N/A	3560.00	55340	Low	LTE Band 48	20	13.50	12.15	-0.05	0	Ant 2a	QLW4563WXL	QPSK	1	50	0 mm	back	1:1	0.694	1.365	0.947	0.206	0.281	A15
1 CC Uplink	N/A	3560.00	55340	Low	LTE Band 48	20	13.50	12.12	-0.10	0	Ant 2a	QLW4563WXL	QPSK	1	99	0 mm	back	1:1	0.650	1.374	0.893	0.197	0.271	
1 CC Uplink	N/A	3603.30	55773	Low-Mid	LTE Band 48	20	13.50	12.28	0.05	0	Ant 2a	QLW4563WXL	QPSK	1	50	0 mm	back	1:1	0.636	1.324	0.842	0.189	0.250	
1 CC Uplink	N/A	3646.70	56207	Mid-High	LTE Band 48	20	13.50	12.35	-0.01	0	Ant 2a	QLW4563WXL	QPSK	1	50	0 mm	back	1:1	0.633	1.303	0.825	0.187	0.244	
1 CC Uplink	N/A	3690.00	56640	High	LTE Band 48	20	13.50	12.60	0.03	0	Ant 2a	QLW4563WXL	QPSK	1	50	0 mm	back	1:1	0.652	1.230	0.802	0.190	0.234	
1 CC Uplink	N/A	3560.00	55340	Low	LTE Band 48	20	13.50	12.52	0.03	0	Ant 2a	QLW4563WXL	QPSK	50	25	0 mm	back	1:1	0.663	1.253	0.831	0.203	0.254	
1 CC Uplink	N/A	3603.30	55773	Low-Mid	LTE Band 48	20	13.50	12.38	-0.04	0	Ant 2a	QLW4563WXL	QPSK	50	25	0 mm	back	1:1	0.649	1.294	0.840	0.192	0.248	
1 CC Uplink	N/A	3646.70	56207	Mid-High	LTE Band 48	20	13.50	12.44	0.00	0	Ant 2a	QLW4563WXL	QPSK	50	25	0 mm	back	1:1	0.650	1.276	0.829	0.192	0.245	
1 CC Uplink	N/A	3690.00	56640	High	LTE Band 48	20	13.50	12.61	0.04	0	Ant 2a	QLW4563WXL	QPSK	50	25	0 mm	back	1:1	0.667	1.227	0.818	0.195	0.239	
1 CC Uplink	N/A	3690.00	56640	High	LTE Band 48	20	13.50	12.58	-0.13	0	Ant 2a	QLW4563WXL	QPSK	100	0	0 mm	back	1:1	0.632	1.236	0.781	0.186	0.230	
2 CC Uplink	PCC	3560.00	55340	Low	LTE Band 48	20	13.50	12.08	0.03	0	Ant 2a	QLW4563WXL	QPSK	1	99	0 mm	back	1:1	0.620	1.387	0.860	0.185	0.257	
2 CC Uplink	SCC	3579.80	55538	Low	LTE Band 48	20								1	0									
1 CC Uplink	N/A	3690.00	56640	High	LTE Band 48	20	13.50	12.60	0.03	0	Ant 2a	QLW4563WXL	QPSK	1	50	0 mm	top	1:1	0.009	1.230	0.011	0.002	0.002	
1 CC Uplink	N/A	3690.00	56640	High	LTE Band 48	20	13.50	12.61	0.20	0	Ant 2a	QLW4563WXL	QPSK	50	25	0 mm	top	1:1	0.008	1.227	0.010	0.001	0.001	
1 CC Uplink	N/A	3690.00	56640	High	LTE Band 48	20	13.50	12.60	0.04	0	Ant 2a	QLW4563WXL	QPSK	1	50	0 mm	bottom	1:1	0.181	1.230	0.223	0.049	0.060	
1 CC Uplink	N/A	3690.00	56640	High	LTE Band 48	20	13.50	12.61	0.00	0	Ant 2a	QLW4563WXL	QPSK	50	25	0 mm	bottom	1:1	0.188	1.227	0.231	0.051	0.063	
1 CC Uplink	N/A	3560.00	55340	Low	LTE Band 48	20	13.50	12.15	-0.13	0	Ant 2a	QLW4563WXL	QPSK	1	50	0 mm	right	1:1	0.646	1.365	0.882	0.170	0.232	
1 CC Uplink	N/A	3603.30	55773	Low-Mid	LTE Band 48	20	13.50	12.28	0.00	0	Ant 2a	QLW4563WXL	QPSK	1	50	0 mm	right	1:1	0.647	1.324	0.857	0.170	0.225	
1 CC Uplink	N/A	3646.70	56207	Mid-High	LTE Band 48	20	13.50	12.35	-0.14	0	Ant 2a	QLW4563WXL	QPSK	1	50	0 mm	right	1:1	0.629	1.303	0.820	0.165	0.215	
1 CC Uplink	N/A	3690.00	56640	High	LTE Band 48	20	13.50	12.60	-0.06	0	Ant 2a	QLW4563WXL	QPSK	1	50	0 mm	right	1:1	0.595	1.230	0.732	0.159	0.196	
1 CC Uplink	N/A	3560.00	55340	Low	LTE Band 48	20	13.50	12.52	-0.09	0	Ant 2a	QLW4563WXL	QPSK	50	25	0 mm	right	1:1	0.660	1.253	0.827	0.173	0.217	
1 CC Uplink	N/A	3603.30	55773	Low-Mid	LTE Band 48	20	13.50	12.38	-0.02	0	Ant 2a	QLW4563WXL	QPSK	50	25	0 mm	right	1:1	0.599	1.294	0.775	0.156	0.202	
1 CC Uplink	N/A	3646.70	56207	Mid-High	LTE Band 48	20	13.50	12.44	-0.02	0	Ant 2a	QLW4563WXL	QPSK	50	25	0 mm	right	1:1	0.656	1.276	0.837	0.173	0.221	
1 CC Uplink	N/A	3690.00	56640	High	LTE Band 48	20	13.50	12.61	0.20	0	Ant 2a	QLW4563WXL	QPSK	50	25	0 mm	right	1:1	0.615	1.227	0.755	0.165	0.202	
1 CC Uplink	N/A	3690.00	56640	High	LTE Band 48	20	13.50	12.58	-0.07	0	Ant 2a	QLW4563WXL	QPSK	100	0	0 mm	right	1:1	0.619	1.236	0.765	0.158	0.195	
1 CC Uplink	N/A	3690.00	56640	High	LTE Band 48	20	13.50	12.60	0.08	0	Ant 2a	QLW4563WXL	QPSK	1	50	0 mm	left	1:1	0.002	1.230	0.002	0.000	0.000	
1 CC Uplink	N/A	3690.00	56640	High	LTE Band 48	20	13.50	12.61	0.20	0	Ant 2a	QLW4563WXL	QPSK	50	25	0 mm	left	1:1	0.002	1.227	0.002	0.000	0.000	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																			Body 1.6 W/kg (mW/g) averaged over 1 gram					

Table 10-45
LTE Band 48 Ant 3 Body SAR

MEASUREMENT RESULTS																												
1 CC Uplink | 2 CC Uplink	Component Carrier	FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
		MHz	Ch.																(W/kg)		(W/kg)	(W/kg)	(W/kg)	
1 CC Uplink	N/A	3646.70	56207	Mid-High	LTE Band 48	20	14.20	13.52	0.05	0	Ant 3	QLW4563WXL	QPSK	1	50	0 mm	back	1:1	0.433	1.169	0.506	0.117	0.137	
1 CC Uplink	N/A	3646.70	56207	Mid-High	LTE Band 48	20	14.20	13.58	0.01	0	Ant 3	QLW4563WXL	QPSK	50	25	0 mm	back	1:1	0.438	1.153	0.505	0.119	0.137	
1 CC Uplink	N/A	3560.00	55340	Low	LTE Band 48	20	14.20	13.47	0.02	0	Ant 3	QLW4563WXL	QPSK	1	50	0 mm	top	1:1	0.473	1.183	0.560	0.132	0.156	
1 CC Uplink	N/A	3603.30	55773	Low-Mid	LTE Band 48	20	14.20	13.49	0.01	0	Ant 3	QLW4563WXL	QPSK	1	50	0 mm	top	1:1	0.511	1.178	0.602	0.141	0.166	
1 CC Uplink	N/A	3646.70	56207	Mid-High	LTE Band 48	20	14.20	13.52	0.00	0	Ant 3	QLW4563WXL	QPSK	1	50	0 mm	top	1:1	0.555	1.169	0.649	0.154	0.180	
1 CC Uplink	N/A	3690.00	56640	High	LTE Band 48	20	14.20	13.48	0.01	0	Ant 3	QLW4563WXL	QPSK	1	50	0 mm	top	1:1	0.554	1.180	0.654	0.155	0.183	
1 CC Uplink	N/A	3560.00	55340	Low	LTE Band 48	20	14.20	13.52	-0.01	0	Ant 3	QLW4563WXL	QPSK	50	50	0 mm	top	1:1	0.490	1.169	0.573	0.136	0.159	
1 CC Uplink	N/A	3603.30	55773	Low-Mid	LTE Band 48	20	14.20	13.57	-0.01	0	Ant 3	QLW4563WXL	QPSK	50	50	0 mm	top	1:1	0.507	1.156	0.586	0.143	0.165	
1 CC Uplink	N/A	3646.70	56207	Mid-High	LTE Band 48	20	14.20	13.58	-0.02	0	Ant 3	QLW4563WXL	QPSK	50	25	0 mm	top	1:1	0.565	1.153	0.651	0.156	0.180	
1 CC Uplink	N/A	3690.00	56640	High	LTE Band 48	20	14.20	13.46	0.02	0	Ant 3	QLW4563WXL	QPSK	50	0	0 mm	top	1:1	0.588	1.186	0.697	0.154	0.183	
1 CC Uplink	N/A	3690.00	56640	High	LTE Band 48	20	14.20	13.54	0.03	0	Ant 3	QLW4563WXL	QPSK	50	25	0 mm	top	1:1	0.566	1.164	0.659	0.158	0.184	
1 CC Uplink	N/A	3646.70	56207	Mid-High	LTE Band 48	20	14.20	13.50	0.02	0	Ant 3	QLW4563WXL	QPSK	100	0	0 mm	top	1:1	0.539	1.175	0.633	0.152	0.179	
2 CC Uplink	PCC	3690.00	56640	High	LTE Band 48	20	14.20	13.37	-0.05	0	Ant 3	QLW4563WXL	QPSK	50	0	0 mm	top	1:1	0.577	1.211	0.699	0.157	0.190	
2 CC Uplink	SCC	3670.20	56442	High	LTE Band 48	20								50	50									
1 CC Uplink	N/A	3646.70	56207	Mid-High	LTE Band 48	20	14.20	13.52	0.05	0	Ant 3	QLW4563WXL	QPSK	1	50	0 mm	bottom	1:1	0.006	1.169	0.007	0.001	0.001	
1 CC Uplink	N/A	3646.70	56207	Mid-High	LTE Band 48	20	14.20	13.58	0.20	0	Ant 3	QLW4563WXL	QPSK	50	25	0 mm	bottom	1:1	0.002	1.153	0.002	0.000	0.000	
1 CC Uplink	N/A	3646.70	56207	Mid-High	LTE Band 48	20	14.20	13.52	-0.18	0	Ant 3	QLW4563WXL	QPSK	1	50	0 mm	right	1:1	0.023	1.169	0.027	0.006	0.007	
1 CC Uplink	N/A	3646.70	56207	Mid-High	LTE Band 48	20	14.20	13.58	0.01	0	Ant 3	QLW4563WXL	QPSK	50	25	0 mm	right	1:1	0.029	1.153	0.033	0.010	0.012	
1 CC Uplink	N/A	3646.70	56207	Mid-High	LTE Band 48	20	14.20	13.52	0.05	0	Ant 3	QLW4563WXL	QPSK	1	50	0 mm	left	1:1	0.014	1.169	0.016	0.003	0.004	
1 CC Uplink	N/A	3646.70	56207	Mid-High	LTE Band 48	20	14.20	13.58	-0.19	0	Ant 3	QLW4563WXL	QPSK	50	25	0 mm	left	1:1	0.015	1.153	0.017	0.003	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					

Table 10-46
LTE Band 48 Ant 4b Body SAR

MEASUREMENT RESULTS																												
1 CC Uplink | 2 CC Uplink	Component Carrier	FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
		MHz	Ch.																(W/kg)		(W/kg)	(W/kg)	(W/kg)	
1 CC Uplink	N/A	3690.00	56640	High	LTE Band 48	20	13.30	12.33	-0.09	0	Ant 4b	QLW4563WXL	QPSK	1	50	0 mm	back	1:1	0.419	1.250	0.524	0.115	0.144	
1 CC Uplink	N/A	3690.00	56640	High	LTE Band 48	20	13.30	12.41	-0.08	0	Ant 4b	QLW4563WXL	QPSK	50	50	0 mm	back	1:1	0.420	1.227	0.515	0.116	0.142	
1 CC Uplink	N/A	3560.00	55340	Low	LTE Band 48	20	13.30	12.21	0.00	0	Ant 4b	QLW4563WXL	QPSK	1	99	0 mm	top	1:1	0.495	1.285	0.636	0.137	0.176	
1 CC Uplink	N/A	3603.30	55773	Low-Mid	LTE Band 48	20	13.30	12.19	0.01	0	Ant 4b	QLW4563WXL	QPSK	1	50	0 mm	top	1:1	0.462	1.291	0.596	0.130	0.168	
1 CC Uplink	N/A	3646.70	56207	Mid-High	LTE Band 48	20	13.30	12.29	0.05	0	Ant 4b	QLW4563WXL	QPSK	1	50	0 mm	top	1:1	0.487	1.262	0.615	0.137	0.173	
1 CC Uplink	N/A	3690.00	56640	High	LTE Band 48	20	13.30	12.33	-0.01	0	Ant 4b	QLW4563WXL	QPSK	1	50	0 mm	top	1:1	0.583	1.250	0.729	0.164	0.205	
1 CC Uplink	N/A	3560.00	55340	Low	LTE Band 48	20	13.30	12.24	0.09	0	Ant 4b	QLW4563WXL	QPSK	50	50	0 mm	top	1:1	0.505	1.276	0.644	0.141	0.180	
1 CC Uplink	N/A	3603.30	55773	Low-Mid	LTE Band 48	20	13.30	12.25	-0.07	0	Ant 4b	QLW4563WXL	QPSK	50	0	0 mm	top	1:1	0.469	1.274	0.598	0.132	0.168	
1 CC Uplink	N/A	3646.70	56207	Mid-High	LTE Band 48	20	13.30	12.39	0.01	0	Ant 4b	QLW4563WXL	QPSK	50	50	0 mm	top	1:1	0.496	1.233	0.612	0.139	0.171	
1 CC Uplink	N/A	3690.00	56640	High	LTE Band 48	20	13.30	12.34	-0.01	0	Ant 4b	QLW4563WXL	QPSK	50	0	0 mm	top	1:1	0.603	1.247	0.752	0.167	0.208	
1 CC Uplink	N/A	3690.00	56640	High	LTE Band 48	20	13.30	12.41	0.01	0	Ant 4b	QLW4563WXL	QPSK	50	50	0 mm	top	1:1	0.694	1.227	0.852	0.196	0.240	A15
1 CC Uplink	N/A	3690.00	56640	High	LTE Band 48	20	13.30	12.31	-0.17	0	Ant 4b	QLW4563WXL	QPSK	100	0	0 mm	top	1:1	0.529	1.256	0.664	0.147	0.185	
2 CC Uplink	PCC	3690.00	56640	High	LTE Band 48	20	13.30	12.43	-0.10	0	Ant 4b	QLW4563WXL	QPSK	50	0	0 mm	top	1:1	0.614	1.222	0.773	0.167	0.210	
2 CC Uplink	SCC	3670.20	56442	High	LTE Band 48	20								50	50									
1 CC Uplink	N/A	3690.00	56640	High	LTE Band 48	20	13.30	12.33	0.06	0	Ant 4b	QLW4563WXL	QPSK	1	50	0 mm	bottom	1:1	0.000	1.250	0.000	0.000	0.000	
1 CC Uplink	N/A	3690.00	56640	High	LTE Band 48	20	13.30	12.41	0.02	0	Ant 4b	QLW4563WXL	QPSK	50	50	0 mm	bottom	1:1	0.000	1.227	0.000	0.000	0.000	
1 CC Uplink	N/A	3690.00	56640	High	LTE Band 48	20	13.30	12.33	0.07	0	Ant 4b	QLW4563WXL	QPSK	1	50	0 mm	right	1:1	0.008	1.250	0.010	0.002	0.003	
1 CC Uplink	N/A	3690.00	56640	High	LTE Band 48	20	13.30	12.41	0.03	0	Ant 4b	QLW4563WXL	QPSK	50	50	0 mm	right	1:1	0.009	1.227	0.011	0.002	0.002	
1 CC Uplink	N/A	3690.00	56640	High	LTE Band 48	20	13.30	12.33	0.05	0	Ant 4b	QLW4563WXL	QPSK	1	50	0 mm	left	1:1	0.013	1.250	0.016	0.003	0.004	
1 CC Uplink	N/A	3690.00	56640	High	LTE Band 48	20	13.30	12.41	0.09	0	Ant 4b	QLW4563WXL	QPSK	50	50	0 mm	left	1:1	0.014	1.227	0.017	0.003	0.004	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																			Body 1.6 W/kg (mW/g) averaged over 1 gram					

Table 10-47
NR Band n71 Ant 1 Body SAR

MEASUREMENT RESULTS																							
FREQUENCY		Side	Spacing	Mode	Antenna Config	Serial Number	Bandwidth [MHz]	Waveform	Modulation	RB Size	RB Offset	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.															(W/kg)		(W/kg)	(W/kg)	(W/kg)	
680.50	136100	Mid	back	0 mm	NR Band n71	Ant 1	P3K2L17CM6	20	DFT-S-OFDM	QPSK	1	53	21.00	20.84	0.00	1:1	0.459	1.038	0.476	0.245	0.254	
680.50	136100	Mid	back	0 mm	NR Band n71	Ant 1	P3K2L17CM6	20	DFT-S-OFDM	QPSK	50	28	21.00	20.41	-0.02	1:1	0.667	1.146	0.764	0.328	0.376	
680.50	136100	Mid	back	0 mm	NR Band n71	Ant 1	P3K2L17CM6	20	CP-OFDM	QPSK	1	1	21.00	20.30	0.01	1:1	0.762	1.175	0.895	0.359	0.422	A16
680.50	136100	Mid	top	0 mm	NR Band n71	Ant 1	P3K2L17CM6	20	DFT-S-OFDM	QPSK	1	53	21.00	20.84	-0.03	1:1	0.027	1.038	0.028	0.012	0.012	
680.50	136100	Mid	top	0 mm	NR Band n71	Ant 1	P3K2L17CM6	20	DFT-S-OFDM	QPSK	50	28	21.00	20.41	-0.03	1:1	0.025	1.146	0.029	0.011	0.013	
680.50	136100	Mid	bottom	0 mm	NR Band n71	Ant 1	P3K2L17CM6	20	DFT-S-OFDM	QPSK	1	53	21.00	20.84	-0.05	1:1	0.588	1.038	0.610	0.213	0.221	
680.50	136100	Mid	bottom	0 mm	NR Band n71	Ant 1	P3K2L17CM6	20	DFT-S-OFDM	QPSK	50	28	21.00	20.41	-0.06	1:1	0.555	1.146	0.636	0.205	0.235	
680.50	136100	Mid	right	0 mm	NR Band n71	Ant 1	P3K2L17CM6	20	DFT-S-OFDM	QPSK	1	53	21.00	20.84	-0.05	1:1	0.053	1.038	0.055	0.022	0.023	
680.50	136100	Mid	right	0 mm	NR Band n71	Ant 1	P3K2L17CM6	20	DFT-S-OFDM	QPSK	50	28	21.00	20.41	0.03	1:1	0.057	1.146	0.065	0.024	0.028	
680.50	136100	Mid	left	0 mm	NR Band n71	Ant 1	P3K2L17CM6	20	DFT-S-OFDM	QPSK	1	53	21.00	20.84	0.00	1:1	0.489	1.038	0.508	0.184	0.191	
680.50	136100	Mid	left	0 mm	NR Band n71	Ant 1	P3K2L17CM6	20	DFT-S-OFDM	QPSK	50	28	21.00	20.41	0.01	1:1	0.491	1.146	0.563	0.183	0.210	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population									Body 1.6 W/kg (W/Kg) averaged over 1 gram													

Table 10-48
NR Band n71 Ant 3 Body SAR

MEASUREMENT RESULTS																					
FREQUENCY		Side	Spacing	Mode	Antenna Config	Serial Number	Bandwidth [MHz]	Waveform	Modulation	RB Size	RB Offset	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.															(W/kg)		(W/kg)	(W/kg)	(W/kg)	
680.50	136100	Mid	back	0 mm	NR Band n71	Ant 3	CWFD7H2PP6	20	DFT-S-OFDM	QPSK	1	1	21.50	19.82	-0.16	1:1	0.563	1.472	0.829	0.284	0.418	
680.50	136100	Mid	back	0 mm	NR Band n71	Ant 3	CWFD7H2PP6	20	DFT-S-OFDM	QPSK	50	0	21.50	19.72	-0.09	1:1	0.569	1.507	0.857	0.284	0.428	
680.50	136100	Mid	back	0 mm	NR Band n71	Ant 3	CWFD7H2PP6	20	DFT-S-OFDM	QPSK	100	0	21.50	19.55	0.00	1:1	0.539	1.567	0.845	0.270	0.423	
680.50	136100	Mid	top	0 mm	NR Band n71	Ant 3	CWFD7H2PP6	20	DFT-S-OFDM	QPSK	1	1	21.50	19.82	0.01	1:1	0.649	1.472	0.955	0.256	0.377	
680.50	136100	Mid	top	0 mm	NR Band n71	Ant 3	CWFD7H2PP6	20	DFT-S-OFDM	QPSK	50	0	21.50	19.72	-0.04	1:1	0.657	1.507	0.990	0.254	0.383	
680.50	136100	Mid	top	0 mm	NR Band n71	Ant 3	CWFD7H2PP6	20	DFT-S-OFDM	QPSK	100	0	21.50	19.55	-0.05	1:1	0.636	1.567	0.997	0.245	0.384	
680.50	136100	Mid	top	0 mm	NR Band n71	Ant 3	CWFD7H2PP6	20	CP-OFDM	QPSK	1	1	21.50	19.52	-0.01	1:1	0.569	1.578	0.898	0.246	0.388	
680.50	136100	Mid	bottom	0 mm	NR Band n71	Ant 3	CWFD7H2PP6	20	DFT-S-OFDM	QPSK	1	1	21.50	19.82	-0.03	1:1	0.021	1.472	0.031	0.008	0.012	
680.50	136100	Mid	bottom	0 mm	NR Band n71	Ant 3	CWFD7H2PP6	20	DFT-S-OFDM	QPSK	50	0	21.50	19.72	-0.10	1:1	0.020	1.507	0.030	0.008	0.012	
680.50	136100	Mid	right	0 mm	NR Band n71	Ant 3	CWFD7H2PP6	20	DFT-S-OFDM	QPSK	1	1	21.50	19.82	-0.14	1:1	0.272	1.472	0.400	0.105	0.155	
680.50	136100	Mid	right	0 mm	NR Band n71	Ant 3	CWFD7H2PP6	20	DFT-S-OFDM	QPSK	50	0	21.50	19.72	-0.04	1:1	0.272	1.507	0.410	0.105	0.158	
680.50	136100	Mid	left	0 mm	NR Band n71	Ant 3	CWFD7H2PP6	20	DFT-S-OFDM	QPSK	1	1	21.50	19.82	-0.03	1:1	0.038	1.472	0.056	0.015	0.022	
680.50	136100	Mid	left	0 mm	NR Band n71	Ant 3	CWFD7H2PP6	20	DFT-S-OFDM	QPSK	50	0	21.50	19.72	-0.07	1:1	0.039	1.507	0.059	0.015	0.023	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population									Body 1.6 W/kg (mW/g) averaged over 1 gram												

Table 10-49
NR Band n12 Ant 1 Body SAR

MEASUREMENT RESULTS																					
FREQUENCY		Side	Spacing	Mode	Antenna Config	Serial Number	Bandwidth [MHz]	Waveform	Modulation	RB Size	RB Offset	Maximum Allowed Power [dBm]	Conducted Power [dBm]	MPR [dB]	Power Drift [dB]	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.																(W/kg)		(W/kg)	(W/kg)	(W/kg)	
707.50	141500	Mid	back	0 mm	NR Band n12	Ant 1	P3K2L17CM6	15	DFT-S-OFDM	QPSK	1	1	20.50	18.82	0	-0.05	1:1	0.616	1.472	0.907	0.255	0.375	
707.50	141500	Mid	back	0 mm	NR Band n12	Ant 1	P3K2L17CM6	15	DFT-S-OFDM	QPSK	36	0	20.50	18.67	0	0.01	1:1	0.562	1.524	0.856	0.237	0.361	
707.50	141500	Mid	back	0 mm	NR Band n12	Ant 1	P3K2L17CM6	15	DFT-S-OFDM	QPSK	75	0	20.50	18.66	0	0.00	1:1	0.515	1.528	0.787	0.213	0.325	
707.50	141500	Mid	back	0 mm	NR Band n12	Ant 1	P3K2L17CM6	15	CP-OFDM	QPSK	1	1	20.50	18.78	0	-0.02	1:1	0.614	1.486	0.912	0.259	0.385	
707.50	141500	Mid	top	0 mm	NR Band n12	Ant 1	P3K2L17CM6	15	DFT-S-OFDM	QPSK	1	1	20.50	18.82	0	-0.13	1:1	0.012	1.472	0.018	0.006	0.009	
707.50	141500	Mid	top	0 mm	NR Band n12	Ant 1	P3K2L17CM6	15	DFT-S-OFDM	QPSK	36	0	20.50	18.67	0	0.18	1:1	0.015	1.524	0.023	0.006	0.009	
707.50	141500	Mid	bottom	0 mm	NR Band n12	Ant 1	P3K2L17CM6	15	DFT-S-OFDM	QPSK	1	1	20.50	18.82	0	-0.02	1:1	0.398	1.472	0.586	0.147	0.216	
707.50	141500	Mid	bottom	0 mm	NR Band n12	Ant 1	P3K2L17CM6	15	DFT-S-OFDM	QPSK	36	0	20.50	18.67	0	-0.01	1:1	0.373	1.524	0.568	0.142	0.216	
707.50	141500	Mid	right	0 mm	NR Band n12	Ant 1	P3K2L17CM6	15	DFT-S-OFDM	QPSK	1	1	20.50	18.82	0	-0.11	1:1	0.024	1.472	0.035	0.010	0.015	
707.50	141500	Mid	right	0 mm	NR Band n12	Ant 1	P3K2L17CM6	15	DFT-S-OFDM	QPSK	36	0	20.50	18.67	0	0.01	1:1	0.025	1.524	0.038	0.011	0.017	
707.50	141500	Mid	left	0 mm	NR Band n12	Ant 1	P3K2L17CM6	15	DFT-S-OFDM	QPSK	1	1	20.50	18.82	0	0.00	1:1	0.270	1.472	0.397	0.101	0.149	
707.50	141500	Mid	left	0 mm	NR Band n12	Ant 1	P3K2L17CM6	15	DFT-S-OFDM	QPSK	36	0	20.50	18.67	0	-0.02	1:1	0.275	1.524	0.419	0.102	0.155	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population									Body 1.6 W/kg (mW/g) averaged over 1 gram													

Table 10-50
NR Band n12 Ant 3 Body SAR

MEASUREMENT RESULTS																					
FREQUENCY		Side	Spacing	Mode	Antenna Config	Serial Number	Bandwidth [MHz]	Waveform	Modulation	RB Size	RB Offset	Maximum Allowed Power [dBm]	Conducted Power [dBm]	MPR [dB]	Power Drift [dB]	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.																(W/kg)		(W/kg)	(W/kg)	(W/kg)	
707.50	141500	Mid	back	0 mm	NR Band n12	Ant 3	P3K2L17CM6	15	DFT-S-OFDM	QPSK	1	1	19.80	18.56	0.00	0.00	1:1	0.697	1.330	0.927	0.339	0.451	A17
707.50	141500	Mid	back	0 mm	NR Band n12	Ant 3	P3K2L17CM6	15	DFT-S-OFDM	QPSK	36	0	19.80	18.52	0.00	-0.02	1:1	0.640	1.343	0.860	0.323	0.434	
707.50	141500	Mid	back	0 mm	NR Band n12	Ant 3	P3K2L17CM6	15	DFT-S-OFDM	QPSK	75	0	19.80	18.45	0.00	-0.04	1:1	0.691	1.365	0.943	0.339	0.463	
707.50	141500	Mid	back	0 mm	NR Band n12	Ant 3	P3K2L17CM6	15	CP-OFDM	QPSK	1	1	19.80	18.42	0.00	-0.03	1:1	0.626	1.374	0.860	0.310	0.426	
707.50	141500	Mid	top	0 mm	NR Band n12	Ant 3	P3K2L17CM6	15	DFT-S-OFDM	QPSK	1	1	19.80	18.56	0.00	0.03	1:1	0.572	1.330	0.761	0.225	0.299	
707.50	141500	Mid	top	0 mm	NR Band n12	Ant 3	P3K2L17CM6	15	DFT-S-OFDM	QPSK	36	0	19.80	18.52	0.00	-0.02	1:1	0.551	1.343	0.740	0.222	0.298	
707.50	141500	Mid	bottom	0 mm	NR Band n12	Ant 3	P3K2L17CM6	15	DFT-S-OFDM	QPSK	1	1	19.80	18.56	0.00	0.03	1:1	0.016	1.330	0.021	0.006	0.008	
707.50	141500	Mid	bottom	0 mm	NR Band n12	Ant 3	P3K2L17CM6	15	DFT-S-OFDM	QPSK	36	0	19.80	18.52	0.00	-0.05	1:1	0.016	1.343	0.021	0.006	0.008	
707.50	141500	Mid	right	0 mm	NR Band n12	Ant 3	P3K2L17CM6	15	DFT-S-OFDM	QPSK	1	1	19.80	18.56	0.00	-0.01	1:1	0.169	1.330	0.225	0.073	0.097	
707.50	141500	Mid	right	0 mm	NR Band n12	Ant 3	P3K2L17CM6	15	DFT-S-OFDM	QPSK	36	0	19.80	18.52	0.00	-0.05	1:1	0.163	1.343	0.219	0.071	0.095	
707.50	141500	Mid	left	0 mm	NR Band n12	Ant 3	P3K2L17CM6	15	DFT-S-OFDM	QPSK	1	1	19.80	18.56	0.00	-0.06	1:1	0.015	1.330	0.020	0.006	0.008	
707.50	141500	Mid	left	0 mm	NR Band n12	Ant 3	P3K2L17CM6	15	DFT-S-OFDM	QPSK	36	0	19.80	18.52	0.00	-0.10	1:1	0.026	1.343	0.035	0.010	0.013	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population									Body 1.6 W/kg (mW/g) averaged over 1 gram													

Table 10-51
NR Band n14 Ant 1 Body SAR

MEASUREMENT RESULTS																									
FREQUENCY		Side	Spacing	Mode	Antenna Config	Serial Number	Bandwidth [MHz]	Waveform	Modulation	RB Size	RB Offset	Maximum Allowed Power [dBm]	Conducted Power [dBm]	MPR [dB]	Power Drift [dB]	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.																(W/kg)		(W/kg)	(W/kg)	(W/kg)	
793.00	158600	Mid	back	0 mm	NR Band n14	Ant 1	NJ5X4097NF	10	DFT-S-OFDM	QPSK	1	26	21.00	19.56	0	0.00	1:1	0.657	1.393	0.915	0.267	0.372	
793.00	158600	Mid	back	0 mm	NR Band n14	Ant 1	NJ5X4097NF	10	DFT-S-OFDM	QPSK	25	14	21.00	19.50	0	-0.01	1:1	0.637	1.413	0.900	0.259	0.366	
793.00	158600	Mid	back	0 mm	NR Band n14	Ant 1	NJ5X4097NF	10	DFT-S-OFDM	QPSK	50	0	21.00	19.45	0	-0.05	1:1	0.627	1.429	0.896	0.251	0.359	
793.00	158600	Mid	back	0 mm	NR Band n14	Ant 1	NJ5X4097NF	10	CP-OFDM	QPSK	1	1	21.00	19.33	0	0.05	1:1	0.630	1.469	0.925	0.301	0.442	
793.00	158600	Mid	top	0 mm	NR Band n14	Ant 1	NJ5X4097NF	10	DFT-S-OFDM	QPSK	1	26	21.00	19.56	0	0.08	1:1	0.027	1.393	0.038	0.011	0.015	
793.00	158600	Mid	top	0 mm	NR Band n14	Ant 1	NJ5X4097NF	10	DFT-S-OFDM	QPSK	25	14	21.00	19.50	0	-0.02	1:1	0.028	1.413	0.040	0.011	0.016	
793.00	158600	Mid	bottom	0 mm	NR Band n14	Ant 1	NJ5X4097NF	10	DFT-S-OFDM	QPSK	1	26	21.00	19.56	0	-0.08	1:1	0.547	1.393	0.762	0.221	0.308	
793.00	158600	Mid	bottom	0 mm	NR Band n14	Ant 1	NJ5X4097NF	10	DFT-S-OFDM	QPSK	25	14	21.00	19.50	0	0.06	1:1	0.521	1.413	0.736	0.211	0.298	
793.00	158600	Mid	right	0 mm	NR Band n14	Ant 1	NJ5X4097NF	10	DFT-S-OFDM	QPSK	1	26	21.00	19.56	0	0.17	1:1	0.037	1.393	0.052	0.016	0.022	
793.00	158600	Mid	right	0 mm	NR Band n14	Ant 1	NJ5X4097NF	10	DFT-S-OFDM	QPSK	25	14	21.00	19.50	0	0.03	1:1	0.039	1.413	0.055	0.017	0.024	
793.00	158600	Mid	left	0 mm	NR Band n14	Ant 1	NJ5X4097NF	10	DFT-S-OFDM	QPSK	1	26	21.00	19.56	0	-0.04	1:1	0.448	1.393	0.624	0.176	0.245	
793.00	158600	Mid	left	0 mm	NR Band n14	Ant 1	NJ5X4097NF	10	DFT-S-OFDM	QPSK	25	14	21.00	19.50	0	0.00	1:1	0.447	1.413	0.632	0.172	0.243	
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
NR Band n14 Ant 3 Body SAR

MEASUREMENT RESULTS																									
FREQUENCY		Side	Spacing	Mode	Antenna Config	Serial Number	Bandwidth [MHz]	Waveform	Modulation	RB Size	RB Offset	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #				
MHz	Ch.															(W/kg)		(W/kg)	(W/kg)	(W/kg)					
793.00	158600	Mid	back	0 mm	NR Band n14	Ant 3	NJ5X4097NF	10	DFT-S-OFDM	QPSK	1	50	20.50	19.47	0.02	1:1	0.575	1.268	0.729	0.283	0.359				
793.00	158600	Mid	back	0 mm	NR Band n14	Ant 3	NJ5X4097NF	10	DFT-S-OFDM	QPSK	25	14	20.50	19.34	0.01	1:1	0.593	1.306	0.774	0.298	0.389				
793.00	158600	Mid	top	0 mm	NR Band n14	Ant 3	NJ5X4097NF	10	DFT-S-OFDM	QPSK	1	50	20.50	19.47	0.01	1:1	0.645	1.268	0.818	0.255	0.323				
793.00	158600	Mid	top	0 mm	NR Band n14	Ant 3	NJ5X4097NF	10	DFT-S-OFDM	QPSK	25	14	20.50	19.34	0.06	1:1	0.636	1.306	0.831	0.252	0.329				
793.00	158600	Mid	top	0 mm	NR Band n14	Ant 3	NJ5X4097NF	10	DFT-S-OFDM	QPSK	50	0	20.50	19.33	-0.01	1:1	0.645	1.309	0.844	0.255	0.334				
793.00	158600	Mid	top	0 mm	NR Band n14	Ant 3	NJ5X4097NF	10	CP-OFDM	QPSK	1	1	20.50	19.37	0.00	1:1	0.670	1.297	0.869	0.262	0.340	A18			
793.00	158600	Mid	bottom	0 mm	NR Band n14	Ant 3	NJ5X4097NF	10	DFT-S-OFDM	QPSK	1	50	20.50	19.47	0.12	1:1	0.017	1.268	0.022	0.009	0.011				
793.00	158600	Mid	bottom	0 mm	NR Band n14	Ant 3	NJ5X4097NF	10	DFT-S-OFDM	QPSK	25	14	20.50	19.34	-0.10	1:1	0.019	1.306	0.025	0.009	0.012				
793.00	158600	Mid	right	0 mm	NR Band n14	Ant 3	NJ5X4097NF	10	DFT-S-OFDM	QPSK	1	50	20.50	19.47	0.02	1:1	0.212	1.268	0.269	0.095	0.120				
793.00	158600	Mid	right	0 mm	NR Band n14	Ant 3	NJ5X4097NF	10	DFT-S-OFDM	QPSK	25	14	20.50	19.34	-0.05	1:1	0.227	1.306	0.296	0.102	0.133				
793.00	158600	Mid	left	0 mm	NR Band n14	Ant 3	NJ5X4097NF	10	DFT-S-OFDM	QPSK	1	50	20.50	19.47	0.06	1:1	0.029	1.268	0.037	0.013	0.016				
793.00	158600	Mid	left	0 mm	NR Band n14	Ant 3	NJ5X4097NF	10	DFT-S-OFDM	QPSK	25	14	20.50	19.34	0.09	1:1	0.029	1.306	0.038	0.012	0.016				
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 10-53
NR Band n26 (Cell) Ant 1 Body SAR

MEASUREMENT RESULTS																									
FREQUENCY		Side	Spacing	Mode	Antenna Config	Serial Number	Bandwidth [MHz]	Waveform	Modulation	RB Size	RB Offset	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #				
MHz	Ch.															(W/kg)		(W/kg)	(W/kg)	(W/kg)					
819.00	163800	Low	back	0 mm	NR Band n26 (Cell)	Ant 1	DM6OTTY2VT	10	DFT-S-OFDM	QPSK	1	1	20.00	18.49	-0.01	1:1	0.569	1.416	0.806	0.221	0.313				
831.50	166300	Mid	back	0 mm	NR Band n26 (Cell)	Ant 1	DM6OTTY2VT	10	DFT-S-OFDM	QPSK	1	1	20.00	18.36	-0.09	1:1	0.572	1.459	0.835	0.219	0.320				
844.00	168800	High	back	0 mm	NR Band n26 (Cell)	Ant 1	DM6OTTY2VT	10	DFT-S-OFDM	QPSK	1	26	20.00	18.50	0.02	1:1	0.504	1.413	0.712	0.200	0.283				
819.00	163800	Low	back	0 mm	NR Band n26 (Cell)	Ant 1	DM6OTTY2VT	10	DFT-S-OFDM	QPSK	25	0	20.00	18.47	-0.03	1:1	0.590	1.422	0.839	0.230	0.327				
831.50	166300	Mid	back	0 mm	NR Band n26 (Cell)	Ant 1	DM6OTTY2VT	10	DFT-S-OFDM	QPSK	25	0	20.00	18.32	-0.11	1:1	0.563	1.472	0.829	0.237	0.349				
844.00	168800	High	back	0 mm	NR Band n26 (Cell)	Ant 1	DM6OTTY2VT	10	DFT-S-OFDM	QPSK	25	0	20.00	18.45	-0.02	1:1	0.555	1.429	0.793	0.212	0.303				
819.00	163800	Low	back	0 mm	NR Band n26 (Cell)	Ant 1	DM6OTTY2VT	10	DFT-S-OFDM	QPSK	50	0	20.00	18.40	-0.01	1:1	0.685	1.445	0.990	0.256	0.370				
#N/A	819000	High	back	0 mm	NR Band n26 (Cell)	Ant 1	DM6OTTY2VT	10	CP-OFDM	QPSK	1	1	20.00	18.49	0.00	1:1	0.691	1.416	0.978	0.281	0.398	A19			
844.00	168800	High	top	0 mm	NR Band n26 (Cell)	Ant 1	DM6OTTY2VT	10	DFT-S-OFDM	QPSK	1	26	20.00	18.50	-0.07	1:1	0.016	1.413	0.023	0.007	0.010				
819.00	163800	Low	top	0 mm	NR Band n26 (Cell)	Ant 1	DM6OTTY2VT	10	DFT-S-OFDM	QPSK	25	0	20.00	18.47	-0.09	1:1	0.011	1.422	0.016	0.005	0.007				
844.00	168800	High	bottom	0 mm	NR Band n26 (Cell)	Ant 1	DM6OTTY2VT	10	DFT-S-OFDM	QPSK	1	26	20.00	18.50	-0.07	1:1	0.385	1.413	0.544	0.153	0.216				
819.00	163800	Low	bottom	0 mm	NR Band n26 (Cell)	Ant 1	DM6OTTY2VT	10	DFT-S-OFDM	QPSK	25	0	20.00	18.47	-0.02	1:1	0.427	1.422	0.607	0.167	0.237				
844.00	168800	High	right	0 mm	NR Band n26 (Cell)	Ant 1	DM6OTTY2VT	10	DFT-S-OFDM	QPSK	1	26	20.00	18.50	-0.03	1:1	0.028	1.413	0.040	0.013	0.018				
819.00	163800	Low	right	0 mm	NR Band n26 (Cell)	Ant 1	DM6OTTY2VT	10	DFT-S-OFDM	QPSK	25	0	20.00	18.47	-0.04	1:1	0.014	1.422	0.020	0.007	0.010				
844.00	168800	High	left	0 mm	NR Band n26 (Cell)	Ant 1	DM6OTTY2VT	10	DFT-S-OFDM	QPSK	1	26	20.00	18.50	0.01	1:1	0.389	1.413	0.550	0.147	0.208				
819.00	163800	Low	left	0 mm	NR Band n26 (Cell)	Ant 1	DM6OTTY2VT	10	DFT-S-OFDM	QPSK	25	0	20.00	18.47	0.00	1:1	0.321	1.422	0.456	0.116	0.165				
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 10-54
NR Band n26 (Cell) Ant 3 Body SAR

MEASUREMENT RESULTS																							
FREQUENCY		Side	Spacing	Mode	Antenna Config	Serial Number	Bandwidth [MHz]	Waveform	Modulation	RB Size	RB Offset	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.															(W/kg)		(W/kg)	(W/kg)	(W/kg)	
819.00	163800	Low	back	0 mm	NR Band n26 (Cell)	Ant 3	F7063INVTK	10	DFT-S-OFDM	QPSK	1	1	19.50	18.20	-0.01	1:1	0.582	1.349	0.785	0.306	0.413	
819.00	163800	Low	back	0 mm	NR Band n26 (Cell)	Ant 3	F7063INVTK	10	DFT-S-OFDM	QPSK	25	0	19.50	18.12	0.01	1:1	0.566	1.374	0.778	0.295	0.405	
819.00	163800	Low	top	0 mm	NR Band n26 (Cell)	Ant 3	F7063INVTK	10	DFT-S-OFDM	QPSK	1	1	19.50	18.20	0.08	1:1	0.655	1.349	0.884	0.265	0.357	
831.50	166300	Mid	top	0 mm	NR Band n26 (Cell)	Ant 3	F7063INVTK	10	DFT-S-OFDM	QPSK	1	26	19.50	18.10	0.03	1:1	0.581	1.380	0.802	0.238	0.328	
844.00	168800	High	top	0 mm	NR Band n26 (Cell)	Ant 3	F7063INVTK	10	DFT-S-OFDM	QPSK	1	26	19.50	18.14	0.00	1:1	0.586	1.368	0.802	0.240	0.328	
819.00	163800	Low	top	0 mm	NR Band n26 (Cell)	Ant 3	F7063INVTK	10	DFT-S-OFDM	QPSK	25	0	19.50	18.12	0.00	1:1	0.637	1.374	0.875	0.258	0.354	
831.50	166300	Mid	top	0 mm	NR Band n26 (Cell)	Ant 3	F7063INVTK	10	DFT-S-OFDM	QPSK	25	0	19.50	18.10	-0.01	1:1	0.612	1.380	0.845	0.248	0.342	
844.00	168800	High	top	0 mm	NR Band n26 (Cell)	Ant 3	F7063INVTK	10	DFT-S-OFDM	QPSK	25	14	19.50	18.09	-0.02	1:1	0.593	1.384	0.821	0.240	0.332	
819.00	163800	Low	top	0 mm	NR Band n26 (Cell)	Ant 3	F7063INVTK	10	DFT-S-OFDM	QPSK	50	0	19.50	18.09	0.01	1:1	0.580	1.384	0.803	0.236	0.327	
819.00	163800	Low	top	0 mm	NR Band n26 (Cell)	Ant 3	F7063INVTK	10	CP-OFDM	QPSK	1	1	19.50	18.00	0.03	1:1	0.625	1.413	0.883	0.254	0.359	
819.00	163800	Low	bottom	0 mm	NR Band n26 (Cell)	Ant 3	F7063INVTK	10	DFT-S-OFDM	QPSK	1	1	19.50	18.20	-0.20	1:1	0.014	1.349	0.019	0.007	0.009	
819.00	163800	Low	bottom	0 mm	NR Band n26 (Cell)	Ant 3	F7063INVTK	10	DFT-S-OFDM	QPSK	25	0	19.50	18.12	0.11	1:1	0.009	1.374	0.012	0.004	0.005	
819.00	163800	Low	right	0 mm	NR Band n26 (Cell)	Ant 3	F7063INVTK	10	DFT-S-OFDM	QPSK	1	1	19.50	18.20	0.00	1:1	0.275	1.349	0.371	0.114	0.154	
819.00	163800	Low	right	0 mm	NR Band n26 (Cell)	Ant 3	F7063INVTK	10	DFT-S-OFDM	QPSK	25	0	19.50	18.12	-0.07	1:1	0.258	1.374	0.354	0.111	0.153	
819.00	163800	Low	left	0 mm	NR Band n26 (Cell)	Ant 3	F7063INVTK	10	DFT-S-OFDM	QPSK	1	1	19.50	18.20	0.09	1:1	0.021	1.349	0.028	0.009	0.012	
819.00	163800	Low	left	0 mm	NR Band n26 (Cell)	Ant 3	F7063INVTK	10	DFT-S-OFDM	QPSK	25	0	19.50	18.12	-0.16	1:1	0.021	1.374	0.029	0.010	0.014	
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 10-55
NR Band n5 (Cell) Ant 1 Body SAR

MEASUREMENT RESULTS																							
FREQUENCY			Side	Spacing	Mode	Antenna Config	Serial Number	Bandwidth [MHz]	Waveform	Modulation	RB Size	RB Offset	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.																(W/kg)		(W/kg)	(W/kg)	(W/kg)	
836.50	167300	Mid	back	0 mm	NR Band n5 (Cell)	Ant 1	P3K2L17CME	20	DFT-S-OFDM	QPSK	1	1	20.00	18.66	-0.02	1:1	0.616	1.361	0.838	0.243	0.331	
836.50	167300	Mid	back	0 mm	NR Band n5 (Cell)	Ant 1	P3K2L17CME	20	DFT-S-OFDM	QPSK	50	0	20.00	18.56	-0.06	1:1	0.547	1.393	0.762	0.221	0.308	
836.50	167300	Mid	back	0 mm	NR Band n5 (Cell)	Ant 1	P3K2L17CME	20	DFT-S-OFDM	QPSK	100	0	20.00	18.52	0.00	1:1	0.512	1.406	0.720	0.208	0.292	
836.50	167300	Mid	back	0 mm	NR Band n5 (Cell)	Ant 1	P3K2L17CME	20	CP-OFDM	QPSK	1	1	20.00	18.48	-0.03	1:1	0.605	1.419	0.858	0.249	0.353	
836.50	167300	Mid	top	0 mm	NR Band n5 (Cell)	Ant 1	P3K2L17CME	20	DFT-S-OFDM	QPSK	1	1	20.00	18.66	0.04	1:1	0.013	1.361	0.018	0.005	0.007	
836.50	167300	Mid	top	0 mm	NR Band n5 (Cell)	Ant 1	P3K2L17CME	20	DFT-S-OFDM	QPSK	50	0	20.00	18.56	-0.05	1:1	0.014	1.393	0.020	0.007	0.010	
836.50	167300	Mid	bottom	0 mm	NR Band n5 (Cell)	Ant 1	P3K2L17CME	20	DFT-S-OFDM	QPSK	1	1	20.00	18.66	-0.01	1:1	0.441	1.361	0.600	0.172	0.234	
836.50	167300	Mid	bottom	0 mm	NR Band n5 (Cell)	Ant 1	P3K2L17CME	20	DFT-S-OFDM	QPSK	50	0	20.00	18.56	-0.04	1:1	0.418	1.393	0.582	0.162	0.226	
836.50	167300	Mid	right	0 mm	NR Band n5 (Cell)	Ant 1	P3K2L17CME	20	DFT-S-OFDM	QPSK	1	1	20.00	18.66	-0.03	1:1	0.027	1.361	0.037	0.013	0.018	
836.50	167300	Mid	right	0 mm	NR Band n5 (Cell)	Ant 1	P3K2L17CME	20	DFT-S-OFDM	QPSK	50	0	20.00	18.56	0.09	1:1	0.027	1.393	0.038	0.013	0.018	
836.50	167300	Mid	left	0 mm	NR Band n5 (Cell)	Ant 1	P3K2L17CME	20	DFT-S-OFDM	QPSK	1	1	20.00	18.66	0.05	1:1	0.363	1.361	0.494	0.137	0.186	
836.50	167300	Mid	left	0 mm	NR Band n5 (Cell)	Ant 1	P3K2L17CME	20	DFT-S-OFDM	QPSK	50	0	20.00	18.56	0.01	1:1	0.359	1.393	0.500	0.136	0.189	
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 10-56
NR Band n5 (Cell) Ant 3 Body SAR

MEASUREMENT RESULTS																							
FREQUENCY			Side	Spacing	Mode	Antenna Config	Serial Number	Bandwidth [MHz]	Waveform	Modulation	RB Size	RB Offset	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.																(W/kg)		(W/kg)	(W/kg)	(W/kg)	
836.50	167300	Mid	back	0 mm	NR Band n5 (Cell)	Ant 3	QLW4563W0L	20	DFT-S-OFDM	QPSK	1	1	19.50	18.24	-0.01	1:1	0.560	1.337	0.749	0.291	0.389	
836.50	167300	Mid	back	0 mm	NR Band n5 (Cell)	Ant 3	QLW4563W0L	20	DFT-S-OFDM	QPSK	50	0	19.50	18.19	0.00	1:1	0.540	1.352	0.730	0.284	0.384	
836.50	167300	Mid	top	0 mm	NR Band n5 (Cell)	Ant 3	QLW4563W0L	20	DFT-S-OFDM	QPSK	1	1	19.50	18.24	0.01	1:1	0.644	1.337	0.861	0.246	0.329	
836.50	167300	Mid	top	0 mm	NR Band n5 (Cell)	Ant 3	QLW4563W0L	20	DFT-S-OFDM	QPSK	50	0	19.50	18.19	-0.02	1:1	0.647	1.352	0.875	0.247	0.334	
836.50	167300	Mid	top	0 mm	NR Band n5 (Cell)	Ant 3	QLW4563W0L	20	DFT-S-OFDM	QPSK	100	0	19.50	18.13	0.02	1:1	0.634	1.371	0.869	0.244	0.335	
836.50	167300	Mid	top	0 mm	NR Band n5 (Cell)	Ant 3	QLW4563W0L	20	CP-OFDM	QPSK	1	1	19.50	18.08	0.09	1:1	0.675	1.387	0.936	0.253	0.351	A20
836.50	167300	Mid	bottom	0 mm	NR Band n5 (Cell)	Ant 3	QLW4563W0L	20	DFT-S-OFDM	QPSK	1	1	19.50	18.24	-0.03	1:1	0.017	1.337	0.023	0.008	0.011	
836.50	167300	Mid	bottom	0 mm	NR Band n5 (Cell)	Ant 3	QLW4563W0L	20	DFT-S-OFDM	QPSK	50	0	19.50	18.19	0.09	1:1	0.017	1.352	0.023	0.008	0.011	
836.50	167300	Mid	right	0 mm	NR Band n5 (Cell)	Ant 3	QLW4563W0L	20	DFT-S-OFDM	QPSK	1	1	19.50	18.24	-0.03	1:1	0.300	1.337	0.401	0.128	0.171	
836.50	167300	Mid	right	0 mm	NR Band n5 (Cell)	Ant 3	QLW4563W0L	20	DFT-S-OFDM	QPSK	50	0	19.50	18.19	-0.06	1:1	0.300	1.352	0.406	0.127	0.172	
836.50	167300	Mid	left	0 mm	NR Band n5 (Cell)	Ant 3	QLW4563W0L	20	DFT-S-OFDM	QPSK	1	1	19.50	18.24	-0.18	1:1	0.025	1.337	0.033	0.012	0.016	
836.50	167300	Mid	left	0 mm	NR Band n5 (Cell)	Ant 3	QLW4563W0L	20	DFT-S-OFDM	QPSK	50	0	19.50	18.19	-0.13	1:1	0.023	1.352	0.031	0.011	0.015	
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 10-57
NR Band n70 Ant 1 Body SAR

MEASUREMENT RESULTS																								
FREQUENCY		Side	Spacing	Mode	Antenna Config	Serial Number	Bandwidth [MHz]	Waveform	Modulation	RB Size	RB Offset	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.															(W/kg)		(W/kg)	(W/kg)	(W/kg)	
1702.50	340500	Mid	back	0 mm	NR Band n70	Ant 1	YQX07CJDXV	15	DFT-S-OFDM	QPSK	1	40	15.70	14.65	0.01	1:1	0.571	1.274	0.727	0.280	0.357	
1702.50	340500	Mid	back	0 mm	NR Band n70	Ant 1	YQX07CJDXV	15	DFT-S-OFDM	QPSK	36	43	15.70	14.57	0.03	1:1	0.452	1.297	0.586	0.226	0.293	
1702.50	340500	Mid	top	0 mm	NR Band n70	Ant 1	YQX07CJDXV	15	DFT-S-OFDM	QPSK	1	40	15.70	14.65	-0.04	1:1	0.011	1.274	0.014	0.004	0.005	
1702.50	340500	Mid	top	0 mm	NR Band n70	Ant 1	YQX07CJDXV	15	DFT-S-OFDM	QPSK	36	43	15.70	14.57	-0.06	1:1	0.012	1.297	0.016	0.004	0.005	
1702.50	340500	Mid	bottom	0 mm	NR Band n70	Ant 1	YQX07CJDXV	15	DFT-S-OFDM	QPSK	1	40	15.70	14.65	0.09	1:1	0.154	1.274	0.196	0.071	0.090	
1702.50	340500	Mid	bottom	0 mm	NR Band n70	Ant 1	YQX07CJDXV	15	DFT-S-OFDM	QPSK	36	43	15.70	14.57	-0.01	1:1	0.148	1.297	0.192	0.071	0.092	
1702.50	340500	Mid	right	0 mm	NR Band n70	Ant 1	YQX07CJDXV	15	DFT-S-OFDM	QPSK	1	40	15.70	14.65	-0.03	1:1	0.000	1.274	0.000	0.000	0.000	
1702.50	340500	Mid	right	0 mm	NR Band n70	Ant 1	YQX07CJDXV	15	DFT-S-OFDM	QPSK	36	43	15.70	14.57	-0.11	1:1	0.000	1.297	0.000	0.000	0.000	
1702.50	340500	Mid	left	0 mm	NR Band n70	Ant 1	YQX07CJDXV	15	DFT-S-OFDM	QPSK	1	40	15.70	14.65	-0.03	1:1	0.664	1.274	0.846	0.254	0.324	
1702.50	340500	Mid	left	0 mm	NR Band n70	Ant 1	YQX07CJDXV	15	DFT-S-OFDM	QPSK	36	43	15.70	14.57	-0.01	1:1	0.614	1.297	0.796	0.240	0.311	
1702.50	340500	Mid	left	0 mm	NR Band n70	Ant 1	YQX07CJDXV	15	DFT-S-OFDM	QPSK	75	0	15.70	14.50	-0.01	1:1	0.613	1.318	0.808	0.242	0.319	
1702.50	340500	Mid	left	0 mm	NR Band n70	Ant 1	YQX07CJDXV	15	CP-OFDM	QPSK	1	1	15.70	14.45	-0.11	1:1	0.585	1.334	0.780	0.237	0.316	
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 10-58
NR Band n70 Ant 2b Body SAR

MEASUREMENT RESULTS																								
FREQUENCY		Side	Spacing	Mode	Antenna Config	Serial Number	Bandwidth [MHz]	Waveform	Modulation	RB Size	RB Offset	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.															(W/kg)		(W/kg)	(W/kg)	(W/kg)	
1702.50	340500	Mid	back	0 mm	NR Band n70	Ant 2b	KV24T2PT9R	15	DFT-S-OFDM	QPSK	1	40	15.00	13.80	0.01	1:1	0.427	1.318	0.563	0.174	0.229	
1702.50	340500	Mid	back	0 mm	NR Band n70	Ant 2b	KV24T2PT9R	15	DFT-S-OFDM	QPSK	36	43	15.00	13.71	-0.01	1:1	0.444	1.346	0.598	0.181	0.244	
1702.50	340500	Mid	top	0 mm	NR Band n70	Ant 2b	KV24T2PT9R	15	DFT-S-OFDM	QPSK	1	40	15.00	13.80	0.01	1:1	0.000	1.318	0.000	0.000	0.000	
1702.50	340500	Mid	top	0 mm	NR Band n70	Ant 2b	KV24T2PT9R	15	DFT-S-OFDM	QPSK	36	43	15.00	13.71	0.00	1:1	0.000	1.346	0.000	0.000	0.000	
1702.50	340500	Mid	bottom	0 mm	NR Band n70	Ant 2b	KV24T2PT9R	15	DFT-S-OFDM	QPSK	1	40	15.00	13.80	0.03	1:1	0.669	1.318	0.882	0.245	0.323	A21
1702.50	340500	Mid	bottom	0 mm	NR Band n70	Ant 2b	KV24T2PT9R	15	DFT-S-OFDM	QPSK	36	43	15.00	13.71	0.03	1:1	0.646	1.346	0.870	0.237	0.319	
1702.50	340500	Mid	bottom	0 mm	NR Band n70	Ant 2b	KV24T2PT9R	15	DFT-S-OFDM	QPSK	75	0	15.00	13.68	0.02	1:1	0.582	1.355	0.789	0.218	0.295	
1702.50	340500	Mid	bottom	0 mm	NR Band n70	Ant 2b	KV24T2PT9R	15	CP-OFDM	QPSK	1	1	15.00	13.63	0.01	1:1	0.592	1.371	0.812	0.222	0.304	
1702.50	340500	Mid	right	0 mm	NR Band n70	Ant 2b	KV24T2PT9R	15	DFT-S-OFDM	QPSK	1	40	15.00	13.80	-0.04	1:1	0.022	1.318	0.029	0.009	0.012	
1702.50	340500	Mid	right	0 mm	NR Band n70	Ant 2b	KV24T2PT9R	15	DFT-S-OFDM	QPSK	36	43	15.00	13.71	-0.12	1:1	0.023	1.346	0.031	0.009	0.012	
1702.50	340500	Mid	left	0 mm	NR Band n70	Ant 2b	KV24T2PT9R	15	DFT-S-OFDM	QPSK	1	40	15.00	13.80	0.04	1:1	0.005	1.318	0.007	0.001	0.001	
1702.50	340500	Mid	left	0 mm	NR Band n70	Ant 2b	KV24T2PT9R	15	DFT-S-OFDM	QPSK	36	43	15.00	13.71	-0.03	1:1	0.003	1.346	0.004	0.000	0.000	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population												Body 1.6 W/kg (mW/g) averaged over 1 gram										

Table 10-59
NR Band n70 Ant 3 Body SAR

MEASUREMENT RESULTS																					
FREQUENCY		Side	Spacing	Mode	Antenna Config	Serial Number	Bandwidth [MHz]	Waveform	Modulation	RB Size	RB Offset	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.															(W/kg)		(W/kg)	(W/kg)	(W/kg)	
1702.50	340500	Mid	back	0 mm	NR Band n70	Ant 3	P3K2L17CM6	15	DFT-S-OFDM	QPSK	1	1	16.00	14.44	0.02	1:1	0.328	1.432	0.470	0.171	0.245	
1702.50	340500	Mid	back	0 mm	NR Band n70	Ant 3	P3K2L17CM6	15	DFT-S-OFDM	QPSK	36	22	16.00	14.35	-0.03	1:1	0.309	1.462	0.452	0.163	0.238	
1702.50	340500	Mid	top	0 mm	NR Band n70	Ant 3	P3K2L17CM6	15	DFT-S-OFDM	QPSK	1	1	16.00	14.44	0.06	1:1	0.123	1.432	0.176	0.045	0.064	
1702.50	340500	Mid	top	0 mm	NR Band n70	Ant 3	P3K2L17CM6	15	DFT-S-OFDM	QPSK	36	22	16.00	14.35	-0.10	1:1	0.129	1.462	0.189	0.047	0.069	
1702.50	340500	Mid	bottom	0 mm	NR Band n70	Ant 3	P3K2L17CM6	15	DFT-S-OFDM	QPSK	1	1	16.00	14.44	0.06	1:1	0.017	1.432	0.024	0.007	0.010	
1702.50	340500	Mid	bottom	0 mm	NR Band n70	Ant 3	P3K2L17CM6	15	DFT-S-OFDM	QPSK	36	22	16.00	14.35	-0.05	1:1	0.014	1.462	0.020	0.006	0.009	
1702.50	340500	Mid	right	0 mm	NR Band n70	Ant 3	P3K2L17CM6	15	DFT-S-OFDM	QPSK	1	1	16.00	14.44	0.03	1:1	0.536	1.432	0.768	0.224	0.321	
1702.50	340500	Mid	right	0 mm	NR Band n70	Ant 3	P3K2L17CM6	15	DFT-S-OFDM	QPSK	36	22	16.00	14.35	-0.01	1:1	0.531	1.462	0.776	0.216	0.316	
1702.50	340500	Mid	right	0 mm	NR Band n70	Ant 3	P3K2L17CM6	15	CP-OFDM	QPSK	1	1	16.00	14.33	0.01	1:1	0.579	1.469	0.851	0.236	0.347	
1702.50	340500	Mid	left	0 mm	NR Band n70	Ant 3	P3K2L17CM6	15	DFT-S-OFDM	QPSK	1	1	16.00	14.44	0.21	1:1	0.000	1.432	0.000	0.000	0.000	
1702.50	340500	Mid	left	0 mm	NR Band n70	Ant 3	P3K2L17CM6	15	DFT-S-OFDM	QPSK	36	22	16.00	14.35	-0.10	1:1	0.000	1.462	0.000	0.000	0.000	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population												Body 1.6 W/kg (mW/g) averaged over 1 gram										

Table 10-60
NR Band n70 Ant 4b Body SAR

MEASUREMENT RESULTS																					
FREQUENCY		Side	Spacing	Mode	Antenna Config	Serial Number	Bandwidth [MHz]	Waveform	Modulation	RB Size	RB Offset	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.															(W/kg)		(W/kg)	(W/kg)	(W/kg)	
1702.50	340500	Mid	back	0 mm	NR Band n70	Ant 4b	R4YRNF41VF	15	DFT-S-OFDM	QPSK	1	40	13.30	12.33	-0.02	1:1	0.530	1.250	0.663	0.213	0.266	
1702.50	340500	Mid	back	0 mm	NR Band n70	Ant 4b	R4YRNF41VF	15	DFT-S-OFDM	QPSK	36	43	13.30	12.26	-0.06	1:1	0.521	1.271	0.662	0.208	0.264	
1702.50	340500	Mid	back	0 mm	NR Band n70	Ant 4b	R4YRNF41VF	15	CP-OFDM	QPSK	1	1	0.00	0.00	-0.04	1:1	0.505	1.000	0.505	0.201	0.201	
1702.50	340500	Mid	top	0 mm	NR Band n70	Ant 4b	R4YRNF41VF	15	DFT-S-OFDM	QPSK	1	40	13.30	12.33	0.08	1:1	0.526	1.250	0.658	0.191	0.239	
1702.50	340500	Mid	top	0 mm	NR Band n70	Ant 4b	R4YRNF41VF	15	DFT-S-OFDM	QPSK	36	43	13.30	12.26	0.00	1:1	0.506	1.271	0.643	0.185	0.235	
1702.50	340500	Mid	bottom	0 mm	NR Band n70	Ant 4b	R4YRNF41VF	15	DFT-S-OFDM	QPSK	1	40	13.30	12.33	-0.17	1:1	0.003	1.250	0.004	0.000	0.000	
1702.50	340500	Mid	bottom	0 mm	NR Band n70	Ant 4b	R4YRNF41VF	15	DFT-S-OFDM	QPSK	36	43	13.30	12.26	-0.03	1:1	0.003	1.271	0.004	0.000	0.000	
1702.50	340500	Mid	right	0 mm	NR Band n70	Ant 4b	R4YRNF41VF	15	DFT-S-OFDM	QPSK	1	40	13.30	12.33	0.04	1:1	0.003	1.250	0.004	0.000	0.000	
1702.50	340500	Mid	right	0 mm	NR Band n70	Ant 4b	R4YRNF41VF	15	DFT-S-OFDM	QPSK	36	43	13.30	12.26	-0.05	1:1	0.003	1.271	0.004	0.000	0.000	
1702.50	340500	Mid	left	0 mm	NR Band n70	Ant 4b	R4YRNF41VF	15	DFT-S-OFDM	QPSK	1	40	13.30	12.33	0.00	1:1	0.047	1.250	0.059	0.019	0.024	
1702.50	340500	Mid	left	0 mm	NR Band n70	Ant 4b	R4YRNF41VF	15	DFT-S-OFDM	QPSK	36	43	13.30	12.26	-0.04	1:1	0.044	1.271	0.056	0.019	0.024	
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 10-61
NR Band n66 (AWS) Ant 1 Body SAR

MEASUREMENT RESULTS																									
FREQUENCY		Side	Spacing	Mode	Antenna Config	Serial Number	Bandwidth [MHz]	Waveform	Modulation	RB Size	RB Offset	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.															(W/kg)		(W/kg)	(W/kg)	(W/kg)	
1745.00	349000	Mid	back	0 mm	NR Band n66 (AWS)	Ant 1	YQX07CJDXV	40	DFT-S-OFDM	QPSK	1	1	15.70	14.62	0.00	1:1	0.767	1.282	0.983	0.345	0.442	
1745.00	349000	Mid	back	0 mm	NR Band n66 (AWS)	Ant 1	P3K2L17CM6	40	DFT-S-OFDM	QPSK	108	108	15.70	14.65	0.01	1:1	0.610	1.274	0.777	0.299	0.381	
1745.00	349000	Mid	back	0 mm	NR Band n66 (AWS)	Ant 1	P3K2L17CM6	40	DFT-S-OFDM	QPSK	216	0	15.70	14.58	-0.01	1:1	0.719	1.294	0.930	0.328	0.424	
1745.00	349000	Mid	back	0 mm	NR Band n66 (AWS)	Ant 1	P3K2L17CM6	40	CP-OFDM	QPSK	1	1	15.70	14.64	0.01	1:1	0.777	1.276	0.991	0.352	0.449	A22
1745.00	349000	Mid	top	0 mm	NR Band n66 (AWS)	Ant 1	P3K2L17CM6	40	DFT-S-OFDM	QPSK	1	1	15.70	14.62	-0.07	1:1	0.016	1.282	0.021	0.006	0.008	
1745.00	349000	Mid	top	0 mm	NR Band n66 (AWS)	Ant 1	P3K2L17CM6	40	DFT-S-OFDM	QPSK	108	108	15.70	14.65	-0.03	1:1	0.025	1.274	0.032	0.011	0.014	
1745.00	349000	Mid	bottom	0 mm	NR Band n66 (AWS)	Ant 1	P3K2L17CM6	40	DFT-S-OFDM	QPSK	1	1	15.70	14.62	-0.12	1:1	0.182	1.282	0.233	0.080	0.103	
1745.00	349000	Mid	bottom	0 mm	NR Band n66 (AWS)	Ant 1	P3K2L17CM6	40	DFT-S-OFDM	QPSK	108	108	15.70	14.65	0.00	1:1	0.177	1.274	0.225	0.080	0.102	
1745.00	349000	Mid	right	0 mm	NR Band n66 (AWS)	Ant 1	P3K2L17CM6	40	DFT-S-OFDM	QPSK	1	1	15.70	14.62	-0.08	1:1	0.000	1.282	0.000	0.000	0.000	
1745.00	349000	Mid	right	0 mm	NR Band n66 (AWS)	Ant 1	P3K2L17CM6	40	DFT-S-OFDM	QPSK	108	108	15.70	14.65	-0.01	1:1	0.000	1.274	0.000	0.000	0.000	
1745.00	349000	Mid	left	0 mm	NR Band n66 (AWS)	Ant 1	P3K2L17CM6	40	DFT-S-OFDM	QPSK	1	1	15.70	14.62	-0.02	1:1	0.698	1.282	0.895	0.266	0.341	
1745.00	349000	Mid	left	0 mm	NR Band n66 (AWS)	Ant 1	P3K2L17CM6	40	DFT-S-OFDM	QPSK	108	108	15.70	14.65	0.03	1:1	0.668	1.274	0.851	0.257	0.327	
1745.00	349000	Mid	left	0 mm	NR Band n66 (AWS)	Ant 1	P3K2L17CM6	40	DFT-S-OFDM	QPSK	216	0	15.70	14.58	0.02	1:1	0.679	1.294	0.879	0.261	0.338	
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 10-62
NR Band n66 (AWS) Ant 2b Body SAR

MEASUREMENT RESULTS																									
FREQUENCY		Side	Spacing	Mode	Antenna Config	Serial Number	Bandwidth [MHz]	Waveform	Modulation	RB Size	RB Offset	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.															(W/kg)		(W/kg)	(W/kg)	(W/kg)	
1745.00	349000	Mid	back	0 mm	NR Band n66 (AWS)	Ant 2b	YQX07CJDXV	40	DFT-S-OFDM	QPSK	1	108	15.00	14.49	-0.04	1:1	0.515	1.125	0.579	0.217	0.244	
1745.00	349000	Mid	back	0 mm	NR Band n66 (AWS)	Ant 2b	YQX07CJDXV	40	DFT-S-OFDM	QPSK	108	0	15.00	14.51	0.01	1:1	0.502	1.119	0.562	0.210	0.235	
1745.00	349000	Mid	top	0 mm	NR Band n66 (AWS)	Ant 2b	YQX07CJDXV	40	DFT-S-OFDM	QPSK	1	108	15.00	14.49	0.09	1:1	0.000	1.125	0.000	0.000	0.000	
1745.00	349000	Mid	top	0 mm	NR Band n66 (AWS)	Ant 2b	YQX07CJDXV	40	DFT-S-OFDM	QPSK	108	0	15.00	14.51	-0.03	1:1	0.000	1.119	0.000	0.000	0.000	
1745.00	349000	Mid	bottom	0 mm	NR Band n66 (AWS)	Ant 2b	YQX07CJDXV	40	DFT-S-OFDM	QPSK	1	108	15.00	14.49	0.03	1:1	0.777	1.125	0.874	0.286	0.322	
1745.00	349000	Mid	bottom	0 mm	NR Band n66 (AWS)	Ant 2b	YQX07CJDXV	40	DFT-S-OFDM	QPSK	108	0	15.00	14.51	0.02	1:1	0.763	1.119	0.854	0.280	0.313	
1745.00	349000	Mid	bottom	0 mm	NR Band n66 (AWS)	Ant 2b	YQX07CJDXV	40	DFT-S-OFDM	QPSK	216	0	15.00	14.47	-0.04	1:1	0.757	1.130	0.855	0.279	0.315	
1745.00	349000	Mid	bottom	0 mm	NR Band n66 (AWS)	Ant 2b	YQX07CJDXV	40	CP-OFDM	QPSK	1	1	15.00	14.44	-0.02	1:1	0.723	1.138	0.823	0.267	0.304	
1745.00	349000	Mid	right	0 mm	NR Band n66 (AWS)	Ant 2b	YQX07CJDXV	40	DFT-S-OFDM	QPSK	1	108	15.00	14.49	-0.09	1:1	0.035	1.125	0.039	0.014	0.016	
1745.00	349000	Mid	right	0 mm	NR Band n66 (AWS)	Ant 2b	YQX07CJDXV	40	DFT-S-OFDM	QPSK	108	0	15.00	14.51	-0.03	1:1	0.032	1.119	0.036	0.014	0.016	
1745.00	349000	Mid	left	0 mm	NR Band n66 (AWS)	Ant 2b	YQX07CJDXV	40	DFT-S-OFDM	QPSK	1	108	15.00	14.49	-0.07	1:1	0.003	1.125	0.003	0.000	0.000	
1745.00	349000	Mid	left	0 mm	NR Band n66 (AWS)	Ant 2b	YQX07CJDXV	40	DFT-S-OFDM	QPSK	108	0	15.00	14.51	-0.12	1:1	0.003	1.119	0.003	0.000	0.000	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population										Body 1.6 W/kg (mW/g) averaged over 1 gram															

Table 10-63
NR Band n66 (AWS) Ant 3 Body SAR

MEASUREMENT RESULTS																									
FREQUENCY		Side	Spacing	Mode	Antenna Config	Serial Number	Bandwidth [MHz]	Waveform	Modulation	RB Size	RB Offset	Maximum Allowed Power [dBm]	Conducted Power [dBm]	MPR [dB]	Power Drift [dB]	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.																(W/kg)		(W/kg)	(W/kg)	(W/kg)	
1745.00	349000	Mid	back	0 mm	NR Band n66 (AWS)	Ant 3	P3K2L17CM6	40	DFT-S-OFDM	QPSK	1	214	16.00	14.44	0.00	0.00	1:1	0.340	1.432	0.487	0.178	0.255	
1745.00	349000	Mid	back	0 mm	NR Band n66 (AWS)	Ant 3	P3K2L17CM6	40	DFT-S-OFDM	QPSK	108	0	16.00	14.45	0.00	0.01	1:1	0.378	1.429	0.540	0.197	0.282	
1745.00	349000	Mid	top	0 mm	NR Band n66 (AWS)	Ant 3	P3K2L17CM6	40	DFT-S-OFDM	QPSK	1	214	16.00	14.44	0.00	-0.09	1:1	0.162	1.432	0.232	0.057	0.082	
1745.00	349000	Mid	top	0 mm	NR Band n66 (AWS)	Ant 3	P3K2L17CM6	40	DFT-S-OFDM	QPSK	108	0	16.00	14.45	0.00	-0.03	1:1	0.163	1.429	0.233	0.058	0.083	
1745.00	349000	Mid	bottom	0 mm	NR Band n66 (AWS)	Ant 3	P3K2L17CM6	40	DFT-S-OFDM	QPSK	1	214	16.00	14.44	0.00	-0.04	1:1	0.022	1.432	0.032	0.011	0.016	
1745.00	349000	Mid	bottom	0 mm	NR Band n66 (AWS)	Ant 3	P3K2L17CM6	40	DFT-S-OFDM	QPSK	108	0	16.00	14.45	0.00	-0.08	1:1	0.022	1.429	0.031	0.011	0.016	
1745.00	349000	Mid	right	0 mm	NR Band n66 (AWS)	Ant 3	P3K2L17CM6	40	DFT-S-OFDM	QPSK	1	214	16.00	14.44	0.00	-0.01	1:1	0.546	1.432	0.782	0.229	0.328	
1745.00	349000	Mid	right	0 mm	NR Band n66 (AWS)	Ant 3	P3K2L17CM6	40	DFT-S-OFDM	QPSK	108	0	16.00	14.45	0.00	0.01	1:1	0.585	1.429	0.836	0.246	0.352	
1745.00	349000	Mid	right	0 mm	NR Band n66 (AWS)	Ant 3	P3K2L17CM6	40	DFT-S-OFDM	QPSK	216	0	16.00	14.42	0.00	-0.04	1:1	0.621	1.439	0.894	0.255	0.367	
1745.00	349000	Mid	right	0 mm	NR Band n66 (AWS)	Ant 3	P3K2L17CM6	40	CP-OFDM	QPSK	1	1	16.00	14.39	0.00	-0.02	1:1	0.596	1.452	0.865	0.251	0.364	
1745.00	349000	Mid	left	0 mm	NR Band n66 (AWS)	Ant 3	P3K2L17CM6	40	DFT-S-OFDM	QPSK	1	214	16.00	14.44	0.00	-0.18	1:1	0.003	1.432	0.004	0.000	0.000	
1745.00	349000	Mid	left	0 mm	NR Band n66 (AWS)	Ant 3	P3K2L17CM6	40	DFT-S-OFDM	QPSK	108	0	16.00	14.45	0.00	-0.13	1:1	0.002	1.429	0.003	0.000	0.000	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population										Body 1.6 W/kg (mW/g) averaged over 1 gram															

Table 10-64
NR Band n66 (AWS) Ant 4b Body SAR

MEASUREMENT RESULTS																									
FREQUENCY		Side	Spacing	Mode	Antenna Config	Serial Number	Bandwidth [MHz]	Waveform	Modulation	RB Size	RB Offset	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.															(W/kg)		(W/kg)	(W/kg)	(W/kg)	
1745.00	349000	Mid	back	0 mm	NR Band n66 (AWS)	Ant 4b	P3K2L17CM6	40	DFT-S-OFDM	QPSK	1	1	13.30	12.20	0.01	1:1	0.606	1.288	0.781	0.245	0.316	
1745.00	349000	Mid	back	0 mm	NR Band n66 (AWS)	Ant 4b	P3K2L17CM6	40	DFT-S-OFDM	QPSK	108	108	13.30	12.23	-0.05	1:1	0.712	1.279	0.911	0.281	0.359	
1745.00	349000	Mid	back	0 mm	NR Band n66 (AWS)	Ant 4b	P3K2L17CM6	40	DFT-S-OFDM	QPSK	216	0	13.30	12.19	-0.02	1:1	0.646	1.291	0.834	0.259	0.334	
1745.00	349000	Mid	back	0 mm	NR Band n66 (AWS)	Ant 4b	P3K2L17CM6	40	CP-OFDM	QPSK	1	1	13.30	12.17	0.00	1:1	0.652	1.297	0.840	0.260	0.335	
1745.00	349000	Mid	top	0 mm	NR Band n66 (AWS)	Ant 4b	P3K2L17CM6	40	DFT-S-OFDM	QPSK	1	1	13.30	12.20	-0.02	1:1	0.599	1.288	0.772	0.230	0.283	
1745.00	349000	Mid	top	0 mm	NR Band n66 (AWS)	Ant 4b	P3K2L17CM6	40	DFT-S-OFDM	QPSK	108	108	13.30	12.23	-0.03	1:1	0.605	1.279	0.774	0.222	0.284	
1745.00	349000	Mid	bottom	0 mm	NR Band n66 (AWS)	Ant 4b	P3K2L17CM6	40	DFT-S-OFDM	QPSK	1	1	13.30	12.20	0.03	1:1	0.006	1.288	0.008	0.002	0.003	
1745.00	349000	Mid	bottom	0 mm	NR Band n66 (AWS)	Ant 4b	P3K2L17CM6	40	DFT-S-OFDM	QPSK	108	108	13.30	12.23	0.09	1:1	0.004	1.279	0.005	0.001	0.001	
1745.00	349000	Mid	right	0 mm	NR Band n66 (AWS)	Ant 4b	P3K2L17CM6	40	DFT-S-OFDM	QPSK	1	1	13.30	12.20	0.09	1:1	0.003	1.288	0.004	0.000	0.000	
1745.00	349000	Mid	right	0 mm	NR Band n66 (AWS)	Ant 4b	P3K2L17CM6	40	DFT-S-OFDM	QPSK	108	108	13.30	12.23	-0.06	1:1	0.005	1.279	0.006	0.002	0.003	
1745.00	349000	Mid	left	0 mm	NR Band n66 (AWS)	Ant 4b	P3K2L17CM6	40	DFT-S-OFDM	QPSK	1	1	13.30	12.20	-0.12	1:1	0.051	1.288	0.066	0.021	0.027	
1745.00	349000	Mid	left	0 mm	NR Band n66 (AWS)	Ant 4b	P3K2L17CM6	40	DFT-S-OFDM	QPSK	108	108	13.30	12.23	-0.10	1:1	0.051	1.279	0.065	0.021	0.027	
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 10-65
NR Band n25 (PCS) Ant 1 Body SAR

MEASUREMENT RESULTS																									
FREQUENCY		Side	Spacing	Mode	Antenna Config	Serial Number	Bandwidth [MHz]	Waveform	Modulation	RB Size	RB Offset	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.															(W/kg)		(W/kg)	(W/kg)	(W/kg)	
1882.50	376500	Mid	back	0 mm	NR Band n25 (PCS)	Ant 1	R4YRNF41VF	40	DFT-S-OFDM	QPSK	1	1	15.50	14.50	0.00	1:1	0.616	1.259	0.776	0.279	0.351	
1882.50	376500	Mid	back	0 mm	NR Band n25 (PCS)	Ant 1	R4YRNF41VF	40	DFT-S-OFDM	QPSK	108	0	15.50	14.46	-0.04	1:1	0.595	1.271	0.756	0.268	0.341	
1882.50	376500	Mid	top	0 mm	NR Band n25 (PCS)	Ant 1	R4YRNF41VF	40	DFT-S-OFDM	QPSK	1	1	15.50	14.50	-0.02	1:1	0.017	1.259	0.021	0.007	0.009	
1882.50	376500	Mid	top	0 mm	NR Band n25 (PCS)	Ant 1	R4YRNF41VF	40	DFT-S-OFDM	QPSK	108	0	15.50	14.46	-0.20	1:1	0.018	1.271	0.023	0.007	0.009	
1882.50	376500	Mid	bottom	0 mm	NR Band n25 (PCS)	Ant 1	R4YRNF41VF	40	DFT-S-OFDM	QPSK	1	1	15.50	14.50	0.01	1:1	0.234	1.259	0.295	0.095	0.120	
1882.50	376500	Mid	bottom	0 mm	NR Band n25 (PCS)	Ant 1	R4YRNF41VF	40	DFT-S-OFDM	QPSK	108	0	15.50	14.46	0.04	1:1	0.186	1.271	0.236	0.083	0.105	
1882.50	376500	Mid	right	0 mm	NR Band n25 (PCS)	Ant 1	R4YRNF41VF	40	DFT-S-OFDM	QPSK	1	1	15.50	14.50	-0.13	1:1	0.003	1.259	0.004	0.001	0.001	
1882.50	376500	Mid	right	0 mm	NR Band n25 (PCS)	Ant 1	R4YRNF41VF	40	DFT-S-OFDM	QPSK	108	0	15.50	14.46	-0.03	1:1	0.003	1.271	0.004	0.000	0.000	
1882.50	376500	Mid	left	0 mm	NR Band n25 (PCS)	Ant 1	R4YRNF41VF	40	DFT-S-OFDM	QPSK	1	1	15.50	14.50	-0.03	1:1	0.623	1.259	0.784	0.246	0.310	
1882.50	376500	Mid	left	0 mm	NR Band n25 (PCS)	Ant 1	R4YRNF41VF	40	DFT-S-OFDM	QPSK	108	0	15.50	14.46	-0.04	1:1	0.603	1.271	0.766	0.239	0.304	
1882.50	376500	Mid	left	0 mm	NR Band n25 (PCS)	Ant 1	R4YRNF41VF	40	CP-OFDM	QPSK	1	1	15.50	14.30	0.20	1:1	0.642	1.318	0.846	0.232	0.306	
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 10-66
NR Band n25 (PCS) Ant 2b Body SAR

MEASUREMENT RESULTS																									
FREQUENCY		Side	Spacing	Mode	Antenna Config	Serial Number	Bandwidth [MHz]	Waveform	Modulation	RB Size	RB Offset	Maximum Allowed Power [dBm]	Conducted Power [dBm]	MPR [dB]	Power Drift [dB]	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.																(W/kg)		(W/kg)	(W/kg)	(W/kg)	
1882.50	376500	Mid	back	0 mm	NR Band n25 (PCS)	Ant 2b	R4YRNF41VF	40	DFT-S-OFDM	QPSK	1	108	14.20	13.35	0	-0.02	1:1	0.528	1.216	0.642	0.207	0.252	
1882.50	376500	Mid	back	0 mm	NR Band n25 (PCS)	Ant 2b	R4YRNF41VF	40	DFT-S-OFDM	QPSK	108	108	14.20	13.31	0	-0.03	1:1	0.523	1.227	0.642	0.206	0.253	
1882.50	376500	Mid	top	0 mm	NR Band n25 (PCS)	Ant 2b	R4YRNF41VF	40	DFT-S-OFDM	QPSK	1	108	14.20	13.35	0	0.03	1:1	0.009	1.216	0.011	0.005	0.006	
1882.50	376500	Mid	top	0 mm	NR Band n25 (PCS)	Ant 2b	R4YRNF41VF	40	DFT-S-OFDM	QPSK	108	108	14.20	13.31	0	0.07	1:1	0.002	1.227	0.002	0.000	0.000	
1882.50	376500	Mid	bottom	0 mm	NR Band n25 (PCS)	Ant 2b	R4YRNF41VF	40	DFT-S-OFDM	QPSK	1	108	14.20	13.35	0	-0.01	1:1	0.659	1.216	0.801	0.230	0.280	
1882.50	376500	Mid	bottom	0 mm	NR Band n25 (PCS)	Ant 2b	R4YRNF41VF	40	DFT-S-OFDM	QPSK	108	108	14.20	13.31	0	0.06	1:1	0.650	1.227	0.798	0.227	0.279	
1882.50	376500	Mid	bottom	0 mm	NR Band n25 (PCS)	Ant 2b	R4YRNF41VF	40	DFT-S-OFDM	QPSK	216	0	14.20	13.23	0	-0.04	1:1	0.635	1.250	0.794	0.223	0.279	
1882.50	376500	Mid	bottom	0 mm	NR Band n25 (PCS)	Ant 2b	R4YRNF41VF	40	CP-OFDM	QPSK	1	1	14.20	13.12	0	0.00	1:1	0.661	1.282	0.847	0.231	0.296	
1882.50	376500	Mid	right	0 mm	NR Band n25 (PCS)	Ant 2b	R4YRNF41VF	40	DFT-S-OFDM	QPSK	1	108	14.20	13.35	0	0.05	1:1	0.031	1.216	0.038	0.013	0.016	
1882.50	376500	Mid	right	0 mm	NR Band n25 (PCS)	Ant 2b	R4YRNF41VF	40	DFT-S-OFDM	QPSK	108	108	14.20	13.31	0	0.08	1:1	0.029	1.227	0.036	0.012	0.015	
1882.50	376500	Mid	left	0 mm	NR Band n25 (PCS)	Ant 2b	R4YRNF41VF	40	DFT-S-OFDM	QPSK	1	108	14.20	13.35	0	0.09	1:1	0.004	1.216	0.005	0.001	0.001	
1882.50	376500	Mid	left	0 mm	NR Band n25 (PCS)	Ant 2b	R4YRNF41VF	40	DFT-S-OFDM	QPSK	108	108	14.20	13.31	0	-0.13	1:1	0.003	1.227	0.004	0.000	0.000	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population									Body 1.6 W/kg (mW/g) averaged over 1 gram														

Table 10-67
NR Band n25 (PCS) Ant 3 Body SAR

MEASUREMENT RESULTS																									
FREQUENCY		Side	Spacing	Mode	Antenna Config	Serial Number	Bandwidth [MHz]	Waveform	Modulation	RB Size	RB Offset	Maximum Allowed Power [dBm]	Conducted Power [dBm]	MPR [dB]	Power Drift [dB]	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.																(W/kg)		(W/kg)	(W/kg)	(W/kg)	
1882.50	376500	Mid	back	0 mm	NR Band n25 (PCS)	Ant 3	R4YRNF41VF	40	DFT-S-OFDM	QPSK	1	108	16.90	16.06	0.00	-0.05	1:1	0.660	1.213	0.801	0.318	0.386	
1882.50	376500	Mid	back	0 mm	NR Band n25 (PCS)	Ant 3	R4YRNF41VF	40	DFT-S-OFDM	QPSK	108	108	16.90	16.02	0.00	0.02	1:1	0.638	1.225	0.782	0.305	0.374	
1882.50	376500	Mid	back	0 mm	NR Band n25 (PCS)	Ant 3	R4YRNF41VF	40	DFT-S-OFDM	QPSK	216	0	16.90	15.62	0.00	0.00	1:1	0.640	1.343	0.860	0.308	0.414	
1882.50	376500	Mid	top	0 mm	NR Band n25 (PCS)	Ant 3	R4YRNF41VF	40	DFT-S-OFDM	QPSK	1	108	16.90	16.06	0.00	-0.03	1:1	0.423	1.213	0.513	0.158	0.192	
1882.50	376500	Mid	top	0 mm	NR Band n25 (PCS)	Ant 3	R4YRNF41VF	40	DFT-S-OFDM	QPSK	108	108	16.90	16.02	0.00	0.05	1:1	0.430	1.225	0.527	0.158	0.194	
1882.50	376500	Mid	bottom	0 mm	NR Band n25 (PCS)	Ant 3	R4YRNF41VF	40	DFT-S-OFDM	QPSK	1	108	16.90	16.06	0.00	0.20	1:1	0.003	1.213	0.004	0.000	0.000	
1882.50	376500	Mid	bottom	0 mm	NR Band n25 (PCS)	Ant 3	R4YRNF41VF	40	DFT-S-OFDM	QPSK	108	108	16.90	16.02	0.00	0.02	1:1	0.000	1.225	0.000	0.000	0.000	
1882.50	376500	Mid	right	0 mm	NR Band n25 (PCS)	Ant 3	R4YRNF41VF	40	DFT-S-OFDM	QPSK	1	108	16.90	16.06	0.00	0.02	1:1	0.673	1.213	0.816	0.268	0.325	
1882.50	376500	Mid	right	0 mm	NR Band n25 (PCS)	Ant 3	R4YRNF41VF	40	DFT-S-OFDM	QPSK	108	108	16.90	16.02	0.00	-0.03	1:1	0.665	1.225	0.815	0.266	0.326	
1882.50	376500	Mid	right	0 mm	NR Band n25 (PCS)	Ant 3	R4YRNF41VF	40	DFT-S-OFDM	QPSK	216	0	16.90	15.62	0.00	0.03	1:1	0.675	1.343	0.907	0.270	0.363	
1882.50	376500	Mid	right	0 mm	NR Band n25 (PCS)	Ant 3	R4YRNF41VF	40	CP-OFDM	QPSK	1	1	16.90	15.95	0.00	-0.03	1:1	0.676	1.245	0.842	0.271	0.337	
1882.50	376500	Mid	left	0 mm	NR Band n25 (PCS)	Ant 3	R4YRNF41VF	40	DFT-S-OFDM	QPSK	1	108	16.90	16.06	0.00	0.09	1:1	0.000	1.213	0.000	0.000	0.000	
1882.50	376500	Mid	left	0 mm	NR Band n25 (PCS)	Ant 3	R4YRNF41VF	40	DFT-S-OFDM	QPSK	108	108	16.90	16.02	0.00	0.02	1:1	0.000	1.225	0.000	0.000	0.000	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population									Body 1.6 W/kg (mW/g) averaged over 1 gram														

Table 10-68
NR Band n25 (PCS) Ant 4b Body SAR

MEASUREMENT RESULTS																						
FREQUENCY		Side	Spacing	Mode	Antenna Config	Serial Number	Bandwidth [MHz]	Waveform	Modulation	RB Size	RB Offset	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.															(W/kg)		(W/kg)	(W/kg)	(W/kg)	
1882.50	376500	Mid	back	0 mm	NR Band n25 (PCS)	Ant 4b	R4YRNF41VF	40	DFT-S-OFDM	QPSK	1	108	13.20	12.21	-0.10	1:1	0.699	1.256	0.878	0.275	0.345	
1882.50	376500	Mid	back	0 mm	NR Band n25 (PCS)	Ant 4b	R4YRNF41VF	40	DFT-S-OFDM	QPSK	108	54	13.20	12.17	-0.08	1:1	0.759	1.268	0.962	0.292	0.370	A23
1882.50	376500	Mid	back	0 mm	NR Band n25 (PCS)	Ant 4b	R4YRNF41VF	40	DFT-S-OFDM	QPSK	216	0	13.20	12.16	-0.01	1:1	0.707	1.271	0.899	0.277	0.352	
1882.50	376500	Mid	back	0 mm	NR Band n25 (PCS)	Ant 4b	R4YRNF41VF	40	CP-OFDM	QPSK	1	1	13.20	12.06	-0.03	1:1	0.691	1.300	0.898	0.267	0.347	
1882.50	376500	Mid	top	0 mm	NR Band n25 (PCS)	Ant 4b	R4YRNF41VF	40	DFT-S-OFDM	QPSK	1	108	13.20	12.21	0.01	1:1	0.639	1.256	0.803	0.228	0.286	
1882.50	376500	Mid	top	0 mm	NR Band n25 (PCS)	Ant 4b	R4YRNF41VF	40	DFT-S-OFDM	QPSK	108	54	13.20	12.17	0.09	1:1	0.624	1.268	0.791	0.223	0.283	
1882.50	376500	Mid	top	0 mm	NR Band n25 (PCS)	Ant 4b	R4YRNF41VF	40	DFT-S-OFDM	QPSK	216	0	13.20	12.16	-0.01	1:1	0.660	1.271	0.839	0.233	0.296	
1882.50	376500	Mid	bottom	0 mm	NR Band n25 (PCS)	Ant 4b	R4YRNF41VF	40	DFT-S-OFDM	QPSK	1	108	13.20	12.21	0.16	1:1	0.000	1.256	0.000	0.000	0.000	
1882.50	376500	Mid	bottom	0 mm	NR Band n25 (PCS)	Ant 4b	R4YRNF41VF	40	DFT-S-OFDM	QPSK	108	54	13.20	12.17	0.17	1:1	0.000	1.268	0.000	0.000	0.000	
1882.50	376500	Mid	right	0 mm	NR Band n25 (PCS)	Ant 4b	R4YRNF41VF	40	DFT-S-OFDM	QPSK	1	108	13.20	12.21	0.04	1:1	0.004	1.256	0.005	0.001	0.001	
1882.50	376500	Mid	right	0 mm	NR Band n25 (PCS)	Ant 4b	R4YRNF41VF	40	DFT-S-OFDM	QPSK	108	54	13.20	12.17	-0.03	1:1	0.005	1.268	0.006	0.002	0.003	
1882.50	376500	Mid	left	0 mm	NR Band n25 (PCS)	Ant 4b	R4YRNF41VF	40	DFT-S-OFDM	QPSK	1	108	13.20	12.21	-0.02	1:1	0.043	1.256	0.054	0.013	0.016	
1882.50	376500	Mid	left	0 mm	NR Band n25 (PCS)	Ant 4b	R4YRNF41VF	40	DFT-S-OFDM	QPSK	108	54	13.20	12.17	0.00	1:1	0.045	1.268	0.057	0.014	0.018	
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 10-69
NR Band n30 Ant 1 Body SAR

MEASUREMENT RESULTS

FREQUENCY		Side	Spacing	Mode	Antenna Config	Serial Number	Bandwidth [MHz]	Waveform	Modulation	RB Size	RB Offset	Maximum Allowed Power [dBm]	Conducted Power [dBm]	MPR [dB]	Power Drift [dB]	Duty Cycle	SAR (1g) (W/kg)	Scaling Factor	Reported SAR (1g) (W/kg)	SAR (10g) (W/kg)	Reported SAR (10g) (W/kg)	Plot #
MHz	Ch.																					
2310.00	462000	Mid	back	0 mm	NR Band n30	Ant 1	PDQY9QXYPV	10	DFT-S-OFDM	QPSK	1	1	15.50	14.62	0	0.02	1:1	0.578	1.225	0.708	0.255	0.312	
2310.00	462000	Mid	back	0 mm	NR Band n30	Ant 1	PDQY9QXYPV	10	DFT-S-OFDM	QPSK	25	0	15.50	14.45	0	0.03	1:1	0.566	1.274	0.721	0.250	0.319	
2310.00	462000	Mid	top	0 mm	NR Band n30	Ant 1	PDQY9QXYPV	10	DFT-S-OFDM	QPSK	1	1	15.50	14.62	0	0.06	1:1	0.007	1.225	0.009	0.003	0.004	
2310.00	462000	Mid	top	0 mm	NR Band n30	Ant 1	PDQY9QXYPV	10	DFT-S-OFDM	QPSK	25	0	15.50	14.45	0	-0.21	1:1	0.006	1.274	0.008	0.002	0.003	
2310.00	462000	Mid	bottom	0 mm	NR Band n30	Ant 1	PDQY9QXYPV	10	DFT-S-OFDM	QPSK	1	1	15.50	14.62	0	0.05	1:1	0.186	1.225	0.228	0.058	0.071	
2310.00	462000	Mid	bottom	0 mm	NR Band n30	Ant 1	PDQY9QXYPV	10	DFT-S-OFDM	QPSK	25	0	15.50	14.45	0	-0.02	1:1	0.181	1.274	0.231	0.056	0.071	
2310.00	462000	Mid	right	0 mm	NR Band n30	Ant 1	PDQY9QXYPV	10	DFT-S-OFDM	QPSK	1	1	15.50	14.62	0	0.06	1:1	0.002	1.225	0.002	0.000	0.000	
2310.00	462000	Mid	right	0 mm	NR Band n30	Ant 1	PDQY9QXYPV	10	DFT-S-OFDM	QPSK	25	0	15.50	14.45	0	0.04	1:1	0.002	1.274	0.003	0.000	0.000	
2310.00	462000	Mid	left	0 mm	NR Band n30	Ant 1	PDQY9QXYPV	10	DFT-S-OFDM	QPSK	1	1	15.50	14.62	0	-0.05	1:1	0.658	1.225	0.806	0.234	0.287	
2310.00	462000	Mid	left	0 mm	NR Band n30	Ant 1	PDQY9QXYPV	10	DFT-S-OFDM	QPSK	25	0	15.50	14.45	0	0.04	1:1	0.616	1.274	0.785	0.222	0.283	
2310.00	462000	Mid	left	0 mm	NR Band n30	Ant 1	PDQY9QXYPV	10	DFT-S-OFDM	QPSK	50	0	15.50	14.43	0	-0.02	1:1	0.670	1.279	0.857	0.232	0.297	
2310.00	462000	Mid	left	0 mm	NR Band n30	Ant 1	PDQY9QXYPV	10	CP-OFDM	QPSK	1	1	15.50	14.57	0	0.02	1:1	0.659	1.239	0.817	0.234	0.290	

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 10-70
NR Band n30 Ant 2b Body SAR

MEASUREMENT RESULTS

FREQUENCY		Side	Spacing	Mode	Antenna Config	Serial Number	Bandwidth [MHz]	Waveform	Modulation	RB Size	RB Offset	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Duty Cycle	SAR (1g) (W/kg)	Scaling Factor	Reported SAR (1g) (W/kg)	SAR (10g) (W/kg)	Reported SAR (10g) (W/kg)	Plot #
MHz	Ch.																				
2310.00	462000	Mid	back	0 mm	NR Band n30	Ant 2b	YQXX7CJDXV	10	DFT-S-OFDM	QPSK	1	50	13.90	12.31	0.00	1:1	0.668	1.442	0.963	0.272	0.392	
2310.00	462000	Mid	back	0 mm	NR Band n30	Ant 2b	YQXX7CJDXV	10	DFT-S-OFDM	QPSK	25	0	13.90	12.30	0.01	1:1	0.619	1.445	0.894	0.253	0.366	
2310.00	462000	Mid	back	0 mm	NR Band n30	Ant 2b	YQXX7CJDXV	10	DFT-S-OFDM	QPSK	50	0	13.90	12.29	-0.04	1:1	0.689	1.449	**0.998**	0.277	0.401	A24
2310.00	462000	Mid	back	0 mm	NR Band n30	Ant 2b	YQXX7CJDXV	10	CP-OFDM	QPSK	1	1	13.90	12.27	0.06	1:1	0.655	1.455	0.953	0.266	0.387	
2310.00	462000	Mid	top	0 mm	NR Band n30	Ant 2b	YQXX7CJDXV	10	DFT-S-OFDM	QPSK	1	50	13.90	12.31	0.03	1:1	0.006	1.442	0.009	0.000	0.000	
2310.00	462000	Mid	top	0 mm	NR Band n30	Ant 2b	YQXX7CJDXV	10	DFT-S-OFDM	QPSK	25	0	13.90	12.30	0.19	1:1	0.004	1.445	0.006	0.000	0.000	
2310.00	462000	Mid	bottom	0 mm	NR Band n30	Ant 2b	YQXX7CJDXV	10	DFT-S-OFDM	QPSK	1	50	13.90	12.31	-0.09	1:1	0.429	1.442	0.619	0.151	0.218	
2310.00	462000	Mid	bottom	0 mm	NR Band n30	Ant 2b	YQXX7CJDXV	10	DFT-S-OFDM	QPSK	25	0	13.90	12.30	0.02	1:1	0.419	1.445	0.605	0.148	0.214	
2310.00	462000	Mid	right	0 mm	NR Band n30	Ant 2b	YQXX7CJDXV	10	DFT-S-OFDM	QPSK	1	50	13.90	12.31	0.03	1:1	0.042	1.442	0.061	0.017	0.025	
2310.00	462000	Mid	right	0 mm	NR Band n30	Ant 2b	YQXX7CJDXV	10	DFT-S-OFDM	QPSK	25	0	13.90	12.30	-0.08	1:1	0.040	1.445	0.058	0.016	0.023	
2310.00	462000	Mid	left	0 mm	NR Band n30	Ant 2b	YQXX7CJDXV	10	DFT-S-OFDM	QPSK	1	50	13.90	12.31	0.00	1:1	0.030	1.442	0.043	0.012	0.017	
2310.00	462000	Mid	left	0 mm	NR Band n30	Ant 2b	YQXX7CJDXV	10	DFT-S-OFDM	QPSK	25	0	13.90	12.30	-0.12	1:1	0.028	1.445	0.040	0.011	0.016	

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 10-71
NR Band n30 Ant 3 Body SAR

MEASUREMENT RESULTS

FREQUENCY		Side	Spacing	Mode	Antenna Config	Serial Number	Bandwidth [MHz]	Waveform	Modulation	RB Size	RB Offset	Maximum Allowed Power [dBm]	Conducted Power [dBm]	MPR [dB]	Power Drift [dB]	Duty Cycle	SAR (1g) (W/kg)	Scaling Factor	Reported SAR (1g) (W/kg)	SAR (10g) (W/kg)	Reported SAR (10g) (W/kg)	Plot #
MHz	Ch.																					
2310.00	462000	Mid	back	0 mm	NR Band n30	Ant 3	KV24T2PT9R	10	DFT-S-OFDM	QPSK	1	1	18.50	16.67	0.00	-0.05	1:1	0.390	1.524	0.594	0.162	0.247	
2310.00	462000	Mid	back	0 mm	NR Band n30	Ant 3	KV24T2PT9R	10	DFT-S-OFDM	QPSK	25	0	18.50	16.56	0.00	0.01	1:1	0.386	1.563	0.603	0.162	0.253	
2310.00	462000	Mid	top	0 mm	NR Band n30	Ant 3	KV24T2PT9R	10	DFT-S-OFDM	QPSK	1	1	18.50	16.67	0.00	0.03	1:1	0.608	1.524	0.927	0.179	0.273	
2310.00	462000	Mid	top	0 mm	NR Band n30	Ant 3	KV24T2PT9R	10	DFT-S-OFDM	QPSK	25	0	18.50	16.56	0.00	0.02	1:1	0.528	1.563	0.825	0.158	0.247	
2310.00	462000	Mid	top	0 mm	NR Band n30	Ant 3	KV24T2PT9R	10	DFT-S-OFDM	QPSK	50	0	18.50	16.54	0.00	0.05	1:1	0.574	1.570	0.901	0.170	0.267	
2310.00	462000	Mid	top	0 mm	NR Band n30	Ant 3	KV24T2PT9R	10	CP-OFDM	QPSK	1	1	18.50	16.55	0.00	0.03	1:1	0.570	1.567	0.893	0.169	0.265	
2310.00	462000	Mid	bottom	0 mm	NR Band n30	Ant 3	KV24T2PT9R	10	DFT-S-OFDM	QPSK	1	1	18.50	16.67	0.00	0.21	1:1	0.007	1.524	0.011	0.003	0.005	
2310.00	462000	Mid	bottom	0 mm	NR Band n30	Ant 3	KV24T2PT9R	10	DFT-S-OFDM	QPSK	25	0	18.50	16.56	0.00	0.03	1:1	0.007	1.563	0.011	0.002	0.003	
2310.00	462000	Mid	right	0 mm	NR Band n30	Ant 3	KV24T2PT9R	10	DFT-S-OFDM	QPSK	1	1	18.50	16.67	0.00	-0.04	1:1	0.478	1.524	0.728	0.179	0.273	
2310.00	462000	Mid	right	0 mm	NR Band n30	Ant 3	KV24T2PT9R	10	DFT-S-OFDM	QPSK	25	0	18.50	16.56	0.00	-0.01	1:1	0.480	1.563	0.750	0.179	0.280	
2310.00	462000	Mid	left	0 mm	NR Band n30	Ant 3	KV24T2PT9R	10	DFT-S-OFDM	QPSK	1	1	18.50	16.67	0.00	0.03	1:1	0.014	1.524	0.021	0.005	0.008	
2310.00	462000	Mid	left	0 mm	NR Band n30	Ant 3	KV24T2PT9R	10	DFT-S-OFDM	QPSK	25	0	18.50	16.56	0.00	0.06	1:1	0.015	1.563	0.023	0.005	0.008	

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 10-72
NR Band n30 Ant 4b Body SAR

MEASUREMENT RESULTS

FREQUENCY		Side	Spacing	Mode	Antenna Config	Serial Number	Bandwidth [MHz]	Waveform	Modulation	RB Size	RB Offset	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Duty Cycle	SAR (1g) (W/kg)	Scaling Factor	Reported SAR (1g) (W/kg)	SAR (10g) (W/kg)	Reported SAR (10g) (W/kg)	Plot #
MHz	Ch.																				
2310.00	462000	Mid	back	0 mm	NR Band n30	Ant 4b	KV24T2PT9R	10	DFT-S-OFDM	QPSK	1	50	13.10	11.13	-0.10	1:1	0.580	1.574	0.913	0.217	0.342	
2310.00	462000	Mid	back	0 mm	NR Band n30	Ant 4b	KV24T2PT9R	10	DFT-S-OFDM	QPSK	25	14	13.10	11.11	-0.01	1:1	0.572	1.581	0.904	0.213	0.337	
2310.00	462000	Mid	back	0 mm	NR Band n30	Ant 4b	KV24T2PT9R	10	DFT-S-OFDM	QPSK	50	0	13.10	11.10	-0.04	1:1	0.582	1.585	0.922	0.217	0.344	
2310.00	462000	Mid	back	0 mm	NR Band n30	Ant 4b	KV24T2PT9R	10	CP-OFDM	QPSK	1	1	13.10	11.25	-0.05	1:1	0.604	1.531	0.925	0.225	0.344	
2310.00	462000	Mid	top	0 mm	NR Band n30	Ant 4b	KV24T2PT9R	10	DFT-S-OFDM	QPSK	1	50	13.10	11.13	0.10	1:1	0.529	1.574	0.833	0.180	0.283	
2310.00	462000	Mid	top	0 mm	NR Band n30	Ant 4b	KV24T2PT9R	10	DFT-S-OFDM	QPSK	25	14	13.10	11.11	-0.04	1:1	0.522	1.581	0.825	0.178	0.281	
2310.00	462000	Mid	top	0 mm	NR Band n30	Ant 4b	KV24T2PT9R	10	DFT-S-OFDM	QPSK	50	0	13.10	11.10	-0.02	1:1	0.519	1.585	0.823	0.176	0.279	
2310.00	462000	Mid	bottom	0 mm	NR Band n30	Ant 4b	KV24T2PT9R	10	DFT-S-OFDM	QPSK	1	50	13.10	11.13	0.01	1:1	0.000	1.574	0.000	0.000	0.000	
2310.00	462000	Mid	bottom	0 mm	NR Band n30	Ant 4b	KV24T2PT9R	10	DFT-S-OFDM	QPSK	25	14	13.10	11.11	0.02	1:1	0.001	1.581	0.002	0.000	0.000	
2310.00	462000	Mid	right	0 mm	NR Band n30	Ant 4b	KV24T2PT9R	10	DFT-S-OFDM	QPSK	1	50	13.10	11.13	-0.19	1:1	0.007	1.574	0.011	0.002	0.003	
2310.00	462000	Mid	right	0 mm	NR Band n30	Ant 4b	KV24T2PT9R	10	DFT-S-OFDM	QPSK	25	14	13.10	11.11	0.09	1:1	0.007	1.581	0.011	0.002	0.003	
2310.00	462000	Mid	left	0 mm	NR Band n30	Ant 4b	KV24T2PT9R	10	DFT-S-OFDM	QPSK	1	50	13.10	11.13	-0.04	1:1	0.032	1.574	0.050	0.011	0.017	
2310.00	462000	Mid	left	0 mm	NR Band n30	Ant 4b	KV24T2PT9R	10	DFT-S-OFDM	QPSK	25	14	13.10	11.11	-0.18	1:1	0.030	1.581	0.047	0.010	0.016	

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 10-73
NR Band n7 Ant 1 Body SAR

MEASUREMENT RESULTS

FREQUENCY		Side	Spacing	Mode	Antenna Config	Serial Number	Bandwidth [MHz]	Waveform	Modulation	RB Size	RB Offset	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Duty Cycle	SAR (1g) (W/kg)	Scaling Factor	Reported SAR (1g) (W/kg)	SAR (10g) (W/kg)	Reported SAR (10g) (W/kg)	Plot #
MHz	Ch.																				
2535.00	507000	Mid	back	0 mm	NR Band n7	Ant 1	NYHCJXK4GM	40	DFT-S-OFDM	QPSK	1	108	13.80	12.96	-0.03	1:1	0.331	1.213	0.402	0.132	0.160	
2535.00	507000	Mid	back	0 mm	NR Band n7	Ant 1	NYHCJXK4GM	40	DFT-S-OFDM	QPSK	108	108	13.80	12.87	-0.01	1:1	0.313	1.239	0.388	0.127	0.157	
2535.00	507000	Mid	top	0 mm	NR Band n7	Ant 1	NYHCJXK4GM	40	DFT-S-OFDM	QPSK	1	108	13.80	12.96	0.04	1:1	0.029	1.213	0.035	0.010	0.012	
2535.00	507000	Mid	top	0 mm	NR Band n7	Ant 1	NYHCJXK4GM	40	DFT-S-OFDM	QPSK	108	0	13.80	12.77	-0.19	1:1	0.036	1.268	0.046	0.012	0.015	
2535.00	507000	Mid	bottom	0 mm	NR Band n7	Ant 1	NYHCJXK4GM	40	DFT-S-OFDM	QPSK	1	108	13.80	12.96	-0.03	1:1	0.164	1.213	0.199	0.053	0.064	
2535.00	507000	Mid	bottom	0 mm	NR Band n7	Ant 1	NYHCJXK4GM	40	DFT-S-OFDM	QPSK	108	108	13.80	12.87	-0.01	1:1	0.164	1.239	0.203	0.053	0.066	
2535.00	507000	Mid	right	0 mm	NR Band n7	Ant 1	NYHCJXK4GM	40	DFT-S-OFDM	QPSK	1	108	13.80	12.96	0.04	1:1	0.000	1.213	0.000	0.000	0.000	
2535.00	507000	Mid	right	0 mm	NR Band n7	Ant 1	NYHCJXK4GM	40	DFT-S-OFDM	QPSK	108	0	13.80	12.77	0.06	1:1	0.002	1.268	0.003	0.000	0.000	
2535.00	507000	Mid	left	0 mm	NR Band n7	Ant 1	NYHCJXK4GM	40	DFT-S-OFDM	QPSK	1	108	13.80	12.96	-0.04	1:1	0.605	1.213	0.734	0.195	0.237	
2535.00	507000	Mid	left	0 mm	NR Band n7	Ant 1	NYHCJXK4GM	40	DFT-S-OFDM	QPSK	108	108	13.80	12.87	-0.01	1:1	0.588	1.239	0.729	0.189	0.234	
2535.00	507000	Mid	left	0 mm	NR Band n7	Ant 1	NYHCJXK4GM	40	CP-OFDM	QPSK	1	1	13.80	12.83	0.00	1:1	0.647	1.250	0.809	0.209	0.261	
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 10-74
NR Band n7 Ant 2b Body SAR

MEASUREMENT RESULTS

FREQUENCY		Side	Spacing	Mode	Antenna Config	Serial Number	Bandwidth [MHz]	Waveform	Modulation	RB Size	RB Offset	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Duty Cycle	SAR (1g) (W/kg)	Scaling Factor	Reported SAR (1g) (W/kg)	SAR (10g) (W/kg)	Reported SAR (10g) (W/kg)	Plot #
MHz	Ch.																				
2535.00	507000	Mid	back	0 mm	NR Band n7	Ant 2b	NJSX4097NF	40	DFT-S-OFDM	QPSK	1	1	13.20	12.15	-0.01	1:1	0.710	1.274	0.905	0.274	0.349	
2535.00	507000	Mid	back	0 mm	NR Band n7	Ant 2b	NJSX4097NF	40	DFT-S-OFDM	QPSK	108	0	13.20	12.11	-0.04	1:1	0.688	1.285	0.884	0.264	0.339	
2535.00	507000	Mid	back	0 mm	NR Band n7	Ant 2b	NJSX4097NF	40	DFT-S-OFDM	QPSK	216	0	13.20	12.05	0.01	1:1	0.683	1.303	0.890	0.270	0.352	
2535.00	507000	Mid	back	0 mm	NR Band n7	Ant 2b	NJSX4097NF	40	CP-OFDM	QPSK	1	1	13.20	12.20	-0.04	1:1	0.700	1.259	0.881	0.268	0.337	
2535.00	507000	Mid	top	0 mm	NR Band n7	Ant 2b	NJSX4097NF	40	DFT-S-OFDM	QPSK	1	1	13.20	12.15	-0.14	1:1	0.012	1.274	0.015	0.004	0.005	
2535.00	507000	Mid	top	0 mm	NR Band n7	Ant 2b	NJSX4097NF	40	DFT-S-OFDM	QPSK	108	0	13.20	12.11	0.01	1:1	0.008	1.285	0.010	0.002	0.003	
2535.00	507000	Mid	bottom	0 mm	NR Band n7	Ant 2b	NJSX4097NF	40	DFT-S-OFDM	QPSK	1	1	13.20	12.15	0.04	1:1	0.289	1.274	0.368	0.097	0.124	
2535.00	507000	Mid	bottom	0 mm	NR Band n7	Ant 2b	NJSX4097NF	40	DFT-S-OFDM	QPSK	108	0	13.20	12.11	-0.08	1:1	0.282	1.285	0.362	0.094	0.121	
2535.00	507000	Mid	right	0 mm	NR Band n7	Ant 2b	NJSX4097NF	40	DFT-S-OFDM	QPSK	1	1	13.20	12.15	0.06	1:1	0.017	1.274	0.022	0.005	0.006	
2535.00	507000	Mid	right	0 mm	NR Band n7	Ant 2b	NJSX4097NF	40	DFT-S-OFDM	QPSK	108	0	13.20	12.11	-0.09	1:1	0.018	1.285	0.023	0.006	0.008	
2535.00	507000	Mid	left	0 mm	NR Band n7	Ant 2b	NJSX4097NF	40	DFT-S-OFDM	QPSK	1	1	13.20	12.15	-0.20	1:1	0.018	1.274	0.023	0.007	0.009	
2535.00	507000	Mid	left	0 mm	NR Band n7	Ant 2b	NJSX4097NF	40	DFT-S-OFDM	QPSK	108	0	13.20	12.11	0.08	1:1	0.015	1.285	0.019	0.006	0.008	
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 10-75
NR Band n7 Ant 3 Body SAR

MEASUREMENT RESULTS

FREQUENCY		Side	Spacing	Mode	Antenna Config	Serial Number	Bandwidth [MHz]	Waveform	Modulation	RB Size	RB Offset	Maximum Allowed Power [dBm]	Conducted Power [dBm]	MPR [dB]	Power Drift [dB]	Duty Cycle	SAR (1g) (W/kg)	Scaling Factor	Reported SAR (1g) (W/kg)	SAR (10g) (W/kg)	Reported SAR (10g) (W/kg)	Plot #
MHz	Ch.																					
2535.00	507000	Mid	back	0 mm	NR Band n7	Ant 3	NYHCJXK4GM	40	DFT-S-OFDM	QPSK	1	1	15.70	13.74	0.00	-0.01	1:1	0.283	1.570	0.444	0.116	0.182	
2535.00	507000	Mid	back	0 mm	NR Band n7	Ant 3	NYHCJXK4GM	40	DFT-S-OFDM	QPSK	108	108	15.70	13.77	0.00	-0.01	1:1	0.288	1.560	0.449	0.115	0.179	
2535.00	507000	Mid	top	0 mm	NR Band n7	Ant 3	NYHCJXK4GM	40	DFT-S-OFDM	QPSK	1	1	15.70	13.74	0.00	0.01	1:1	0.501	1.570	0.787	0.174	0.273	
2535.00	507000	Mid	top	0 mm	NR Band n7	Ant 3	NYHCJXK4GM	40	DFT-S-OFDM	QPSK	108	108	15.70	13.77	0.00	-0.02	1:1	0.528	1.560	0.824	0.177	0.276	
2535.00	507000	Mid	top	0 mm	NR Band n7	Ant 3	NYHCJXK4GM	40	DFT-S-OFDM	QPSK	216	0	15.70	13.71	0.00	0.15	1:1	0.521	1.581	0.824	0.176	0.278	
2535.00	507000	Mid	top	0 mm	NR Band n7	Ant 3	NYHCJXK4GM	40	CP-OFDM	QPSK	1	1	15.70	13.72	0.00	-0.03	1:1	0.475	1.578	0.750	0.170	0.268	
2535.00	507000	Mid	bottom	0 mm	NR Band n7	Ant 3	NYHCJXK4GM	40	DFT-S-OFDM	QPSK	1	1	15.70	13.74	0.00	0.03	1:1	0.001	1.570	0.002	0.000	0.000	
2535.00	507000	Mid	bottom	0 mm	NR Band n7	Ant 3	NYHCJXK4GM	40	DFT-S-OFDM	QPSK	108	108	15.70	13.77	0.00	0.01	1:1	0.004	1.560	0.006	0.001	0.002	
2535.00	507000	Mid	right	0 mm	NR Band n7	Ant 3	NYHCJXK4GM	40	DFT-S-OFDM	QPSK	1	1	15.70	13.74	0.00	-0.02	1:1	0.114	1.570	0.179	0.042	0.066	
2535.00	507000	Mid	right	0 mm	NR Band n7	Ant 3	NYHCJXK4GM	40	DFT-S-OFDM	QPSK	108	108	15.70	13.77	0.00	-0.01	1:1	0.119	1.560	0.186	0.042	0.066	
2535.00	507000	Mid	left	0 mm	NR Band n7	Ant 3	NYHCJXK4GM	40	DFT-S-OFDM	QPSK	1	1	15.70	13.74	0.00	0.03	1:1	0.000	1.570	0.000	0.000	0.000	
2535.00	507000	Mid	left	0 mm	NR Band n7	Ant 3	NYHCJXK4GM	40	DFT-S-OFDM	QPSK	108	108	15.70	13.77	0.00	0.20	1:1	0.002	1.560	0.003	0.000	0.000	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population												Body 1.6 W/kg (mW/g) averaged over 1 gram										

Table 10-76
NR Band n7 Ant 4b Body SAR

MEASUREMENT RESULTS

FREQUENCY		Side	Spacing	Mode	Antenna Config	Serial Number	Bandwidth [MHz]	Waveform	Modulation	RB Size	RB Offset	Maximum Allowed Power [dBm]	Conducted Power [dBm]	MPR [dB]	Power Drift [dB]	Duty Cycle	SAR (1g) (W/kg)	Scaling Factor	Reported SAR (1g) (W/kg)	SAR (10g) (W/kg)	Reported SAR (10g) (W/kg)	Plot #
MHz	Ch.																					
2535.00	507000	Mid	back	0 mm	NR Band n7	Ant 4b	F706330NVTK	40	DFT-S-OFDM	QPSK	1	108	13.00	11.70	0.00	0.01	1:1	0.573	1.349	0.773	0.205	0.277	
2535.00	507000	Mid	back	0 mm	NR Band n7	Ant 4b	F706330NVTK	40	DFT-S-OFDM	QPSK	108	108	13.00	11.63	0.00	-0.03	1:1	0.547	1.371	0.750	0.196	0.269	
2535.00	507000	Mid	top	0 mm	NR Band n7	Ant 4b	F706330NVTK	40	DFT-S-OFDM	QPSK	1	108	13.00	11.70	0.00	0.05	1:1	0.703	1.349	0.948	0.225	0.304	
2535.00	507000	Mid	top	0 mm	NR Band n7	Ant 4b	F706330NVTK	40	DFT-S-OFDM	QPSK	108	108	13.00	11.63	0.00	0.05	1:1	0.697	1.371	0.956	0.220	0.302	
2535.00	507000	Mid	top	0 mm	NR Band n7	Ant 4b	F706330NVTK	40	DFT-S-OFDM	QPSK	216	0	13.00	11.61	0.00	0.00	1:1	0.689	1.377	0.949	0.219	0.302	
2535.00	507000	Mid	top	0 mm	NR Band n7	Ant 4b	F706330NVTK	40	CP-OFDM	QPSK	1	1	13.00	11.61	0.00	-0.01	1:1	0.714	1.377	0.983	0.229	0.315	A25
2535.00	507000	Mid	bottom	0 mm	NR Band n7	Ant 4b	F706330NVTK	40	DFT-S-OFDM	QPSK	1	108	13.00	11.70	0.00	0.02	1:1	0.000	1.349	0.000	0.000	0.000	
2535.00	507000	Mid	bottom	0 mm	NR Band n7	Ant 4b	F706330NVTK	40	DFT-S-OFDM	QPSK	108	108	13.00	11.63	0.00	0.09	1:1	0.000	1.371	0.000	0.000	0.000	
2535.00	507000	Mid	right	0 mm	NR Band n7	Ant 4b	F706330NVTK	40	DFT-S-OFDM	QPSK	1	108	13.00	11.70	0.00	-0.13	1:1	0.010	1.349	0.013	0.004	0.005	
2535.00	507000	Mid	right	0 mm	NR Band n7	Ant 4b	F706330NVTK	40	DFT-S-OFDM	QPSK	108	108	13.00	11.63	0.00	-0.18	1:1	0.012	1.371	0.016	0.004	0.005	
2535.00	507000	Mid	left	0 mm	NR Band n7	Ant 4b	F706330NVTK	40	DFT-S-OFDM	QPSK	1	108	13.00	11.70	0.00	-0.07	1:1	0.037	1.349	0.050	0.013	0.018	
2535.00	507000	Mid	left	0 mm	NR Band n7	Ant 4b	F706330NVTK	40	DFT-S-OFDM	QPSK	108	108	13.00	11.63	0.00	-0.07	1:1	0.032	1.371	0.044	0.011	0.015	
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 10-77
NR Band n41 PC2 Ant 1 Body SAR

MEASUREMENT RESULTS																								
FREQUENCY		Side	Spacing	Mode	Antenna Config	Serial Number	Bandwidth [MHz]	Waveform	Modulation	RB Size	RB Offset	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.															(W/kg)		(W/kg)	(W/kg)	(W/kg)	
2592.99	518598	Mid	back	0 mm	NR Band n41 PC2	Ant 1	NYHCJKK4GM	100	DFT-S-OFDM	QPSK	1	1	13.80	13.52	-0.03	1:1	0.399	1.067	0.426	0.161	0.172	
2592.99	518598	Mid	back	0 mm	NR Band n41 PC2	Ant 1	NYHCJKK4GM	100	DFT-S-OFDM	QPSK	135	0	13.80	13.58	0.00	1:1	0.363	1.052	0.382	0.146	0.154	
2592.99	518598	Mid	top	0 mm	NR Band n41 PC2	Ant 1	NYHCJKK4GM	100	DFT-S-OFDM	QPSK	1	1	13.80	13.52	0.05	1:1	0.004	1.067	0.004	0.001	0.001	
2592.99	518598	Mid	top	0 mm	NR Band n41 PC2	Ant 1	NYHCJKK4GM	100	DFT-S-OFDM	QPSK	135	0	13.80	13.58	-0.04	1:1	0.006	1.052	0.006	0.002	0.002	
2592.99	518598	Mid	bottom	0 mm	NR Band n41 PC2	Ant 1	NYHCJKK4GM	100	DFT-S-OFDM	QPSK	1	1	13.80	13.52	-0.06	1:1	0.267	1.067	0.285	0.084	0.090	
2592.99	518598	Mid	bottom	0 mm	NR Band n41 PC2	Ant 1	NYHCJKK4GM	100	DFT-S-OFDM	QPSK	135	0	13.80	13.58	0.06	1:1	0.274	1.052	0.288	0.084	0.088	
2592.99	518598	Mid	right	0 mm	NR Band n41 PC2	Ant 1	NYHCJKK4GM	100	DFT-S-OFDM	QPSK	1	1	13.80	13.52	0.04	1:1	0.000	1.067	0.000	0.000	0.000	
2592.99	518598	Mid	right	0 mm	NR Band n41 PC2	Ant 1	NYHCJKK4GM	100	DFT-S-OFDM	QPSK	135	0	13.80	13.58	0.04	1:1	0.000	1.052	0.000	0.000	0.000	
2592.99	518598	Mid	left	0 mm	NR Band n41 PC2	Ant 1	NYHCJKK4GM	100	DFT-S-OFDM	QPSK	1	1	13.80	13.52	0.00	1:1	0.759	1.067	0.810	0.249	0.266	
2592.99	518598	Mid	left	0 mm	NR Band n41 PC2	Ant 1	NYHCJKK4GM	100	DFT-S-OFDM	QPSK	135	0	13.80	13.58	-0.06	1:1	0.658	1.052	0.692	0.218	0.229	
2592.99	518598	Mid	left	0 mm	NR Band n41 PC2	Ant 1	NYHCJKK4GM	100	DFT-S-OFDM	QPSK	270	0	13.80	13.51	0.05	1:1	0.534	1.069	0.571	0.176	0.188	
2592.99	518598	Mid	left	0 mm	NR Band n41 PC2	Ant 1	NYHCJKK4GM	100	CP-OFDM	QPSK	1	1	13.80	13.28	0.00	1:1	0.746	1.127	0.841	0.246	0.277	
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
NR Band n41 PC2 Ant 2b Body SAR

MEASUREMENT RESULTS																								
FREQUENCY		Side	Spacing	Mode	Antenna Config	Serial Number	Bandwidth [MHz]	Waveform	Modulation	RB Size	RB Offset	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.															(W/kg)		(W/kg)	(W/kg)	(W/kg)	
2592.99	518598	Mid	back	0 mm	NR Band n41 PC2	Ant 2b	F70633NVTK	100	DFT-S-OFDM	QPSK	1	271	12.20	11.64	-0.03	1:1	0.779	1.138	0.887	0.302	0.344	
2592.99	518598	Mid	back	0 mm	NR Band n41 PC2	Ant 2b	F70633NVTK	100	DFT-S-OFDM	QPSK	135	138	12.20	11.65	0.02	1:1	0.775	1.135	0.880	0.296	0.336	
2592.99	518598	Mid	back	0 mm	NR Band n41 PC2	Ant 2b	F70633NVTK	100	DFT-S-OFDM	QPSK	270	0	12.20	11.60	0.04	1:1	0.780	1.148	0.895	0.298	0.342	
2592.99	518598	Mid	back	0 mm	NR Band n41 PC2	Ant 2b	F70633NVTK	100	CP-OFDM	QPSK	1	1	12.20	11.51	-0.07	1:1	0.789	1.172	0.925	0.304	0.356	A26
2592.99	518598	Mid	top	0 mm	NR Band n41 PC2	Ant 2b	F70633NVTK	100	DFT-S-OFDM	QPSK	1	271	12.20	11.64	0.09	1:1	0.000	1.138	0.000	0.000	0.000	
2592.99	518598	Mid	top	0 mm	NR Band n41 PC2	Ant 2b	F70633NVTK	100	DFT-S-OFDM	QPSK	135	138	12.20	11.65	0.01	1:1	0.000	1.135	0.000	0.000	0.000	
2592.99	518598	Mid	bottom	0 mm	NR Band n41 PC2	Ant 2b	F70633NVTK	100	DFT-S-OFDM	QPSK	1	271	12.20	11.64	-0.05	1:1	0.305	1.138	0.347	0.103	0.117	
2592.99	518598	Mid	bottom	0 mm	NR Band n41 PC2	Ant 2b	F70633NVTK	100	DFT-S-OFDM	QPSK	135	138	12.20	11.65	0.06	1:1	0.289	1.135	0.328	0.097	0.110	
2592.99	518598	Mid	right	0 mm	NR Band n41 PC2	Ant 2b	F70633NVTK	100	DFT-S-OFDM	QPSK	1	271	12.20	11.64	0.00	1:1	0.021	1.138	0.024	0.008	0.009	
2592.99	518598	Mid	right	0 mm	NR Band n41 PC2	Ant 2b	F70633NVTK	100	DFT-S-OFDM	QPSK	135	138	12.20	11.65	0.05	1:1	0.020	1.135	0.023	0.007	0.008	
2592.99	518598	Mid	left	0 mm	NR Band n41 PC2	Ant 2b	F70633NVTK	100	DFT-S-OFDM	QPSK	1	271	12.20	11.64	0.06	1:1	0.011	1.138	0.013	0.003	0.003	
2592.99	518598	Mid	left	0 mm	NR Band n41 PC2	Ant 2b	F70633NVTK	100	DFT-S-OFDM	QPSK	135	138	12.20	11.65	0.08	1:1	0.017	1.135	0.019	0.006	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									

Table 10-79
NR Band n41 PC2 Ant 3 Body SAR

MEASUREMENT RESULTS																								
FREQUENCY		Side	Spacing	Mode	Antenna Config	Serial Number	Bandwidth [MHz]	Waveform	Modulation	RB Size	RB Offset	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.															(W/kg)		(W/kg)	(W/kg)	(W/kg)	
2592.99	518598	Mid	back	0 mm	NR Band n41 PC2	Ant 3	NJSX4097NF	100	DFT-S-OFDM	QPSK	1	271	15.20	13.60	0.02	1:1	0.378	1.445	0.546	0.137	0.198	
2592.99	518598	Mid	back	0 mm	NR Band n41 PC2	Ant 3	NJSX4097NF	100	DFT-S-OFDM	QPSK	135	0	15.20	13.54	0.01	1:1	0.330	1.466	0.484	0.130	0.191	
2592.99	518598	Mid	top	0 mm	NR Band n41 PC2	Ant 3	NJSX4097NF	100	DFT-S-OFDM	QPSK	1	271	15.20	13.60	0.03	1:1	0.649	1.445	0.938	0.210	0.303	
2592.99	518598	Mid	top	0 mm	NR Band n41 PC2	Ant 3	NJSX4097NF	100	DFT-S-OFDM	QPSK	135	0	15.20	13.54	0.06	1:1	0.576	1.466	0.844	0.189	0.277	
2592.99	518598	Mid	top	0 mm	NR Band n41 PC2	Ant 3	NJSX4097NF	100	DFT-S-OFDM	QPSK	270	0	15.20	13.50	0.05	1:1	0.586	1.479	0.867	0.192	0.284	
2592.99	518598	Mid	top	0 mm	NR Band n41 PC2	Ant 3	NJSX4097NF	100	CP-OFDM	QPSK	1	1	15.20	13.41	0.02	1:1	0.533	1.510	0.805	0.179	0.270	
2592.99	518598	Mid	bottom	0 mm	NR Band n41 PC2	Ant 3	NJSX4097NF	100	DFT-S-OFDM	QPSK	1	271	15.20	13.60	0.03	1:1	0.004	1.445	0.006	0.002	0.003	
2592.99	518598	Mid	bottom	0 mm	NR Band n41 PC2	Ant 3	NJSX4097NF	100	DFT-S-OFDM	QPSK	135	0	15.20	13.54	0.07	1:1	0.003	1.466	0.004	0.001	0.001	
2592.99	518598	Mid	right	0 mm	NR Band n41 PC2	Ant 3	NJSX4097NF	100	DFT-S-OFDM	QPSK	1	271	15.20	13.60	0.03	1:1	0.204	1.445	0.295	0.069	0.100	
2592.99	518598	Mid	right	0 mm	NR Band n41 PC2	Ant 3	NJSX4097NF	100	DFT-S-OFDM	QPSK	135	0	15.20	13.54	-0.01	1:1	0.145	1.466	0.213	0.050	0.073	
2592.99	518598	Mid	left	0 mm	NR Band n41 PC2	Ant 3	NJSX4097NF	100	DFT-S-OFDM	QPSK	1	271	15.20	13.60	-0.04	1:1	0.011	1.445	0.016	0.003	0.004	
2592.99	518598	Mid	left	0 mm	NR Band n41 PC2	Ant 3	NJSX4097NF	100	DFT-S-OFDM	QPSK	135	0	15.20	13.54	0.05	1:1	0.007	1.466	0.010	0.002	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									

Table 10-80
NR Band n41 PC2 Ant 4b Body SAR

MEASUREMENT RESULTS																								
FREQUENCY		Side	Spacing	Mode	Antenna Config	Serial Number	Bandwidth [MHz]	Waveform	Modulation	RB Size	RB Offset	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.															(W/kg)		(W/kg)	(W/kg)	(W/kg)	
2592.99	518598	Mid	back	0 mm	NR Band n41 PC2	Ant 4b	NJSX4097NF	100	DFT-S-OFDM	QPSK	1	1	12.80	11.20	0.01	1:1	0.521	1.445	0.753	0.185	0.267	
2592.99	518598	Mid	back	0 mm	NR Band n41 PC2	Ant 4b	NJSX4097NF	100	DFT-S-OFDM	QPSK	135	0	12.80	11.17	-0.02	1:1	0.492	1.455	0.716	0.173	0.252	
2592.99	518598	Mid	back	0 mm	NR Band n41 PC2	Ant 4b	NJSX4097NF	100	DFT-S-OFDM	QPSK	270	0	12.80	11.14	0.01	1:1	0.444	1.466	0.651	0.157	0.230	
2592.99	518598	Mid	top	0 mm	NR Band n41 PC2	Ant 4b	NJSX4097NF	100	DFT-S-OFDM	QPSK	1	1	12.80	11.20	0.03	1:1	0.626	1.445	0.905	0.199	0.288	
2592.99	518598	Mid	top	0 mm	NR Band n41 PC2	Ant 4b	NJSX4097NF	100	DFT-S-OFDM	QPSK	135	0	12.80	11.17	0.01	1:1	0.610	1.455	0.888	0.191	0.278	
2592.99	518598	High	top	0 mm	NR Band n41 PC2	Ant 4b	NJSX4097NF	100	DFT-S-OFDM	QPSK	270	0	12.80	11.14	-0.08	1:1	0.583	1.466	0.855	0.183	0.268	
2592.99	518598	Mid	top	0 mm	NR Band n41 PC2	Ant 4b	NJSX4097NF	100	CP-OFDM	QPSK	1	1	12.80	11.20	0.00	1:1	0.630	1.445	0.910	0.199	0.288	
2592.99	518598	Mid	bottom	0 mm	NR Band n41 PC2	Ant 4b	NYHCJKK4GM	100	DFT-S-OFDM	QPSK	1	1	12.80	11.20	0.07	1:1	0.000	1.445	0.000	0.000	0.000	
2592.99	518598	Mid	bottom	0 mm	NR Band n41 PC2	Ant 4b	NYHCJKK4GM	100	DFT-S-OFDM	QPSK	135	0	12.80	11.17	0.05	1:1	0.000	1.455	0.000	0.000	0.000	
2592.99	518598	Mid	right	0 mm	NR Band n41 PC2	Ant 4b	NYHCJKK4GM	100	DFT-S-OFDM	QPSK	1	1	12.80	11.20	0.08	1:1	0.012	1.445	0.017	0.004	0.006	
2592.99	518598	Mid	right	0 mm	NR Band n41 PC2	Ant 4b	NYHCJKK4GM	100	DFT-S-OFDM	QPSK	135	0	12.80	11.17	0.01	1:1	0.012	1.455	0.017	0.005	0.007	
2592.99	518598	Mid	left	0 mm	NR Band n41 PC2	Ant 4b	NJSX4097NF	100	DFT-S-OFDM	QPSK	1	1	12.80	11.20	0.11	1:1	0.033	1.445	0.048	0.011	0.016	
2592.99	518598	Mid	left	0 mm	NR Band n41 PC2	Ant 4b	NJSX4097NF	100	DFT-S-OFDM	QPSK	135	0	12.80	11.17	-0.06	1:1	0.032	1.455	0.047	0.011	0.016	
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 10-81
NR Band n77 DoD PC2 Ant 1 Body SAR

MEASUREMENT RESULTS																									
FREQUENCY		Side	Spacing	Mode	Antenna Config	Serial Number	Bandwidth [MHz]	Waveform	Modulation	RB Size	RB Offset	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.															(W/kg)		(W/kg)	(W/kg)	(W/kg)	
3500.01	633334	Mid	back	0 mm	NR Band n77 DoD PC2	Ant 1	FFGX7764P4	100	DFT-S-OFDM	QPSK	1	271	12.50	11.35	0.04	1:1	0.572	1.303	0.745	0.199	0.259	
3500.01	633334	Mid	back	0 mm	NR Band n77 DoD PC2	Ant 1	FFGX7764P4	100	DFT-S-OFDM	QPSK	135	138	12.50	11.27	-0.01	1:1	0.492	1.327	0.653	0.168	0.223	
3500.01	633334	Mid	back	0 mm	NR Band n77 DoD PC2	Ant 1	FFGX7764P4	100	CP-OFDM	QPSK	1	1	12.50	11.16	0.02	1:1	0.403	1.361	0.548	0.139	0.189	
3500.01	633334	Mid	top	0 mm	NR Band n77 DoD PC2	Ant 1	FFGX7764P4	100	DFT-S-OFDM	QPSK	1	271	12.50	11.35	0.04	1:1	0.002	1.303	0.003	0.000	0.000	
3500.01	633334	Mid	top	0 mm	NR Band n77 DoD PC2	Ant 1	FFGX7764P4	100	DFT-S-OFDM	QPSK	135	138	12.50	11.27	0.09	1:1	0.000	1.327	0.000	0.000	0.000	
3500.01	633334	Mid	bottom	0 mm	NR Band n77 DoD PC2	Ant 1	FFGX7764P4	100	DFT-S-OFDM	QPSK	1	271	12.50	11.35	0.00	1:1	0.491	1.303	0.640	0.144	0.188	
3500.01	633334	Mid	bottom	0 mm	NR Band n77 DoD PC2	Ant 1	FFGX7764P4	100	DFT-S-OFDM	QPSK	135	138	12.50	11.27	-0.03	1:1	0.455	1.327	0.604	0.135	0.179	
3500.01	633334	Mid	right	0 mm	NR Band n77 DoD PC2	Ant 1	FFGX7764P4	100	DFT-S-OFDM	QPSK	1	271	12.50	11.35	-0.15	1:1	0.013	1.303	0.017	0.003	0.004	
3500.01	633334	Mid	right	0 mm	NR Band n77 DoD PC2	Ant 1	FFGX7764P4	100	DFT-S-OFDM	QPSK	135	138	12.50	11.27	0.04	1:1	0.012	1.327	0.016	0.002	0.003	
3500.01	633334	Mid	left	0 mm	NR Band n77 DoD PC2	Ant 1	FFGX7764P4	100	DFT-S-OFDM	QPSK	1	271	12.50	11.35	0.04	1:1	0.291	1.303	0.379	0.080	0.104	
3500.01	633334	Mid	left	0 mm	NR Band n77 DoD PC2	Ant 1	FFGX7764P4	100	DFT-S-OFDM	QPSK	135	138	12.50	11.27	-0.06	1:1	0.259	1.327	0.344	0.070	0.093	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population										Body 1.6 W/kg (mW/g) averaged over 1 gram												

Table 10-82
NR Band n77 DoD PC2 Ant 2a Body SAR

MEASUREMENT RESULTS																									
FREQUENCY		Side	Spacing	Mode	Antenna Config	Serial Number	Bandwidth [MHz]	Waveform	Modulation	RB Size	RB Offset	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.															(W/kg)		(W/kg)	(W/kg)	(W/kg)	
3500.01	633334	Mid	back	0 mm	NR Band n77 DoD PC2	Ant 2a	PDQY9QXYPV	100	DFT-S-OFDM	QPSK	1	271	10.70	10.63	-0.03	1:1	0.715	1.016	0.726	0.226	0.230	
3500.01	633334	Mid	back	0 mm	NR Band n77 DoD PC2	Ant 2a	PDQY9QXYPV	100	DFT-S-OFDM	QPSK	135	0	10.70	10.52	0.03	1:1	0.643	1.042	0.670	0.218	0.227	
3500.01	633334	Mid	back	0 mm	NR Band n77 DoD PC2	Ant 2a	PDQY9QXYPV	100	DFT-S-OFDM	QPSK	270	0	10.70	10.51	0.01	1:1	0.701	1.045	0.733	0.238	0.238	
3500.01	633334	Mid	top	0 mm	NR Band n77 DoD PC2	Ant 2a	PDQY9QXYPV	100	DFT-S-OFDM	QPSK	1	271	10.70	10.63	0.05	1:1	0.007	1.016	0.007	0.001	0.001	
3500.01	633334	Mid	top	0 mm	NR Band n77 DoD PC2	Ant 2a	PDQY9QXYPV	100	DFT-S-OFDM	QPSK	135	0	10.70	10.52	0.02	1:1	0.004	1.042	0.004	0.000	0.000	
3500.01	633334	Mid	bottom	0 mm	NR Band n77 DoD PC2	Ant 2a	PDQY9QXYPV	100	DFT-S-OFDM	QPSK	1	271	10.70	10.63	-0.05	1:1	0.268	1.016	0.272	0.076	0.077	
3500.01	633334	Mid	bottom	0 mm	NR Band n77 DoD PC2	Ant 2a	PDQY9QXYPV	100	DFT-S-OFDM	QPSK	135	0	10.70	10.52	-0.01	1:1	0.282	1.042	0.294	0.081	0.084	
3500.01	633334	Mid	right	0 mm	NR Band n77 DoD PC2	Ant 2a	PDQY9QXYPV	100	DFT-S-OFDM	QPSK	1	271	10.70	10.63	0.01	1:1	0.748	1.016	0.760	0.201	0.204	
3500.01	633334	Mid	right	0 mm	NR Band n77 DoD PC2	Ant 2a	PDQY9QXYPV	100	DFT-S-OFDM	QPSK	135	0	10.70	10.52	0.06	1:1	0.822	1.042	0.857	0.223	0.232	
3500.01	633334	Mid	right	0 mm	NR Band n77 DoD PC2	Ant 2a	PDQY9QXYPV	100	DFT-S-OFDM	QPSK	270	0	10.70	10.51	0.00	1:1	0.803	1.045	0.839	0.216	0.226	
3500.01	633334	Mid	right	0 mm	NR Band n77 DoD PC2	Ant 2a	PDQY9QXYPV	100	CP-OFDM	QPSK	1	1	10.70	10.44	0.02	1:1	0.855	1.062	0.908	0.233	0.247	A28
3500.01	633334	Mid	left	0 mm	NR Band n77 DoD PC2	Ant 2a	PDQY9QXYPV	100	DFT-S-OFDM	QPSK	1	271	10.70	10.63	0.05	1:1	0.003	1.016	0.003	0.000	0.000	
3500.01	633334	Mid	left	0 mm	NR Band n77 DoD PC2	Ant 2a	PDQY9QXYPV	100	DFT-S-OFDM	QPSK	135	0	10.70	10.52	0.06	1:1	0.002	1.042	0.002	0.000	0.000	
3500.01	633334	High	right	0 mm	NR Band n77 DoD PC2	Ant 2a	PDQY9QXYPV	100	CP-OFDM	QPSK	1	1	10.70	10.44	0.00	1:1	0.786	1.062	0.835	0.221	0.235	
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 10-83
NR Band n77 DoD PC2 Ant 3 Body SAR

MEASUREMENT RESULTS																					
FREQUENCY		Side	Spacing	Mode	Antenna Config	Serial Number	Bandwidth [MHz]	Waveform	Modulation	RB Size	RB Offset	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.															(W/kg)		(W/kg)	(W/kg)	(W/kg)	
3500.01	633334	Mid	back	0 mm	NR Band n77 DoD PC2	Ant 3	PDQY9QXYPV	100	DFT-S-OFDM	QPSK	1	1	11.60	11.25	-0.01	1:1	0.462	1.084	0.501	0.128	0.139	
3500.01	633334	Mid	back	0 mm	NR Band n77 DoD PC2	Ant 3	PDQY9QXYPV	100	DFT-S-OFDM	QPSK	135	69	11.60	11.20	0.01	1:1	0.516	1.096	0.566	0.141	0.155	
3500.01	633334	Mid	back	0 mm	NR Band n77 DoD PC2	Ant 3	PDQY9QXYPV	100	DFT-S-OFDM	QPSK	270	0	11.60	10.92	-0.01	1:1	0.520	1.169	0.608	0.143	0.167	
3500.01	633334	Mid	back	0 mm	NR Band n77 DoD PC2	Ant 3	PDQY9QXYPV	100	CP-OFDM	QPSK	1	1	11.60	11.14	0.02	1:1	0.514	1.112	0.572	0.142	0.158	
3500.01	633334	Mid	top	0 mm	NR Band n77 DoD PC2	Ant 3	PDQY9QXYPV	100	DFT-S-OFDM	QPSK	1	1	11.60	11.25	0.01	1:1	0.374	1.084	0.405	0.112	0.121	
3500.01	633334	Mid	top	0 mm	NR Band n77 DoD PC2	Ant 3	PDQY9QXYPV	100	DFT-S-OFDM	QPSK	135	69	11.60	11.20	0.00	1:1	0.366	1.096	0.401	0.106	0.116	
3500.01	633334	Mid	top	0 mm	NR Band n77 DoD PC2	Ant 3	PDQY9QXYPV	100	DFT-S-OFDM	QPSK	270	0	11.60	10.92	-0.02	1:1	0.404	1.169	0.472	0.120	0.140	
3500.01	633334	Mid	bottom	0 mm	NR Band n77 DoD PC2	Ant 3	PDQY9QXYPV	100	DFT-S-OFDM	QPSK	1	1	11.60	11.25	0.07	1:1	0.000	1.084	0.000	0.000	0.000	
3500.01	633334	Mid	bottom	0 mm	NR Band n77 DoD PC2	Ant 3	PDQY9QXYPV	100	DFT-S-OFDM	QPSK	135	69	11.60	11.20	0.08	1:1	0.000	1.096	0.000	0.000	0.000	
3500.01	633334	Mid	right	0 mm	NR Band n77 DoD PC2	Ant 3	PDQY9QXYPV	100	DFT-S-OFDM	QPSK	1	1	11.60	11.25	0.08	1:1	0.065	1.084	0.070	0.020	0.022	
3500.01	633334	Mid	right	0 mm	NR Band n77 DoD PC2	Ant 3	PDQY9QXYPV	100	DFT-S-OFDM	QPSK	135	69	11.60	11.20	0.19	1:1	0.057	1.096	0.062	0.018	0.020	
3500.01	633334	Mid	left	0 mm	NR Band n77 DoD PC2	Ant 3	PDQY9QXYPV	100	DFT-S-OFDM	QPSK	1	1	11.60	11.25	0.20	1:1	0.010	1.084	0.011	0.003	0.003	
3500.01	633334	Mid	left	0 mm	NR Band n77 DoD PC2	Ant 3	PDQY9QXYPV	100	DFT-S-OFDM	QPSK	135	69	11.60	11.20	0.04	1:1	0.017	1.096	0.019	0.005	0.005	
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 10-84
NR Band n77 DoD PC2 Ant 4b Body SAR

MEASUREMENT RESULTS																					
FREQUENCY		Side	Spacing	Mode	Antenna Config	Serial Number	Bandwidth [MHz]	Waveform	Modulation	RB Size	RB Offset	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.															(W/kg)		(W/kg)	(W/kg)	(W/kg)	
3500.01	633334	Mid	back	0 mm	NR Band n77 DoD PC2	Ant 4b	HKPEYY7PF3	100	DFT-S-OFDM	QPSK	1	271	10.90	9.22	-0.02	1:1	0.312	1.472	0.459	0.089	0.131	
3500.01	633334	Mid	back	0 mm	NR Band n77 DoD PC2	Ant 4b	HKPEYY7PF3	100	DFT-S-OFDM	QPSK	135	69	10.90	9.15	-0.04	1:1	0.316	1.496	0.473	0.093	0.139	
3500.01	633334	Mid	top	0 mm	NR Band n77 DoD PC2	Ant 4b	HKPEYY7PF3	100	DFT-S-OFDM	QPSK	1	271	10.90	9.22	0.00	1:1	0.442	1.472	0.651	0.127	0.187	
3500.01	633334	Mid	top	0 mm	NR Band n77 DoD PC2	Ant 4b	HKPEYY7PF3	100	DFT-S-OFDM	QPSK	135	69	10.90	9.15	0.06	1:1	0.444	1.496	0.664	0.130	0.194	
3500.01	633334	Mid	top	0 mm	NR Band n77 DoD PC2	Ant 4b	HKPEYY7PF3	100	CP-OFDM	QPSK	1	1	10.90	9.03	-0.01	1:1	0.476	1.538	0.732	0.140	0.215	
3500.01	633334	Mid	bottom	0 mm	NR Band n77 DoD PC2	Ant 4b	HKPEYY7PF3	100	DFT-S-OFDM	QPSK	1	271	10.90	9.22	0.20	1:1	0.003	1.472	0.004	0.000	0.000	
3500.01	633334	Mid	bottom	0 mm	NR Band n77 DoD PC2	Ant 4b	HKPEYY7PF3	100	DFT-S-OFDM	QPSK	135	69	10.90	9.15	0.06	1:1	0.001	1.496	0.001	0.000	0.000	
3500.01	633334	Mid	right	0 mm	NR Band n77 DoD PC2	Ant 4b	HKPEYY7PF3	100	DFT-S-OFDM	QPSK	1	271	10.90	9.22	0.08	1:1	0.009	1.472	0.013	0.003	0.004	
3500.01	633334	Mid	right	0 mm	NR Band n77 DoD PC2	Ant 4b	HKPEYY7PF3	100	DFT-S-OFDM	QPSK	135	69	10.90	9.15	0.01	1:1	0.005	1.496	0.007	0.000	0.000	
3500.01	633334	Mid	left	0 mm	NR Band n77 DoD PC2	Ant 4b	HKPEYY7PF3	100	DFT-S-OFDM	QPSK	1	271	10.90	9.22	0.01	1:1	0.012	1.472	0.018	0.002	0.003	
3500.01	633334	Mid	left	0 mm	NR Band n77 DoD PC2	Ant 4b	HKPEYY7PF3	100	DFT-S-OFDM	QPSK	135	69	10.90	9.15	-0.19	1:1	0.017	1.496	0.025	0.005	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											

Table 10-85
NR Band n77 C PC2 Ant 1 Body SAR

MEASUREMENT RESULTS																								
FREQUENCY			Side	Spacing	Mode	Antenna Config	Serial Number	Bandwidth [MHz]	Waveform	Modulation	RB Size	RB Offset	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.																(W/kg)		(W/kg)	(W/kg)	(W/kg)	
3750.00	650000	Low	back	0 mm	NR Band n77 PC2	Ant 1	FFGX7764P4	100	DFT-S-OFDM	QPSK	1	271	12.50	10.68	0.03	1:1	0.361	1.521	0.549	0.120	0.183	
3930.00	662000	High	back	0 mm	NR Band n77 PC2	Ant 1	FFGX7764P4	100	DFT-S-OFDM	QPSK	1	137	12.50	10.66	0.01	1:1	0.565	1.528	0.863	0.184	0.281	
3750.00	650000	Low	back	0 mm	NR Band n77 PC2	Ant 1	FFGX7764P4	100	DFT-S-OFDM	QPSK	135	69	12.50	10.57	-0.06	1:1	0.413	1.560	0.644	0.133	0.207	
3930.00	662000	High	back	0 mm	NR Band n77 PC2	Ant 1	FFGX7764P4	100	DFT-S-OFDM	QPSK	135	69	12.50	10.63	0.02	1:1	0.589	1.538	0.906	0.184	0.283	
3930.00	662000	High	back	0 mm	NR Band n77 PC2	Ant 1	FFGX7764P4	100	DFT-S-OFDM	QPSK	270	0	12.50	10.53	0.03	1:1	0.566	1.574	0.891	0.177	0.279	
3930.00	662000	High	back	0 mm	NR Band n77 PC2	Ant 1	FFGX7764P4	100	CP-OFDM	QPSK	1	1	12.50	10.57	0.02	1:1	0.514	1.560	0.802	0.161	0.251	
3930.00	662000	High	top	0 mm	NR Band n77 PC2	Ant 1	FFGX7764P4	100	DFT-S-OFDM	QPSK	1	137	12.50	10.66	0.04	1:1	0.000	1.528	0.000	0.000	0.000	
3930.00	662000	High	top	0 mm	NR Band n77 PC2	Ant 1	FFGX7764P4	100	DFT-S-OFDM	QPSK	135	69	12.50	10.63	0.20	1:1	0.002	1.538	0.003	0.000	0.000	
3750.00	650000	Low	bottom	0 mm	NR Band n77 PC2	Ant 1	FFGX7764P4	100	DFT-S-OFDM	QPSK	1	271	12.50	10.68	0.07	1:1	0.270	1.521	0.411	0.076	0.116	
3930.00	662000	High	bottom	0 mm	NR Band n77 PC2	Ant 1	FFGX7764P4	100	DFT-S-OFDM	QPSK	1	137	12.50	10.66	0.00	1:1	0.434	1.528	0.663	0.119	0.182	
3750.00	650000	Low	bottom	0 mm	NR Band n77 PC2	Ant 1	FFGX7764P4	100	DFT-S-OFDM	QPSK	135	69	12.50	10.57	0.00	1:1	0.269	1.560	0.420	0.075	0.117	
3930.00	662000	High	bottom	0 mm	NR Band n77 PC2	Ant 1	FFGX7764P4	100	DFT-S-OFDM	QPSK	135	69	12.50	10.63	0.00	1:1	0.410	1.538	0.631	0.113	0.174	
3930.00	662000	High	bottom	0 mm	NR Band n77 PC2	Ant 1	FFGX7764P4	100	DFT-S-OFDM	QPSK	270	0	12.50	10.53	-0.02	1:1	0.400	1.574	0.630	0.114	0.179	
3930.00	662000	High	right	0 mm	NR Band n77 PC2	Ant 1	FFGX7764P4	100	DFT-S-OFDM	QPSK	1	137	12.50	10.66	0.04	1:1	0.010	1.528	0.015	0.003	0.005	
3930.00	662000	High	right	0 mm	NR Band n77 PC2	Ant 1	FFGX7764P4	100	DFT-S-OFDM	QPSK	135	69	12.50	10.63	0.09	1:1	0.008	1.538	0.012	0.002	0.003	
3750.00	650000	High	left	0 mm	NR Band n77 PC2	Ant 1	P3K2L17CM6	100	DFT-S-OFDM	QPSK	1	271	12.50	10.68	-0.02	1:1	0.191	1.521	0.291	0.051	0.078	
3930.00	662000	High	left	0 mm	NR Band n77 PC2	Ant 1	FFGX7764P4	100	DFT-S-OFDM	QPSK	1	137	12.50	10.66	-0.08	1:1	0.337	1.528	0.515	0.087	0.133	
3750.00	650000	High	left	0 mm	NR Band n77 PC2	Ant 1	P3K2L17CM6	100	DFT-S-OFDM	QPSK	135	69	12.50	10.57	0.09	1:1	0.183	1.560	0.285	0.049	0.076	
3930.00	662000	High	left	0 mm	NR Band n77 PC2	Ant 1	FFGX7764P4	100	DFT-S-OFDM	QPSK	135	69	12.50	10.63	-0.04	1:1	0.308	1.538	0.474	0.081	0.125	
3930.00	662000	High	left	0 mm	NR Band n77 PC2	Ant 1	P3K2L17CM6	100	DFT-S-OFDM	QPSK	270	0	12.50	10.53	-0.06	1:1	0.303	1.574	0.477	0.081	0.127	
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
NR Band n77 C PC2 Ant 2a Body SAR

MEASUREMENT RESULTS																							
FREQUENCY			Side	Spacing	Mode	Antenna Config	Serial Number	Bandwidth [MHz]	Waveform	Modulation	RB Size	RB Offset	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.																(W/kg)		(W/kg)	(W/kg)	(W/kg)	
3750.00	650000	Low	back	0 mm	NR Band n77 PC2	Ant 2a	PDQY9QXYPV	100	DFT-S-OFDM	QPSK	1	271	11.10	10.65	0.03	1:1	0.550	1.109	0.610	0.170	0.189	
3930.00	662000	High	back	0 mm	NR Band n77 PC2	Ant 2a	PDQY9QXYPV	100	DFT-S-OFDM	QPSK	1	1	11.10	10.64	-0.03	1:1	0.628	1.112	0.698	0.188	0.209	
3750.00	650000	Low	back	0 mm	NR Band n77 PC2	Ant 2a	PDQY9QXYPV	100	DFT-S-OFDM	QPSK	135	69	11.10	10.60	0.00	1:1	0.618	1.122	0.693	0.189	0.212	
3930.00	662000	High	back	0 mm	NR Band n77 PC2	Ant 2a	PDQY9QXYPV	100	DFT-S-OFDM	QPSK	135	0	11.10	10.56	-0.01	1:1	0.650	1.132	0.736	0.194	0.220	
3750.00	650000	Low	back	0 mm	NR Band n77 PC2	Ant 2a	PDQY9QXYPV	100	DFT-S-OFDM	QPSK	270	0	11.10	10.55	-0.04	1:1	0.620	1.135	0.704	0.188	0.213	
3750.00	650000	Low	top	0 mm	NR Band n77 PC2	Ant 2a	PDQY9QXYPV	100	DFT-S-OFDM	QPSK	1	271	11.10	10.65	0.06	1:1	0.009	1.109	0.010	0.002	0.002	
3750.00	650000	Low	top	0 mm	NR Band n77 PC2	Ant 2a	PDQY9QXYPV	100	DFT-S-OFDM	QPSK	135	69	11.10	10.60	0.01	1:1	0.007	1.122	0.008	0.001	0.001	
3750.00	650000	Low	bottom	0 mm	NR Band n77 PC2	Ant 2a	PDQY9QXYPV	100	DFT-S-OFDM	QPSK	1	271	11.10	10.65	-0.05	1:1	0.191	1.109	0.212	0.053	0.059	
3750.00	650000	Low	bottom	0 mm	NR Band n77 PC2	Ant 2a	PDQY9QXYPV	100	DFT-S-OFDM	QPSK	135	69	11.10	10.60	-0.02	1:1	0.188	1.122	0.211	0.052	0.058	
3750.00	650000	Low	right	0 mm	NR Band n77 PC2	Ant 2a	PDQY9QXYPV	100	DFT-S-OFDM	QPSK	1	271	11.10	10.65	-0.01	1:1	0.811	1.109	0.899	0.207	0.230	
3930.00	662000	High	right	0 mm	NR Band n77 PC2	Ant 2a	PDQY9QXYPV	100	DFT-S-OFDM	QPSK	1	1	11.10	10.64	0.00	1:1	0.786	1.112	0.874	0.206	0.229	
3750.00	650000	Low	right	0 mm	NR Band n77 PC2	Ant 2a	PDQY9QXYPV	100	DFT-S-OFDM	QPSK	135	69	11.10	10.60	0.00	1:1	0.737	1.122	0.827	0.194	0.218	
3930.00	662000	High	right	0 mm	NR Band n77 PC2	Ant 2a	PDQY9QXYPV	100	DFT-S-OFDM	QPSK	135	0	11.10	10.56	-0.01	1:1	0.838	1.132	0.946	0.214	0.242	A29
3750.00	650000	Low	right	0 mm	NR Band n77 PC2	Ant 2a	PDQY9QXYPV	100	DFT-S-OFDM	QPSK	270	0	11.10	10.55	-0.04	1:1	0.741	1.135	0.841	0.195	0.221	
3750.00	650000	Low	right	0 mm	NR Band n77 PC2	Ant 2a	PDQY9QXYPV	100	CP-OFDM	QPSK	1	1	11.10	10.66	0.00	1:1	0.707	1.107	0.783	0.187	0.207	
3750.00	650000	Low	left	0 mm	NR Band n77 PC2	Ant 2a	PDQY9QXYPV	100	DFT-S-OFDM	QPSK	1	271	11.10	10.65	0.08	1:1	0.003	1.109	0.003	0.000	0.000	
3750.00	650000	Low	left	0 mm	NR Band n77 PC2	Ant 2a	PDQY9QXYPV	100	DFT-S-OFDM	QPSK	135	69	11.10	10.60	0.20	1:1	0.001	1.122	0.001	0.000	0.000	
3930.00	662000	High	right	0 mm	NR Band n77 PC2	Ant 2a	PDQY9QXYPV	100	DFT-S-OFDM	QPSK	135	0	11.10	10.56	0.01	1:1	0.798	1.132	0.903	0.210	0.238	
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 10-87
NR Band n77 C PC2 Ant 3 Body SAR

MEASUREMENT RESULTS																							
FREQUENCY			Side	Spacing	Mode	Antenna Config	Serial Number	Bandwidth [MHz]	Waveform	Modulation	RB Size	RB Offset	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.																(W/kg)		(W/kg)	(W/kg)	(W/kg)	
3750.00	650000	Low	back	0 mm	NR Band n77 PC2	Ant 3	PDQY9QXYPV	100	DFT-S-OFDM	QPSK	1	1	11.60	11.18	-0.02	1:1	0.816	1.102	0.899	0.224	0.247	
3930.00	662000	High	back	0 mm	NR Band n77 PC2	Ant 3	PDQY9QXYPV	100	DFT-S-OFDM	QPSK	1	137	11.60	10.93	0.01	1:1	0.766	1.167	0.894	0.185	0.216	
3750.00	650000	Low	back	0 mm	NR Band n77 PC2	Ant 3	PDQY9QXYPV	100	DFT-S-OFDM	QPSK	135	0	11.60	10.94	0.00	1:1	0.733	1.164	0.853	0.202	0.235	
3930.00	662000	High	back	0 mm	NR Band n77 PC2	Ant 3	PDQY9QXYPV	100	DFT-S-OFDM	QPSK	135	0	11.60	10.86	-0.01	1:1	0.706	1.186	0.837	0.174	0.206	
3930.00	662000	High	back	0 mm	NR Band n77 PC2	Ant 3	PDQY9QXYPV	100	DFT-S-OFDM	QPSK	270	0	11.60	10.70	0.01	1:1	0.740	1.230	0.910	0.180	0.221	
3750.00	650000	Low	back	0 mm	NR Band n77 PC2	Ant 3	PDQY9QXYPV	100	CP-OFDM	QPSK	1	1	11.60	11.16	-0.02	1:1	0.738	1.107	0.817	0.206	0.228	
3750.00	650000	Low	top	0 mm	NR Band n77 PC2	Ant 3	PDQY9QXYPV	100	DFT-S-OFDM	QPSK	1	1	11.60	11.18	-0.01	1:1	0.330	1.102	0.364	0.086	0.095	
3930.00	662000	High	top	0 mm	NR Band n77 PC2	Ant 3	PDQY9QXYPV	100	DFT-S-OFDM	QPSK	1	137	11.60	10.93	-0.01	1:1	0.569	1.167	0.664	0.159	0.186	
3750.00	650000	Low	top	0 mm	NR Band n77 PC2	Ant 3	PDQY9QXYPV	100	DFT-S-OFDM	QPSK	135	0	11.60	10.94	-0.01	1:1	0.340	1.164	0.396	0.089	0.104	
3930.00	662000	High	top	0 mm	NR Band n77 PC2	Ant 3	PDQY9QXYPV	100	DFT-S-OFDM	QPSK	135	0	11.60	10.86	-0.03	1:1	0.566	1.186	0.671	0.159	0.189	
3930.00	662000	High	top	0 mm	NR Band n77 PC2	Ant 3	PDQY9QXYPV	100	DFT-S-OFDM	QPSK	270	0	11.60	10.70	0.08	1:1	0.560	1.230	0.689	0.157	0.193	
3750.00	650000	Low	bottom	0 mm	NR Band n77 PC2	Ant 3	PDQY9QXYPV	100	DFT-S-OFDM	QPSK	1	1	11.60	11.18	0.20	1:1	0.002	1.102	0.002	0.000	0.000	
3750.00	650000	Low	bottom	0 mm	NR Band n77 PC2	Ant 3	PDQY9QXYPV	100	DFT-S-OFDM	QPSK	135	0	11.60	10.94	0.02	1:1	0.000	1.164	0.000	0.000	0.000	
3750.00	650000	Low	right	0 mm	NR Band n77 PC2	Ant 3	PDQY9QXYPV	100	DFT-S-OFDM	QPSK	1	1	11.60	11.18	-0.03	1:1	0.063	1.102	0.069	0.018	0.020	
3750.00	650000	Low	right	0 mm	NR Band n77 PC2	Ant 3	PDQY9QXYPV	100	DFT-S-OFDM	QPSK	135	0	11.60	10.94	0.01	1:1	0.074	1.164	0.086	0.019	0.022	
3750.00	650000	Low	left	0 mm	NR Band n77 PC2	Ant 3	PDQY9QXYPV	100	DFT-S-OFDM	QPSK	1	1	11.60	11.18	0.20	1:1	0.019	1.102	0.021	0.005	0.006	
3750.00	650000	Low	left	0 mm	NR Band n77 PC2	Ant 3	PDQY9QXYPV	100	DFT-S-OFDM	QPSK	135	0	11.60	10.94	0.03	1:1	0.018	1.164	0.021	0.004	0.005	
3750.00	650000	High	back	0 mm	NR Band n77 PC2	Ant 3	PDQY9QXYPV	100	DFT-S-OFDM	QPSK	1	1	11.60	11.18	-0.01	1:1	0.757	1.102	0.834	0.213	0.235	
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 10-88
NR Band n77 C PC2 Ant 4b Body SAR

MEASUREMENT RESULTS																								
FREQUENCY		Side	Spacing	Mode	Antenna Config.	Serial Number	Bandwidth [MHz]	Waveform	Modulation	RB Size	RB Offset	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.															(W/kg)		(W/kg)	(W/kg)	(W/kg)	
3750.00	650000	Low	back	0 mm	NR Band n77 PC2	Ant 4b	PDQYBQXYPV	100	DFT-S-OFDM	QPSK	1	1	10.90	10.11	-0.03	1:1	0.466	1.199	0.559	0.130	0.156	
3930.00	662000	High	back	0 mm	NR Band n77 PC2	Ant 4b	PDQYBQXYPV	100	DFT-S-OFDM	QPSK	1	137	10.90	9.94	0.01	1:1	0.529	1.247	0.660	0.146	0.182	
3750.00	650000	Low	back	0 mm	NR Band n77 PC2	Ant 4b	PDQYBQXYPV	100	DFT-S-OFDM	QPSK	135	0	10.90	10.14	0.07	1:1	0.511	1.191	0.609	0.140	0.167	
3930.00	662000	High	back	0 mm	NR Band n77 PC2	Ant 4b	PDQYBQXYPV	100	DFT-S-OFDM	QPSK	135	69	10.90	10.11	-0.03	1:1	0.514	1.199	0.616	0.141	0.169	
3750.00	650000	Low	back	0 mm	NR Band n77 PC2	Ant 4b	PDQYBQXYPV	100	DFT-S-OFDM	QPSK	270	0	10.90	10.09	0.02	1:1	0.505	1.205	0.609	0.141	0.170	
3750.00	650000	Low	top	0 mm	NR Band n77 PC2	Ant 4b	PDQYBQXYPV	100	DFT-S-OFDM	QPSK	1	1	10.90	10.11	0.03	1:1	0.704	1.199	0.844	0.201	0.241	
3930.00	662000	High	top	0 mm	NR Band n77 PC2	Ant 4b	PDQYBQXYPV	100	DFT-S-OFDM	QPSK	1	137	10.90	9.94	0.00	1:1	0.733	1.247	0.914	0.204	0.254	
3750.00	650000	Low	top	0 mm	NR Band n77 PC2	Ant 4b	PDQYBQXYPV	100	DFT-S-OFDM	QPSK	135	0	10.90	10.14	-0.02	1:1	0.708	1.191	0.843	0.201	0.239	
3930.00	662000	High	top	0 mm	NR Band n77 PC2	Ant 4b	PDQYBQXYPV	100	DFT-S-OFDM	QPSK	135	69	10.90	10.11	-0.03	1:1	0.732	1.199	0.878	0.203	0.243	
3750.00	650000	Low	top	0 mm	NR Band n77 PC2	Ant 4b	PDQYBQXYPV	100	DFT-S-OFDM	QPSK	270	0	10.90	10.09	-0.01	1:1	0.710	1.205	0.856	0.201	0.242	
3750.00	650000	Low	top	0 mm	NR Band n77 PC2	Ant 4b	PDQYBQXYPV	100	CP-OFDM	QPSK	1	1	10.90	9.92	0.00	1:1	0.664	1.253	0.832	0.189	0.237	
3750.00	650000	Low	bottom	0 mm	NR Band n77 PC2	Ant 4b	PDQYBQXYPV	100	DFT-S-OFDM	QPSK	1	1	10.90	10.11	0.20	1:1	0.000	1.199	0.000	0.000	0.000	
3750.00	650000	Low	bottom	0 mm	NR Band n77 PC2	Ant 4b	PDQYBQXYPV	100	DFT-S-OFDM	QPSK	135	0	10.90	10.14	0.01	1:1	0.002	1.191	0.002	0.000	0.000	
3750.00	650000	Low	right	0 mm	NR Band n77 PC2	Ant 4b	PDQYBQXYPV	100	DFT-S-OFDM	QPSK	1	1	10.90	10.11	0.01	1:1	0.009	1.199	0.011	0.002	0.002	
3750.00	650000	Low	right	0 mm	NR Band n77 PC2	Ant 4b	PDQYBQXYPV	100	DFT-S-OFDM	QPSK	135	0	10.90	10.14	0.05	1:1	0.013	1.191	0.015	0.004	0.005	
3750.00	650000	Low	left	0 mm	NR Band n77 PC2	Ant 4b	PDQYBQXYPV	100	DFT-S-OFDM	QPSK	1	1	10.90	10.11	0.00	1:1	0.019	1.199	0.023	0.005	0.006	
3750.00	650000	Low	left	0 mm	NR Band n77 PC2	Ant 4b	PDQYBQXYPV	100	DFT-S-OFDM	QPSK	135	0	10.90	10.14	0.04	1:1	0.019	1.191	0.023	0.005	0.006	
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 10-89
2.4 GHz WLAN Ant 2a Body SAR

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Service	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Spacing	Antenna Config.	Variant	Device Serial Number	Data Rate (Mbps)	Side	Duty Cycle (%)	SAR (1g)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.														(W/kg)			(W/kg)	(W/kg)	(W/kg)	
2412	1	802.11b	DSSS	22	13.00	11.06	-0.02	0 mm	Ant 2a	V2	WX9QMXTQ70	1	back	99.5	0.641	1.563	1.005	1.007	0.240	0.377	
2437	6	802.11b	DSSS	22	13.00	11.26	-0.01	0 mm	Ant 2a	V2	WX9QMXTQ70	1	back	99.5	0.628	1.493	1.005	0.942	0.246	0.369	
2462	11	802.11b	DSSS	22	13.00	11.25	0.01	0 mm	Ant 2a	V2	WX9QMXTQ70	1	back	99.5	0.740	1.496	1.005	1.113	0.270	0.406	
2462	11	802.11b	DSSS	22	13.00	11.11	0.00	0 mm	Ant 2a	V1	P142NVH3X4	1	back	99.5	0.700	1.545	1.005	1.087	0.253	0.393	
2437	6	802.11b	DSSS	22	13.00	11.26	-0.07	0 mm	Ant 2a	V2	WX9QMXTQ70	1	top	99.5	0.008	1.493	1.005	0.012	0.003	0.005	
2437	6	802.11b	DSSS	22	13.00	11.26	0.02	0 mm	Ant 2a	V2	WX9QMXTQ70	1	bottom	99.5	0.335	1.493	1.005	0.503	0.100	0.150	
2412	1	802.11b	DSSS	22	13.00	11.06	0.00	0 mm	Ant 2a	V2	WX9QMXTQ70	1	right	99.5	0.584	1.563	1.005	0.917	0.197	0.309	
2437	6	802.11b	DSSS	22	13.00	11.26	-0.01	0 mm	Ant 2a	V2	WX9QMXTQ70	1	right	99.5	0.545	1.493	1.005	0.818	0.184	0.276	
2462	11	802.11b	DSSS	22	13.00	11.25	0.20	0 mm	Ant 2a	V2	WX9QMXTQ70	1	right	99.5	0.667	1.496	1.005	1.003	0.220	0.331	
2437	6	802.11b	DSSS	22	13.00	11.26	0.10	0 mm	Ant 2a	V2	WX9QMXTQ70	1	left	99.5	0.000	1.493	1.005	0.000	0.000	0.000	
2462	11	802.11b	DSSS	22	9.50	8.41	-0.17	0 mm	Ant 2a	V2	WX9QMXTQ70	1	back	99.5	0.415	1.285	1.005	0.536	0.155	0.200	
2462	11	802.11b	DSSS	22	9.50	8.41	0.01	0 mm	Ant 2a	V2	WX9QMXTQ70	1	bottom	99.5	0.174	1.285	1.005	0.225	0.050	0.065	
2462	11	802.11b	DSSS	22	9.50	8.41	-0.05	0 mm	Ant 2a	V2	WX9QMXTQ70	1	right	99.5	0.364	1.285	1.005	0.470	0.116	0.150	
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 10-90
2.4 GHz WLAN Ant 4a Body SAR

MEASUREMENT RESULTS																				
FREQUENCY		Mode	Service	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Spacing	Antenna Config.	Variant	Device Serial Number	Data Rate (Mbps)	Side	Duty Cycle (%)	SAR (1g)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.														(W/kg)			(W/kg)	(W/kg)	(W/kg)	
2412	1	802.11b	DSSS	22	12.50	11.43	0.03	0 mm	Ant 4a	V2	WX9QMXTQ70	1	back	99.5	0.805	1.279	1.005	1.035	0.304	0.391	A30
2437	6	802.11b	DSSS	22	12.50	11.63	-0.02	0 mm	Ant 4a	V2	WX9QMXTQ70	1	back	99.5	0.733	1.222	1.005	0.900	0.274	0.337	
2462	11	802.11b	DSSS	22	12.50	11.58	0.01	0 mm	Ant 4a	V2	WX9QMXTQ70	1	back	99.5	0.791	1.236	1.005	0.983	0.307	0.381	
2412	1	802.11b	DSSS	22	12.50	11.50	0.01	0 mm	Ant 4a	V1	WX7CMHHYXQ	1	back	99.5	0.685	1.259	1.005	0.867	0.257	0.325	
2437	6	802.11b	DSSS	22	12.50	11.63	0.06	0 mm	Ant 4a	V2	WX9QMXTQ70	1	top	99.5	0.223	1.222	1.005	0.274	0.065	0.080	
2437	6	802.11b	DSSS	22	12.50	11.63	0.02	0 mm	Ant 4a	V2	WX9QMXTQ70	1	bottom	99.5	0.003	1.222	1.005	0.004	0.000	0.000	
2437	6	802.11b	DSSS	22	12.50	11.63	0.11	0 mm	Ant 4a	V2	WX9QMXTQ70	1	right	99.5	0.000	1.222	1.005	0.000	0.000	0.000	
2437	6	802.11b	DSSS	22	12.50	11.63	0.03	0 mm	Ant 4a	V2	WX9QMXTQ70	1	left	99.5	0.515	1.222	1.005	0.632	0.175	0.215	
2462	11	802.11b	DSSS	22	7.50	7.10	0.00	0 mm	Ant 4a	V2	WX9QMXTQ70	1	back	99.5	0.360	1.096	1.005	0.397	0.130	0.143	
2462	11	802.11b	DSSS	22	7.50	7.10	-0.04	0 mm	Ant 4a	V2	WX9QMXTQ70	1	top	99.5	0.116	1.096	1.005	0.128	0.034	0.037	
2462	11	802.11b	DSSS	22	7.50	7.10	-0.03	0 mm	Ant 4a	V2	WX9QMXTQ70	1	left	99.5	0.297	1.096	1.005	0.327	0.098	0.108	
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 10-91
5 GHz WLAN Ant 4a Body SAR

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Service	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Spacing	Antenna Config.	Variant	Device Serial Number	Data Rate (Mbps)	Side	Duty Cycle (%)	SAR (1g)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.														(W/kg)			(W/kg)	(W/kg)	(W/kg)	
5210	42	802.11ac	OFDM	80	9.25	8.30	0.09	0 mm	Ant 4a	V2	QY4T00NCF0	29.3	back	95.4	0.795	1.245	1.048	1.037	0.189	0.247	
5210	42	802.11ac	OFDM	80	9.25	8.20	0.06	0 mm	Ant 4a	V1	L6KXK3395G	29.3	back	95.4	0.657	1.274	1.048	0.877	0.158	0.211	
5210	42	802.11ac	OFDM	80	9.25	8.30	0.02	0 mm	Ant 4a	V2	QY4T00NCF0	29.3	top	95.4	0.132	1.245	1.048	0.172	0.032	0.042	
5210	42	802.11ac	OFDM	80	9.25	8.30	0.13	0 mm	Ant 4a	V2	QY4T00NCF0	29.3	bottom	95.4	0.000	1.245	1.048	0.000	0.000	0.000	
5210	42	802.11ac	OFDM	80	9.25	8.30	0.02	0 mm	Ant 4a	V2	QY4T00NCF0	29.3	right	95.4	0.000	1.245	1.048	0.000	0.000	0.000	
5210	42	802.11ac	OFDM	80	9.25	8.30	0.03	0 mm	Ant 4a	V2	QY4T00NCF0	29.3	left	95.4	0.755	1.245	1.048	0.985	0.167	0.218	
5210	42	802.11ac	OFDM	80	3.75	3.03	-0.17	0 mm	Ant 4a	V2	QY4T00NCF0	29.3	back	95.4	0.235	1.180	1.048	0.291	0.052	0.064	
5210	42	802.11ac	OFDM	80	3.75	3.03	-0.21	0 mm	Ant 4a	V2	QY4T00NCF0	29.3	left	95.4	0.235	1.180	1.048	0.291	0.048	0.059	
5530	106	802.11ac	OFDM	80	9.25	8.21	-0.02	0 mm	Ant 4a	V2	QY4T00NCF0	29.3	back	95.4	0.744	1.271	1.048	0.991	0.175	0.233	
5610	122	802.11ac	OFDM	80	9.25	8.28	-0.04	0 mm	Ant 4a	V2	QY4T00NCF0	29.3	back	95.4	0.819	1.250	1.048	1.073	0.188	0.246	
5690	138	802.11ac	OFDM	80	9.25	8.23	-0.01	0 mm	Ant 4a	V2	QY4T00NCF0	29.3	back	95.4	0.844	1.265	1.048	1.119	0.191	0.253	
5690	138	802.11ac	OFDM	80	9.25	8.34	-0.02	0 mm	Ant 4a	V1	L6KXK3395G	29.3	back	95.4	0.892	1.233	1.048	1.153	0.205	0.265	
5690	138	802.11ac	OFDM	80	9.25	8.34	-0.02	0 mm	Ant 4a	V1	L6KXK3395G	29.3	top	95.4	0.067	1.233	1.048	0.087	0.013	0.017	
5690	138	802.11ac	OFDM	80	9.25	8.34	-0.10	0 mm	Ant 4a	V1	L6KXK3395G	29.3	bottom	95.4	0.000	1.233	1.048	0.000	0.000	0.000	
5690	138	802.11ac	OFDM	80	9.25	8.34	-0.04	0 mm	Ant 4a	V1	L6KXK3395G	29.3	right	95.4	0.000	1.233	1.048	0.000	0.000	0.000	
5530	106	802.11ac	OFDM	80	9.25	8.27	-0.02	0 mm	Ant 4a	V1	L6KXK3395G	29.3	left	95.4	0.649	1.253	1.048	0.852	0.137	0.180	
5610	122	802.11ac	OFDM	80	9.25	8.26	-0.02	0 mm	Ant 4a	V1	L6KXK3395G	29.3	left	95.4	0.737	1.256	1.048	0.970	0.155	0.204	
5690	138	802.11ac	OFDM	80	9.25	8.34	-0.21	0 mm	Ant 4a	V1	L6KXK3395G	29.3	left	95.4	0.738	1.233	1.048	0.954	0.155	0.200	
5610	122	802.11ac	OFDM	80	3.75	3.02	-0.05	0 mm	Ant 4a	V1	L6KXK3395G	29.3	back	95.4	0.259	1.183	1.048	0.321	0.055	0.068	
5610	122	802.11ac	OFDM	80	3.75	3.02	-0.04	0 mm	Ant 4a	V1	L6KXK3395G	29.3	left	95.4	0.219	1.183	1.048	0.272	0.045	0.056	
5775	155	802.11ac	OFDM	80	9.00	7.41	-0.13	0 mm	Ant 4a	V1	P142NVH3X4	29.3	back	95.4	0.690	1.442	1.048	1.043	0.150	0.227	
5775	155	802.11ac	OFDM	80	9.00	7.56	0.01	0 mm	Ant 4a	V2	QY4T00NCF0	29.3	back	95.4	0.658	1.393	1.048	0.961	0.140	0.204	
5775	155	802.11ac	OFDM	80	9.00	7.41	0.04	0 mm	Ant 4a	V1	P142NVH3X4	29.3	top	95.4	0.050	1.442	1.048	0.076	0.007	0.011	
5775	155	802.11ac	OFDM	80	9.00	7.41	-0.05	0 mm	Ant 4a	V1	P142NVH3X4	29.3	bottom	95.4	0.000	1.442	1.048	0.000	0.000	0.000	
5775	155	802.11ac	OFDM	80	9.00	7.41	0.06	0 mm	Ant 4a	V1	P142NVH3X4	29.3	right	95.4	0.000	1.442	1.048	0.000	0.000	0.000	
5775	155	802.11ac	OFDM	80	9.00	7.41	-0.01	0 mm	Ant 4a	V1	P142NVH3X4	29.3	left	95.4	0.509	1.442	1.048	0.769	0.104	0.157	
5775	155	802.11ac	OFDM	80	3.50	2.96	-0.11	0 mm	Ant 4a	V1	P142NVH3X4	29.3	back	95.4	0.279	1.132	1.048	0.331	0.058	0.069	
5775	155	802.11ac	OFDM	80	3.50	2.96	0.02	0 mm	Ant 4a	V1	P142NVH3X4	29.3	left	95.4	0.214	1.132	1.048	0.254	0.041	0.049	
5610	122	802.11ac	OFDM	80	15.50	14.45	0.02	0 mm	Ant 5b	V2	QY4T00NCF0	29.3	right	95.4	0.896	1.274	1.048	1.066	0.293	0.349	
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 10-92
5 GHz WLAN Ant 5b Body SAR

MEASUREMENT RESULTS																				
FREQUENCY		Mode	Service	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Spacing	Antenna Config.	Variant	Device Serial Number	Data Rate (Mbps)	Side	Duty Cycle (%)	SAR (1g)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.														(W/kg)			(W/kg)	(W/kg)	(W/kg)	
5270	54	802.11n	OFDM	40	16.50	15.71	0.00	0 mm	Ant 5b	V1	LCL639YM62	13.5	back	97.9	0.139	1.199	1.021	0.170	0.057	0.070	
5270	54	802.11n	OFDM	40	16.50	15.71	-0.02	0 mm	Ant 5b	V1	LCL639YM62	13.5	top	97.9	0.000	1.199	1.021	0.000	0.000	0.000	
5270	54	802.11n	OFDM	40	16.50	15.71	0.18	0 mm	Ant 5b	V1	LCL639YM62	13.5	bottom	97.9	0.024	1.199	1.021	0.029	0.006	0.007	
5270	54	802.11n	OFDM	40	16.50	15.71	0.12	0 mm	Ant 5b	V1	LCL639YM62	13.5	right	97.9	0.899	1.199	1.021	1.101	0.270	0.331	
5310	62	802.11n	OFDM	40	16.00	14.35	-0.03	0 mm	Ant 5b	V1	LCL639YM62	13.5	right	97.9	0.667	1.462	1.021	0.996	0.202	0.302	
5270	54	802.11n	OFDM	40	16.50	15.55	-0.03	0 mm	Ant 5b	V2	FFGX7764PA	13.5	right	97.9	0.865	1.245	1.021	1.100	0.269	0.342	
5270	54	802.11n	OFDM	40	16.50	15.71	0.20	0 mm	Ant 5b	V1	LCL639YM62	13.5	left	97.9	0.002	1.199	1.021	0.002	0.000	0.000	
5290	58	802.11ac	OFDM	80	12.50	11.90	0.02	0 mm	Ant 5b	V1	LCL639YM62	29.3	back	95.4	0.052	1.148	1.048	0.063	0.020	0.024	
5290	58	802.11ac	OFDM	80	12.50	11.90	0.02	0 mm	Ant 5b	V1	LCL639YM62	29.3	right	95.4	0.373	1.148	1.048	0.449	0.112	0.135	
5610	122	802.11ac	OFDM	80	15.00	14.50	-0.13	0 mm	Ant 5b	V1	P142NVH3X4	29.3	back	95.4	0.123	1.122	1.048	0.145	0.047	0.055	
5610	122	802.11ac	OFDM	80	15.00	14.50	-0.15	0 mm	Ant 5b	V1	P142NVH3X4	29.3	top	95.4	0.000	1.122	1.048	0.000	0.000	0.000	
5610	122	802.11ac	OFDM	80	15.00	14.50	0.18	0 mm	Ant 5b	V1	P142NVH3X4	29.3	bottom	95.4	0.007	1.122	1.048	0.008	0.000	0.000	
5530	106	802.11ac	OFDM	80	14.50	12.61	0.01	0 mm	Ant 5b	V2	QY4T00NCF0	29.3	right	95.4	0.684	1.545	1.048	1.108	0.215	0.348	
5610	122	802.11ac	OFDM	80	15.00	14.45	0.04	0 mm	Ant 5b	V2	QY4T00NCF0	29.3	right	95.4	0.955	1.135	1.048	1.136	0.301	0.358	A31
5690	138	802.11ac	OFDM	80	15.00	14.26	-0.09	0 mm	Ant 5b	V2	P142NVH3X4	29.3	right	95.4	0.613	1.186	1.048	0.762	0.193	0.240	
5610	122	802.11ac	OFDM	80	15.00	14.50	-0.08	0 mm	Ant 5b	V1	P142NVH3X4	29.3	right	95.4	0.842	1.122	1.048	0.990	0.254	0.299	
5610	122	802.11ac	OFDM	80	15.00	14.50	0.20	0 mm	Ant 5b	V1	P142NVH3X4	29.3	left	95.4	0.015	1.122	1.048	0.018	0.004	0.005	
5610	122	802.11ac	OFDM	80	11.00	10.01	0.03	0 mm	Ant 5b	V2	QY4T00NCF0	29.3	back	95.4	0.032	1.256	1.048	0.042	0.008	0.011	
5610	122	802.11ac	OFDM	80	11.00	10.01	0.18	0 mm	Ant 5b	V2	QY4T00NCF0	29.3	right	95.4	0.286	1.256	1.048	0.376	0.087	0.115	
5775	155	802.11ac	OFDM	80	15.50	15.10	0.13	0 mm	Ant 5b	V2	QY4T00NCF0	29.3	back	95.4	0.120	1.096	1.048	0.138	0.045	0.052	
5775	155	802.11ac	OFDM	80	15.50	15.10	0.01	0 mm	Ant 5b	V2	QY4T00NCF0	29.3	top	95.4	0.000	1.096	1.048	0.000	0.000	0.000	
5775	155	802.11ac	OFDM	80	15.50	15.10	0.11	0 mm	Ant 5b	V2	QY4T00NCF0	29.3	bottom	95.4	0.008	1.096	1.048	0.009	0.000	0.000	
5775	155	802.11ac	OFDM	80	15.50	15.10	-0.04	0 mm	Ant 5b	V2	QY4T00NCF0	29.3	right	95.4	0.897	1.096	1.048	1.030	0.286	0.329	
5775	155	802.11ac	OFDM	80	15.50	14.93	0.02	0 mm	Ant 5b	V1	P142NVH3X4	29.3	right	95.4	0.825	1.140	1.048	0.986	0.256	0.306	
5775	155	802.11ac	OFDM	80	15.50	15.10	0.16	0 mm	Ant 5b	V2	QY4T00NCF0	29.3	left	95.4	0.000	1.096	1.048	0.000	0.000	0.000	
5775	155	802.11ac	OFDM	80	11.50	10.44	-0.01	0 mm	Ant 5b	V2	QY4T00NCF0	29.3	back	95.4	0.037	1.276	1.048	0.049	0.011	0.015	
5775	155	802.11ac	OFDM	80	11.50	10.44	0.06	0 mm	Ant 5b	V2	QY4T00NCF0	29.3	right	95.4	0.299	1.276	1.048	0.400	0.091	0.122	
5610	122	802.11ac	OFDM	80	15.50	14.45	0.02	0 mm	Ant 5b	V2	QY4T00NCF0	29.3	right	95.4	0.896	1.274	1.048	1.066	0.293	0.349	
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 10-93
Bluetooth Ant 2a Body SAR

MEASUREMENT RESULTS																				
FREQUENCY		Mode	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Spacing	Antenna Config.	Variant	Device Serial Number	Data Rate (Mbps)	Side	Duty Cycle (%)	SAR (1g)	Scaling Factor (Cond Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
MHz													(W/kg)			(W/kg)	(W/kg)	(W/kg)	
2402	0	Bluetooth	13.00	11.58	0.01	0 mm	Ant 2a	V2	FFGX7764PA	1	back	77	0.538	1.387	1.006	0.751	0.213	0.297	
2441	39	Bluetooth	13.00	11.77	0.05	0 mm	Ant 2a	V2	FFGX7764PA	1	back	77	0.518	1.327	1.006	0.692	0.201	0.268	
2480	78	Bluetooth	13.00	11.20	-0.04	0 mm	Ant 2a	V2	FFGX7764PA	1	back	77	0.717	1.514	1.006	1.092	0.249	0.379	
2480	78	Bluetooth	13.00	11.75	0.00	0 mm	Ant 2a	V1	L6KXK3395G	1	back	77	0.815	1.334	1.006	1.094	0.296	0.397	
2441	39	Bluetooth	13.00	11.77	-0.04	0 mm	Ant 2a	V2	FFGX7764PA	1	Top	77	0.007	1.327	1.006	0.009	0.003	0.004	
2441	39	Bluetooth	13.00	11.77	0.00	0 mm	Ant 2a	V2	FFGX7764PA	1	bottom	77	0.230	1.327	1.006	0.307	0.068	0.091	
2441	39	Bluetooth	13.00	11.77	0.14	0 mm	Ant 2a	V2	FFGX7764PA	1	right	77	0.553	1.327	1.006	0.738	0.184	0.246	
2441	39	Bluetooth	13.00	11.77	0.01	0 mm	Ant 2a	V2	FFGX7764PA	1	left	77	0.000	1.327	1.006	0.000	0.000	0.000	
2402	0	Bluetooth	9.00	8.11	0.00	0 mm	Ant 2a	V1	L6KXK3395G	1	back	77	0.370	1.227	1.006	0.457	0.136	0.168	
2402	0	Bluetooth	9.00	8.11	-0.01	0 mm	Ant 2a	V1	L6KXK3395G	1	bottom	77	0.141	1.227	1.006	0.174	0.041	0.051	
2402	0	Bluetooth	9.00	8.11	0.02	0 mm	Ant 2a	V1	L6KXK3395G	1	right	77	0.288	1.227	1.006	0.355	0.093	0.115	
2441	39	Bluetooth	6.00	5.07	-0.03	0 mm	Ant 2a	V1	L6KXK3395G	1	back	77	0.143	1.239	1.006	0.178	0.052	0.065	
2441	39	Bluetooth	6.00	5.07	-0.09	0 mm	Ant 2a	V1	L6KXK3395G	1	bottom	77	0.071	1.239	1.006	0.088	0.020	0.025	
2441	39	Bluetooth	6.00	5.07	-0.16	0 mm	Ant 2a	V1	L6KXK3395G	1	right	77	0.111	1.239	1.006	0.138	0.034	0.042	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population													Body 1.6 W/kg (mW/g) averaged over 1 gram						

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

Table 10-94
Bluetooth Ant 4a Body SAR

MEASUREMENT RESULTS																				
FREQUENCY		Mode	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Spacing	Antenna Config.	Variant	Device Serial Number	Data Rate (Mbps)	Side	Duty Cycle (%)	SAR (1g)	Scaling Factor (Cond Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
MHz													(W/kg)			(W/kg)	(W/kg)	(W/kg)	
2402	0	Bluetooth	14.00	13.08	0.09	0 mm	Ant 4a	V1	LCL639YM62	1	back	77	0.808	1.236	1.006	1.005	0.294	0.366	
2441	39	Bluetooth	14.00	13.09	0.07	0 mm	Ant 4a	V1	LCL639YM62	1	back	77	0.763	1.233	1.006	0.946	0.279	0.346	
2480	78	Bluetooth	14.00	13.21	0.05	0 mm	Ant 4a	V1	LCL639YM62	1	back	77	0.835	1.199	1.006	1.007	0.298	0.359	A32
2480	78	Bluetooth	14.00	13.15	-0.01	0 mm	Ant 4a	V2	FFGX7764PA	1	back	77	0.818	1.216	1.006	1.001	0.299	0.366	
2480	78	Bluetooth	14.00	13.21	0.05	0 mm	Ant 4a	V1	LCL639YM62	1	Top	77	0.356	1.199	1.006	0.429	0.105	0.127	
2480	78	Bluetooth	14.00	13.21	0.08	0 mm	Ant 4a	V1	LCL639YM62	1	bottom	77	0.010	1.199	1.006	0.012	0.003	0.004	
2480	78	Bluetooth	14.00	13.21	0.05	0 mm	Ant 4a	V1	LCL639YM62	1	right	77	0.000	1.199	1.006	0.000	0.000	0.000	
2480	78	Bluetooth	14.00	13.21	0.17	0 mm	Ant 4a	V1	LCL639YM62	1	left	77	0.636	1.199	1.006	0.767	0.212	0.256	
2402	0	Bluetooth	11.00	9.91	0.04	0 mm	Ant 4a	V1	LCL639YM62	1	back	77	0.426	1.285	1.006	0.551	0.155	0.200	
2402	0	Bluetooth	11.00	9.91	0.01	0 mm	Ant 4a	V1	LCL639YM62	1	Top	77	0.107	1.285	1.006	0.138	0.031	0.040	
2402	0	Bluetooth	11.00	9.91	-0.05	0 mm	Ant 4a	V1	LCL639YM62	1	left	77	0.276	1.285	1.006	0.357	0.088	0.114	
2402	0	Bluetooth	9.00	8.16	-0.04	0 mm	Ant 4a	V1	LCL639YM62	1	back	77	0.274	1.213	1.006	0.334	0.100	0.122	
2402	0	Bluetooth	9.00	8.16	-0.03	0 mm	Ant 4a	V1	LCL639YM62	1	Top	77	0.079	1.213	1.006	0.096	0.022	0.027	
2402	0	Bluetooth	9.00	8.16	-0.06	0 mm	Ant 4a	V1	LCL639YM62	1	left	77	0.179	1.213	1.006	0.218	0.057	0.070	
2441	39	Bluetooth	7.00	4.96	-0.01	0 mm	Ant 4a	V1	LCL639YM62	1	back	77	0.112	1.600	1.006	0.180	0.040	0.064	
2441	39	Bluetooth	7.00	4.96	0.00	0 mm	Ant 4a	V1	LCL639YM62	1	Top	77	0.034	1.600	1.006	0.055	0.009	0.014	
2441	39	Bluetooth	7.00	4.96	-0.12	0 mm	Ant 4a	V1	LCL639YM62	1	left	77	0.081	1.600	1.006	0.130	0.025	0.040	
2480	78	Bluetooth	14.00	13.21	-0.06	0 mm	Ant 4a	V1	LCL639YM62	1	back	77	0.798	1.199	1.006	0.963	0.296	0.357	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population													Body 1.6 W/kg (mW/g) averaged over 1 gram						

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

Table 10-95
NB UNII Ant 4a Body SAR

MEASUREMENT RESULTS																		
FREQUENCY	Mode	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Spacing	Antenna Config.	Variant	Device Serial Number	Data Rate (Mbps)	Side	Duty Cycle (%)	SAR (1g)	Scaling Factor (Cond Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
MHz												(W/kg)			(W/kg)	(W/kg)	(W/kg)	
5162.00	NB UNII 1	10.50	9.41	0.07	0 mm	Ant 4a	V2	QY4T00NCF0	4	back	77	0.716	1.285	1.006	0.926	0.168	0.217	
5204.00	NB UNII 1	10.50	9.32	0.08	0 mm	Ant 4a	V2	QY4T00NCF0	4	back	77	0.672	1.312	1.006	0.887	0.157	0.207	
5245.00	NB UNII 1	10.50	9.39	0.01	0 mm	Ant 4a	V2	QY4T00NCF0	4	back	77	0.850	1.291	1.006	1.104	0.202	0.262	
5245.00	NB UNII 1	10.50	9.91	0.02	0 mm	Ant 4a	V1	LCL639YM62	4	back	77	0.917	1.146	1.006	1.057	0.218	0.251	
5162.00	NB UNII 1	10.50	9.41	0.07	0 mm	Ant 4a	V2	QY4T00NCF0	4	top	77	0.123	1.285	1.006	0.159	0.029	0.037	
5162.00	NB UNII 1	10.50	9.41	0.06	0 mm	Ant 4a	V2	QY4T00NCF0	4	bottom	77	0.000	1.285	1.006	0.000	0.000	0.000	
5162.00	NB UNII 1	10.50	9.41	0.00	0 mm	Ant 4a	V2	QY4T00NCF0	4	right	77	0.000	1.285	1.006	0.000	0.000	0.000	
5162.00	NB UNII 1	10.50	9.41	-0.01	0 mm	Ant 4a	V2	QY4T00NCF0	4	left	77	0.769	1.285	1.006	0.994	0.168	0.217	
5204.00	NB UNII 1	10.50	9.32	-0.02	0 mm	Ant 4a	V2	QY4T00NCF0	4	left	77	0.679	1.312	1.006	0.896	0.148	0.195	
5245.00	NB UNII 1	10.50	9.39	-0.03	0 mm	Ant 4a	V2	QY4T00NCF0	4	left	77	0.772	1.291	1.006	1.003	0.169	0.219	
5204.00	NB UNII 1	7.50	6.55	0.03	0 mm	Ant 4a	V2	QY4T00NCF0	4	back	77	0.382	1.245	1.006	0.478	0.084	0.105	
5204.00	NB UNII 1	7.50	6.55	-0.12	0 mm	Ant 4a	V2	QY4T00NCF0	4	top	77	0.054	1.245	1.006	0.068	0.009	0.011	
5204.00	NB UNII 1	7.50	6.55	-0.07	0 mm	Ant 4a	V2	QY4T00NCF0	4	left	77	0.370	1.245	1.006	0.463	0.076	0.095	
5204.00	NB UNII 1	5.50	5.15	-0.01	0 mm	Ant 4a	V2	QY4T00NCF0	4	back	77	0.261	1.084	1.006	0.285	0.055	0.060	
5204.00	NB UNII 1	5.50	5.15	0.01	0 mm	Ant 4a	V2	QY4T00NCF0	4	top	77	0.034	1.084	1.006	0.037	0.002	0.002	
5204.00	NB UNII 1	5.50	5.15	-0.16	0 mm	Ant 4a	V2	QY4T00NCF0	4	left	77	0.254	1.084	1.006	0.277	0.052	0.057	
5204.00	NB UNII 1	3.50	3.49	0.04	0 mm	Ant 4a	V2	QY4T00NCF0	4	back	77	0.190	1.002	1.006	0.192	0.040	0.040	
5204.00	NB UNII 1	3.50	3.49	0.02	0 mm	Ant 4a	V2	QY4T00NCF0	4	top	77	0.023	1.002	1.006	0.023	0.000	0.000	
5204.00	NB UNII 1	3.50	3.49	-0.06	0 mm	Ant 4a	V2	QY4T00NCF0	4	left	77	0.169	1.002	1.006	0.170	0.036	0.036	
5733.00	NB UNII 3	10.50	10.40	0.09	0 mm	Ant 4a	V1	LCL639YM62	1	back	77	1.050	1.023	1.006	1.081	0.235	0.242	
5789.00	NB UNII 3	10.50	10.45	-0.05	0 mm	Ant 4a	V1	LCL639YM62	1	back	77	1.050	1.012	1.006	1.069	0.230	0.234	
5844.00	NB UNII 3	10.50	10.20	0.02	0 mm	Ant 4a	V1	LCL639YM62	1	back	77	1.090	1.072	1.006	**1.175**	0.236	0.255	A33
5844.00	NB UNII 3	10.50	10.37	0.02	0 mm	Ant 4a	V2	R02RYY63RP	1	back	77	1.020	1.030	1.006	1.057	0.220	0.228	
5789.00	NB UNII 3	10.50	10.45	-0.19	0 mm	Ant 4a	V1	LCL639YM62	1	top	77	0.078	1.012	1.006	0.079	0.018	0.018	
5789.00	NB UNII 3	10.50	10.45	0.05	0 mm	Ant 4a	V1	LCL639YM62	1	bottom	77	0.000	1.012	1.006	0.000	0.000	0.000	
5789.00	NB UNII 3	10.50	10.45	0.06	0 mm	Ant 4a	V1	LCL639YM62	1	right	77	0.000	1.012	1.006	0.000	0.000	0.000	
5733.00	NB UNII 3	10.50	10.40	-0.08	0 mm	Ant 4a	V1	LCL639YM62	1	left	77	0.844	1.023	1.006	0.869	0.182	0.187	
5789.00	NB UNII 3	10.50	10.45	-0.04	0 mm	Ant 4a	V1	LCL639YM62	1	left	77	0.861	1.012	1.006	0.877	0.185	0.188	
5844.00	NB UNII 3	10.50	10.20	0.00	0 mm	Ant 4a	V1	LCL639YM62	1	left	77	0.797	1.072	1.006	0.860	0.171	0.184	
5844.00	NB UNII 3	7.50	6.99	-0.08	0 mm	Ant 4a	V1	LCL639YM62	1	back	77	0.400	1.125	1.006	0.453	0.082	0.093	
5844.00	NB UNII 3	7.50	6.99	-0.04	0 mm	Ant 4a	V1	LCL639YM62	1	left	77	0.306	1.125	1.006	0.346	0.059	0.067	
5789.00	NB UNII 3	5.50	5.31	0.00	0 mm	Ant 4a	V1	LCL639YM62	1	back	77	0.268	1.045	1.006	0.282	0.053	0.056	
5789.00	NB UNII 3	5.50	5.31	-0.04	0 mm	Ant 4a	V1	LCL639YM62	1	left	77	0.206	1.045	1.006	0.217	0.037	0.039	
5789.00	NB UNII 3	3.50	3.29	0.04	0 mm	Ant 4a	V1	LCL639YM62	1	back	77	0.150	1.050	1.006	0.158	0.026	0.027	
5789.00	NB UNII 3	3.50	3.29	0.07	0 mm	Ant 4a	V1	LCL639YM62	1	left	77	0.112	1.050	1.006	0.118	0.017	0.018	
5844.00	NB UNII 3	10.50	10.20	0.03	0 mm	Ant 4a	V1	LCL639YM62	1	back	77	1.090	1.072	1.006	1.175	0.246	0.265	
5245.00	NB UNII 1	10.50	9.91	0.02	0 mm	Ant 4a	V1	LCL639YM62	4	back	77	0.895	1.146	1.006	1.032	0.217	0.250	
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 10-96
NB UNII Ant 5B Body SAR

MEASUREMENT RESULTS																		
FREQUENCY	Mode	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Spacing	Antenna Config.	Variant	Device Serial Number	Data Rate (Mbps)	Side	Duty Cycle (%)	SAR (1g)	Scaling Factor (Cond Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
MHz												(W/kg)			(W/kg)	(W/kg)	(W/kg)	
5245.00	NB UNII 1	12.00	11.06	0.05	0 mm	Ant 5b	V1	L6KXK3395G	4	back	77	0.034	1.242	1.006	0.042	0.012	0.015	
5162.00	NB UNII 1	12.00	11.09	0.05	0 mm	Ant 5b	V1	L6KXK3395G	4	top	77	0.000	1.233	1.006	0.000	0.000	0.000	
5245.00	NB UNII 1	12.00	11.06	0.05	0 mm	Ant 5b	V1	L6KXK3395G	4	bottom	77	0.000	1.242	1.006	0.000	0.000	0.000	
5162.00	NB UNII 1	12.00	11.09	-0.03	0 mm	Ant 5b	V1	L6KXK3395G	4	right	77	0.207	1.233	1.006	0.257	0.061	0.076	
5204.00	NB UNII 1	12.00	11.39	-0.19	0 mm	Ant 5b	V1	L6KXK3395G	4	right	77	0.233	1.151	1.006	0.270	0.067	0.078	
5245.00	NB UNII 1	12.00	11.06	-0.03	0 mm	Ant 5b	V1	L6KXK3395G	4	right	77	0.221	1.242	1.006	0.276	0.063	0.079	
5245.00	NB UNII 1	12.00	11.02	0.18	0 mm	Ant 5b	V2	QY4T00NCF0	4	right	77	0.225	1.253	1.006	0.284	0.065	0.082	
5162.00	NB UNII 1	12.00	11.09	0.06	0 mm	Ant 5b	V1	L6KXK3395G	4	left	77	0.000	1.233	1.006	0.000	0.000	0.000	
5162.00	NB UNII 1	8.00	7.16	0.07	0 mm	Ant 5b	V2	QY4T00NCF0	4	right	77	0.083	1.213	1.006	0.101	0.020	0.024	
5162.00	NB UNII 1	5.00	4.12	0.05	0 mm	Ant 5b	V2	QY4T00NCF0	4	right	77	0.041	1.225	1.006	0.051	0.008	0.010	
5789.00	NB UNII 3	16.00	15.32	-0.11	0 mm	Ant 5b	V1	L6KXK3395G	1	back	77	0.090	1.169	1.006	0.106	0.032	0.038	
5789.00	NB UNII 3	16.00	15.32	0.05	0 mm	Ant 5b	V1	L6KXK3395G	1	Top	77	0.000	1.169	1.006	0.000	0.000	0.000	
5789.00	NB UNII 3	16.00	15.32	0.08	0 mm	Ant 5b	V1	L6KXK3395G	1	bottom	77	0.005	1.169	1.006	0.006	0.000	0.000	
5733.00	NB UNII 3	16.00	15.22	-0.02	0 mm	Ant 5b	V1	L6KXK3395G	1	right	77	0.625	1.197	1.006	0.753	0.197	0.237	
5789.00	NB UNII 3	16.00	15.32	0.16	0 mm	Ant 5b	V1	L6KXK3395G	1	right	77	0.651	1.169	1.006	0.766	0.204	0.240	
5844.00	NB UNII 3	16.00	15.16	0.02	0 mm	Ant 5b	V1	L6KXK3395G	1	right	77	0.687	1.213	1.006	0.838	0.211	0.257	
5844.00	NB UNII 3	16.00	15.12	0.01	0 mm	Ant 5b	V2	QY4T00NCF0	1	right	77	0.801	1.225	1.006	0.987	0.253	0.312	
5789.00	NB UNII 3	16.00	15.32	0.05	0 mm	Ant 5b	V1	L6KXK3395G	1	left	77	0.008	1.169	1.006	0.009	0.000	0.000	
5789.00	NB UNII 3	12.00	11.30	0.09	0 mm	Ant 5b	V2	QY4T00NCF0	1	back	77	0.029	1.175	1.006	0.034	0.007	0.008	
5789.00	NB UNII 3	12.00	11.30	0.03	0 mm	Ant 5b	V2	QY4T00NCF0	1	right	77	0.282	1.175	1.006	0.333	0.085	0.100	
5789.00	NB UNII 3	9.00	7.95	0.03	0 mm	Ant 5b	V2	QY4T00NCF0	1	back	77	0.000	1.274	1.006	0.000	0.000	0.000	
5789.00	NB UNII 3	9.00	7.95	0.04	0 mm	Ant 5b	V2	QY4T00NCF0	1	right	77	0.039	1.274	1.006	0.050	0.006	0.008	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population										Body 1.6 W/kg (mW/g) averaged over 1 gram								

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

10.2 SAR Test Notes

General Notes:

1. The test data reported are the worst-case SAR values according to test procedures specified in FCC KDB Publication 616217 D04v01r02, and FCC KDB Publication 447498 D01v06.
2. Batteries are fully charged at the beginning of the SAR measurements.
3. Liquid tissue depth was at least 15.0 cm for all frequencies.
4. The manufacturer has confirmed that the device(s) tested have the same physical, mechanical and thermal characteristics and are within operational tolerances expected for production units.
5. SAR results were scaled to the maximum allowed power to demonstrate compliance per FCC KDB Publication 447498 D01v06.
6. Per FCC KDB 865664 D01v01r04, variability SAR tests were performed when the measured SAR results for a frequency band were greater than or equal to 0.8 W/kg. Repeated SAR measurements are highlighted in the tables above for clarity. Please see Section 12 for variability analysis.
7. FCC KDB Publication 616217 D04v01r02 Section 4.3, SAR tests are required for the back surface and edges of the tablet with the tablet touching the phantom. The SAR Exclusion Threshold in FCC KDB 447498 D01v06 was applied to determine SAR test exclusion for adjacent edge configurations.
8. This device uses Smart Transmit for 3G/4G/5G 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).
9. The orange highlights throughout the report represents the highest scaled SAR per Equipment Class.

UMTS Notes:

1. UMTS mode was tested under RMC 12.2 kbps with HSPA Inactive per KDB Publication 941225 D01v03r01. AMR and HSPA SAR was not required per the 3G Test Reduction Procedure in KDB Publication 941225 D01v03r01.
2. Per FCC KDB Publication 447498 D01v06, 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).

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 D01v06, 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 conditions. 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 D01v06, 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.
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.

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 D01v06 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 Notes

1. Bluetooth SAR was evaluated with a test mode with hopping disabled with DH5 operation. The reported SAR was scaled to the 77.5% transmission duty factor to determine compliance since the duty factor of the device is limited to 77.5% per the manufacturer. See Section 8.7 for the time domain plot and calculation for the duty factor of the device.

11 FCC MULTI-TX AND ANTENNA SAR CONSIDERATIONS

11.1 Introduction

The following procedures adopted from FCC KDB Publication 447498 D01v06 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 D01v06 4.3.2 and IEEE 1528-2013 Section 6.3.4.1.2, simultaneous transmission SAR test exclusion may be applied when the sum of the 1g SAR for all the simultaneous transmitting antennas in a specific a physical test configuration is ≤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, the simultaneous transmission were 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.

11.3 Body SAR Simultaneous Transmission Analysis

Table 11-1
Cellular Band Ant 1 Simultaneous Transmission Scenario with 2.4 GHz WLAN MIMO

Simult Tx	Configuration	Cellular Band Ant 1 SAR (W/kg)	2.4 GHz WLAN Ant 2a SAR (W/kg)	2.4 GHz WLAN Ant 4a SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Body SAR	Back	0.991	1.113	1.035	1.113*
	Top	0.047	0.012	0.274	0.333
	Bottom	0.762	0.503	0.004	**1.269**
	Right	0.067	1.003	0.000	1.070
	Left	0.972	0.000	0.632	0.972*

Table 11-2
Cellular Band Ant 2a Simultaneous Transmission Scenario with 2.4 GHz WLAN MIMO

Simult Tx	Configuration	Cellular Band Ant 2a SAR (W/kg)	2.4 GHz WLAN Ant 2a Reduced at 9.5dBm SAR (W/kg)	2.4 GHz WLAN Ant 4a SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Body SAR	Back	0.947	0.536	1.035	**1.483***
	Top	0.011	0.012	0.274	0.297
	Bottom	0.322	0.225	0.004	0.551
	Right	0.995	0.470	0.000	1.465
	Left	0.003	0.000	0.632	0.635

Table 11-3
Cellular Band Ant 2b Simultaneous Transmission Scenario with 2.4 GHz WLAN MIMO

Simult Tx	Configuration	Cellular Band Ant 2b SAR (W/kg)	2.4 GHz WLAN Ant 2a Reduced at 9.5dBm SAR (W/kg)	2.4 GHz WLAN Ant 4a SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Body SAR	Back	0.998	0.536	1.035	**1.534***
	Top	0.015	0.012	0.274	0.301
	Bottom	0.885	0.225	0.004	1.114
	Right	0.061	0.470	0.000	0.531
	Left	0.044	0.000	0.632	0.676

Table 11-4
Cellular Band Ant 3 Simultaneous Transmission Scenario with 2.4 GHz WLAN MIMO

Simult Tx	Configuration	Cellular Band Ant 3 SAR (W/kg)	2.4 GHz WLAN Ant 2a SAR (W/kg)	2.4 GHz WLAN Ant 4a SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Body SAR	Back	0.949	1.113	1.035	1.113*
	Top	0.998	0.012	0.274	**1.284**
	Bottom	0.040	0.503	0.004	0.547
	Right	0.907	1.003	0.000	1.003*
	Left	0.059	0.000	0.632	0.691

Table 11-5
Cellular Band Ant 4b Simultaneous Transmission Scenario with 2.4 GHz WLAN MIMO

Simult Tx	Configuration	Cellular Band Ant 4b SAR (W/kg)	2.4 GHz WLAN Ant 2a SAR (W/kg)	2.4 GHz WLAN Ant 4a Reduced at 7.5dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Body SAR	Back	0.998	1.113	0.397	**1.395***
	Top	0.987	0.012	0.128	1.127
	Bottom	0.008	0.503	0.004	0.515
	Right	0.029	1.003	0.000	1.032
	Left	0.066	0.000	0.327	0.393

Table 11-6
Cellular Band Ant 1 Simultaneous Transmission Scenario with 5 GHz WLAN MIMO

Simult Tx	Configuration	Cellular Band Ant 1 SAR (W/kg)	5 GHz WLAN Ant 4a SAR (W/kg)	5 GHz WLAN Ant 5b SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Body SAR	Back	0.991	1.153	0.170	**1.323***
	Top	0.047	0.172	0.000	0.219
	Bottom	0.762	0.000	0.029	0.791
	Right	0.067	0.000	1.136	1.203
	Left	0.972	0.985	0.018	1.003*

Table 11-7
Cellular Band Ant 2a Simultaneous Transmission Scenario with 5 GHz WLAN MIMO

Simult Tx	Configuration	Cellular Band Ant 2a SAR (W/kg)	5 GHz WLAN Ant 4a SAR (W/kg)	5 GHz WLAN Ant 5b Reduced at 12.5 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Body SAR	Back	0.947	1.153	0.063	1.216*
	Top	0.011	0.172	0.000	0.183
	Bottom	0.322	0.000	0.029	0.351
	Right	0.995	0.000	0.449	**1.444**
	Left	0.003	0.985	0.018	1.006

Table 11-8
Cellular Band Ant 2b Simultaneous Transmission Scenario with 5 GHz WLAN MIMO

Simult Tx	Configuration	Cellular Band Ant 2b SAR (W/kg)	5 GHz WLAN Ant 4a SAR (W/kg)	5 GHz WLAN Ant 5b Reduced at 12.5 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Body SAR	Back	0.998	1.153	0.063	**1.216***
	Top	0.015	0.172	0.000	0.187
	Bottom	0.885	0.000	0.029	0.914
	Right	0.061	0.000	0.449	0.510
	Left	0.044	0.985	0.018	1.047

Table 11-9
Cellular Band Ant 3 Simultaneous Transmission Scenario with 5 GHz WLAN MIMO

Simult Tx	Configuration	Cellular Band Ant 3 SAR (W/kg)	5 GHz WLAN Ant 4a SAR (W/kg)	5 GHz WLAN Ant 5b SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Body SAR	Back	0.949	1.153	0.170	**1.323***
	Top	0.998	0.172	0.000	1.170
	Bottom	0.040	0.000	0.029	0.069
	Right	0.907	0.000	1.136	1.136*
	Left	0.059	0.985	0.018	1.062

Table 11-10
Cellular Band Ant 4b Simultaneous Transmission Scenario with 5 GHz WLAN MIMO

Simult Tx	Configuration	Cellular Band Ant 4b SAR (W/kg)	5 GHz WLAN Ant 4a Reduced at 3.75 dBm SAR (W/kg)	5 GHz WLAN Ant 5b SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Body SAR	Back	0.998	0.331	0.170	**1.499**
	Top	0.987	0.087	0.000	1.074
	Bottom	0.008	0.000	0.029	0.037
	Right	0.029	0.000	1.136	1.165
	Left	0.066	0.291	0.018	0.375

Table 11-11
Cellular Band Ant 1 Simultaneous Transmission Scenario with 2.4 GHz Bluetooth TxBF

Simult Tx	Configuration	Cellular Band Ant 1 SAR (W/kg)	Bluetooth Ant 2a at 9 dBm SAR (W/kg)	Bluetooth Ant 4a SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Body SAR	Back	0.991	0.457	1.007	**1.464***
	Top	0.047	0.009	0.429	0.485
	Bottom	0.762	0.174	0.012	0.948
	Right	0.067	0.355	0.000	0.422
	Left	0.972	0.000	0.767	0.972*

Table 11-12
Cellular Band Ant 2a Simultaneous Transmission Scenario with 2.4 GHz Bluetooth TxBF

Simult Tx	Configuration	Cellular Band Ant 2a SAR (W/kg)	Bluetooth Ant 2a at 9 dBm SAR (W/kg)	Bluetooth Ant 4a SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Body SAR	Back	0.947	0.457	1.007	**1.464***
	Top	0.011	0.009	0.429	0.449
	Bottom	0.322	0.174	0.012	0.508
	Right	0.995	0.355	0.000	1.350
	Left	0.003	0.000	0.767	0.770

Table 11-13
Cellular Band Ant 2b Simultaneous Transmission Scenario with 2.4 GHz Bluetooth TxBF

Simult Tx	Configuration	Cellular Band Ant 2b SAR (W/kg)	Bluetooth Ant 2a at 9 dBm SAR (W/kg)	Bluetooth Ant 4a SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Body SAR	Back	0.998	0.457	1.007	**1.464***
	Top	0.015	0.009	0.429	0.453
	Bottom	0.885	0.174	0.012	1.071
	Right	0.061	0.355	0.000	0.416
	Left	0.044	0.000	0.767	0.811

Table 11-14
Cellular Band Ant 3 Simultaneous Transmission Scenario with 2.4 GHz Bluetooth TxBF

Simult Tx	Configuration	Cellular Band Ant 3 SAR (W/kg)	Bluetooth Ant 2a SAR (W/kg)	Bluetooth Ant 4a at 11 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Body SAR	Back	0.949	1.094	0.551	1.094*
	Top	0.998	0.009	0.138	**1.145**
	Bottom	0.040	0.307	0.012	0.359
	Right	0.907	0.738	0.000	0.907*
	Left	0.059	0.000	0.357	0.416

Table 11-15
Cellular Band Ant 4b Simultaneous Transmission Scenario with 2.4 GHz Bluetooth TxBF

Simult Tx	Configuration	Cellular Band Ant 4b SAR (W/kg)	Bluetooth Ant 2a SAR (W/kg)	Bluetooth Ant 4a at 11 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Body SAR	Back	0.998	1.094	0.551	**1.549***
	Top	0.987	0.009	0.138	1.134
	Bottom	0.008	0.307	0.012	0.327
	Right	0.029	0.738	0.000	0.767
	Left	0.066	0.000	0.357	0.423

Table 11-16
Cellular Band Ant 1 Simultaneous Transmission Scenario with NB UNII TxBF

Simult Tx	Configuration	Cellular Band Ant 1 SAR (W/kg)	NB UNII Ant 5b Reduced at 12 dBm SAR (W/kg)	NB UNII Ant 4a SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Body SAR	Back	0.991	0.042	1.175	**1.217***
	Top	0.047	0.000	0.159	0.206
	Bottom	0.762	0.000	0.000	0.762
	Right	0.067	0.333	0.000	0.400
	Left	0.972	0.024	1.003	1.027*

Table 11-17
Cellular Band Ant 2a Simultaneous Transmission Scenario with NB UNII TxBF

Simult Tx	Configuration	Cellular Band Ant 2a SAR (W/kg)	NB UNII Ant 5b Reduced at 12 dBm SAR (W/kg)	NB UNII Ant 4a SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Body SAR	Back	0.947	0.042	1.175	1.217*
	Top	0.011	0.000	0.159	0.170
	Bottom	0.322	0.000	0.000	0.322
	Right	0.995	0.333	0.000	**1.328**
	Left	0.003	0.024	1.003	1.030

Table 11-18
Cellular Band Ant 2b Simultaneous Transmission Scenario with NB UNII TxBF

Simult Tx	Configuration	Cellular Band Ant 2b SAR (W/kg)	NB UNII Ant 5b Reduced at 12 dBm SAR (W/kg)	NB UNII Ant 4a SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Body SAR	Back	0.998	0.042	1.175	**1.217***
	Top	0.015	0.000	0.159	0.174
	Bottom	0.885	0.000	0.000	0.885
	Right	0.061	0.333	0.000	0.394
	Left	0.044	0.024	1.003	1.071

Table 11-19
Cellular Band Ant 3 Simultaneous Transmission Scenario with NB UNII TxBF

Simult Tx	Configuration	Cellular Band Ant 3 SAR (W/kg)	NB UNII Ant 5B SAR (W/kg)	NB UNII Ant 4a Reduced at 7.5 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Body SAR	Back	0.949	0.124	0.478	**1.551**
	Top	0.998	0.000	0.081	1.079
	Bottom	0.040	0.000	0.000	0.040
	Right	0.907	0.977	0.000	0.977*
	Left	0.059	0.024	0.463	0.546

Table 11-20
Cellular Band Ant 4b Simultaneous Transmission Scenario with NB UNII TxBF

Simult Tx	Configuration	Cellular Band Ant 4b SAR (W/kg)	NB UNII Ant 5B SAR (W/kg)	NB UNII Ant 4a Reduced at 7.5 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Body SAR	Back	0.998	0.124	0.478	**1.476***
	Top	0.987	0.000	0.081	1.068
	Bottom	0.008	0.000	0.000	0.008
	Right	0.029	0.977	0.000	1.006
	Left	0.066	0.024	0.463	0.553

Table 11-21
Cellular Band Ant 1 Simultaneous Transmission Scenario with 2.4 GHz Bluetooth TxBF and 5GHz WLAN MIMO

Simult Tx	Configuration	Cellular Band Ant 1 SAR (W/kg)	Bluetooth Ant 2a at 9 dBm SAR (W/kg)	Bluetooth Ant 4a at 9 dBm SAR (W/kg)	5 GHz WLAN Ant 4a SAR (W/kg)	5 GHz WLAN Ant 5b SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.991	0.457	0.334	1.153	0.170	1.487*
	Top	0.047	0.009	0.096	0.172	0.000	0.324
	Bottom	0.762	0.174	0.012	0.000	0.029	0.977
	Right	0.067	0.355	0.000	0.000	1.136	**1.558**
	Left	0.972	0.000	0.218	0.985	0.018	1.221*

Table 11-22
Cellular Band Ant 2a Simultaneous Transmission Scenario with 2.4 GHz Bluetooth TxBF and 5GHz WLAN MIMO

Simult Tx	Configuration	Cellular Band Ant 2a SAR (W/kg)	Bluetooth Ant 2a at 6 dBm SAR (W/kg)	Bluetooth Ant 4a at 9 dBm SAR (W/kg)	5 GHz WLAN Ant 4a SAR (W/kg)	5 GHz WLAN Ant 5B Reduced at 12.5 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.947	0.178	0.334	1.153	0.063	1.550*
	Top	0.011	0.009	0.096	0.172	0.000	0.288
	Bottom	0.322	0.088	0.012	0.000	0.029	0.451
	Right	0.995	0.138	0.000	0.000	0.449	**1.582**
	Left	0.003	0.000	0.218	0.985	0.018	1.224

Table 11-23
Cellular Band Ant 2b Simultaneous Transmission Scenario with 2.4 GHz Bluetooth TxBF and 5GHz WLAN MIMO

Simult Tx	Configuration	Cellular Band Ant 2b SAR (W/kg)	Bluetooth Ant 2a at 6 dBm SAR (W/kg)	Bluetooth Ant 4a at 9 dBm SAR (W/kg)	5 GHz WLAN Ant 4a SAR (W/kg)	5 GHz WLAN Ant 5b Reduced at 12.5 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.998	0.178	0.334	1.153	0.063	**1.550***
	Top	0.015	0.009	0.096	0.172	0.000	0.292
	Bottom	0.885	0.088	0.012	0.000	0.029	1.014
	Right	0.061	0.138	0.000	0.000	0.449	0.648
	Left	0.044	0.000	0.218	0.985	0.018	1.265

Table 11-24
Cellular Band Ant 3 Simultaneous Transmission Scenario with 2.4 GHz Bluetooth TxBF and 5GHz WLAN MIMO

Simult Tx	Configuration	Cellular Band Ant 3 SAR (W/kg)	Bluetooth Ant 2a at 9 dBm SAR (W/kg)	Bluetooth Ant 4a at 7 dBm SAR (W/kg)	5 GHz WLAN Ant 4a SAR (W/kg)	5 GHz WLAN Ant 5b SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.949	0.457	0.180	1.153	0.170	**1.503***
	Top	0.998	0.009	0.055	0.172	0.000	1.234
	Bottom	0.040	0.174	0.012	0.000	0.029	0.255
	Right	0.907	0.355	0.000	0.000	1.136	1.491*
	Left	0.059	0.000	0.130	0.985	0.018	1.192

Table 11-25
Cellular Band Ant 4b Simultaneous Transmission Scenario with 2.4 GHz Bluetooth TxBF and 5GHz WLAN MIMO

Simult Tx	Configuration	Cellular Band Ant 4b SAR (W/kg)	Bluetooth Ant 2a at 9 dBm SAR (W/kg)	Bluetooth Ant 4a at 7 dBm SAR (W/kg)	5 GHz WLAN Ant 4a Reduced at 3.75 SAR (W/kg)	5 GHz WLAN Ant 5B SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.998	0.457	0.180	0.331	0.170	1.509*
	Top	0.987	0.009	0.055	0.172	0.000	1.223
	Bottom	0.008	0.174	0.012	0.000	0.029	0.223
	Right	0.029	0.355	0.000	0.000	1.136	**1.520**
	Left	0.066	0.000	0.130	0.291	0.018	0.505

Table 11-26
Cellular Band Ant 1 Simultaneous Transmission Scenario with NB UNII TxBF and 2.4 GHz WLAN MIMO

Simult Tx	Configuration	Cellular Band Ant 1 SAR (W/kg)	NB UNII Ant 5B Reduced at 12 dBm SAR (W/kg)	NB UNII Ant 4a Reduced at 5.5 dBm SAR (W/kg)	2.4 GHz WLAN Ant 2a SAR (W/kg)	2.4 GHz WLAN Ant 4a SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.991	0.042	0.285	1.113	1.035	**1.362***
	Top	0.047	0.000	0.037	0.012	0.274	0.370
	Bottom	0.762	0.000	0.000	0.503	0.004	1.269
	Right	0.067	0.333	0.000	1.003	0.000	1.403
	Left	0.972	0.024	0.277	0.000	0.632	0.996*

Table 11-27
Cellular Band Ant 2a Simultaneous Transmission Scenario with NB UNII TxBF and 2.4 GHz WLAN MIMO

Simult Tx	Configuration	Cellular Band Ant 2a SAR (W/kg)	NB UNII Ant 5B Reduced at 9 dBm SAR (W/kg)	NB UNII Ant 4a Reduced at 5.5 dBm SAR (W/kg)	2.4 GHz WLAN Ant 2a Reduced at 9.5dBm SAR	2.4 GHz WLAN Ant 4a SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.947	0.042	0.285	0.536	1.035	**1.525***
	Top	0.011	0.000	0.037	0.012	0.274	0.334
	Bottom	0.322	0.000	0.000	0.225	0.004	0.551
	Right	0.995	0.051	0.000	0.470	0.000	1.516
	Left	0.003	0.009	0.277	0.000	0.632	0.921

Table 11-28
Cellular Band Ant 2b Simultaneous Transmission Scenario with NB UNII TxBF and 2.4 GHz WLAN MIMO

Simult Tx	Configuration	Cellular Band Ant 2b SAR (W/kg)	NB UNII Ant 5B Reduced at 9 dBm SAR (W/kg)	NB UNII Ant 4a Reduced at 5.5 dBm SAR (W/kg)	2.4 GHz WLAN Ant 2a Reduced at 9.5dBm SAR	2.4 GHz WLAN Ant 4a SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.998	0.042	0.285	0.536	1.035	**1.576***
	Top	0.015	0.000	0.037	0.012	0.274	0.338
	Bottom	0.885	0.000	0.000	0.225	0.004	1.114
	Right	0.061	0.051	0.000	0.470	0.000	0.582
	Left	0.044	0.009	0.277	0.000	0.632	0.962

Table 11-29
Cellular Band Ant 3 Simultaneous Transmission Scenario with NB UNII TxBF and 2.4 GHz WLAN MIMO

Simult Tx	Configuration	Cellular Band Ant 3 SAR (W/kg)	NB UNII Ant 5B Reduced at 12 dBm SAR (W/kg)	NB UNII Ant 4a Reduced at 3.5 dBm SAR (W/kg)	2.4 GHz WLAN Ant 2a SAR (W/kg)	2.4 GHz WLAN Ant 4a SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.949	0.042	0.192	1.113	1.035	1.269*
	Top	0.998	0.000	0.023	0.012	0.274	**1.307**
	Bottom	0.040	0.000	0.000	0.503	0.004	0.547
	Right	0.907	0.333	0.000	1.003	0.000	1.336*
	Left	0.059	0.024	0.170	0.000	0.632	0.885

Table 11-30
Cellular Band Ant 4b Simultaneous Transmission Scenario with NB UNII TxBF and 2.4 GHz WLAN MIMO

Simult Tx	Configuration	Cellular Band Ant 4b SAR (W/kg)	NB UNII Ant 5B Reduced at 12 dBm SAR (W/kg)	NB UNII Ant 4a Reduced at 3.5 dBm SAR (W/kg)	2.4 GHz WLAN Ant 2a SAR (W/kg)	2.4 GHz WLAN Ant 4a Reduced at 7.5dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.998	0.042	0.192	1.113	0.397	**1.587***
	Top	0.987	0.000	0.023	0.012	0.128	1.150
	Bottom	0.008	0.000	0.000	0.503	0.004	0.515
	Right	0.029	0.333	0.000	1.003	0.000	1.365
	Left	0.066	0.024	0.170	0.000	0.327	0.587

Table 11-31
Cellular Band Ant 1 Simultaneous Transmission Scenario with 2.4 GHz WLAN and 2.4 GHz Bluetooth

Simult Tx	Configuration	Cellular Band Ant 1 SAR (W/kg)	Bluetooth Ant 2a at 9 dBm SAR (W/kg)	2.4 GHz WLAN Ant 4a SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Body SAR	Back	0.991	0.457	1.035	**1.492***
	Top	0.047	0.009	0.274	0.330
	Bottom	0.762	0.174	0.004	0.940
	Right	0.067	0.355	0.000	0.422
	Left	0.972	0.000	0.632	0.972

Table 11-32
Cellular Band Ant 2a Simultaneous Transmission Scenario with 2.4 GHz WLAN and 2.4 GHz Bluetooth

Simult Tx	Configuration	Cellular Band Ant 2a SAR (W/kg)	Bluetooth Ant 2a at 9 dBm SAR (W/kg)	2.4 GHz WLAN Ant 4a SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Body SAR	Back	0.947	0.457	1.035	**1.404***
	Top	0.011	0.009	0.274	0.294
	Bottom	0.322	0.174	0.004	0.500
	Right	0.995	0.355	0.000	1.350
	Left	0.003	0.000	0.632	0.635

Table 11-33
Cellular Band Ant 2b Simultaneous Transmission Scenario with 2.4 GHz WLAN and 2.4 GHz Bluetooth

Simult Tx	Configuration	Cellular Band Ant 2b SAR (W/kg)	Bluetooth Ant 2a at 9 dBm SAR (W/kg)	2.4 GHz WLAN Ant 4a SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Body SAR	Back	0.998	0.457	1.035	**1.455***
	Top	0.015	0.009	0.274	0.298
	Bottom	0.885	0.174	0.004	1.063
	Right	0.061	0.355	0.000	0.416
	Left	0.044	0.000	0.632	0.676

Table 11-34
Cellular Band Ant 3 Simultaneous Transmission Scenario with 2.4 GHz WLAN and 2.4 GHz Bluetooth

Simult Tx	Configuration	Cellular Band Ant 3 SAR (W/kg)	Bluetooth Ant 2a SAR (W/kg)	2.4 GHz WLAN Ant 4a SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Body SAR	Back	0.949	1.094	1.035	1.094*
	Top	0.998	0.009	0.274	**1.281**
	Bottom	0.040	0.307	0.004	0.351
	Right	0.907	0.738	0.000	0.907*
	Left	0.059	0.000	0.632	0.691

Table 11-35
Cellular Band Ant 4b Simultaneous Transmission Scenario with 2.4 GHz WLAN and 2.4 GHz Bluetooth

Simult Tx	Configuration	Cellular Band Ant 4b SAR (W/kg)	Bluetooth Ant 2a SAR (W/kg)	2.4 GHz WLAN Ant 4a Reduced at 7.5dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Body SAR	Back	0.998	1.094	0.397	**1.395***
	Top	0.987	0.009	0.128	1.124
	Bottom	0.008	0.307	0.004	0.319
	Right	0.029	0.738	0.000	0.767
	Left	0.066	0.000	0.327	0.393

Table 11-36
2.4 GHz Bluetooth TxBF

Simult Tx	Configuration	Bluetooth Ant 2a SAR (W/kg)	Bluetooth Ant 4a SAR (W/kg)	Σ SAR (W/kg)
		2	3	2+3
Body SAR	Back	1.094	1.007	**1.094***
	Top	0.009	0.429	0.438
	Bottom	0.307	0.012	0.319
	Right	0.738	0.000	0.738
	Left	0.000	0.767	0.767

Table 11-37
NB UNII TxBF

Simult Tx	Configuration	NB UNII Ant 4a SAR (W/kg)	NB UNII Ant 5b SAR (W/kg)	Σ SAR (W/kg)
		2	3	2+3
Body SAR	Back	1.175	0.124	**1.299**
	Top	0.159	0.000	0.159
	Bottom	0.000	0.000	0.000
	Right	0.000	0.977	0.977
	Left	1.003	0.024	1.027

Table 11-38
Cellular Band Ant 1 Simultaneous Transmission Scenario with 6 GHz WLAN MIMO

Simult Tx	Configuration	Cellular Band Ant 1 SAR (W/kg)	6 GHz WLAN Ant 4a SAR (W/kg)	6 GHz WLAN Ant 5b SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Body SAR	Back	0.991	1.130	0.068	**1.198***
	Top	0.047	0.125	0.004	0.176
	Bottom	0.762	0.005	0.003	0.770
	Right	0.067	0.002	0.623	0.692
	Left	0.972	0.192	0.016	1.180

Table 11-39
Cellular Band Ant 2a Simultaneous Transmission Scenario with 6 GHz WLAN MIMO

Simult Tx	Configuration	Cellular Band Ant 2a SAR (W/kg)	6 GHz WLAN Ant 4a SAR (W/kg)	6 GHz WLAN Ant 5b Reduced at 9.0 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Body SAR	Back	0.947	1.130	0.068	**1.198***
	Top	0.011	0.125	0.004	0.140
	Bottom	0.322	0.005	0.003	0.330
	Right	0.995	0.002	0.252	**1.249**
	Left	0.003	0.192	0.016	0.211

Table 11-40
Cellular Band Ant 2b Simultaneous Transmission Scenario with 6 GHz WLAN MIMO

Simult Tx	Configuration	Cellular Band Ant 2b SAR (W/kg)	6 GHz WLAN Ant 4a SAR (W/kg)	6 GHz WLAN Ant 5b Reduced at 9.0 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Body SAR	Back	0.998	1.130	0.068	**1.198***
	Top	0.015	0.125	0.004	0.144
	Bottom	0.885	0.005	0.003	0.893
	Right	0.061	0.002	0.252	0.315
	Left	0.044	0.192	0.016	0.252

Table 11-41
Cellular Band Ant 3 Simultaneous Transmission Scenario with 6 GHz WLAN MIMO

Simult Tx	Configuration	Cellular Band Ant 3 SAR (W/kg)	6 GHz WLAN Ant 4a SAR (W/kg)	6 GHz WLAN Ant 5b SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Body SAR	Back	0.949	1.130	0.068	1.198*
	Top	0.998	0.125	0.004	1.127
	Bottom	0.040	0.005	0.003	0.048
	Right	0.907	0.002	0.623	**1.532**
	Left	0.059	0.192	0.016	0.267

Table 11-42
Cellular Band Ant 4b Simultaneous Transmission Scenario with 6 GHz WLAN MIMO

Simult Tx	Configuration	Cellular Band Ant 4b SAR (W/kg)	6 GHz WLAN Ant 4a Reduced at 6.5 dBm SAR (W/kg)	6 GHz WLAN Ant 5b SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Body SAR	Back	0.998	0.364	0.068	**1.430**
	Top	0.987	0.046	0.004	1.037
	Bottom	0.008	0.005	0.003	0.016
	Right	0.029	0.002	0.623	0.654
	Left	0.066	0.049	0.016	0.131

Table 11-43
Cellular Band Ant 1 Simultaneous Transmission Scenario with 2.4 GHz Bluetooth TxBF and 6 GHz WLAN MIMO

Simult Tx	Configuration	Cellular Band Ant 1 SAR (W/kg)	Bluetooth Ant 2a at 9 dBm SAR (W/kg)	Bluetooth Ant 4a at 9 dBm SAR (W/kg)	6 GHz WLAN Ant 4a SAR (W/kg)	6 GHz WLAN Ant 5b SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.991	0.457	0.334	1.130	0.068	**1.532***
	Top	0.047	0.009	0.096	0.125	0.004	0.281
	Bottom	0.762	0.174	0.012	0.005	0.003	0.956
	Right	0.067	0.355	0.000	0.002	0.623	1.047
	Left	0.972	0.000	0.218	0.192	0.016	1.398

Table 11-44
Cellular Band Ant 2a Simultaneous Transmission Scenario with 2.4 GHz Bluetooth TxBF and 6 GHz WLAN MIMO

Simult Tx	Configuration	Cellular Band Ant 2a SAR (W/kg)	Bluetooth Ant 2a at 6 dBm SAR (W/kg)	Bluetooth Ant 4a at 9 dBm SAR (W/kg)	6 GHz WLAN Ant 4a SAR (W/kg)	6 GHz WLAN Ant 5b Reduced at 9.0 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.947	0.178	0.334	1.130	0.068	**1.532***
	Top	0.011	0.009	0.096	0.125	0.004	0.245
	Bottom	0.322	0.088	0.012	0.005	0.003	0.430
	Right	0.995	0.138	0.000	0.002	0.252	1.387
	Left	0.003	0.000	0.218	0.192	0.016	0.429

Table 11-45
Cellular Band Ant 2b Simultaneous Transmission Scenario with 2.4 GHz Bluetooth TxBF and 6 GHz WLAN MIMO

Simult Tx	Configuration	Cellular Band Ant 2b SAR (W/kg)	Bluetooth Ant 2a at 6 dBm SAR (W/kg)	Bluetooth Ant 4a at 9 dBm SAR (W/kg)	6 GHz WLAN Ant 4a SAR (W/kg)	6 GHz WLAN Ant 5b Reduced at 9.0 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.998	0.178	0.334	1.130	0.068	**1.532***
	Top	0.015	0.009	0.096	0.125	0.004	0.249
	Bottom	0.885	0.088	0.012	0.005	0.003	0.993
	Right	0.061	0.138	0.000	0.002	0.252	0.453
	Left	0.044	0.000	0.218	0.192	0.016	0.472

Table 11-46
Cellular Band Ant 3 Simultaneous Transmission Scenario with 2.4 GHz Bluetooth TxBF and 6 GHz WLAN MIMO

Simult Tx	Configuration	Cellular Band Ant 3 SAR (W/kg)	Bluetooth Ant 2a at 9 dBm SAR (W/kg)	Bluetooth Ant 4a at 7 dBm SAR (W/kg)	6 GHz WLAN Ant 4a SAR (W/kg)	6 GHz WLAN Ant 5b SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.949	0.457	0.180	1.130	0.068	**1.378***
	Top	0.998	0.009	0.055	0.125	0.004	1.191
	Bottom	0.040	0.174	0.012	0.005	0.003	0.234
	Right	0.907	0.355	0.000	0.002	0.623	1.264*
	Left	0.059	0.000	0.130	0.192	0.016	0.397

Table 11-47
Cellular Band Ant 4b Simultaneous Transmission Scenario with 2.4 GHz Bluetooth TxBF and 6 GHz WLAN MIMO

Simult Tx	Configuration	Cellular Band Ant 4b SAR (W/kg)	Bluetooth Ant 2a at 9 dBm SAR (W/kg)	Bluetooth Ant 4a at 7 dBm SAR (W/kg)	6 GHz WLAN Ant 4a Reduced at 6.5 dBm SAR (W/kg)	6 GHz WLAN Ant 5b SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.998	0.457	0.180	0.364	0.068	**1.542***
	Top	0.987	0.009	0.055	0.046	0.004	1.101
	Bottom	0.008	0.174	0.012	0.005	0.003	0.202
	Right	0.029	0.355	0.000	0.002	0.623	1.009
	Left	0.066	0.000	0.130	0.049	0.016	0.261

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

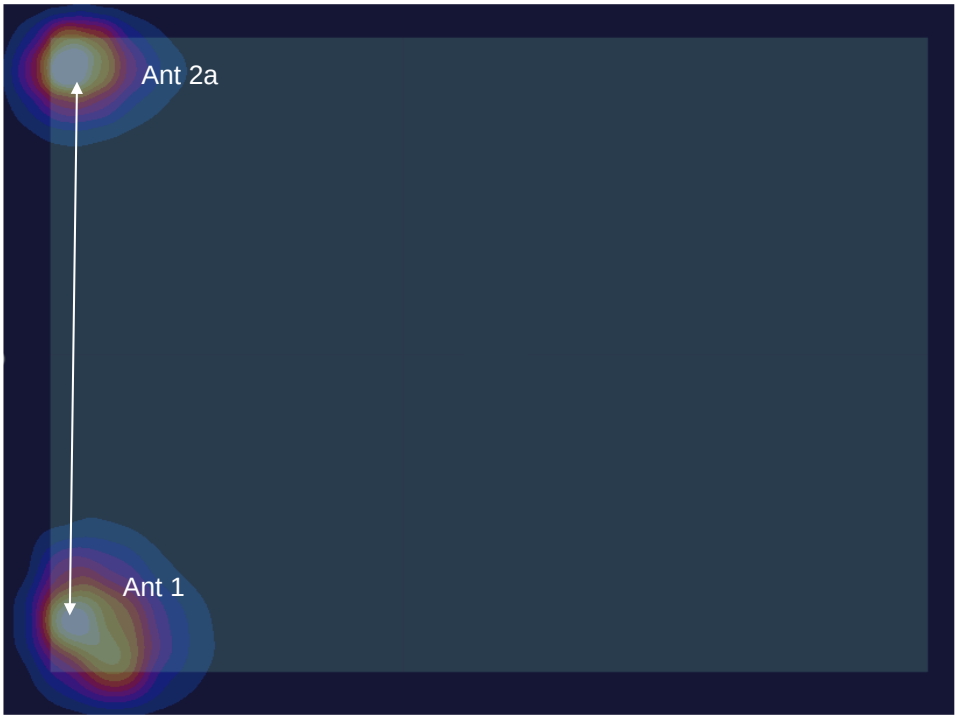

Figure 11-1
Back Side Spatial Separation for Antenna 1 and Antenna 2a

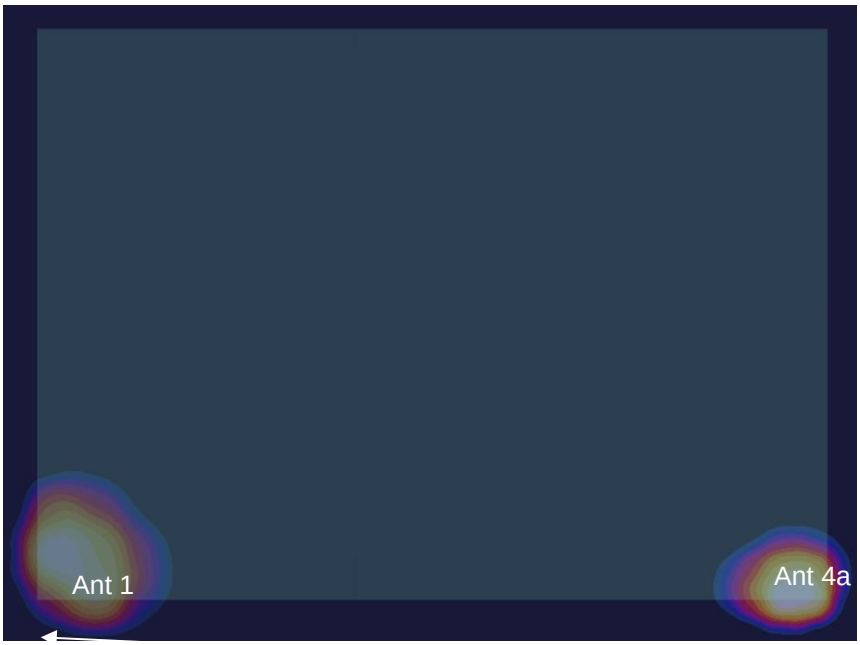

Figure 11-2
Back Side Spatial Separation for Antenna 1 and Antenna 4a

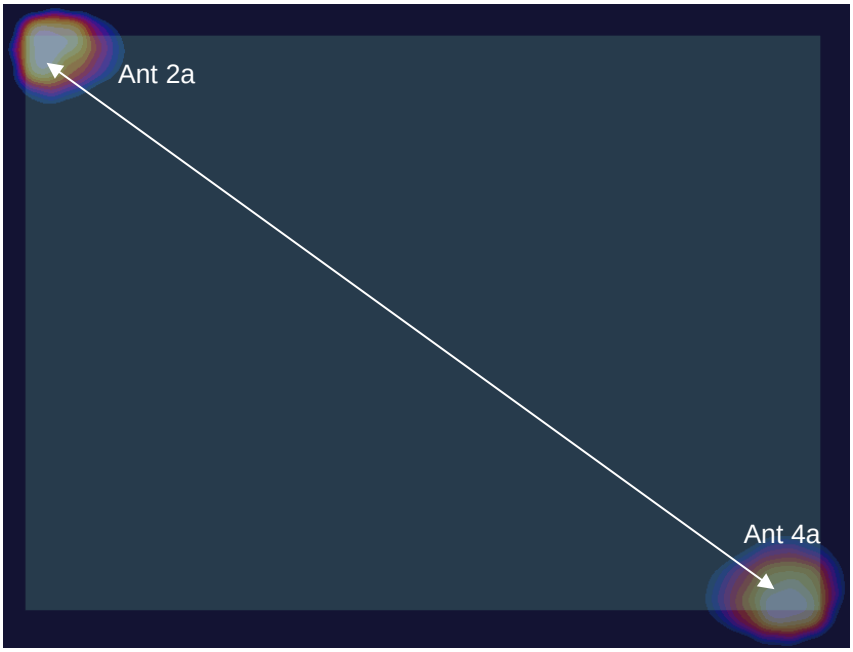

Figure 11-3
Back Side Spatial Separation for Antenna 2a and Antenna 4a

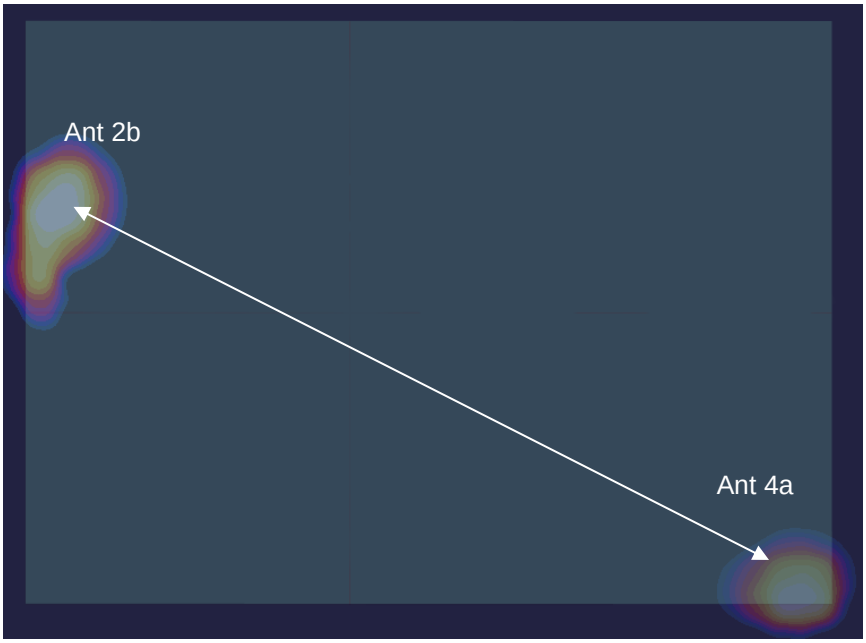

Figure 11-4
Back Side Spatial Separation for Antenna 2b and Antenna 4a

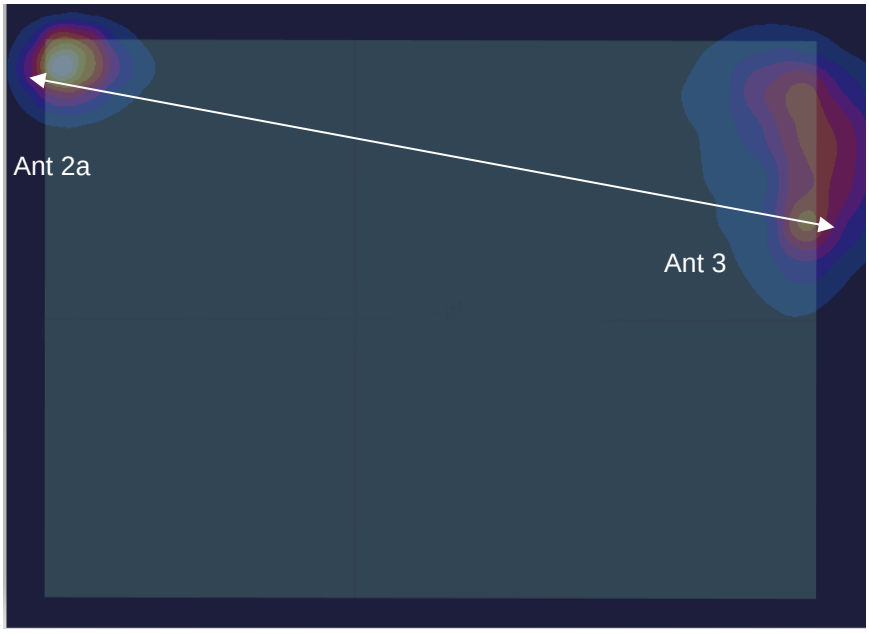

Figure 11-4
Back Side Spatial Separation for Antenna 3 and Antenna 2a

Figure 11-5
Back Side Spatial Separation for Antenna 3 and Antenna 4a

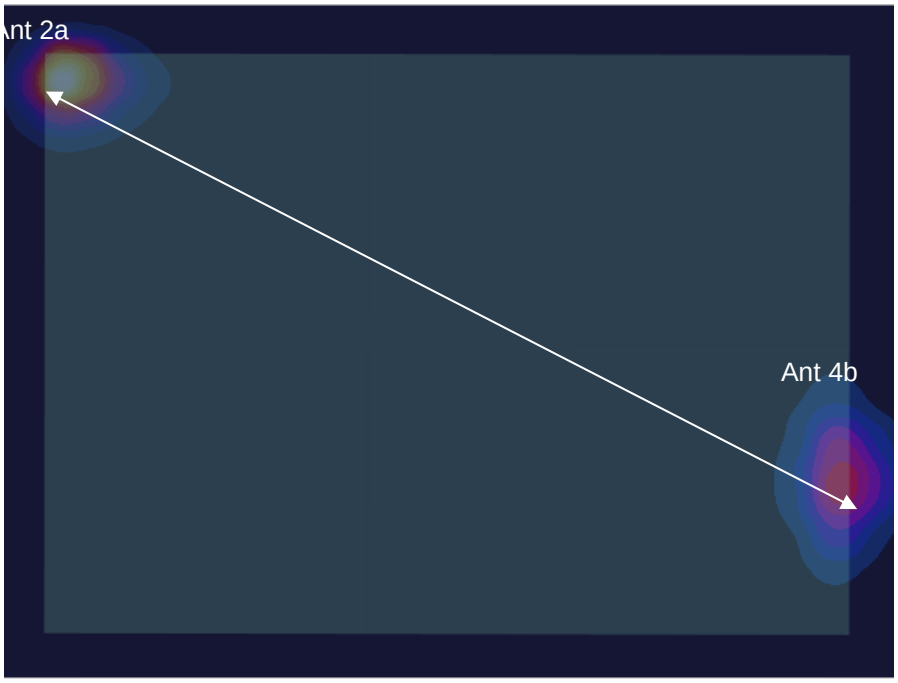

Figure 11-6
Back Side Spatial Separation for Antenna 4b and Antenna 2a

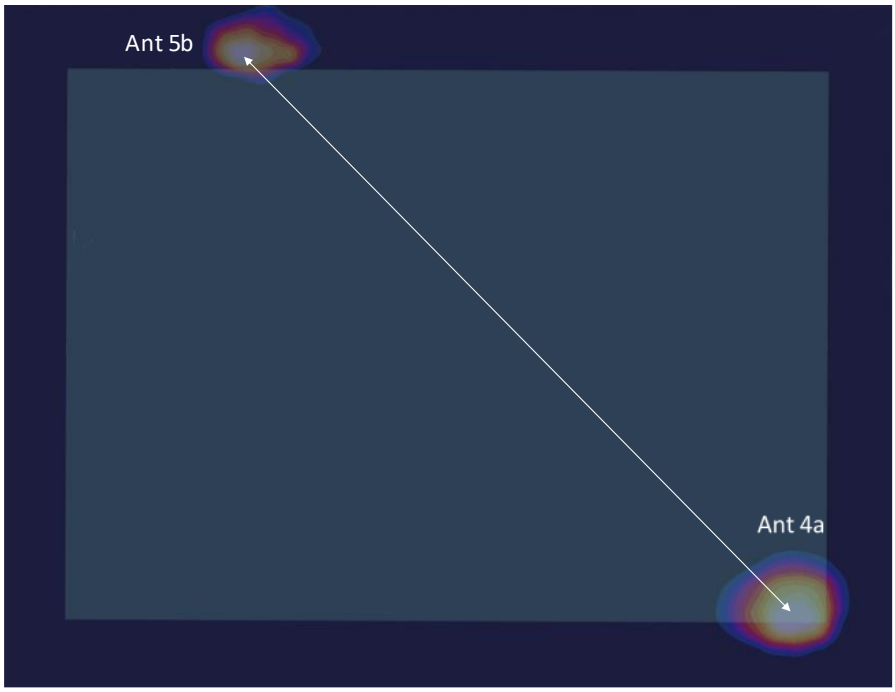

Figure 11-7
Back Side Spatial Separation for Antenna 5b and Antenna 4a

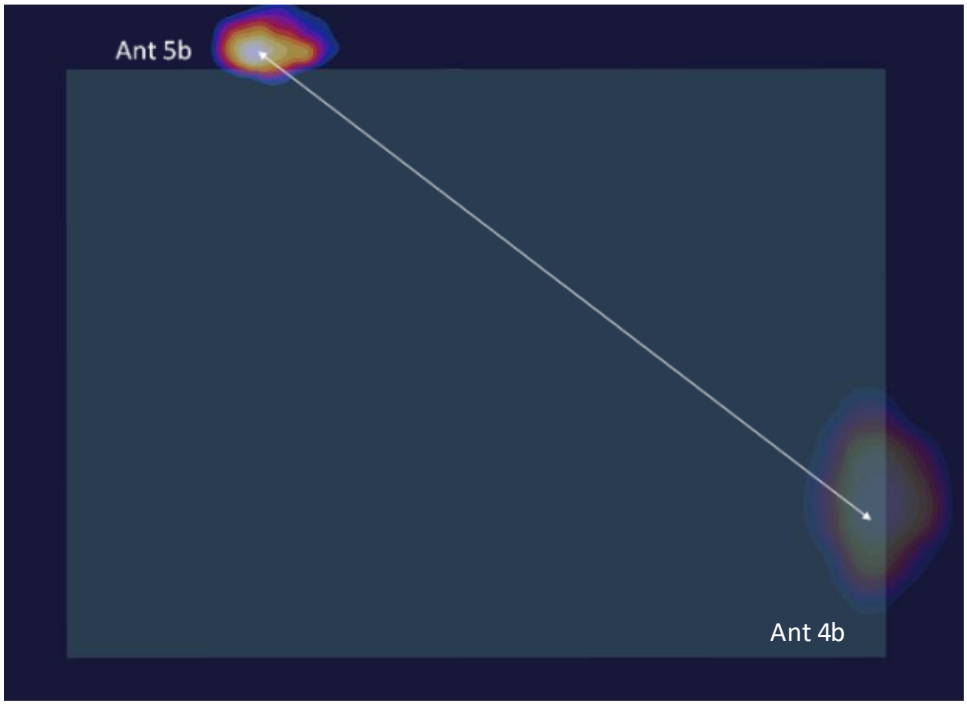

Figure 11-7
Back Side Spatial Separation for Antenna 5b and Antenna 4b

11.4.2 Right Edge Spatial Separation Analysis

Figure 11-9
Right Edge Spatial Separation for Antenna 3 and Antenna 5b

Figure 11-10
Right Edge Spatial Separation for Antenna 3 and Antenna 2a

11.4.1 Left Edge Spatial Separation Analysis

Figure 11-11
Left Edge Spatial Separation for Antenna 1 and Antenna 4a

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 D01v06 and IEEE 1528-2013 Section 6.3.4.1.2.

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	Waveform	Service	Ant	Data Rate (Mbps)	Side	Spacing	Measured SAR (1g)	1st Repeated SAR (1g)	Ratio	2nd Repeated SAR (1g)	Ratio	3rd Repeated SAR (1g)	Ratio
	MHz	Ch.								(W/kg)	(W/kg)		(W/kg)		(W/kg)	
750	680.50	133297	LTE Band 71, 20 MHz Bandwidth	N/A	QPSK, 100 RB, 0 RB Offset	Ant 3	N/A	top	0 mm	0.847	0.732	1.16	N/A	N/A	N/A	N/A
2300	2310.00	27710	LTE Band 30, 10 MHz Bandwidth	N/A	QPSK, 25 RB, 12 RB Offset	Ant 4b	N/A	back	0 mm	0.831	0.799	1.04	N/A	N/A	N/A	N/A
2450	2412.00	1	802.11b, 22 MHz Bandwidth	N/A	N/A	Ant 4a	1.00	back	0 mm	0.805	0.798	1.01	N/A	N/A	N/A	N/A
3500	3500.01	633334	NR Band n77 DoD PC2, 100 MHz Bandwidth	CP-OFDM	QPSK, 1 RB, 1 RB Offset	Ant 2a	0.00	right	0 mm	0.855	0.786	1.09	N/A	N/A	N/A	N/A
3700	3750.00	650000	NR Band n77 PC2, 100 MHz Bandwidth	DFT-S-OFDM	QPSK, 1 RB, 1 RB Offset	Ant 3	0.00	back	0 mm	0.816	0.757	1.08	N/A	N/A	N/A	N/A
3900	3930.00	662000	NR Band n77 PC2, 100 MHz Bandwidth	DFT-S-OFDM	QPSK, 135 RB, 0 RB Offset	Ant 2a	0.00	right	0 mm	0.836	0.798	1.05	N/A	N/A	N/A	N/A
5250	5245.00	N/A	NB UNII 1	N/A	N/A	Ant 4a	4.00	back	0 mm	0.917	0.895	1.00	N/A	N/A	N/A	N/A
5600	5610.00	122	802.11ac, 80 MHz Bandwidth	N/A	OFDM	Ant 5b	29.30	back	0 mm	0.955	0.896	1.07	N/A	N/A	N/A	N/A
5750	5844.00	N/A	NB UNII 3	N/A	N/A	Ant 4a	4.00	back	0 mm	1.090	1.090	1.00	N/A	N/A	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						

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.

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)	15.8	17.4
Measured Output Power (dBm)	14.95	16.39
Measured SAR (W/kg)	0.666	0.574
Measured Power (mW)	31.26	43.55
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	19.79	18.86
% deviation from expected linearity		-9.56%

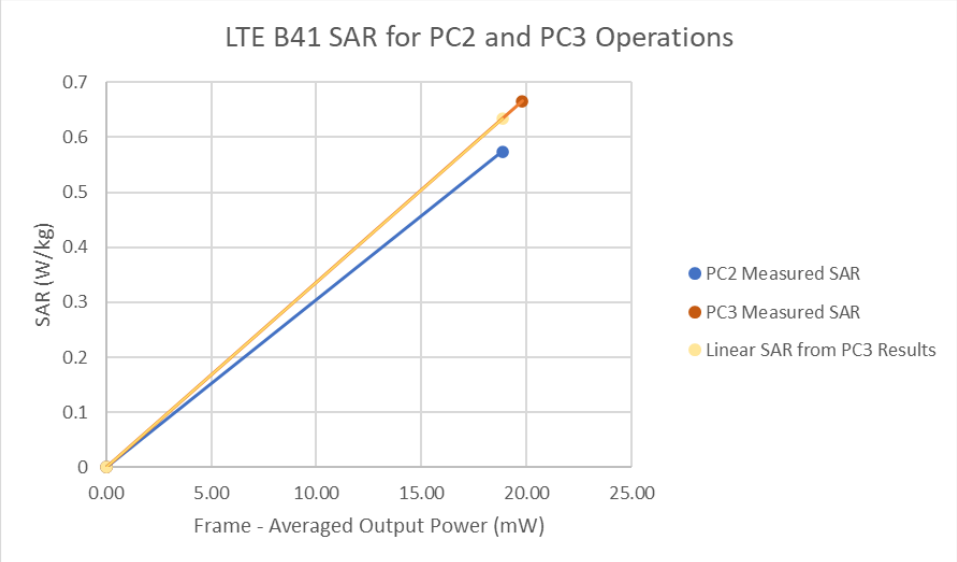

Figure 13-1
LTE Band 41 Body Linearity – Antenna 1

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)	15.80	17.40
Measured Output Power (dBm)	14.6	16.26
Measured SAR (W/kg)	0.603	0.557
Measured Power (mW)	28.84	42.27
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	18.26	18.30
% deviation from expected linearity		-7.86%

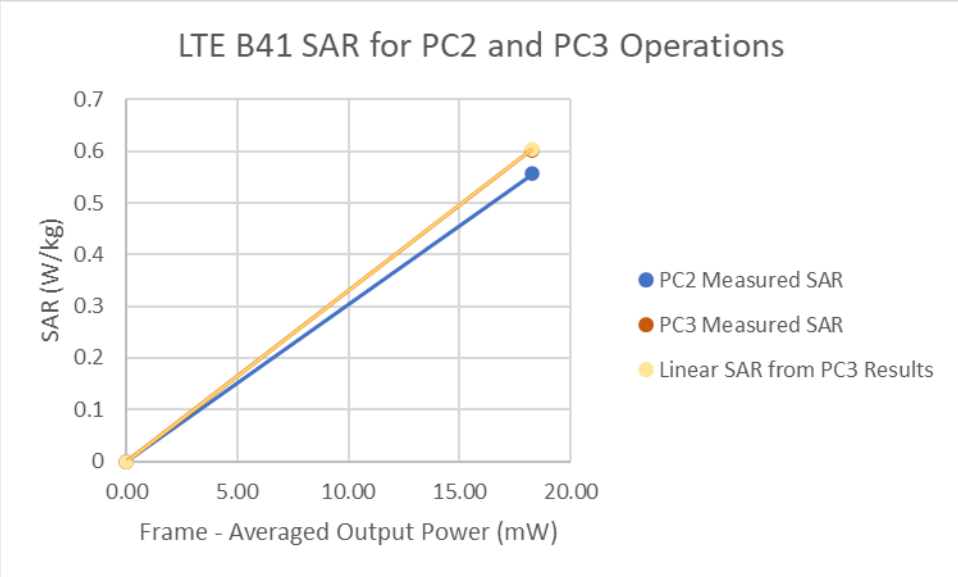

Figure 13-2
LTE Band 41 ULCA Body Linearity – Antenna 1

Table 13-3
LTE Band 41 Body Linearity Data – Antenna 2b

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	14.20	15.80
Measured Output Power (dBm)	13.41	14.27
Measured SAR (W/kg)	0.765	0.576
Measured Power (mW)	21.93	26.73
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	13.88	11.57
% deviation from expected linearity		-9.70%

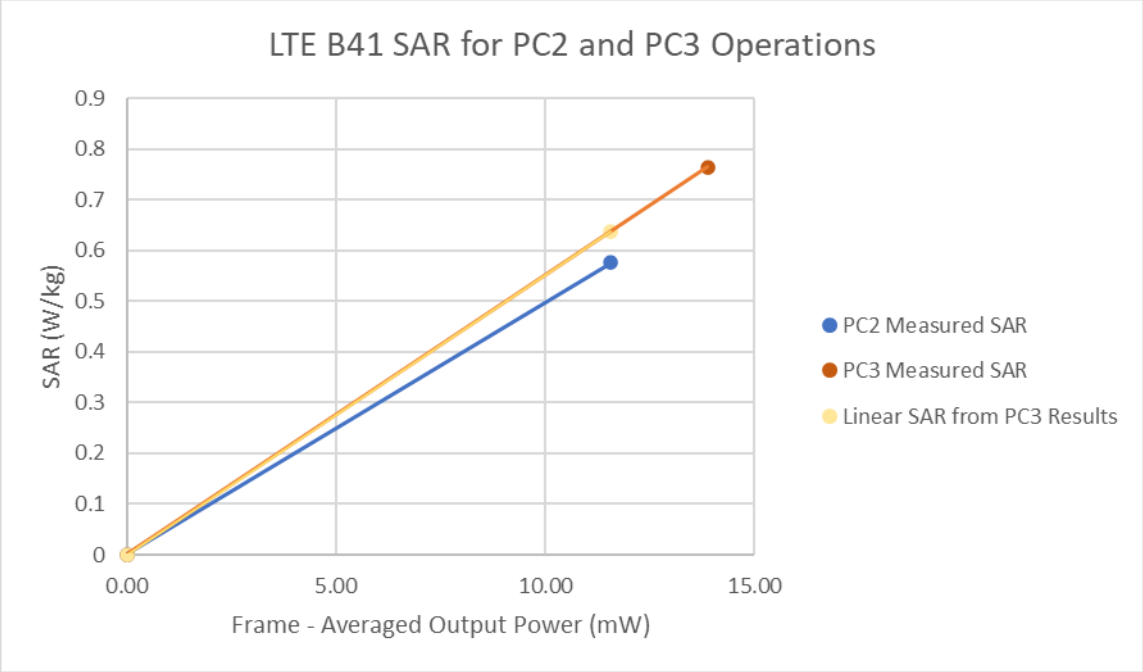

Figure 13-3
LTE Band 41 Body Linearity – Antenna 2b

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)	14.20	15.80
Measured Output Power (dBm)	13.03	14.40
Measured SAR (W/kg)	0.671	0.607
Measured Power (mW)	20.09	27.54
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	12.72	11.93
% deviation from expected linearity		-3.53%

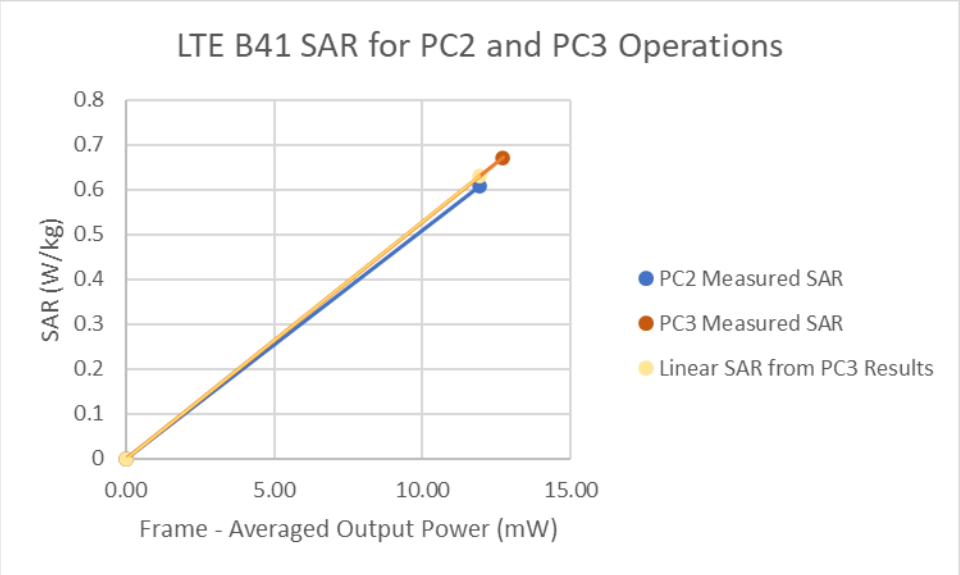

Figure 13-4
LTE Band 41 ULCA Body Linearity – Antenna 2b

Table 13-5
LTE Band 41 Body Linearity Data – Antenna 3

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	17.20	18.80
Measured Output Power (dBm)	15.38	17.78
Measured SAR (W/kg)	0.596	0.729
Measured Power (mW)	34.51	59.98
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	21.85	25.97
% deviation from expected linearity		2.90%

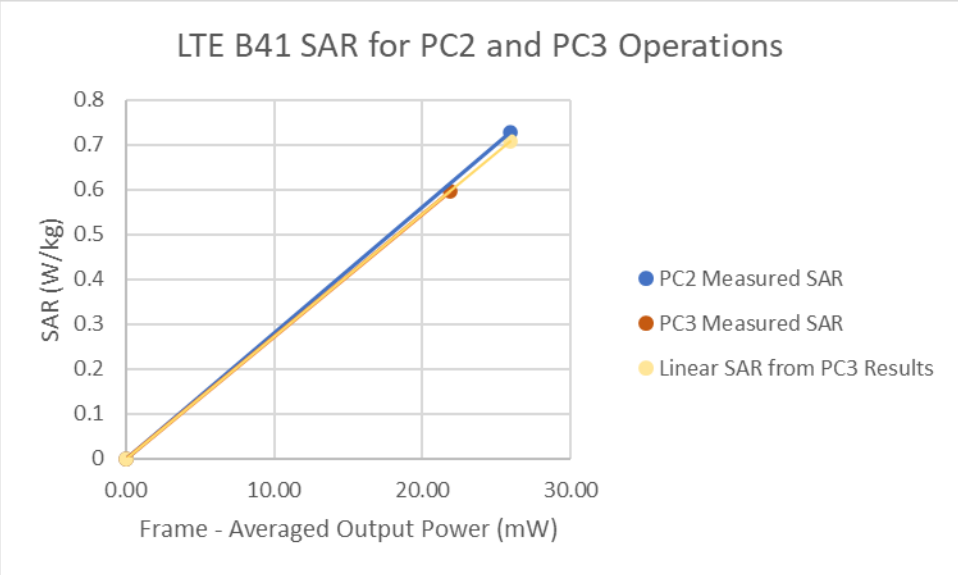

Figure 13-5
LTE Band 41 Body Linearity – Antenna 3

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)	17.20	18.80
Measured Output Power (dBm)	15.91	17.73
Measured SAR (W/kg)	0.662	0.708
Measured Power (mW)	38.99	59.29
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	24.68	25.67
% deviation from expected linearity		2.82%

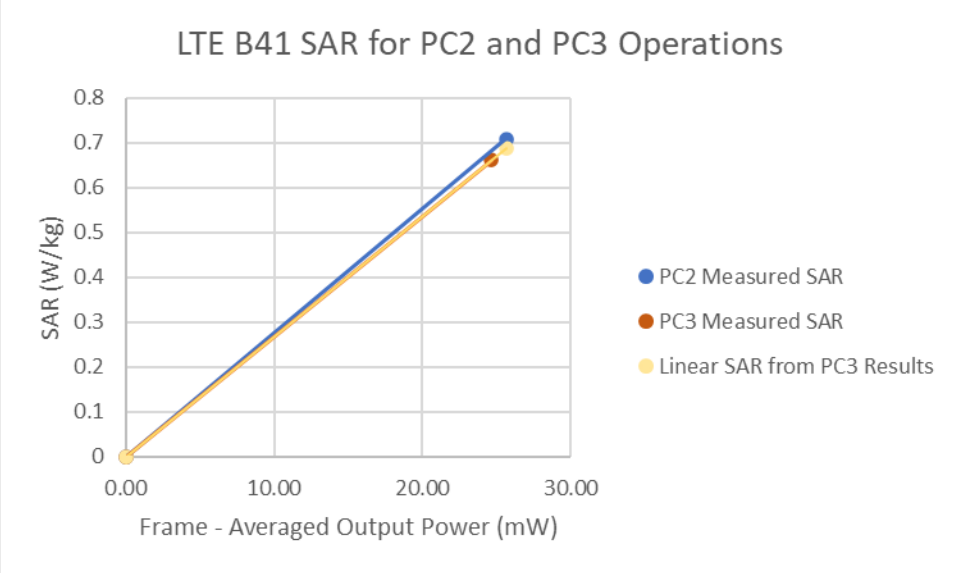

Figure 13-6
LTE Band 41 ULCA Body Linearity – Antenna 3

Table 13-7
LTE Band 41 Body Linearity Data – Antenna 4b

	LTE Band 41 PC3	LTE Band 41 PC2
imum Allowed Output Power (dBm)	14.80	16.40
sured Output Power (dBm)	13.16	15.19
sured SAR (W/kg)	0.671	0.694
sured Power (mW)	20.70	33.04
/ Cycle	63.3%	43.3%
ne Averaged Output Power (mW)	13.10	14.31
eviation from expected linearity		-5.26%

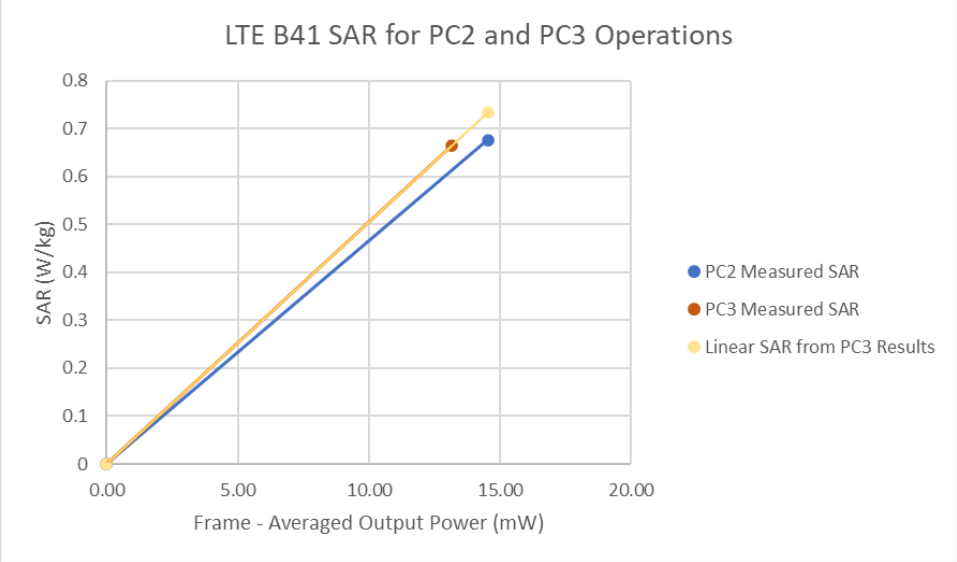

Figure 13-7
LTE Band 41 Body Linearity – Antenna 4b

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)	14.80	16.40
Measured Output Power (dBm)	13.3	15.47
Measured SAR (W/kg)	0.666	0.741
Measured Power (mW)	21.38	35.24
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	13.53	15.26
% deviation from expected linearity		-1.31%

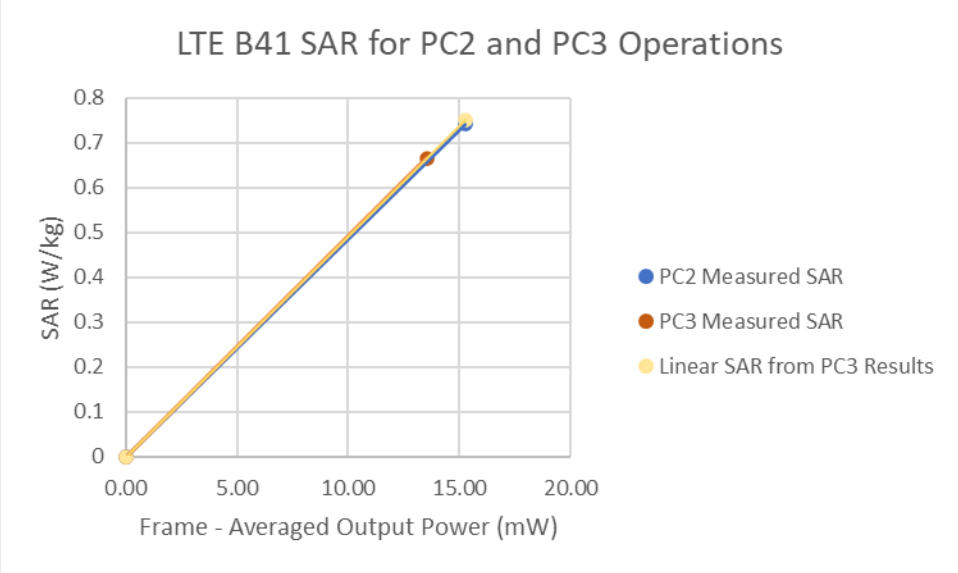

Figure 13-8
LTE Band 41 ULCA Body Linearity – Antenna 4b

14 EQUIPMENT LIST

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
Agilent	E4404B	Spectrum Analyzer	N/A	N/A	N/A	MY45113242
Agilent	E4438C	ESG Vector Signal Generator	3/24/2022	Annual	3/24/2023	MY45093678
Agilent	E4438C	ESG Vector Signal Generator	3/22/2022	Annual	3/22/2023	US41460739
Agilent	N5182A	MXG Vector Signal Generator	1/12/2022	Annual	1/12/2023	MY47420837
Agilent	N5182A	MXG Vector Signal Generator	11/17/2021	Annual	11/17/2022	US46240505
Agilent	8753ES	S-Parameter Vector Network Analyzer	6/14/2022	Annual	6/14/2023	US39170118
Agilent	8753ES	S-Parameter Vector Network Analyzer	2/11/2022	Annual	2/11/2023	MY40003841
Agilent	E5515C	Wireless Communications Test Set	5/4/2021	Biennial	5/4/2023	GB41450275
Agilent	E5515C	Wireless Communications Test Set	1/14/2020	Triennial	1/14/2023	GB43304447
Agilent	N4010A	Wireless Connectivity Test Set	N/A	N/A	N/A	GB46170464
Amplifier Research	15S1G6	Amplifier	CBT	N/A	CBT	343972
Amplifier Research	15S1G6	Amplifier	CBT	N/A	CBT	343971
Anritsu	ML2496A	Power Meter	3/31/2022	Annual	3/31/2023	1138001
Anritsu	ML2496A	Power Meter	3/29/2022	Annual	3/29/2023	1306009
Anritsu	MA2411B	Pulse Power Sensor	3/28/2022	Annual	3/28/2023	1339007
Anritsu	MA2411B	Pulse Power Sensor	3/2/2022	Annual	3/2/2023	1126066
Anritsu	MT8821C	Radio Communication Analyzer MT8821C	5/11/2022	Annual	5/11/2023	6262044715
Anritsu	MT8821C	Radio Communication Analyzer MT8821C	5/2/2022	Annual	5/2/2023	6200901190
Anritsu	MT8821C	Radio Communication Analyzer MT8821C	7/18/2021	Annual	7/18/2022	6201381794
Anritsu	MT8821C	Radio Communication Analyzer MT8821C	7/18/2021	Annual	7/18/2022	6262150047
Anritsu	MT8000A	Radio Communication Test Station	4/15/2022	Annual	4/15/2023	6272337439
Anritsu	MT8000A	Radio Communication Test Station	4/20/2022	Annual	4/20/2023	6262036828
Anritsu	MT8000A	Radio Communication Test Station	3/30/2022	Annual	3/30/2023	6261914237
Anritsu	MA24106A	USB Power Sensor	3/28/2022	Annual	3/28/2023	1520503
Anritsu	MA24106A	USB Power Sensor	3/28/2022	Annual	3/28/2023	1520501
Control Company	4353	Long Stem Thermometer	10/28/2020	Biennial	10/28/2022	200670623
Control Company	4353	Long Stem Thermometer	10/28/2020	Biennial	10/28/2022	200670633
Control Company	4353	Long Stem Thermometer	10/28/2020	Biennial	10/28/2022	200670635
Control Company	4040	Therm./ Clock/ Humidity Monitor	1/21/2022	Annual	1/21/2023	160574418
Mitutoyo	500-196-30	CD-6"ASX 6Inch Digital Caliper	2/16/2022	Triennial	2/16/2025	A20238413
Keysight Technologies	N6705B	DC Power Analyzer	5/5/2021	Triennial	5/5/2024	MY53004059
Keysight Technologies	N9020A	MXA Signal Analyzer	4/14/2022	Annual	4/14/2023	MY48010233
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	7/6/2021	Annual	7/6/2022	31634
Mini-Circuits	BW-N20W5+	DC to 18 GHz Precision Fixed 20 dB Attenuator	CBT	N/A	CBT	N/A
Mini-Circuits	NLP-1200+	Low Pass Filter DC to 1000 MHz	CBT	N/A	CBT	N/A
Mini-Circuits	NLP-2950+	Low Pass Filter DC to 2700 MHz	CBT	N/A	CBT	N/A
Mini-Circuits	BW-N20W5	Power Attenuator	CBT	N/A	CBT	1226
Mini-Circuits	ZUDC10-83-S+	Directional Coupler	9/15/2021	Annual	9/15/2022	2111
Narda	4772-3	Attenuator (3dB)	CBT	N/A	CBT	9406
Narda	BW-53W2	Attenuator (3dB)	CBT	N/A	CBT	120
Huber + Suhner	74Z-0-0-21	Torque Wrench	4/6/2022	Annual	4/6/2024	83881
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	4/14/2022	Annual	4/14/2023	167284
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	4/14/2022	Annual	4/14/2023	167285
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	1/11/2022	Annual	1/11/2023	101699
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	12/22/2021	Annual	12/21/2022	106578
SPEAG	DAK-3.5	Dielectric Assessment Kit	5/12/2022	Annual	5/12/2023	1070
SPEAG	DAKS-3.5	Portable Dielectric Assessment Kit	10/7/2021	Annual	10/7/2022	1045
SPEAG	MAIA	Modulation and Audio Interference Analyzer	N/A	N/A	N/A	1237
Keysight Technologies	85033E	Standard Mechanical Calibration Kit (DC to 9GHz, 3.5mm)	9/27/2021	Annual	9/27/2022	MY53401181
SPEAG	D750V3	750 MHz SAR Dipole	9/8/2020	Biennial	9/8/2022	1097
SPEAG	D750V3	750 MHz SAR Dipole	5/16/2022	Annual	5/16/2023	1057
SPEAG	D835V2	835 MHz SAR Dipole	11/11/2019	Triennial	11/11/2022	4d108
SPEAG	D835V2	835 MHz SAR Dipole	5/16/2022	Annual	5/16/2023	4d040
SPEAG	D1750V2	1750 MHz SAR Dipole	9/9/2020	Biennial	9/9/2022	1104
SPEAG	D1750V2	1750 MHz SAR Dipole	5/10/2022	Annual	5/10/2023	1083
SPEAG	D1900V2	1900 MHz SAR Dipole	8/10/2020	Biennial	8/10/2022	5d180
SPEAG	D1900V2	1900 MHz SAR Dipole	9/10/2020	Biennial	9/10/2022	5d181
SPEAG	D1900V2	1900 MHz SAR Dipole	5/16/2022	Annual	5/16/2023	5d030
SPEAG	D2300V2	2300 MHz SAR Dipole	11/10/2020	Biennial	11/10/2022	1064
SPEAG	D2450V2	2450 MHz SAR Dipole	11/9/2021	Annual	11/9/2022	921
SPEAG	D2450V2	2450 MHz SAR Dipole	11/12/2019	Triennial	11/12/2022	855
SPEAG	D2450V2	2450 MHz SAR Dipole	5/11/2022	Annual	5/11/2023	750
SPEAG	D2600V2	2600 MHz SAR Dipole	9/9/2020	Biennial	9/9/2022	1069
SPEAG	D2600V2	2600 MHz SAR Dipole	5/11/2022	Annual	5/11/2023	1042
SPEAG	D3500V2	3500 MHz SAR Dipole	8/16/2019	Triennial	8/16/2022	1055
SPEAG	D3700V2	3700 MHz SAR Dipole	10/17/2019	Triennial	10/17/2022	1002
SPEAG	D3900V2	3900 MHz SAR Dipole	11/13/2020	Biennial	11/13/2022	1062
SPEAG	D5GHzV2	5 GHz SAR Dipole	3/22/2022	Annual	3/22/2023	1123
SPEAG	DAE4	Dasy Data Acquisition Electronics	4/13/2022	Annual	4/13/2023	1582
SPEAG	DAE4	Dasy Data Acquisition Electronics	3/22/2022	Annual	3/22/2023	604
SPEAG	DAE4	Dasy Data Acquisition Electronics	4/13/2022	Annual	4/13/2022	1465
SPEAG	DAE4	Dasy Data Acquisition Electronics	2/24/2022	Annual	2/24/2023	467
SPEAG	DAE4	Dasy Data Acquisition Electronics	4/13/2022	Annual	4/13/2023	501
SPEAG	DAE4	Dasy Data Acquisition Electronics	3/21/2022	Annual	3/21/2023	534
SPEAG	DAE4	Dasy Data Acquisition Electronics	1/13/2022	Annual	1/13/2023	793
SPEAG	DAE4	Dasy Data Acquisition Electronics	1/18/2021	Annual	11/18/2022	1237
SPEAG	DAE4	Dasy Data Acquisition Electronics	4/14/2022	Annual	4/14/2023	1402
SPEAG	DAE4	Dasy Data Acquisition Electronics	2/22/2022	Annual	2/22/2023	1403
SPEAG	DAE4	Dasy Data Acquisition Electronics	5/16/2022	Annual	5/16/2023	701
SPEAG	DAE4	Dasy Data Acquisition Electronics	11/11/2021	Annual	11/11/2022	1646
SPEAG	DAE4	Dasy Data Acquisition Electronics	3/21/2022	Annual	3/21/2023	1408
SPEAG	EX3DV4	SAR Probe	9/6/2021	Annual	9/6/2022	7674
SPEAG	EX3DV4	SAR Probe	3/22/2022	Annual	3/22/2023	7421
SPEAG	EX3DV4	SAR Probe	4/19/2022	Annual	4/19/2023	7499
SPEAG	EX3DV4	SAR Probe	4/22/2022	Annual	4/22/2023	7546
SPEAG	EX3DV4	SAR Probe	4/22/2022	Annual	4/22/2023	7532
SPEAG	EX3DV4	SAR Probe	1/19/2022	Annual	1/19/2023	3837
SPEAG	EX3DV4	SAR Probe	2/22/2022	Annual	2/22/2023	7427
SPEAG	EX3DV4	SAR Probe	2/21/2022	Annual	2/21/2023	7308
SPEAG	EX3DV4	SAR Probe	3/21/2022	Annual	3/21/2023	7360
SPEAG	EX3DV4	SAR Probe	5/18/2022	Annual	5/18/2023	7416
SPEAG	EX3DV4	SAR Probe	10/27/2021	Annual	10/27/2022	7420
SPEAG	EX3DV4	SAR Probe	11/16/2021	Annual	11/16/2022	7639
SPEAG	EX3DV4	SAR Probe	3/22/2022	Annual	3/22/2023	7638

*All equipment was used solely within its respective calibration period

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.

15 MEASUREMENT UNCERTAINTIES

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	E.2.1	7	N	1	1	1	7.0	7.0	∞
Axial Isotropy	E.2.2	0.25	N	1	0.7	0.7	0.2	0.2	∞
Hemishperical Isotropy	E.2.2	1.3	N	1	0.7	0.7	0.9	0.9	∞
Boundary Effect	E.2.3	2	R	1.732	1	1	1.2	1.2	∞
Linearity	E.2.4	0.3	N	1	1	1	0.3	0.3	∞
System Detection Limits	E.2.4	0.25	R	1.732	1	1	0.1	0.1	∞
Modulation Response	E.2.5	4.8	R	1.732	1	1	2.8	2.8	∞
Readout Electronics	E.2.6	0.3	N	1	1	1	0.3	0.3	∞
Response Time	E.2.7	0.8	R	1.732	1	1	0.5	0.5	∞
Integration Time	E.2.8	2.6	R	1.732	1	1	1.5	1.5	∞
RF Ambient Conditions - Noise	E.6.1	3	R	1.732	1	1	1.7	1.7	∞
RF Ambient Conditions - Reflections	E.6.1	3	R	1.732	1	1	1.7	1.7	∞
Probe Positioner Mechanical Tolerance	E.6.2	0.8	R	1.732	1	1	0.5	0.5	∞
Probe Positioning w/ respect to Phantom	E.6.3	6.7	R	1.732	1	1	3.9	3.9	∞
Extrapolation, Interpolation & Integration algorithms for Max. SAR Evaluation	E.5	4	R	1.732	1	1	2.3	2.3	∞
Test Sample Related									
Test Sample Positioning	E.4.2	3.12	N	1	1	1	3.1	3.1	35
Device Holder Uncertainty	E.4.1	1.67	N	1	1	1	1.7	1.7	5
Output Power Variation - SAR drift measurement	E.2.9	5	R	1.732	1	1	2.9	2.9	∞
SAR Scaling	E.6.5	0	R	1.732	1	1	0.0	0.0	∞
Phantom & Tissue Parameters									
Phantom Uncertainty (Shape & Thickness tolerances)	E.3.1	7.6	R	1.73	1.0	1.0	4.4	4.4	∞
Liquid Conductivity - measurement uncertainty	E.3.3	4.3	N	1	0.78	0.71	3.3	3.0	76
Liquid Permittivity - measurement uncertainty	E.3.3	4.2	N	1	0.23	0.26	1.0	1.1	75
Liquid Conductivity - Temperature Uncertainty	E.3.4	3.4	R	1.732	0.78	0.71	1.5	1.4	∞
Liquid Permittivity - Temperature Unceritainty	E.3.4	0.6	R	1.732	0.23	0.26	0.1	0.1	∞
Liquid Conductivity - deviation from target values	E.3.2	5.0	R	1.73	0.64	0.43	1.8	1.2	∞
Liquid Permittivity - deviation from target values	E.3.2	5.0	R	1.73	0.60	0.49	1.7	1.4	∞
Combined Standard Uncertainty (k=1)			RSS				12.2	12.0	191
Expanded Uncertainty (95% CONFIDENCE LEVEL)			k=2				24.4	24.0	

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

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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