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SAR EVALUATION REPORT

Applicant Name:
Samsung Electronics Co., Ltd.
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Gyeonggi-do, 16677, Korea

Date of Testing:
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Test Site/Location:
PCTEST Lab, Columbia, MD, USA
Document Serial No.:
1M2009230152-01-R2.A3L

FCC ID: **A3LSMG998U**

APPLICANT: **SAMSUNG ELECTRONICS CO., LTD.**

DUT Type: Portable Handset
Application Type: Certification
FCC Rule Part(s): CFR §2.1093
Model: SM-G998U
Additional Model: SM-G998U1

Equipment Class	Band & Mode	Tx Frequency	SAR			
			1g Head (W/kg)	1g Body-Worn (W/kg)	1g Hotspot (W/kg)	10g Phablet (W/kg)
PCE	CDMA/EVDO BC10 (§90S)	817.90 - 823.10 MHz	0.23	0.33	0.68	N/A
PCE	CDMA/EVDO BC0 (§22H)	824.70 - 848.31 MHz	0.24	0.34	0.75	N/A
PCE	PCS CDMA/EVDO	1851.25 - 1908.75 MHz	< 0.1	0.48	1.05	1.72
PCE	GSM/GPRS/EDGE 850	824.20 - 848.80 MHz	0.12	0.18	0.52	N/A
PCE	GSM/GPRS/EDGE 1900	1850.20 - 1909.80 MHz	< 0.1	0.28	0.91	0.95
PCE	UMTS 850	826.40 - 846.60 MHz	0.21	0.29	0.72	N/A
PCE	UMTS 1750	1712.4 - 1752.6 MHz	0.14	0.72	0.96	1.80
PCE	UMTS 1900	1852.4 - 1907.6 MHz	0.10	0.50	0.99	1.20
PCE	LTE Band 71	665.5 - 695.5 MHz	0.15	0.24	0.37	N/A
PCE	LTE Band 12	699.7 - 715.3 MHz	0.17	0.24	0.41	N/A
PCE	LTE Band 13	779.5 - 784.5 MHz	0.20	0.25	0.53	N/A
PCE	LTE Band 14	790.5 - 795.5 MHz	0.19	0.28	0.62	N/A
PCE	LTE Band 26 (Cell)	814.7 - 848.3 MHz	0.20	0.27	0.56	N/A
PCE	LTE Band 5 (Cell)	824.7 - 848.3 MHz	0.22	0.33	0.73	N/A
PCE	LTE Band 66 (AWS)	1710.7 - 1779.3 MHz	0.16	0.84	1.14	1.98
PCE	LTE Band 4 (AWS)	1710.7 - 1754.3 MHz	N/A	N/A	N/A	N/A
PCE	LTE Band 25 (PCS)	1850.7 - 1914.3 MHz	0.18	0.76	1.09	1.60
PCE	LTE Band 2 (PCS)	1850.7 - 1909.3 MHz	N/A	N/A	N/A	N/A
PCE	LTE Band 30	2307.5 - 2312.5 MHz	< 0.1	0.47	1.08	2.04
PCE	LTE Band 7	2502.5 - 2567.5 MHz	0.11	0.34	0.76	2.04
CBE	LTE Band 48	3552.5 - 3697.5 MHz	0.49	0.20	0.63	N/A
PCE	LTE Band 41	2498.5 - 2687.5 MHz	< 0.1	0.49	0.51	1.22
PCE	LTE Band 38	2572.5 - 2617.5 MHz	N/A	N/A	N/A	N/A
PCE	NR Band n71	665.5 - 695.5 MHz	0.16	0.26	0.41	N/A
PCE	NR Band n12	701.5 - 713.5 MHz	0.16	0.28	0.46	N/A
PCE	NR Band n5 (Cell)	826.5 - 846.5 MHz	0.23	0.33	0.78	N/A
PCE	NR Band n66 (AWS)	1712.5 - 1777.5 MHz	0.77	1.02	1.02	2.08
PCE	NR Band n25 (PCS)	1852.5 - 1912.5 MHz	0.49	0.53	1.06	1.69
PCE	NR Band n2 (PCS)	1852.5 - 1907.5 MHz	N/A	N/A	N/A	N/A
PCE	NR Band n30	2307.5 - 2312.5 MHz	< 0.1	0.73	1.16	2.18
PCE	NR Band n41	2506.02 - 2679.99 MHz	0.41	0.13	< 0.1	0.39
PCE	NR Band n77	3710.01 - 3969.99 MHz	0.34	0.18	0.35	2.64
DTS	2.4 GHz WLAN	2412 - 2462 MHz	0.31	0.21	0.46	N/A
NII	U-NII-1	5180 - 5240 MHz	N/A	N/A	N/A	N/A
NII	U-NII-2A	5260 - 5320 MHz	0.15*	0.46*	N/A	2.19*
NII	U-NII-2C	5500 - 5720 MHz	< 0.1*	0.34*	N/A	1.03*
NII	U-NII-3	5745 - 5825 MHz	< 0.1*	0.47*	0.49*	N/A*
DSS/DTS	Bluetooth	2402 - 2480 MHz	0.14	< 0.1	0.12	N/A
Simultaneous SAR per KDB 690783 D01v01r03:			1.17	1.57	1.59	3.15

* Note: * SAR values represent RF exposure during MIMO operations.

Note: This revised Test Report (S/N: 1M2009230152-01-R2.A3L) 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 1.9 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.

Randy Ortanez
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
CDMA/EVDO BC10 (§90S)	Voice/Data	817.90 - 823.10 MHz
CDMA/EVDO BC0 (§22H)	Voice/Data	824.70 - 848.31 MHz
PCS CDMA/EVDO	Voice/Data	1851.25 - 1908.75 MHz
GSM/GPRS/EDGE 850	Voice/Data	824.20 - 848.80 MHz
GSM/GPRS/EDGE 1900	Voice/Data	1850.20 - 1909.80 MHz
UMTS 850	Voice/Data	826.40 - 846.60 MHz
UMTS 1750	Voice/Data	1712.4 - 1752.6 MHz
UMTS 1900	Voice/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 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 48	Voice/Data	3552.5 - 3697.5 MHz
LTE Band 41	Voice/Data	2498.5 - 2687.5 MHz
LTE Band 38	Voice/Data	2572.5 - 2617.5 MHz
NR Band n71	Data	665.5 - 695.5 MHz
NR Band n12	Data	701.5 - 713.5 MHz
NR Band n5 (Cell)	Data	826.5 - 846.5 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 n41	Data	2506.02 - 2679.99 MHz
NR Band n77	Data	3710.01 - 3969.99 MHz
2.4 GHz WLAN	Voice/Data	2412 - 2462 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	5925 - 6425 MHz
U-NII-6	Voice/Data	6425 - 6525 MHz
U-NII-7	Voice/Data	6525 - 6875 MHz
U-NII-8	Voice/Data	6875 - 7125 MHz
Bluetooth	Data	2402 - 2480 MHz
NFC	Data	13.56 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 1.11 – 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., P_{limit} for sub-6 radio), for each characterized technology and band (see RF Exposure Part 0 Test Report, report SN could be found in Section 1.11 - Bibliography).

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

Exposure Scenario:		Body-Worn	Phablet	Phablet	Head	Hotspot	Earjack	Maximum Tune-up Output Power*
Averaging Volume:		1g	10g	10g	1g	1g	10g	
Spacing:		15 mm	8, 6, 11	0 mm	0 mm	10 mm	0 mm	
DSI:		0	0	1	2	3	4	
Technology/Band	Antenna	**Plimit corresponding to 1mW/g (SAR_design_target)**						Pmax
CDMA/EVDO BC10	A	30.7		26.9	32.1	26.9	26.9	24.8
CDMA/EVDO BC0	A	30.5		27.0	31.9	27.0	27.0	24.8
CDMA/EVDO BC1	A	27.2		18.5	34.3	18.5	18.5	23.0
GSM/GPRS/EDGE 850 MHz	A	31.8		26.9	33.6	26.9	26.9	24.8
GSM/GPRS/EDGE 1900 MHz	A	26.3		18.8	35.4	18.8	18.8	21.3
UMTS B5	A	30.9		26.7	32.3	26.7	26.7	24.5
UMTS B4	A	25.4		18.5	32.5	18.5	18.5	23.0
UMTS B2	A	27.0		18.5	34.2	18.5	18.5	23.0
LTE FDD B71	A	31.8		27.4	34.0	27.4	27.4	24.8
LTE FDD B12	A	32.0		27.2	33.3	27.2	27.2	24.8
LTE FDD B13	A	31.5		27.0	32.6	27.0	27.0	24.8
LTE FDD B14	A	31.3		26.8	32.8	26.8	26.8	24.8
LTE FDD B26	A	31.4		26.9	32.9	26.9	26.9	24.8
LTE FDD B5	A	30.6		26.9	32.2	26.9	26.9	24.8
LTE FDD B66/4	A	24.8		18.5	31.9	18.5	18.5	23.0
LTE FDD B25/2	A	25.7		18.5	32.0	18.5	18.5	23.5
LTE FDD B30	A	27.2		20.0	37.6	19.0	20.0	23.0
LTE FDD B7	B	28.7		20.0	33.4	20.0	20.0	23.0
LTE TDD B48	I	20.0		20.0	17.0	20.0	20.0	21.5
LTE TDD B41/38	B	26.6		20.0	35.6	19.0	20.0	22.0
LTE TDD B41 PC2	B	26.6		20.0	35.6	19.0	20.0	22.9
NR FDD n71	A	31.3		29.2	33.6	29.2	29.2	24.5
NR FDD n12	A	31.1		28.8	35.7	28.8	28.8	24.5
NR FDD n5	A	30.3		27.1	31.8	26.6	27.1	24.5
NR FDD n66	A	24.6		18.5	32.1	18.5	18.5	23.8
NR FDD n66	E	23.5		23.5	19.0	19.0	23.5	23.5
NR FDD n25/2	A	26.5		18.5	33.8	18.5	18.5	23.8
NR FDD n25/2	E	23.5		23.5	19.0	19.0	23.5	23.5
NR FDD n30	A	25.4		20.0	35.9	19.0	20.0	23.0
NR TDD n41	B	18.0		14.0	18.0	13.0	14.0	24.0
NR TDD n41	E	17.0		17.0	14.0	15.0	17.0	24.0
NR TDD n41 (PC2)	E	17.0		17.0	14.0	15.0	17.0	26.0
NR TDD n77	I	19.5		19.5	15.0	17.5	19.5	23.5
NR TDD n77 PC2	I	19.5		19.5	15.0	17.5	19.5	25.5

*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 (e.g. GSM and LTE TDD).

*Maximum tune up output power P_{max} is used to configure EUT during RF tune up procedure. The maximum allowed output power is equal to maximum Tune up output power + 1dB device design uncertainty.

The maximum time-averaged output power (dBm) for any 2G/3G/4G/5G Sub6 WWAN technology, band, and DSI = minimum of "P_{limit} EFS" and "Maximum tune up output power P_{max}" + 1dB 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 0dB.

1.3 Power Reduction for SAR

This device used an independent fixed level power reduction mechanism for WLAN when 5G NR is active and also for WLAN/BT during all voice or VoIP held to ear scenarios. Per FCC Guidance, the held-to-ear exposure conditions were evaluated at reduced power according to the head SAR positions described in IEEE 1528-2013. Detailed descriptions of the power reduction mechanism are included in the operational description.

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 2G/3G/4G/5G Output Power

CDMA BC10 (815 MHz)				
Power Level		Modulated Average Output Power (in dBm)		
		1x-RTT	EVDO Rev 0	EVDO Rev A
DSI = 0 (Body-Worn or Phablet Max)	Max allowed power	25.8	25.8	25.8
	Nominal	24.8	24.8	24.8
DSI = 1 (Phablet Reduced)	Max allowed power	25.8	25.8	25.8
	Nominal	24.8	24.8	24.8
DSI = 2 (Head)	Max allowed power	25.8	25.8	25.8
	Nominal	24.8	24.8	24.8
DSI = 3 (Hotspot)	Max allowed power	25.8	25.8	25.8
	Nominal	24.8	24.8	24.8
DSI = 4 (Earjack)	Max allowed power	25.8	25.8	25.8
	Nominal	24.8	24.8	24.8
CDMA BC0 (835 MHz)				
Power Level		Modulated Average Output Power (in dBm)		
		1x-RTT	EVDO Rev 0	EVDO Rev A
DSI = 0 (Body-Worn or Phablet Max)	Max allowed power	25.8	25.8	25.8
	Nominal	24.8	24.8	24.8
DSI = 1 (Phablet Reduced)	Max allowed power	25.8	25.8	25.8
	Nominal	24.8	24.8	24.8
DSI = 2 (Head)	Max allowed power	25.8	25.8	25.8
	Nominal	24.8	24.8	24.8
DSI = 3 (Hotspot)	Max allowed power	25.8	25.8	25.8
	Nominal	24.8	24.8	24.8
DSI = 4 (Earjack)	Max allowed power	25.8	25.8	25.8
	Nominal	24.8	24.8	24.8
CDMA BC1 (1900 MHz)				
Power Level		Modulated Average Output Power (in dBm)		
		1x-RTT	EVDO Rev 0	EVDO Rev A
DSI = 0 (Body-Worn or Phablet Max)	Max allowed power	24.0	24.0	24.0
	Nominal	23.0	23.0	23.0
DSI = 1 (Phablet Reduced)	Max allowed power	19.5	19.5	19.5
	Nominal	18.5	18.5	18.5
DSI = 2 (Head)	Max allowed power	24.0	24.0	24.0
	Nominal	23.0	23.0	23.0
DSI = 3 (Hotspot)	Max allowed power	19.5	19.5	19.5
	Nominal	18.5	18.5	18.5
DSI = 4 (Earjack)	Max allowed power	19.5	19.5	19.5
	Nominal	18.5	18.5	18.5

GSM/GPRS/EDGE 850										
Power Level		Voice (in dBm)	Data - Burst Average GMSK (in dBm)				Data - Burst Average 8-PSK (in dBm)			
		1 TX Slot	1 TX Slots	2 TX Slots	3 TX Slots	4 TX Slots	1 TX Slots	2 TX Slots	3 TX Slots	4 TX Slots
DSI = 0 (Body-Worn or Phablet Max)	Max allowed power	33.5	33.5	32.0	30.0	28.0	27.5	25.5	23.5	22.5
	Nominal	32.5	32.5	31.0	29.0	27.0	26.5	24.5	22.5	21.5
DSI = 1 (Phablet Reduced)	Max allowed power	33.5	33.5	32.0	30.0	28.0	27.5	25.5	23.5	22.5
	Nominal	32.5	32.5	31.0	29.0	27.0	26.5	24.5	22.5	21.5
DSI = 2 (Head)	Max allowed power	33.5	33.5	32.0	30.0	28.0	27.5	25.5	23.5	22.5
	Nominal	32.5	32.5	31.0	29.0	27.0	26.5	24.5	22.5	21.5
DSI = 3 (Hotspot)	Max allowed power	N/A	33.5	32.0	30.0	28.0	27.5	25.5	23.5	22.5
	Nominal	N/A	32.5	31.0	29.0	27.0	26.5	24.5	22.5	21.5
DSI = 4 (Earjack)	Max allowed power	33.5	33.5	32.0	30.0	28.0	27.5	25.5	23.5	22.5
	Nominal	32.5	32.5	31.0	29.0	27.0	26.5	24.5	22.5	21.5
GSM/GPRS/EDGE 1900										
Power Level		Voice (in dBm)	Data - Burst Average GMSK (in dBm)				Data - Burst Average 8-PSK (in dBm)			
		1 TX Slot	1 TX Slots	2 TX Slots	3 TX Slots	4 TX Slots	1 TX Slots	2 TX Slots	3 TX Slots	4 TX Slots
DSI = 0 (Body-Worn or Phablet Max)	Max allowed power	30.0	30.0	28.5	26.5	24.5	26.5	24.0	22.0	21.0
	Nominal	29.0	29.0	27.5	25.5	23.5	25.5	23.0	21.0	20.0
DSI = 1 (Phablet Reduced)	Max allowed power	29.0	29.0	26.0	24.2	23.0	26.5	24.0	22.0	21.0
	Nominal	28.0	28.0	25.0	23.2	22.0	25.5	23.0	21.0	20.0
DSI = 2 (Head)	Max allowed power	30.0	30.0	28.5	26.5	24.5	26.5	24.0	22.0	21.0
	Nominal	29.0	29.0	27.5	25.5	23.5	25.5	23.0	21.0	20.0
DSI = 3 (Hotspot)	Max allowed power	N/A	29.0	26.0	24.2	23.0	26.5	24.0	22.0	21.0
	Nominal	N/A	28.0	25.0	23.2	22.0	25.5	23.0	21.0	20.0
DSI = 4 (Earjack)	Max allowed power	29.0	29.0	26.0	24.2	23.0	26.5	24.0	22.0	21.0
	Nominal	28.0	28.0	25.0	23.2	22.0	25.5	23.0	21.0	20.0

For GSM, the above powers listed are GSM burst average values.

UMTS Band 5 (850 MHz)					
Power Level		Modulated Average Output Power (in dBm)			
		3GPP WCDMA Rel 99	3GPP HSDPA Rel 5	3GPP HSUPA Rel 6	3GPP DC-HSDPA Rel 8
DSI = 0 (Body-Worn or Phablet Max)	Max allowed power	25.5	24.5	24.5	24.5
	Nominal	24.5	23.5	23.5	23.5
DSI = 1 (Phablet Reduced)	Max allowed power	25.5	24.5	24.5	24.5
	Nominal	24.5	23.5	23.5	23.5
DSI = 2 (Head)	Max allowed power	25.5	24.5	24.5	24.5
	Nominal	24.5	23.5	23.5	23.5
DSI = 3 (Hotspot)	Max allowed power	25.5	24.5	24.5	24.5
	Nominal	24.5	23.5	23.5	23.5
DSI = 4 (Earjack)	Max allowed power	25.5	24.5	24.5	24.5
	Nominal	24.5	23.5	23.5	23.5
UMTS Band 4 (1750 MHz)					
Power Level		Modulated Average Output Power (in dBm)			
		3GPP WCDMA Rel 99	3GPP HSDPA Rel 5	3GPP HSUPA Rel 6	3GPP DC-HSDPA Rel 8
DSI = 0 (Body-Worn or Phablet Max)	Max allowed power	24.0	23.0	23.0	23.0
	Nominal	23.0	22.0	22.0	22.0
DSI = 1 (Phablet Reduced)	Max allowed power	19.5	18.5	18.5	18.5
	Nominal	18.5	17.5	17.5	17.5
DSI = 2 (Head)	Max allowed power	24.0	23.0	23.0	23.0
	Nominal	23.0	22.0	22.0	22.0
DSI = 3 (Hotspot)	Max allowed power	19.5	18.5	18.5	18.5
	Nominal	18.5	17.5	17.5	17.5
DSI = 4 (Earjack)	Max allowed power	19.5	18.5	18.5	18.5
	Nominal	18.5	17.5	17.5	17.5
UMTS Band 2 (1900 MHz)					
Power Level		Modulated Average Output Power (in dBm)			
		3GPP WCDMA Rel 99	3GPP HSDPA Rel 5	3GPP HSUPA Rel 6	3GPP DC-HSDPA Rel 8
DSI = 0 (Body-Worn or Phablet Max)	Max allowed power	24.0	23.0	23.0	23.0
	Nominal	23.0	22.0	22.0	22.0
DSI = 1 (Phablet Reduced)	Max allowed power	19.5	18.5	18.5	18.5
	Nominal	18.5	17.5	17.5	17.5
DSI = 2 (Head)	Max allowed power	24.0	23.0	23.0	23.0
	Nominal	23.0	22.0	22.0	22.0
DSI = 3 (Hotspot)	Max allowed power	19.5	18.5	18.5	18.5
	Nominal	18.5	17.5	17.5	17.5
DSI = 4 (Earjack)	Max allowed power	19.5	18.5	18.5	18.5
	Nominal	18.5	17.5	17.5	17.5

Mode / Band		Modulated Average Output Power (in dBm)				
		DSI = 0 (Body-Worn or Phablet Max)	DSI = 1 (Phablet Reduced)	DSI = 2 (Head)	DSI = 3 (Hotspot)	DSI = 4 (Earjack)
LTE FDD Band 71	Max allowed	25.8	25.8	25.8	25.8	25.8
	Nominal	24.8	24.8	24.8	24.8	24.8
LTE FDD Band 12	Max allowed	25.8	25.8	25.8	25.8	25.8
	Nominal	24.8	24.8	24.8	24.8	24.8
LTE FDD Band 13	Max allowed	25.8	25.8	25.8	25.8	25.8
	Nominal	24.8	24.8	24.8	24.8	24.8
LTE FDD Band 14	Max allowed	25.8	25.8	25.8	25.8	25.8
	Nominal	24.8	24.8	24.8	24.8	24.8
LTE FDD Band 26	Max allowed	25.8	25.8	25.8	25.8	25.8
	Nominal	24.8	24.8	24.8	24.8	24.8
LTE FDD Band 5	Max allowed	25.8	25.8	25.8	25.8	25.8
	Nominal	24.8	24.8	24.8	24.8	24.8
LTE FDD Band 66	Max allowed	24.0	19.5	24.0	19.5	19.5
	Nominal	23.0	18.5	23.0	18.5	18.5
LTE FDD Band 4	Max allowed	24.0	19.5	24.0	19.5	19.5
	Nominal	23.0	18.5	23.0	18.5	18.5
LTE FDD Band 25	Max allowed	24.5	19.5	24.5	19.5	19.5
	Nominal	23.5	18.5	23.5	18.5	18.5
LTE FDD Band 2	Max allowed	24.5	19.5	24.5	19.5	19.5
	Nominal	23.5	18.5	23.5	18.5	18.5
LTE FDD Band 30	Max allowed	24.0	21.0	24.0	20.0	21.0
	Nominal	23.0	20.0	23.0	19.0	20.0
LTE FDD Band 7	Max allowed	24.0	21.0	24.0	21.0	21.0
	Nominal	23.0	20.0	23.0	20.0	20.0
LTE TDD Band 48	Max allowed	23.0	23.0	20.0	23.0	23.0
	Nominal	22.0	22.0	19.0	22.0	22.0
LTE TDD Band 41	Max allowed	25.0	23.0	25.0	22.0	23.0
	Nominal	24.0	22.0	24.0	21.0	22.0
LTE TDD Band 41 (PC2)	Max allowed	27.5	24.6	27.5	23.6	24.6
	Nominal	26.5	23.6	26.5	22.6	23.6
LTE TDD Band 38	Max allowed	25.0	23.0	25.0	22.0	23.0
	Nominal	24.0	22.0	24.0	21.0	22.0

Mode / Band		Modulated Average Output Power (in dBm)				
		DSI = 0 (Body-Worn or Phablet Max)	DSI = 1 (Phablet Reduced)	DSI = 2 (Head)	DSI = 3 (Hotspot)	DSI = 4 (Earjack)
NR FDD Band n71	Max allowed	25.5	25.5	25.5	25.5	25.5
	Nominal	24.5	24.5	24.5	24.5	24.5
NR FDD Band n12	Max allowed	25.5	25.5	25.5	25.5	25.5
	Nominal	24.5	24.5	24.5	24.5	24.5
NR FDD Band n5	Max allowed	25.5	25.5	25.5	25.5	25.5
	Nominal	24.5	24.5	24.5	24.5	24.5
NR FDD Band n66 Ant A	Max allowed	24.8	19.5	24.8	19.5	19.5
	Nominal	23.8	18.5	23.8	18.5	18.5
NR FDD Band n66 Ant E	Max allowed	24.5	24.5	20.0	20.0	24.5
	Nominal	23.5	23.5	19.0	19.0	23.5
NR FDD Band n25 Ant A	Max allowed	24.8	19.5	24.8	19.5	19.5
	Nominal	23.8	18.5	23.8	18.5	18.5
NR FDD Band n25 Ant E	Max allowed	24.5	24.5	20.0	20.0	24.5
	Nominal	23.5	23.5	19.0	19.0	23.5
NR FDD Band n2 Ant A	Max allowed	24.8	19.5	24.8	19.5	19.5
	Nominal	23.8	18.5	23.8	18.5	18.5
NR FDD Band n2 Ant E	Max allowed	24.5	24.5	20.0	20.0	24.5
	Nominal	23.5	23.5	19.0	19.0	23.5
NR FDD Band n30	Max allowed	24.0	21.0	24.0	20.0	21.0
	Nominal	23.0	20.0	23.0	19.0	20.0
NR TDD Band n41 Ant B	Max allowed	19.0	15.0	19.0	14.0	15.0
	Nominal	18.0	14.0	18.0	13.0	14.0
NR TDD Band n41 Ant E	Max allowed	18.0	18.0	15.0	16.0	18.0
	Nominal	17.0	17.0	14.0	15.0	17.0
NR TDD Band n41 (PC2) Ant E	Max allowed	18.0	18.0	15.0	16.0	18.0
	Nominal	17.0	17.0	14.0	15.0	17.0
NR TDD Band n77	Max allowed	20.5	20.5	16.0	18.5	20.5
	Nominal	19.5	19.5	15.0	17.5	19.5
NR TDD Band n77 (PC2)	Max allowed	20.5	20.5	16.0	18.5	20.5
	Nominal	19.5	19.5	15.0	17.5	19.5

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

1.4.2 2.4 GHz Maximum SISO/MIMO WLAN Output Power

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

Mode	Band	IEEE 802.11 (in dBm)									
		SISO				MIMO					
		Antenna 1		Antenna 2							
		b				g (CDD + STBC)		n (CDD + STBC, SDM)		ax (SU) (CDD + STBC, SDM)	
		Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum
2.4 GHz WIFI	2.45 GHz	18.5	19.5	19.5	20.5	20.5	21.5	20.5	21.5	20.5 ch. 1: 17.0 ch. 11: 17.5	21.5 ch. 1: 18.0 ch. 11: 18.5

1.4.3 2.4 GHz Reduced WLAN Output Powers

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

The below table is applicable in the following conditions:

- RCV Active
- Simultaneous conditions with 5/6 GHz WLAN (RCV not Active)
- Simultaneous conditions with 5G NR (RCV not Active)

Mode	Band	IEEE 802.11 (in dBm)							
		SISO		MIMO					
		Antenna 1 & Antenna 2							
		b		g (CDD + STBC)		n (CDD + STBC, SDM)		ax (SU) (CDD + STBC, SDM)	
		Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum
2.4 GHz WIFI	2.45 GHz	16.0	17.0	19.0	20.0	19.0	20.0	19.0 ch. 1: 17.0 ch. 11: 17.5	20.0 ch. 1: 18.0 ch. 11: 18.5

The below table is applicable in the following conditions:

- RCV Active during simultaneous conditions with 5/6 GHz WLAN
- RCV Active during simultaneous conditions with 5G NR

Mode	Band	IEEE 802.11 (in dBm)							
		SISO		MIMO					
		Antenna 1 & Antenna 2							
		b		g (CDD + STBC)		n (CDD + STBC, SDM)		ax (SU) (CDD + STBC, SDM)	
		Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum
2.4 GHz WIFI	2.45 GHz	13.0	14.0	16.0	17.0	16.0	17.0	16.0	17.0

1.4.4 5 GHz Maximum SISO/MIMO WLAN Output Power

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

Mode	Band	IEEE 802.11 (in dBm)							
		MIMO							
		a (CDD + STBC)		n (CDD + STBC, SDM)		ac (CDD + STBC, SDM)		ax (SU) (CDD + STBC, SDM)	
		Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum
5 GHz WIFI (20MHz BW)	5200 MHz	19.5	20.5	19.5	20.5	19.5	20.5	19.5	20.5
	5300 MHz	19.5	20.5	19.5	20.5	19.5	20.5	19.5	20.5
	5500 MHz	19.5	20.5	19.5	20.5	19.5	20.5	19.5	20.5
	5800 MHz	19.5	20.5	19.5	20.5	19.5	20.5	19.5	20.5
5 GHz WIFI (40MHz BW)	5200 MHz			19.0 ch. 38	20.0 ch. 38	19.0 ch. 38	20.0 ch. 38	19.0 ch. 38	20.0 ch. 38
	5300 MHz			19.0 ch. 62	20.0 ch. 62	19.0 ch. 62	20.0 ch. 62	19.0 ch. 62	20.0 ch. 62
	5500 MHz			19.0 ch. 102	20.0 ch. 102	19.0 ch. 102	20.0 ch. 102	19.0 ch. 102	20.0 ch. 102
	5800 MHz			19.0	20.0	19.0	20.0	19.0	20.0
5 GHz WIFI (80MHz BW)	5200 MHz					17.0	18.0	17.0	18.0
	5300 MHz					17.0	18.0	17.0	18.0
	5500 MHz					18.5	19.5	18.5	19.5
	5800 MHz					18.5	19.5	18.5	19.5
5 GHz WIFI (160MHz BW)	5250 MHz					15.0	16.0	15.0	16.0
	5570 MHz					16.5	17.5	16.5	17.5

1.4.5 5 GHz Reduced WLAN Output Powers

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

The below table is applicable in the following conditions:

- RCV Active
- Simultaneous conditions with 2.4 GHz WLAN
- Simultaneous conditions with 5G NR
- RCV Active during simultaneous conditions with 2.4 GHz WLAN
- RCV Active during simultaneous conditions with 5G NR

Mode	Band	IEEE 802.11 (in dBm)							
		MIMO							
		a (CDD + STBC)		n (CDD + STBC, SDM)		ac (CDD + STBC, SDM)		ax (SU) (CDD + STBC, SDM)	
		Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum
5 GHz WIFI (20MHz BW)	5200 MHz	16.0	17.0	16.0	17.0	16.0	17.0	16.0	17.0
	5300 MHz	16.0	17.0	16.0	17.0	16.0	17.0	16.0	17.0
	5500 MHz	16.0	17.0	16.0	17.0	16.0	17.0	16.0	17.0
	5800 MHz	16.0	17.0	16.0	17.0	16.0	17.0	16.0	17.0
5 GHz WIFI (40MHz BW)	5200 MHz			16.0	17.0	16.0	17.0	16.0	17.0
	5300 MHz			16.0	17.0	16.0	17.0	16.0	17.0
	5500 MHz			16.0	17.0	16.0	17.0	16.0	17.0
	5800 MHz			16.0	17.0	16.0	17.0	16.0	17.0
5 GHz WIFI (80MHz BW)	5200 MHz					16.0	17.0	16.0	17.0
	5300 MHz					16.0	17.0	16.0	17.0
	5500 MHz					16.0	17.0	16.0	17.0
	5800 MHz					16.0	17.0	16.0	17.0
5 GHz WIFI (160MHz BW)	5250 MHz					15.0	16.0	15.0	16.0
	5570 MHz					16.0	17.0	16.0	17.0

1.4.6 2.4 GHz Maximum Bluetooth Output Power

Mode	Single Antenna				Single Antenna in Dual Mode				Dual	
	Antenna 1		Antenna 2		Antenna 1		Antenna 2			
	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum
Bluetooth (in dBm)	16.0	17.0	16.0	17.0	11.1	12.1	10.9	11.9	14.0	15.0
Bluetooth EDR (in dBm)	13.0	14.0	13.0	14.0	15.0	16.0	12.6	13.6	17.0	18.0
Bluetooth LE 2Mbps (in dBm)			9.0	10.0						
Bluetooth LE 1Mbps, 125/500Kbps (in dBm)			9.0	10.0						

1.4.7 2.4 GHz Reduced Bluetooth Output Power

The below table is applicable in the following conditions:

- RCV active

Mode	Single Antenna				Single Antenna in Dual Mode				Dual	
	Antenna 1		Antenna 2		Antenna 1		Antenna 2			
	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum
Bluetooth (in dBm)	13.0	14.0	13.0	14.0	10.0	11.0	10.0	11.0	13.0	14.0
Bluetooth EDR (in dBm)	13.0	14.0	13.0	14.0	10.0	11.0	10.0	11.0	13.0	14.0
Bluetooth LE 2Mbps (in dBm)			9.0	10.0						
Bluetooth LE 1Mbps, 125/500Kbps (in dBm)			9.0	10.0						

1.5 DUT Antenna Locations

The overall dimensions of this device are > 9 x 5 cm. A diagram showing the location of the device antennas can be found in Appendix E. Since the diagonal dimension of this device is > 160 mm and <200 mm, it is considered a "phablet."

Table 1-1
Device Edges/Sides for SAR Testing

Mode	Back	Front	Top	Bottom	Right	Left
EVDO BC10 (§90S)	Yes	Yes	No	Yes	Yes	Yes
EVDO BC0 (§22H)	Yes	Yes	No	Yes	Yes	Yes
PCS EVDO	Yes	Yes	No	Yes	Yes	Yes
GPRS 850	Yes	Yes	No	Yes	Yes	Yes
GPRS 1900	Yes	Yes	No	Yes	Yes	Yes
UMTS 850	Yes	Yes	No	Yes	Yes	Yes
UMTS 1750	Yes	Yes	No	Yes	Yes	Yes
UMTS 1900	Yes	Yes	No	Yes	Yes	Yes
LTE Band 71	Yes	Yes	No	Yes	Yes	Yes
LTE Band 12	Yes	Yes	No	Yes	Yes	Yes
LTE Band 13	Yes	Yes	No	Yes	Yes	Yes
LTE Band 14	Yes	Yes	No	Yes	Yes	Yes
LTE Band 26 (Cell)	Yes	Yes	No	Yes	Yes	Yes
LTE Band 5 (Cell)	Yes	Yes	No	Yes	Yes	Yes
LTE Band 66 (AWS)	Yes	Yes	No	Yes	Yes	Yes
LTE Band 25 (PCS)	Yes	Yes	No	Yes	Yes	Yes
LTE Band 30	Yes	Yes	No	Yes	Yes	Yes
LTE Band 7	Yes	Yes	No	Yes	No	Yes
LTE Band 48	Yes	Yes	No	No	Yes	No
LTE Band 41	Yes	Yes	No	Yes	No	Yes
NR Band n71	Yes	Yes	No	Yes	Yes	Yes
NR Band n12	Yes	Yes	No	Yes	Yes	Yes
NR Band n5 (Cell)	Yes	Yes	No	Yes	Yes	Yes
NR Band n66 (AWS) Antenna A	Yes	Yes	No	Yes	Yes	Yes
NR Band n25 (PCS) Antenna A	Yes	Yes	No	Yes	Yes	Yes
NR Band n30	Yes	Yes	No	Yes	Yes	Yes
NR Band n41 Antenna B	Yes	Yes	No	Yes	No	Yes
NR Band n77	Yes	Yes	No	No	Yes	No
NR Band n66 (AWS) Antenna E	Yes	Yes	Yes	No	No	Yes
NR Band n25 (PCS) Antenna E	Yes	Yes	Yes	No	No	Yes
NR Band n41 Antenna E	Yes	Yes	Yes	No	No	Yes
2.4 GHz WLAN Ant 1	Yes	Yes	Yes	No	No	Yes
2.4 GHz WLAN Ant 2	Yes	Yes	No	No	No	Yes
2.4 GHz WLAN MIMO	Yes	Yes	Yes	No	No	Yes
5 GHz WLAN MIMO	Yes	Yes	Yes	No	No	Yes
Bluetooth Ant 1	Yes	Yes	Yes	No	No	Yes
Bluetooth Ant 2	Yes	Yes	No	No	No	Yes

Note: Particular DUT edges were not required to be evaluated for wireless router SAR or phablet SAR if the edges were greater than 2.5 cm from the transmitting antenna according to FCC KDB Publication 941225 D06v02r01 Section III and FCC KDB Publication 648474 D04v01r03. The distances between the transmit antennas and the edges of the device are included in the filing. When wireless router mode is enabled, U-NII-1, U-NII-2A, U-NII-2C, and WIFI6E operations are disabled.

1.6 Near Field Communications (NFC) Antenna

This DUT has NFC operations. The NFC antenna is integrated into the device for this model. Therefore, all SAR tests were performed with the device which already incorporates the NFC antenna. A diagram showing the location of the NFC antenna can be found in Appendix E.

1.7 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 1-2
Simultaneous Transmission Scenarios

No.	Capable Transmit Configuration	Head	Body-Worn Accessory	Wireless Router	Phablet	Notes
1	1x CDMA voice + 2.4 GHz WLAN	Yes	Yes	N/A	Yes	
2	1x CDMA voice + 2.4 GHz WLAN MIMO	Yes	Yes	N/A	Yes	
3	1x CDMA voice + 5 GHz WLAN MIMO	Yes	Yes	N/A	Yes	
4	1x CDMA voice + 6 GHz WLAN MIMO	Yes	Yes	N/A	Yes	
5	1x CDMA voice + 2.4 GHz WLAN + 5 GHz WLAN MIMO	Yes	Yes	N/A	Yes	
6	1x CDMA voice + 2.4 GHz WLAN MIMO + 5 GHz WLAN MIMO	Yes	Yes	N/A	Yes	
7	1x CDMA voice + 2.4 GHz WLAN + 6 GHz WLAN MIMO	Yes	Yes	N/A	Yes	
8	1x CDMA voice + 2.4 GHz WLAN MIMO + 6 GHz WLAN MIMO	Yes	Yes	N/A	Yes	
9	1x CDMA voice + 2.4 GHz Bluetooth Ant 1	Yes^	Yes	N/A	Yes	^ Bluetooth Tethering is considered
10	1x CDMA voice + 2.4 GHz Bluetooth Ant 2	Yes^	Yes	N/A	Yes	^ Bluetooth Tethering is considered
11	1x CDMA voice + 2.4 GHz Bluetooth Ant 1 + 5 GHz WLAN MIMO	Yes^	Yes	N/A	Yes	^ Bluetooth Tethering is considered
12	1x CDMA voice + 2.4 GHz Bluetooth Ant 1 + 6 GHz WLAN MIMO	Yes^	Yes	N/A	Yes	^ Bluetooth Tethering is considered
13	1x CDMA voice + 2.4 GHz Bluetooth Ant 2 + 5 GHz WLAN MIMO	Yes^	Yes	N/A	Yes	^ Bluetooth Tethering is considered
14	1x CDMA voice + 2.4 GHz Bluetooth Ant 2 + 6 GHz WLAN MIMO	Yes^	Yes	N/A	Yes	^ Bluetooth Tethering is considered
15	1x CDMA voice + 2.4 GHz Bluetooth Ant 1 + 2.4 GHz Bluetooth Ant 2	Yes^	Yes	N/A	Yes	^ Bluetooth Tethering is considered
16	1x CDMA voice + 2.4 GHz Bluetooth Ant 1 + 2.4 GHz Bluetooth Ant 2 + 5 GHz WLAN MIMO	Yes^	Yes	N/A	Yes	^ Bluetooth Tethering is considered
17	1x CDMA voice + 2.4 GHz Bluetooth Ant 1 + 2.4 GHz Bluetooth Ant 2 + 6 GHz WLAN MIMO	Yes^	Yes	N/A	Yes	^ Bluetooth Tethering is considered
18	GSM voice + 2.4 GHz WLAN	Yes	Yes	N/A	Yes	
19	GSM voice + 2.4 GHz WLAN MIMO	Yes	Yes	N/A	Yes	
20	GSM voice + 5 GHz WLAN MIMO	Yes	Yes	N/A	Yes	
21	GSM voice + 6 GHz WLAN MIMO	Yes	Yes	N/A	Yes	
22	GSM voice + 2.4 GHz WLAN + 5 GHz WLAN MIMO	Yes	Yes	N/A	Yes	
23	GSM voice + 2.4 GHz WLAN MIMO + 5 GHz WLAN MIMO	Yes	Yes	N/A	Yes	
24	GSM voice + 2.4 GHz WLAN + 6 GHz WLAN MIMO	Yes	Yes	N/A	Yes	
25	GSM voice + 2.4 GHz WLAN MIMO + 6 GHz WLAN MIMO	Yes	Yes	N/A	Yes	
26	GSM voice + 2.4 GHz Bluetooth Ant 1	Yes^	Yes	N/A	Yes	^ Bluetooth Tethering is considered
27	GSM voice + 2.4 GHz Bluetooth Ant 2	Yes^	Yes	N/A	Yes	^ Bluetooth Tethering is considered
28	GSM voice + 2.4 GHz Bluetooth Ant 1 + 5 GHz WLAN MIMO	Yes^	Yes	N/A	Yes	^ Bluetooth Tethering is considered
29	GSM voice + 2.4 GHz Bluetooth Ant 1 + 6 GHz WLAN MIMO	Yes^	Yes	N/A	Yes	^ Bluetooth Tethering is considered
30	GSM voice + 2.4 GHz Bluetooth Ant 2 + 5 GHz WLAN MIMO	Yes^	Yes	N/A	Yes	^ Bluetooth Tethering is considered
31	GSM voice + 2.4 GHz Bluetooth Ant 2 + 6 GHz WLAN MIMO	Yes^	Yes	N/A	Yes	^ Bluetooth Tethering is considered
32	GSM voice + 2.4 GHz Bluetooth Ant 1 + 2.4 GHz Bluetooth Ant 2	Yes^	Yes	N/A	Yes	^ Bluetooth Tethering is considered
33	GSM voice + 2.4 GHz Bluetooth Ant 1 + 2.4 GHz Bluetooth Ant 2 + 5 GHz WLAN MIMO	Yes^	Yes	N/A	Yes	^ Bluetooth Tethering is considered
34	GSM voice + 2.4 GHz Bluetooth Ant 1 + 2.4 GHz Bluetooth Ant 2 + 6 GHz WLAN MIMO	Yes^	Yes	N/A	Yes	^ Bluetooth Tethering is considered
35	UMTS + 2.4 GHz WLAN	Yes	Yes	Yes	Yes	
36	UMTS + 2.4 GHz WLAN MIMO	Yes	Yes	Yes	Yes	
37	UMTS + 5 GHz WLAN MIMO	Yes	Yes	Yes	Yes	
38	UMTS + 6 GHz WLAN MIMO	Yes	Yes	N/A	Yes	
39	UMTS + 2.4 GHz WLAN + 5 GHz WLAN MIMO	Yes	Yes	Yes	Yes	
40	UMTS + 2.4 GHz WLAN MIMO + 5 GHz WLAN MIMO	Yes	Yes	Yes	Yes	
41	UMTS + 2.4 GHz WLAN + 6 GHz WLAN MIMO	Yes	Yes	N/A	Yes	
42	UMTS + 2.4 GHz WLAN MIMO + 6 GHz WLAN MIMO	Yes	Yes	N/A	Yes	
43	UMTS + 2.4 GHz Bluetooth Ant 1	Yes^	Yes	Yes^	Yes	^ Bluetooth Tethering is considered
44	UMTS + 2.4 GHz Bluetooth Ant 2	Yes^	Yes	Yes^	Yes	^ Bluetooth Tethering is considered
45	UMTS + 2.4 GHz Bluetooth Ant 1 + 5 GHz WLAN MIMO	Yes^	Yes	Yes^	Yes	^ Bluetooth Tethering is considered
46	UMTS + 2.4 GHz Bluetooth Ant 1 + 6 GHz WLAN MIMO	Yes^	Yes	N/A	Yes	^ Bluetooth Tethering is considered
47	UMTS + 2.4 GHz Bluetooth Ant 2 + 5 GHz WLAN MIMO	Yes^	Yes	Yes^	Yes	^ Bluetooth Tethering is considered
48	UMTS + 2.4 GHz Bluetooth Ant 2 + 6 GHz WLAN MIMO	Yes^	Yes	N/A	Yes	^ Bluetooth Tethering is considered
49	UMTS + 2.4 GHz Bluetooth Ant 1 + 2.4 GHz Bluetooth Ant 2	Yes^	Yes	Yes^	Yes	^ Bluetooth Tethering is considered
50	UMTS + 2.4 GHz Bluetooth Ant 1 + 2.4 GHz Bluetooth Ant 2 + 5 GHz WLAN MIMO	Yes^	Yes	Yes^	Yes	^ Bluetooth Tethering is considered
51	UMTS + 2.4 GHz Bluetooth Ant 1 + 2.4 GHz Bluetooth Ant 2 + 6 GHz WLAN MIMO	Yes^	Yes	N/A	Yes	^ Bluetooth Tethering is considered
52	LTE + 2.4 GHz WLAN	Yes	Yes	Yes	Yes	
53	LTE + 2.4 GHz WLAN MIMO	Yes	Yes	Yes	Yes	
54	LTE + 5 GHz WLAN MIMO	Yes	Yes	Yes	Yes	
55	LTE + 6 GHz WLAN MIMO	Yes	Yes	N/A	Yes	
56	LTE + 2.4 GHz WLAN + 5 GHz WLAN MIMO	Yes	Yes	Yes	Yes	
57	LTE + 2.4 GHz WLAN MIMO + 5 GHz WLAN MIMO	Yes	Yes	Yes	Yes	
58	LTE + 2.4 GHz WLAN + 6 GHz WLAN MIMO	Yes	Yes	N/A	Yes	
59	LTE + 2.4 GHz WLAN MIMO + 6 GHz WLAN MIMO	Yes	Yes	N/A	Yes	
60	LTE + 2.4 GHz Bluetooth Ant 1	Yes^	Yes	Yes^	Yes	^ Bluetooth Tethering is considered
61	LTE + 2.4 GHz Bluetooth Ant 2	Yes^	Yes	Yes^	Yes	^ Bluetooth Tethering is considered
62	LTE + 2.4 GHz Bluetooth Ant 1 + 5 GHz WLAN MIMO	Yes^	Yes	Yes^	Yes	^ Bluetooth Tethering is considered
63	LTE + 2.4 GHz Bluetooth Ant 1 + 6 GHz WLAN MIMO	Yes^	Yes	N/A	Yes	^ Bluetooth Tethering is considered
64	LTE + 2.4 GHz Bluetooth Ant 2 + 5 GHz WLAN MIMO	Yes^	Yes	Yes^	Yes	^ Bluetooth Tethering is considered
65	LTE + 2.4 GHz Bluetooth Ant 2 + 6 GHz WLAN MIMO	Yes^	Yes	N/A	Yes	^ Bluetooth Tethering is considered
66	LTE + 2.4 GHz Bluetooth Ant 1 + 2.4 GHz Bluetooth Ant 2	Yes^	Yes	Yes^	Yes	^ Bluetooth Tethering is considered
67	LTE + 2.4 GHz Bluetooth Ant 1 + 2.4 GHz Bluetooth Ant 2 + 5 GHz WLAN MIMO	Yes^	Yes	Yes^	Yes	^ Bluetooth Tethering is considered
68	LTE + 2.4 GHz Bluetooth Ant 1 + 2.4 GHz Bluetooth Ant 2 + 6 GHz WLAN MIMO	Yes^	Yes	N/A	Yes	^ Bluetooth Tethering is considered

Table 1-3
Simultaneous Transmission Scenarios Cont.

No.	Capable Transmit Configuration	Head	Body-Worn Accessory	Wireless Router	Phablet	Notes
69	LTE + NR	Yes	Yes	N/A	Yes	
70	LTE + NR + 2.4 GHz WLAN	Yes	Yes	Yes	Yes	
71	LTE + NR + 2.4 GHz WLAN MIMO	Yes	Yes	Yes	Yes	
72	LTE + NR + 5 GHz WLAN MIMO	Yes	Yes	Yes	Yes	
73	LTE + NR + 6 GHz WLAN MIMO	Yes	Yes	N/A	Yes	
74	LTE + NR + 2.4 GHz WLAN + 5 GHz WLAN MIMO	Yes	Yes	Yes	Yes	
75	LTE + NR + 2.4 GHz WLAN MIMO + 5 GHz WLAN MIMO	Yes	Yes	Yes	Yes	
76	LTE + NR + 2.4 GHz WLAN + 6 GHz WLAN MIMO	Yes	Yes	N/A	Yes	
77	LTE + NR + 2.4 GHz WLAN MIMO + 6 GHz WLAN MIMO	Yes	Yes	N/A	Yes	
78	LTE + NR + 2.4 GHz Bluetooth Ant 1	Yes^	Yes	Yes^	Yes	^ Bluetooth Tethering is considered
79	LTE + NR + 2.4 GHz Bluetooth Ant 2	Yes^	Yes	Yes^	Yes	^ Bluetooth Tethering is considered
80	LTE + NR + 2.4 GHz Bluetooth Ant 1 + 5 GHz WLAN MIMO	Yes^	Yes	Yes^	Yes	^ Bluetooth Tethering is considered
81	LTE + NR + 2.4 GHz Bluetooth Ant 1 + 6 GHz WLAN MIMO	Yes^	Yes	N/A	Yes	^ Bluetooth Tethering is considered
82	LTE + NR + 2.4 GHz Bluetooth Ant 2 + 5 GHz WLAN MIMO	Yes^	Yes	Yes^	Yes	^ Bluetooth Tethering is considered
83	LTE + NR + 2.4 GHz Bluetooth Ant 2 + 6 GHz WLAN MIMO	Yes^	Yes	N/A	Yes	^ Bluetooth Tethering is considered
84	LTE + NR + 2.4 GHz Bluetooth Ant 1 + 2.4 GHz Bluetooth Ant 2	Yes^	Yes	Yes^	Yes	^ Bluetooth Tethering is considered
85	LTE + NR + 2.4 GHz Bluetooth Ant 1 + 2.4 GHz Bluetooth Ant 2 + 5 GHz WLAN MIMO	Yes^	Yes	Yes^	Yes	^ Bluetooth Tethering is considered
86	LTE + NR + 2.4 GHz Bluetooth Ant 1 + 2.4 GHz Bluetooth Ant 2 + 6 GHz WLAN MIMO	Yes^	Yes	N/A	Yes	^ Bluetooth Tethering is considered
87	NR + 2.4 GHz WLAN	Yes*	Yes*	Yes	Yes	* Pre-installed VOIP applications are considered.
88	NR + 2.4 GHz WLAN MIMO	Yes*	Yes*	Yes	Yes	* Pre-installed VOIP applications are considered.
89	NR + 5 GHz WLAN MIMO	Yes*	Yes*	Yes	Yes	* Pre-installed VOIP applications are considered.
90	NR + 6 GHz WLAN MIMO	Yes*	Yes*	N/A	Yes	* Pre-installed VOIP applications are considered.
91	NR + 2.4 GHz WLAN + 5 GHz WLAN MIMO	Yes*	Yes*	Yes	Yes	* Pre-installed VOIP applications are considered.
92	NR + 2.4 GHz WLAN MIMO + 5 GHz WLAN MIMO	Yes*	Yes*	Yes	Yes	* Pre-installed VOIP applications are considered.
93	NR + 2.4 GHz WLAN + 6 GHz WLAN MIMO	Yes*	Yes*	N/A	Yes	* Pre-installed VOIP applications are considered.
94	NR + 2.4 GHz WLAN MIMO + 6 GHz WLAN MIMO	Yes*	Yes*	N/A	Yes	* Pre-installed VOIP applications are considered.
95	NR + 2.4 GHz Bluetooth Ant 1	Yes*^	Yes*	Yes^	Yes	* Pre-installed VOIP applications are considered. ^ Bluetooth Tethering is considered
96	NR + 2.4 GHz Bluetooth Ant 2	Yes*^	Yes*	Yes^	Yes	* Pre-installed VOIP applications are considered. ^ Bluetooth Tethering is considered
97	NR + 2.4 GHz Bluetooth Ant 1 + 5 GHz WLAN MIMO	Yes*^	Yes*	Yes^	Yes	* Pre-installed VOIP applications are considered. ^ Bluetooth Tethering is considered
98	NR + 2.4 GHz Bluetooth Ant 1 + 6 GHz WLAN MIMO	Yes*^	Yes*	N/A	Yes	* Pre-installed VOIP applications are considered. ^ Bluetooth Tethering is considered
99	NR + 2.4 GHz Bluetooth Ant 2 + 5 GHz WLAN MIMO	Yes*^	Yes*	Yes^	Yes	* Pre-installed VOIP applications are considered. ^ Bluetooth Tethering is considered
100	NR + 2.4 GHz Bluetooth Ant 2 + 6 GHz WLAN MIMO	Yes*^	Yes*	N/A	Yes	* Pre-installed VOIP applications are considered. ^ Bluetooth Tethering is considered
101	NR + 2.4 GHz Bluetooth Ant 1 + 2.4 GHz Bluetooth Ant 2	Yes*^	Yes*	Yes^	Yes	* Pre-installed VOIP applications are considered. ^ Bluetooth Tethering is considered
102	NR + 2.4 GHz Bluetooth Ant 1 + 2.4 GHz Bluetooth Ant 2 + 5 GHz WLAN MIMO	Yes*^	Yes*	Yes^	Yes	* Pre-installed VOIP applications are considered. ^ Bluetooth Tethering is considered
103	NR + 2.4 GHz Bluetooth Ant 1 + 2.4 GHz Bluetooth Ant 2 + 6 GHz WLAN MIMO	Yes*^	Yes*	N/A	Yes	* Pre-installed VOIP applications are considered. ^ Bluetooth Tethering is considered
104	CDMA/EVDO data + 2.4 GHz WLAN	Yes*	Yes*	Yes	Yes	* Pre-installed VOIP applications are considered.
105	CDMA/EVDO data + 2.4 GHz WLAN MIMO	Yes*	Yes*	Yes	Yes	* Pre-installed VOIP applications are considered.
106	CDMA/EVDO data + 5 GHz WLAN MIMO	Yes*	Yes*	Yes	Yes	* Pre-installed VOIP applications are considered.
107	CDMA/EVDO data + 6 GHz WLAN MIMO	Yes*	Yes*	N/A	Yes	* Pre-installed VOIP applications are considered.
108	CDMA/EVDO data + 2.4 GHz WLAN + 5 GHz WLAN MIMO	Yes*	Yes*	Yes	Yes	* Pre-installed VOIP applications are considered.
109	CDMA/EVDO data + 2.4 GHz WLAN MIMO + 5 GHz WLAN MIMO	Yes*	Yes*	Yes	Yes	* Pre-installed VOIP applications are considered.
110	CDMA/EVDO data + 2.4 GHz WLAN + 6 GHz WLAN MIMO	Yes*	Yes*	N/A	Yes	* Pre-installed VOIP applications are considered.
111	CDMA/EVDO data + 2.4 GHz WLAN MIMO + 6 GHz WLAN MIMO	Yes*	Yes*	N/A	Yes	* Pre-installed VOIP applications are considered.
112	CDMA/EVDO data + 2.4 GHz Bluetooth Ant 1	Yes*^	Yes*	Yes^	Yes	* Pre-installed VOIP applications are considered. ^ Bluetooth Tethering is considered
113	CDMA/EVDO data + 2.4 GHz Bluetooth Ant 2	Yes*^	Yes*	Yes^	Yes	* Pre-installed VOIP applications are considered. ^ Bluetooth Tethering is considered
114	CDMA/EVDO data + 2.4 GHz Bluetooth Ant 1 + 5 GHz WLAN MIMO	Yes*^	Yes*	Yes^	Yes	* Pre-installed VOIP applications are considered. ^ Bluetooth Tethering is considered
115	CDMA/EVDO data + 2.4 GHz Bluetooth Ant 1 + 6 GHz WLAN MIMO	Yes*^	Yes*	N/A	Yes	* Pre-installed VOIP applications are considered. ^ Bluetooth Tethering is considered
116	CDMA/EVDO data + 2.4 GHz Bluetooth Ant 2 + 5 GHz WLAN MIMO	Yes*^	Yes*	Yes^	Yes	* Pre-installed VOIP applications are considered. ^ Bluetooth Tethering is considered
117	CDMA/EVDO data + 2.4 GHz Bluetooth Ant 2 + 6 GHz WLAN MIMO	Yes*^	Yes*	N/A	Yes	* Pre-installed VOIP applications are considered. ^ Bluetooth Tethering is considered
118	CDMA/EVDO data + 2.4 GHz Bluetooth Ant 1 + 2.4 GHz Bluetooth Ant 2	Yes*^	Yes*	Yes^	Yes	* Pre-installed VOIP applications are considered. ^ Bluetooth Tethering is considered
119	CDMA/EVDO data + 2.4 GHz Bluetooth Ant 1 + 2.4 GHz Bluetooth Ant 2 + 5 GHz WLAN MIMO	Yes*^	Yes*	Yes^	Yes	* Pre-installed VOIP applications are considered. ^ Bluetooth Tethering is considered
120	CDMA/EVDO data + 2.4 GHz Bluetooth Ant 1 + 2.4 GHz Bluetooth Ant 2 + 6 GHz WLAN MIMO	Yes*^	Yes*	N/A	Yes	* Pre-installed VOIP applications are considered. ^ Bluetooth Tethering is considered
121	GPRS/EDGE + 2.4 GHz WLAN	N/A	N/A	Yes	Yes	
122	GPRS/EDGE + 2.4 GHz WLAN MIMO	N/A	N/A	Yes	Yes	
123	GPRS/EDGE + 5 GHz WLAN MIMO	N/A	N/A	Yes	Yes	
124	GPRS/EDGE + 6 GHz WLAN MIMO	N/A	N/A	N/A	Yes	
125	GPRS/EDGE + 2.4 GHz WLAN + 5 GHz WLAN MIMO	N/A	N/A	Yes	Yes	
126	GPRS/EDGE + 2.4 GHz WLAN MIMO + 5 GHz WLAN MIMO	N/A	N/A	Yes	Yes	
127	GPRS/EDGE + 2.4 GHz WLAN + 6 GHz WLAN MIMO	N/A	N/A	N/A	Yes	
128	GPRS/EDGE + 2.4 GHz WLAN MIMO + 6 GHz WLAN MIMO	N/A	N/A	N/A	Yes	
129	GPRS/EDGE + 2.4 GHz Bluetooth Ant 1	N/A	N/A	Yes^	Yes	^ Bluetooth Tethering is considered
130	GPRS/EDGE + 2.4 GHz Bluetooth Ant 2	N/A	N/A	Yes^	Yes	^ Bluetooth Tethering is considered
131	GPRS/EDGE + 2.4 GHz Bluetooth Ant 1 + 5 GHz WLAN MIMO	N/A	N/A	Yes^	Yes	^ Bluetooth Tethering is considered
132	GPRS/EDGE + 2.4 GHz Bluetooth Ant 1 + 6 GHz WLAN MIMO	N/A	N/A	N/A	Yes	
133	GPRS/EDGE + 2.4 GHz Bluetooth Ant 2 + 5 GHz WLAN MIMO	N/A	N/A	Yes^	Yes	^ Bluetooth Tethering is considered
134	GPRS/EDGE + 2.4 GHz Bluetooth Ant 2 + 6 GHz WLAN MIMO	N/A	N/A	N/A	Yes	
135	GPRS/EDGE + 2.4 GHz Bluetooth Ant 1 + 2.4 GHz Bluetooth Ant 2	N/A	N/A	Yes^	Yes	^ Bluetooth Tethering is considered
136	GPRS/EDGE + 2.4 GHz Bluetooth Ant 1 + 2.4 GHz Bluetooth Ant 2 + 5 GHz WLAN MIMO	N/A	N/A	Yes^	Yes	^ Bluetooth Tethering is considered
137	GPRS/EDGE + 2.4 GHz Bluetooth Ant 1 + 2.4 GHz Bluetooth Ant 2 + 6 GHz WLAN MIMO	N/A	N/A	N/A	Yes	

1. 2.4 GHz WLAN and 2.4 GHz Bluetooth share the same antenna path and cannot transmit simultaneously.
2. 5 GHz WLAN and 6 GHz WLAN share the same antenna path and cannot transmit simultaneously.
3. All licensed modes share the same antenna path and cannot transmit simultaneously.
4. When the user utilizes multiple services in UMTS 3G mode it uses multi-Radio Access Bearer or multi-RAB. The power control is based on a physical control channel (Dedicated Physical Control Channel [DPCCH]) and power control will be adjusted to meet the needs of both services. Therefore, the UMTS+WLAN scenario also represents the UMTS Voice/DATA + WLAN Hotspot scenario.
5. Per the manufacturer, WIFI Direct is not expected to be used in conjunction with a held-to-ear or body-worn accessory voice call. Therefore, there are no simultaneous transmission scenarios involving WIFI direct beyond that listed in the above table.
6. 5 GHz Wireless Router is only supported for the U-NII-3 by S/W, therefore U-NII-1, U-NII2A, and U-NII2C were not evaluated for wireless router conditions.
7. 6 GHz Wireless Router is not supported, therefore it was not evaluated for wireless router conditions.
8. 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. 2.4 GHz WLAN antenna can transmit independently or together when operating with MIMO. 5/6 GHz WLAN can transmit only when operating with MIMO.
9. This device supports VoWIFI.
10. This device supports Bluetooth Tethering.
11. This device supports VoLTE.
12. LTE + 5G NR FR1 Scenarios are limited to EN-DC combinations with anchor bands as shown in the NR FR1 checklist.
13. 5G NR FR2 n260 and n261 cannot transmit simultaneously.
14. LTE + 5G NR FR2 Scenarios are limited to EN-DC combinations with anchor bands as shown in the NR FR2 checklist.

1.8 Miscellaneous SAR Test Considerations

(A) WIFI/BT

Since U-NII-1 and U-NII-2A bands have the same maximum output power and the highest reported SAR for U-NII-2A is less than 1.2 W/kg, SAR is not required for U-NII-1 band according to FCC KDB Publication 248227 D01v02r02.

Since Wireless Router operations are not allowed by the chipset firmware using U-NII-1, U-NII-2A & U-NII-2C WIFI, only 2.4 GHz and U-NII-3 WIFI Hotspot SAR tests and combinations are considered for SAR with respect to Wireless Router configurations according to FCC KDB 941225 D06v02r01.

This device supports IEEE 802.11ax with the following features:

a) Up to 160 MHz Bandwidth only for 5/6 GHz
b) Up to 20 MHz Bandwidth only for 2.4 GHz
c) No aggregate channel configurations
d) 2 Tx antenna output
e) Up to 1024 QAM is supported
f) TDWR and Band gap channels are supported for 5/6 GHz
g) MU-MIMO UL Operations are not supported

Per FCC KDB Publication 648474 D04v01r03, this device is considered a "phablet" since the diagonal dimension is greater than 160mm and less than 200mm. Phablet SAR tests are required when wireless router mode does not apply or if wireless router 1g SAR > 1.2 W/kg. Because wireless router operations are not supported for U-NII-1, U-NII-2A & U-NII-2C WLAN, phablet SAR tests were performed. Phablet SAR was not evaluated for 2.4 GHz and U-NII-3 WLAN operations since wireless router 1g SAR was < 1.2 W/kg.

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.

This device supports 6 GHz WIFI Operations. RF Exposure assessment for these bands can be found in the WIFI6E RF Exposure Report (report SN can be found in Section 1.11 – Bibliography). Simultaneous transmission analysis is addressed in section 12 of this report.

(B) Licensed Transmitter(s)

GSM/GPRS/EDGE DTM is not supported for US bands. Therefore, the GSM Voice modes in this report do not transmit simultaneously with GPRS/EDGE Data.

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.

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.

CDMA 1X Advanced technology was not required for SAR since the maximum allowed output powers for 1x Advanced was not more than 0.25 dB higher than the maximum powers for 1x and the measured SAR in any 1x mode exposure conditions was not greater than 1.2 W/kg per FCC KDB Publication 941225 D01v03r01.

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.

Per FCC KDB Publication 648474 D04v01r03, this device is considered a "phablet" since the diagonal dimension is greater than 160mm and less than 200mm. Therefore, phablet SAR tests are required when wireless router mode does not apply or if wireless router 1g SAR > 1.2 W/kg.

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. 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 14)

This device supports 5G NR for Bands 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 Section 1.11 – Bibliography).

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

1.9 Guidance Applied

- IEEE 1528-2013
- FCC KDB Publication 941225 D01v03r01, D05v02r04, D05Av01r02, D06v02r01 (2G/3G/4G and Hotspot)
- 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 648474 D04v01r03 (Phablet Procedures)
- FCC KDB Publication 616217 D04v01r02 (Proximity Sensor)
- October 2013 TCB Workshop Notes (GPRS Testing Considerations)
- 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, Dynamic Antenna Tuning)

1.10 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 11.

1.11 Bibliography

Report Type	Report Serial Number
Near Field PD Report (Part 1)	1M2009230152-22-R2.A3L
RF Exposure Part 2 Test Report	1M2009230152-23-R1.A3L
RF Exposure Compliance Summary Report	1M2009230152-24-R1.A3L
RF Exposure Part 0 Test Report	1M2009230152-25-R1.A3L
WIFI 6GHz RF exposure	1M2009230152-26-R2.A3L

2 LTE AND NR INFORMATION

LTE Information					
Form Factor	Portable Handset				
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 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 48 (3552.5 - 3697.5 MHz)				
	LTE Band 41 (2498.5 - 2687.5 MHz)				
	LTE Band 38 (2572.5 - 2617.5 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 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, 15 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 48: 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	LTE Band 41: 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	LTE Band 38: 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 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 26 (Cell): 15 MHz	821.5 (26765)		831.5 (26865)	841.5 (26965)	
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 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)
LTE Band 41: 5 MHz	2506 (39750)	2549.5 (40185)	2593 (40620)	2636.5 (41055)	2680 (41490)
LTE Band 41: 10 MHz	2506 (39750)	2549.5 (40185)	2593 (40620)	2636.5 (41055)	2680 (41490)
LTE Band 41: 15 MHz	2506 (39750)	2549.5 (40185)	2593 (40620)	2636.5 (41055)	2680 (41490)
LTE Band 41: 20 MHz	2506 (39750)	2549.5 (40185)	2593 (40620)	2636.5 (41055)	2680 (41490)
LTE Band 38: 5 MHz	2572.5 (37775)		2595 (38000)	2617.5 (38225)	
LTE Band 38: 10 MHz	2575 (37800)		2595 (38000)	2615 (38200)	
LTE Band 38: 15 MHz	2577.5 (37825)		2595 (38000)	2612.5 (38175)	
LTE Band 38: 20 MHz	2580 (37850)		2595 (38000)	2610 (38150)	
UE Category	DL UE Cat 20, UL UE Cat 18				
Modulations Supported in UL	QPSK, 16QAM, 64QAM, 256QAM				
LTE MPR Permanently implemented per 3GPP TS 36.101 section 6.2.3~6.2.5? (manufacturer attestation to be provided)	YES				
A-MPR (Additional MPR) disabled for SAR 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 16. It supports carrier aggregation, downlink MIMO, LAA features as shown in Section 9 and Appendix F. All uplink communications are identical to the Release 8 Specifications. Uplink communications are done on the PCC. The following LTE Release 16 Features are not supported: Relay, HetNet, Enhanced MIMO, eICIC, eMBMS, Cross-Carrier Scheduling, Enhanced SC-FDMA.				

NR Information						
Form Factor	Portable Handset					
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 n5 (Cell) (826.5 - 846.5 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 n41 (2506.02 - 2679.99 MHz)					
	NR Band n77 (3710.01 - 3969.99 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 n5 (Cell): 5 MHz, 10 MHz, 15 MHz, 20 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 n41: 20 MHz, 30 MHz, 40 MHz, 50 MHz, 60 MHz, 80 MHz, 90MHz, 100 MHz					
	NR Band n77: 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 (133147)		680.5 (136100)		695.5 (133447)	
NR Band n71: 10 MHz	668 (133600)		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 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 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 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: 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: 20 MHz	3710.01 (647334)	3762 (650800)	3813.99 (654266)	3866.01 (657734)	3918 (661200)	3969.99 (664666)
NR Band n77: 30 MHz	3715.02 (647668)	3765 (651000)	3815.01 (654334)	3864.99 (657666)	3915 (661000)	3964.98 (664332)
NR Band n77: 40 MHz	3720 (648000)	3768 (651200)	3816 (654400)	3864 (657600)	3912 (660800)	3960 (664000)
NR Band n77: 50 MHz	3725.01 (648334)	3782.49 (652166)	3840 (656000)		3897.51 (659834)	3954.99 (663666)
NR Band n77: 60 MHz	3730.02 (648668)	3803.34 (653556)	N/A	N/A	3876.66 (658444)	3949.98 (663332)
NR Band n77: 70 MHz	3735 (649000)	3804.99 (653666)	N/A	N/A	3875.01 (65334)	3945 (663000)
NR Band n77: 80 MHz	3740.01 (649334)	N/A	3840 (656000)		N/A	3939.99 (662666)
NR Band n77: 90 MHz	3745.02 (649668)	N/A	3840 (656000)		N/A	3934.98 (662332)
NR Band n77: 100 MHz	3750 (650000)	N/A	N/A	N/A	N/A	3930 (662000)
SCS for NR Band n71/n12/n5/n66/n25/n2/n30	15 kHz					
SCS for NR Band n41/n77	30 kHz					
Modulations Supported in UL	DFT-s-OFDM: π/2 BPSK, QPSK, 16QAM, 64QAM, 256QAM CP-OFDM: QPSK, 16QAM, 64QAM, 256QAM					
NR MPR Permanently implemented per 3GPP TS 38.101	YES					
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 2/66					
LTE Anchor Bands for NR Band n12	LTE Band 2/66					
LTE Anchor Bands for NR Band n5 (Cell)	LTE Band 2/30/48/66					
LTE Anchor Bands for NR Band n66 (AWS)	LTE Band 2/5/12/13/14/30/48					
LTE Anchor Bands for NR Band n25 (PCS)	LTE Band 12/66					
LTE Anchor Bands for NR Band n2 (PCS)	LTE Band 5/12/13/14/30/48/66					
LTE Anchor Bands for NR Band n30	N/A					
LTE Anchor Bands for NR Band n41	LTE Band 2/12/25/41/66					
LTE Anchor Bands for NR Band n77	LTE Band 2/5/12/13/14/30/66					

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:

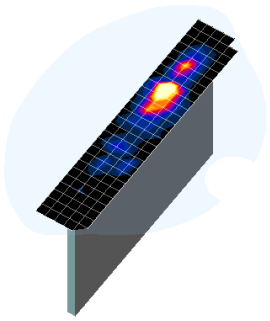


Figure 4-1
Sample SAR Area Scan

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 DEFINITION OF REFERENCE POINTS

5.1 EAR REFERENCE POINT

Figure 5-2 shows the front, back and side views of the SAM Twin Phantom. The point "M" is the reference point for the center of the mouth, "LE" is the left ear reference point (ERP), and "RE" is the right ERP. The ERP is 15mm posterior to the entrance to the ear canal (EEC) along the B-M line (Back-Mouth), as shown in Figure 5-1. The plane passing through the two ear canals and M is defined as the Reference Plane. The line N-F (Neck-Front), also called the Reference Pivoting Line, is not perpendicular to the reference plane (see Figure 5-1). Line B-M is perpendicular to the N-F line. Both N-F and B-M lines are marked on the external phantom shell to facilitate handset positioning [5].

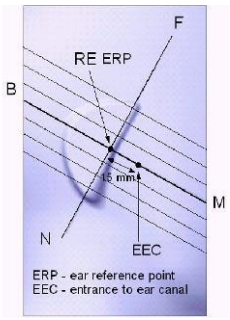


Figure 5-1
Close-Up Side view of ERP

5.2 HANDSET REFERENCE POINTS

Two imaginary lines on the handset were established: the vertical centerline and the horizontal line. The test device was placed in a normal operating position with the acoustic output located along the "vertical centerline" on the front of the device aligned to the "ear reference point" (See Figure 5-3). The acoustic output was than located at the same level as the center of the ear reference point. The test device was positioned so that the "vertical centerline" was bisecting the front surface of the handset at its top and bottom edges, positioning the "ear reference point" on the outer surface of the both the left and right head phantoms on the ear reference point.

Figure 5-2
Front, back and side view of SAM Twin Phantom

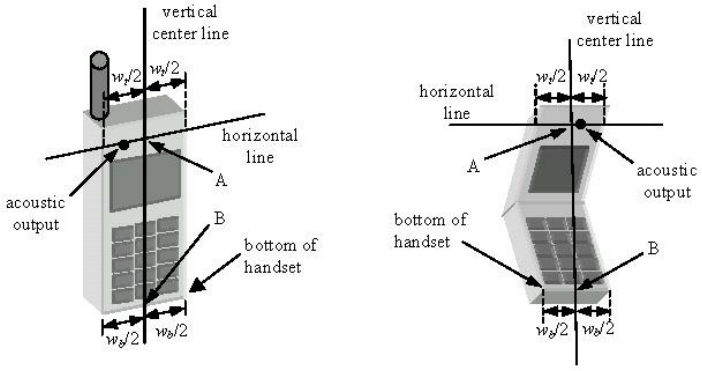


Figure 5-3
Handset Vertical Center & Horizontal Line Reference Points

6 TEST CONFIGURATION POSITIONS

6.1 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.

6.2 Positioning for Cheek

1. The test device was positioned with the device close to the surface of the phantom such that point A is on the (virtual) extension of the line passing through points RE and LE on the phantom (see Figure 6-1), such that the plane defined by the vertical center line and the horizontal line of the phone is approximately parallel to the sagittal plane of the phantom.

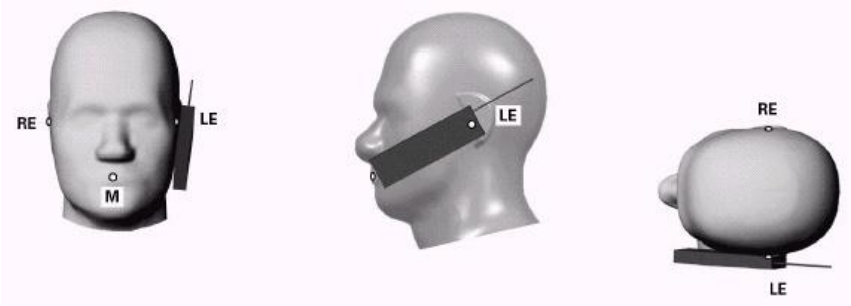


Figure 6-1 Front, Side and Top View of Cheek Position

2. The handset was translated towards the phantom along the line passing through RE & LE until the handset touches the pinna.
3. While maintaining the handset in this plane, the handset was rotated around the LE-RE line until the vertical centerline was in the reference plane.
4. The phone was then rotated around the vertical centerline until the phone (horizontal line) was symmetrical was respect to the line NF.
5. While maintaining the vertical centerline in the reference plane, keeping point A on the line passing through RE and LE, and maintaining the device contact with the ear, the device was rotated about the NF line until any point on the handset made contact with a phantom point below the ear (cheek) (See Figure 6-2).

6.3 Positioning for Ear / 15º Tilt

With the test device aligned in the “Cheek Position”:

1. While maintaining the orientation of the phone, the phone was retracted parallel to the reference plane far enough to enable a rotation of the phone by 15degrees.
2. The phone was then rotated around the horizontal line by 15 degrees.
3. While maintaining the orientation of the phone, the phone was moved parallel to the reference plane until any part of the handset touched the head. (In this position, point A was located on the line RE-LE). The tilted position is obtained when the contact is on the pinna. If the contact was at any location other than the pinna, the angle of the phone would then be reduced. In this situation, the tilted position was obtained when any part of the phone was in contact of the ear as well as a second part of the phone was in contact with the head (see Figure 6-2).

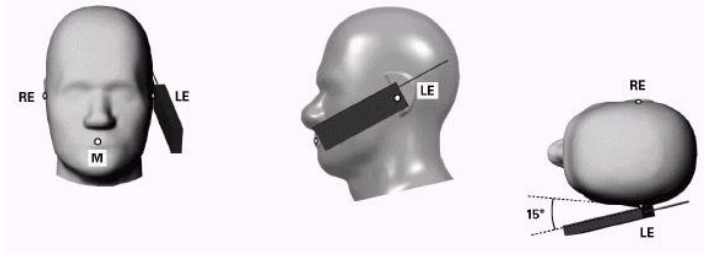


Figure 6-2 Front, Side and Top View of Ear/15º Tilt Position

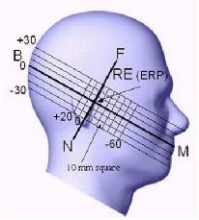


Figure 6-3
Side view w/ relevant markings

6.4 SAR Evaluations near the Mouth/Jaw Regions of the SAM Phantom

Antennas located near the bottom of a phone may require SAR measurements around the mouth and jaw regions of the SAM head phantom. This typically applies to clam-shell style phones that are generally longer in the unfolded normal use positions or to certain older style long rectangular phones. Per IEEE 1528-2013, a rotated SAM phantom is necessary to allow probe access to such regions. Both SAM heads of the TwinSAM-Chin20 are rotated 20 degrees around the NF line. Each head can be removed from the table for emptying and cleaning.

Under these circumstances, the following procedures apply, adopted from the FCC guidance on SAR handsets document FCC KDB Publication 648474 D04v01r03. The SAR required in these regions of SAM should be measured using a flat phantom. The phone should be positioned with a separation distance of 4 mm between the ear reference point (ERP) and the outer surface of the flat phantom shell. While maintaining this distance at the ERP location, the low (bottom) edge of the phone should be lowered from the phantom to establish the same separation distance between the peak SAR location identified by the truncated partial SAR distribution measured with the SAM phantom. The distance from the peak SAR location to the phone is determined by the straight line passing perpendicularly through the phantom surface. When it is not feasible to maintain 4 mm separation at the ERP while also establishing the required separation at the peak SAR location, the top edge of the phone will be allowed to touch the phantom with a separation < 4 mm at the ERP. The phone should not be tilted to the left or right while placed in this inclined position to the flat phantom.

6.5 Body-Worn Accessory Configurations

Body-worn operating configurations are tested with the belt-clips and holsters attached to the device and positioned against a flat phantom in a normal use configuration (see Figure 6-4). Per FCC KDB Publication 648474 D04v01r03, Body-worn accessory exposure is typically related to voice mode operations when handsets are carried in body-worn accessories. The body-worn accessory procedures in FCC KDB Publication 447498 D01v06 should be used to test for body-worn accessory SAR compliance, without a headset connected to it. This enables the test results for such configuration to be compatible with that required for hotspot mode when the body-worn accessory test separation distance is greater than or equal to that required for hotspot mode, when applicable. When the reported SAR for a body-worn accessory, measured without a headset connected to the handset, is > 1.2 W/kg, the highest reported SAR configuration for that wireless mode and frequency band should be repeated for that body-worn accessory with a headset attached to the handset.

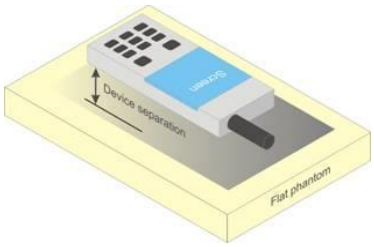


Figure 6-4
Sample Body-Worn Diagram

Accessories for Body-worn operation configurations are divided into two categories: those that do not contain metallic components and those that do contain metallic components. When multiple accessories that do not

contain metallic components are supplied with the device, the device is tested with only the accessory that dictates the closest spacing to the body. Then multiple accessories that contain metallic components are tested with the device with each accessory. If multiple accessories share an identical metallic component (i.e. the same metallic belt-clip used with different holsters with no other metallic components) only the accessory that dictates the closest spacing to the body is tested.

Body-worn accessories may not always be supplied or available as options for some devices intended to be authorized for body-worn use. In this case, a test configuration with a separation distance between the back of the device and the flat phantom is used. Test position spacing was documented.
Transmitters that are designed to operate in front of a person's face, as in push-to-talk configurations, are tested for SAR compliance with the front of the device positioned to face the flat phantom in head fluid. For devices that are carried next to the body such as a shoulder, waist or chest-worn transmitters, SAR compliance is tested with the accessories, including headsets and microphones, attached to the device and positioned against a flat phantom in a normal use configuration.

6.6 Extremity Exposure Configurations

Devices that are designed or intended for use on extremities or mainly operated in extremity only exposure conditions; i.e., hands, wrists, feet and ankles, may require extremity SAR evaluation. When the device also operates in close proximity to the user's body, SAR compliance for the body is also required. The 1g body and 10g extremity SAR Exclusion Thresholds found in KDB Publication 447498 D01v06 should be applied to determine SAR test requirements.

Per KDB Publication 447498 D01v06, Cell phones (handsets) are not normally designed to be used on extremities or operated in extremity only exposure conditions. The maximum output power levels of handsets generally do not require extremity SAR testing to show compliance. Therefore, extremity SAR was not evaluated for this device.

6.7 Wireless Router Configurations

Some battery-operated handsets have the capability to transmit and receive user data through simultaneous transmission of WIFI simultaneously with a separate licensed transmitter. The FCC has provided guidance in FCC KDB Publication 941225 D06v02r01 where SAR test considerations for handsets (L x W ≥ 9 cm x 5 cm) are based on a composite test separation distance of 10 mm from the front, back and edges of the device containing transmitting antennas within 2.5 cm of their edges, determined from general mixed use conditions for this type of devices. Since the hotspot SAR results may overlap with the body-worn accessory SAR requirements, the more conservative configurations can be considered, thus excluding some body-worn accessory SAR tests.

When the user enables the personal wireless router functions for the handset, actual operations include simultaneous transmission of both the WIFI transmitter and another licensed transmitter. Both transmitters often do not transmit at the same transmitting frequency and thus cannot be evaluated for SAR under actual use conditions due to the limitations of the SAR assessment probes. Therefore, SAR must be evaluated for each frequency transmission and mode separately and spatially summed with the WIFI transmitter according to FCC KDB Publication 447498 D01v06 procedures. The "Portable Hotspot" feature on the handset was NOT activated during SAR assessments, to ensure the SAR measurements were evaluated for a single transmission frequency RF signal at a time.

6.8 Phablet Configurations

For smart phones with a display diagonal dimension > 150 mm or an overall diagonal dimension > 160 mm that provide similar mobile web access and multimedia support found in mini-tablets or UMPC mini-tablets that

support voice calls next to the ear, the phablets procedures outlined in KDB Publication 648474 D04v01r03 should be applied to evaluate SAR compliance. A device marketed as phablets, regardless of form factors and operating characteristics must be tested as a phablet to determine SAR compliance. In addition to the normally required head and body-worn accessory SAR test procedures required for handsets, the UMPC mini-tablet procedures must also be applied to test the SAR of all surfaces and edges with an antenna <=25 mm from that surface or edge, in direct contact with the phantom, for 10g SAR. The UMPC mini-tablet 1g SAR at 5 mm is not required. When hotspot mode applies, 10g SAR is required only for the surfaces and edges with hotspot mode 1g SAR > 1.2 W/kg.

6.9 Proximity Sensor Considerations

This device uses a power reduction mechanism to reduce output powers in certain use conditions when the device is used close the user's body.

When the device's antenna is within a certain distance of the user, the sensor activates and reduces the maximum allowed output power. However, the sensor is not active when the device is moved beyond the sensor triggering distance and the maximum output power is no longer limited. Therefore, additional evaluation is needed in the vicinity of the triggering distance to ensure SAR is compliant when the device is allowed to operate at a non-reduced output power level. FCC KDB Publication 616217 D04v01r02 Section 6 was used as a guideline for selecting SAR test distances for this device at these additional test positions. Sensor triggering distance summary data is included in Appendix G.

The sensor is designed to support sufficient detection range and sensitivity to cover regions of the sensors in all applicable directions since the sensor entirely covers the antennas.

7 RF EXPOSURE LIMITS

7.1 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.

7.2 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 7-1
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.

8 FCC MEASUREMENT PROCEDURES

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

8.1 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.

8.2 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.

8.3 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.

8.4 SAR Measurement Conditions for CDMA2000

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

8.4.1 Output Power Verification

See 3GPP2 C.S0011/TIA-98-E as recommended by FCC KDB Publication 941225 D01v03r01 “3G SAR Measurement Procedures.” Maximum output power is verified on the High, Middle and Low channels according to procedures in section 4.4.5.2 of 3GPP2 C.S0011/TIA-98-E. SO55 tests were measured with power control bits in the “All Up” condition.

1. If the mobile station (MS) supports Reverse TCH RC 1 and Forward TCH RC 1, set up a call using Fundamental Channel Test Mode 1 (RC=1/1) with 9600 bps data rate only.
2. Under RC1, C.S0011 Table 4.4.5.2-1, Table 8-1 parameters were applied.
3. If the MS supports the RC 3 Reverse FCH, RC3 Reverse SCH_0 and demodulation of RC 3,4, or 5, set up a call using Supplemental Channel Test Mode 3 (RC 3/3) with 9600 bps Fundamental Channel and 9600 bps SCH0 data rate.
4. Under RC3, C.S0011 Table 4.4.5.2-2, Table 8-2 was applied.

Table 8-1
Parameters for Max. Power for RC1

Parameter	Units	Value
$\hat{I}_{or}$	dBm/1.23 MHz	-104
$\frac{\text{Pilot } E_c}{I_{or}}$	dB	-7
$\frac{\text{Traffic } E_c}{I_{or}}$	dB	-7.4

Table 8-2
Parameters for Max. Power for RC3

Parameter	Units	Value
$\hat{I}_{or}$	dBm/1.23 MHz	-86
$\frac{\text{Pilot } E_c}{I_{or}}$	dB	-7
$\frac{\text{Traffic } E_c}{I_{or}}$	dB	-7.4

5. FCHs were configured at full rate for maximum SAR with “All Up” power control bits.

8.4.2 Head SAR Measurements

SAR for next to the ear head exposure is measured in RC3 with the handset configured to transmit at fullrate in SO55. The 3G SAR test reduction procedure is applied to RC1 with RC3 as the primary mode; otherwise, SAR is required for the channel with maximum measured output in RC1 using the head exposure configuration that results in the highest reported SAR in RC3.

Head SAR is additionally evaluated using EVDO Rev. A to support compliance for VoIP operations. See Section 8.4.5 for EVDO Rev. A configuration parameters.

8.4.3 Body-worn SAR Measurements

SAR for body-worn exposure configurations is measured in RC3 with the DUT configured to transmit at full rate on FCH with all other code channels disabled using TDSO / SO32. The 3G SAR test reduction procedure is applied to the multiple code channel configuration (FCH+SCHn), with FCH only as the primary mode. Otherwise, SAR is required for multiple code channel configuration (FCH + SCHn), with FCH at full rate and SCH0 enabled at 9600 bps, using the highest reported SAR configuration for FCH only. When multiple code channels are enabled, the transmitter output can shift by more than 0.5 dB and may lead to higher SAR drifts and SCH dropouts.

The 3G SAR test reduction procedure is applied to body-worn accessory SAR in RC1 with RC3 as the primary mode. Otherwise, SAR is required for RC1, with SO55 and full rate, using the highest reported SAR configuration for body-worn accessory exposure in RC3.

8.4.4 Body-worn SAR Measurements for EVDO Devices

For handsets with EVDO capabilities, the 3G SAR test reduction procedure is applied to EVDO Rev. 0 with 1x RTT RC3 as the primary mode to determine body-worn accessory test requirements. Otherwise, body-worn accessory SAR is required for Rev. 0, at 153.6 kbps, using the highest reported SAR configuration for body-worn accessory exposure in RC3.

The 3G SAR test reduction procedure is applied to Rev. A, with Rev. 0 as the primary mode to determine body-worn accessory SAR test requirements. When SAR is not required for Rev. 0, the 3G SAR test reduction is applied with 1x RTT RC3 as the primary mode.

When SAR is required for EVDO Rev. A, SAR is measured with a Reverse Data Channel payload size of 4096 bits and a Termination Target of 16 slots defined for Subtype 2 Physical Layer configurations, using the highest reported SAR configuration for body-worn accessory exposure in Rev. 0 or 1x RTT RC3, as appropriate.

8.4.5 Body SAR Measurements for EVDO Hotspot

Hotspot Body SAR is measured using Subtype 0/1 Physical Layer configurations for Rev. 0. The 3G SAR test reduction procedure is applied to Rev. A, Subtype 2 Physical layer configuration, with Rev. 0 as the primary mode; otherwise, SAR is measured for Rev. A using the highest reported SAR configuration for body-worn accessory exposure in Rev. 0. The AT is tested with a Reverse Data Channel rate of 153.6 kbps in Subtype 0/1 Physical Layer configurations; and a Reverse Data Channel payload size of 4096 bits and Termination Target of 16 slots in Subtype 2 Physical Layer configurations.

For EVDO data devices that also support 1x RTT voice and/or data operations, the 3G SAR test reduction procedure is applied to 1x RTT RC3 and RC1 with EVDO Rev. 0 and Rev. A as the respective primary modes. Otherwise, the 'Body-Worn Accessory SAR' procedures in the '3GPP2 CDMA 2000 1x Handsets' section are applied.

8.4.6 CDMA2000 1x Advanced

This device additionally supports 1x Advanced. Conducted powers are measured using SO75 with RC8 on the uplink and RC11 on the downlink per FCC KDB Publication 941225 D01v03r01. Smart blanking is disabled for all measurements. The EUT is configured with forward power control Mode 000 and reverse power control at 400 bps. Conducted powers are measured on an Agilent 8960 Series 10 Wireless Communications Test Set, Model E5515C using the CDMA2000 1x Advanced application, Option E1962B-410.

The 3G SAR test reduction procedure is applied to the 1x-Advanced transmission mode with 1x RTT RC3 as the primary mode. When SAR measurement is required, the 1x-Advanced power measurement configurations are used. The1x Advanced SAR procedures are applied separately to head, body-worn accessory and other exposure conditions.

8.5 SAR Measurement Conditions for UMTS

8.5.1 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.

8.5.2 Head SAR Measurements

SAR for next to the ear head exposure is measured using a 12.2 kbps RMC with TPC bits configured to all "1's". The 3G SAR test reduction procedure is applied to AMR configurations with 12.2 kbps RMC as the

primary mode. Otherwise, SAR is measured for 12.2 kbps AMR in 3.4 kbps SRB (signaling radio bearer) using the highest reported SAR configuration in 12.2 kbps RMC for head exposure.

8.5.3 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.

8.5.4 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.

8.5.5 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.

When VOIP applies to head exposure, the 3G SAR test reduction procedure is applied with 12.2 kbps RMC as the primary mode; otherwise, the same HSPA configuration used for body SAR measurements are applied to head exposure testing.

8.5.6 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.

8.6 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).

8.6.1 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.

8.6.2 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.

8.6.3 A-MPR

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

8.6.4 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.

8.6.5 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.

8.6.6 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.

8.7 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.

8.7.1 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.

8.7.2 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.

8.7.3 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.

8.7.4 Initial Test Position Procedure

For exposure conditions with multiple test positions, such as handset operating next to the ear, devices with hotspot mode or UMPC mini-tablet, procedures for initial test position can be applied. Using the transmission mode determined by the DSSS procedure or initial test configuration, area scans are measured for all positions in an exposure condition. The test position with the highest extrapolated (peak) SAR is used as the initial test position. When reported SAR for the initial test position is ≤ 0.4 W/kg, no additional testing for the remaining test positions is required. Otherwise, SAR is evaluated at the subsequent highest peak SAR

positions until the reported SAR result is ≤ 0.8 W/kg or all test positions are measured. When 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds above.

8.7.5 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.

8.7.6 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.

8.7.7 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 8.7.6). When 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds above.

8.7.8 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.

8.7.9 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.

9 RF CONDUCTED POWERS

All conducted power measurements for 2G/3G/4G/5G Sub6 WWAN technologies and bands in this section were performed by setting *Reserve_power_margin* (Qualcomm® Smart Transmit EFS entry) to 0dB, so that the EUT transmits continuously at minimum (P_{limit}, maximum tune up output power P_{max}).

9.1 CDMA Conducted Powers

Table 9-1
Measured P_{max}

Band	Channel	Rule Part	Frequency	SO55 [dBm]	SO55 [dBm]	SO75 [dBm]	TDSO SO32 [dBm]	TDSO SO32 [dBm]	1x EvDO Rev. 0 [dBm]	1x EvDO Rev. A [dBm]
	F-RC		MHz	RC1	RC3	RC11	FCH+SCH	FCH	(RTAP)	(RETAP)
Cellular	564	90S	820.1	24.55	24.55	24.61	24.56	24.54	24.50	24.58
Cellular	1013	22H	824.7	24.65	24.67	24.71	24.68	24.67	24.61	24.60
	384	22H	836.52	24.45	24.45	24.63	24.46	24.47	24.47	24.43
	777	22H	848.31	24.51	24.51	24.64	24.52	24.53	24.56	24.48
PCS	25	24E	1851.25	23.29	23.27	23.42	23.28	23.31	23.24	23.26
	600	24E	1880	23.34	23.36	23.41	23.37	23.32	23.27	23.20
	1175	24E	1908.75	23.16	23.15	23.43	23.16	23.16	22.99	22.98

Table 9-2
Measured P_{limit} for DSI = 1 (Phablet with grip sensor active), DSI = 3 (Hotspot mode), and/or DSI = 4 (Earjack active)

Band	Channel	Rule Part	Frequency	SO55 [dBm]	SO55 [dBm]	SO75 [dBm]	TDSO SO32 [dBm]	TDSO SO32 [dBm]	1x EvDO Rev. 0 [dBm]	1x EvDO Rev. A [dBm]
	F-RC		MHz	RC1	RC3	RC11	FCH+SCH	FCH	(RTAP)	(RETAP)
PCS	25	24E	1851.25	19.24	19.24	19.31	19.27	19.24	19.29	19.28
	600	24E	1880	19.30	19.30	19.26	19.31	19.30	19.36	19.32
	1175	24E	1908.75	19.16	19.15	19.21	19.17	19.15	19.19	19.21

Note: RC1 is only applicable for IS-95 compatibility. For FCC Rule Part 90S, Per FCC KDB Publication 447498 D01v06 4.1.g), only one channel is required since the device operates within the transmission range of 817.90 – 823.10 MHz.

Figure 9-1
Power Measurement Setup

9.2 GSM Conducted Powers

Table 9-3
Measured P_{max}

Maximum Burst-Averaged Output Power										
		Voice	*GPRS/EDGE Data (GMSK)*				*EDGE Data (8-PSK)*			
Band	**Channel**	**GSM [dBm] CS (1 Slot)**	**GPRS [dBm] 1 Tx Slot**	**GPRS [dBm] 2 Tx Slot**	**GPRS [dBm] 3 Tx Slot**	**GPRS [dBm] 4 Tx Slot**	**EDGE [dBm] 1 Tx Slot**	**EDGE [dBm] 2 Tx Slot**	**EDGE [dBm] 3 Tx Slot**	**EDGE [dBm] 4 Tx Slot**
GSM 850	128	32.48	32.60	31.27	**29.32**	27.24	26.73	24.75	22.70	21.68
	190	32.17	32.44	31.52	**29.16**	27.24	26.70	24.88	22.78	21.72
	251	32.33	32.31	31.28	**29.11**	27.17	26.53	24.90	22.77	21.69
GSM 1900	512	29.10	29.26	28.08	**26.18**	24.35	25.19	23.91	21.81	20.62
	661	28.93	29.42	28.15	**26.30**	24.50	25.38	23.96	21.99	20.82
	810	29.15	29.34	28.03	**25.86**	24.30	25.75	23.74	21.79	20.76

Calculated Maximum Frame-Averaged Output Power										
		Voice	*GPRS/EDGE Data (GMSK)*				*EDGE Data (8-PSK)*			
Band	**Channel**	**GSM [dBm] CS (1 Slot)**	**GPRS [dBm] 1 Tx Slot**	**GPRS [dBm] 2 Tx Slot**	**GPRS [dBm] 3 Tx Slot**	**GPRS [dBm] 4 Tx Slot**	**EDGE [dBm] 1 Tx Slot**	**EDGE [dBm] 2 Tx Slot**	**EDGE [dBm] 3 Tx Slot**	**EDGE [dBm] 4 Tx Slot**
GSM 850	128	23.28	23.40	25.08	**24.89**	24.06	17.53	18.56	18.27	18.50
	190	22.97	23.24	25.33	**24.73**	24.06	17.50	18.69	18.35	18.54
	251	23.13	23.11	25.09	**24.68**	23.99	17.33	18.71	18.34	18.51
GSM 1900	512	19.90	20.06	21.89	**21.75**	21.17	15.99	17.72	17.38	17.44
	661	19.73	20.22	21.96	**21.87**	21.32	16.18	17.77	17.56	17.64
	810	19.95	20.14	21.84	**21.43**	21.12	16.55	17.55	17.36	17.58

GSM 850	**Frame Avg.Targets:**	23.30	23.30	24.81	**24.57**	23.82	17.30	18.31	18.07	18.32
GSM 1900		19.80	19.80	21.31	**21.07**	20.32	16.30	16.81	16.57	16.82

Table 9-4
Measured P_{limit} for DSI = 1 (Phablet with grip sensor active), DSI = 3 (Hotspot mode), and/or DSI = 4 (Earjack active)

Maximum Burst-Averaged Output Power										
		Voice	*GPRS/EDGE Data (GMSK)*				*EDGE Data (8-PSK)*			
Band	**Channel**	**GSM [dBm] CS (1 Slot)**	**GPRS [dBm] 1 Tx Slot**	**GPRS [dBm] 2 Tx Slot**	**GPRS [dBm] 3 Tx Slot**	**GPRS [dBm] 4 Tx Slot**	**EDGE [dBm] 1 Tx Slot**	**EDGE [dBm] 2 Tx Slot**	**EDGE [dBm] 3 Tx Slot**	**EDGE [dBm] 4 Tx Slot**
GSM 1900	512	28.10	28.25	25.06	23.21	**22.00**	25.19	23.91	21.81	20.62
	661	28.31	28.45	25.17	23.36	**22.11**	25.38	23.96	21.99	20.82
	810	28.13	28.24	25.11	23.25	**22.00**	25.75	23.74	21.79	20.76

Calculated Maximum Frame-Averaged Output Power										
		Voice	*GPRS/EDGE Data (GMSK)*				*EDGE Data (8-PSK)*			
Band	**Channel**	**GSM [dBm] CS (1 Slot)**	**GPRS [dBm] 1 Tx Slot**	**GPRS [dBm] 2 Tx Slot**	**GPRS [dBm] 3 Tx Slot**	**GPRS [dBm] 4 Tx Slot**	**EDGE [dBm] 1 Tx Slot**	**EDGE [dBm] 2 Tx Slot**	**EDGE [dBm] 3 Tx Slot**	**EDGE [dBm] 4 Tx Slot**
GSM 1900	512	18.90	19.05	18.87	18.78	**18.82**	15.99	17.72	17.38	17.44
	661	19.11	19.25	18.98	18.93	**18.93**	16.18	17.77	17.56	17.64
	810	18.93	19.04	18.92	18.82	**18.82**	16.55	17.55	17.36	17.58
GSM 1900	**Frame Avg.Targets:**	18.80	18.80	18.81	18.77	**18.82**	16.30	16.81	16.57	16.82

Note:

1. Both burst-averaged and calculated frame-averaged powers are included. Frame-averaged power was calculated from the measured burst-averaged power by converting the slot powers into linear units and calculating the energy over 8 timeslots.
2. GPRS/EDGE (GMSK) output powers were measured with coding scheme setting of 1 (CS1) on the base station simulator. CS1 was configured to measure GPRS output power measurements and SAR to ensure GMSK modulation in the signal. Our Investigation has shown that CS1 - CS4 settings do not have any impact on the output levels or modulation in the GPRS modes.
3. EDGE (8-PSK) output powers were measured with MCS7 on the base station simulator. MCS7 coding scheme was used to measure the output powers for EDGE since investigation has shown that choosing MCS7 coding scheme will ensure 8-PSK modulation. It has been shown that MCS levels that produce 8-PSK modulation do not have an impact on output power.

GSM Class: B
GPRS Multislot class: 33 (Max 4 Tx uplink slots)
EDGE Multislot class: 33 (Max 4 Tx uplink slots)
DTM Multislot Class: N/A

Figure 9-2
Power Measurement Setup

9.3 UMTS Conducted Powers

Table 9-5
Measured P_{max}

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	24.71	24.70	24.63	23.99	23.92	23.59	23.26	23.21	23.29	-
99		12.2 kbps AMR	24.68	24.66	24.70	23.98	23.94	23.65	23.31	23.15	23.38	-
6	HSDPA	Subtest 1	23.45	23.54	23.45	22.27	22.23	22.35	22.24	22.33	22.26	0
6		Subtest 2	23.59	23.57	23.60	22.28	22.14	22.36	22.23	22.36	22.23	0
6		Subtest 3	23.10	23.16	23.07	21.81	21.67	21.85	21.73	21.79	21.56	0.5
6		Subtest 4	23.14	23.15	23.14	21.77	21.66	21.82	21.65	21.86	21.76	0.5
6	HSUPA	Subtest 1	23.60	23.58	23.59	22.00	21.84	22.06	22.29	22.38	22.27	0
6		Subtest 2	21.59	21.60	21.57	20.23	20.08	20.30	20.23	20.33	20.25	2
6		Subtest 3	22.59	22.62	22.60	21.21	21.11	21.26	21.16	21.29	21.20	1
6		Subtest 4	21.59	21.59	21.60	20.22	20.10	20.31	20.23	20.33	20.23	2
6		Subtest 5	23.61	23.64	23.60	22.20	22.05	22.30	22.23	22.36	22.27	0
8	DC-HSDPA	Subtest 1	23.68	23.46	23.66	22.35	22.20	22.40	22.25	22.45	22.17	0
8		Subtest 2	23.54	23.61	23.62	22.34	22.20	22.42	22.34	21.69	22.42	0
8		Subtest 3	23.19	23.14	23.14	21.87	21.34	21.92	21.80	21.93	21.73	0.5
8		Subtest 4	23.18	23.20	23.17	21.83	21.56	21.91	21.89	21.97	21.92	0.5

Table 9-6
Measured P_{limit} for DSI = 1 (Phablet with grip sensor active), DSI = 3 (Hotspot mode), and/or DSI = 4 (Earjack active)

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	19.35	19.18	19.21	19.22	19.36	19.32	-
99		12.2 kbps AMR	19.19	19.21	19.26	19.19	19.25	19.21	-
6	HSDPA	Subtest 1	18.40	18.12	18.35	18.20	18.26	18.24	0
6		Subtest 2	18.32	18.25	18.40	18.26	18.28	18.22	0
6		Subtest 3	17.86	17.74	17.88	17.70	17.78	17.71	0.5
6		Subtest 4	17.67	17.74	17.91	17.70	17.75	17.73	0.5
6	HSUPA	Subtest 1	18.30	18.14	18.40	18.32	18.42	18.33	0
6		Subtest 2	16.25	16.10	16.35	16.26	16.38	16.24	2
6		Subtest 3	17.25	17.11	17.14	17.23	17.33	17.24	1
6		Subtest 4	16.27	16.13	16.33	16.27	16.37	16.27	2
6		Subtest 5	18.26	18.12	18.34	18.25	18.38	18.29	0
8	DC-HSDPA	Subtest 1	18.40	18.04	18.12	18.30	18.13	18.40	0
8		Subtest 2	18.03	17.80	18.17	18.29	18.28	18.43	0
8		Subtest 3	17.79	17.44	17.87	17.76	17.83	17.74	0.5
8		Subtest 4	17.74	17.66	17.89	17.76	17.74	17.80	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

It is expected by the manufacturer that MPR for some HSPA subtests may be up to 2 dB more than specified by 3GPP, but also as low as 0 dB according to the chipset implementation in this model.

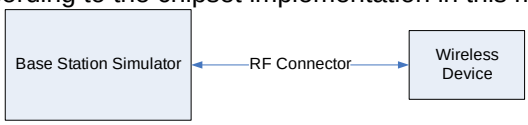


Figure 9-3
Power Measurement Setup

9.3.1 LTE Band 71

Table 9-7
LTE Band 71 Measured P_{Max} for all DSI - 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	25.14	0	0
	1	50	**25.29**		0
	1	99	25.15		0
	50	0	24.15	0-1	1
	50	25	**24.37**		1
	50	50	24.33		1
	100	0	24.21		1
16QAM	1	0	24.57	0-1	1
	1	50	24.52		1
	1	99	24.58		1
	50	0	23.17	0-2	2
	50	25	23.33		2
	50	50	23.29		2
	100	0	23.28		2
64QAM	1	0	23.31	0-2	2
	1	50	23.46		2
	1	99	23.52		2
	50	0	22.19	0-3	3
	50	25	22.38		3
	50	50	22.33		3
	100	0	22.25		3
256QAM	1	0	20.01	0-5	5
	1	50	19.96		5
	1	99	20.26		5
	50	0	20.09		5
	50	25	20.30		5
	50	50	20.35		5
	100	0	20.26		5

Note: LTE Band 71 at 20 MHz bandwidth does not support three non-overlapping channels. Per KDB Publication 941225 D05v02, 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.

Table 9-8
LTE Band 71 Measured P_{Max} for all DSI - 15 MHz Bandwidth

LTE Band 71 15 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	25.17	0	0
	1	36	25.10		0
	1	74	25.09		0
	36	0	24.16	0-1	1
	36	18	24.22		1
	36	37	24.25		1
	75	0	24.22		1
16QAM	1	0	24.55	0-1	1
	1	36	24.52		1
	1	74	24.41		1
	36	0	23.19	0-2	2
	36	18	23.21		2
	36	37	23.27		2
	75	0	23.26		2
64QAM	1	0	23.41	0-2	2
	1	36	23.47		2
	1	74	23.37		2
	36	0	22.17	0-3	3
	36	18	22.23		3
	36	37	22.30		3
	75	0	22.23		3
256QAM	1	0	20.11	0-5	5
	1	36	20.32		5
	1	74	20.26		5
	36	0	20.19		5
	36	18	20.22		5
	36	37	20.24		5
	75	0	20.23		5

Note: LTE Band 71 at 15 MHz bandwidth does not support three non-overlapping channels. Per KDB Publication 941225 D05v02, 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.

Table 9-9
LTE Band 71 Measured P_{Max} for all DSI - 10 MHz Bandwidth

LTE Band 71 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 133172 (668.0 MHz)	Mid Channel 133297 (680.5 MHz)	High Channel 133422 (693.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	25.11	25.12	25.20	0	0
	1	25	25.00	25.07	25.12		0
	1	49	25.08	25.14	25.08		0
	25	0	24.13	24.23	24.27	0-1	1
	25	12	24.21	24.22	24.28		1
	25	25	24.16	24.19	24.27		1
	50	0	24.18	24.18	24.16		1
16QAM	1	0	24.62	24.22	24.66	0-1	1
	1	25	24.52	24.64	24.64		1
	1	49	24.63	24.66	24.65		1
	25	0	23.15	23.25	23.27	0-2	2
	25	12	23.22	23.18	23.24		2
	25	25	23.10	23.24	23.17		2
	50	0	23.17	23.22	23.16		2
64QAM	1	0	22.95	23.32	23.36	0-2	2
	1	25	23.24	23.41	23.31		2
	1	49	23.34	23.35	23.37		2
	25	0	22.09	22.22	22.30	0-3	3
	25	12	22.11	22.27	22.23		3
	25	25	22.02	22.24	22.32		3
	50	0	21.99	22.31	22.20		3
256QAM	1	0	20.02	20.08	20.09	0-5	5
	1	25	20.25	20.39	20.44		5
	1	49	20.10	20.12	20.11		5
	25	0	20.09	20.12	20.19		5
	25	12	20.24	20.24	20.30		5
	25	25	20.14	20.26	20.24		5
	50	0	20.16	20.18	20.18		5

Table 9-10
LTE Band 71 Measured P_{Max} for all DSI - 5 MHz Bandwidth

LTE Band 71 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 133147 (665.5 MHz)	Mid Channel 133297 (680.5 MHz)	High Channel 133447 (695.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	25.07	25.07	25.13	0	0
	1	12	25.20	25.22	25.26		0
	1	24	25.08	25.18	25.23		0
	12	0	24.41	24.19	24.24	0-1	1
	12	6	24.25	24.29	24.36		1
	12	13	24.22	24.31	24.34		1
	25	0	24.21	24.26	24.33		1
16QAM	1	0	24.40	24.40	24.52	0-1	1
	1	12	24.48	24.56	24.70		1
	1	24	24.52	24.55	24.63		1
	12	0	23.26	23.26	23.34	0-2	2
	12	6	23.27	23.37	23.42		2
	12	13	23.25	23.34	23.45		2
	25	0	23.23	23.36	23.31		2
64QAM	1	0	22.76	23.25	23.36	0-2	2
	1	12	22.93	23.44	23.50		2
	1	24	23.20	23.40	23.44		2
	12	0	21.69	22.22	22.33	0-3	3
	12	6	21.92	22.30	22.37		3
	12	13	22.09	22.34	22.41		3
	25	0	21.85	22.29	22.25		3
256QAM	1	0	20.21	20.24	20.30	0-5	5
	1	12	20.12	20.42	20.47		5
	1	24	20.29	20.40	20.42		5
	12	0	20.22	20.22	20.33		5
	12	6	20.28	20.35	20.43		5
	12	13	20.29	20.35	20.32		5
	25	0	20.18	20.29	20.32		5

9.3.2 LTE Band 12

Table 9-11
LTE Band 12 Measured P_{Max} for all DSI - 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	**25.30**	0	0
	1	25	25.18		0
	1	49	25.20		0
	25	0	24.15	0-1	1
	25	12	**24.38**		1
	25	25	24.28		1
	50	0	24.30		1
16QAM	1	0	24.57	0-1	1
	1	25	24.33		1
	1	49	24.64		1
	25	0	23.20	0-2	2
	25	12	23.34		2
	25	25	23.25		2
	50	0	23.25		2
64QAM	1	0	23.32	0-2	2
	1	25	23.41		2
	1	49	23.45		2
	25	0	22.23	0-3	3
	25	12	22.31		3
	25	25	22.24		3
	50	0	22.30		3
256QAM	1	0	20.01	0-5	5
	1	25	20.37		5
	1	49	20.32		5
	25	0	20.25		5
	25	12	20.39		5
	25	25	20.25		5
	50	0	20.29		5

Note: LTE Band 12 at 10 MHz bandwidth does not support three non-overlapping channels. Per KDB Publication 941225 D05v02, 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.

Table 9-12
LTE Band 12 Measured P_{Max} for all DSI - 5 MHz Bandwidth

LTE Band 12 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 23035 (701.5 MHz)	Mid Channel 23095 (707.5 MHz)	High Channel 23155 (713.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	25.01	25.15	25.14	0	0
	1	12	24.99	25.23	25.16		0
	1	24	25.00	25.14	25.17		0
	12	0	24.10	24.15	24.27	0-1	1
	12	6	24.16	24.20	24.33		1
	12	13	24.11	24.25	24.29		1
	25	0	24.15	24.24	24.26		1
16QAM	1	0	24.42	24.48	24.51	0-1	1
	1	12	24.39	24.38	24.44		1
	1	24	24.43	24.48	24.56		1
	12	0	23.21	23.26	23.30	0-2	2
	12	6	23.27	23.33	23.36		2
	12	13	23.22	23.30	23.37		2
	25	0	23.18	23.23	23.26		2
64QAM	1	0	23.23	23.31	23.38	0-2	2
	1	12	23.30	23.33	23.36		2
	1	24	23.13	23.28	23.31		2
	12	0	22.18	22.21	22.21	0-3	3
	12	6	22.25	22.29	22.15		3
	12	13	22.16	22.28	22.01		3
	25	0	22.20	22.27	22.24		3
256QAM	1	0	20.18	20.25	20.29	0-5	5
	1	12	20.25	20.28	20.45		5
	1	24	20.23	20.26	20.40		5
	12	0	20.12	20.21	20.27		5
	12	6	20.15	20.26	20.35		5
	12	13	20.13	20.20	20.30		5
	25	0	20.17	20.21	20.29		5

Table 9-13
LTE Band 12 Measured P_{Max} for all DSI - 3 MHz Bandwidth

LTE Band 12 3 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 23025 (700.5 MHz)	Mid Channel 23095 (707.5 MHz)	High Channel 23165 (714.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	25.07	25.06	25.26	0	0
	1	7	24.99	25.11	25.12		0
	1	14	25.00	25.16	25.08		0
	8	0	24.16	24.19	24.27	0-1	1
	8	4	24.14	24.21	24.35		1
	8	7	24.09	24.24	24.31		1
	15	0	24.14	24.17	24.28		1
16QAM	1	0	24.50	24.48	24.59	0-1	1
	1	7	24.44	24.41	24.55		1
	1	14	24.51	24.42	24.68		1
	8	0	23.24	23.23	23.41	0-2	2
	8	4	23.23	23.34	23.38		2
	8	7	23.31	23.28	23.38		2
	15	0	23.18	23.24	23.27		2
64QAM	1	0	23.25	23.31	23.35	0-2	2
	1	7	23.28	23.36	23.27		2
	1	14	23.13	23.27	23.32		2
	8	0	21.98	22.20	22.21	0-3	3
	8	4	22.12	22.30	22.16		3
	8	7	22.08	22.22	22.18		3
	15	0	22.22	22.28	22.26		3
256QAM	1	0	20.28	20.28	20.40	0-5	5
	1	7	20.20	20.28	20.38		5
	1	14	20.19	20.32	20.39		5
	8	0	20.19	20.17	20.32		5
	8	4	20.27	20.27	20.40		5
	8	7	20.21	20.26	20.38		5
	15	0	20.18	20.25	20.36		5

Table 9-14
LTE Band 12 Measured P_{Max} for all DSI - 1.4 MHz Bandwidth

LTE Band 12 1.4 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 23017 (699.7 MHz)	Mid Channel 23095 (707.5 MHz)	High Channel 23173 (715.3 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	25.00	24.99	25.12	0	0
	1	2	25.04	25.06	25.16		0
	1	5	24.95	25.01	25.12		0
	3	0	25.03	25.00	25.13		0
	3	2	25.08	25.08	25.15		0
	3	3	25.01	25.04	25.16		0
	6	0	24.11	24.14	24.20	0-1	1
16QAM	1	0	24.48	24.42	24.54	0-1	1
	1	2	24.43	24.41	24.56		1
	1	5	24.27	24.24	24.52		1
	3	0	24.20	24.16	24.35		1
	3	2	24.18	24.25	24.36		1
	3	3	24.22	24.18	24.44		1
	6	0	23.17	23.20	23.24	0-2	2
64QAM	1	0	23.22	23.24	23.38	0-2	2
	1	2	23.25	23.35	23.44		2
	1	5	23.16	23.33	23.37		2
	3	0	23.04	23.16	23.32		2
	3	2	23.28	23.28	23.39		2
	3	3	23.14	23.23	23.31		2
	6	0	22.10	22.23	22.24	0-3	3
256QAM	1	0	20.20	20.16	20.40	0-5	5
	1	2	20.49	20.31	20.41		5
	1	5	20.14	20.18	20.44		5
	3	0	20.15	20.19	20.39		5
	3	2	20.27	20.33	20.42		5
	3	3	20.24	20.22	20.36		5
	6	0	20.12	20.08	20.31		5

9.3.3 LTE Band 13

Table 9-15
LTE Band 13 Measured P_{Max} for all DSI - 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	**25.33**	0	0
	1	25	25.17		0
	1	49	25.14		0
	25	0	24.17	0-1	1
	25	12	**24.27**		1
	25	25	24.25		1
	50	0	24.26		1
16QAM	1	0	24.78	0-1	1
	1	25	24.62		1
	1	49	24.50		1
	25	0	23.29	0-2	2
	25	12	23.35		2
	25	25	23.35		2
	50	0	23.22		2
64QAM	1	0	23.39	0-2	2
	1	25	23.42		2
	1	49	23.33		2
	25	0	21.91	0-3	3
	25	12	22.28		3
	25	25	22.26		3
	50	0	22.28		3
256QAM	1	0	20.13	0-5	5
	1	25	20.32		5
	1	49	20.08		5
	25	0	20.18		5
	25	12	20.29		5
	25	25	20.20		5
	50	0	20.28		5

Table 9-16
LTE Band 13 Measured P_{Max} for all DSI - 5 MHz Bandwidth

LTE Band 13 5 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	25.23	0	0
	1	12	25.10		0
	1	24	25.10		0
	12	0	24.06	0-1	1
	12	6	24.14		1
	12	13	24.12		1
	25	0	24.19		1
16QAM	1	0	24.57	0-1	1
	1	12	24.38		1
	1	24	24.22		1
	12	0	23.15	0-2	2
	12	6	23.15		2
	12	13	23.17		2
	25	0	23.16		2
64QAM	1	0	23.32	0-2	2
	1	12	23.40		2
	1	24	23.32		2
	12	0	21.61	0-3	3
	12	6	22.18		3
	12	13	22.14		3
	25	0	22.14		3
256QAM	1	0	20.28	0-5	5
	1	12	20.39		5
	1	24	20.30		5
	12	0	20.13		5
	12	6	20.19		5
	12	13	20.18		5
	25	0	20.22		5

Note: LTE Band 13 at 5 MHz bandwidth does not support three non-overlapping channels. Per KDB Publication 941225 D05v02, 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.

9.3.4 LTE Band 14

Table 9-17
LTE Band 14 Measured P_{Max} for all DSI - 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	**25.30**	0	0
	1	25	25.06		0
	1	49	24.98		0
	25	0	24.23	0-1	1
	25	12	**24.27**		1
	25	25	24.05		1
	50	0	24.19		1
16QAM	1	0	24.80	0-1	1
	1	25	24.52		1
	1	49	24.53		1
	25	0	23.24	0-2	2
	25	12	23.24		2
	25	25	23.07		2
	50	0	23.13		2
64QAM	1	0	23.53	0-2	2
	1	25	23.26		2
	1	49	23.09		2
	25	0	22.25	0-3	3
	25	12	22.30		3
	25	25	22.13		3
	50	0	22.15		3
256QAM	1	0	20.10	0-5	5
	1	25	20.24		5
	1	49	19.93		5
	25	0	20.24		5
	25	12	20.25		5
	25	25	20.09		5
	50	0	20.18		5

Table 9-18
LTE Band 14 Measured P_{Max} for all DSI - 5 MHz Bandwidth

LTE Band 14 5 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	25.28	0	0
	1	12	25.00		0
	1	24	24.99		0
	12	0	24.28	0-1	1
	12	6	24.28		1
	12	13	23.99		1
	25	0	24.04		1
16QAM	1	0	24.66	0-1	1
	1	12	24.30		1
	1	24	24.22		1
	12	0	23.29	0-2	2
	12	6	23.33		2
	12	13	23.32		2
	25	0	23.29		2
64QAM	1	0	23.32	0-2	2
	1	12	23.29		2
	1	24	23.30		2
	12	0	22.30	0-3	3
	12	6	22.29		3
	12	13	22.19		3
	25	0	22.30		3
256QAM	1	0	20.31	0-5	5
	1	12	20.35		5
	1	24	20.18		5
	12	0	20.24		5
	12	6	20.20		5
	12	13	20.09		5
	25	0	20.15		5

Note: LTE Band 14 at 5 MHz bandwidth does not support three non-overlapping channels. Per KDB Publication 941225 D05v02, 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.

9.3.5 LTE Band 26

Table 9-19
LTE Band 26 (Cell) Measured P_{Max} for all DSI - 15 MHz Bandwidth

LTE Band 26 (Cell) 15 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel 26865 (831.5 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
QPSK	1	0	**25.10**	0	0
	1	36	25.09		0
	1	74	25.09		0
	36	0	**24.30**	0-1	1
	36	18	24.26		1
	36	37	24.27		1
	75	0	24.25		1
16QAM	1	0	24.65	0-1	1
	1	36	24.58		1
	1	74	24.37		1
	36	0	23.25	0-2	2
	36	18	23.29		2
	36	37	23.22		2
	75	0	23.29		2
64QAM	1	0	23.46	0-2	2
	1	36	23.46		2
	1	74	23.45		2
	36	0	22.33	0-3	3
	36	18	22.24		3
	36	37	22.24		3
	75	0	22.31		3
256QAM	1	0	20.16	0-5	5
	1	36	20.40		5
	1	74	20.22		5
	36	0	20.28		5
	36	18	20.28		5
	36	37	20.15		5
	75	0	20.27		5

Note: LTE Band 26 at 15 MHz bandwidth does not support three non-overlapping channels. Per KDB Publication 941225 D05v02, 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.

Table 9-20
LTE Band 26 (Cell) Measured P_{Max} for all DSI - 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	25.25	25.10	25.11	0	0
	1	25	25.15	25.03	25.07		0
	1	49	25.09	25.04	25.03		0
	25	0	24.17	24.11	24.06	0-1	1
	25	12	24.34	24.24	24.22		1
	25	25	24.23	24.21	24.12		1
	50	0	24.25	24.22	24.05		1
16QAM	1	0	24.40	24.25	24.34	0-1	1
	1	25	24.33	24.19	24.18		1
	1	49	24.29	24.20	24.20		1
	25	0	23.23	23.20	23.08	0-2	2
	25	12	23.37	23.31	23.24		2
	25	25	23.27	23.29	23.18		2
	50	0	23.22	23.18	23.08		2
64QAM	1	0	23.33	23.44	23.22	0-2	2
	1	25	23.37	23.47	23.29		2
	1	49	23.28	23.33	23.23		2
	25	0	22.26	22.27	22.21	0-3	3
	25	12	22.44	22.34	22.39		3
	25	25	22.30	22.27	22.32		3
	50	0	22.26	22.26	22.11		3
256QAM	1	0	19.95	19.99	20.44	0-5	5
	1	25	20.02	20.36	20.77		5
	1	49	19.84	20.01	20.44		5
	25	0	20.28	20.18	20.18		5
	25	12	20.44	20.27	20.35		5
	25	25	20.36	20.25	20.26		5
	50	0	20.28	20.22	20.16		5

Table 9-21
LTE Band 26 (Cell) Measured P_{Max} for all DSI - 5 MHz Bandwidth

LTE Band 26 (Cell) 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 26715 (816.5 MHz)	Mid Channel 26865 (831.5 MHz)	High Channel 27015 (846.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	25.18	25.02	25.16	0	0
	1	12	25.30	25.08	25.17		0
	1	24	25.26	25.08	25.19		0
	12	0	24.35	24.14	24.11	0-1	1
	12	6	24.38	24.20	24.23		1
	12	13	24.31	24.25	24.20		1
	25	0	24.36	24.25	24.16		1
16QAM	1	0	24.36	24.20	24.59	0-1	1
	1	12	24.52	24.25	24.64		1
	1	24	24.40	24.24	24.67		1
	12	0	23.44	23.19	23.04	0-2	2
	12	6	23.50	23.26	23.13		2
	12	13	23.46	23.30	23.14		2
	25	0	23.33	23.23	23.23		2
64QAM	1	0	23.22	23.42	23.35	0-2	2
	1	12	23.41	23.43	23.38		2
	1	24	23.26	23.44	23.43		2
	12	0	22.44	22.24	22.16	0-3	3
	12	6	22.49	22.29	22.20		3
	12	13	22.43	22.31	22.19		3
	25	0	22.41	22.24	22.16		3
256QAM	1	0	20.25	20.35	20.20	0-5	5
	1	12	20.37	20.47	20.34		5
	1	24	20.36	20.38	20.18		5
	12	0	20.40	20.27	20.21		5
	12	6	20.49	20.35	20.27		5
	12	13	20.45	20.36	20.26		5
	25	0	20.33	20.31	20.25		5

Table 9-22
LTE Band 26 (Cell) Measured P_{Max} for all DSI - 3 MHz Bandwidth

LTE Band 26 (Cell) 3 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 26705 (815.5 MHz)	Mid Channel 26865 (831.5 MHz)	High Channel 27025 (847.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	25.18	25.14	25.07	0	0
	1	7	25.14	25.11	25.04		0
	1	14	25.12	25.17	25.04		0
	8	0	24.33	24.20	24.11	0-1	1
	8	4	24.35	24.24	24.25		1
	8	7	24.32	24.25	24.20		1
	15	0	24.36	24.27	24.12		1
16QAM	1	0	24.31	24.25	24.30	0-1	1
	1	7	24.26	24.26	24.28		1
	1	14	24.30	24.27	24.30		1
	8	0	23.40	23.35	23.33	0-2	2
	8	4	23.46	23.43	23.36		2
	8	7	23.43	23.40	23.34		2
	15	0	23.40	23.23	23.24		2
64QAM	1	0	23.54	23.26	23.22	0-2	2
	1	7	23.50	23.30	23.36		2
	1	14	23.48	23.32	23.21		2
	8	0	22.47	22.18	22.16	0-3	3
	8	4	22.47	22.26	22.30		3
	8	7	22.43	22.22	22.22		3
	15	0	22.33	22.39	22.16		3
256QAM	1	0	20.06	20.31	20.50	0-5	5
	1	7	20.05	20.32	20.40		5
	1	14	20.07	20.32	20.43		5
	8	0	20.43	20.12	20.30		5
	8	4	20.42	20.25	20.42		5
	8	7	20.38	20.16	20.34		5
	15	0	20.40	20.31	20.20		5

Table 9-23
LTE Band 26 (Cell) Measured P_{Max} for all DSI - 1.4 MHz Bandwidth

LTE Band 26 (Cell) 1.4 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 26697 (814.7 MHz)	Mid Channel 26865 (831.5 MHz)	High Channel 27033 (848.3 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	25.08	25.14	24.97	0	0
	1	2	25.16	25.30	25.01		0
	1	5	25.04	25.24	24.97		0
	3	0	25.19	25.04	25.04		0
	3	2	25.24	25.16	25.12		0
	3	3	25.16	25.10	25.04		0
	6	0	24.27	24.16	24.08	0-1	1
16QAM	1	0	24.26	23.87	24.12	0-1	1
	1	2	24.26	24.01	24.09		1
	1	5	24.22	23.96	24.07		1
	3	0	24.18	24.12	24.02		1
	3	2	24.17	24.25	24.07		1
	3	3	24.14	24.19	24.03		1
	6	0	23.29	23.17	23.15	0-2	2
64QAM	1	0	23.42	23.41	23.26	0-2	2
	1	2	23.47	23.56	23.33		2
	1	5	23.45	23.45	23.31		2
	3	0	23.32	23.19	23.19		2
	3	2	23.40	23.33	23.26		2
	3	3	23.32	23.26	23.17		2
	6	0	22.37	22.29	22.21	0-3	3
256QAM	1	0	20.00	20.14	20.15	0-5	5
	1	2	20.07	20.27	20.27		5
	1	5	19.97	20.27	20.15		5
	3	0	20.26	20.24	20.29		5
	3	2	20.33	20.31	20.27		5
	3	3	20.29	20.25	20.26		5
	6	0	20.32	20.12	20.26		5

9.3.6 LTE Band 5

Table 9-24
LTE Band 5 (Cell) Measured P_{Max} for all DSI - 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	24.60	0	0
	1	25	24.59		0
	1	49	**24.71**		0
	25	0	23.66	0-1	1
	25	12	23.62		1
	25	25	**23.67**		1
	50	0	23.58		1
16QAM	1	0	24.15	0-1	1
	1	25	24.17		1
	1	49	24.18		1
	25	0	22.72	0-2	2
	25	12	22.72		2
	25	25	22.78		2
	50	0	22.61		2
64QAM	1	0	22.68	0-2	2
	1	25	22.81		2
	1	49	22.80		2
	25	0	21.74	0-3	3
	25	12	21.75		3
	25	25	21.78		3
	50	0	21.66		3
256QAM	1	0	19.64	0-5	5
	1	25	19.72		5
	1	49	19.66		5
	25	0	19.62		5
	25	12	19.69		5
	25	25	19.69		5
	50	0	19.57		5

Note: LTE Band 5 at 10 MHz bandwidth does not support three non-overlapping channels. Per KDB Publication 941225 D05v02, 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.

Table 9-25
LTE Band 5 (Cell) Measured P_{Max} for all DSI - 5 MHz Bandwidth

LTE Band 5 (Cell) 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 20425 (826.5 MHz)	Mid Channel 20525 (836.5 MHz)	High Channel 20625 (846.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	24.54	24.72	24.89	0	0
	1	12	24.62	24.86	24.98		0
	1	24	24.59	24.84	24.89		0
	12	0	23.57	23.82	23.95	0-1	1
	12	6	23.69	23.92	24.01		1
	12	13	23.72	23.91	23.97		1
	25	0	23.63	23.90	23.94		1
16QAM	1	0	23.98	23.95	24.10	0-1	1
	1	12	24.10	24.10	24.22		1
	1	24	24.16	24.03	24.13		1
	12	0	22.54	22.90	23.02	0-2	2
	12	6	22.67	23.08	23.11		2
	12	13	22.62	23.04	23.10		2
	25	0	22.77	22.84	22.98		2
64QAM	1	0	22.73	22.78	22.91	0-2	2
	1	12	22.77	23.00	23.13		2
	1	24	22.85	22.90	22.96		2
	12	0	21.62	21.95	22.05	0-3	3
	12	6	21.74	22.03	22.12		3
	12	13	21.69	22.05	22.13		3
	25	0	21.63	21.95	22.04		3
256QAM	1	0	19.65	19.72	19.71	0-5	5
	1	12	19.76	19.88	19.65		5
	1	24	19.79	19.86	19.83		5
	12	0	19.73	19.84	19.99		5
	12	6	19.80	19.99	20.06		5
	12	13	19.78	19.93	20.07		5
	25	0	19.70	19.93	19.94		5

Table 9-26
LTE Band 5 (Cell) Measured P_{Max} for all DSI - 3 MHz Bandwidth

LTE Band 5 (Cell) 3 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 20415 (825.5 MHz)	Mid Channel 20525 (836.5 MHz)	High Channel 20635 (847.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	24.48	24.68	24.79	0	0
	1	7	24.40	24.72	24.83		0
	1	14	24.47	24.79	24.86		0
	8	0	23.66	23.74	23.94	0-1	1
	8	4	23.69	23.88	24.02		1
	8	7	23.64	23.86	24.00		1
	15	0	23.63	23.87	23.93		1
16QAM	1	0	23.64	23.79	24.08	0-1	1
	1	7	23.59	23.88	24.11		1
	1	14	23.63	23.88	24.12		1
	8	0	22.73	22.99	23.14	0-2	2
	8	4	22.80	23.04	23.17		2
	8	7	22.76	23.05	23.14		2
	15	0	22.69	22.86	22.99		2
64QAM	1	0	22.84	22.89	23.03	0-2	2
	1	7	22.82	22.92	23.11		2
	1	14	22.81	22.99	23.04		2
	8	0	21.77	21.79	21.95	0-3	3
	8	4	21.79	21.94	22.07		3
	8	7	21.74	21.87	22.04		3
	15	0	21.66	22.04	21.97		3
256QAM	1	0	19.37	20.05	19.60	0-5	5
	1	7	19.33	20.01	19.66		5
	1	14	19.42	19.99	19.70		5
	8	0	19.73	19.91	20.00		5
	8	4	19.81	19.99	20.08		5
	8	7	19.75	19.99	20.10		5
	15	0	19.74	19.82	20.00		5

Table 9-27
LTE Band 5 (Cell) Measured P_{Max} for all DSI - 1.4 MHz Bandwidth

LTE Band 5 (Cell) 1.4 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 20407 (824.7 MHz)	Mid Channel 20525 (836.5 MHz)	High Channel 20643 (848.3 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	24.47	24.65	24.95	0	0
	1	2	24.57	24.79	24.98		0
	1	5	24.50	24.68	24.96		0
	3	0	24.53	24.68	24.86		0
	3	2	24.55	24.77	24.91		0
	3	3	24.50	24.69	24.83		0
	6	0	23.60	23.77	23.88	0-1	1
16QAM	1	0	23.60	23.72	23.66	0-1	1
	1	2	23.66	23.81	23.75		1
	1	5	23.60	23.81	23.68		1
	3	0	23.59	23.74	23.89		1
	3	2	23.62	23.82	23.96		1
	3	3	23.55	23.75	23.95		1
	6	0	22.62	22.83	22.91	0-2	2
64QAM	1	0	22.63	22.87	23.15	0-2	2
	1	2	22.74	22.95	23.29		2
	1	5	22.66	22.87	23.11		2
	3	0	22.80	22.97	22.98		2
	3	2	22.88	23.12	23.07		2
	3	3	22.82	23.06	23.00		2
	6	0	21.77	21.98	21.98	0-3	3
256QAM	1	0	19.57	19.67	19.95	0-5	5
	1	2	19.69	19.72	19.96		5
	1	5	19.57	19.73	19.99		5
	3	0	19.71	19.74	19.96		5
	3	2	19.72	19.86	20.02		5
	3	3	19.66	19.80	19.97		5
	6	0	19.67	19.88	19.80		5

9.3.7 LTE Band 66

Table 9-28
LTE Band 66 (AWS) Measured P_{Max} for DSI = 0 (Body-worn, or Phablet with grip sensor inactive), or DSI = 2 (Head) - 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	23.17	23.14	23.35	0	0
	1	50	**23.36**	23.26	23.26		0
	1	99	23.17	23.15	23.22		0
	50	0	22.31	22.34	22.31	0-1	1
	50	25	**22.40**	22.38	22.31		1
	50	50	22.33	22.35	22.27		1
	100	0	22.34	22.32	22.26		1
16QAM	1	0	22.64	22.71	22.96	0-1	1
	1	50	22.85	22.84	22.75		1
	1	99	22.66	22.63	22.71		1
	50	0	21.30	21.34	21.27	0-2	2
	50	25	21.38	21.36	21.32		2
	50	50	21.33	21.34	21.26		2
	100	0	21.37	21.32	21.22		2
64QAM	1	0	21.51	21.65	21.80	0-2	2
	1	50	21.71	21.73	21.73		2
	1	99	21.57	21.66	21.67		2
	50	0	20.38	20.45	20.37	0-3	3
	50	25	20.46	20.48	20.40		3
	50	50	20.34	20.43	20.35		3
	100	0	20.40	20.39	20.33		3
256QAM	1	0	18.06	18.32	18.12	0-5	5
	1	50	18.28	18.53	18.26		5
	1	99	18.09	18.36	18.04		5
	50	0	18.32	18.42	18.28		5
	50	25	18.43	18.46	18.30		5
	50	50	18.30	18.44	18.33		5
	100	0	18.37	18.41	18.26		5

Table 9-29
LTE Band 66 (AWS) Measured P_{Max} for DSI = 0 (Body-worn, or Phablet with grip sensor inactive), or DSI = 2 (Head) - 15 MHz Bandwidth

LTE Band 66 (AWS) 15 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 132047 (1717.5 MHz)	Mid Channel 132322 (1745.0 MHz)	High Channel 132597 (1772.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	23.16	23.09	23.19	0	0
	1	36	23.28	23.21	23.19		0
	1	74	23.12	22.96	23.01		0
	36	0	22.33	22.39	22.32	0-1	1
	36	18	22.39	22.37	22.30		1
	36	37	22.29	22.38	22.25		1
	75	0	22.31	22.28	22.24		1
16QAM	1	0	22.71	22.69	22.62	0-1	1
	1	36	22.86	22.85	22.60		1
	1	74	22.62	22.57	22.42		1
	36	0	21.30	21.43	21.41	0-2	2
	36	18	21.39	21.45	21.41		2
	36	37	21.29	21.41	21.41		2
	75	0	21.32	21.39	21.31		2
64QAM	1	0	21.22	21.67	21.43	0-2	2
	1	36	21.33	21.89	21.51		2
	1	74	21.18	21.65	21.35		2
	36	0	20.37	20.32	20.39	0-3	3
	36	18	20.47	20.34	20.37		3
	36	37	20.36	20.32	20.33		3
	75	0	20.39	20.39	20.27		3
256QAM	1	0	18.09	18.14	18.09	0-5	5
	1	36	18.26	18.31	18.24		5
	1	74	18.20	18.19	18.10		5
	36	0	18.17	18.21	18.12		5
	36	18	18.26	18.25	18.16		5
	36	37	18.19	18.25	18.15		5
	75	0	18.18	18.15	18.12		5

Table 9-30
LTE Band 66 (AWS) Measured P_{Max} for DSI = 0 (Body-worn, or Phablet with grip sensor inactive), or DSI = 2 (Head) - 10 MHz Bandwidth

LTE Band 66 (AWS) 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 132022 (1715.0 MHz)	Mid Channel 132322 (1745.0 MHz)	High Channel 132622 (1775.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	23.15	23.02	22.98	0	0
	1	25	23.30	23.23	23.13		0
	1	49	23.09	23.01	22.99		0
	25	0	22.35	22.33	22.22	0-1	1
	25	12	22.40	22.37	22.28		1
	25	25	22.29	22.32	22.26		1
	50	0	22.31	22.32	22.23		1
16QAM	1	0	22.52	22.78	22.55	0-1	1
	1	25	22.78	22.77	22.80		1
	1	49	22.52	22.74	22.48		1
	25	0	21.40	21.30	21.25	0-2	2
	25	12	21.46	21.37	21.31		2
	25	25	21.34	21.29	21.27		2
	50	0	21.27	21.28	21.24		2
64QAM	1	0	21.58	21.49	21.18	0-2	2
	1	25	21.78	21.81	21.45		2
	1	49	21.59	21.51	21.24		2
	25	0	20.44	20.32	20.34	0-3	3
	25	12	20.49	20.38	20.42		3
	25	25	20.37	20.33	20.35		3
	50	0	20.40	20.32	20.28		3
256QAM	1	0	17.98	18.01	17.94	0-5	5
	1	25	18.35	18.42	18.19		5
	1	49	17.99	18.12	18.06		5
	25	0	18.14	18.21	18.16		5
	25	12	18.23	18.26	18.11		5
	25	25	18.12	18.17	18.10		5
	50	0	18.17	18.18	18.08		5

Table 9-31
LTE Band 66 (AWS) Measured P_{Max} for DSI = 0 (Body-worn, or Phablet with grip sensor inactive), or DSI = 2 (Head) - 5 MHz Bandwidth

LTE Band 66 (AWS) 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 131997 (1712.5 MHz)	Mid Channel 132322 (1745.0 MHz)	High Channel 132647 (1777.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	23.15	23.21	23.21	0	0
	1	12	23.09	23.31	23.13		0
	1	24	23.02	23.24	23.07		0
	12	0	22.37	22.41	22.37	0-1	1
	12	6	22.40	22.47	22.39		1
	12	13	22.32	22.37	22.26		1
	25	0	22.38	22.35	22.31		1
16QAM	1	0	22.64	22.49	22.24	0-1	1
	1	12	22.57	22.55	22.18		1
	1	24	22.48	22.47	22.14		1
	12	0	21.50	21.48	21.47	0-2	2
	12	6	21.55	21.48	21.45		2
	12	13	21.42	21.50	21.30		2
	25	0	21.33	21.44	21.31		2
64QAM	1	0	21.84	21.88	21.66	0-2	2
	1	12	21.78	21.90	21.75		2
	1	24	21.74	21.85	21.55		2
	12	0	20.46	20.41	20.43	0-3	3
	12	6	20.45	20.42	20.41		3
	12	13	20.37	20.37	20.34		3
	25	0	20.27	20.34	20.31		3
256QAM	1	0	18.19	18.36	18.21	0-5	5
	1	12	18.17	18.37	18.26		5
	1	24	18.22	18.32	18.19		5
	12	0	18.25	18.27	18.19		5
	12	6	18.29	18.29	18.17		5
	12	13	18.16	18.26	18.13		5
	25	0	18.22	18.27	18.17		5

Table 9-32
LTE Band 66 (AWS) Measured P_{Max} for DSI = 0 (Body-worn, or Phablet with grip sensor inactive), or DSI = 2 (Head) - 3 MHz Bandwidth

LTE Band 66 (AWS) 3 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 131987 (1711.5 MHz)	Mid Channel 132322 (1745.0 MHz)	High Channel 132657 (1778.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	23.33	23.41	23.18	0	0
	1	7	23.15	23.36	23.11		0
	1	14	23.19	23.35	23.10		0
	8	0	22.44	22.40	22.35	0-1	1
	8	4	22.40	22.38	22.30		1
	8	7	22.34	22.43	22.29		1
	15	0	22.36	22.40	22.34		1
16QAM	1	0	22.96	22.86	22.61	0-1	1
	1	7	22.86	22.87	22.51		1
	1	14	22.86	22.81	22.49		1
	8	0	21.29	21.46	21.45	0-2	2
	8	4	21.30	21.45	21.41		2
	8	7	21.20	21.48	21.33		2
	15	0	21.36	21.41	21.18		2
64QAM	1	0	21.88	21.87	21.51	0-2	2
	1	7	21.83	21.81	21.37		2
	1	14	21.77	21.83	21.37		2
	8	0	20.47	20.35	20.35	0-3	3
	8	4	20.48	20.30	20.34		3
	8	7	20.40	20.27	20.28		3
	15	0	20.43	20.29	20.37		3
256QAM	1	0	18.27	18.39	18.29	0-5	5
	1	7	18.26	18.40	18.22		5
	1	14	18.23	18.30	18.17		5
	8	0	18.25	18.27	18.22		5
	8	4	18.29	18.25	18.20		5
	8	7	18.18	18.29	18.16		5
	15	0	18.22	18.26	18.18		5

Table 9-33
LTE Band 66 (AWS) Measured P_{Max} for DSI = 0 (Body-worn, or Phablet with grip sensor inactive), or DSI = 2 (Head) - 1.4 MHz Bandwidth

LTE Band 66 (AWS) 1.4 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 131979 (1710.7 MHz)	Mid Channel 132322 (1745.0 MHz)	High Channel 132665 (1779.3 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	23.28	23.33	23.20	0	0
	1	2	23.38	23.42	23.23		0
	1	5	23.24	23.34	23.16		0
	3	0	23.16	23.19	23.07		0
	3	2	23.18	23.25	23.05		0
	3	3	23.14	23.18	23.01		0
	6	0	22.35	22.40	22.23	0-1	1
16QAM	1	0	22.59	22.92	22.66	0-1	1
	1	2	22.60	22.95	22.71		1
	1	5	22.55	22.92	22.62		1
	3	0	22.30	22.49	22.40		1
	3	2	22.30	22.48	22.40		1
	3	3	22.26	22.47	22.36		1
	6	0	21.26	21.41	21.14	0-2	2
64QAM	1	0	21.80	21.81	21.64	0-2	2
	1	2	21.83	21.86	21.66		2
	1	5	21.82	21.74	21.60		2
	3	0	21.56	21.43	21.24		2
	3	2	21.59	21.44	21.26		2
	3	3	21.52	21.38	21.26		2
	6	0	20.18	20.49	20.30	0-3	3
256QAM	1	0	18.26	18.30	18.21	0-5	5
	1	2	18.29	18.34	18.27		5
	1	5	18.28	18.25	18.17		5
	3	0	18.32	18.31	18.23		5
	3	2	18.29	18.28	18.27		5
	3	3	18.27	18.31	18.17		5
	6	0	18.19	18.21	18.14		5

Table 9-34
LTE Band 66 (AWS) Measured P_{Limit} for DSI = 1 (Phablet with grip sensor active), or DSI = 3 (Hotspot Mode) and/or DSI = 4 (Earjack Active) - 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	19.06	19.03	19.25	0	0
	1	50	19.34	**19.36**	19.05		0
	1	99	19.01	19.00	19.19		0
	50	0	19.27	19.31	19.24	0-1	0
	50	25	19.33	**19.34**	19.26		0
	50	50	19.22	19.27	19.21		0
	100	0	19.31	19.33	19.16		0
16QAM	1	0	19.23	19.32	19.43	0-1	0
	1	50	19.44	19.38	19.49		0
	1	99	19.31	19.39	19.48		0
	50	0	19.22	19.25	19.27	0-2	0
	50	25	19.40	19.33	19.21		0
	50	50	19.30	19.34	19.18		0
	100	0	19.26	19.25	19.18		0
64QAM	1	0	19.17	19.26	19.45	0-2	0
	1	50	19.23	19.29	19.47		0
	1	99	19.46	19.37	19.39		0
	50	0	19.21	19.32	19.26	0-3	0
	50	25	19.36	19.35	19.30		0
	50	50	19.34	19.41	19.19		0
	100	0	19.31	19.26	19.22		0
256QAM	1	0	18.07	18.26	18.11	0-5	0.5
	1	50	18.35	18.42	18.04		0.5
	1	99	18.08	18.25	18.24		0.5
	50	0	18.17	18.22	18.27		0.5
	50	25	18.22	18.39	18.33		0.5
	50	50	18.33	18.36	18.22		0.5
	100	0	18.33	18.32	18.16		0.5

Table 9-35
LTE Band 66 (AWS) Measured P_{Limit} for DSI = 1 (Phablet with grip sensor active), or DSI = 3 (Hotspot Mode) and/or DSI = 4 (Earjack Active) - 15 MHz Bandwidth

LTE Band 66 (AWS) 15 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 132047 (1717.5 MHz)	Mid Channel 132322 (1745.0 MHz)	High Channel 132597 (1772.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	19.10	19.13	19.22	0	0
	1	36	19.13	19.26	19.25		0
	1	74	19.10	19.09	19.22		0
	36	0	19.21	19.26	19.25	0-1	0
	36	18	19.29	19.27	19.24		0
	36	37	19.19	19.24	19.23		0
	75	0	19.22	19.14	19.24		0
16QAM	1	0	19.47	19.48	19.25	0-1	0
	1	36	19.48	19.50	19.23		0
	1	74	19.36	19.42	19.25		0
	36	0	19.24	19.29	19.28	0-2	0
	36	18	19.31	19.26	19.26		0
	36	37	19.28	19.29	19.24		0
	75	0	19.27	19.24	19.21		0
64QAM	1	0	19.05	19.27	19.50	0-2	0
	1	36	19.11	19.34	19.49		0
	1	74	19.06	19.12	19.45		0
	36	0	19.29	19.39	19.32	0-3	0
	36	18	19.34	19.34	19.26		0
	36	37	19.27	19.34	19.26		0
	75	0	19.30	19.27	19.03		0
256QAM	1	0	18.53	18.61	18.52	0-5	0.5
	1	36	18.56	18.73	18.61		0.5
	1	74	18.49	18.54	18.45		0.5
	36	0	18.33	18.37	18.31		0.5
	36	18	18.37	18.37	18.27		0.5
	36	37	18.31	18.36	18.28		0.5
	75	0	18.33	18.32	18.25		0.5

Table 9-36
LTE Band 66 (AWS) Measured P_{Limit} for DSI = 1 (Phablet with grip sensor active), or DSI = 3 (Hotspot Mode) and/or DSI = 4 (Earjack Active) - 10 MHz Bandwidth

LTE Band 66 (AWS) 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 132022 (1715.0 MHz)	Mid Channel 132322 (1745.0 MHz)	High Channel 132622 (1775.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	18.82	19.16	18.95	0	0
	1	25	19.02	19.25	19.16		0
	1	49	18.92	19.01	18.87		0
	25	0	19.15	19.20	19.15	0-1	0
	25	12	19.23	19.30	19.13		0
	25	25	19.18	19.31	19.08		0
	50	0	19.20	19.31	19.06		0
16QAM	1	0	19.30	19.27	19.28	0-1	0
	1	25	19.32	19.36	19.28		0
	1	49	19.12	19.35	19.40		0
	25	0	19.22	19.22	19.25	0-2	0
	25	12	19.27	19.29	19.21		0
	25	25	19.19	19.17	19.19		0
	50	0	19.11	19.17	19.08		0
64QAM	1	0	19.32	19.23	19.12	0-2	0
	1	25	19.47	19.30	19.31		0
	1	49	19.24	19.28	19.41		0
	25	0	19.19	19.20	19.23	0-3	0
	25	12	19.32	19.24	19.32		0
	25	25	19.12	19.41	19.31		0
	50	0	19.25	19.29	19.19		0
256QAM	1	0	18.31	18.33	18.28	0-5	0.5
	1	25	18.05	18.50	18.25		0.5
	1	49	18.43	18.35	18.22		0.5
	25	0	18.13	18.22	18.15		0.5
	25	12	18.15	18.19	18.25		0.5
	25	25	18.22	18.34	18.27		0.5
	50	0	18.22	18.27	18.17		0.5

Table 9-37
LTE Band 66 (AWS) Measured P_{Limit} for DSI = 1 (Phablet with grip sensor active), or DSI = 3 (Hotspot Mode) and/or DSI = 4 (Earjack Active) - 5 MHz Bandwidth

LTE Band 66 (AWS) 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 131997 (1712.5 MHz)	Mid Channel 132322 (1745.0 MHz)	High Channel 132647 (1777.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	19.27	19.13	19.29	0	0
	1	12	19.22	19.20	19.22		0
	1	24	19.16	19.08	19.18		0
	12	0	19.28	19.32	19.32	0-1	0
	12	6	19.31	19.30	19.28		0
	12	13	19.22	19.29	19.21		0
	25	0	19.21	19.25	19.27		0
16QAM	1	0	19.33	19.46	19.39	0-1	0
	1	12	19.35	19.50	19.38		0
	1	24	19.26	19.48	19.30		0
	12	0	19.31	19.36	19.27	0-2	0
	12	6	19.31	19.31	19.34		0
	12	13	19.18	19.27	19.25		0
	25	0	19.24	19.33	19.26		0
64QAM	1	0	19.50	19.36	19.49	0-2	0
	1	12	19.49	19.43	19.50		0
	1	24	19.48	19.33	19.47		0
	12	0	19.40	19.43	19.41	0-3	0
	12	6	19.39	19.44	19.41		0
	12	13	19.32	19.33	19.32		0
	25	0	19.32	19.27	19.35		0
256QAM	1	0	18.18	18.00	18.23	0-5	0.5
	1	12	18.18	18.03	18.18		0.5
	1	24	18.11	18.01	18.17		0.5
	12	0	18.46	18.30	18.43		0.5
	12	6	18.40	18.36	18.42		0.5
	12	13	18.35	18.30	18.35		0.5
	25	0	18.32	18.31	18.37		0.5

Table 9-38
LTE Band 66 (AWS) Measured P_{Limit} for DSI = 1 (Phablet with grip sensor active), or DSI = 3 (Hotspot Mode) and/or DSI = 4 (Earjack Active) - 3 MHz Bandwidth

LTE Band 66 (AWS) 3 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 131987 (1711.5 MHz)	Mid Channel 132322 (1745.0 MHz)	High Channel 132657 (1778.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	19.22	19.28	19.31	0	0
	1	7	19.10	19.23	19.30		0
	1	14	19.11	19.19	19.31		0
	8	0	19.28	19.35	19.27	0-1	0
	8	4	19.25	19.31	19.28		0
	8	7	19.18	19.35	19.29		0
	15	0	19.23	19.30	19.27		0
16QAM	1	0	19.44	19.50	19.26	0-1	0
	1	7	19.33	19.49	19.28		0
	1	14	19.32	19.47	19.28		0
	8	0	19.30	19.49	19.31	0-2	0
	8	4	19.30	19.47	19.29		0
	8	7	19.22	19.44	19.28		0
	15	0	19.17	19.34	19.30		0
64QAM	1	0	19.17	19.35	19.32	0-2	0
	1	7	19.13	19.35	19.29		0
	1	14	19.14	19.33	19.31		0
	8	0	19.35	19.38	19.28	0-3	0
	8	4	19.39	19.39	19.28		0
	8	7	19.29	19.43	19.30		0
	15	0	19.38	19.29	19.29		0
256QAM	1	0	18.47	18.66	18.44	0-5	0.5
	1	7	18.40	18.68	18.37		0.5
	1	14	18.34	18.61	18.36		0.5
	8	0	18.28	18.44	18.36		0.5
	8	4	18.23	18.40	18.34		0.5
	8	7	18.17	18.42	18.28		0.5
	15	0	18.33	18.38	18.35		0.5

Table 9-39
LTE Band 66 (AWS) Measured P_{Limit} for DSI = 1 (Phablet with grip sensor active), or DSI = 3 (Hotspot Mode) and/or DSI = 4 (Earjack Active) - 1.4 MHz Bandwidth

LTE Band 66 (AWS) 1.4 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 131979 (1710.7 MHz)	Mid Channel 132322 (1745.0 MHz)	High Channel 132665 (1779.3 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	19.17	19.21	19.05	0	0
	1	2	19.21	19.26	19.10		0
	1	5	19.08	19.13	18.99		0
	3	0	19.13	19.18	19.11		0
	3	2	19.16	19.22	19.13		0
	3	3	19.13	19.17	19.05		0
	6	0	19.19	19.22	19.18	0-1	0
16QAM	1	0	19.41	19.45	19.50	0-1	0
	1	2	19.45	19.50	19.49		0
	1	5	19.38	19.43	19.46		0
	3	0	19.36	19.42	19.23		0
	3	2	19.43	19.47	19.21		0
	3	3	19.36	19.42	19.20		0
	6	0	19.19	19.24	19.24	0-2	0
64QAM	1	0	19.16	19.22	19.40	0-2	0
	1	2	19.25	19.22	19.44		0
	1	5	19.08	19.12	19.44		0
	3	0	19.34	19.38	19.30		0
	3	2	19.37	19.39	19.34		0
	3	3	19.31	19.35	19.31		0
	6	0	19.24	19.32	19.26	0-3	0
256QAM	1	0	18.14	18.21	18.11	0-5	0.5
	1	2	18.16	18.21	18.17		0.5
	1	5	18.12	18.16	18.03		0.5
	3	0	18.33	18.37	18.30		0.5
	3	2	18.34	18.42	18.33		0.5
	3	3	18.30	18.35	18.25		0.5
	6	0	18.26	18.30	18.26		0.5

9.3.8 LTE Band 25

Table 9-40
LTE Band 25 (PCS) Measured P_{Max} for DSI = 0 (Body-worn, or Phablet with grip sensor inactive), or DSI = 2 (Head) - 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	23.27	23.16	23.15	0	0
	1	50	**23.33**	23.17	23.25		0
	1	99	23.24	23.11	23.32		0
	50	0	22.43	22.14	22.29	0-1	1
	50	25	**22.44**	22.14	22.32		1
	50	50	22.33	22.11	22.37		1
	100	0	22.28	22.10	22.30		1
16QAM	1	0	22.72	22.42	22.61	0-1	1
	1	50	22.60	22.45	22.50		1
	1	99	22.73	22.58	22.64		1
	50	0	21.45	21.07	21.25	0-2	2
	50	25	21.22	21.19	21.37		2
	50	50	21.30	21.14	21.33		2
	100	0	21.29	21.12	21.14		2
64QAM	1	0	21.65	21.45	21.50	0-2	2
	1	50	21.55	21.28	21.56		2
	1	99	21.53	21.52	21.53		2
	50	0	20.40	20.13	20.32	0-3	3
	50	25	20.47	20.11	20.33		3
	50	50	20.32	20.20	20.26		3
	100	0	20.25	20.05	20.27		3
256QAM	1	0	18.35	18.25	18.55	0-5	5
	1	50	18.73	18.46	18.67		5
	1	99	18.36	18.30	18.70		5
	50	0	18.24	17.92	18.17		5
	50	25	18.36	18.00	18.29		5
	50	50	18.28	18.06	18.39		5
	100	0	18.22	18.09	18.25		5

Table 9-41
LTE Band 25 (PCS) Measured P_{Max} for DSI = 0 (Body-worn, or Phablet with grip sensor inactive), or DSI = 2 (Head) - 15 MHz Bandwidth

LTE Band 25 (PCS) 15 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 26115 (1857.5 MHz)	Mid Channel 26365 (1882.5 MHz)	High Channel 26615 (1907.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	23.31	23.07	23.21	0	0
	1	36	23.55	23.17	23.39		0
	1	74	23.31	23.18	23.34		0
	36	0	22.46	22.06	22.38	0-1	1
	36	18	22.50	22.19	22.49		1
	36	37	22.42	22.22	22.55		1
	75	0	22.39	22.16	22.40		1
16QAM	1	0	22.14	22.19	22.57	0-1	1
	1	36	22.39	22.21	22.67		1
	1	74	22.12	22.26	22.66		1
	36	0	21.51	21.06	21.43	0-2	2
	36	18	21.55	21.20	21.60		2
	36	37	21.47	21.24	21.64		2
	75	0	21.38	21.20	21.44		2
64QAM	1	0	21.49	21.15	21.42	0-2	2
	1	36	21.75	21.20	21.58		2
	1	74	21.46	21.29	21.49		2
	36	0	20.46	20.13	20.44	0-3	3
	36	18	20.47	20.26	20.58		3
	36	37	20.43	20.31	20.63		3
	75	0	20.41	20.24	20.39		3
256QAM	1	0	18.44	17.96	18.60	0-5	5
	1	36	18.72	18.23	19.08		5
	1	74	18.47	18.23	18.88		5
	36	0	18.49	18.08	18.37		5
	36	18	18.52	18.19	18.53		5
	36	37	18.47	18.23	18.59		5
	75	0	18.46	18.20	18.46		5

Table 9-42
LTE Band 25 (PCS) Measured P_{Max} for DSI = 0 (Body-worn, or Phablet with grip sensor inactive), or DSI = 2 (Head) - 10 MHz Bandwidth

LTE Band 25 (PCS) 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 26090 (1855.0 MHz)	Mid Channel 26365 (1882.5 MHz)	High Channel 26640 (1910.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	23.09	23.14	23.33	0	0
	1	25	23.29	23.15	23.29		0
	1	49	23.00	23.06	23.37		0
	25	0	22.50	22.03	22.32	0-1	1
	25	12	22.48	22.12	22.43		1
	25	25	22.40	22.13	22.44		1
	50	0	22.41	22.14	22.40		1
16QAM	1	0	22.28	21.92	22.43	0-1	1
	1	25	22.49	22.12	22.48		1
	1	49	22.20	21.97	22.50		1
	25	0	21.55	21.09	21.39	0-2	2
	25	12	21.59	21.21	21.48		2
	25	25	21.50	21.20	21.49		2
	50	0	21.40	21.11	21.38		2
64QAM	1	0	21.43	20.84	21.38	0-2	2
	1	25	21.67	21.17	21.50		2
	1	49	21.31	20.94	21.50		2
	25	0	20.59	20.14	20.38	0-3	3
	25	12	20.58	20.21	20.58		3
	25	25	20.52	20.27	20.52		3
	50	0	20.46	20.16	20.38		3
256QAM	1	0	18.08	17.97	18.70	0-5	5
	1	25	18.21	18.18	18.97		5
	1	49	17.99	18.05	18.77		5
	25	0	18.57	18.07	18.44		5
	25	12	18.55	18.20	18.56		5
	25	25	18.54	18.21	18.59		5
	50	0	18.46	18.18	18.46		5

Table 9-43
LTE Band 25 (PCS) Measured P_{Max} for DSI = 0 (Body-worn, or Phablet with grip sensor inactive), or DSI = 2 (Head) - 5 MHz Bandwidth

LTE Band 25 (PCS) 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 26065 (1852.5 MHz)	Mid Channel 26365 (1882.5 MHz)	High Channel 26665 (1912.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	23.46	23.04	23.26	0	0
	1	12	23.43	23.19	23.29		0
	1	24	23.51	23.29	23.28		0
	12	0	22.57	22.13	22.48	0-1	1
	12	6	22.60	22.16	22.51		1
	12	13	22.55	22.21	22.50		1
	25	0	22.54	22.10	22.49		1
16QAM	1	0	22.91	22.21	22.48	0-1	1
	1	12	22.96	22.31	22.44		1
	1	24	22.98	22.35	22.44		1
	12	0	21.44	21.19	21.49	0-2	2
	12	6	21.53	21.26	21.55		2
	12	13	21.51	21.26	21.56		2
	25	0	21.59	21.10	21.51		2
64QAM	1	0	21.68	21.04	21.66	0-2	2
	1	12	21.81	21.20	21.68		2
	1	24	21.81	21.18	21.71		2
	12	0	20.59	20.18	20.53	0-3	3
	12	6	20.63	20.23	20.60		3
	12	13	20.66	20.29	20.57		3
	25	0	20.56	20.21	20.49		3
256QAM	1	0	18.56	18.22	18.48	0-5	5
	1	12	18.56	18.33	18.51		5
	1	24	18.67	18.39	18.48		5
	12	0	18.56	18.15	18.47		5
	12	6	18.69	18.20	18.55		5
	12	13	18.66	18.28	18.52		5
	25	0	18.57	18.13	18.53		5

Table 9-44
LTE Band 25 (PCS) Measured P_{Max} for DSI = 0 (Body-worn, or Phablet with grip sensor inactive), or DSI = 2 (Head) - 3 MHz Bandwidth

LTE Band 25 (PCS) 3 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 26055 (1851.5 MHz)	Mid Channel 26365 (1882.5 MHz)	High Channel 26675 (1913.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	23.37	23.15	23.33	0	0
	1	7	23.34	23.02	23.33		0
	1	14	23.37	23.11	23.38		0
	8	0	22.48	22.04	22.47	0-1	1
	8	4	22.56	22.09	22.54		1
	8	7	22.54	22.15	22.53		1
	15	0	22.51	22.11	22.55		1
16QAM	1	0	22.50	22.12	22.60	0-1	1
	1	7	22.43	22.18	22.57		1
	1	14	22.58	22.23	22.66		1
	8	0	21.60	21.22	21.66	0-2	2
	8	4	21.64	21.26	21.70		2
	8	7	21.66	21.32	21.69		2
	15	0	21.56	21.15	21.59		2
64QAM	1	0	21.72	21.12	21.49	0-2	2
	1	7	21.69	21.23	21.58		2
	1	14	21.69	21.32	21.57		2
	8	0	20.61	20.07	20.50	0-3	3
	8	4	20.66	20.13	20.51		3
	8	7	20.65	20.16	20.52		3
	15	0	20.51	20.28	20.54		3
256QAM	1	0	18.45	18.44	18.75	0-5	5
	1	7	18.50	18.55	18.72		5
	1	14	18.56	18.53	18.76		5
	8	0	18.56	18.00	18.54		5
	8	4	18.60	18.10	18.65		5
	8	7	18.60	18.12	18.62		5
	15	0	18.62	18.19	18.53		5

Table 9-45
LTE Band 25 (PCS) Measured P_{Max} for DSI = 0 (Body-worn, or Phablet with grip sensor inactive), or DSI = 2 (Head) - 1.4 MHz Bandwidth

LTE Band 25 (PCS) 1.4 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 26047 (1850.7 MHz)	Mid Channel 26365 (1882.5 MHz)	High Channel 26683 (1914.3 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	23.27	23.00	23.25	0	0
	1	2	23.39	23.11	23.31		0
	1	5	23.31	22.98	23.26		0
	3	0	23.33	22.91	23.30		0
	3	2	23.39	23.01	23.35		0
	3	3	23.40	23.04	23.35		0
	6	0	22.39	21.99	22.36	0-1	1
16QAM	1	0	22.38	22.04	22.39	0-1	1
	1	2	22.46	22.07	22.45		1
	1	5	22.43	22.12	22.42		1
	3	0	22.42	21.99	22.39		1
	3	2	22.51	22.08	22.45		1
	3	3	22.43	22.03	22.37		1
	6	0	21.51	21.09	21.47	0-2	2
64QAM	1	0	21.45	21.07	21.49	0-2	2
	1	2	21.54	21.16	21.55		2
	1	5	21.48	21.14	21.45		2
	3	0	21.67	21.26	21.63		2
	3	2	21.72	21.32	21.69		2
	3	3	21.67	21.34	21.63		2
	6	0	20.58	20.19	20.60	0-3	3
256QAM	1	0	18.17	18.07	18.36	0-5	5
	1	2	18.20	18.11	18.46		5
	1	5	18.16	18.12	18.38		5
	3	0	18.45	18.10	18.45		5
	3	2	18.49	18.20	18.51		5
	3	3	18.43	18.15	18.43		5
	6	0	18.51	17.97	18.45		5

Table 9-46
LTE Band 25 (PCS) Measured P_{Limit} for DSI = 1 (Phablet with grip sensor active), or DSI = 3 (Hotspot Mode) and/or DSI = 4 (Earjack Active) - 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	19.31	19.09	19.14	0	0
	1	50	**19.50**	19.01	19.20		0
	1	99	19.18	19.05	19.33		0
	50	0	**19.48**	19.03	19.34	0-1	0
	50	25	19.32	19.18	19.33		0
	50	50	19.29	19.12	19.46		0
	100	0	19.27	19.09	19.09		0
16QAM	1	0	19.46	19.44	19.42	0-1	0
	1	50	19.40	19.40	19.31		0
	1	99	19.43	19.35	19.39		0
	50	0	19.33	19.05	19.31	0-2	0
	50	25	19.31	19.06	19.42		0
	50	50	19.27	19.09	19.40		0
	100	0	19.30	19.17	19.31		0
64QAM	1	0	19.50	19.36	19.48	0-2	0
	1	50	19.41	19.31	19.31		0
	1	99	19.43	19.41	19.48		0
	50	0	19.39	19.05	19.35	0-3	0
	50	25	19.32	19.28	19.40		0
	50	50	19.28	19.18	19.39		0
	100	0	19.30	19.13	19.27		0
256QAM	1	0	18.26	18.00	18.11	0-5	0.5
	1	50	18.55	18.36	18.49		0.5
	1	99	18.27	18.15	18.20		0.5
	50	0	18.32	17.95	18.20		0.5
	50	25	18.37	18.10	18.35		0.5
	50	50	18.27	18.13	18.38		0.5
	100	0	18.23	18.13	18.27		0.5

Table 9-47
LTE Band 25 (PCS) Measured P_{Limit} for DSI = 1 (Phablet with grip sensor active), or DSI = 3 (Hotspot Mode) and/or DSI = 4 (Earjack Active) - 15 MHz Bandwidth

LTE Band 25 (PCS) 15 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 26115 (1857.5 MHz)	Mid Channel 26365 (1882.5 MHz)	High Channel 26615 (1907.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	19.07	19.04	18.96	0	0
	1	36	19.33	19.03	19.16		0
	1	74	19.02	19.03	19.06		0
	36	0	19.34	18.87	19.11	0-1	0
	36	18	19.30	18.97	19.23		0
	36	37	19.24	19.00	19.30		0
	75	0	19.23	18.97	19.13		0
16QAM	1	0	19.45	19.49	19.34	0-1	0
	1	36	19.46	19.50	19.32		0
	1	74	19.49	19.47	19.31		0
	36	0	19.47	18.96	19.33	0-2	0
	36	18	19.46	19.09	19.34		0
	36	37	19.47	19.13	19.33		0
	75	0	19.45	19.01	19.33		0
64QAM	1	0	19.46	19.07	19.31	0-2	0
	1	36	19.46	18.96	19.32		0
	1	74	19.47	19.15	19.32		0
	36	0	19.47	19.02	19.33	0-3	0
	36	18	19.48	19.12	19.34		0
	36	37	19.48	19.19	19.33		0
	75	0	19.46	19.16	19.32		0
256QAM	1	0	18.11	18.37	18.35	0-5	0.5
	1	36	18.29	18.57	18.73		0.5
	1	74	18.13	18.64	18.67		0.5
	36	0	18.38	18.01	18.28		0.5
	36	18	18.39	18.08	18.36		0.5
	36	37	18.36	18.10	18.43		0.5
	75	0	18.32	18.14	18.33		0.5

Table 9-48
LTE Band 25 (PCS) Measured P_{Limit} for DSI = 1 (Phablet with grip sensor active), or DSI = 3 (Hotspot Mode) and/or DSI = 4 (Earjack Active) - 10 MHz Bandwidth

LTE Band 25 (PCS) 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 26090 (1855.0 MHz)	Mid Channel 26365 (1882.5 MHz)	High Channel 26640 (1910.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	19.03	18.51	19.03	0	0
	1	25	19.12	18.71	19.07		0
	1	49	18.90	18.54	19.06		0
	25	0	19.28	18.81	19.05	0-1	0
	25	12	19.27	18.91	19.16		0
	25	25	19.21	18.93	19.18		0
	50	0	19.21	18.95	19.13		0
16QAM	1	0	19.23	18.93	19.49	0-1	0
	1	25	19.46	19.12	19.50		0
	1	49	19.25	18.98	19.48		0
	25	0	19.08	18.96	19.03	0-2	0
	25	12	19.15	19.09	19.12		0
	25	25	19.07	19.08	19.10		0
	50	0	19.00	19.02	19.06		0
64QAM	1	0	19.05	18.69	19.25	0-2	0
	1	25	19.31	18.95	19.31		0
	1	49	18.88	18.76	19.42		0
	25	0	19.19	19.00	19.02	0-3	0
	25	12	19.21	19.09	19.11		0
	25	25	19.13	19.15	19.18		0
	50	0	19.17	19.08	19.10		0
256QAM	1	0	18.07	17.69	18.28	0-5	0.5
	1	25	18.20	17.95	18.25		0.5
	1	49	18.01	17.76	18.28		0.5
	25	0	18.13	17.92	18.26		0.5
	25	12	18.19	18.07	18.32		0.5
	25	25	18.05	18.11	18.37		0.5
	50	0	18.11	18.01	18.28		0.5

Table 9-49
LTE Band 25 (PCS) Measured P_{Limit} for DSI = 1 (Phablet with grip sensor active), or DSI = 3 (Hotspot Mode) and/or DSI = 4 (Earjack Active)- 5 MHz Bandwidth

LTE Band 25 (PCS) 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 26065 (1852.5 MHz)	Mid Channel 26365 (1882.5 MHz)	High Channel 26665 (1912.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	19.39	18.66	19.40	0	0
	1	12	19.40	18.81	19.38		0
	1	24	19.44	18.86	19.39		0
	12	0	19.43	18.82	19.41	0-1	0
	12	6	19.42	18.91	19.37		0
	12	13	19.44	18.97	19.39		0
	25	0	19.43	18.92	19.37		0
16QAM	1	0	19.45	19.05	19.40	0-1	0
	1	12	19.47	19.13	19.38		0
	1	24	19.46	19.19	19.39		0
	12	0	19.44	18.93	19.38	0-2	0
	12	6	19.46	19.00	19.40		0
	12	13	19.45	19.05	19.39		0
	25	0	19.44	18.88	19.38		0
64QAM	1	0	19.47	18.88	19.37	0-2	0
	1	12	19.46	18.99	19.39		0
	1	24	19.47	19.07	19.39		0
	12	0	19.50	18.96	19.38	0-3	0
	12	6	19.49	19.03	19.36		0
	12	13	19.46	19.09	19.37		0
	25	0	19.48	18.92	19.38		0
256QAM	1	0	18.39	17.78	18.60	0-5	0.5
	1	12	18.40	17.94	18.62		0.5
	1	24	18.42	17.93	18.61		0.5
	12	0	18.48	17.90	18.38		0.5
	12	6	18.51	17.98	18.41		0.5
	12	13	18.49	18.07	18.39		0.5
	25	0	18.49	17.96	18.32		0.5

Table 9-50
LTE Band 25 (PCS) Measured P_{Limit} for DSI = 1 (Phablet with grip sensor active), or DSI = 3 (Hotspot Mode) and/or DSI = 4 (Earjack Active) - 3 MHz Bandwidth

LTE Band 25 (PCS) 3 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 26055 (1851.5 MHz)	Mid Channel 26365 (1882.5 MHz)	High Channel 26675 (1913.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	19.49	18.83	19.36	0	0
	1	7	19.48	18.91	19.39		0
	1	14	19.49	19.01	19.38		0
	8	0	19.47	18.92	19.37	0-1	0
	8	4	19.49	18.99	19.35		0
	8	7	19.48	19.02	19.37		0
	15	0	19.49	18.99	19.36		0
16QAM	1	0	19.47	19.41	19.40	0-1	0
	1	7	19.46	19.44	19.39		0
	1	14	19.43	19.49	19.37		0
	8	0	19.42	19.08	19.40	0-2	0
	8	4	19.43	19.17	19.36		0
	8	7	19.44	19.23	19.37		0
	15	0	19.43	19.04	19.39		0
64QAM	1	0	19.43	18.92	19.37	0-2	0
	1	7	19.42	19.01	19.38		0
	1	14	19.44	19.09	19.37		0
	8	0	19.42	19.01	19.39	0-3	0
	8	4	19.42	19.11	19.41		0
	8	7	19.45	19.12	19.38		0
	15	0	19.45	19.00	19.38		0
256QAM	1	0	19.00	18.49	18.55	0-5	0.5
	1	7	18.96	18.56	18.57		0.5
	1	14	18.98	18.60	18.67		0.5
	8	0	18.55	18.03	18.36		0.5
	8	4	18.59	18.13	18.45		0.5
	8	7	18.57	18.15	18.43		0.5
	15	0	18.61	18.14	18.46		0.5

Table 9-51
LTE Band 25 (PCS) Measured P_{Limit} for DSI = 1 (Phablet with grip sensor active), or DSI = 3 (Hotspot Mode) and/or DSI = 4 (Earjack Active) - 1.4 MHz Bandwidth

LTE Band 25 (PCS) 1.4 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 26047 (1850.7 MHz)	Mid Channel 26365 (1882.5 MHz)	High Channel 26683 (1914.3 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	19.24	18.96	19.08	0	0
	1	2	19.31	19.04	19.19		0
	1	5	19.27	19.03	19.11		0
	3	0	19.24	18.87	19.13		0
	3	2	19.31	18.93	19.20		0
	3	3	19.28	18.95	19.14		0
	6	0	19.33	19.19	19.25	0-1	0
16QAM	1	0	19.39	19.28	19.49	0-1	0
	1	2	19.49	19.26	19.48		0
	1	5	19.45	19.31	19.47		0
	3	0	19.37	19.16	19.25		0
	3	2	19.47	19.25	19.30		0
	3	3	19.41	19.26	19.26		0
	6	0	19.34	19.10	19.31	0-2	0
64QAM	1	0	19.21	19.37	19.45	0-2	0
	1	2	19.37	19.45	19.49		0
	1	5	19.26	19.44	19.47		0
	3	0	19.42	19.13	19.38		0
	3	2	19.49	19.19	19.42		0
	3	3	19.46	19.20	19.37		0
	6	0	19.42	18.92	19.31	0-3	0
256QAM	1	0	18.25	18.05	18.13	0-5	0.5
	1	2	18.31	18.16	18.21		0.5
	1	5	18.27	18.13	18.16		0.5
	3	0	18.44	18.03	18.33		0.5
	3	2	18.49	18.06	18.40		0.5
	3	3	18.44	18.04	18.36		0.5
	6	0	18.40	18.01	18.34		0.5

9.3.9 LTE Band 30

Table 9-52
LTE Band 30 Measured P_{Max} DSI = 0 (Body-worn, or Phablet with grip sensor inactive), or DSI = 2 (Head) - 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	**23.13**	0	0
	1	25	22.99		0
	1	49	22.93		0
	25	0	22.00	0-1	1
	25	12	22.01		1
	25	25	**22.04**		1
	50	0	21.93		1
16QAM	1	0	22.56	0-1	1
	1	25	22.38		1
	1	49	22.64		1
	25	0	20.99	0-2	2
	25	12	21.06		2
	25	25	20.99		2
	50	0	20.98		2
64QAM	1	0	21.24	0-2	2
	1	25	21.25		2
	1	49	21.21		2
	25	0	19.94	0-3	3
	25	12	20.06		3
	25	25	20.08		3
	50	0	20.00		3
256QAM	1	0	17.98	0-5	5
	1	25	18.16		5
	1	49	17.89		5
	25	0	18.01		5
	25	12	18.00		5
	25	25	18.02		5
	50	0	17.99		5

Table 9-53
LTE Band 30 Measured P_{Max} for DSI = 0 (Body-worn, or Phablet with grip sensor inactive), or DSI = 2 (Head) - 5 MHz Bandwidth

LTE Band 30 5 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	22.95	0	0
	1	12	23.14		0
	1	24	22.59		0
	12	0	22.21	0-1	1
	12	6	22.27		1
	12	13	22.26		1
	25	0	22.21		1
16QAM	1	0	22.18	0-1	1
	1	12	22.28		1
	1	24	21.81		1
	12	0	21.22	0-2	2
	12	6	21.26		2
	12	13	21.28		2
	25	0	21.16		2
64QAM	1	0	21.34	0-2	2
	1	12	21.50		2
	1	24	21.59		2
	12	0	20.18	0-3	3
	12	6	20.23		3
	12	13	20.32		3
	25	0	20.18		3
256QAM	1	0	18.15	0-5	5
	1	12	18.27		5
	1	24	18.16		5
	12	0	18.14		5
	12	6	18.23		5
	12	13	18.21		5
	25	0	18.17		5

Note: LTE Band 30 at 5 MHz bandwidth does not support three non-overlapping channels. Per KDB Publication 941225 D05v02, 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.

Table 9-54
LTE Band 30 Measured P_{Limit} for DSI = 3 (Hotspot Mode) - 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	**19.21**	0	0
	1	25	19.12		0
	1	49	18.99		0
	25	0	18.99	0-1	0
	25	12	19.07		0
	25	25	**19.15**		0
	50	0	19.14		0
16QAM	1	0	19.11	0-1	0
	1	25	19.24		0
	1	49	19.30		0
	25	0	19.18	0-2	0
	25	12	19.16		0
	25	25	19.23		0
	50	0	19.09		0
64QAM	1	0	19.33	0-2	0
	1	25	19.25		0
	1	49	19.39		0
	25	0	19.17	0-3	0
	25	12	19.26		0
	25	25	19.23		0
	50	0	19.08		0
256QAM	1	0	18.25	0-5	1
	1	25	18.33		1
	1	49	18.00		1
	25	0	18.01		1
	25	12	18.10		1
	25	25	18.17		1
	50	0	18.07		1

Table 9-55
LTE Band 30 Measured P_{Limit} for DSI = 3 (Hotspot Mode) - 5 MHz Bandwidth

LTE Band 30 5 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	19.14	0	0
	1	12	19.22		0
	1	24	19.14		0
	12	0	19.29	0-1	0
	12	6	19.33		0
	12	13	19.35		0
	25	0	19.30		0
16QAM	1	0	19.48	0-1	0
	1	12	19.57		0
	1	24	19.47		0
	12	0	19.39	0-2	0
	12	6	19.45		0
	12	13	19.42		0
	25	0	19.35		0
64QAM	1	0	19.21	0-2	0
	1	12	19.34		0
	1	24	19.28		0
	12	0	19.40	0-3	0
	12	6	19.43		0
	12	13	19.49		0
	25	0	19.34		0
256QAM	1	0	17.82	0-5	1
	1	12	17.95		1
	1	24	17.88		1
	12	0	18.25		1
	12	6	18.27		1
	12	13	18.31		1
	25	0	18.27		1

Note: LTE Band 30 at 5 MHz bandwidth does not support three non-overlapping channels. Per KDB Publication 941225 D05v02, 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.

Table 9-56
LTE Band 30 Measured P_{Limit} for DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack Active) - 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	**20.18**	0	0
	1	25	20.09		0
	1	49	20.09		0
	25	0	**20.16**	0-1	0
	25	12	20.10		0
	25	25	20.11		0
	50	0	20.14		0
16QAM	1	0	20.40	0-1	0
	1	25	20.38		0
	1	49	20.36		0
	25	0	20.06	0-2	0
	25	12	20.16		0
	25	25	20.14		0
	50	0	20.09		0
64QAM	1	0	20.25	0-2	0
	1	25	20.24		0
	1	49	20.39		0
	25	0	20.13	0-3	0
	25	12	20.23		0
	25	25	20.20		0
	50	0	20.15		0
256QAM	1	0	18.10	0-5	2
	1	25	17.93		2
	1	49	18.24		2
	25	0	18.01		2
	25	12	18.09		2
	25	25	18.14		2
	50	0	18.23		2

Table 9-57
LTE Band 30 Measured P_{Limit} for DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack Active) - 5 MHz Bandwidth

LTE Band 30 5 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	20.01	0	0
	1	12	20.11		0
	1	24	20.06		0
	12	0	20.21	0-1	0
	12	6	20.24		0
	12	13	20.27		0
	25	0	20.22		0
16QAM	1	0	20.45	0-1	0
	1	12	20.53		0
	1	24	20.38		0
	12	0	20.22	0-2	0
	12	6	20.24		0
	12	13	20.24		0
	25	0	20.28		0
64QAM	1	0	20.21	0-2	0
	1	12	20.32		0
	1	24	20.29		0
	12	0	20.30	0-3	0
	12	6	20.36		0
	12	13	20.34		0
	25	0	20.22		0
256QAM	1	0	17.83	0-5	2
	1	12	17.93		2
	1	24	17.84		2
	12	0	18.22		2
	12	6	18.26		2
	12	13	18.28		2
	25	0	18.21		2

Note: LTE Band 30 at 5 MHz bandwidth does not support three non-overlapping channels. Per KDB Publication 941225 D05v02, 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.

9.3.10 LTE Band 7

Table 9-58
LTE Band 7 Measured P_{Max} for DSI = 0 (Body-worn, or Phablet with grip sensor inactive), or DSI = 2 (Head) - 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	23.08	23.06	**23.27**	0	0
	1	50	23.08	23.23	23.21		0
	1	99	23.13	23.24	23.15		0
	50	0	22.03	22.21	22.37	0-1	1
	50	25	22.22	22.34	**22.38**		1
	50	50	22.15	22.26	22.12		1
	100	0	22.15	22.32	22.30		1
16QAM	1	0	22.34	22.44	22.63	0-1	1
	1	50	22.39	22.53	22.50		1
	1	99	22.45	22.50	22.33		1
	50	0	20.98	21.23	21.37	0-2	2
	50	25	21.19	21.32	21.36		2
	50	50	21.15	21.11	21.07		2
	100	0	21.15	21.26	21.26		2
64QAM	1	0	21.36	21.41	21.64	0-2	2
	1	50	21.34	21.49	21.55		2
	1	99	21.45	21.40	21.35		2
	50	0	20.08	20.21	20.41	0-3	3
	50	25	20.23	20.36	20.38		3
	50	50	20.18	20.29	20.17		3
	100	0	20.15	20.30	20.27		3
256QAM	1	0	17.95	18.10	18.43	0-5	5
	1	50	18.30	18.38	18.46		5
	1	99	18.01	18.13	17.95		5
	50	0	18.04	18.21	18.40		5
	50	25	18.23	18.33	18.37		5
	50	50	18.18	18.24	18.09		5
	100	0	18.12	18.25	18.31		5

Table 9-59
LTE Band 7 Measured P_{Max} for DSI = 0 (Body-worn, or Phablet with grip sensor inactive), or DSI = 2 (Head) - 15 MHz Bandwidth

LTE Band 7 15 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 20825 (2507.5 MHz)	Mid Channel 21100 (2535.0 MHz)	High Channel 21375 (2562.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	23.13	23.15	23.25	0	0
	1	36	23.14	23.22	23.24		0
	1	74	23.13	23.17	23.15		0
	36	0	22.02	22.27	22.39	0-1	1
	36	18	22.25	22.39	22.44		1
	36	37	22.21	22.32	22.20		1
	75	0	22.15	22.30	22.29		1
16QAM	1	0	22.01	22.35	22.65	0-1	1
	1	36	21.99	22.43	22.52		1
	1	74	21.99	22.32	22.35		1
	36	0	21.13	21.25	21.46	0-2	2
	36	18	21.28	21.39	21.49		2
	36	37	21.28	21.33	21.29		2
	75	0	21.21	21.33	21.32		2
64QAM	1	0	21.22	21.22	21.30	0-2	2
	1	36	21.33	21.36	21.23		2
	1	74	20.87	21.31	21.16		2
	36	0	20.10	20.32	20.41	0-3	3
	36	18	20.26	20.45	20.45		3
	36	37	20.20	20.40	20.27		3
	75	0	20.26	20.37	20.25		3
256QAM	1	0	18.09	18.08	18.25	0-5	5
	1	36	18.35	18.36	18.11		5
	1	74	18.28	18.17	18.30		5
	36	0	18.14	18.19	18.14		5
	36	18	18.31	18.32	18.08		5
	36	37	18.26	18.25	18.20		5
	75	0	18.23	18.30	18.35		5

Table 9-60
LTE Band 7 Measured P_{Max} for DSI = 0 (Body-worn, or Phablet with grip sensor inactive), or DSI = 2 (Head) - 10 MHz Bandwidth

LTE Band 7 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 20800 (2505.0 MHz)	Mid Channel 21100 (2535.0 MHz)	High Channel 21400 (2565.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	23.04	23.15	23.24	0	0
	1	25	22.95	23.23	23.13		0
	1	49	23.02	23.29	23.14		0
	25	0	22.16	22.26	22.37	0-1	1
	25	12	22.23	22.34	22.36		1
	25	25	22.19	22.31	22.30		1
	50	0	22.17	22.27	22.29		1
16QAM	1	0	22.31	22.45	22.36	0-1	1
	1	25	22.27	22.42	22.34		1
	1	49	22.25	22.44	22.29		1
	25	0	21.35	21.32	21.38	0-2	2
	25	12	21.35	21.42	21.35		2
	25	25	21.36	21.40	21.32		2
	50	0	21.16	21.27	21.25		2
64QAM	1	0	21.45	21.26	21.32	0-2	2
	1	25	21.44	21.36	21.30		2
	1	49	21.34	21.34	21.28		2
	25	0	20.35	20.35	20.36	0-3	3
	25	12	20.34	20.44	20.36		3
	25	25	20.32	20.45	20.32		3
	50	0	20.21	20.34	20.28		3
256QAM	1	0	17.76	18.02	18.28	0-5	5
	1	25	17.97	18.35	18.22		5
	1	49	17.71	18.04	18.30		5
	25	0	18.20	18.20	18.31		5
	25	12	18.28	18.37	18.36		5
	25	25	18.17	18.29	18.24		5
	50	0	18.17	18.25	18.28		5

Table 9-61
LTE Band 7 Measured P_{Max} for DSI = 0 (Body-worn, or Phablet with grip sensor inactive), or DSI = 2 (Head) - 5 MHz Bandwidth

LTE Band 7 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 20775 (2502.5 MHz)	Mid Channel 21100 (2535.0 MHz)	High Channel 21425 (2567.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	23.02	23.23	23.26	0	0
	1	12	23.04	23.29	23.26		0
	1	24	23.06	23.31	23.30		0
	12	0	22.17	22.28	22.27	0-1	1
	12	6	22.27	22.33	22.28		1
	12	13	22.22	22.32	22.23		1
	25	0	22.20	22.31	22.26		1
16QAM	1	0	22.26	22.70	22.47	0-1	1
	1	12	22.25	22.73	22.47		1
	1	24	22.23	22.76	22.46		1
	12	0	21.20	21.16	21.39	0-2	2
	12	6	21.25	21.30	21.42		2
	12	13	21.19	21.24	21.33		2
	25	0	21.14	21.36	21.27		2
64QAM	1	0	21.41	21.49	21.28	0-2	2
	1	12	21.37	21.52	21.32		2
	1	24	21.36	21.57	21.24		2
	12	0	20.16	20.25	20.33	0-3	3
	12	6	20.25	20.36	20.38		3
	12	13	20.19	20.28	20.32		3
	25	0	20.14	20.22	20.31		3
256QAM	1	0	17.66	18.03	18.33	0-5	5
	1	12	17.98	18.26	18.35		5
	1	24	17.68	18.14	18.28		5
	12	0	18.02	18.19	18.27		5
	12	6	18.36	18.27	18.36		5
	12	13	18.02	18.13	18.36		5
	25	0	18.12	18.11	18.17		5

Table 9-62
LTE Band 7 Measured P_{Limit} for DSI = 1 (Phablet with grip sensor active), or DSI = 3 (Hotspot Mode) and/or DSI = 4 (Earjack Active) - 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	20.34	20.24	**20.46**	0	0
	1	50	20.24	20.28	20.22		0
	1	99	20.21	20.45	20.16		0
	50	0	20.06	20.21	**20.44**	0-1	0
	50	25	20.31	20.34	20.39		0
	50	50	20.22	20.27	20.19		0
	100	0	20.27	20.33	20.39		0
16QAM	1	0	20.43	20.57	20.75	0-1	0
	1	50	20.31	20.52	20.36		0
	1	99	20.31	20.52	20.00		0
	50	0	20.14	20.29	20.47	0-2	0
	50	25	20.34	20.29	20.42		0
	50	50	20.24	20.29	20.52		0
	100	0	20.23	20.24	20.38		0
64QAM	1	0	20.23	20.54	20.75	0-2	0
	1	50	20.38	20.50	20.63		0
	1	99	20.52	20.45	20.42		0
	50	0	20.19	20.26	20.49	0-3	0
	50	25	20.12	20.29	20.23		0
	50	50	20.24	20.30	20.22		0
	100	0	20.23	20.39	20.38		0
256QAM	1	0	18.08	18.13	18.48	0-5	2
	1	50	18.45	18.46	18.49		2
	1	99	18.07	18.30	18.12		2
	50	0	18.12	18.36	18.50		2
	50	25	18.31	18.38	18.49		2
	50	50	18.22	18.27	18.23		2
	100	0	18.32	18.32	18.40		2

Table 9-63
LTE Band 7 Measured P_{Limit} for DSI = 1 (Phablet with grip sensor active), or DSI = 3 (Hotspot Mode) and/or DSI = 4 (Earjack Active) - 15 MHz Bandwidth

LTE Band 7 15 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 20825 (2507.5 MHz)	Mid Channel 21100 (2535.0 MHz)	High Channel 21375 (2562.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	20.35	20.38	20.55	0	0
	1	36	20.26	20.37	20.41		0
	1	74	20.33	20.42	20.30		0
	36	0	20.30	20.41	20.59	0-1	0
	36	18	20.41	20.52	20.55		0
	36	37	20.38	20.46	20.35		0
	75	0	20.42	20.48	20.51		0
16QAM	1	0	20.50	20.62	20.77	0-1	0
	1	36	20.41	20.60	20.65		0
	1	74	20.51	20.66	20.44		0
	36	0	20.30	20.45	20.57	0-2	0
	36	18	20.42	20.56	20.56		0
	36	37	20.39	20.47	20.37		0
	75	0	20.38	20.50	20.50		0
64QAM	1	0	20.50	20.65	20.79	0-2	0
	1	36	20.51	20.69	20.70		0
	1	74	20.57	20.61	20.40		0
	36	0	20.34	20.48	20.58	0-3	0
	36	18	20.47	20.59	20.59		0
	36	37	20.43	20.52	20.41		0
	75	0	20.41	20.52	20.49		0
256QAM	1	0	18.31	18.37	18.60	0-5	2
	1	36	18.36	18.57	18.58		2
	1	74	18.40	18.48	18.34		2
	36	0	18.32	18.49	18.60		2
	36	18	18.42	18.58	18.60		2
	36	37	18.43	18.50	18.41		2
	75	0	18.34	18.51	18.52		2

Table 9-64
LTE Band 7 Measured P_{Limit} for DSI = 1 (Phablet with grip sensor active), or DSI = 3 (Hotspot Mode) and/or DSI = 4 (Earjack Active) - 10 MHz Bandwidth

LTE Band 7 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 20800 (2505.0 MHz)	Mid Channel 21100 (2535.0 MHz)	High Channel 21400 (2565.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	20.39	20.47	20.58	0	0
	1	25	20.27	20.49	20.39		0
	1	49	20.30	20.50	20.36		0
	25	0	20.38	20.51	20.50	0-1	0
	25	12	20.43	20.54	20.46		0
	25	25	20.34	20.48	20.42		0
	50	0	20.31	20.48	20.43		0
16QAM	1	0	20.62	20.90	20.84	0-1	0
	1	25	20.60	20.76	20.74		0
	1	49	20.63	20.83	20.72		0
	25	0	20.35	20.43	20.52	0-2	0
	25	12	20.40	20.53	20.45		0
	25	25	20.35	20.51	20.45		0
	50	0	20.30	20.47	20.39		0
64QAM	1	0	20.64	20.58	20.73	0-2	0
	1	25	20.52	20.65	20.69		0
	1	49	20.59	20.72	20.64		0
	25	0	20.40	20.46	20.55	0-3	0
	25	12	20.43	20.58	20.56		0
	25	25	20.37	20.53	20.47		0
	50	0	20.36	20.50	20.48		0
256QAM	1	0	18.29	18.30	18.43	0-5	2
	1	25	18.45	18.60	18.52		2
	1	49	18.20	18.39	18.31		2
	25	0	18.34	18.40	18.47		2
	25	12	18.41	18.56	18.51		2
	25	25	18.32	18.48	18.35		2
	50	0	18.37	18.48	18.42		2

Table 9-65
LTE Band 7 Measured P_{Limit} for DSI = 1 (Phablet with grip sensor active), or DSI = 3 (Hotspot Mode) and/or DSI = 4 (Earjack Active) - 5 MHz Bandwidth

LTE Band 7 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 20775 (2502.5 MHz)	Mid Channel 21100 (2535.0 MHz)	High Channel 21425 (2567.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	20.35	20.40	20.38	0	0
	1	12	20.38	20.55	20.42		0
	1	24	20.33	20.49	20.35		0
	12	0	20.36	20.45	20.47	0-1	0
	12	6	20.39	20.54	20.46		0
	12	13	20.40	20.51	20.39		0
	25	0	20.39	20.54	20.40		0
16QAM	1	0	20.77	20.76	20.68	0-1	0
	1	12	20.73	20.84	20.81		0
	1	24	20.70	20.80	20.66		0
	12	0	20.45	20.50	20.53	0-2	0
	12	6	20.45	20.59	20.53		0
	12	13	20.40	20.58	20.45		0
	25	0	20.40	20.50	20.40		0
64QAM	1	0	20.58	20.65	20.72	0-2	0
	1	12	20.56	20.68	20.62		0
	1	24	20.53	20.72	20.59		0
	12	0	20.41	20.50	20.52	0-3	0
	12	6	20.48	20.59	20.53		0
	12	13	20.40	20.50	20.47		0
	25	0	20.36	20.52	20.44		0
256QAM	1	0	18.45	18.52	18.53	0-5	2
	1	12	18.46	18.58	18.57		2
	1	24	18.36	18.56	18.50		2
	12	0	18.41	18.50	18.44		2
	12	6	18.43	18.54	18.48		2
	12	13	18.40	18.56	18.44		2
	25	0	18.40	18.54	18.43		2

9.3.11 LTE Band 48

Table 9-66
LTE Band 48 Measured P_{Limit} for DSI = 0 (Body-worn, or Phablet with grip sensor inactive), or DSI = 1 (Phablet with grip sensor active), or DSI = 3 (Hotspot mode active) and/or DSI = 4 (Earjack Active) - 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	22.22	22.27	22.00	22.06	0	0
	1	50	22.45	**22.59**	22.35	22.34		0
	1	99	22.30	22.03	22.01	22.05		0
	50	0	22.64	22.50	22.35	22.47	0-1	0
	50	25	22.68	**22.73**	22.45	22.54		0
	50	50	22.61	22.49	22.43	22.43		0
	100	0	22.52	22.56	22.34	22.44		0
16QAM	1	0	22.70	22.73	22.59	22.67	0-1	0
	1	50	22.99	22.59	22.62	22.59		0
	1	99	22.73	22.52	22.61	22.62		0
	50	0	22.23	22.09	21.96	22.04	0-2	0.5
	50	25	22.32	22.21	22.08	22.14		0.5
	50	50	22.22	22.07	22.06	22.02		0.5
	100	0	22.27	22.13	22.01	22.03		0.5
64QAM	1	0	22.18	22.17	21.30	21.42	0-2	0.5
	1	50	22.50	22.36	21.71	21.68		0.5
	1	99	22.28	22.02	21.40	21.38		0.5
	50	0	21.30	21.11	20.98	21.07	0-3	1.5
	50	25	21.39	21.26	21.11	21.15		1.5
	50	50	21.30	21.08	21.08	21.05		1.5
	100	0	21.30	21.14	21.03	21.10		1.5
256QAM	1	0	18.97	18.97	18.76	18.85	0-5	3.5
	1	50	19.33	19.13	19.13	19.12		3.5
	1	99	19.05	18.80	18.81	18.81		3.5
	50	0	19.29	19.08	19.00	19.09		3.5
	50	25	19.40	19.25	19.11	19.16		3.5
	50	50	19.28	19.09	19.09	19.05		3.5
	100	0	19.28	19.15	19.01	19.07		3.5

Table 9-67
LTE Band 48 Measured P_{Limit} for DSI = 0 (Body-worn, or Phablet with grip sensor inactive), or DSI = 1 (Phablet with grip sensor active), or DSI = 3 (Hotspot mode active) and/or DSI = 4 (Earjack Active) - 15 MHz Bandwidth

LTE Band 48 15 MHz Bandwidth								
Modulation	RB Size	RB Offset	Low Channel 55315 (3557.5 MHz)	Low-Mid Channel 55765 (3602.5 MHz)	Mid-High Channel 56215 (3647.5 MHz)	High Channel 56665 (3692.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]					
QPSK	1	0	21.78	22.24	22.33	22.37	0	0
	1	36	22.04	22.33	22.51	22.46		0
	1	74	21.95	22.14	22.36	22.30		0
	36	0	22.02	22.38	22.42	22.57	0-1	0
	36	18	22.20	22.47	22.60	22.60		0
	36	37	22.15	22.42	22.59	22.57		0
	75	0	22.09	22.43	22.45	22.58		0
16QAM	1	0	22.00	22.45	22.37	22.61	0-1	0
	1	36	22.30	22.56	22.54	22.76		0
	1	74	22.19	22.38	22.39	22.57		0
	36	0	21.67	22.02	22.07	22.45	0-2	0.5
	36	18	21.80	22.13	22.19	22.47		0.5
	36	37	21.78	22.07	22.18	22.43		0.5
	75	0	21.76	22.04	22.06	22.42		0.5
64QAM	1	0	21.59	22.02	21.95	22.47	0-2	0.5
	1	36	21.87	22.12	22.20	22.47		0.5
	1	74	21.78	22.00	22.04	22.43		0.5
	36	0	20.68	21.01	21.10	21.45	0-3	1.5
	36	18	20.85	21.13	21.23	21.48		1.5
	36	37	20.78	21.10	21.21	21.47		1.5
	75	0	20.80	21.11	21.10	21.47		1.5
256QAM	1	0	18.71	19.12	18.46	19.48	0-5	3.5
	1	36	18.93	19.21	18.65	19.50		3.5
	1	74	18.88	19.07	18.52	19.45		3.5
	36	0	18.60	18.95	19.08	19.45		3.5
	36	18	18.75	19.07	19.29	19.50		3.5
	36	37	18.72	19.00	19.21	19.44		3.5
	75	0	18.73	19.00	19.09	19.46		3.5

Table 9-68
LTE Band 48 Measured P_{Limit} for DSI = 0 (Body-worn, or Phablet with grip sensor inactive), or DSI = 1 (Phablet with grip sensor active), or DSI = 3 (Hotspot mode active) and/or DSI = 4 (Earjack Active) - 10 MHz Bandwidth

LTE Band 48 10 MHz Bandwidth								
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			55290 (3555.0 MHz)	55757 (3601.7 MHz)	56223 (3648.3 MHz)	56690 (3695.0 MHz)		
			Conducted Power [dBm]					
QPSK	1	0	21.88	22.11	22.25	22.28	0	0
	1	25	22.19	22.48	22.58	22.61		0
	1	49	22.04	22.30	22.38	22.44		0
	25	0	22.11	22.32	22.51	22.58	0-1	0
	25	12	22.24	22.55	22.64	22.71		0
	25	25	22.20	22.50	22.58	22.66		0
	50	0	22.16	22.46	22.54	22.64		0
16QAM	1	0	21.84	22.12	22.25	22.31	0-1	0
	1	25	22.15	22.46	22.58	22.64		0
	1	49	22.02	22.31	22.40	22.47		0
	25	0	22.15	21.95	22.19	22.43	0-2	0.5
	25	12	22.27	22.18	22.28	22.49		0.5
	25	25	22.22	22.11	22.25	22.48		0.5
	50	0	22.15	22.06	22.21	22.50		0.5
64QAM	1	0	21.96	21.76	21.93	22.30	0-2	0.5
	1	25	22.30	22.18	22.27	22.49		0.5
	1	49	22.12	22.01	22.08	22.46		0.5
	25	0	21.21	20.95	21.16	21.45	0-3	1.5
	25	12	21.33	21.16	21.28	21.49		1.5
	25	25	21.33	21.12	21.26	21.49		1.5
	50	0	21.25	21.04	21.19	21.45		1.5
256QAM	1	0	18.50	18.58	18.42	18.75	0-5	3.5
	1	25	18.82	18.98	18.70	19.04		3.5
	1	49	18.67	18.86	18.55	18.91		3.5
	25	0	19.21	18.92	19.14	19.47		3.5
	25	12	19.32	19.13	19.28	19.50		3.5
	25	25	19.32	19.08	19.25	19.44		3.5
	50	0	19.30	19.09	19.20	19.45		3.5

Table 9-69
LTE Band 48 Measured P_{Limit} for DSI = 0 (Body-worn, or Phablet with grip sensor inactive), or DSI = 1 (Phablet with grip sensor active), or DSI = 3 (Hotspot mode active) and/or DSI = 4 (Earjack Active) - 5 MHz Bandwidth

LTE Band 48 5 MHz Bandwidth								
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			55265 (3552.5 MHz)	55748 (3600.8 MHz)	56232 (3649.2 MHz)	56715 (3697.5 MHz)		
			Conducted Power [dBm]					
QPSK	1	0	21.95	22.15	22.44	22.42	0	0
	1	12	22.17	22.44	22.53	22.60		0
	1	24	22.03	22.35	22.53	22.50		0
	12	0	22.16	22.37	22.53	22.60	0-1	0
	12	6	22.23	22.52	22.61	22.70		0
	12	13	22.23	22.52	22.58	22.67		0
	25	0	22.21	22.48	22.58	22.65		0
16QAM	1	0	22.37	22.60	22.37	22.84	0-1	0
	1	12	22.45	22.72	22.44	22.89		0
	1	24	22.43	22.75	22.46	22.92		0
	12	0	22.15	21.96	22.17	22.41	0-2	0.5
	12	6	22.22	22.13	22.25	22.49		0.5
	12	13	22.23	22.13	22.27	22.50		0.5
	25	0	22.24	22.12	22.18	22.49		0.5
64QAM	1	0	22.31	22.11	22.25	22.50	0-2	0.5
	1	12	22.43	22.34	22.37	22.49		0.5
	1	24	22.41	22.31	22.32	22.49		0.5
	12	0	21.30	21.07	21.22	21.47	0-3	1.5
	12	6	21.40	21.23	21.29	21.50		1.5
	12	13	21.39	21.21	21.28	21.50		1.5
	25	0	21.31	21.10	21.22	21.49		1.5
256QAM	1	0	19.20	18.93	19.37	19.48	0-5	3.5
	1	12	19.25	19.07	19.46	19.49		3.5
	1	24	19.31	19.08	19.46	19.48		3.5
	12	0	19.22	18.94	19.11	19.49		3.5
	12	6	19.31	19.09	19.19	19.48		3.5
	12	13	19.30	19.11	19.20	19.48		3.5
	25	0	19.32	19.08	19.10	19.44		3.5

Table 9-70
LTE Band 48 Measured P_{Limit} for DSI = 2 (Head) - 20 MHz Bandwidth

LTE Band 48 20 MHz Bandwidth								
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			55340 (3560.0 MHz)	55773 (3603.3 MHz)	56207 (3646.7 MHz)	56640 (3690.0 MHz)		
			Conducted Power [dBm]					
QPSK	1	0	19.40	19.23	19.18	19.12	0	0
	1	50	**19.68**	19.35	19.58	19.40		0
	1	99	19.36	19.02	19.30	19.15		0
	50	0	19.73	19.46	19.52	19.49	0-1	0
	50	25	**19.79**	19.60	19.66	19.59		0
	50	50	19.70	19.45	19.66	19.49		0
	100	0	19.67	19.50	19.57	19.49		0
16QAM	1	0	19.55	19.44	19.35	19.32	0-1	0
	1	50	19.85	19.57	19.78	19.63		0
	1	99	19.54	19.23	19.47	19.37		0
	50	0	19.76	19.50	19.55	19.52	0-2	0
	50	25	19.83	19.65	19.71	19.63		0
	50	50	19.73	19.49	19.71	19.55		0
	100	0	19.75	19.54	19.60	19.54		0
64QAM	1	0	19.11	19.00	18.96	18.95	0-2	0
	1	50	19.47	19.19	19.42	19.24		0
	1	99	19.13	18.84	19.08	18.99		0
	50	0	19.80	19.53	19.59	19.56	0-3	0
	50	25	19.88	19.63	19.74	19.65		0
	50	50	19.76	19.54	19.74	19.57		0
	100	0	19.75	19.54	19.60	19.54		0
256QAM	1	0	18.82	18.65	18.61	18.63	0-5	0.5
	1	50	19.15	18.88	19.09	18.92		0.5
	1	99	18.83	18.55	18.77	18.65		0.5
	50	0	19.32	19.05	19.11	19.10		0.5
	50	25	19.38	19.17	19.26	19.18		0.5
	50	50	19.30	19.04	19.27	19.10		0.5
	100	0	19.24	19.03	19.12	19.05		0.5

Table 9-71
LTE Band 48 Measured P_{Limit} for DSI = 2 (Head) - 15 MHz Bandwidth

LTE Band 48 15 MHz Bandwidth								
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			55315 (3557.5 MHz)	55765 (3602.5 MHz)	56215 (3647.5 MHz)	56665 (3692.5 MHz)		
			Conducted Power [dBm]					
QPSK	1	0	19.20	19.31	19.13	19.25	0	0
	1	36	19.41	19.45	19.36	19.39		0
	1	74	19.28	19.14	19.21	19.31		0
	36	0	19.32	19.39	19.53	19.50	0-1	0
	36	18	19.50	19.59	19.61	19.43		0
	36	37	19.42	19.52	19.58	19.45		0
	75	0	19.42	19.49	19.62	19.42		0
16QAM	1	0	19.28	19.52	19.45	19.23	0-1	0
	1	36	19.57	19.59	19.61	19.39		0
	1	74	19.43	19.38	19.44	19.33		0
	36	0	19.32	19.62	19.51	19.54	0-2	0
	36	18	19.50	19.72	19.67	19.58		0
	36	37	19.42	19.69	19.62	19.52		0
	75	0	19.38	19.65	19.70	19.51		0
64QAM	1	0	19.26	19.29	19.47	19.56	0-2	0
	1	36	19.53	19.45	19.68	19.58		0
	1	74	19.41	19.27	19.57	19.45		0
	36	0	19.43	19.51	19.63	19.64	0-3	0
	36	18	19.58	19.52	19.65	19.66		0
	36	37	19.56	19.45	19.61	19.57		0
	75	0	19.47	19.44	19.70	19.58		0
256QAM	1	0	18.49	18.89	18.84	18.77	0-5	0.5
	1	36	18.76	19.01	18.97	19.03		0.5
	1	74	18.72	18.86	18.85	18.85		0.5
	36	0	18.63	18.87	18.87	18.88		0.5
	36	18	18.81	18.99	18.95	18.94		0.5
	36	37	18.72	18.91	18.90	18.89		0.5
	75	0	18.67	18.95	18.91	18.87		0.5

Table 9-72
LTE Band 48 Measured P_{Limit} for DSI = 2 (Head) - 10 MHz Bandwidth

LTE Band 48 10 MHz Bandwidth								
Modulation	RB Size	RB Offset	Low Channel 55290 (3555.0 MHz)	Low-Mid Channel 55757 (3601.7 MHz)	Mid-High Channel 56223 (3648.3 MHz)	High Channel 56690 (3695.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]					
QPSK	1	0	19.18	19.02	19.21	19.11	0	0
	1	25	19.46	19.36	19.50	19.44		0
	1	49	19.21	19.11	19.27	19.27		0
	25	0	19.38	19.23	19.44	19.39	0-1	0
	25	12	19.52	19.40	19.53	19.46		0
	25	25	19.43	19.33	19.45	19.40		0
	50	0	19.42	19.31	19.49	19.34		0
16QAM	1	0	19.45	19.41	19.22	19.17	0-1	0
	1	25	19.59	19.31	19.40	19.54		0
	1	49	19.37	19.54	19.22	19.37		0
	25	0	19.48	19.44	19.44	19.43	0-2	0
	25	12	19.57	19.63	19.55	19.52		0
	25	25	19.48	19.59	19.49	19.47		0
	50	0	19.48	19.55	19.46	19.41		0
64QAM	1	0	19.05	19.12	19.18	19.00	0-2	0
	1	25	19.35	19.56	19.52	19.30		0
	1	49	19.21	19.35	19.21	19.14		0
	25	0	19.44	19.46	19.42	19.38	0-3	0
	25	12	19.58	19.64	19.58	19.51		0
	25	25	19.53	19.57	19.46	19.45		0
	50	0	19.48	19.54	19.44	19.38		0
256QAM	1	0	18.87	18.50	18.85	18.79	0-5	0.5
	1	25	18.71	18.88	19.16	18.98		0.5
	1	49	18.59	18.71	18.96	18.91		0.5
	25	0	18.97	18.82	18.81	18.99		0.5
	25	12	19.10	19.04	18.92	18.99		0.5
	25	25	19.05	19.00	18.82	18.96		0.5
	50	0	19.08	18.96	18.82	18.95		0.5

Table 9-73
LTE Band 48 Measured P_{Limit} for DSI = 2 (Head) - 5 MHz Bandwidth

LTE Band 48 5 MHz Bandwidth								
Modulation	RB Size	RB Offset	Low Channel 55265 (3552.5 MHz)	Low-Mid Channel 55748 (3600.8 MHz)	Mid-High Channel 56232 (3649.2 MHz)	High Channel 56715 (3697.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]					
QPSK	1	0	19.10	19.36	19.33	19.30	0	0
	1	12	19.23	19.59	19.39	19.41		0
	1	24	19.25	19.53	19.38	19.38		0
	12	0	19.37	19.55	19.48	19.42	0-1	0
	12	6	19.15	19.60	19.55	19.46		0
	12	13	19.11	19.60	19.59	19.49		0
	25	0	19.07	19.59	19.52	19.43		0
16QAM	1	0	19.24	19.34	19.36	19.31	0-1	0
	1	12	19.32	19.49	19.41	19.32		0
	1	24	19.34	19.51	19.42	19.38		0
	12	0	19.17	19.53	19.52	19.53	0-2	0
	12	6	19.23	19.67	19.56	19.51		0
	12	13	19.17	19.68	19.55	19.50		0
	25	0	19.13	19.62	19.52	19.44		0
64QAM	1	0	19.25	19.51	19.35	19.54	0-2	0
	1	12	19.31	19.30	19.41	19.44		0
	1	24	19.32	19.80	19.38	19.38		0
	12	0	19.14	19.39	19.47	19.46	0-3	0
	12	6	19.23	19.55	19.57	19.48		0
	12	13	19.26	19.55	19.47	19.52		0
	25	0	19.17	19.45	19.37	19.45		0
256QAM	1	0	18.73	18.87	18.66	19.01	0-5	0.5
	1	12	18.74	19.06	18.79	19.04		0.5
	1	24	18.77	19.03	18.75	18.99		0.5
	12	0	19.04	19.04	18.96	18.89		0.5
	12	6	19.06	19.08	19.00	19.04		0.5
	12	13	19.00	19.00	18.98	18.97		0.5
	25	0	19.02	19.02	18.92	18.84		0.5

9.3.12 LTE Band 41

Table 9-74
LTE Band 41 PC3 Measured P_{Max} for DSI = 0 (Body-worn, or Phablet with grip sensor inactive), or DSI = 2 (Head) - 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	23.86	23.88	23.59	23.60	23.70	0	0
	1	50	23.81	23.85	23.86	23.80	**24.00**		0
	1	99	23.77	23.76	23.56	23.36	23.93		0
	50	0	22.84	22.82	22.76	22.84	22.84	0-1	1
	50	25	22.96	22.94	22.93	22.98	**23.05**		1
	50	50	22.91	22.81	22.84	22.82	23.01		1
	100	0	22.89	22.86	22.85	22.85	22.90		1
16QAM	1	0	22.91	23.02	22.65	22.64	22.42	0-1	1
	1	50	22.88	22.99	22.95	22.87	22.74		1
	1	99	22.84	22.93	22.63	22.41	22.63		1
	50	0	21.83	21.82	21.80	21.82	21.80	0-2	2
	50	25	22.01	22.00	21.98	21.94	22.04		2
	50	50	21.90	21.82	21.86	21.80	21.98		2
	100	0	21.92	21.87	21.85	21.90	21.89		2
64QAM	1	0	21.63	21.80	21.40	21.34	21.59	0-2	2
	1	50	21.63	21.79	21.74	21.65	21.98		2
	1	99	21.63	21.76	21.41	21.17	21.85		2
	50	0	20.88	20.88	20.84	20.88	20.85	0-3	3
	50	25	21.03	21.01	20.99	21.00	21.05		3
	50	50	20.95	20.85	20.90	20.83	21.01		3
	100	0	20.88	20.90	20.85	20.88	20.91		3
256QAM	1	0	18.44	18.33	18.52	18.51	18.49	0-5	5
	1	50	18.80	18.66	18.85	18.77	18.87		5
	1	99	18.53	18.25	18.48	18.32	18.71		5
	50	0	18.86	18.75	18.94	18.89	18.93		5
	50	25	19.06	18.92	19.08	19.03	19.11		5
	50	50	18.99	18.75	18.98	18.87	19.05		5
	100	0	18.92	18.74	18.95	18.86	18.90		5

Table 9-75
LTE Band 41 PC3 Measured P_{Max} for DSI = 0 (Body-worn, or Phablet with grip sensor inactive), or DSI = 2 (Head) - 15 MHz Bandwidth

LTE Band 41 15 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	23.78	23.67	23.59	23.76	23.59	0	0
	1	36	23.77	23.90	23.83	23.92	23.92		0
	1	74	23.75	23.55	23.58	23.61	23.83		0
	36	0	22.76	22.79	22.74	22.83	22.79	0-1	1
	36	18	22.90	22.95	22.82	22.87	22.89		1
	36	37	22.86	22.83	22.85	22.86	22.95		1
	75	0	22.84	22.82	22.80	22.87	22.90		1
16QAM	1	0	22.48	22.57	22.25	22.76	22.64	0-1	1
	1	36	22.50	22.82	22.55	22.90	22.92		1
	1	74	22.40	22.44	22.26	22.54	22.87		1
	36	0	21.83	21.77	21.81	21.81	21.79	0-2	2
	36	18	21.98	21.94	21.92	21.88	21.90		2
	36	37	21.91	21.82	21.93	21.84	21.93		2
	75	0	21.80	21.83	21.80	21.92	21.93		2
64QAM	1	0	21.58	21.38	21.31	21.49	21.58	0-2	2
	1	36	21.61	21.55	21.57	21.60	21.89		2
	1	74	21.52	21.27	21.34	21.36	21.71		2
	36	0	20.81	20.81	20.80	20.86	20.76	0-3	3
	36	18	21.00	20.92	20.85	20.88	20.84		3
	36	37	20.92	20.82	20.76	20.84	20.89		3
	75	0	20.86	20.83	20.89	20.85	20.94		3
256QAM	1	0	18.33	18.20	18.35	18.34	18.33	0-5	5
	1	36	18.53	18.44	18.58	18.49	18.58		5
	1	74	18.42	18.23	18.38	18.21	18.50		5
	36	0	18.57	18.51	18.62	18.57	18.62		5
	36	18	18.76	18.63	18.71	18.62	18.73		5
	36	37	18.70	18.56	18.73	18.61	18.77		5
	75	0	18.66	18.56	18.70	18.63	18.74		5

Table 9-76
LTE Band 41 PC3 Measured P_{Max} for DSI = 0 (Body-worn, or Phablet with grip sensor inactive), or DSI = 2 (Head) - 10 MHz Bandwidth

LTE Band 41 10 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	23.97	23.52	23.69	23.59	23.42	0	0
	1	25	23.96	23.96	23.93	23.85	23.99		0
	1	49	23.94	23.66	23.63	23.58	23.77		0
	25	0	22.82	22.81	22.73	22.77	22.84	0-1	1
	25	12	22.97	22.95	22.81	22.96	23.02		1
	25	25	22.92	22.83	22.79	22.83	22.90		1
	50	0	22.82	22.87	22.83	22.83	22.90		1
16QAM	1	0	23.20	22.54	22.96	22.61	23.06	0-1	1
	1	25	23.21	22.78	23.16	22.87	23.27		1
	1	49	23.18	22.41	22.92	22.61	23.05		1
	25	0	21.93	21.71	21.85	21.73	21.92	0-2	2
	25	12	22.01	21.87	21.91	21.90	22.06		2
	25	25	21.98	21.74	21.88	21.80	21.95		2
	50	0	21.90	21.90	21.86	21.87	21.94		2
64QAM	1	0	21.88	21.36	21.58	21.49	21.66	0-2	2
	1	25	21.92	21.61	21.87	21.74	21.96		2
	1	49	21.91	21.39	21.61	21.54	21.69		2
	25	0	20.90	20.86	20.82	20.71	20.85	0-3	3
	25	12	21.00	21.02	20.89	20.92	21.05		3
	25	25	20.95	20.90	20.83	20.78	20.90		3
	50	0	20.91	20.90	20.86	20.89	20.92		3
256QAM	1	0	18.23	18.14	18.35	18.23	18.36	0-5	5
	1	25	18.51	18.45	18.60	18.56	18.57		5
	1	49	18.26	18.16	18.31	18.26	18.31		5
	25	0	18.66	18.56	18.71	18.64	18.71		5
	25	12	18.79	18.70	18.77	18.79	18.78		5
	25	25	18.66	18.59	18.73	18.69	18.65		5
	50	0	18.76	18.65	18.83	18.75	18.72		5

Table 9-77
LTE Band 41 PC3 Measured P_{Max} for DSI = 0 (Body-worn, or Phablet with grip sensor inactive), or DSI = 2 (Head) - 5 MHz Bandwidth

LTE Band 41 5 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	23.94	23.88	23.70	23.88	23.42	0	0
	1	12	23.97	23.96	23.69	23.92	23.90		0
	1	24	23.94	23.90	23.71	23.87	23.84		0
	12	0	22.91	22.91	22.82	22.83	22.95	0-1	1
	12	6	22.95	22.93	22.88	22.91	23.00		1
	12	13	22.95	22.95	22.85	22.91	22.93		1
	25	0	22.97	22.94	22.90	22.93	22.97		1
16QAM	1	0	23.12	22.93	23.08	22.52	23.00	0-1	1
	1	12	23.10	22.88	23.10	22.53	23.18		1
	1	24	23.16	22.88	23.10	22.48	23.14		1
	12	0	21.98	21.89	21.84	21.83	21.97	0-2	2
	12	6	21.98	22.00	21.90	21.90	22.02		2
	12	13	21.94	21.94	21.88	21.89	22.01		2
	25	0	21.97	21.97	21.93	21.95	21.98		2
64QAM	1	0	22.28	21.84	21.88	21.83	21.90	0-2	2
	1	12	22.23	22.28	21.92	21.86	22.00		2
	1	24	22.27	22.24	21.88	21.82	21.99		2
	12	0	20.96	20.96	20.85	20.95	20.94	0-3	3
	12	6	21.00	20.98	20.89	21.03	20.99		3
	12	13	21.00	20.97	20.86	20.92	20.96		3
	25	0	20.92	20.84	20.82	20.86	20.92		3
256QAM	1	0	18.51	18.36	18.53	18.48	18.47	0-5	5
	1	12	18.54	18.42	18.60	18.57	18.49		5
	1	24	18.49	18.40	18.54	18.55	18.48		5
	12	0	18.81	18.71	18.81	18.78	18.70		5
	12	6	18.84	18.74	18.88	18.81	18.80		5
	12	13	18.82	18.71	18.84	18.78	18.75		5
	25	0	18.76	18.66	18.79	18.77	18.76		5

Table 9-78
LTE Band 41 PC3 Measured P_{Limit} for DSI = 3 (Hotspot Mode) - 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	21.08	**21.57**	20.85	21.00	20.78	0	0
	1	50	21.19	21.46	21.00	21.06	21.08		0
	1	99	21.15	21.38	20.76	21.11	21.04		0
	50	0	21.12	21.49	21.10	21.02	20.95	0-1	0
	50	25	21.34	**21.52**	21.19	21.23	21.15		0
	50	50	21.37	21.42	21.02	21.22	21.12		0
	100	0	21.27	21.38	21.05	21.09	20.98		0
16QAM	1	0	21.36	21.50	20.84	21.00	20.54	0-1	0
	1	50	21.46	21.49	21.09	21.16	20.64		0
	1	99	21.66	21.38	20.77	20.99	20.57		0
	50	0	21.17	21.49	21.04	21.13	20.95	0-2	0
	50	25	21.40	21.57	21.13	21.16	21.10		0
	50	50	21.40	21.28	21.01	21.12	21.02		0
	100	0	21.25	21.42	21.27	21.21	21.06		0
64QAM	1	0	20.81	21.15	20.72	20.40	20.31	0-2	0
	1	50	21.03	21.11	20.72	20.51	20.56		0
	1	99	20.77	21.20	20.51	20.39	20.52		0
	50	0	21.12	21.44	21.09	20.97	21.00	0-3	0
	50	25	21.22	21.37	21.14	20.74	20.94		0
	50	50	21.16	21.32	21.13	20.61	20.83		0
	100	0	21.19	21.29	21.00	20.94	21.04		0
256QAM	1	0	18.68	19.11	18.80	18.56	18.59	0-5	2
	1	50	18.99	19.07	18.94	19.06	18.54		2
	1	99	19.02	19.08	18.54	18.79	18.51		2
	50	0	19.14	19.48	19.11	18.86	18.95		2
	50	25	19.11	19.41	19.21	19.01	19.17		2
	50	50	19.32	19.47	19.16	19.11	18.77		2
	100	0	19.27	19.38	19.03	19.01	19.02		2

Table 9-79
LTE Band 41 PC3 Measured P_{Limit} for DSI = 3 (Hotspot Mode) - 15 MHz Bandwidth

LTE Band 41 15 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	21.12	20.90	20.73	20.98	20.90	0	0
	1	36	21.11	21.06	20.92	21.10	21.16		0
	1	74	21.12	20.84	20.79	20.85	21.17		0
	36	0	21.02	20.98	20.90	21.00	21.10	0-1	0
	36	18	21.19	21.10	20.96	21.09	21.19		0
	36	37	21.18	21.03	21.00	21.07	21.28		0
	75	0	21.11	21.00	20.95	21.09	21.21		0
16QAM	1	0	21.10	20.88	20.97	20.93	21.16	0-1	0
	1	36	21.07	21.01	21.18	21.01	21.42		0
	1	74	21.06	20.74	21.00	20.82	21.38		0
	36	0	21.03	20.97	20.92	21.01	21.14	0-2	0
	36	18	21.17	21.08	20.99	21.04	21.26		0
	36	37	21.17	20.98	21.01	21.07	21.32		0
	75	0	21.11	20.98	20.95	21.05	21.25		0
64QAM	1	0	21.13	20.83	20.91	20.92	21.06	0-2	0
	1	36	21.12	20.98	21.12	21.02	21.36		0
	1	74	21.14	20.79	20.98	20.86	21.32		0
	36	0	21.10	21.03	20.90	21.04	21.12	0-3	0
	36	18	21.25	21.14	21.00	21.08	21.23		0
	36	37	21.22	21.03	21.02	21.09	21.31		0
	75	0	21.17	21.03	21.03	21.07	21.26		0
256QAM	1	0	18.55	18.45	18.98	18.50	19.22	0-5	2
	1	36	18.74	18.64	19.20	18.69	19.48		2
	1	74	18.65	18.41	19.04	18.46	19.39		2
	36	0	19.15	19.11	18.92	19.13	19.17		2
	36	18	19.33	19.22	19.04	19.15	19.30		2
	36	37	19.27	19.09	19.08	19.14	19.36		2
	75	0	19.28	19.16	19.07	19.19	19.35		2

Table 9-80
LTE Band 41 PC3 Measured P_{Limit} for DSI = 3 (Hotspot Mode) - 10 MHz Bandwidth

LTE Band 41 10 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	21.16	20.89	20.78	20.81	21.02	0	0
	1	25	21.18	21.14	21.03	21.09	21.28		0
	1	49	21.16	20.84	20.76	20.84	21.01		0
	25	0	21.16	21.07	20.96	21.02	21.15	0-1	0
	25	12	21.30	21.21	21.04	21.22	21.29		0
	25	25	21.24	21.08	21.01	21.09	21.20		0
	50	0	21.20	21.12	21.03	21.09	21.22		0
16QAM	1	0	21.37	21.06	21.02	21.08	20.95	0-1	0
	1	25	21.39	21.29	21.27	21.32	21.23		0
	1	49	21.38	21.00	21.01	21.09	20.95		0
	25	0	21.15	21.06	21.02	21.05	21.20	0-2	0
	25	12	21.25	21.22	21.09	21.23	21.32		0
	25	25	21.21	21.08	21.03	21.12	21.21		0
	50	0	21.17	21.09	21.07	21.12	21.21		0
64QAM	1	0	21.29	20.99	20.88	20.94	20.96	0-2	0
	1	25	21.33	21.26	21.20	21.25	21.24		0
	1	49	21.35	20.98	20.93	21.02	20.98		0
	25	0	21.16	21.08	20.99	21.05	21.16	0-3	0
	25	12	21.27	21.22	21.05	21.20	21.34		0
	25	25	21.22	21.08	21.02	21.10	21.21		0
	50	0	21.20	21.12	21.05	21.13	21.19		0
256QAM	1	0	19.17	19.11	19.08	19.11	18.58	0-5	2
	1	25	19.47	19.36	19.35	19.37	18.84		2
	1	49	19.22	19.13	19.10	19.16	18.63		2
	25	0	19.14	19.10	19.05	19.09	19.27		2
	25	12	19.30	19.28	19.14	19.29	19.43		2
	25	25	19.19	19.14	19.11	19.15	19.33		2
	50	0	19.32	19.19	19.16	19.21	19.36		2

Table 9-81
LTE Band 41 PC3 Measured P_{Limit} for DSI = 3 (Hotspot Mode) - 5 MHz Bandwidth

LTE Band 41 5 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	21.12	21.00	20.93	21.00	21.10	0	0
	1	12	21.15	21.12	21.05	21.11	21.23		0
	1	24	21.18	21.02	20.95	21.00	21.13		0
	12	0	21.27	21.15	21.09	21.14	21.20	0-1	0
	12	6	21.30	21.23	21.13	21.22	21.32		0
	12	13	21.27	21.16	21.11	21.18	21.28		0
	25	0	21.24	21.17	21.33	21.18	21.31		0
16QAM	1	0	21.35	21.48	21.39	21.38	21.48	0-1	0
	1	12	21.43	21.43	21.35	21.42	21.56		0
	1	24	21.44	21.49	21.09	21.43	21.51		0
	12	0	21.25	21.10	21.16	21.09	21.25	0-2	0
	12	6	21.26	21.22	21.16	21.17	21.33		0
	12	13	21.24	21.14	21.12	21.16	21.26		0
	25	0	21.15	21.22	21.16	21.24	21.31		0
64QAM	1	0	21.06	21.31	21.22	21.28	21.44	0-2	0
	1	12	21.04	21.34	21.28	21.32	21.47		0
	1	24	21.09	21.32	21.29	21.32	21.45		0
	12	0	21.23	21.22	21.14	21.16	21.28	0-3	0
	12	6	21.22	21.26	21.17	21.23	21.42		0
	12	13	21.20	21.22	21.15	21.22	21.35		0
	25	0	21.26	21.21	21.12	21.19	21.32		0
256QAM	1	0	19.06	19.23	19.23	19.27	19.38	0-5	2
	1	12	19.11	19.32	19.26	19.30	19.41		2
	1	24	19.06	19.27	19.22	19.30	19.41		2
	12	0	19.35	19.19	19.16	19.22	19.28		2
	12	6	19.37	19.26	19.23	19.26	19.35		2
	12	13	19.36	19.25	19.15	19.21	19.32		2
	25	0	19.30	19.26	19.20	19.29	19.34		2

Table 9-82
LTE Band 41 Measured P_{Limit} for DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack Active) - 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	22.43	**22.85**	22.06	21.92	21.87	0	0
	1	50	22.45	22.66	22.30	21.92	22.26		0
	1	99	22.54	22.74	21.85	21.80	22.14		0
	50	0	22.38	**22.83**	22.41	22.11	22.11	0-1	0
	50	25	22.55	22.67	22.38	22.30	22.25		0
	50	50	22.54	22.61	22.23	22.15	22.29		0
	100	0	22.48	22.69	22.29	22.20	22.26		0
16QAM	1	0	22.56	22.80	22.08	21.79	22.02	0-1	0
	1	50	22.49	22.83	22.25	22.16	22.23		0
	1	99	22.66	22.69	21.85	21.75	22.09		0
	50	0	22.43	22.77	22.35	22.27	22.07	0-2	0
	50	25	22.50	22.76	22.37	22.27	22.34		0
	50	50	22.58	22.56	22.28	22.12	22.33		0
	100	0	22.52	22.73	22.29	22.21	22.31		0
64QAM	1	0	22.17	22.60	22.08	21.58	21.53	0-2	0
	1	50	22.22	22.43	22.31	21.93	21.97		0
	1	99	22.24	22.30	21.81	21.50	21.81		0
	50	0	21.49	21.82	21.39	21.19	21.13	0-3	1
	50	25	21.56	21.80	21.35	21.32	21.19		1
	50	50	21.59	21.55	21.27	21.13	21.26		1
	100	0	21.49	21.71	21.36	21.18	21.28		1
256QAM	1	0	19.00	19.47	19.04	18.80	18.71	0-5	3
	1	50	19.37	19.64	19.19	19.12	19.18		3
	1	99	19.20	19.11	18.82	18.72	19.01		3
	50	0	19.44	19.88	19.45	19.21	19.19		3
	50	25	19.64	19.81	19.43	19.42	19.37		3
	50	50	19.65	19.63	19.40	19.25	19.38		3
	100	0	19.53	19.76	19.33	19.20	19.31		3

Table 9-83
LTE Band 41 Measured P_{Limit} for DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack Active) - 15 MHz Bandwidth

LTE Band 41 15 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	22.22	21.85	21.86	21.93	21.96	0	0
	1	36	22.20	22.03	22.03	22.05	22.24		0
	1	74	22.21	21.79	21.90	21.85	22.22		0
	36	0	22.10	22.01	21.93	22.03	22.15	0-1	0
	36	18	22.23	22.11	22.00	22.07	22.27		0
	36	37	22.23	22.00	22.06	22.09	22.32		0
	75	0	22.18	22.05	22.01	22.05	22.28		0
16QAM	1	0	22.11	22.07	21.80	22.13	22.16	0-1	0
	1	36	22.10	22.28	21.97	22.28	22.43		0
	1	74	22.11	21.99	21.81	22.05	22.40		0
	36	0	22.10	22.05	21.95	22.07	22.16	0-2	0
	36	18	22.23	22.16	21.99	22.10	22.25		0
	36	37	22.23	22.05	22.05	22.11	22.34		0
	75	0	22.14	22.05	21.98	22.08	22.24		0
64QAM	1	0	22.12	21.99	21.73	22.05	22.10	0-2	0
	1	36	22.13	22.18	21.93	22.25	22.39		0
	1	74	22.18	21.94	21.85	22.03	22.34		0
	36	0	21.26	21.13	21.07	21.16	21.25	0-3	1
	36	18	21.43	21.24	21.14	21.20	21.36		1
	36	37	21.37	21.16	21.20	21.20	21.41		1
	75	0	21.31	21.19	21.16	21.24	21.39		1
256QAM	1	0	18.58	19.14	18.38	19.16	19.24	0-5	3
	1	36	18.78	19.32	18.61	19.32	19.51		3
	1	74	18.70	19.07	18.48	19.15	19.44		3
	36	0	19.18	19.06	19.03	19.08	19.22		3
	36	18	19.38	19.19	19.10	19.13	19.30		3
	36	37	19.30	19.07	19.13	19.14	19.39		3
	75	0	19.32	19.14	19.15	19.17	19.38		3

Table 9-84
LTE Band 41 Measured P_{Limit} for DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack Active) - 10 MHz Bandwidth

LTE Band 41 10 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	22.10	21.86	21.78	21.85	22.07	0	0
	1	25	22.13	22.10	22.06	22.13	22.32		0
	1	49	22.14	21.79	21.81	21.85	22.06		0
	25	0	22.16	22.02	22.01	22.04	22.17	0-1	0
	25	12	22.25	22.18	22.08	22.20	22.34		0
	25	25	22.20	22.03	22.05	22.08	22.20		0
	50	0	22.13	22.07	22.06	22.10	22.22		0
16QAM	1	0	22.34	21.85	22.04	22.10	21.96	0-1	0
	1	25	22.37	22.08	22.26	22.32	22.21		0
	1	49	22.35	21.79	22.01	22.07	21.94		0
	25	0	22.15	22.06	21.98	22.03	22.20	0-2	0
	25	12	22.27	22.22	22.08	22.20	22.35		0
	25	25	22.22	22.09	22.02	22.10	22.23		0
	50	0	22.15	22.10	22.05	22.11	22.23		0
64QAM	1	0	22.25	21.85	21.90	21.97	21.97	0-2	0
	1	25	22.30	22.10	22.17	22.26	22.25		0
	1	49	22.30	21.84	21.93	22.01	22.00		0
	25	0	21.26	21.12	21.09	21.15	21.29	0-3	1
	25	12	21.36	21.27	21.18	21.30	21.44		1
	25	25	21.33	21.16	21.10	21.19	21.30		1
	50	0	21.28	21.17	21.15	21.22	21.31		1
256QAM	1	0	19.13	18.48	19.07	19.10	18.59	0-5	3
	1	25	19.46	18.71	19.38	19.39	18.84		3
	1	49	19.19	18.50	19.11	19.17	18.62		3
	25	0	19.10	19.16	19.06	19.10	19.26		3
	25	12	19.29	19.32	19.10	19.27	19.44		3
	25	25	19.15	19.17	19.09	19.14	19.31		3
	50	0	19.27	19.21	19.18	19.20	19.35		3

Table 9-85
LTE Band 41 Measured P_{Limit} for DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack Active) - 5 MHz Bandwidth

LTE Band 41 5 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	22.09	21.97	21.93	22.00	22.13	0	0
	1	12	22.09	22.09	22.03	22.12	22.23		0
	1	24	22.14	21.99	21.98	22.03	22.15		0
	12	0	22.19	22.11	22.05	22.10	22.22	0-1	0
	12	6	22.21	22.20	22.13	22.18	22.32		0
	12	13	22.20	22.14	22.12	22.16	22.27		0
	25	0	22.21	22.19	22.15	22.17	22.28		0
16QAM	1	0	22.36	22.38	22.29	22.36	22.53	0-1	0
	1	12	22.41	22.43	22.34	22.44	22.54		0
	1	24	22.43	22.40	22.31	22.42	22.50		0
	12	0	22.23	22.12	22.03	22.12	22.22	0-2	0
	12	6	22.26	22.19	22.11	22.19	22.28		0
	12	13	22.25	22.18	22.09	22.17	22.25		0
	25	0	22.16	22.21	22.15	22.21	22.34		0
64QAM	1	0	22.00	22.29	22.26	22.30	22.45	0-2	0
	1	12	21.99	22.34	22.31	22.36	22.49		0
	1	24	22.05	22.29	22.27	22.37	22.47		0
	12	0	21.30	21.27	21.24	21.27	21.38	0-3	1
	12	6	21.29	21.35	21.32	21.34	21.49		1
	12	13	21.25	21.28	21.21	21.32	21.47		1
	25	0	21.38	21.28	21.22	21.27	21.43		1
256QAM	1	0	19.01	19.24	19.20	19.22	19.35	0-5	3
	1	12	19.08	19.31	19.24	19.30	19.40		3
	1	24	19.03	19.26	19.21	19.32	19.38		3
	12	0	19.34	19.18	19.16	19.23	19.26		3
	12	6	19.36	19.28	19.21	19.28	19.38		3
	12	13	19.31	19.25	19.15	19.24	19.35		3
	25	0	19.27	19.26	19.19	19.30	19.39		3

Table 9-86
LTE Band 41 PC2 Measured P_{Max} for DSI = 0 (Body-worn, or Phablet with grip sensor inactive), or DSI = 2 (Head) - 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	26.33	26.40	26.27	26.39	26.16	0	0
	1	50	26.71	26.41	26.59	26.70	26.54		0
	1	99	26.32	26.32	26.21	26.20	26.33		0
	50	0	25.49	25.45	25.41	25.51	25.52	0-1	1
	50	25	25.69	25.61	25.60	25.65	25.68		1
	50	50	25.60	25.45	25.46	25.54	25.68		1
	100	0	25.60	25.44	25.45	25.52	25.58		1

Table 9-87
LTE Band 41 PC2 Measured P_{Limit} for DSI = 3 (Hotspot Mode) - 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	23.01	23.54	22.73	22.60	22.45	0	0
	1	50	23.00	23.48	22.98	22.90	22.71		0
	1	99	23.31	23.40	22.70	22.55	22.56		0
	50	0	23.12	23.49	23.01	22.93	22.84	0-1	0
	50	25	23.33	23.56	23.10	22.81	22.77		0
	50	50	23.35	23.31	23.04	22.69	22.75		0
	100	0	23.26	23.45	23.06	22.72	22.67		0

Table 9-88
LTE Band 41 PC2 Measured P_{Limit} for DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack Active) - 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	24.21	24.30	23.58	23.45	23.42	0	0
	1	50	24.00	24.10	23.77	23.61	23.75		0
	1	99	23.97	24.08	23.43	23.17	23.64		0
	50	0	23.24	23.54	23.15	23.09	23.06	0-1	0
	50	25	23.46	23.58	23.06	23.19	23.22		0
	50	50	23.46	23.37	23.18	23.07	23.13		0
	100	0	23.39	23.51	23.14	23.11	23.15		0

9.3.13 LTE Uplink Carrier Aggregation Conducted Powers

Table 9-89
LTE Uplink Carrier Aggregation Measured P_{max} for all DSI

	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	1	49	LTE B5	5	20597	843.7	2597	888.7	QPSK	1	0	24.99	24.71

Table 9-90
LTE Uplink Carrier Aggregation Measured P_{Max} for DSI = 0 (Body-worn, or Phablet with grip sensor inactive), or DSI = 2 (Head)

	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_66C	LTE B66	20	132072	1720.0	66536	2120.0	QPSK	1	99	LTE B66	20	132270	1739.8	66734	2139.8	QPSK	1	0	23.90	23.17
CA_66C	LTE B66	20	132572	1770.0	67036	2170.0	QPSK	1	0	LTE B66	20	132374	1750.2	66838	2150.2	QPSK	1	99	23.82	23.35
CA_66B	LTE B66	10	132022	1715.0	66486	2115.0	QPSK	1	49	LTE B66	10	132121	1724.9	66585	2124.9	QPSK	1	0	23.72	23.09
CA_66B	LTE B66	10	132622	1775.0	67086	2175.0	QPSK	1	0	LTE B66	10	132523	1765.1	66987	2165.1	QPSK	1	49	23.65	22.98

	PCC							SCC								Power	
Combination	PCC Band	PCC Bandwidth [MHz]	PCC (UL/DL) Channel	PCC (UL/DL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL/DL) Channel	SCC (UL/DL) Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx.Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_41C	LTE B41	20	41490	2680.0	QPSK	1	0	LTE B41	20	41292	2660.2	QPSK	1	99	24.60	23.70

	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	1	0	LTE B41 PC2	20	41292	2660.2	QPSK	1	99	26.00	26.16

Table 9-91
LTE Uplink Carrier Aggregation Measured P_{Limit} for DSI = 0 (Body-worn, or Phablet with grip sensor inactive), or DSI = 1 (Phablet with grip sensor active), or DSI = 3 (Hotspot mode active) and/or DSI = 4 (Earjack Active)

	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	22.65	22.30
CA_48C	LTE B48	20	55773	3603.3	QPSK	1	0	LTE B48	20	55575	3583.5	QPSK	1	99	22.69	22.27

Table 9-92
LTE Uplink Carrier Aggregation Measured P_{Limit} for DSI = 2 (Head)

	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	19.50	19.36

Table 9-93
LTE Uplink Carrier Aggregation Measured P_{limit} for DSI = 1 (Phablet with grip sensor active), or DSI = 3 (Hotspot Mode) and/or DSI = 4 (Earjack Active)

	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_66C	LTE B66	20	132572	1770.0	67036	2170.0	QPSK	50	0	LTE B66	20	132374	1750.2	66838	2150.2	QPSK	50	50	19.48	19.24
CA_66B	LTE B66	10	132622	1775.0	67086	2175.0	QPSK	25	0	LTE B66	10	132523	1765.1	66987	2165.1	QPSK	25	25	19.06	19.15

Table 9-94
LTE Uplink Carrier Aggregation Measured P_{limit} for DSI = 3 (Hotspot Mode)

	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	40185	2549.5	QPSK	1	0	LTE B41	20	39987	2529.7	QPSK	1	99	21.65	21.57
	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	40185	2549.5	QPSK	1	0	LTE B41 PC2	20	39987	2529.7	QPSK	1	99	23.60	23.54

Table 9-95
LTE Uplink Carrier Aggregation Measured P_{limit} for DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack Active)

	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	40185	2549.5	QPSK	1	0	LTE B41	20	39987	2529.7	QPSK	1	99	22.80	22.85
	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	40185	2549.5	QPSK	1	0	LTE B41 PC2	20	39987	2529.7	QPSK	1	99	24.31	24.30

Notes:

1. This device supports uplink carrier aggregation for LTE CA_5B, LTE CA_66B, LTE CA_66C, LTE CA_48C, and LTE CA_41C with a maximum of two component carriers. For intraband 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 9-4
Power Measurement Setup

9.3.14 NR Band n71

Table 9-96
NR Band n71 Measured P_{Max} for all DSI - 20 MHz Bandwidth

NR Band n71 20 MHz Bandwidth					
			Channel		
Modulation	RB Size	RB Offset	136100 (680.5 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
DFT-s-OFDM π/2 BPSK	1	1	24.85	0	0.0
	1	53	24.86		0.0
	1	104	24.75		0.0
	50	0	24.63	0-0.5	0.5
	50	28	24.89	0	0.0
	50	56	24.60	0-0.5	0.5
	100	0	24.64		0.5
DFT-s-OFDM QPSK	1	1	**24.79**	0	0.0
	1	53	24.71		0.0
	1	104	24.69		0.0
	50	0	24.22	0-1	1.0
	50	28	**24.84**	0	0.0
	50	56	24.09	0-1	1.0
	100	0	24.11		1.0
DFT-s-OFDM 16QAM	1	1	24.13	0-1	1.0
CP-OFDM QPSK	1	1	23.64	0-1.5	1.5

Note: NR Band n71 at 20 MHz bandwidth does 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.

Table 9-97
NR Band n71 Measured P_{Max} for all DSI - 15 MHz Bandwidth

NR Band n71 15 MHz Bandwidth					
			Channel		
Modulation	RB Size	RB Offset	136100 (680.5 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
DFT-s-OFDM π/2 BPSK	1	1	24.96	0	0.0
	1	40	24.92		0.0
	1	77	24.80		0.0
	36	0	24.71	0-0.5	0.5
	36	22	24.88	0	0.0
	36	43	24.51	0-0.5	0.5
	75	0	24.61		0.5
DFT-s-OFDM QPSK	1	1	25.01	0	0.0
	1	40	24.83		0.0
	1	77	24.78		0.0
	36	0	24.15	0-1	1.0
	36	22	24.85	0	0.0
	36	43	24.00	0-1	1.0
	75	0	24.13		1.0
DFT-s-OFDM 16QAM	1	1	24.04	0-1	1.0
CP-OFDM QPSK	1	1	23.92	0-1.5	1.5

Note: NR Band n71 at 15 MHz bandwidth does 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.

Table 9-98
NR Band n71 Measured P_{Max} for all DSI - 10 MHz Bandwidth

NR Band n71 10 MHz Bandwidth							
			Channel				
Modulation	RB Size	RB Offset	133600 (668 MHz)	136100 (680.5 MHz)	138600 (693 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
DFT-s-OFDM π/2 BPSK	1	1	24.92	24.63	24.84	0	0.0
	1	26	24.78	24.85	24.87		0.0
	1	50	24.81	24.94	24.79		0.0
	25	0	24.53	24.54	24.64	0-0.5	0.5
	25	14	24.85	24.83	24.75	0	0.0
	25	27	24.42	24.53	24.05	0-0.5	0.5
	50	0	24.61	24.61	24.60		0.5
DFT-s-OFDM QPSK	1	1	24.94	24.86	24.84	0	0.0
	1	26	24.85	24.90	24.79		0.0
	1	50	24.94	24.81	24.66		0.0
	25	0	24.07	24.02	24.09	0-1	1.0
	25	14	24.87	24.89	24.81	0	0.0
	25	27	24.06	24.06	23.98	0-1	1.0
	50	0	24.09	24.09	24.08		1.0
DFT-s-OFDM 16QAM	1	1	23.82	24.01	23.95	0-1	1.0
CP-OFDM QPSK	1	1	23.39	23.79	23.77	0-1.5	1.5

Table 9-99
NR Band n71 Measured P_{Max} for all DSI - 5 MHz Bandwidth

NR Band n71 5 MHz Bandwidth							
			Channel				
Modulation	RB Size	RB Offset	133100 (665.5 MHz)	136100 (680.5 MHz)	139100 (695.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
DFT-s-OFDM π/2 BPSK	1	1	24.85	25.03	24.92	0	0.0
	1	13	24.77	24.85	24.86		0.0
	1	23	24.85	24.88	24.74		0.0
	12	0	24.04	24.67	24.65	0-0.5	0.5
	12	7	24.80	24.81	24.78	0	0.0
	12	13	23.85	24.55	24.61	0-0.5	0.5
	25	0	24.58	24.57	24.53		0.5
DFT-s-OFDM QPSK	1	1	24.82	25.01	25.01	0	0.0
	1	13	24.42	25.10	24.89		0.0
	1	23	24.85	24.87	24.82		0.0
	12	0	24.14	24.23	24.08	0-1	1.0
	12	7	24.77	24.84	24.76	0	0.0
	12	13	24.17	24.13	24.05	0-1	1.0
	25	0	24.10	24.18	24.04		1.0
DFT-s-OFDM 16QAM	1	1	24.13	23.98	24.23	0-1	1.0
CP-OFDM QPSK	1	1	23.78	23.85	23.71	0-1.5	1.5

9.3.15 NR Band n12

Table 9-100
NR Band n12 Measured P_{Max} for all DSI - 15 MHz Bandwidth

NR Band n12 15 MHz Bandwidth					
			Channel		
Modulation	RB Size	RB Offset	141500 (707.5 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
DFT-s-OFDM π/2 BPSK	1	1	24.82	0	0.0
	1	40	24.76		0.0
	1	77	24.70		0.0
	36	0	24.33	0-0.5	0.5
	36	22	24.79	0	0.0
	36	43	24.16	0-0.5	0.5
	75	0	24.29		0.5
DFT-s-OFDM QPSK	1	1	24.68	0	0.0
	1	40	**24.73**		0.0
	1	77	24.65		0.0
	36	0	23.82	0-1	1.0
	36	22	**24.78**	0	0.0
	36	43	23.67	0-1	1.0
	75	0	23.79		1.0
DFT-s-OFDM 16QAM	1	1	23.99	0-1	1.0
CP-OFDM QPSK	1	1	23.33	0-1.5	1.5

Note: NR Band n12 at 15 MHz bandwidth does 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.

Table 9-101
NR Band n12 Measured P_{Max} for all DSI - 10 MHz Bandwidth

NR Band n12 10 MHz Bandwidth					
			Channel		
Modulation	RB Size	RB Offset	141500 (707.5 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
DFT-s-OFDM π/2 BPSK	1	1	24.92	0	0.0
	1	26	24.91		0.0
	1	50	24.31		0.0
	25	0	24.34	0-0.5	0.5
	25	14	24.87	0	0.0
	25	27	24.22	0-0.5	0.5
	50	0	24.36		0.5
DFT-s-OFDM QPSK	1	1	24.83	0	0.0
	1	26	24.89		0.0
	1	50	24.86		0.0
	25	0	23.76	0-1	1.0
	25	14	24.85	0	0.0
	25	27	23.73	0-1	1.0
	50	0	23.84		1.0
DFT-s-OFDM 16QAM	1	1	23.77	0-1	1.0
CP-OFDM QPSK	1	1	23.53	0-1.5	1.5

Note: NR Band n12 at 10 MHz bandwidth does 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.

Table 9-102
NR Band n12 Measured P_{Max} for all DSI - 5 MHz Bandwidth

NR Band n12 5 MHz Bandwidth							
			Channel			MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	140300 (701.5 MHz)	141500 (707.5 MHz)	142700 (713.5 MHz)		
			Conducted Power [dBm]				
DFT-s-OFDM π/2 BPSK	1	1	24.98	24.79	24.81	0	0.0
	1	13	24.82	24.83	24.66		0.0
	1	23	24.71	24.72	24.33		0.0
	12	0	24.34	24.35	24.29	0-0.5	0.5
	12	7	24.77	24.78	24.74	0	0.0
	12	13	24.23	24.24	24.18	0-0.5	0.5
	25	0	24.28	24.27	24.20		0.5
DFT-s-OFDM QPSK	1	1	24.98	24.12	24.91	0	0.0
	1	13	24.79	24.84	24.83		0.0
	1	23	24.87	24.76	24.74		0.0
	12	0	23.94	23.76	23.88	0-1	1.0
	12	7	24.81	24.68	24.78	0	0.0
	12	13	23.73	23.69	23.60	0-1	1.0
	25	0	23.78	23.77	23.77		1.0
DFT-s-OFDM 16QAM	1	1	23.90	23.66	24.00	0-1	1.0
CP-OFDM QPSK	1	1	23.72	23.28	23.44	0-1.5	1.5

9.3.16 NR Band n5

Table 9-103
NR Band n5 Measured P_{Max} for all DSI - 20 MHz Bandwidth

NR Band n5 20 MHz Bandwidth					
			Channel		
Modulation	RB Size	RB Offset	167300 (836.5 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
DFT-s-OFDM π/2 BPSK	1	1	24.86	0	0.0
	1	53	24.75		0.0
	1	104	24.64		0.0
	50	0	24.22	0-0.5	0.5
	50	28	24.72	0	0.0
	50	56	24.20	0-0.5	0.5
	100	0	24.28		0.5
DFT-s-OFDM QPSK	1	1	24.57	0	0.0
	1	53	24.56		0.0
	1	104	**24.64**		0.0
	50	0	23.69	0-1	1.0
	50	28	**24.68**	0	0.0
	50	56	23.59	0-1	1.0
	100	0	23.65		1.0
DFT-s-OFDM 16QAM	1	1	23.82	0-1	1.0
CP-OFDM QPSK	1	1	23.33	0-1.5	1.5

Note: NR Band n5 at 20 MHz bandwidth does 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.

Table 9-104
NR Band n5 Measured P_{Max} for all DSI - 15 MHz Bandwidth

NR Band n5 15 MHz Bandwidth					
			Channel		
Modulation	RB Size	RB Offset	167300 (836.5 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
DFT-s-OFDM π/2 BPSK	1	1	24.89	0	0.0
	1	40	24.86		0.0
	1	77	24.94		0.0
	36	0	24.42	0-0.5	0.5
	36	22	24.78	0	0.0
	36	43	24.24	0-0.5	0.5
	75	0	24.33		0.5
DFT-s-OFDM QPSK	1	1	24.76	0	0.0
	1	40	24.88		0.0
	1	77	24.87		0.0
	36	0	23.83	0-1	1.0
	36	22	24.79	0	0.0
	36	43	23.72	0-1	1.0
	75	0	23.86		1.0
DFT-s-OFDM 16QAM	1	1	23.88	0-1	1.0
CP-OFDM QPSK	1	1	23.27	0-1.5	1.5

Note: NR Band n5 at 15 MHz bandwidth does 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.

Table 9-105
NR Band n5 Measured P_{Max} for all DSI - 10 MHz Bandwidth

NR Band n5 10 MHz Bandwidth					
			Channel		
Modulation	RB Size	RB Offset	167300 (836.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]		
DFT-s-OFDM π/2 BPSK	1	1	24.71	0	0.0
	1	26	24.92		0.0
	1	50	24.61		0.0
	25	0	24.23	0-0.5	0.5
	25	14	24.73	0	0.0
	25	27	24.17	0-0.5	0.5
	50	0	24.28		0.5
DFT-s-OFDM QPSK	1	1	24.91	0	0.0
	1	26	24.92		0.0
	1	50	25.01		0.0
	25	0	23.77	0-1	1.0
	25	14	24.76	0	0.0
	25	27	23.66	0-1	1.0
	50	0	23.79		1.0
DFT-s-OFDM 16QAM	1	1	23.63	0-1	1.0
CP-OFDM QPSK	1	1	23.18	0-1.5	1.5

Note: NR Band n5 at 10 MHz bandwidth does 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.

Table 9-106
NR Band n5 Measured P_{Max} for all DSI - 5 MHz Bandwidth

NR Band n5 5 MHz Bandwidth							
			Channel				
Modulation	RB Size	RB Offset	165300 (826.5 MHz)	167300 (836.5 MHz)	169300 (846.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
DFT-s-OFDM π/2 BPSK	1	1	24.87	24.77	24.76	0	0.0
	1	13	24.68	24.76	24.66		0.0
	1	23	24.79	24.62	24.67		0.0
	12	0	24.36	24.38	24.28	0-0.5	0.5
	12	7	24.70	24.76	24.65	0	0.0
	12	13	24.21	24.24	24.12	0-0.5	0.5
	25	0	24.25	24.22	24.11		0.5
DFT-s-OFDM QPSK	1	1	25.01	24.98	24.93	0	0.0
	1	13	24.94	24.77	24.64		0.0
	1	23	24.81	24.72	24.71		0.0
	12	0	23.86	23.76	23.72	0-1	1.0
	12	7	24.76	24.74	24.64	0	0.0
	12	13	23.70	23.75	23.62	0-1	1.0
	25	0	23.80	23.77	23.67		1.0
DFT-s-OFDM 16QAM	1	1	23.90	23.76	23.72	0-1	1.0
CP-OFDM QPSK	1	1	23.54	23.23	23.40	0-1.5	1.5

9.3.17 NR Band n66 Antenna A

Table 9-107
NR Band n66 Antenna A Measured P_{Max} for DSI = 0 (Body-worn, or Phablet with grip sensor inactive), or DSI = 2 (Head) - 40 MHz Bandwidth

NR Band n66 40 MHz Bandwidth					
			Channel		
Modulation	RB Size	RB Offset	349000 (1745 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR Allowed per 3GPP [dB]
DFT-s-OFDM π/2 BPSK	1	1	24.50	0	0.0
	1	108	24.49		0.0
	1	214	24.48		0.0
	108	0	23.97	0-0.5	0.5
	108	54	24.46	0	0.0
	108	108	24.00	0-0.5	0.5
	216	0	23.97		0.5
DFT-s-OFDM QPSK	1	1	24.47	0	0.0
	1	108	**24.48**		0.0
	1	214	24.36		0.0
	108	0	23.50	0-1	1.0
	108	54	**24.49**	0	0.0
	108	108	23.46	0-1	1.0
	216	0	23.44		1.0
DFT-s-OFDM 16QAM	1	1	23.42	0-1	1.0
CP-OFDM QPSK	1	1	22.95	0-1.5	1.5

Note: NR Band n66 at 40 MHz bandwidth does 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.

Table 9-108
NR Band n66 Antenna A Measured P_{Max} for DSI = 0 (Body-worn, or Phablet with grip sensor inactive), or DSI = 2 (Head) - 30 MHz Bandwidth

NR Band n66 30 MHz Bandwidth					
			Channel		
Modulation	RB Size	RB Offset	349000 (1745 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
DFT-s-OFDM π/2 BPSK	1	1	24.41	0	0.0
	1	80	24.31		0.0
	1	158	24.41		0.0
	80	0	23.91	0-0.5	0.5
	80	40	24.27	0	0.0
	80	80	23.87	0-0.5	0.5
	160	0	23.91		0.5
DFT-s-OFDM QPSK	1	1	24.52	0	0.0
	1	80	24.27		0.0
	1	158	24.46		0.0
	80	0	23.43	0-1	1.0
	80	40	24.28	0	0.0
	80	80	23.41	0-1	1.0
	160	0	23.42		1.0
DFT-s-OFDM 16QAM	1	1	23.56	0-1	1.0
CP-OFDM QPSK	1	1	23.11	0-1.5	1.5

Note: NR Band n66 at 30 MHz bandwidth does 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.

Table 9-109
NR Band n66 Antenna A Measured P_{Max} for DSI = 0 (Body-worn, or Phablet with grip sensor inactive), or DSI = 2 (Head) - 20 MHz Bandwidth

NR Band n66 20 MHz Bandwidth							
			Channel				
Modulation	RB Size	RB Offset	344000 (1720 MHz)	349000 (1745 MHz)	354000 (1770 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
DFT-s-OFDM π/2 BPSK	1	1	24.71	24.58	24.35	0	0.0
	1	53	24.39	24.38	24.41		0.0
	1	104	24.44	24.51	24.31		0.0
	50	0	24.14	23.96	23.84	0-0.5	0.5
	50	28	24.49	24.41	24.41	0	0.0
	50	56	23.84	23.86	23.84	0-0.5	0.5
	100	0	23.99	23.92	23.91		0.5
DFT-s-OFDM QPSK	1	1	24.61	24.61	24.51	0	0.0
	1	53	24.42	24.35	24.41		0.0
	1	104	24.44	24.45	24.39		0.0
	50	0	23.65	23.44	23.37	0-1	1.0
	50	28	24.53	24.41	24.41	0	0.0
	50	56	23.35	23.31	23.41	0-1	1.0
	100	0	23.48	23.36	23.43		1.0
DFT-s-OFDM 16QAM	1	1	23.56	23.46	23.31	0-1	1.0
CP-OFDM QPSK	1	1	23.19	23.15	22.92	0-1.5	1.5

Table 9-110
NR Band n66 Antenna A Measured P_{Max} for DSI = 0 (Body-worn, or Phablet with grip sensor inactive), or DSI = 2 (Head) - 15 MHz Bandwidth

NR Band n66 15 MHz Bandwidth							
			Channel				
Modulation	RB Size	RB Offset	343500 (1717.5 MHz)	349000 (1745 MHz)	354500 (1772.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
DFT-s-OFDM π/2 BPSK	1	1	24.48	24.25	24.25	0	0.0
	1	40	24.37	24.24	24.24		0.0
	1	77	24.47	24.26	24.26		0.0
	36	0	23.92	23.80	23.80	0-0.5	0.5
	36	22	24.39	24.23	24.23	0	0.0
	36	43	23.79	23.76	23.76	0-0.5	0.5
	75	0	23.81	23.75	23.75		0.5
DFT-s-OFDM QPSK	1	1	24.52	24.39	24.39	0	0.0
	1	40	24.53	24.30	24.30		0.0
	1	77	24.43	24.40	24.40		0.0
	36	0	23.45	23.35	23.35	0-1	1.0
	36	22	24.43	24.27	24.27	0	0.0
	36	43	23.35	23.21	23.21	0-1	1.0
	75	0	23.35	23.30	23.30		1.0
DFT-s-OFDM 16QAM	1	1	23.25	23.15	23.15	0-1	1.0
CP-OFDM QPSK	1	1	23.18	23.00	23.00	0-1.5	1.5

Table 9-111
NR Band n66 Antenna A Measured P_{Max} for DSI = 0 (Body-worn, or Phablet with grip sensor inactive), or DSI = 2 (Head) - 10 MHz Bandwidth

NR Band n66 10 MHz Bandwidth							
			Channel				
Modulation	RB Size	RB Offset	343000 (1715 MHz)	349000 (1745 MHz)	355000 (1775 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
DFT-s-OFDM π/2 BPSK	1	1	24.53	24.45	24.45	0	0.0
	1	26	24.48	24.45	24.45		0.0
	1	50	24.51	24.42	24.42		0.0
	25	0	24.03	23.80	23.80	0-0.5	0.5
	25	14	24.49	24.40	24.40	0	0.0
	25	27	23.94	23.91	23.91	0-0.5	0.5
	50	0	23.99	23.83	23.83		0.5
DFT-s-OFDM QPSK	1	1	24.65	24.39	24.39	0	0.0
	1	26	24.58	24.46	24.46		0.0
	1	50	24.55	24.35	24.35		0.0
	25	0	23.43	23.36	23.36	0-1	1.0
	25	14	24.49	24.46	24.46	0	0.0
	25	27	23.47	23.39	23.39	0-1	1.0
	50	0	23.50	23.35	23.35		1.0
DFT-s-OFDM 16QAM	1	1	23.31	23.15	23.15	0-1	1.0
CP-OFDM QPSK	1	1	23.20	23.14	23.14	0-1.5	1.5

Table 9-112
NR Band n66 Antenna A Measured P_{Max} for DSI = 0 (Body-worn, or Phablet with grip sensor inactive), or DSI = 2 (Head) - 5 MHz Bandwidth

NR Band n66 5 MHz Bandwidth							
			Channel				
Modulation	RB Size	RB Offset	342500 (1712.5 MHz)	349000 (1745 MHz)	355500 (1777.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
DFT-s-OFDM π/2 BPSK	1	1	24.53	24.37	24.37	0	0.0
	1	13	24.44	24.35	24.35		0.0
	1	23	24.48	24.50	24.50		0.0
	12	0	23.89	23.91	23.91	0-0.5	0.5
	12	7	24.59	24.40	24.40	0	0.0
	12	13	24.06	23.92	23.92	0-0.5	0.5
	25	0	23.93	23.85	23.85		0.5
DFT-s-OFDM QPSK	1	1	24.61	24.39	24.39	0	0.0
	1	13	24.57	24.60	24.60		0.0
	1	23	24.58	24.40	24.40		0.0
	12	0	23.51	23.34	23.34	0-1	1.0
	12	7	24.60	24.36	24.36	0	0.0
	12	13	23.53	23.35	23.35	0-1	1.0
	25	0	23.51	23.35	23.35		1.0
DFT-s-OFDM 16QAM	1	1	23.28	23.22	23.22	0-1	1.0
CP-OFDM QPSK	1	1	22.83	22.95	22.95	0-1.5	1.5

Table 9-113
NR Band n66 Antenna A Measured P_{Limit} for DSI = 1 (Phablet with grip sensor active), or DSI = 3 (Hotspot Mode) and/or DSI = 4 (Earjack Active) - 40 MHz Bandwidth

NR Band n66 40 MHz Bandwidth					
			Channel		
Modulation	RB Size	RB Offset	349000 (1745 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR Allowed per 3GPP [dB]
DFT-s-OFDM π/2 BPSK	1	1	19.32	0	0.0
	1	108	19.28		0.0
	1	214	19.21		0.0
	108	0	19.25	0-0.5	0.0
	108	54	19.17	0	0.0
	108	108	19.22	0-0.5	0.0
	216	0	19.25		0.0
DFT-s-OFDM QPSK	1	1	**19.50**	0	0.0
	1	108	19.21		0.0
	1	214	19.20		0.0
	108	0	**19.36**	0-1	0.0
	108	54	19.21	0	0.0
	108	108	19.17	0-1	0.0
	216	0	19.28		0.0
DFT-s-OFDM 16QAM	1	1	19.49	0-1	0.0
CP-OFDM QPSK	1	1	19.50	0-1.5	0.0

Note: NR Band n66 at 40 MHz bandwidth does 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.

Table 9-114
NR Band n66 Antenna A Measured P_{Limit} for DSI = 1 (Phablet with grip sensor active), or DSI = 3 (Hotspot Mode) and/or DSI = 4 (Earjack Active) - 30 MHz Bandwidth

NR Band n66 30 MHz Bandwidth					
			Channel		
Modulation	RB Size	RB Offset	349000 (1745 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
DFT-s-OFDM π/2 BPSK	1	1	19.01	0	0.0
	1	80	18.65		0.0
	1	158	18.62		0.0
	80	0	18.78	0-0.5	0.0
	80	40	18.58	0	0.0
	80	80	18.66	0-0.5	0.0
	160	0	18.72		0.0
DFT-s-OFDM QPSK	1	1	19.01	0	0.0
	1	80	18.65		0.0
	1	158	18.68		0.0
	80	0	18.80	0-1	0.0
	80	40	18.60	0	0.0
	80	80	18.71	0-1	0.0
	160	0	18.75		0.0
DFT-s-OFDM 16QAM	1	1	19.05	0-1	0.0
CP-OFDM QPSK	1	1	19.08	0-1.5	0.0

Note: NR Band n66 at 30 MHz bandwidth does 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.

Table 9-115
NR Band n66 Antenna A Measured P_{Limit} for DSI = 1 (Phablet with grip sensor active), or DSI = 3 (Hotspot Mode) and/or DSI = 4 (Earjack Active) - 20 MHz Bandwidth

NR Band n66 20 MHz Bandwidth							
			Channel				
Modulation	RB Size	RB Offset	344000 (1720 MHz)	349000 (1745 MHz)	354000 (1770 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
DFT-s-OFDM π/2 BPSK	1	1	19.30	19.00	18.75	0	0.0
	1	53	19.31	18.80	18.80		0.0
	1	104	19.18	18.85	18.75		0.0
	50	0	19.31	18.85	18.78	0-0.5	0.0
	50	28	19.30	18.76	18.78	0	0.0
	50	56	19.21	18.71	18.75	0-0.5	0.0
	100	0	19.29	18.78	18.78		0.0
DFT-s-OFDM QPSK	1	1	19.45	19.05	18.85	0	0.0
	1	53	19.26	18.74	18.75		0.0
	1	104	19.21	18.82	18.77		0.0
	50	0	19.35	18.86	18.68	0-1	0.0
	50	28	19.30	18.84	18.86	0	0.0
	50	56	19.18	18.75	18.75	0-1	0.0
	100	0	19.31	18.79	18.79		0.0
DFT-s-OFDM 16QAM	1	1	19.50	19.26	18.99	0-1	0.0
CP-OFDM QPSK	1	1	19.40	19.05	18.70	0-1.5	0.0

Table 9-116
NR Band n66 Antenna A Measured P_{Limit} for DSI = 1 (Phablet with grip sensor active), or DSI = 3 (Hotspot Mode) and/or DSI = 4 (Earjack Active) - 15 MHz Bandwidth

NR Band n66 15 MHz Bandwidth							
			Channel				
Modulation	RB Size	RB Offset	343500 (1717.5 MHz)	349000 (1745 MHz)	354500 (1772.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
DFT-s-OFDM π/2 BPSK	1	1	19.45	18.90	18.75	0	0.0
	1	40	19.19	18.70	18.76		0.0
	1	77	19.17	18.72	18.70		0.0
	36	0	19.41	18.79	18.77	0-0.5	0.0
	36	22	19.20	18.75	18.70	0	0.0
	36	43	19.28	18.72	18.65	0-0.5	0.0
	75	0	19.28	18.71	18.70		0.0
DFT-s-OFDM QPSK	1	1	19.48	18.95	18.95	0	0.0
	1	40	19.21	18.69	18.60		0.0
	1	77	19.20	18.77	18.80		0.0
	36	0	19.45	18.84	18.77	0-1	0.0
	36	22	19.30	18.73	18.75	0	0.0
	36	43	19.28	18.80	18.75	0-1	0.0
	75	0	19.31	18.77	18.78		0.0
DFT-s-OFDM 16QAM	1	1	19.50	19.20	19.10	0-1	0.0
CP-OFDM QPSK	1	1	19.45	19.05	18.80	0-1.5	0.0

Table 9-117
NR Band n66 Antenna A Measured P_{Limit} for DSI = 1 (Phablet with grip sensor active), or DSI = 3 (Hotspot Mode) and/or DSI = 4 (Earjack Active) - 10 MHz Bandwidth

NR Band n66 10 MHz Bandwidth							
			Channel				
Modulation	RB Size	RB Offset	343000 (1715 MHz)	349000 (1745 MHz)	355000 (1775 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
DFT-s-OFDM π/2 BPSK	1	1	19.50	18.85	18.73	0	0.0
	1	26	19.45	18.85	18.92		0.0
	1	50	19.40	18.75	18.80		0.0
	25	0	19.37	18.91	18.71	0-0.5	0.0
	25	14	19.41	18.80	18.80	0	0.0
	25	27	19.35	18.75	18.95	0-0.5	0.0
	50	0	19.41	18.79	18.75		0.0
DFT-s-OFDM QPSK	1	1	19.40	18.80	18.80	0	0.0
	1	26	19.46	18.81	18.75		0.0
	1	50	19.30	18.70	18.80		0.0
	25	0	19.45	18.85	18.75	0-1	0.0
	25	14	19.50	18.83	18.87	0	0.0
	25	27	19.35	18.75	18.88	0-1	0.0
	50	0	19.46	18.87	18.71		0.0
DFT-s-OFDM 16QAM	1	1	19.49	18.95	19.01	0-1	0.0
CP-OFDM QPSK	1	1	19.40	18.80	18.95	0-1.5	0.0

Table 9-118
NR Band n66 Antenna A Measured P_{Limit} for DSI = 1 (Phablet with grip sensor active), or DSI = 3 (Hotspot Mode) and/or DSI = 4 (Earjack Active) - 5 MHz Bandwidth

NR Band n66 5 MHz Bandwidth							
			Channel				
Modulation	RB Size	RB Offset	342500 (1712.5 MHz)	349000 (1745 MHz)	355500 (1777.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
DFT-s-OFDM π/2 BPSK	1	1	19.40	18.72	18.86	0	0.0
	1	13	19.46	18.84	18.80		0.0
	1	23	19.46	18.89	18.81		0.0
	12	0	19.45	18.70	18.78	0-0.5	0.0
	12	7	19.47	18.90	18.88	0	0.0
	12	13	19.45	18.70	18.77	0-0.5	0.0
	25	0	19.37	18.70	18.70		0.0
DFT-s-OFDM QPSK	1	1	19.50	18.82	18.85	0	0.0
	1	13	19.44	18.69	18.81		0.0
	1	23	19.35	18.68	18.88		0.0
	12	0	19.42	18.80	18.80	0-1	0.0
	12	7	19.40	18.80	18.88	0	0.0
	12	13	19.40	18.70	18.75	0-1	0.0
	25	0	19.45	18.78	18.86		0.0
DFT-s-OFDM 16QAM	1	1	19.50	19.15	19.17	0-1	0.0
CP-OFDM QPSK	1	1	19.50	18.75	18.85	0-1.5	0.0

9.3.18 NR Band n66 Antenna E

Table 9-119
NR Band n66 Antenna E Measured P_{Max} for DSI = 0 (Body-worn, or Phablet with grip sensor inactive), or DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack Active) - 40 MHz Bandwidth

NR Band n66 40 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR Allowed per 3GPP [dB]
Modulation	RB Size	RB Offset	349000 (1745 MHz) Conducted Power [dBm]		
DFT-s-OFDM π/2 BPSK	1	1	23.65	0	0.0
	1	108	23.78		0.0
	1	214	23.62		0.0
	108	0	23.14	0-0.5	0.5
	108	54	23.60	0	0.0
	108	108	23.12	0-0.5	0.5
	216	0	23.21		0.5
DFT-s-OFDM QPSK	1	1	23.68	0	0.0
	1	108	**23.77**		0.0
	1	214	23.63		0.0
	108	0	22.72	0-1	1.0
	108	54	**23.63**	0	0.0
	108	108	22.71	0-1	1.0
	216	0	22.73		1.0
DFT-s-OFDM 16QAM	1	1	22.69	0-1	1.0
CP-OFDM QPSK	1	1	21.85	0-1.5	1.5

Note: NR Band n66 at 40 MHz bandwidth does 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.

Table 9-120
NR Band n66 Antenna E Measured P_{Max} for DSI = 0 (Body-worn, or Phablet with grip sensor inactive), or DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack Active) - 30 MHz Bandwidth

NR Band n66 30 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	23.55	0	0.0
	1	80	23.74		0.0
	1	158	23.80		0.0
	80	0	23.18	0-0.5	0.5
	80	40	23.66	0	0.0
	80	80	23.18	0-0.5	0.5
	160	0	23.22		0.5
DFT-s-OFDM QPSK	1	1	23.70	0	0.0
	1	80	23.80		0.0
	1	158	23.85		0.0
	80	0	22.67	0-1	1.0
	80	40	23.68	0	0.0
	80	80	22.74	0-1	1.0
	160	0	22.69		1.0
DFT-s-OFDM 16QAM	1	1	22.65	0-1	1.0
CP-OFDM QPSK	1	1	21.90	0-1.5	1.5

Note: NR Band n66 at 30 MHz bandwidth does 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.

Table 9-121
NR Band n66 Antenna E Measured P_{Max} for DSI = 0 (Body-worn, or Phablet with grip sensor inactive), or DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack Active) - 20 MHz Bandwidth

NR Band n66 20 MHz Bandwidth							
			Channel			MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	344000 (1720 MHz)	349000 (1745 MHz)	354000 (1770 MHz)		
			Conducted Power [dBm]				
DFT-s-OFDM π/2 BPSK	1	1	23.65	23.92	23.81	0	0.0
	1	53	23.65	23.76	23.71		0.0
	1	104	23.81	23.64	23.83		0.0
	50	0	23.26	23.34	23.29	0-0.5	0.5
	50	28	23.69	23.54	23.72	0	0.0
	50	56	23.17	23.05	23.22	0-0.5	0.5
	100	0	23.18	23.29	23.29		0.5
DFT-s-OFDM QPSK	1	1	23.75	23.76	23.70	0	0.0
	1	53	23.88	23.92	23.75		0.0
	1	104	23.75	23.66	23.68		0.0
	50	0	22.75	22.64	22.83	0-1	1.0
	50	28	23.67	23.60	23.76	0	0.0
	50	56	22.70	22.85	22.76	0-1	1.0
	100	0	22.72	22.85	22.73		1.0
DFT-s-OFDM 16QAM	1	1	22.60	22.80	22.65	0-1	1.0
CP-OFDM QPSK	1	1	21.97	22.12	22.10	0-1.5	1.5

Table 9-122
NR Band n66 Antenna E Measured P_{Max} for DSI = 0 (Body-worn, or Phablet with grip sensor inactive), or DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack Active) - 15 MHz Bandwidth

NR Band n66 15 MHz Bandwidth							
			Channel			MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	343500 (1717.5 MHz)	349000 (1745 MHz)	354500 (1772.5 MHz)		
			Conducted Power [dBm]				
DFT-s-OFDM π/2 BPSK	1	1	23.72	23.83	23.65	0	0.0
	1	40	23.65	23.75	23.82		0.0
	1	77	23.80	23.69	23.90		0.0
	36	0	23.25	23.41	23.28	0-0.5	0.5
	36	22	23.71	23.54	23.75	0	0.0
	36	43	23.21	23.14	23.22	0-0.5	0.5
	75	0	23.28	23.35	23.30		0.5
DFT-s-OFDM QPSK	1	1	23.80	23.80	23.63	0	0.0
	1	40	23.77	23.97	23.73		0.0
	1	77	23.76	23.68	23.60		0.0
	36	0	22.65	22.62	22.80	0-1	1.0
	36	22	23.75	23.56	23.77	0	0.0
	36	43	22.73	22.85	22.75	0-1	1.0
	75	0	22.73	22.92	22.80		1.0
DFT-s-OFDM 16QAM	1	1	22.63	22.96	22.62	0-1	1.0
CP-OFDM QPSK	1	1	21.95	22.09	22.02	0-1.5	1.5

Table 9-123
NR Band n66 Antenna E Measured P_{Max} for DSI = 0 (Body-worn, or Phablet with grip sensor inactive), or DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack Active) - 10 MHz Bandwidth

NR Band n66 10 MHz Bandwidth							
			Channel			MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	343000 (1715 MHz)	349000 (1745 MHz)	355000 (1775 MHz)		
			Conducted Power [dBm]				
DFT-s-OFDM π/2 BPSK	1	1	23.76	23.72	23.61	0	0.0
	1	26	23.65	23.77	23.74		0.0
	1	50	23.85	23.80	23.63		0.0
	25	0	23.17	23.20	23.15	0-0.5	0.5
	25	14	23.71	23.69	23.58	0	0.0
	25	27	23.20	23.19	23.09	0-0.5	0.5
	50	0	23.24	23.25	23.09		0.5
DFT-s-OFDM QPSK	1	1	23.65	23.56	23.62	0	0.0
	1	26	23.72	23.75	23.64		0.0
	1	50	23.60	23.72	23.55		0.0
	25	0	22.73	22.73	22.61	0-1	1.0
	25	14	23.75	23.70	23.60	0	0.0
	25	27	22.74	22.77	22.60	0-1	1.0
	50	0	22.79	22.76	22.61		1.0
DFT-s-OFDM 16QAM	1	1	22.92	22.80	22.73	0-1	1.0
CP-OFDM QPSK	1	1	22.27	22.19	22.19	0-1.5	1.5

Table 9-124
NR Band n66 Antenna E Measured P_{Max} for DSI = 0 (Body-worn, or Phablet with grip sensor inactive), or DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack Active) - 5 MHz Bandwidth

NR Band n66 5 MHz Bandwidth							
			Channel			MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	342500 (1712.5 MHz)	349000 (1745 MHz)	355500 (1777.5 MHz)		
			Conducted Power [dBm]				
DFT-s-OFDM π/2 BPSK	1	1	23.65	23.66	23.72	0	0.0
	1	13	23.80	23.77	23.80		0.0
	1	23	23.85	23.70	23.75		0.0
	12	0	23.25	23.15	23.15	0-0.5	0.5
	12	7	23.68	23.65	23.65	0	0.0
	12	13	23.15	23.22	23.12	0-0.5	0.5
	25	0	23.15	23.20	23.17		0.5
DFT-s-OFDM QPSK	1	1	23.57	23.76	23.65	0	0.0
	1	13	23.76	23.86	23.85		0.0
	1	23	23.86	23.66	23.85		0.0
	12	0	22.58	22.74	22.65	0-1	1.0
	12	7	23.55	23.70	23.75	0	0.0
	12	13	22.58	22.72	22.66	0-1	1.0
	25	0	22.52	22.67	22.73		1.0
DFT-s-OFDM 16QAM	1	1	22.50	22.73	22.69	0-1	1.0
CP-OFDM QPSK	1	1	22.05	22.25	22.33	0-1.5	1.5

Table 9-125
NR Band n66 Antenna E Measured P_{Limit} for DSI = 2 (Head), or DSI = 3 (Hotspot Mode) - 40 MHz Bandwidth

NR Band n66 40 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR Allowed per 3GPP [dB]
Modulation	RB Size	RB Offset	349000 (1745 MHz) Conducted Power [dBm]		
DFT-s-OFDM π/2 BPSK	1	1	19.02	0	0.0
	1	108	19.26		0.0
	1	214	19.16		0.0
	108	0	19.10	0-0.5	0.0
	108	54	19.00	0	0.0
	108	108	19.11	0-0.5	0.0
	216	0	19.13		0.0
DFT-s-OFDM QPSK	1	1	19.06	0	0.0
	1	108	**19.27**		0.0
	1	214	19.16		0.0
	108	0	**19.17**	0-1	0.0
	108	54	19.00	0	0.0
	108	108	19.14	0-1	0.0
	216	0	19.12		0.0
DFT-s-OFDM 16QAM	1	1	19.08	0-1	0.0
CP-OFDM QPSK	1	1	18.83	0-1.5	0.0

Note: NR Band n66 at 40 MHz bandwidth does 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.

Table 9-126
NR Band n66 Antenna E Measured P_{Limit} for DSI = 2 (Head), or DSI = 3 (Hotspot Mode) - 30 MHz Bandwidth

NR Band n66 30 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	19.01	0	0.0
	1	80	19.00		0.0
	1	158	19.12		0.0
	80	0	18.97	0-0.5	0.0
	80	40	18.93	0	0.0
	80	80	19.10	0-0.5	0.0
	160	0	18.97		0.0
DFT-s-OFDM QPSK	1	1	19.25	0	0.0
	1	80	19.17		0.0
	1	158	19.25		0.0
	80	0	19.06	0-1	0.0
	80	40	19.03	0	0.0
	80	80	19.06	0-1	0.0
	160	0	19.08		0.0
DFT-s-OFDM 16QAM	1	1	19.17	0-1	0.0
CP-OFDM QPSK	1	1	18.96	0-1.5	0.0

Note: NR Band n66 at 30 MHz bandwidth does 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.

Table 9-127
NR Band n66 Antenna E Measured P_{Limit} for DSI = 2 (Head), or DSI = 3 (Hotspot Mode) - 20 MHz Bandwidth

NR Band n66 20 MHz Bandwidth							
			Channel			MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	344000 (1720 MHz)	349000 (1745 MHz)	354000 (1770 MHz)		
			Conducted Power [dBm]				
DFT-s-OFDM π/2 BPSK	1	1	18.81	18.81	18.81	0	0.0
	1	53	18.56	18.61	18.69		0.0
	1	104	18.61	18.96	18.83		0.0
	50	0	18.71	18.78	18.61	0-0.5	0.0
	50	28	18.70	18.69	18.55	0	0.0
	50	56	18.71	18.79	18.61	0-0.5	0.0
	100	0	18.66	18.69	18.68		0.0
DFT-s-OFDM QPSK	1	1	18.76	18.79	18.65	0	0.0
	1	53	18.76	18.85	18.69		0.0
	1	104	18.77	18.80	18.69		0.0
	50	0	18.65	18.80	18.64	0-1	0.0
	50	28	18.66	18.71	18.58	0	0.0
	50	56	18.73	18.75	18.62	0-1	0.0
	100	0	18.65	18.74	18.65		0.0
DFT-s-OFDM 16QAM	1	1	18.65	18.63	18.73	0-1	0.0
CP-OFDM QPSK	1	1	18.56	18.67	18.66	0-1.5	0.0

Table 9-128
NR Band n66 Antenna E Measured P_{Limit} for DSI = 2 (Head), or DSI = 3 (Hotspot Mode) - 15 MHz Bandwidth

NR Band n66 15 MHz Bandwidth							
			Channel			MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	343500 (1717.5 MHz)	349000 (1745 MHz)	354500 (1772.5 MHz)		
			Conducted Power [dBm]				
DFT-s-OFDM π/2 BPSK	1	1	18.65	18.69	18.85	0	0.0
	1	40	18.85	18.76	18.61		0.0
	1	77	18.76	18.85	18.69		0.0
	36	0	18.66	18.81	18.70	0-0.5	0.0
	36	22	18.58	18.77	18.68	0	0.0
	36	43	18.65	18.80	18.66	0-0.5	0.0
	75	0	18.65	18.79	18.62		0.0
DFT-s-OFDM QPSK	1	1	18.68	19.01	18.86	0	0.0
	1	40	18.77	18.87	18.73		0.0
	1	77	18.72	18.89	18.67		0.0
	36	0	18.76	18.77	18.68	0-1	0.0
	36	22	18.70	18.74	18.62	0	0.0
	36	43	18.71	18.82	18.69	0-1	0.0
	75	0	18.71	18.87	18.66		0.0
DFT-s-OFDM 16QAM	1	1	18.82	18.89	18.70	0-1	0.0
CP-OFDM QPSK	1	1	18.67	18.81	18.54	0-1.5	0.0

Table 9-129
NR Band n66 Antenna E Measured P_{Limit} for DSI = 2 (Head), or DSI = 3 (Hotspot Mode) - 10 MHz Bandwidth

NR Band n66 10 MHz Bandwidth							
			Channel			MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	343000 (1715 MHz)	349000 (1745 MHz)	355000 (1775 MHz)		
			Conducted Power [dBm]				
DFT-s-OFDM π/2 BPSK	1	1	18.60	18.71	18.75	0	0.0
	1	26	18.46	18.95	18.75		0.0
	1	50	18.67	18.96	18.68		0.0
	25	0	18.59	18.78	18.75	0-0.5	0.0
	25	14	18.67	18.78	18.60	0	0.0
	25	27	18.56	18.67	18.56	0-0.5	0.0
	50	0	18.62	18.88	18.61		0.0
DFT-s-OFDM QPSK	1	1	18.69	18.78	18.62	0	0.0
	1	26	18.71	19.02	18.67		0.0
	1	50	18.77	18.88	18.73		0.0
	25	0	18.67	18.81	18.62	0-1	0.0
	25	14	18.68	18.85	18.68	0	0.0
	25	27	18.69	18.75	18.61	0-1	0.0
	50	0	18.66	18.80	18.60		0.0
DFT-s-OFDM 16QAM	1	1	18.58	18.61	18.68	0-1	0.0
CP-OFDM QPSK	1	1	18.45	18.55	18.60	0-1.5	0.0

Table 9-130
NR Band n66 Antenna E Measured P_{Limit} for DSI = 2 (Head), or DSI = 3 (Hotspot Mode) - 5 MHz Bandwidth

NR Band n66 5 MHz Bandwidth							
			Channel			MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	342500 (1712.5 MHz)	349000 (1745 MHz)	355500 (1777.5 MHz)		
			Conducted Power [dBm]				
DFT-s-OFDM π/2 BPSK	1	1	18.55	18.83	18.55	0	0.0
	1	13	18.30	18.70	18.58		0.0
	1	23	18.54	18.81	18.72		0.0
	12	0	18.60	18.76	18.57	0-0.5	0.0
	12	7	18.52	18.77	18.55	0	0.0
	12	13	18.61	18.87	18.60	0-0.5	0.0
	25	0	18.60	18.82	18.55		0.0
DFT-s-OFDM QPSK	1	1	18.68	18.97	18.61	0	0.0
	1	13	18.80	18.90	18.50		0.0
	1	23	18.68	18.77	18.68		0.0
	12	0	18.66	18.75	18.41	0-1	0.0
	12	7	18.59	18.80	18.64	0	0.0
	12	13	18.62	18.79	18.59	0-1	0.0
	25	0	18.65	18.78	18.62		0.0
DFT-s-OFDM 16QAM	1	1	18.49	18.77	18.48	0-1	0.0
CP-OFDM QPSK	1	1	18.36	18.64	18.37	0-1.5	0.0

9.3.19 NR Band n25 Antenna A

Table 9-131
NR Band n25 Antenna A Measured P_{Max} for DSI = 0 (Body-worn, or Phablet with grip sensor inactive), or DSI = 2 (Head) - 40 MHz Bandwidth

NR Band n25 40 MHz Bandwidth					
			Channel		
Modulation	RB Size	RB Offset	376500 (1882.5 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR Allowed per 3GPP [dB]
DFT-s-OFDM π/2 BPSK	1	1	23.95	0	0.0
	1	108	23.98		0.0
	1	214	23.83		0.0
	108	0	23.45	0-0.5	0.5
	108	54	24.01	0	0.0
	108	108	23.51	0-0.5	0.5
	216	0	23.45		0.5
DFT-s-OFDM QPSK	1	1	23.90	0	0.0
	1	108	23.93		0.0
	1	214	**24.01**		0.0
	108	0	23.06	0-1	1.0
	108	54	**23.98**	0	0.0
	108	108	23.02	0-1	1.0
	216	0	22.94		1.0
DFT-s-OFDM 16QAM	1	1	23.12	0-1	1.0
CP-OFDM QPSK	1	1	22.75	0-1.5	1.5

Note: NR Band n25 at 40 MHz bandwidth does 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.

Table 9-132
NR Band n25 Antenna A Measured P_{Max} for DSI = 0 (Body-worn, or Phablet with grip sensor inactive), or DSI = 2 (Head) - 30 MHz Bandwidth

NR Band n25 30 MHz Bandwidth					
			Channel		
Modulation	RB Size	RB Offset	376500 (1882.5 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
DFT-s-OFDM π/2 BPSK	1	1	24.05	0	0.0
	1	80	23.85		0.0
	1	158	23.90		0.0
	80	0	23.44	0-0.5	0.5
	80	40	23.99	0	0.0
	80	80	23.53	0-0.5	0.5
	160	0	23.44		0.5
DFT-s-OFDM QPSK	1	1	24.08	0	0.0
	1	80	24.02		0.0
	1	158	24.07		0.0
	80	0	23.00	0-1	1.0
	80	40	24.01	0	0.0
	80	80	23.03	0-1	1.0
	160	0	22.94		1.0
DFT-s-OFDM 16QAM	1	1	23.14	0-1	1.0
CP-OFDM QPSK	1	1	22.63	0-1.5	1.5

Note: NR Band n66 at 30 MHz bandwidth does 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.

Table 9-133
NR Band n25 Antenna A Measured P_{Max} for DSI = 0 (Body-worn, or Phablet with grip sensor inactive), or DSI = 2 (Head) - 25 MHz Bandwidth

NR Band n25 25 MHz Bandwidth					
			Channel		
Modulation	RB Size	RB Offset	376500 (1882.5 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
DFT-s-OFDM π/2 BPSK	1	1	23.91	0	0.0
	1	67	23.88		0.0
	1	131	23.96		0.0
	64	0	23.43	0-0.5	0.5
	64	35	24.03	0	0.0
	64	69	23.53	0-0.5	0.5
	128	0	23.54		0.5
DFT-s-OFDM QPSK	1	1	24.02	0	0.0
	1	67	24.03		0.0
	1	131	24.01		0.0
	64	0	22.93	0-1	1.0
	64	35	24.04	0	0.0
	64	69	22.99	0-1	1.0
	128	0	23.02		1.0
DFT-s-OFDM 16QAM	1	1	23.28	0-1	1.0
CP-OFDM QPSK	1	1	22.87	0-1.5	1.5

Note: NR Band n25 at 25 MHz bandwidth does 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.

Table 9-134
NR Band n25 Antenna A Measured P_{Max} for DSI = 0 (Body-worn, or Phablet with grip sensor inactive), or DSI = 2 (Head) - 20 MHz Bandwidth

NR Band n25 20 MHz Bandwidth							
			Channel				
Modulation	RB Size	RB Offset	372000 (1860 MHz)	376500 (1882.5 MHz)	381000 (1905 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
DFT-s-OFDM π/2 BPSK	1	1	23.75	23.75	23.94	0	0.0
	1	53	23.76	23.96	23.81		0.0
	1	104	23.88	23.87	23.77		0.0
	50	0	23.31	23.48	23.52	0-0.5	0.5
	50	28	23.82	24.06	23.86	0	0.0
	50	56	23.43	23.51	23.32	0-0.5	0.5
	100	0	23.32	23.53	23.35		0.5
DFT-s-OFDM QPSK	1	1	23.97	24.04	24.12	0	0.0
	1	53	23.91	24.09	23.97		0.0
	1	104	24.07	24.03	23.43		0.0
	50	0	22.81	23.07	23.04	0-1	1.0
	50	28	23.86	24.05	23.90	0	0.0
	50	56	22.90	22.98	22.85	0-1	1.0
	100	0	22.84	23.08	22.87		1.0
DFT-s-OFDM 16QAM	1	1	23.03	22.86	22.89	0-1	1.0
CP-OFDM QPSK	1	1	22.72	22.74	22.71	0-1.5	1.5

Table 9-135
NR Band n25 Antenna A Measured P_{Max} for DSI = 0 (Body-worn, or Phablet with grip sensor inactive), or DSI = 2 (Head) - 15 MHz Bandwidth

NR Band n25 15 MHz Bandwidth							
			Channel				
Modulation	RB Size	RB Offset	371500 (1857.5 MHz)	376500 (1882.5 MHz)	381500 (1907.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
DFT-s-OFDM π/2 BPSK	1	1	23.71	24.06	23.94	0	0.0
	1	40	23.79	24.10	23.83		0.0
	1	77	23.91	24.02	23.78		0.0
	36	0	23.31	23.58	23.31	0-0.5	0.5
	36	22	23.83	24.05	23.77	0	0.0
	36	43	23.32	23.53	23.30	0-0.5	0.5
	75	0	23.14	23.32	23.23		0.5
DFT-s-OFDM QPSK	1	1	23.80	24.06	23.80	0	0.0
	1	40	24.01	24.18	23.51		0.0
	1	77	23.96	24.14	23.54		0.0
	36	0	22.81	23.12	22.97	0-1	1.0
	36	22	23.89	24.06	23.84	0	0.0
	36	43	22.85	23.04	22.78	0-1	1.0
	75	0	22.88	23.05	22.89		1.0
DFT-s-OFDM 16QAM	1	1	23.09	23.37	23.11	0-1	1.0
CP-OFDM QPSK	1	1	22.52	22.72	22.43	0-1.5	1.5

Table 9-136
NR Band n25 Antenna A Measured P_{Max} for DSI = 0 (Body-worn, or Phablet with grip sensor inactive), or DSI = 2 (Head) - 10 MHz Bandwidth

NR Band n25 10 MHz Bandwidth							
			Channel				
Modulation	RB Size	RB Offset	371000 (1855 MHz)	376500 (1882.5 MHz)	382000 (1910 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
DFT-s-OFDM π/2 BPSK	1	1	23.85	24.10	23.99	0	0.0
	1	26	23.84	24.15	23.99		0.0
	1	50	23.85	23.90	23.90		0.0
	25	0	23.28	23.36	23.40	0-0.5	0.5
	25	14	23.90	23.95	23.95	0	0.0
	25	27	23.35	23.39	23.30	0-0.5	0.5
	50	0	23.39	23.45	23.37		0.5
DFT-s-OFDM QPSK	1	1	23.80	23.99	24.07	0	0.0
	1	26	23.85	23.90	23.90		0.0
	1	50	24.00	23.90	23.95		0.0
	25	0	22.82	22.97	22.98	0-1	1.0
	25	14	23.95	23.95	23.95	0	0.0
	25	27	22.90	22.95	22.82	0-1	1.0
	50	0	22.92	22.96	22.95		1.0
DFT-s-OFDM 16QAM	1	1	22.95	23.20	23.10	0-1	1.0
CP-OFDM QPSK	1	1	22.70	22.79	22.75	0-1.5	1.5

Table 9-137
NR Band n25 Antenna A Measured P_{Max} for DSI = 0 (Body-worn, or Phablet with grip sensor inactive), or DSI = 2 (Head) - 5 MHz Bandwidth

NR Band n25 5 MHz Bandwidth							
			Channel				
Modulation	RB Size	RB Offset	370500 (1852.5 MHz)	376500 (1882.5 MHz)	382500 (1912.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
DFT-s-OFDM π/2 BPSK	1	1	23.90	23.90	23.79	0	0.0
	1	13	23.85	24.07	23.85		0.0
	1	23	23.95	23.92	23.59		0.0
	12	0	23.21	23.62	23.21	0-0.5	0.5
	12	7	23.80	23.94	23.80	0	0.0
	12	13	23.38	23.55	23.36	0-0.5	0.5
	25	0	23.31	23.45	23.20		0.5
DFT-s-OFDM QPSK	1	1	23.75	23.90	23.70	0	0.0
	1	13	23.95	24.00	23.80		0.0
	1	23	23.90	24.00	23.80		0.0
	12	0	22.71	22.90	22.75	0-1	1.0
	12	7	23.80	23.95	23.80	0	0.0
	12	13	22.95	22.90	22.90	0-1	1.0
	25	0	22.80	22.90	22.75		1.0
DFT-s-OFDM 16QAM	1	1	23.25	23.25	23.20	0-1	1.0
CP-OFDM QPSK	1	1	22.55	22.80	22.70	0-1.5	1.5

Table 9-138
NR Band n25 Antenna A Measured P_{Limit} for DSI = 1 (Phablet with grip sensor active), or DSI = 3 (Hotspot Mode) and/or DSI = 4 (Earjack Active) - 40 MHz Bandwidth

NR Band n25 40 MHz Bandwidth					
			Channel		
Modulation	RB Size	RB Offset	376500 (1882.5 MHz)	MPR Allowed per 3GPP [dB]	MPR Allowed per 3GPP [dB]
			Conducted Power [dBm]		
DFT-s-OFDM π/2 BPSK	1	1	19.40	0	0.0
	1	108	19.35		0.0
	1	214	19.41		0.0
	108	0	19.40	0-0.5	0.0
	108	54	19.43	0	0.0
	108	108	19.46	0-0.5	0.0
	216	0	19.36		0.0
DFT-s-OFDM QPSK	1	1	**19.34**	0	0.0
	1	108	19.27		0.0
	1	214	19.33		0.0
	108	0	**19.47**	0-1	0.0
	108	54	19.44	0	0.0
	108	108	19.46	0-1	0.0
	216	0	19.33		0.0
DFT-s-OFDM 16QAM	1	1	19.50	0-1	0.0
CP-OFDM QPSK	1	1	19.42	0-1.5	0.0

Note: NR Band n25 at 40 MHz bandwidth does 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.

Table 9-139
NR Band n25 Antenna A Measured P_{Limit} for DSI = 1 (Phablet with grip sensor active), or DSI = 3 (Hotspot Mode) and/or DSI = 4 (Earjack Active) - 30 MHz Bandwidth

NR Band n25 30 MHz Bandwidth					
			Channel		
Modulation	RB Size	RB Offset	376500 (1882.5 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
DFT-s-OFDM π/2 BPSK	1	1	18.99	0	0.0
	1	80	18.91		0.0
	1	158	18.93		0.0
	80	0	18.99	0-0.5	0.0
	80	40	18.99	0	0.0
	80	80	18.98	0-0.5	0.0
	160	0	18.95		0.0
DFT-s-OFDM QPSK	1	1	19.21	0	0.0
	1	80	19.20		0.0
	1	158	19.20		0.0
	80	0	18.99	0-1	0.0
	80	40	19.01	0	0.0
	80	80	19.03	0-1	0.0
	160	0	18.95		0.0
DFT-s-OFDM 16QAM	1	1	18.99	0-1	0.0
CP-OFDM QPSK	1	1	18.99	0-1.5	0.0

Note: NR Band n25 at 30 MHz bandwidth does 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.

Table 9-140
NR Band n25 Antenna A Measured P_{Limit} for DSI = 1 (Phablet with grip sensor active), or DSI = 3 (Hotspot Mode) and/or DSI = 4 (Earjack Active) - 25 MHz Bandwidth

NR Band n25 25 MHz Bandwidth					
			Channel		
Modulation	RB Size	RB Offset	376500 (1882.5 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
DFT-s-OFDM π/2 BPSK	1	1	18.98	0	0.0
	1	67	18.95		0.0
	1	131	19.00		0.0
	64	0	18.99	0-0.5	0.0
	64	35	19.01	0	0.0
	64	69	18.99	0-0.5	0.0
	128	0	19.04		0.0
DFT-s-OFDM QPSK	1	1	19.32	0	0.0
	1	67	19.20		0.0
	1	131	19.22		0.0
	64	0	18.99	0-1	0.0
	64	35	19.01	0	0.0
	64	69	18.99	0-1	0.0
	128	0	19.05		0.0
DFT-s-OFDM 16QAM	1	1	19.15	0-1	0.0
CP-OFDM QPSK	1	1	19.00	0-1.5	0.0

Note: NR Band n25 at 25 MHz bandwidth does 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.

Table 9-141
NR Band n25 Antenna A Measured P_{Limit} for DSI = 1 (Phablet with grip sensor active), or DSI = 3 (Hotspot Mode) and/or DSI = 4 (Earjack Active) - 20 MHz Bandwidth

NR Band n25 20 MHz Bandwidth							
			Channel				
Modulation	RB Size	RB Offset	372000 (1860 MHz)	376500 (1882.5 MHz)	381000 (1905 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
DFT-s-OFDM π/2 BPSK	1	1	18.80	18.95	18.90	0	0.0
	1	53	18.85	18.97	18.90		0.0
	1	104	18.80	18.85	18.70		0.0
	50	0	18.75	19.05	18.94	0-0.5	0.0
	50	28	18.80	18.95	18.89	0	0.0
	50	56	18.85	18.92	18.91	0-0.5	0.0
	100	0	18.77	18.99	18.85		0.0
DFT-s-OFDM QPSK	1	1	19.05	19.10	19.15	0	0.0
	1	53	18.99	19.22	19.05		0.0
	1	104	18.95	18.99	19.07		0.0
	50	0	18.77	19.07	18.98	0-1	0.0
	50	28	18.85	19.01	18.92	0	0.0
	50	56	18.85	18.97	18.85	0-1	0.0
	100	0	18.81	19.01	18.93		0.0
DFT-s-OFDM 16QAM	1	1	18.80	19.10	19.10	0-1	0.0
CP-OFDM QPSK	1	1	18.88	18.86	18.90	0-1.5	0.0

Table 9-142
NR Band n25 Antenna A Measured P_{Limit} for DSI = 1 (Phablet with grip sensor active), or DSI = 3 (Hotspot Mode) and/or DSI = 4 (Earjack Active) - 15 MHz Bandwidth

NR Band n25 15 MHz Bandwidth							
			Channel				
Modulation	RB Size	RB Offset	371500 (1857.5 MHz)	376500 (1882.5 MHz)	381500 (1907.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
DFT-s-OFDM π/2 BPSK	1	1	18.77	18.99	18.85	0	0.0
	1	40	18.75	18.96	18.88		0.0
	1	77	18.89	18.94	18.65		0.0
	36	0	18.78	18.95	18.88	0-0.5	0.0
	36	22	18.65	18.95	18.78	0	0.0
	36	43	18.72	18.80	18.80	0-0.5	0.0
	75	0	18.58	18.86	18.85		0.0
DFT-s-OFDM QPSK	1	1	18.99	19.35	19.15	0	0.0
	1	40	19.00	19.35	18.80		0.0
	1	77	19.20	19.27	19.11		0.0
	36	0	18.77	19.10	18.88	0-1	0.0
	36	22	18.68	19.00	18.90	0	0.0
	36	43	18.75	18.94	18.80	0-1	0.0
	75	0	18.65	18.95	18.80		0.0
DFT-s-OFDM 16QAM	1	1	18.77	19.10	18.95	0-1	0.0
CP-OFDM QPSK	1	1	18.75	19.20	18.80	0-1.5	0.0

Table 9-143
NR Band n25 Antenna A Measured P_{Limit} for DSI = 1 (Phablet with grip sensor active), or DSI = 3 (Hotspot Mode) and/or DSI = 4 (Earjack Active) - 10 MHz Bandwidth

NR Band n25 10 MHz Bandwidth							
			Channel				
Modulation	RB Size	RB Offset	371000 (1855 MHz)	376500 (1882.5 MHz)	382000 (1910 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
DFT-s-OFDM π/2 BPSK	1	1	18.60	18.75	18.85	0	0.0
	1	26	18.60	18.90	18.85		0.0
	1	50	18.71	18.96	18.85		0.0
	25	0	18.57	18.86	18.60	0-0.5	0.0
	25	14	18.63	18.94	18.68	0	0.0
	25	27	18.70	18.95	18.71	0-0.5	0.0
	50	0	18.60	18.96	18.71		0.0
DFT-s-OFDM QPSK	1	1	18.90	19.10	18.80	0	0.0
	1	26	18.87	19.05	18.75		0.0
	1	50	18.99	19.11	18.75		0.0
	25	0	18.66	19.10	18.70	0-1	0.0
	25	14	18.61	19.05	18.70	0	0.0
	25	27	18.75	19.05	18.77	0-1	0.0
	50	0	18.65	19.05	18.70		0.0
DFT-s-OFDM 16QAM	1	1	18.80	19.25	18.77	0-1	0.0
CP-OFDM QPSK	1	1	18.60	18.99	18.75	0-1.5	0.0

Table 9-144
NR Band n25 Antenna A Measured P_{Limit} for DSI = 1 (Phablet with grip sensor active), or DSI = 3 (Hotspot Mode) and/or DSI = 4 (Earjack Active) - 5 MHz Bandwidth

NR Band n25 5 MHz Bandwidth							
			Channel				
Modulation	RB Size	RB Offset	370500 (1852.5 MHz)	376500 (1882.5 MHz)	382500 (1912.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
DFT-s-OFDM π/2 BPSK	1	1	18.60	18.98	18.65	0	0.0
	1	13	18.70	18.99	18.75		0.0
	1	23	18.75	19.05	18.70		0.0
	12	0	18.66	18.95	18.60	0-0.5	0.0
	12	7	18.58	18.87	18.70	0	0.0
	12	13	18.60	18.85	18.66	0-0.5	0.0
	25	0	18.48	18.85	18.60		0.0
DFT-s-OFDM QPSK	1	1	18.65	18.90	18.70	0	0.0
	1	13	18.47	19.01	18.80		0.0
	1	23	18.68	18.99	18.66		0.0
	12	0	18.50	18.90	18.60	0-1	0.0
	12	7	18.65	18.89	18.75	0	0.0
	12	13	18.66	18.93	18.70	0-1	0.0
	25	0	18.55	18.90	18.73		0.0
DFT-s-OFDM 16QAM	1	1	18.50	19.10	18.77	0-1	0.0
CP-OFDM QPSK	1	1	18.45	18.85	18.75	0-1.5	0.0

9.3.20 NR Band n25 Antenna E

Table 9-145
NR Band n25 Antenna E Measured P_{Max} for DSI = 0 (Body-worn, or Phablet with grip sensor inactive), or DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack Active) - 40 MHz Bandwidth

NR Band n25 40 MHz Bandwidth					
			Channel		
Modulation	RB Size	RB Offset	376500 (1882.5 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR Allowed per 3GPP [dB]
DFT-s-OFDM π/2 BPSK	1	1	24.02	0	0.0
	1	108	23.50		0.0
	1	214	23.53		0.0
	108	0	23.55	0-0.5	0.5
	108	54	23.92	0	0.0
	108	108	23.80	0-0.5	0.5
	216	0	22.93		0.5
DFT-s-OFDM QPSK	1	1	**24.05**	0	0.0
	1	108	23.45		0.0
	1	214	23.40		0.0
	108	0	23.04	0-1	1.0
	108	54	**23.39**	0	0.0
	108	108	23.28	0-1	1.0
	216	0	22.42		1.0
DFT-s-OFDM 16QAM	1	1	22.94	0-1	1.0
CP-OFDM QPSK	1	1	22.44	0-1.5	1.5

Note: NR Band n25 at 40 MHz bandwidth does 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.

Table 9-146
NR Band n25 Antenna E Measured P_{Max} for DSI = 0 (Body-worn, or Phablet with grip sensor inactive), or DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack Active) - 30 MHz Bandwidth

NR Band n25 30 MHz Bandwidth					
			Channel		
Modulation	RB Size	RB Offset	376500 (1882.5 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
DFT-s-OFDM π/2 BPSK	1	1	23.77	0	0.0
	1	80	23.53		0.0
	1	158	23.62		0.0
	80	0	23.02	0-0.5	0.5
	80	40	23.55	0	0.0
	80	80	23.01	0-0.5	0.5
	160	0	23.02		0.5
DFT-s-OFDM QPSK	1	1	23.77	0	0.0
	1	80	23.59		0.0
	1	158	23.64		0.0
	80	0	22.64	0-1	1.0
	80	40	23.65	0	0.0
	80	80	22.55	0-1	1.0
	160	0	22.58		1.0
DFT-s-OFDM 16QAM	1	1	22.88	0-1	1.0
CP-OFDM QPSK	1	1	22.30	0-1.5	1.5

Note: NR Band n25 at 30 MHz bandwidth does 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.

Table 9-147
NR Band n25 Antenna E Measured P_{Max} for DSI = 0 (Body-worn, or Phablet with grip sensor inactive), or DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack Active) - 25 MHz Bandwidth

NR Band n25 25 MHz Bandwidth					
			Channel		
Modulation	RB Size	RB Offset	376500 (1882.5 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
DFT-s-OFDM π/2 BPSK	1	1	23.57	0	0.0
	1	67	23.60		0.0
	1	131	23.63		0.0
	64	0	23.15	0-0.5	0.5
	64	35	23.68	0	0.0
	64	69	23.05	0-0.5	0.5
	128	0	23.00		0.5
DFT-s-OFDM QPSK	1	1	23.66	0	0.0
	1	67	23.65		0.0
	1	131	23.71		0.0
	64	0	22.81	0-1	1.0
	64	35	23.94	0	0.0
	64	69	22.95	0-1	1.0
	128	0	22.86		1.0
DFT-s-OFDM 16QAM	1	1	22.85	0-1	1.0
CP-OFDM QPSK	1	1	22.25	0-1.5	1.5

Note: NR Band n25 at 25 MHz bandwidth does 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.

Table 9-148
NR Band n25 Antenna E Measured P_{Max} for DSI = 0 (Body-worn, or Phablet with grip sensor inactive), or DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack Active) - 20 MHz Bandwidth

NR Band n25 20 MHz Bandwidth							
			Channel				
Modulation	RB Size	RB Offset	372000 (1860 MHz)	376500 (1882.5 MHz)	381000 (1905 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
DFT-s-OFDM π/2 BPSK	1	1	23.47	23.75	23.58	0	0.0
	1	53	23.50	23.77	23.46		0.0
	1	104	23.60	23.57	23.35		0.0
	50	0	22.92	23.17	22.97	0-0.5	0.5
	50	28	23.52	23.65	23.50	0	0.0
	50	56	23.08	23.16	22.87	0-0.5	0.5
	100	0	22.97	23.15	22.96		0.5
DFT-s-OFDM QPSK	1	1	23.30	23.87	23.65	0	0.0
	1	53	23.60	23.75	23.45		0.0
	1	104	23.65	23.80	23.33		0.0
	50	0	22.50	22.71	22.50	0-1	1.0
	50	28	23.52	23.70	23.49	0	0.0
	50	56	22.65	22.61	22.33	0-1	1.0
	100	0	22.50	22.65	22.49		1.0
DFT-s-OFDM 16QAM	1	1	22.49	22.85	22.51	0-1	1.0
CP-OFDM QPSK	1	1	22.10	22.40	22.20	0-1.5	1.5

Table 9-149
NR Band n25 Antenna E Measured P_{Max} for DSI = 0 (Body-worn, or Phablet with grip sensor inactive), or DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack Active) - 15 MHz Bandwidth

NR Band n25 15 MHz Bandwidth							
			Channel				
Modulation	RB Size	RB Offset	371500 (1857.5 MHz)	376500 (1882.5 MHz)	381500 (1907.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
DFT-s-OFDM π/2 BPSK	1	1	23.50	23.68	23.55	0	0.0
	1	40	23.60	23.70	23.27		0.0
	1	77	23.60	23.75	23.30		0.0
	36	0	22.87	23.15	22.99	0-0.5	0.5
	36	22	23.45	23.60	23.26	0	0.0
	36	43	23.00	23.10	22.80	0-0.5	0.5
	75	0	22.84	22.98	22.69		0.5
DFT-s-OFDM QPSK	1	1	23.55	23.73	23.60	0	0.0
	1	40	23.65	23.75	23.40		0.0
	1	77	23.55	23.77	23.40		0.0
	36	0	22.45	22.66	22.60	0-1	1.0
	36	22	23.47	23.60	23.40	0	0.0
	36	43	22.49	22.60	22.37	0-1	1.0
	75	0	22.57	22.67	22.39		1.0
DFT-s-OFDM 16QAM	1	1	22.55	22.65	22.60	0-1	1.0
CP-OFDM QPSK	1	1	21.95	22.20	22.25	0-1.5	1.5

Table 9-150
NR Band n25 Antenna E Measured P_{Max} for DSI = 0 (Body-worn, or Phablet with grip sensor inactive), or DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack Active) - 10 MHz Bandwidth

NR Band n25 10 MHz Bandwidth							
			Channel				
Modulation	RB Size	RB Offset	371000 (1855 MHz)	376500 (1882.5 MHz)	382000 (1910 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
DFT-s-OFDM π/2 BPSK	1	1	23.40	23.70	23.40	0	0.0
	1	26	23.48	23.70	23.37		0.0
	1	50	23.40	23.55	23.30		0.0
	25	0	22.92	23.15	22.75	0-0.5	0.5
	25	14	23.40	23.61	23.25	0	0.0
	25	27	22.95	23.05	22.80	0-0.5	0.5
	50	0	22.96	23.15	22.84		0.5
DFT-s-OFDM QPSK	1	1	23.55	23.70	23.45	0	0.0
	1	26	23.50	23.70	23.34		0.0
	1	50	23.45	23.55	23.23		0.0
	25	0	22.51	22.65	22.30	0-1	1.0
	25	14	23.40	23.61	23.27	0	0.0
	25	27	22.45	22.55	22.30	0-1	1.0
	50	0	22.46	22.65	22.30		1.0
DFT-s-OFDM 16QAM	1	1	22.55	22.80	22.55	0-1	1.0
CP-OFDM QPSK	1	1	22.01	22.10	21.86	0-1.5	1.5

Table 9-151
NR Band n25 Antenna E Measured P_{Max} for DSI = 0 (Body-worn, or Phablet with grip sensor inactive), or DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack Active) - 5 MHz Bandwidth

NR Band n25 5 MHz Bandwidth							
			Channel				
Modulation	RB Size	RB Offset	370500 (1852.5 MHz)	376500 (1882.5 MHz)	382500 (1912.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
DFT-s-OFDM π/2 BPSK	1	1	23.37	23.50	23.30	0	0.0
	1	13	23.52	23.70	23.25		0.0
	1	23	23.50	23.54	23.00		0.0
	12	0	22.88	22.60	22.66	0-0.5	0.5
	12	7	23.45	23.65	23.12	0	0.0
	12	13	23.05	22.70	22.70	0-0.5	0.5
	25	0	22.90	22.62	22.70		0.5
DFT-s-OFDM QPSK	1	1	23.48	23.55	23.10	0	0.0
	1	13	23.61	23.78	23.25		0.0
	1	23	23.50	23.56	23.25		0.0
	12	0	22.39	22.65	22.26	0-1	1.0
	12	7	23.55	23.70	23.20	0	0.0
	12	13	22.45	22.70	22.25	0-1	1.0
	25	0	22.47	22.66	22.10		1.0
DFT-s-OFDM 16QAM	1	1	22.50	22.65	22.25	0-1	1.0
CP-OFDM QPSK	1	1	21.99	22.10	21.85	0-1.5	1.5

Table 9-152
NR Band n25 Antenna E Measured P_{Limit} for DSI = 2 (Head), or DSI = 3 (Hotspot Mode) - 40 MHz Bandwidth

NR Band n25 40 MHz Bandwidth					
			Channel		
Modulation	RB Size	RB Offset	376500 (1882.5 MHz)	MPR Allowed per 3GPP [dB]	MPR Allowed per 3GPP [dB]
			Conducted Power [dBm]		
DFT-s-OFDM π/2 BPSK	1	1	19.44	0	0.0
	1	108	19.43		0.0
	1	214	19.52		0.0
	108	0	19.49	0-0.5	0.0
	108	54	19.91	0	0.0
	108	108	19.89	0-0.5	0.0
	216	0	18.94		0.0
DFT-s-OFDM QPSK	1	1	19.37	0	0.0
	1	108	**19.40**		0.0
	1	214	19.35		0.0
	108	0	19.50	0-1	0.0
	108	54	19.80	0	0.0
	108	108	**19.90**	0-1	0.0
	216	0	18.98		0.0
DFT-s-OFDM 16QAM	1	1	19.64	0-1	0.0
CP-OFDM QPSK	1	1	19.41	0-1.5	0.0

Note: NR Band n25 at 40 MHz bandwidth does 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.

Table 9-153
NR Band n25 Antenna E Measured P_{Limit} for DSI = 2 (Head), or DSI = 3 (Hotspot Mode) - 30 MHz Bandwidth

NR Band n25 30 MHz Bandwidth					
			Channel		
Modulation	RB Size	RB Offset	376500 (1882.5 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
DFT-s-OFDM π/2 BPSK	1	1	19.20	0	0.0
	1	80	19.21		0.0
	1	158	19.20		0.0
	80	0	19.11	0-0.5	0.0
	80	40	19.13	0	0.0
	80	80	19.05	0-0.5	0.0
	160	0	19.10		0.0
DFT-s-OFDM QPSK	1	1	19.17	0	0.0
	1	80	19.17		0.0
	1	158	19.15		0.0
	80	0	19.11	0-1	0.0
	80	40	19.15	0	0.0
	80	80	19.06	0-1	0.0
	160	0	19.08		0.0
DFT-s-OFDM 16QAM	1	1	19.30	0-1	0.0
CP-OFDM QPSK	1	1	19.35	0-1.5	0.0

Note: NR Band n25 at 30 MHz bandwidth does 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.

Table 9-154
NR Band n25 Antenna E Measured P_{Limit} for DSI = 2 (Head), or DSI = 3 (Hotspot Mode) - 25 MHz Bandwidth

NR Band n25 25 MHz Bandwidth					
			Channel		
Modulation	RB Size	RB Offset	376500 (1882.5 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
DFT-s-OFDM π/2 BPSK	1	1	19.10	0	0.0
	1	67	19.11		0.0
	1	131	19.20		0.0
	64	0	19.05	0-0.5	0.0
	64	35	19.12	0	0.0
	64	69	19.00	0-0.5	0.0
	128	0	19.24		0.0
DFT-s-OFDM QPSK	1	1	19.16	0	0.0
	1	67	19.20		0.0
	1	131	19.25		0.0
	64	0	19.46	0-1	0.0
	64	35	19.47	0	0.0
	64	69	19.47	0-1	0.0
	128	0	19.43		0.0
DFT-s-OFDM 16QAM	1	1	19.30	0-1	0.0
CP-OFDM QPSK	1	1	19.20	0-1.5	0.0

Note: NR Band n25 at 25 MHz bandwidth does 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.

Table 9-155
NR Band n25 Antenna E Measured P_{Limit} for DSI = 2 (Head), or DSI = 3 (Hotspot Mode) - 20 MHz Bandwidth

NR Band n25 20 MHz Bandwidth							
			Channel			MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	372000 (1860 MHz)	376500 (1882.5 MHz)	381000 (1905 MHz)		
			Conducted Power [dBm]				
DFT-s-OFDM π/2 BPSK	1	1	19.00	19.05	19.00	0	0.0
	1	53	18.95	19.10	18.90		0.0
	1	104	19.05	19.05	18.63		0.0
	50	0	18.92	19.08	18.86	0-0.5	0.0
	50	28	18.86	19.01	18.87	0	0.0
	50	56	18.94	19.03	18.75	0-0.5	0.0
	100	0	18.88	19.10	18.91		0.0
DFT-s-OFDM QPSK	1	1	18.99	19.05	19.05	0	0.0
	1	53	18.99	19.11	18.99		0.0
	1	104	19.05	18.99	18.64		0.0
	50	0	18.95	19.10	18.91	0-1	0.0
	50	28	18.90	19.06	18.85	0	0.0
	50	56	18.97	19.05	18.78	0-1	0.0
	100	0	18.90	19.08	18.92		0.0
DFT-s-OFDM 16QAM	1	1	18.95	19.12	19.12	0-1	0.0
CP-OFDM QPSK	1	1	19.01	19.06	19.02	0-1.5	0.0

Table 9-156
NR Band n25 Antenna E Measured P_{Limit} for DSI = 2 (Head), or DSI = 3 (Hotspot Mode) - 15 MHz Bandwidth

NR Band n25 15 MHz Bandwidth							
			Channel			MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	371500 (1857.5 MHz)	376500 (1882.5 MHz)	381500 (1907.5 MHz)		
			Conducted Power [dBm]				
DFT-s-OFDM π/2 BPSK	1	1	18.89	18.99	18.80	0	0.0
	1	40	18.90	19.01	18.56		0.0
	1	77	19.00	19.00	18.65		0.0
	36	0	18.85	18.93	18.78	0-0.5	0.0
	36	22	18.75	18.90	18.65	0	0.0
	36	43	18.85	18.85	18.55	0-0.5	0.0
	75	0	18.65	18.86	18.50		0.0
DFT-s-OFDM QPSK	1	1	18.99	18.99	18.85	0	0.0
	1	40	18.96	19.00	18.75		0.0
	1	77	18.99	19.10	18.86		0.0
	36	0	18.81	19.01	18.85	0-1	0.0
	36	22	18.81	18.96	18.64	0	0.0
	36	43	18.80	18.92	18.60	0-1	0.0
	75	0	18.66	18.87	18.61		0.0
DFT-s-OFDM 16QAM	1	1	18.90	18.95	18.85	0-1	0.0
CP-OFDM QPSK	1	1	18.79	19.11	18.89	0-1.5	0.0

Table 9-157
NR Band n25 Antenna E Measured P_{Limit} for DSI = 2 (Head), or DSI = 3 (Hotspot Mode) - 10 MHz Bandwidth

NR Band n25 10 MHz Bandwidth							
			Channel			MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	371000 (1855 MHz)	376500 (1882.5 MHz)	382000 (1910 MHz)		
			Conducted Power [dBm]				
DFT-s-OFDM π/2 BPSK	1	1	18.75	19.04	18.69	0	0.0
	1	26	18.66	19.00	18.50		0.0
	1	50	18.60	18.81	18.45		0.0
	25	0	18.61	18.92	18.60	0-0.5	0.0
	25	14	18.61	18.86	18.53	0	0.0
	25	27	18.58	18.80	18.55	0-0.5	0.0
	50	0	18.70	18.95	18.60		0.0
DFT-s-OFDM QPSK	1	1	18.60	18.95	18.81	0	0.0
	1	26	18.71	18.95	18.55		0.0
	1	50	18.60	18.78	18.50		0.0
	25	0	18.66	18.91	18.56	0-1	0.0
	25	14	18.65	18.91	18.66	0	0.0
	25	27	18.63	18.78	18.55	0-1	0.0
	50	0	18.62	18.95	18.60		0.0
DFT-s-OFDM 16QAM	1	1	18.65	19.01	18.70	0-1	0.0
CP-OFDM QPSK	1	1	18.72	19.04	18.65	0-1.5	0.0

Table 9-158
NR Band n25 Antenna E Measured P_{Limit} for DSI = 2 (Head), or DSI = 3 (Hotspot Mode) - 5 MHz Bandwidth

NR Band n25 5 MHz Bandwidth							
			Channel			MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	370500 (1852.5 MHz)	376500 (1882.5 MHz)	382500 (1912.5 MHz)		
			Conducted Power [dBm]				
DFT-s-OFDM π/2 BPSK	1	1	18.55	18.88	18.45	0	0.0
	1	13	18.69	18.95	18.65		0.0
	1	23	18.79	18.87	18.50		0.0
	12	0	18.55	18.90	18.51	0-0.5	0.0
	12	7	18.65	18.92	18.51	0	0.0
	12	13	18.66	19.00	18.50	0-0.5	0.0
	25	0	18.58	18.85	18.48		0.0
DFT-s-OFDM QPSK	1	1	18.70	18.78	18.55	0	0.0
	1	13	18.71	19.02	18.55		0.0
	1	23	18.76	19.00	18.40		0.0
	12	0	18.50	18.77	18.51	0-1	0.0
	12	7	18.66	18.95	18.57	0	0.0
	12	13	18.75	18.95	18.51	0-1	0.0
	25	0	18.65	18.91	18.45		0.0
DFT-s-OFDM 16QAM	1	1	18.75	18.99	18.50	0-1	0.0
CP-OFDM QPSK	1	1	18.50	18.85	18.49	0-1.5	0.0

9.3.21 NR Band n30

Table 9-159
NR Band n30 Measured P_{Max} DSI = 0 (Body-worn, or Phablet with grip sensor inactive), or DSI = 2 (Head) - 10 MHz Bandwidth

NR Band n30 10 MHz Bandwidth					
			Channel		
Modulation	RB Size	RB Offset	462000 (2310 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
DFT-s-OFDM π/2 BPSK	1	1	23.43	0	0.0
	1	26	23.39		0.0
	1	50	23.31		0.0
	25	0	22.91	0-0.5	0.5
	25	14	23.36	0	0.0
	25	27	22.93	0-0.5	0.5
	50	0	22.94		0.5
DFT-s-OFDM QPSK	1	1	22.49	0	0.0
	1	26	**23.44**		0.0
	1	50	23.34		0.0
	25	0	21.99	0-1	1.0
	25	14	**23.34**	0	0.0
	25	27	22.32	0-1	1.0
	50	0	22.31		1.0
DFT-s-OFDM 16QAM	1	1	21.57	0-1	1.0
CP-OFDM QPSK	1	1	20.94	0-1.5	1.5

Note: NR Band n30 at 10 MHz bandwidth does 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.

Table 9-160
NR Band n30 Measured P_{Max} for DSI = 0 (Body-worn, or Phablet with grip sensor inactive), or DSI = 2 (Head) - 5 MHz Bandwidth

NR Band n30 5 MHz Bandwidth					
			Channel		
Modulation	RB Size	RB Offset	462000 (2310 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
DFT-s-OFDM π/2 BPSK	1	1	23.12	0	0.0
	1	13	23.31		0.0
	1	23	23.40		0.0
	12	0	22.72	0-0.5	0.5
	12	7	23.32	0	0.0
	12	13	22.72	0-0.5	0.5
	25	0	22.66		0.5
DFT-s-OFDM QPSK	1	1	22.64	0	0.0
	1	13	23.41		0.0
	1	23	23.48		0.0
	12	0	22.18	0-1	1.0
	12	7	23.29	0	0.0
	12	13	22.25	0-1	1.0
	25	0	22.18		1.0
DFT-s-OFDM 16QAM	1	1	21.50	0-1	1.0
CP-OFDM QPSK	1	1	21.10	0-1.5	1.5

Note: NR Band n30 at 5 MHz bandwidth does 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.

Table 9-161
NR Band n30 Measured P_{Limit} for DSI = 3 (Hotspot Mode) - 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	18.39	0	0.0
	1	26	18.47		0.0
	1	50	18.39		0.0
	25	0	18.21	0-0.5	0.0
	25	14	18.29	0	0.0
	25	27	18.32	0-0.5	0.0
	50	0	18.24		0.0
DFT-s-OFDM QPSK	1	1	**18.47**	0	0.0
	1	26	18.46		0.0
	1	50	18.44		0.0
	25	0	**18.32**	0-1	0.0
	25	14	18.27	0	0.0
	25	27	18.31	0-1	0.0
	50	0	18.31		0.0
DFT-s-OFDM 16QAM	1	1	18.28	0-1	0.0
CP-OFDM QPSK	1	1	18.45	0-1.5	0.0

Note: NR Band n30 at 10 MHz bandwidth does 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.

Table 9-162
NR Band n30 Measured P_{Limit} for DSI = 3 (Hotspot Mode) - 5 MHz Bandwidth

NR Band n30 5 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	18.41	0	0.0
	1	13	18.45		0.0
	1	23	18.37		0.0
	12	0	18.29	0-0.5	0.0
	12	7	18.35	0	0.0
	12	13	18.29	0-0.5	0.0
	25	0	18.22		0.0
DFT-s-OFDM QPSK	1	1	18.41	0	0.0
	1	13	18.48		0.0
	1	23	18.45		0.0
	12	0	18.22	0-1	0.0
	12	7	18.29	0	0.0
	12	13	18.20	0-1	0.0
	25	0	18.25		0.0
DFT-s-OFDM 16QAM	1	1	18.30	0-1	0.0
CP-OFDM QPSK	1	1	18.40	0-1.5	0.0

Note: NR Band n30 at 5 MHz bandwidth does 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.

Table 9-163
NR Band n30 Measured P_{Limit} for DSI = 1 (Phablet with Grip Sensor Active) and/or DSI = 4 (Earjack Active) - 10 MHz Bandwidth

NR Band n30 10 MHz Bandwidth					
			Channel		
Modulation	RB Size	RB Offset	462000 (2310 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
DFT-s-OFDM π/2 BPSK	1	1	19.22	0	0.0
	1	26	19.25		0.0
	1	50	19.27		0.0
	25	0	19.14	0-0.5	0.0
	25	14	19.19	0	0.0
	25	27	19.19	0-0.5	0.0
	50	0	19.15		0.0
DFT-s-OFDM QPSK	1	1	19.13	0	0.0
	1	26	**19.14**		0.0
	1	50	19.04		0.0
	25	0	19.18	0-1	0.0
	25	14	**19.21**	0	0.0
	25	27	19.17	0-1	0.0
	50	0	19.13		0.0
DFT-s-OFDM 16QAM	1	1	19.14	0-1	0.0
CP-OFDM QPSK	1	1	19.31	0-1.5	0.0

Note: NR Band n30 at 10 MHz bandwidth does 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.

Table 9-164
NR Band n30 Measured P_{Limit} for DSI = 1 (Phablet with Grip Sensor Active) and/or DSI = 4 (Earjack Active) - 5 MHz Bandwidth

NR Band n30 5 MHz Bandwidth					
			Channel		
Modulation	RB Size	RB Offset	462000 (2310 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
DFT-s-OFDM π/2 BPSK	1	1	19.21	0	0.0
	1	13	19.18		0.0
	1	23	19.24		0.0
	12	0	19.19	0-0.5	0.0
	12	7	19.22	0	0.0
	12	13	19.21	0-0.5	0.0
	25	0	19.16		0.0
DFT-s-OFDM QPSK	1	1	19.13	0	0.0
	1	13	19.22		0.0
	1	23	19.25		0.0
	12	0	19.16	0-1	0.0
	12	7	19.18	0	0.0
	12	13	19.16	0-1	0.0
	25	0	19.23		0.0
DFT-s-OFDM 16QAM	1	1	19.08	0-1	0.0
CP-OFDM QPSK	1	1	19.05	0-1.5	0.0

Note: NR Band n30 at 5 MHz bandwidth does 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.

9.3.22 NR Band n41 Antenna B

Table 9-165
NR Band n41 Antenna B Measured P_{Limit} for DSI = 0 (Body-worn, or Phablet with grip sensor inactive), or DSI = 2 (Head) - 100 MHz Bandwidth

NR Band n41 100 MHz Bandwidth					
			Channel		
Modulation	RB Size	RB Offset	518598 (2592.99 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
DFT-s-OFDM π/2 BPSK	1	1	17.68	0	0.0
	1	137	18.02		0.0
	1	271	17.60		0.0
	135	0	17.68	0-0.5	0.5
	135	69	17.94	0	0.0
	135	138	17.41	0-0.5	0.5
	270	0	17.53		0.5
DFT-s-OFDM QPSK	1	1	**18.26**	0	0.0
	1	137	18.09		0.0
	1	271	17.56		0.0
	135	0	17.16	0-1	1.0
	135	69	**18.00**	0	0.0
	135	138	16.94	0-1	1.0
	270	0	17.09		1.0
DFT-s-OFDM 16QAM	1	1	17.28	0-1	1.0
CP-OFDM QPSK	1	1	16.97	0-1.5	1.5

Note: NR Band n41 Antenna B at 100 MHz bandwidth does 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.

Table 9-166
NR Band n41 Antenna B Measured P_{Limit} for DSI = 0 (Body-worn, or Phablet with grip sensor inactive), or DSI = 2 (Head) - 90 MHz Bandwidth

NR Band n41 90 MHz Bandwidth						
			Channel			
Modulation	RB Size	RB Offset	508200 (2541 MHz)	528996 (2644.98 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]			
DFT-s-OFDM π/2 BPSK	1	1	17.77	17.53	0	0.0
	1	123	18.18	17.45		0.0
	1	243	17.71	17.15		0.0
	120	0	17.54	17.05	0-0.5	0.5
	120	63	18.11	17.41	0	0.0
	120	125	17.37	16.85	0-0.5	0.5
	243	0	17.51	17.02		0.5
DFT-s-OFDM QPSK	1	1	17.87	17.69	0	0.0
	1	123	18.11	17.41		0.0
	1	243	17.65	17.20		0.0
	120	0	16.99	16.58	0-1	1.0
	120	63	18.15	17.47	0	0.0
	120	125	16.95	16.85	0-1	1.0
	243	0	17.11	17.00		1.0
DFT-s-OFDM 16QAM	1	1	16.79	16.55	0-1	1.0
CP-OFDM QPSK	1	1	16.42	16.05	0-1.5	1.5

Table 9-167
NR Band n41 Antenna B Measured P_{Limit} for DSI = 0 (Body-worn, or Phablet with grip sensor inactive), or DSI = 2 (Head) - 80 MHz Bandwidth

NR Band n41 80 MHz Bandwidth						
			Channel		MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	507204 (2536.02 MHz)	529998 (2649.99 MHz)		
			Conducted Power [dBm]			
DFT-s-OFDM π/2 BPSK	1	1	18.01	17.55	0	0.0
	1	109	18.25	17.28		0.0
	1	215	17.91	17.21		0.0
	108	0	17.65	17.01	0-0.5	0.5
	108	55	18.23	17.40	0	0.0
	108	109	17.67	16.80	0-0.5	0.5
	216	0	17.65	16.91		0.5
DFT-s-OFDM QPSK	1	1	18.05	17.67	0	0.0
	1	109	18.30	17.40		0.0
	1	215	17.81	17.17		0.0
	108	0	17.10	16.56	0-1	1.0
	108	55	18.22	17.42	0	0.0
	108	109	17.15	16.32	0-1	1.0
	216	0	17.15	16.40		1.0
DFT-s-OFDM 16QAM	1	1	17.00	16.56	0-1	1.0
CP-OFDM QPSK	1	1	16.54	16.20	0-1.5	1.5

Table 9-168
NR Band n41 Antenna B Measured P_{Limit} for DSI = 0 (Body-worn, or Phablet with grip sensor inactive), or DSI = 2 (Head) - 60 MHz Bandwidth

NR Band n41 60 MHz Bandwidth							
			Channel			MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	505200 (2526 MHz)	518598 (2592.99 MHz)	531996 (2659.98 MHz)		
			Conducted Power [dBm]				
DFT-s-OFDM π/2 BPSK	1	1	17.97	17.75	17.47	0	0.0
	1	81	18.15	17.71	17.32		0.0
	1	160	18.05	17.60	17.23		0.0
	81	0	17.45	17.25	16.86	0-0.5	0.5
	81	41	18.15	17.73	17.32	0	0.0
	81	81	17.67	17.20	16.78	0-0.5	0.5
	162	0	17.63	17.25	16.85		0.5
DFT-s-OFDM QPSK	1	1	17.96	17.87	17.45	0	0.0
	1	81	18.15	17.75	17.25		0.0
	1	160	18.02	17.50	17.21		0.0
	81	0	17.00	16.86	16.37	0-1	1.0
	81	41	18.12	17.75	17.31	0	0.0
	81	81	17.18	16.66	16.26	0-1	1.0
	162	0	17.13	16.75	16.36		1.0
DFT-s-OFDM 16QAM	1	1	16.99	16.90	16.40	0-1	1.0
CP-OFDM QPSK	1	1	16.50	16.20	15.90	0-1.5	1.5

Table 9-169
NR Band n41 Antenna B Measured P_{Limit} for DSI = 0 (Body-worn, or Phablet with grip sensor inactive), or DSI = 2 (Head) - 50 MHz Bandwidth

NR Band n41 50 MHz Bandwidth							
			Channel			MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	504204 (2521.02 MHz)	518598 (2592.99 MHz)	532998 (2664.99 MHz)		
			Conducted Power [dBm]				
DFT-s-OFDM π/2 BPSK	1	1	17.86	17.89	17.31	0	0.0
	1	67	18.06	17.59	17.23		0.0
	1	131	18.17	17.62	17.27		0.0
	64	0	17.38	17.21	16.80	0-0.5	0.5
	64	35	18.07	17.68	17.20	0	0.0
	64	69	17.61	17.07	16.71	0-0.5	0.5
	128	0	17.46	17.17	16.73		0.5
DFT-s-OFDM QPSK	1	1	17.92	17.87	17.39	0	0.0
	1	67	18.10	17.66	17.19		0.0
	1	131	18.20	17.59	17.18		0.0
	64	0	16.97	16.77	16.29	0-1	1.0
	64	35	18.11	17.67	17.21	0	0.0
	64	69	17.15	16.66	16.20	0-1	1.0
	128	0	17.05	16.70	16.29		1.0
DFT-s-OFDM 16QAM	1	1	17.00	16.96	16.45	0-1	1.0
CP-OFDM QPSK	1	1	16.39	16.45	15.95	0-1.5	1.5

Table 9-170
NR Band n41 Antenna B Measured P_{Limit} for DSI = 0 (Body-worn, or Phablet with grip sensor inactive), or DSI = 2 (Head) - 40 MHz Bandwidth

NR Band n41 40 MHz Bandwidth								
			Channel				MPR Allowed per 3GPP [dB]	MPR Allowed per 3GPP [dB]
Modulation	RB Size	RB Offset	503202 (2516.01 MHz)	513468 (2567.34 MHz)	523734 (2618.67 MHz)	534000 (2670 MHz)		
			Conducted Power [dBm]					
DFT-s-OFDM π/2 BPSK	1	1	18.16	18.17	17.99	17.60	0	0.0
	1	53	18.35	18.05	17.82	17.60		0.0
	1	104	18.50	18.16	17.80	17.52		0.0
	50	0	17.75	17.67	17.44	17.15	0-0.5	0.5
	50	28	18.35	18.10	17.87	17.53	0	0.0
	50	56	17.92	17.66	17.40	17.09	0-0.5	0.5
	100	0	17.89	17.71	17.42	17.05		0.5
DFT-s-OFDM QPSK	1	1	18.32	18.32	18.09	17.75	0	0.0
	1	53	18.39	18.15	17.80	17.49		0.0
	1	104	18.53	18.15	17.77	17.53		0.0
	50	0	17.29	17.25	16.96	16.60	0-1	1.0
	50	28	18.39	18.16	17.89	17.57	0	0.0
	50	56	17.50	17.15	16.81	16.55	0-1	1.0
	100	0	17.43	17.19	16.86	16.60		1.0
DFT-s-OFDM 16QAM	1	1	17.15	17.39	16.99	16.71	0-1	1.0
CP-OFDM QPSK	1	1	16.79	16.85	16.60	16.12	0-1.5	1.5

Table 9-171
NR Band n41 Antenna B Measured P_{Limit} for DSI = 0 (Body-worn, or Phablet with grip sensor inactive), or DSI = 2 (Head) - 30 MHz Bandwidth

NR Band n41 30 MHz Bandwidth									
			Channel					MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	502200 (2511 MHz)	510402 (2552.01 MHz)	518598 (2592.99 MHz)	526800 (2634 MHz)	534996 (2674.98 MHz)		
			Conducted Power [dBm]						
DFT-s-OFDM π/2 BPSK	1	1	17.82	18.39	18.01	17.85	17.55	0	0.0
	1	39	18.12	18.13	17.92	17.60	17.46		0.0
	1	76	18.48	18.31	18.01	17.75	17.55		0.0
	36	0	17.65	17.81	17.53	17.25	17.03	0-0.5	0.5
	36	21	18.17	18.18	17.97	17.65	17.06	0	0.0
	36	42	17.86	17.72	17.45	17.19	17.02	0-0.5	0.5
	75	0	17.78	17.74	17.51	17.18	17.00		0.5
DFT-s-OFDM QPSK	1	1	18.15	18.40	18.17	17.91	17.59	0	0.0
	1	39	18.17	18.15	17.93	17.61	17.59		0.0
	1	76	18.51	18.26	18.02	17.74	17.60		0.0
	36	0	17.17	17.33	17.02	16.78	16.58	0-1	1.0
	36	21	18.23	18.24	17.95	17.63	17.46	0	0.0
	36	42	17.36	17.24	16.97	16.62	16.45	0-1	1.0
	75	0	17.31	17.22	17.03	16.65	16.53		1.0
DFT-s-OFDM 16QAM	1	1	17.09	17.38	17.05	16.80	16.56	0-1	1.0
CP-OFDM QPSK	1	1	16.70	16.80	16.65	16.45	16.10	0-1.5	1.5

Table 9-172
NR Band n41 Antenna B Measured P_{Limit} for DSI = 0 (Body-worn, or Phablet with grip sensor inactive), or DSI = 2 (Head) - 20 MHz Bandwidth

NR Band n41 20 MHz Bandwidth									
			Channel					MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	501204 (2506.02 MHz)	509898 (2549.49 MHz)	518598 (2592.99 MHz)	527298 (2636.49 MHz)	535998 (2679.99 MHz)		
			Conducted Power [dBm]						
DFT-s-OFDM π/2 BPSK	1	1	17.65	17.81	17.35	17.38	17.15	0	0.0
	1	26	17.74	17.85	17.45	17.17	17.12		0.0
	1	49	18.00	17.77	17.61	17.31	17.06		0.0
	25	0	17.42	17.48	17.15	16.94	16.72	0-0.5	0.5
	25	13	17.87	17.97	17.65	17.30	17.12	0	0.0
	25	26	17.48	17.47	17.11	16.85	16.71	0-0.5	0.5
	50	0	17.35	17.42	17.20	16.87	16.68		0.5
DFT-s-OFDM QPSK	1	1	17.77	18.01	17.81	17.53	17.24	0	0.0
	1	26	17.77	17.97	17.61	17.30	17.11		0.0
	1	49	18.05	17.87	17.70	17.30	17.17		0.0
	25	0	16.91	16.96	16.71	16.42	16.25	0-1	1.0
	25	13	17.90	17.99	17.70	17.36	17.21	0	0.0
	25	26	17.00	16.92	16.65	16.29	16.15	0-1	1.0
	50	0	16.86	17.05	16.69	16.39	16.22		1.0
DFT-s-OFDM 16QAM	1	1	16.76	17.08	16.76	16.54	16.20	0-1	1.0
CP-OFDM QPSK	1	1	16.25	16.66	16.33	16.05	15.70	0-1.5	1.5

Table 9-173
NR Band n41 Antenna B Measured P_{Limit} for DSI = 3 (Hotspot Mode) - 100 MHz Bandwidth

NR Band n41 100 MHz Bandwidth					
			Channel		
Modulation	RB Size	RB Offset	518598 (2592.99 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
DFT-s-OFDM π/2 BPSK	1	1	13.60	0	0.0
	1	137	13.57		0.0
	1	271	13.50		0.0
	135	0	13.56	0-0.5	0.0
	135	69	13.58	0	0.0
	135	138	13.61	0-0.5	0.0
	270	0	13.58		0.0
DFT-s-OFDM QPSK	1	1	13.58	0	0.0
	1	137	13.59		0.0
	1	271	**13.60**		0.0
	135	0	13.56	0-1	0.0
	135	69	13.57	0	0.0
	135	138	**13.64**	0-1	0.0
	270	0	13.59		0.0
DFT-s-OFDM 16QAM	1	1	13.35	0-1	0.0
CP-OFDM QPSK	1	1	13.67	0-1.5	0.0

Note: NR Band n41 Antenna B at 100 MHz bandwidth does 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.

Table 9-174
NR Band n41 Antenna B Measured P_{Limit} for DSI = 3 (Hotspot Mode) - 90 MHz Bandwidth

NR Band n41 90 MHz Bandwidth						
			Channel			
Modulation	RB Size	RB Offset	508200 (2541 MHz)	528996 (2644.98 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]			
DFT-s-OFDM π/2 BPSK	1	1	12.88	12.40	0	0.0
	1	123	12.84	12.24		0.0
	1	243	12.50	11.89		0.0
	120	0	12.82	12.37	0-0.5	0.0
	120	63	12.92	12.22	0	0.0
	120	125	12.70	12.06	0-0.5	0.0
	243	0	12.82	12.22		0.0
DFT-s-OFDM QPSK	1	1	12.67	12.65	0	0.0
	1	123	13.06	12.41		0.0
	1	243	12.70	12.12		0.0
	120	0	13.00	12.55	0-1	0.0
	120	63	13.13	12.45	0	0.0
	120	125	13.01	12.39	0-1	0.0
	243	0	13.10	12.47		0.0
DFT-s-OFDM 16QAM	1	1	12.75	12.63	0-1	0.0
CP-OFDM QPSK	1	1	12.77	12.62	0-1.5	0.0

Table 9-175
NR Band n41 Antenna B Measured P_{Limit} for DSI = 3 (Hotspot Mode) - 80 MHz Bandwidth

NR Band n41 80 MHz Bandwidth						
			Channel		MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	507204 (2536.02 MHz)	529998 (2649.99 MHz)		
			Conducted Power [dBm]			
DFT-s-OFDM π/2 BPSK	1	1	12.89	12.42	0	0.0
	1	109	13.17	12.17		0.0
	1	215	12.97	12.01		0.0
	108	0	13.27	12.30	0-0.5	0.0
	108	55	13.44	12.22	0	0.0
	108	109	13.33	12.07	0-0.5	0.0
	216	0	13.30	12.21		0.0
DFT-s-OFDM QPSK	1	1	13.15	12.59	0	0.0
	1	109	13.45	12.36		0.0
	1	215	12.89	12.14		0.0
	108	0	13.17	12.44	0-1	0.0
	108	55	13.29	12.40	0	0.0
	108	109	13.21	12.22	0-1	0.0
	216	0	13.17	12.30		0.0
DFT-s-OFDM 16QAM	1	1	13.10	12.60	0-1	0.0
CP-OFDM QPSK	1	1	13.15	12.56	0-1.5	0.0

Table 9-176
NR Band n41 Antenna B Measured P_{Limit} for DSI = 3 (Hotspot Mode) - 60 MHz Bandwidth

NR Band n41 60 MHz Bandwidth							
			Channel			MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	505200 (2526 MHz)	518598 (2592.99 MHz)	531996 (2659.98 MHz)		
			Conducted Power [dBm]				
DFT-s-OFDM π/2 BPSK	1	1	12.78	12.72	12.29	0	0.0
	1	81	13.20	12.55	12.08		0.0
	1	160	12.80	12.41	12.00		0.0
	81	0	12.89	12.66	12.22	0-0.5	0.0
	81	41	13.15	12.60	12.15	0	0.0
	81	81	13.19	12.45	12.10	0-0.5	0.0
	162	0	13.14	12.59	12.10		0.0
DFT-s-OFDM QPSK	1	1	12.99	13.00	12.45	0	0.0
	1	81	13.15	12.82	12.31		0.0
	1	160	13.07	12.68	12.21		0.0
	81	0	12.91	12.81	12.32	0-1	0.0
	81	41	13.09	12.79	12.32	0	0.0
	81	81	13.12	12.71	12.21	0-1	0.0
	162	0	13.01	12.84	12.26		0.0
DFT-s-OFDM 16QAM	1	1	13.01	12.99	12.54	0-1	0.0
CP-OFDM QPSK	1	1	12.99	12.99	12.24	0-1.5	0.0

Table 9-177
NR Band n41 Antenna B Measured P_{Limit} for DSI = 3 (Hotspot Mode) - 50 MHz Bandwidth

NR Band n41 50 MHz Bandwidth							
			Channel			MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	504204 (2521.02 MHz)	518598 (2592.99 MHz)	532998 (2664.99 MHz)		
			Conducted Power [dBm]				
DFT-s-OFDM π/2 BPSK	1	1	12.74	12.75	12.28	0	0.0
	1	67	13.20	12.62	12.15		0.0
	1	131	13.14	12.57	12.10		0.0
	64	0	12.85	12.68	12.17	0-0.5	0.0
	64	35	13.11	12.61	12.09	0	0.0
	64	69	12.98	12.49	12.03	0-0.5	0.0
	128	0	12.94	12.66	12.08		0.0
DFT-s-OFDM QPSK	1	1	13.00	12.91	12.40	0	0.0
	1	67	13.16	12.83	12.50		0.0
	1	131	13.30	12.85	12.20		0.0
	64	0	12.91	12.89	12.30	0-1	0.0
	64	35	13.16	12.80	12.29	0	0.0
	64	69	13.18	12.75	12.26	0-1	0.0
	128	0	12.98	12.78	12.22		0.0
DFT-s-OFDM 16QAM	1	1	13.12	13.02	12.51	0-1	0.0
CP-OFDM QPSK	1	1	13.05	12.99	12.40	0-1.5	0.0

Table 9-178
NR Band n41 Antenna B Measured P_{Limit} for DSI = 3 (Hotspot Mode) - 40 MHz Bandwidth

NR Band n41 40 MHz Bandwidth								
			Channel				MPR Allowed per 3GPP [dB]	MPR Allowed per 3GPP [dB]
Modulation	RB Size	RB Offset	503202 (2516.01 MHz)	513468 (2567.34 MHz)	523734 (2618.67 MHz)	534000 (2670 MHz)		
			Conducted Power [dBm]					
DFT-s-OFDM π/2 BPSK	1	1	13.24	13.36	12.88	12.67	0	0.0
	1	53	13.43	13.13	12.70	12.44		0.0
	1	104	13.57	13.20	12.73	12.54		0.0
	50	0	13.29	13.36	13.02	12.67	0-0.5	0.0
	50	28	13.42	13.22	12.90	12.55	0	0.0
	50	56	13.55	13.20	12.69	12.60	0-0.5	0.0
	100	0	13.48	13.25	12.79	12.65		0.0
DFT-s-OFDM QPSK	1	1	13.28	13.38	13.15	12.80	0	0.0
	1	53	13.21	13.20	12.87	12.53		0.0
	1	104	13.41	13.23	12.85	12.64		0.0
	50	0	13.13	13.25	12.97	12.61	0-1	0.0
	50	28	13.32	13.23	12.80	12.60	0	0.0
	50	56	13.40	13.20	12.84	12.55	0-1	0.0
	100	0	13.29	13.18	12.85	12.54		0.0
DFT-s-OFDM 16QAM	1	1	13.42	13.47	13.15	12.76	0-1	0.0
CP-OFDM QPSK	1	1	13.25	13.68	13.10	12.75	0-1.5	0.0

Table 9-179
NR Band n41 Antenna B Measured P_{Limit} for DSI = 3 (Hotspot Mode) - 30 MHz Bandwidth

NR Band n41 30 MHz Bandwidth									
			Channel					MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	502200 (2511 MHz)	510402 (2552.01 MHz)	518598 (2592.99 MHz)	526800 (2634 MHz)	534996 (2674.98 MHz)		
			Conducted Power [dBm]						
DFT-s-OFDM π/2 BPSK	1	1	13.21	13.36	13.03	12.74	12.45	0	0.0
	1	39	13.47	13.23	12.87	12.57	12.35		0.0
	1	76	13.58	13.47	13.01	12.59	12.35		0.0
	36	0	13.31	13.41	12.97	12.62	12.48	0-0.5	0.0
	36	21	13.36	13.33	12.85	12.56	12.50	0	0.0
	36	42	13.47	13.33	12.86	12.55	12.53	0-0.5	0.0
	75	0	13.34	13.42	12.96	12.59	12.58		0.0
DFT-s-OFDM QPSK	1	1	13.21	13.51	13.13	12.91	12.74	0	0.0
	1	39	13.21	13.31	13.03	12.81	12.56		0.0
	1	76	13.52	13.38	13.12	12.73	12.60		0.0
	36	0	13.16	13.32	13.08	12.77	12.63	0-1	0.0
	36	21	13.21	13.29	12.99	12.64	12.61	0	0.0
	36	42	13.30	13.29	12.99	12.65	12.55	0-1	0.0
	75	0	13.25	13.25	12.97	12.71	12.56		0.0
DFT-s-OFDM 16QAM	1	1	13.19	13.58	13.18	12.96	12.83	0-1	0.0
CP-OFDM QPSK	1	1	13.25	13.49	13.27	13.01	12.68	0-1.5	0.0

Table 9-180
NR Band n41 Antenna B Measured P_{Limit} for DSI = 3 (Hotspot Mode) - 20 MHz Bandwidth

NR Band n41 20 MHz Bandwidth									
			Channel					MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	501204 (2506.02 MHz)	509898 (2549.49 MHz)	518598 (2592.99 MHz)	527298 (2636.49 MHz)	535998 (2679.99 MHz)		
			Conducted Power [dBm]						
DFT-s-OFDM π/2 BPSK	1	1	12.89	12.84	12.70	12.41	12.16	0	0.0
	1	26	13.01	12.79	12.77	12.31	12.06		0.0
	1	49	12.88	12.89	12.67	12.24	12.05		0.0
	25	0	12.84	12.90	12.65	12.45	12.08	0-0.5	0.0
	25	13	13.11	12.85	12.59	12.28	12.05	0	0.0
	25	26	12.89	12.87	12.57	12.25	12.04	0-0.5	0.0
	50	0	12.85	12.89	12.60	12.32	12.07		0.0
DFT-s-OFDM QPSK	1	1	12.90	13.10	12.90	12.57	12.30	0	0.0
	1	26	12.82	13.05	12.78	12.48	12.24		0.0
	1	49	13.07	12.99	12.72	12.51	12.31		0.0
	25	0	12.88	13.05	12.86	12.49	12.28	0-1	0.0
	25	13	12.89	12.99	12.75	12.47	12.21	0	0.0
	25	26	12.89	13.06	12.81	12.45	12.18	0-1	0.0
	50	0	12.77	12.99	12.85	12.50	12.14		0.0
DFT-s-OFDM 16QAM	1	1	12.94	13.21	13.02	12.79	12.45	0-1	0.0
CP-OFDM QPSK	1	1	12.88	13.18	12.85	12.68	12.38	0-1.5	0.0

Table 9-181
NR Band n41 Antenna B Measured P_{Limit} for DSI = 1 (Phablet with Grip Sensor Active) and/or DSI = 4 (Earjack Active) - 100 MHz Bandwidth

NR Band n41 100 MHz Bandwidth					
			Channel		
Modulation	RB Size	RB Offset	518598 (2592.99 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
DFT-s-OFDM π/2 BPSK	1	1	14.57	0	0.0
	1	137	14.65		0.0
	1	271	14.59		0.0
	135	0	14.59	0-0.5	0.0
	135	69	14.54	0	0.0
	135	138	14.58	0-0.5	0.0
	270	0	14.63		0.0
DFT-s-OFDM QPSK	1	1	14.51	0	0.0
	1	137	14.58		0.0
	1	271	**14.63**		0.0
	135	0	14.56	0-1	0.0
	135	69	**14.62**	0	0.0
	135	138	14.56	0-1	0.0
	270	0	14.61		0.0
DFT-s-OFDM 16QAM	1	1	14.42	0-1	0.0
CP-OFDM QPSK	1	1	14.60	0-1.5	0.0

Note: NR Band n41 Antenna B at 100 MHz bandwidth does 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.

Table 9-182
NR Band n41 Antenna B Measured P_{Limit} for DSI = 1 (Phablet with Grip Sensor Active) and/or DSI = 4 (Earjack Active) - 90 MHz Bandwidth

NR Band n41 90 MHz Bandwidth						
			Channel			
Modulation	RB Size	RB Offset	508200 (2541 MHz)	528996 (2644.98 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]			
DFT-s-OFDM π/2 BPSK	1	1	13.87	13.61	0	0.0
	1	123	14.25	13.51		0.0
	1	243	13.86	13.27		0.0
	120	0	14.20	13.67	0-0.5	0.0
	120	63	14.28	13.53	0	0.0
	120	125	14.10	13.43	0-0.5	0.0
	243	0	14.20	13.53		0.0
DFT-s-OFDM QPSK	1	1	13.96	13.61	0	0.0
	1	123	14.25	13.50		0.0
	1	243	13.72	13.08		0.0
	120	0	14.06	13.57	0-1	0.0
	120	63	14.15	13.46	0	0.0
	120	125	13.94	13.34	0-1	0.0
	243	0	14.02	13.42		0.0
DFT-s-OFDM 16QAM	1	1	13.78	13.55	0-1	0.0
CP-OFDM QPSK	1	1	13.99	13.58	0-1.5	0.0

Table 9-183
NR Band n41 Antenna B Measured P_{Limit} for DSI = 1 (Phablet with Grip Sensor Active) and/or DSI = 4 (Earjack Active) - 80 MHz Bandwidth

NR Band n41 80 MHz Bandwidth						
			Channel		MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	507204 (2536.02 MHz)	529998 (2649.99 MHz)		
			Conducted Power [dBm]			
DFT-s-OFDM π/2 BPSK	1	1	14.05	13.78	0	0.0
	1	109	14.37	13.49		0.0
	1	215	14.01	13.36		0.0
	108	0	14.20	13.64	0-0.5	0.0
	108	55	14.26	13.52	0	0.0
	108	109	14.21	13.48	0-0.5	0.0
	216	0	14.21	13.58		0.0
DFT-s-OFDM QPSK	1	1	14.12	13.78	0	0.0
	1	109	14.24	13.45		0.0
	1	215	13.83	13.26		0.0
	108	0	14.10	13.49	0-1	0.0
	108	55	14.20	13.45	0	0.0
	108	109	14.10	13.41	0-1	0.0
	216	0	14.09	13.45		0.0
DFT-s-OFDM 16QAM	1	1	14.01	13.71	0-1	0.0
CP-OFDM QPSK	1	1	14.20	13.81	0-1.5	0.0

Table 9-184
NR Band n41 Antenna B Measured P_{Limit} for DSI = 1 (Phablet with Grip Sensor Active) and/or DSI = 4 (Earjack Active) - 60 MHz Bandwidth

NR Band n41 60 MHz Bandwidth							
			Channel			MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	505200 (2526 MHz)	518598 (2592.99 MHz)	531996 (2659.98 MHz)		
			Conducted Power [dBm]				
DFT-s-OFDM π/2 BPSK	1	1	14.10	14.01	13.32	0	0.0
	1	81	14.26	13.85	13.28		0.0
	1	160	14.19	13.76	13.36		0.0
	81	0	14.17	13.92	13.45	0-0.5	0.0
	81	41	14.30	13.91	13.45	0	0.0
	81	81	14.35	13.88	13.39	0-0.5	0.0
	162	0	14.28	13.91	13.43		0.0
DFT-s-OFDM QPSK	1	1	14.01	14.00	13.46	0	0.0
	1	81	14.15	13.83	13.37		0.0
	1	160	13.99	13.69	13.31		0.0
	81	0	14.04	13.85	13.39	0-1	0.0
	81	41	14.18	13.85	13.35	0	0.0
	81	81	14.26	13.73	13.36	0-1	0.0
	162	0	14.20	13.76	13.35		0.0
DFT-s-OFDM 16QAM	1	1	14.05	14.11	13.45	0-1	0.0
CP-OFDM QPSK	1	1	14.09	13.98	13.48	0-1.5	0.0

Table 9-185
NR Band n41 Antenna B Measured P_{Limit} for DSI = 1 (Phablet with Grip Sensor Active) and/or DSI = 4 (Earjack Active) - 50 MHz Bandwidth

NR Band n41 50 MHz Bandwidth							
			Channel			MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	504204 (2521.02 MHz)	518598 (2592.99 MHz)	532998 (2664.99 MHz)		
			Conducted Power [dBm]				
DFT-s-OFDM π/2 BPSK	1	1	14.18	13.83	13.62	0	0.0
	1	67	14.35	13.80	13.54		0.0
	1	131	14.55	13.79	13.50		0.0
	64	0	14.19	13.88	13.49	0-0.5	0.0
	64	35	14.37	13.89	13.47	0	0.0
	64	69	14.43	13.85	13.47	0-0.5	0.0
	128	0	14.25	13.91	13.50		0.0
DFT-s-OFDM QPSK	1	1	14.14	14.08	13.55	0	0.0
	1	67	14.24	13.92	13.31		0.0
	1	131	14.35	13.79	13.32		0.0
	64	0	14.05	13.90	13.33	0-1	0.0
	64	35	14.20	13.82	13.31	0	0.0
	64	69	14.31	13.77	13.29	0-1	0.0
	128	0	14.10	13.76	13.30		0.0
DFT-s-OFDM 16QAM	1	1	14.02	14.01	13.51	0-1	0.0
CP-OFDM QPSK	1	1	14.22	13.98	13.41	0-1.5	0.0

Table 9-186
NR Band n41 Antenna B Measured P_{Limit} for DSI = 1 (Phablet with Grip Sensor Active) and/or DSI = 4 (Earjack Active) - 40 MHz Bandwidth

NR Band n41 40 MHz Bandwidth								
			Channel				MPR Allowed per 3GPP [dB]	MPR Allowed per 3GPP [dB]
Modulation	RB Size	RB Offset	503202 (2516.01 MHz)	513468 (2567.34 MHz)	523734 (2618.67 MHz)	534000 (2670 MHz)		
			Conducted Power [dBm]					
DFT-s-OFDM π/2 BPSK	1	1	14.25	14.65	14.30	13.95	0	0.0
	1	53	14.50	14.42	14.07	13.77		0.0
	1	104	14.60	14.41	14.04	13.76		0.0
	50	0	14.31	14.38	14.07	13.68	0-0.5	0.0
	50	28	14.45	14.30	13.96	13.65	0	0.0
	50	56	14.53	14.37	14.02	13.64	0-0.5	0.0
	100	0	14.51	14.45	14.08	13.70		0.0
DFT-s-OFDM QPSK	1	1	14.32	14.53	14.22	13.75	0	0.0
	1	53	14.44	14.25	13.91	13.52		0.0
	1	104	14.60	14.25	13.87	13.56		0.0
	50	0	14.30	14.37	14.05	13.74	0-1	0.0
	50	28	14.45	14.27	13.90	13.60	0	0.0
	50	56	14.58	14.28	13.89	13.65	0-1	0.0
	100	0	14.52	14.32	13.99	13.69		0.0
DFT-s-OFDM 16QAM	1	1	14.41	14.57	14.14	13.88	0-1	0.0
CP-OFDM QPSK	1	1	14.99	14.77	14.32	14.00	0-1.5	0.0

Table 9-187
NR Band n41 Antenna B Measured P_{Limit} for DSI = 1 (Phablet with Grip Sensor Active) and/or DSI = 4 (Earjack Active) - 30 MHz Bandwidth

NR Band n41 30 MHz Bandwidth									
			Channel					MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	502200 (2511 MHz)	510402 (2552.01 MHz)	518598 (2592.99 MHz)	526800 (2634 MHz)	534996 (2674.98 MHz)		
			Conducted Power [dBm]						
DFT-s-OFDM π/2 BPSK	1	1	14.27	14.55	14.35	14.15	13.86		0.0
	1	39	14.46	14.35	14.15	13.94	13.66	0	0.0
	1	76	14.70	14.52	14.32	13.99	13.73		0.0
	36	0	14.31	14.45	14.27	13.89	13.64	0-0.5	0.0
	36	21	14.30	14.41	14.21	13.90	13.61	0	0.0
	36	42	14.44	14.50	14.22	13.91	13.64	0-0.5	0.0
	75	0	14.35	14.54	14.27	13.95	13.64		0.0
DFT-s-OFDM QPSK	1	1	14.30	14.60	14.33	14.06	13.79		0.0
	1	39	14.31	14.40	14.03	13.70	13.57	0	0.0
	1	76	14.58	14.36	14.07	13.84	13.64		0.0
	36	0	14.30	14.43	14.11	13.85	13.61	0-1	0.0
	36	21	14.37	14.30	14.02	13.76	13.48	0	0.0
	36	42	14.50	14.35	14.05	13.74	13.53	0-1	0.0
	75	0	14.42	14.41	14.12	13.81	13.62		0.0
DFT-s-OFDM 16QAM	1	1	14.40	14.42	14.32	13.95	13.76	0-1	0.0
CP-OFDM QPSK	1	1	14.47	14.60	14.46	13.85	13.77	0-1.5	0.0

Table 9-188
NR Band n41 Antenna B Measured P_{Limit} for DSI = 1 (Phablet with Grip Sensor Active) and/or DSI = 4 (Earjack Active) - 20 MHz Bandwidth

NR Band n41 20 MHz Bandwidth									
			Channel					MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	501204 (2506.02 MHz)	509898 (2549.49 MHz)	518598 (2592.99 MHz)	527298 (2636.49 MHz)	535998 (2679.99 MHz)		
			Conducted Power [dBm]						
DFT-s-OFDM π/2 BPSK	1	1	14.18	14.22	13.99	13.58	13.52		0.0
	1	26	14.05	14.16	13.88	13.46	13.42	0	0.0
	1	49	14.25	14.22	13.95	13.52	13.53		0.0
	25	0	14.18	14.21	13.99	13.65	13.42	0-0.5	0.0
	25	13	14.11	14.24	13.92	13.60	13.42	0	0.0
	25	26	14.20	14.17	13.90	13.55	13.41	0-0.5	0.0
	50	0	14.10	14.18	13.94	13.59	13.47		0.0
DFT-s-OFDM QPSK	1	1	14.02	14.22	14.02	13.65	13.49		0.0
	1	26	13.97	14.02	13.80	13.58	13.26	0	0.0
	1	49	14.19	14.00	13.90	13.59	13.33		0.0
	25	0	14.05	14.09	13.90	13.50	13.35	0-1	0.0
	25	13	14.02	14.12	13.90	13.61	13.33	0	0.0
	25	26	14.10	14.04	13.86	13.56	13.30	0-1	0.0
	50	0	14.01	14.07	13.82	13.51	13.37		0.0
DFT-s-OFDM 16QAM	1	1	14.01	14.20	13.94	13.54	13.35	0-1	0.0
CP-OFDM QPSK	1	1	14.05	14.20	13.95	13.76	13.45	0-1.5	0.0

9.3.23 NR Band n41 Antenna E

Table 9-189

NR Band n41 Antenna E Measured P_{Limit} for DSI = 0 (Body-worn, or Phablet with grip sensor inactive), or DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack Active) - 100 MHz Bandwidth

NR Band n41 100 MHz Bandwidth					
			Channel		
Modulation	RB Size	RB Offset	518598 (2592.99 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
DFT-s-OFDM π/2 BPSK	1	1	17.06	0	0.0
	1	137	17.03		0.0
	1	271	16.88		0.0
	135	0	17.10	0-0.5	0.0
	135	69	17.05	0	0.0
	135	138	17.04	0-0.5	0.0
	270	0	17.04		0.0
DFT-s-OFDM QPSK	1	1	17.07	0	0.0
	1	137	**17.20**		0.0
	1	271	16.99		0.0
	135	0	16.66	0-1	0.0
	135	69	**17.09**	0	0.0
	135	138	16.63	0-1	0.0
	270	0	16.60		0.0
DFT-s-OFDM 16QAM	1	1	16.85	0-1	0.0
CP-OFDM QPSK	1	1	16.01	0-1.5	0.5

Note: NR Band n41 Antenna E at 100 MHz bandwidth does 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.

Table 9-190

NR Band n41 Antenna E Measured P_{Limit} for DSI = 0 (Body-worn, or Phablet with grip sensor inactive), or DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack Active) - 90 MHz Bandwidth

NR Band n41 90 MHz Bandwidth						
Modulation	RB Size	RB Offset	508200 (2541 MHz)	528996 (2644.98 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
DFT-s-OFDM π/2 BPSK	1	1	17.32	17.17	0	0.0
	1	123	17.16	17.25		0.0
	1	243	17.09	16.94		0.0
	120	0	17.32	17.25	0-0.5	0.0
	120	63	17.22	17.27	0	0.0
	120	125	17.28	17.22	0-0.5	0.0
	243	0	17.28	17.20		0.0
DFT-s-OFDM QPSK	1	1	17.48	17.25	0	0.0
	1	123	17.34	17.36		0.0
	1	243	17.18	17.01		0.0
	120	0	16.79	16.77	0-1	0.0
	120	63	17.12	17.28	0	0.0
	120	125	16.66	16.67	0-1	0.0
	243	0	16.61	16.75		0.0
DFT-s-OFDM 16QAM	1	1	17.07	16.95	0-1	0.0
CP-OFDM QPSK	1	1	15.99	16.10	0-1.5	0.5

Table 9-191
NR Band n41 Antenna E Measured P_{Limit} for DSI = 0 (Body-worn, or Phablet with grip sensor inactive), or DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack Active) - 80 MHz Bandwidth

NR Band n41 80 MHz Bandwidth						
			Channel		MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	507204 (2536.02 MHz)	529998 (2649.99 MHz)		
			Conducted Power [dBm]			
DFT-s-OFDM π/2 BPSK	1	1	17.58	17.47	0	0.0
	1	109	17.23	17.31		0.0
	1	215	17.32	17.13		0.0
	108	0	17.39	17.27	0-0.5	0.0
	108	55	17.32	17.23	0	0.0
	108	109	17.33	17.21	0-0.5	0.0
	216	0	17.28	17.23		0.0
DFT-s-OFDM QPSK	1	1	17.68	17.27	0	0.0
	1	109	17.34	17.26		0.0
	1	215	17.31	17.06		0.0
	108	0	16.95	16.80	0-1	0.0
	108	55	17.31	17.21	0	0.0
	108	109	16.84	16.69	0-1	0.0
	216	0	16.76	16.73		0.0
DFT-s-OFDM 16QAM	1	1	17.00	16.72	0-1	0.0
CP-OFDM QPSK	1	1	16.27	16.31	0-1.5	0.5

Table 9-192
NR Band n41 Antenna E Measured P_{Limit} for DSI = 0 (Body-worn, or Phablet with grip sensor inactive), or DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack Active) - 60 MHz Bandwidth

NR Band n41 60 MHz Bandwidth							
			Channel			MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	505200 (2526 MHz)	518598 (2592.99 MHz)	531996 (2659.98 MHz)		
			Conducted Power [dBm]				
DFT-s-OFDM π/2 BPSK	1	1	17.50	17.15	16.99	0	0.0
	1	81	17.35	17.16	17.02		0.0
	1	160	17.27	17.27	16.86		0.0
	81	0	17.45	17.13	17.00	0-0.5	0.0
	81	41	17.35	17.11	16.95	0	0.0
	81	81	17.31	17.13	17.00	0-0.5	0.0
	162	0	17.34	17.12	17.00		0.0
DFT-s-OFDM QPSK	1	1	17.64	17.12	17.02	0	0.0
	1	81	17.32	17.17	17.01		0.0
	1	160	17.31	17.20	16.89		0.0
	81	0	17.00	16.65	16.55	0-1	0.0
	81	41	17.37	17.11	16.99	0	0.0
	81	81	16.79	16.65	16.53	0-1	0.0
	162	0	16.84	16.61	16.52		0.0
DFT-s-OFDM 16QAM	1	1	16.96	16.99	16.73	0-1	0.0
CP-OFDM QPSK	1	1	16.15	16.09	16.08	0-1.5	0.5

Table 9-193
NR Band n41 Antenna E Measured P_{Limit} for DSI = 0 (Body-worn, or Phablet with grip sensor inactive), or DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack Active) - 50 MHz Bandwidth

NR Band n41 50 MHz Bandwidth							
			Channel			MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	504204 (2521.02 MHz)	518598 (2592.99 MHz)	532998 (2664.99 MHz)		
			Conducted Power [dBm]				
DFT-s-OFDM π/2 BPSK	1	1	17.35	17.14	17.12	0	0.0
	1	67	17.08	17.10	16.98		0.0
	1	131	17.06	17.13	16.93		0.0
	64	0	17.15	17.03	16.98	0-0.5	0.0
	64	35	17.05	17.02	16.96	0	0.0
	64	69	16.98	17.06	16.93	0-0.5	0.0
	128	0	17.05	17.07	16.97		0.0
DFT-s-OFDM QPSK	1	1	17.37	17.15	17.11	0	0.0
	1	67	17.05	17.01	16.97		0.0
	1	131	17.04	17.06	16.98		0.0
	64	0	16.60	16.60	16.55	0-1	0.0
	64	35	17.10	17.08	16.98	0	0.0
	64	69	16.52	16.59	16.44	0-1	0.0
	128	0	16.63	16.60	16.48		0.0
DFT-s-OFDM 16QAM	1	1	16.89	16.80	16.92	0-1	0.0
CP-OFDM QPSK	1	1	16.01	16.01	16.12	0-1.5	0.5

Table 9-194
NR Band n41 Antenna E Measured P_{Limit} for DSI = 0 (Body-worn, or Phablet with grip sensor inactive), or DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack Active) - 40 MHz Bandwidth

NR Band n41 40 MHz Bandwidth								
			Channel				MPR Allowed per 3GPP [dB]	MPR Allowed per 3GPP [dB]
Modulation	RB Size	RB Offset	503202 (2516.01 MHz)	513468 (2567.34 MHz)	523734 (2618.67 MHz)	534000 (2670 MHz)		
			Conducted Power [dBm]					
DFT-s-OFDM π/2 BPSK	1	1	17.18	16.95	16.86	16.84	0	0.0
	1	53	17.00	16.78	16.79	16.72		0.0
	1	104	17.04	16.89	16.89	16.80		0.0
	50	0	17.08	16.90	16.82	16.71	0-0.5	0.0
	50	28	16.98	16.81	16.79	16.70	0	0.0
	50	56	17.01	16.81	16.80	16.73	0-0.5	0.0
	100	0	17.06	16.81	16.85	16.75		0.0
DFT-s-OFDM QPSK	1	1	17.30	17.03	17.03	16.90	0	0.0
	1	53	17.10	16.85	16.88	16.75		0.0
	1	104	17.09	17.01	16.92	16.76		0.0
	50	0	17.07	16.87	16.83	16.72	0-1	0.0
	50	28	16.97	16.80	16.83	16.71	0	0.0
	50	56	16.98	16.81	16.87	16.72	0-1	0.0
	100	0	17.04	16.86	16.87	16.70		0.0
DFT-s-OFDM 16QAM	1	1	16.97	16.74	16.81	16.58	0-1	0.0
CP-OFDM QPSK	1	1	16.17	16.04	15.89	15.86	0-1.5	0.5

Table 9-195
NR Band n41 Antenna E Measured P_{Limit} for DSI = 0 (Body-worn, or Phablet with grip sensor inactive), or DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack Active) - 30 MHz Bandwidth

NR Band n41 30 MHz Bandwidth									
			Channel					MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	502200 (2511 MHz)	510402 (2552.01 MHz)	518598 (2592.99 MHz)	526800 (2634 MHz)	534996 (2674.98 MHz)		
			Conducted Power [dBm]						
DFT-s-OFDM π/2 BPSK	1	1	17.22	17.09	16.85	16.87	16.74	0	0.0
	1	39	17.17	16.91	16.78	16.78	16.57		0.0
	1	76	17.01	16.99	16.97	16.89	16.70		0.0
	36	0	17.10	16.91	16.77	16.76	16.59	0-0.5	0.0
	36	21	17.01	16.85	16.78	16.75	16.59	0	0.0
	36	42	17.01	16.92	16.81	16.80	16.68	0-0.5	0.0
	75	0	17.07	16.87	16.84	16.80	16.62		0.0
DFT-s-OFDM QPSK	1	1	17.35	17.05	16.98	16.91	16.74	0	0.0
	1	39	17.18	16.94	16.89	16.78	16.65		0.0
	1	76	17.02	17.07	17.03	16.89	16.61		0.0
	36	0	17.18	16.98	16.81	16.78	16.54	0-1	0.0
	36	21	17.12	16.87	16.86	16.71	16.46	0	0.0
	36	42	17.11	16.86	16.89	16.79	16.52	0-1	0.0
	75	0	17.12	16.97	16.86	16.78	16.51		0.0
DFT-s-OFDM 16QAM	1	1	17.00	16.75	16.94	16.90	16.88	0-1	0.0
CP-OFDM QPSK	1	1	16.11	16.07	16.01	15.91	15.90	0-1.5	0.5

Table 9-196
NR Band n41 Antenna E Measured P_{Limit} for DSI = 0 (Body-worn, or Phablet with grip sensor inactive), or DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack Active) - 20 MHz Bandwidth

NR Band n41 20 MHz Bandwidth									
			Channel					MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	501204 (2506.02 MHz)	509898 (2549.49 MHz)	518598 (2592.99 MHz)	527298 (2636.49 MHz)	535998 (2679.99 MHz)		
			Conducted Power [dBm]						
DFT-s-OFDM π/2 BPSK	1	1	16.80	16.54	16.32	16.29	16.32	0	0.0
	1	26	16.79	16.48	16.25	16.20	16.20		0.0
	1	49	16.83	16.44	16.19	16.05	16.33		0.0
	25	0	16.83	16.51	16.28	16.25	16.22	0-0.5	0.0
	25	13	16.75	16.41	16.32	16.32	16.21	0	0.0
	25	26	16.81	16.32	16.30	16.35	16.23	0-0.5	0.0
	50	0	16.82	16.43	16.25	16.32	16.20		0.0
DFT-s-OFDM QPSK	1	1	16.94	16.58	16.38	16.44	16.37	0	0.0
	1	26	16.84	16.48	16.30	16.31	16.31		0.0
	1	49	16.99	16.47	16.35	16.42	16.25		0.0
	25	0	16.78	16.55	16.26	16.37	16.30	0-1	0.0
	25	13	16.79	16.50	16.25	16.29	16.28	0	0.0
	25	26	16.79	16.43	16.26	16.36	16.20	0-1	0.0
	50	0	16.85	16.48	16.31	16.37	16.30		0.0
DFT-s-OFDM 16QAM	1	1	16.90	16.81	16.54	16.65	16.51	0-1	0.0
CP-OFDM QPSK	1	1	15.99	15.85	16.09	16.11	15.95	0-1.5	0.5

Table 9-197
NR Band n41 Antenna E Measured P_{Limit} for DSI = 2 (Head)- 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	14.07	0	0.0
	1	137	14.29		0.0
	1	271	13.79		0.0
	135	0	14.18	0-0.5	0.0
	135	69	14.16	0	0.0
	135	138	14.02	0-0.5	0.0
	270	0	14.11		0.0
DFT-s-OFDM QPSK	1	1	14.01	0	0.0
	1	137	**14.28**		0.0
	1	271	13.84		0.0
	135	0	**14.23**	0-1	0.0
	135	69	14.16	0	0.0
	135	138	14.01	0-1	0.0
	270	0	14.13		0.0
DFT-s-OFDM 16QAM	1	1	13.59	0-1	0.0
CP-OFDM QPSK	1	1	13.98	0-1.5	0.0

Note: NR Band n41 Antenna E at 100 MHz bandwidth does 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.

Table 9-198
NR Band n41 Antenna E Measured P_{Limit} for DSI = 2 (Head)- 90 MHz Bandwidth

NR Band n41 90 MHz Bandwidth						
			Channel		MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	508200 (2541 MHz)	528996 (2644.98 MHz)		
			Conducted Power [dBm]			
DFT-s-OFDM π/2 BPSK	1	1	14.44	14.03	0	0.0
	1	123	14.11	14.11		0.0
	1	243	14.03	13.84		0.0
	120	0	14.24	14.04	0-0.5	0.0
	120	63	14.15	14.05	0	0.0
	120	125	14.13	14.01	0-0.5	0.0
	243	0	14.11	13.97		0.0
DFT-s-OFDM QPSK	1	1	14.41	13.99	0	0.0
	1	123	14.15	14.08		0.0
	1	243	13.98	13.82		0.0
	120	0	14.26	14.11	0-1	0.0
	120	63	14.10	14.04	0	0.0
	120	125	14.13	14.06	0-1	0.0
	243	0	14.12	14.07		0.0
DFT-s-OFDM 16QAM	1	1	14.16	13.80	0-1	0.0
CP-OFDM QPSK	1	1	14.41	13.99	0-1.5	0.0

Table 9-199
NR Band n41 Antenna E Measured P_{Limit} for DSI = 2 (Head)- 80 MHz Bandwidth

NR Band n41 80 MHz Bandwidth						
			Channel		MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	507204 (2536.02 MHz)	529998 (2649.99 MHz)		
			Conducted Power [dBm]			
DFT-s-OFDM π/2 BPSK	1	1	14.53	14.04	0	0.0
	1	109	14.19	14.17		0.0
	1	215	14.15	13.88		0.0
	108	0	14.16	14.01	0-0.5	0.0
	108	55	14.14	14.08	0	0.0
	108	109	14.18	14.03	0-0.5	0.0
	216	0	14.15	14.06		0.0
DFT-s-OFDM QPSK	1	1	14.48	14.06	0	0.0
	1	109	14.19	14.09		0.0
	1	215	14.05	13.84		0.0
	108	0	14.27	14.04	0-1	0.0
	108	55	14.15	14.02	0	0.0
	108	109	14.13	13.98	0-1	0.0
	216	0	14.15	14.09		0.0
DFT-s-OFDM 16QAM	1	1	14.24	13.82	0-1	0.0
CP-OFDM QPSK	1	1	14.43	14.22	0-1.5	0.0

Table 9-200
NR Band n41 Antenna E Measured P_{Limit} for DSI = 2 (Head)- 60 MHz Bandwidth

NR Band n41 60 MHz Bandwidth							
			Channel			MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	505200 (2526 MHz)	518598 (2592.99 MHz)	531996 (2659.98 MHz)		
			Conducted Power [dBm]				
DFT-s-OFDM π/2 BPSK	1	1	14.48	14.10	13.95	0	0.0
	1	81	14.29	13.98	13.96		0.0
	1	160	14.13	14.04	13.87		0.0
	81	0	14.28	13.98	13.95	0-0.5	0.0
	81	41	14.16	13.93	13.88	0	0.0
	81	81	14.11	13.95	13.85	0-0.5	0.0
	162	0	14.20	13.95	13.87		0.0
DFT-s-OFDM QPSK	1	1	14.48	14.13	13.92	0	0.0
	1	81	14.16	13.94	13.92		0.0
	1	160	14.12	13.96	13.88		0.0
	81	0	14.33	13.95	13.90	0-1	0.0
	81	41	14.18	13.95	13.87	0	0.0
	81	81	14.14	13.97	13.92	0-1	0.0
	162	0	14.21	14.00	13.90		0.0
DFT-s-OFDM 16QAM	1	1	14.23	13.95	13.74	0-1	0.0
CP-OFDM QPSK	1	1	14.32	14.01	13.90	0-1.5	0.0

Table 9-201
NR Band n41 Antenna E Measured P_{Limit} for DSI = 2 (Head)- 50 MHz Bandwidth

NR Band n41 50 MHz Bandwidth							
			Channel			MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	504204 (2521.02 MHz)	518598 (2592.99 MHz)	532998 (2664.99 MHz)		
			Conducted Power [dBm]				
DFT-s-OFDM π/2 BPSK	1	1	14.53	13.82	13.95	0	0.0
	1	67	14.36	13.81	13.82		0.0
	1	131	14.22	13.84	13.76		0.0
	64	0	14.27	13.74	13.79	0-0.5	0.0
	64	35	14.07	13.69	13.77	0	0.0
	64	69	13.99	13.68	13.72	0-0.5	0.0
	128	0	13.90	13.61	13.78		0.0
DFT-s-OFDM QPSK	1	1	14.29	13.77	13.87	0	0.0
	1	67	14.11	13.71	13.77		0.0
	1	131	14.00	13.82	13.74		0.0
	64	0	14.24	13.72	13.78	0-1	0.0
	64	35	14.11	13.66	13.67	0	0.0
	64	69	14.03	13.69	13.68	0-1	0.0
	128	0	14.05	13.70	13.68		0.0
DFT-s-OFDM 16QAM	1	1	14.28	13.84	13.89	0-1	0.0
CP-OFDM QPSK	1	1	14.47	13.78	13.90	0-1.5	0.0

Table 9-202
NR Band n41 Antenna E Measured P_{Limit} for DSI = 2 (Head)- 40 MHz Bandwidth

NR Band n41 40 MHz Bandwidth								
			Channel				MPR Allowed per 3GPP [dB]	MPR Allowed per 3GPP [dB]
Modulation	RB Size	RB Offset	503202 (2516.01 MHz)	513468 (2567.34 MHz)	523734 (2618.67 MHz)	534000 (2670 MHz)		
			Conducted Power [dBm]					
DFT-s-OFDM π/2 BPSK	1	1	14.70	14.41	14.42	14.39	0	0.0
	1	53	14.50	14.46	14.35	14.25		0.0
	1	104	14.50	14.49	14.43	14.24		0.0
	50	0	14.50	14.44	14.33	14.27	0-0.5	0.0
	50	28	14.40	14.36	14.25	14.20	0	0.0
	50	56	14.45	14.43	14.34	14.19	0-0.5	0.0
	100	0	14.43	14.41	14.33	14.26		0.0
DFT-s-OFDM QPSK	1	1	14.73	14.42	14.46	14.39	0	0.0
	1	53	14.52	14.34	14.27	14.17		0.0
	1	104	14.48	14.45	14.29	14.26		0.0
	50	0	14.54	14.43	14.35	14.35	0-1	0.0
	50	28	14.42	14.38	14.25	14.24	0	0.0
	50	56	14.55	14.38	14.35	14.28	0-1	0.0
	100	0	14.55	14.38	14.37	14.27		0.0
DFT-s-OFDM 16QAM	1	1	14.57	14.45	14.38	14.32	0-1	0.0
CP-OFDM QPSK	1	1	14.74	14.46	14.57	14.30	0-1.5	0.0

Table 9-203
NR Band n41 Antenna E Measured P_{Limit} for DSI = 2 (Head)- 30 MHz Bandwidth

NR Band n41 30 MHz Bandwidth									
			Channel					MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	502200 (2511 MHz)	510402 (2552.01 MHz)	518598 (2592.99 MHz)	526800 (2634 MHz)	534996 (2674.98 MHz)		
			Conducted Power [dBm]						
DFT-s-OFDM π/2 BPSK	1	1	14.75	14.56	14.42	14.37	14.37	0	0.0
	1	39	14.61	14.40	14.35	14.27	14.21		0.0
	1	76	14.58	14.56	14.59	14.38	14.22		0.0
	36	0	14.55	14.31	14.31	14.21	14.21	0-0.5	0.0
	36	21	14.43	14.38	14.30	14.17	14.15	0	0.0
	36	42	14.45	14.45	14.33	14.29	14.19	0-0.5	0.0
	75	0	14.51	14.30	14.33	14.30	14.29		0.0
DFT-s-OFDM QPSK	1	1	14.69	14.40	14.40	14.38	14.33	0	0.0
	1	39	14.47	14.46	14.32	14.22	14.12		0.0
	1	76	14.61	14.46	14.48	14.38	14.25		0.0
	36	0	14.58	14.36	14.39	14.24	14.25	0-1	0.0
	36	21	14.40	14.35	14.32	14.23	14.21	0	0.0
	36	42	14.48	14.48	14.33	14.30	14.14	0-1	0.0
	75	0	14.54	14.35	14.32	14.23	14.22		0.0
DFT-s-OFDM 16QAM	1	1	14.70	14.40	14.40	14.33	14.50	0-1	0.0
CP-OFDM QPSK	1	1	14.60	14.45	14.33	14.40	14.32	0-1.5	0.0

Table 9-204
NR Band n41 Antenna E Measured P_{Limit} for DSI = 2 (Head)- 20 MHz Bandwidth

NR Band n41 20 MHz Bandwidth									
			Channel					MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	501204 (2506.02 MHz)	509898 (2549.49 MHz)	518598 (2592.99 MHz)	527298 (2636.49 MHz)	535998 (2679.99 MHz)		
			Conducted Power [dBm]						
DFT-s-OFDM π/2 BPSK	1	1	14.35	14.04	13.99	14.00	13.91	0	0.0
	1	26	14.28	13.99	13.90	13.82	13.68		0.0
	1	49	14.19	14.12	13.94	13.92	13.74		0.0
	25	0	14.28	13.93	13.88	13.86	13.75	0-0.5	0.0
	25	13	14.22	14.01	13.88	13.80	13.71	0	0.0
	25	26	14.17	13.98	13.88	13.80	13.75	0-0.5	0.0
	50	0	14.23	13.85	13.91	13.85	13.77		0.0
DFT-s-OFDM QPSK	1	1	14.30	13.96	13.90	13.92	13.81	0	0.0
	1	26	14.05	13.95	13.83	13.72	13.67		0.0
	1	49	14.25	13.99	13.96	13.82	13.75		0.0
	25	0	14.28	13.91	13.94	13.87	13.80	0-1	0.0
	25	13	14.20	13.96	13.88	13.81	13.75	0	0.0
	25	26	14.19	13.95	13.88	13.90	13.77	0-1	0.0
	50	0	14.30	13.97	13.91	13.81	13.79		0.0
DFT-s-OFDM 16QAM	1	1	14.27	13.89	13.99	13.93	13.88	0-1	0.0
CP-OFDM QPSK	1	1	14.33	14.07	14.03	13.92	13.85	0-1.5	0.0

Table 9-205
NR Band n41 Antenna E Measured P_{Limit} for DSI = 3 (Hotspot Mode) - 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	15.16	0	0.0
	1	137	15.38		0.0
	1	271	14.91		0.0
	135	0	15.38	0-0.5	0.0
	135	69	15.39	0	0.0
	135	138	15.23	0-0.5	0.0
	270	0	15.32		0.0
DFT-s-OFDM QPSK	1	1	15.24	0	0.0
	1	137	**15.46**		0.0
	1	271	14.93		0.0
	135	0	**15.31**	0-1	0.0
	135	69	15.24	0	0.0
	135	138	15.06	0-1	0.0
	270	0	15.18		0.0
DFT-s-OFDM 16QAM	1	1	14.63	0-1	0.0
CP-OFDM QPSK	1	1	15.12	0-1.5	0.0

Note: NR Band n41 Antenna E at 100 MHz bandwidth does 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.

Table 9-206
NR Band n41 Antenna E Measured P_{Limit} for DSI = 3 (Hotspot Mode) - 90 MHz Bandwidth

NR Band n41 90 MHz Bandwidth						
			Channel		MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	508200 (2541 MHz)	528996 (2644.98 MHz)		
			Conducted Power [dBm]			
DFT-s-OFDM π/2 BPSK	1	1	15.32	14.89	0	0.0
	1	123	15.06	14.99		0.0
	1	243	14.95	14.77		0.0
	120	0	15.20	14.97	0-0.5	0.0
	120	63	15.07	15.00	0	0.0
	120	125	15.04	14.94	0-0.5	0.0
	243	0	15.01	14.96		0.0
DFT-s-OFDM QPSK	1	1	15.26	14.95	0	0.0
	1	123	15.10	14.92		0.0
	1	243	14.92	14.69		0.0
	120	0	15.19	14.99	0-1	0.0
	120	63	15.06	14.98	0	0.0
	120	125	15.04	14.97	0-1	0.0
	243	0	15.01	14.99		0.0
DFT-s-OFDM 16QAM	1	1	15.04	14.76	0-1	0.0
CP-OFDM QPSK	1	1	15.23	15.00	0-1.5	0.0

Table 9-207
NR Band n41 Antenna E Measured P_{Limit} for DSI = 3 (Hotspot Mode) - 80 MHz Bandwidth

NR Band n41 80 MHz Bandwidth						
			Channel		MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	507204 (2536.02 MHz)	529998 (2649.99 MHz)		
			Conducted Power [dBm]			
DFT-s-OFDM π/2 BPSK	1	1	15.45	15.00	0	0.0
	1	109	15.20	15.01		0.0
	1	215	15.07	14.80		0.0
	108	0	15.20	15.00	0-0.5	0.0
	108	55	15.06	14.97	0	0.0
	108	109	15.13	14.94	0-0.5	0.0
	216	0	15.03	15.01		0.0
DFT-s-OFDM QPSK	1	1	15.16	14.99	0	0.0
	1	109	14.86	15.02		0.0
	1	215	14.85	14.75		0.0
	108	0	15.21	15.00	0-1	0.0
	108	55	15.09	14.98	0	0.0
	108	109	15.16	14.95	0-1	0.0
	216	0	15.12	15.00		0.0
DFT-s-OFDM 16QAM	1	1	15.25	14.85	0-1	0.0
CP-OFDM QPSK	1	1	15.48	15.10	0-1.5	0.0

Table 9-208
NR Band n41 Antenna E Measured P_{Limit} for DSI = 3 (Hotspot Mode) - 60 MHz Bandwidth

NR Band n41 60 MHz Bandwidth							
			Channel			MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	505200 (2526 MHz)	518598 (2592.99 MHz)	531996 (2659.98 MHz)		
			Conducted Power [dBm]				
DFT-s-OFDM π/2 BPSK	1	1	15.50	15.10	14.85	0	0.0
	1	81	15.23	14.99	14.83		0.0
	1	160	15.12	15.01	14.65		0.0
	81	0	15.27	14.98	14.84	0-0.5	0.0
	81	41	15.18	14.93	14.88	0	0.0
	81	81	15.16	14.96	14.83	0-0.5	0.0
	162	0	15.16	14.97	14.90		0.0
DFT-s-OFDM QPSK	1	1	15.47	14.98	14.90	0	0.0
	1	81	15.17	14.90	14.84		0.0
	1	160	15.07	15.01	14.78		0.0
	81	0	15.25	14.95	14.92	0-1	0.0
	81	41	15.20	14.95	14.89	0	0.0
	81	81	15.18	14.95	14.88	0-1	0.0
	162	0	15.23	14.99	14.88		0.0
DFT-s-OFDM 16QAM	1	1	15.31	14.79	14.71	0-1	0.0
CP-OFDM QPSK	1	1	15.46	14.95	15.02	0-1.5	0.0

Table 9-209
NR Band n41 Antenna E Measured P_{Limit} for DSI = 3 (Hotspot Mode) - 50 MHz Bandwidth

NR Band n41 50 MHz Bandwidth							
			Channel			MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	504204 (2521.02 MHz)	518598 (2592.99 MHz)	532998 (2664.99 MHz)		
			Conducted Power [dBm]				
DFT-s-OFDM π/2 BPSK	1	1	15.28	14.99	14.96	0	0.0
	1	67	15.26	14.92	14.86		0.0
	1	131	15.18	15.06	14.87		0.0
	64	0	15.22	14.97	14.86	0-0.5	0.0
	64	35	15.18	14.90	14.84	0	0.0
	64	69	15.10	14.89	14.80	0-0.5	0.0
	128	0	15.21	15.00	14.85		0.0
DFT-s-OFDM QPSK	1	1	15.46	14.95	14.89	0	0.0
	1	67	15.23	14.89	14.85		0.0
	1	131	15.18	15.02	14.83		0.0
	64	0	15.32	15.00	14.89	0-1	0.0
	64	35	15.22	14.96	14.87	0	0.0
	64	69	15.15	14.95	14.80	0-1	0.0
	128	0	15.21	14.95	14.91		0.0
DFT-s-OFDM 16QAM	1	1	15.22	14.81	14.71	0-1	0.0
CP-OFDM QPSK	1	1	15.42	15.09	14.97	0-1.5	0.0

Table 9-210
NR Band n41 Antenna E Measured P_{Limit} for DSI = 3 (Hotspot Mode) - 40 MHz Bandwidth

NR Band n41 40 MHz Bandwidth								
			Channel				MPR Allowed per 3GPP [dB]	MPR Allowed per 3GPP [dB]
Modulation	RB Size	RB Offset	503202 (2516.01 MHz)	513468 (2567.34 MHz)	523734 (2618.67 MHz)	534000 (2670 MHz)		
			Conducted Power [dBm]					
DFT-s-OFDM π/2 BPSK	1	1	15.85	15.45	15.60	15.58	0	0.0
	1	53	15.61	15.30	15.45	15.30		0.0
	1	104	15.70	15.47	15.49	15.40		0.0
	50	0	15.64	15.39	15.41	15.39	0-0.5	0.0
	50	28	15.48	15.36	15.33	15.34	0	0.0
	50	56	15.57	15.42	15.41	15.36	0-0.5	0.0
	100	0	15.54	15.43	15.44	15.45		0.0
DFT-s-OFDM QPSK	1	1	15.78	15.43	15.56	15.53	0	0.0
	1	53	15.55	15.35	15.41	15.35		0.0
	1	104	15.60	15.47	15.45	15.25		0.0
	50	0	15.63	15.46	15.46	15.44	0-1	0.0
	50	28	15.50	15.45	15.41	15.40	0	0.0
	50	56	15.55	15.48	15.44	15.40	0-1	0.0
	100	0	15.62	15.51	15.50	15.44		0.0
DFT-s-OFDM 16QAM	1	1	15.56	15.20	15.32	15.29	0-1	0.0
CP-OFDM QPSK	1	1	15.80	15.51	15.52	15.49	0-1.5	0.0

Table 9-211
NR Band n41 Antenna E Measured P_{Limit} for DSI = 3 (Hotspot Mode) - 30 MHz Bandwidth

NR Band n41 30 MHz Bandwidth									
			Channel					MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	502200 (2511 MHz)	510402 (2552.01 MHz)	518598 (2592.99 MHz)	526800 (2634 MHz)	534996 (2674.98 MHz)		
			Conducted Power [dBm]						
DFT-s-OFDM π/2 BPSK	1	1	15.88	15.65	15.55	15.49	15.55	0	0.0
	1	39	15.66	15.63	15.51	15.39	15.44		0.0
	1	76	15.84	15.76	15.57	15.54	15.51		0.0
	36	0	15.70	15.49	15.45	15.45	15.33	0-0.5	0.0
	36	21	15.61	15.51	15.38	15.35	15.34	0	0.0
	36	42	15.61	15.62	15.50	15.45	15.36	0-0.5	0.0
	75	0	15.66	15.48	15.41	15.40	15.34		0.0
DFT-s-OFDM QPSK	1	1	15.93	15.56	15.55	15.48	15.51	0	0.0
	1	39	15.64	15.49	15.35	15.39	15.39		0.0
	1	76	15.76	15.56	15.55	15.50	15.42		0.0
	36	0	15.75	15.48	15.42	15.41	15.40	0-1	0.0
	36	21	15.68	15.44	15.37	15.39	15.35	0	0.0
	36	42	15.62	15.54	15.42	15.42	15.35	0-1	0.0
	75	0	15.75	15.41	15.42	15.40	15.41		0.0
DFT-s-OFDM 16QAM	1	1	15.60	15.25	15.34	15.31	15.40	0-1	0.0
CP-OFDM QPSK	1	1	15.90	15.55	15.64	15.56	15.58	0-1.5	0.0

Table 9-212
NR Band n41 Antenna E Measured P_{Limit} for DSI = 3 (Hotspot Mode) - 20 MHz Bandwidth

NR Band n41 20 MHz Bandwidth									
			Channel					MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	501204 (2506.02 MHz)	509898 (2549.49 MHz)	518598 (2592.99 MHz)	527298 (2636.49 MHz)	535998 (2679.99 MHz)		
			Conducted Power [dBm]						
DFT-s-OFDM π/2 BPSK	1	1	15.56	15.17	15.15	15.17	15.00	0	0.0
	1	26	15.42	15.14	15.05	14.98	14.88		0.0
	1	49	15.30	15.23	15.14	15.10	14.90		0.0
	25	0	15.38	15.07	15.04	15.06	14.90	0-0.5	0.0
	25	13	15.34	15.10	15.05	14.97	14.88	0	0.0
	25	26	15.29	15.10	14.99	14.99	14.86	0-0.5	0.0
	50	0	15.40	15.05	15.05	15.03	14.87		0.0
DFT-s-OFDM QPSK	1	1	15.45	15.01	15.08	14.99	15.01	0	0.0
	1	26	15.42	15.05	15.04	14.99	14.85		0.0
	1	49	15.35	15.11	15.05	14.94	14.90		0.0
	25	0	15.48	15.09	15.07	15.01	14.93	0-1	0.0
	25	13	15.40	15.12	15.05	15.00	14.91	0	0.0
	25	26	15.36	15.08	15.07	15.03	14.88	0-1	0.0
	50	0	15.39	14.97	15.11	15.02	14.91		0.0
DFT-s-OFDM 16QAM	1	1	15.48	14.87	14.92	14.84	14.79	0-1	0.0
CP-OFDM QPSK	1	1	15.54	15.18	15.07	15.04	14.99	0-1.5	0.0

9.3.24 NR Band n77

Table 9-213
NR Band n77 Measured P_{Limit} for DSI = 0 (Body-worn, or Phablet with grip sensor inactive), or DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack Active) - 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	19.05	19.90	0	0.0
	1	137	19.75	20.35		0.0
	1	271	20.03	20.34		0.0
	135	0	18.95	19.74	0-0.5	0.5
	135	69	19.73	20.33	0	0.0
	135	138	19.47	19.81	0-0.5	0.5
	270	0	19.20	19.75		0.5
DFT-s-OFDM QPSK	1	1	19.12	19.86	0	0.0
	1	137	19.91	20.49		0.0
	1	271	19.90	**20.50**		0.0
	135	0	18.43	19.24	0-1	1.0
	135	69	19.75	**20.46**	0	0.0
	135	138	18.95	19.50	0-1	1.0
	270	0	18.79	19.41		1.0
DFT-s-OFDM 16QAM	1	1	18.23	19.05	0-1	1.0
CP-OFDM QPSK	1	1	17.60	18.26	0-1.5	1.5

Table 9-214
NR Band n77 Measured P_{Limit} for DSI = 0 (Body-worn, or Phablet with grip sensor inactive), or DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack Active) - 90 MHz Bandwidth

NR Band n77 90 MHz Bandwidth							
Modulation	RB Size	RB Offset	649668 (3745.02 MHz)	656000 (3840 MHz)	662332 (3934.98 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
DFT-s-OFDM π/2 BPSK	1	1	18.36	18.76	19.05	0	0.0
	1	123	18.88	19.37	19.61		0.0
	1	243	19.06	19.26	19.94		0.0
	120	0	18.02	18.71	18.81	0-0.5	0.5
	120	63	18.77	19.34	19.57	0	0.0
	120	125	18.45	18.85	19.31	0-0.5	0.5
	243	0	18.26	18.78	19.11		0.5
DFT-s-OFDM QPSK	1	1	18.43	18.91	19.21	0	0.0
	1	123	18.51	19.61	19.71		0.0
	1	243	19.15	19.54	20.05		0.0
	120	0	17.48	18.23	18.38	0-1	1.0
	120	63	18.80	19.42	19.70	0	0.0
	120	125	18.00	18.43	18.90	0-1	1.0
	243	0	17.80	18.35	18.62		1.0
DFT-s-OFDM 16QAM	1	1	17.65	18.16	18.38	0-1	1.0
CP-OFDM QPSK	1	1	17.03	17.35	17.65	0-1.5	1.5

Table 9-215
NR Band n77 Measured P_{Limit} for DSI = 0 (Body-worn, or Phablet with grip sensor inactive), or DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack Active) - 80 MHz Bandwidth

NR Band n77 80 MHz Bandwidth							
			Channel			MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	649334 (3740.01 MHz)	656000 (3840 MHz)	662666 (3939.99 MHz)		
			Conducted Power [dBm]				
DFT-s-OFDM π/2 BPSK	1	1	18.43	18.99	19.55	0	0.0
	1	109	19.00	19.60	19.80		0.0
	1	215	19.30	19.45	20.15		0.0
	108	0	18.18	18.99	19.20	0-0.5	0.5
	108	55	19.05	19.54	19.85	0	0.0
	108	109	18.70	19.16	19.65	0-0.5	0.5
	216	0	18.49	19.08	19.40		0.5
DFT-s-OFDM QPSK	1	1	18.70	19.23	19.49	0	0.0
	1	109	19.22	19.73	20.12		0.0
	1	215	19.35	19.64	20.21		0.0
	108	0	17.75	18.57	18.64	0-1	1.0
	108	55	19.08	19.70	19.98	0	0.0
	108	109	18.28	18.76	19.25	0-1	1.0
	216	0	18.02	18.60	19.11		1.0
DFT-s-OFDM 16QAM	1	1	17.70	18.44	18.44	0-1	1.0
CP-OFDM QPSK	1	1	16.94	17.49	18.08	0-1.5	1.5

Table 9-216
NR Band n77 Measured P_{Limit} for DSI = 0 (Body-worn, or Phablet with grip sensor inactive), or DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack Active) - 70 MHz Bandwidth

NR Band n77 70 MHz Bandwidth								
Modulation	RB Size	RB Offset	649000 (3735 MHz)	653666 (3804.99 MHz)	658334 (3875.01 MHz)	663000 (3945 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]					
DFT-s-OFDM π/2 BPSK	1	1	18.75	19.15	19.40	19.56	0	0.0
	1	95	19.12	19.48	19.70	19.99		0.0
	1	187	19.54	19.51	19.69	20.15		0.0
	90	0	18.31	18.87	19.02	19.28	0-0.5	0.5
	90	50	19.06	19.61	19.65	20.01	0	0.0
	90	99	18.85	19.26	19.30	19.71	0-0.5	0.5
	180	0	18.66	18.99	19.13	19.48		0.5
DFT-s-OFDM QPSK	1	1	18.75	19.05	19.47	19.52	0	0.0
	1	95	19.11	19.60	19.75	20.03		0.0
	1	187	19.40	19.68	19.65	20.30		0.0
	90	0	17.85	18.45	18.65	18.81	0-1	1.0
	90	50	19.16	19.65	19.68	20.09	0	0.0
	90	99	18.35	18.82	18.87	19.36	0-1	1.0
	180	0	18.09	18.55	18.74	19.03		1.0
DFT-s-OFDM 16QAM	1	1	17.54	17.98	18.40	18.70	0-1	1.0
CP-OFDM QPSK	1	1	17.12	17.52	17.73	18.25	0-1.5	1.5

Table 9-217
NR Band n77 Measured P_{Limit} for DSI = 0 (Body-worn, or Phablet with grip sensor inactive), or DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack Active) - 60 MHz Bandwidth

NR Band n77 60 MHz Bandwidth								
			Channel				MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	648668 (3730.02 MHz)	653556 (3803.34 MHz)	658444 (3876.66 MHz)	663332 (3949.98 MHz)		
			Conducted Power [dBm]					
DFT-s-OFDM π/2 BPSK	1	1	18.88	19.35	19.54	19.76	0	0.0
	1	81	19.20	19.78	19.85	20.32		0.0
	1	160	19.50	20.04	19.98	20.46		0.0
	81	0	18.55	19.12	19.31	19.44	0-0.5	0.5
	81	41	19.22	19.73	19.86	20.17	0	0.0
	81	81	18.85	19.40	19.45	19.91	0-0.5	0.5
	162	0	18.77	19.24	19.37	19.38		0.5
DFT-s-OFDM QPSK	1	1	18.90	19.30	19.69	19.76	0	0.0
	1	81	19.22	19.86	20.00	20.31		0.0
	1	160	19.57	20.08	19.92	20.48		0.0
	81	0	17.99	18.69	18.89	19.03	0-1	1.0
	81	41	19.25	19.85	19.85	20.30	0	0.0
	81	81	18.41	19.02	18.95	19.50	0-1	1.0
	162	0	18.28	18.87	18.85	19.26		1.0
DFT-s-OFDM 16QAM	1	1	17.87	18.11	18.36	18.72	0-1	1.0
CP-OFDM QPSK	1	1	17.25	17.92	17.75	18.16	0-1.5	1.5

Table 9-218
NR Band n77 Measured P_{Limit} for DSI = 0 (Body-worn, or Phablet with grip sensor inactive), or DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack Active) - 50 MHz Bandwidth

NR Band n77 50 MHz Bandwidth									
			Channel					MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	648334 (3725.01 MHz)	652166 (3782.49 MHz)	656000 (3840 MHz)	659834 (3897.51 MHz)	663666 (3954.99 MHz)		
			Conducted Power [dBm]						
DFT-s-OFDM π/2 BPSK	1	1	19.22	19.54	19.91	19.87	20.11	0	0.0
	1	67	19.23	19.95	20.24	20.03	20.47		0.0
	1	131	19.38	19.99	20.28	20.19	20.50		0.0
	64	0	18.81	19.34	19.64	19.50	19.70	0-0.5	0.5
	64	35	19.40	20.05	20.17	19.99	20.50	0	0.0
	64	69	18.95	19.51	19.69	19.60	20.00	0-0.5	0.5
	128	0	18.94	19.42	19.67	19.56	19.93		0.5
DFT-s-OFDM QPSK	1	1	19.30	19.56	20.20	19.99	20.15	0	0.0
	1	67	19.39	20.01	20.15	20.02	20.43		0.0
	1	131	19.62	20.31	20.23	20.00	20.50		0.0
	64	0	18.38	18.86	19.24	19.15	19.36	0-1	1.0
	64	35	19.42	20.06	20.26	20.20	20.48	0	0.0
	64	69	18.47	19.07	19.30	19.21	19.49	0-1	1.0
	128	0	18.41	19.01	19.21	19.17	19.47		1.0
DFT-s-OFDM 16QAM	1	1	18.15	18.41	18.60	18.79	19.05	0-1	1.0
CP-OFDM QPSK	1	1	18.05	18.30	18.25	18.50	18.78	0-1.5	1.5

Table 9-219
NR Band n77 Measured P_{Limit} for DSI = 0 (Body-worn, or Phablet with grip sensor inactive), or DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack Active) - 40 MHz Bandwidth

NR Band n77 40 MHz Bandwidth										
			Channel						MPR Allowed per 3GPP [dB]	MPR Allowed per 3GPP [dB]
Modulation	RB Size	RB Offset	648000 (3720 MHz)	651200 (3768 MHz)	654400 (3816 MHz)	657600 (3864 MHz)	660800 (3912 MHz)	664000 (3960 MHz)		
			Conducted Power [dBm]							
DFT-s-OFDM π/2 BPSK	1	1	19.00	19.49	19.87	20.02	20.18	20.23	0	0.0
	1	53	19.21	19.79	20.06	19.92	20.14	20.25		0.0
	1	104	19.49	19.97	20.15	20.21	20.48	20.50		0.0
	50	0	18.68	18.58	19.37	19.54	19.64	19.82	0-0.5	0.5
	50	28	19.23	19.66	19.92	20.05	20.20	20.30	0	0.0
	50	56	18.79	18.78	19.60	19.54	19.78	19.99	0-0.5	0.5
	100	0	18.81	18.75	19.48	19.63	19.75	19.88		0.5
DFT-s-OFDM QPSK	1	1	19.25	19.56	19.91	20.07	20.18	20.31	0	0.0
	1	53	19.25	19.69	19.90	20.10	20.20	20.32		0.0
	1	104	19.64	20.03	20.26	20.16	20.20	20.50		0.0
	50	0	18.13	18.64	19.00	19.11	19.10	19.31	0-1	1.0
	50	28	19.20	19.74	19.97	19.98	20.14	20.38	0	0.0
	50	56	18.35	18.89	19.06	19.05	19.25	19.00	0-1	1.0
	100	0	18.23	18.82	19.01	19.13	19.18	19.36		1.0
DFT-s-OFDM 16QAM	1	1	17.90	18.03	19.12	18.84	19.05	19.13	0-1	1.0
CP-OFDM QPSK	1	1	17.55	17.99	17.99	18.58	18.61	18.56	0-1.5	1.5

Table 9-220
NR Band n77 Measured P_{Limit} for DSI = 0 (Body-worn, or Phablet with grip sensor inactive), or DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack Active) - 30 MHz Bandwidth

NR Band n77 30 MHz Bandwidth										
			Channel						MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	647668 (3715.02 MHz)	651000 (3765 MHz)	654334 (3815.01 MHz)	657666 (3864.99 MHz)	661000 (3915 MHz)	664332 (3964.98 MHz)		
			Conducted Power [dBm]							
DFT-s-OFDM π/2 BPSK	1	1	19.39	19.44	20.22	20.15	20.12	20.45	0	0.0
	1	39	19.48	19.64	20.30	20.22	20.30	20.40		0.0
	1	76	19.71	20.00	20.35	20.42	20.22	20.50		0.0
	36	0	19.00	19.16	19.71	19.67	19.65	19.84	0-0.5	0.5
	36	21	19.55	19.83	20.18	20.13	20.15	20.39	0	0.0
	36	42	19.10	19.52	19.77	19.70	19.68	20.00	0-0.5	0.5
	75	0	19.12	19.36	19.74	19.65	19.70	19.95		0.5
DFT-s-OFDM QPSK	1	1	19.32	19.55	20.05	20.25	20.18	20.38	0	0.0
	1	39	19.82	20.03	20.00	20.20	20.24	20.48		0.0
	1	76	19.52	20.21	20.31	20.35	20.43	20.50		0.0
	36	0	18.54	18.76	19.22	19.15	19.28	19.42	0-1	1.0
	36	21	19.62	19.96	20.25	20.22	20.25	20.42	0	0.0
	36	42	18.62	18.98	19.33	19.21	19.29	19.50	0-1	1.0
	75	0	18.66	18.93	19.36	19.17	19.32	19.43		1.0
DFT-s-OFDM 16QAM	1	1	18.36	18.47	18.88	19.05	18.93	18.89	0-1	1.0
CP-OFDM QPSK	1	1	17.97	18.25	18.80	18.61	18.60	18.60	0-1.5	1.5

Table 9-221
NR Band n77 Measured P_{Limit} for DSI = 0 (Body-worn, or Phablet with grip sensor inactive), or DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack Active) - 20 MHz Bandwidth

NR Band n77 20 MHz Bandwidth										
			Channel						MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	647334 (3710.01 MHz)	650800 (3762 MHz)	654266 (3813.99 MHz)	657734 (3866.01 MHz)	661200 (3918 MHz)	664666 (3969.99 MHz)		
			Conducted Power [dBm]							
DFT-s-OFDM π/2 BPSK	1	1	19.63	19.67	20.25	20.41	20.25	20.42	0	0.0
	1	26	19.53	19.79	20.50	20.28	20.35	20.50		0.0
	1	49	19.50	20.32	20.27	20.42	20.50	20.49		0.0
	25	0	18.99	19.31	19.79	19.91	19.85	19.99	0-0.5	0.5
	25	13	19.70	19.98	20.18	20.35	20.28	20.50	0	0.0
	25	26	19.01	19.55	19.89	19.76	19.92	19.98	0-0.5	0.5
	50	0	19.04	19.50	19.76	19.84	19.81	20.00		0.5
DFT-s-OFDM QPSK	1	1	19.66	19.75	20.40	20.35	20.33	20.48	0	0.0
	1	26	19.65	19.95	20.45	20.35	20.44	20.49		0.0
	1	49	19.74	20.31	20.26	20.15	20.40	20.50		0.0
	25	0	18.62	19.09	19.32	19.31	19.35	19.42	0-1	1.0
	25	13	19.65	20.15	20.27	20.25	20.22	20.49	0	0.0
	25	26	18.73	19.15	19.40	19.32	19.38	19.49	0-1	1.0
	50	0	18.71	19.11	19.40	19.45	19.30	19.50		1.0
DFT-s-OFDM 16QAM	1	1	18.24	18.66	18.89	19.28	19.06	19.47	0-1	1.0
CP-OFDM QPSK	1	1	18.30	18.13	18.75	18.76	18.87	18.94	0-1.5	1.5

Table 9-222
NR Band n77 Measured P_{Limit} for DSI = 2 (Head)- 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	14.80	15.30	0	0.0
	1	137	15.20	15.85		0.0
	1	271	15.34	15.81		0.0
	135	0	14.77	15.76	0-0.5	0.0
	135	69	15.18	15.86	0	0.0
	135	138	15.34	15.89	0-0.5	0.0
	270	0	15.08	15.88		0.0
DFT-s-OFDM QPSK	1	1	14.76	15.33	0	0.0
	1	137	15.27	15.93		0.0
	1	271	15.53	**15.95**		0.0
	135	0	14.80	**15.96**	0-1	0.0
	135	69	15.12	15.95	0	0.0
	135	138	15.30	15.95	0-1	0.0
	270	0	15.06	15.91		0.0
DFT-s-OFDM 16QAM	1	1	14.72	15.33	0-1	0.0
CP-OFDM QPSK	1	1	14.80	15.21	0-1.5	0.5

Table 9-223
NR Band n77 Measured P_{Limit} for DSI = 2 (Head)- 90 MHz Bandwidth

NR Band n77 90 MHz Bandwidth							
			Channel			MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	649668 (3745.02 MHz)	656000 (3840 MHz)	662332 (3934.98 MHz)		
			Conducted Power [dBm]				
DFT-s-OFDM π/2 BPSK	1	1	14.25	14.69	15.01	0	0.0
	1	123	14.98	15.35	15.71		0.0
	1	243	15.05	15.25	15.85		0.0
	120	0	14.57	15.25	15.37	0-0.5	0.0
	120	63	14.90	15.41	15.69	0	0.0
	120	125	15.06	15.41	15.81	0-0.5	0.0
	243	0	14.89	15.29	15.65		0.0
DFT-s-OFDM QPSK	1	1	14.31	14.72	15.05	0	0.0
	1	123	15.12	15.07	15.64		0.0
	1	243	15.07	15.21	15.88		0.0
	120	0	14.56	15.20	15.37	0-1	0.0
	120	63	14.93	15.40	15.65	0	0.0
	120	125	15.07	15.34	15.86	0-1	0.0
	243	0	14.89	15.32	15.62		0.0
DFT-s-OFDM 16QAM	1	1	14.54	15.01	15.25	0-1	0.0
CP-OFDM QPSK	1	1	14.30	14.55	14.90	0-1.5	0.5

Table 9-224
NR Band n77 Measured P_{Limit} for DSI = 2 (Head)- 80 MHz Bandwidth

NR Band n77 80 MHz Bandwidth							
			Channel			MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	649334 (3740.01 MHz)	656000 (3840 MHz)	662666 (3939.99 MHz)		
			Conducted Power [dBm]				
DFT-s-OFDM π/2 BPSK	1	1	14.38	14.95	15.00	0	0.0
	1	109	15.00	15.57	15.77		0.0
	1	215	15.11	15.38	15.88		0.0
	108	0	14.52	15.31	15.43	0-0.5	0.0
	108	55	14.92	15.47	15.75	0	0.0
	108	109	15.15	15.47	15.88	0-0.5	0.0
	216	0	14.87	15.41	15.64		0.0
DFT-s-OFDM QPSK	1	1	14.40	15.00	15.20	0	0.0
	1	109	14.81	15.53	15.83		0.0
	1	215	15.15	15.44	15.99		0.0
	108	0	14.59	15.30	15.48	0-1	0.0
	108	55	15.00	15.48	15.79	0	0.0
	108	109	15.24	15.46	15.92	0-1	0.0
	216	0	14.93	15.44	15.67		0.0
DFT-s-OFDM 16QAM	1	1	14.83	15.16	15.55	0-1	0.0
CP-OFDM QPSK	1	1	14.40	14.90	15.18	0-1.5	0.5

Table 9-225
NR Band n77 Measured P_{Limit} for DSI = 2 (Head)- 70 MHz Bandwidth

NR Band n77 70 MHz Bandwidth								
			Channel				MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	649000 (3735 MHz)	653666 (3804.99 MHz)	658334 (3875.01 MHz)	663000 (3945 MHz)		
			Conducted Power [dBm]					
DFT-s-OFDM π/2 BPSK	1	1	14.41	14.95	15.34	15.32	0	0.0
	1	95	14.85	15.55	15.57	15.72		0.0
	1	187	15.25	15.55	15.64	15.87		0.0
	90	0	14.57	15.25	15.47	15.54	0-0.5	0.0
	90	50	14.81	15.44	15.55	15.80	0	0.0
	90	99	15.06	15.60	15.67	15.95	0-0.5	0.0
	180	0	14.83	15.39	15.52	15.76		0.0
DFT-s-OFDM QPSK	1	1	14.53	15.08	15.37	15.41	0	0.0
	1	95	14.87	15.61	15.65	15.95		0.0
	1	187	15.30	15.66	15.62	15.93		0.0
	90	0	14.53	15.27	15.48	15.54	0-1	0.0
	90	50	14.85	15.43	15.55	15.79	0	0.0
	90	99	15.12	15.69	15.69	15.91	0-1	0.0
	180	0	14.82	15.43	15.51	15.78		0.0
DFT-s-OFDM 16QAM	1	1	15.04	15.49	15.51	15.45	0-1	0.0
CP-OFDM QPSK	1	1	14.55	15.01	15.31	15.35	0-1.5	0.5

Table 9-226
NR Band n77 Measured P_{Limit} for DSI = 2 (Head)- 70 MHz Bandwidth

NR Band n77 60 MHz Bandwidth								
			Channel				MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	648668 (3730.02 MHz)	653556 (3803.34 MHz)	658444 (3876.66 MHz)	663332 (3949.98 MHz)		
			Conducted Power [dBm]					
DFT-s-OFDM π/2 BPSK	1	1	14.34	14.90	15.27	15.28	0	0.0
	1	81	14.77	15.19	15.25	15.66		0.0
	1	160	15.03	15.41	15.30	15.95		0.0
	81	0	14.49	15.08	15.32	15.40	0-0.5	0.0
	81	41	14.78	15.13	15.34	15.63	0	0.0
	81	81	15.00	15.45	15.47	15.85	0-0.5	0.0
	162	0	14.76	15.28	15.30	15.66		0.0
DFT-s-OFDM QPSK	1	1	14.37	14.95	15.30	15.15	0	0.0
	1	81	14.69	15.23	15.29	15.75		0.0
	1	160	15.08	15.51	15.54	15.92		0.0
	81	0	14.53	15.16	15.30	15.43	0-1	0.0
	81	41	14.73	15.32	15.36	15.65	0	0.0
	81	81	14.90	15.49	15.49	15.90	0-1	0.0
	162	0	14.74	15.29	15.33	15.67		0.0
DFT-s-OFDM 16QAM	1	1	14.59	15.24	15.44	15.60	0-1	0.0
CP-OFDM QPSK	1	1	14.48	15.05	15.20	15.16	0-1.5	0.5

Table 9-227
NR Band n77 Measured P_{Limit} for DSI = 2 (Head)- 50 MHz Bandwidth

NR Band n77 50 MHz Bandwidth									
			Channel					MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	648334 (3725.01 MHz)	652166 (3782.49 MHz)	656000 (3840 MHz)	659834 (3897.51 MHz)	663666 (3954.99 MHz)		
			Conducted Power [dBm]						
DFT-s-OFDM π/2 BPSK	1	1	14.88	14.95	14.75	15.11	15.18	0	0.0
	1	67	14.90	15.19	15.05	15.17	15.02		0.0
	1	131	14.88	15.35	15.02	15.10	14.91		0.0
	64	0	15.00	15.21	15.01	15.14	15.22	0-0.5	0.0
	64	35	15.04	15.35	15.14	15.29	15.09	0	0.0
	64	69	15.04	15.37	15.21	15.38	15.07	0-0.5	0.0
	128	0	14.92	15.33	15.05	15.39	15.20		0.0
DFT-s-OFDM QPSK	1	1	14.86	14.99	15.21	15.20	15.35	0	0.0
	1	67	14.96	15.15	15.00	15.49	15.28		0.0
	1	131	15.01	15.30	15.25	15.47	15.15		0.0
	64	0	14.95	15.22	15.36	15.38	15.28	0-1	0.0
	64	35	14.91	15.31	15.26	15.39	15.27	0	0.0
	64	69	15.01	15.21	15.50	15.33	15.14	0-1	0.0
	128	0	14.98	15.26	15.41	15.31	15.15		0.0
DFT-s-OFDM 16QAM	1	1	14.75	15.01	15.26	15.50	15.40	0-1	0.0
CP-OFDM QPSK	1	1	14.56	14.93	15.20	15.06	15.03	0-1.5	0.5

Table 9-228
NR Band n77 Measured P_{Limit} for DSI = 2 (Head)- 40 MHz Bandwidth

NR Band n77 40 MHz Bandwidth										
			Channel						MPR Allowed per 3GPP [dB]	MPR Allowed per 3GPP [dB]
Modulation	RB Size	RB Offset	648000 (3720 MHz)	651200 (3768 MHz)	654400 (3816 MHz)	657600 (3864 MHz)	660800 (3912 MHz)	664000 (3960 MHz)		
			Conducted Power [dBm]							
DFT-s-OFDM π/2 BPSK	1	1	14.81	15.33	15.61	15.58	15.58	15.49	0	0.0
	1	53	14.95	15.45	15.70	15.60	15.46	15.42		0.0
	1	104	15.35	15.69	15.69	15.78	15.46	15.48		0.0
	50	0	15.02	15.40	15.68	15.61	15.48	15.41	0-0.5	0.0
	50	28	15.20	15.44	15.65	15.52	15.53	15.33	0	0.0
	50	56	15.16	15.67	15.68	15.65	15.52	15.40	0-0.5	0.0
	100	0	15.18	15.40	15.66	15.55	15.49	15.43		0.0
DFT-s-OFDM QPSK	1	1	15.28	15.57	15.50	15.54	15.55	15.48	0	0.0
	1	53	15.12	15.45	15.70	15.37	15.38	15.35		0.0
	1	104	15.41	15.68	15.78	15.77	15.48	15.41		0.0
	50	0	15.13	15.49	15.62	15.61	15.51	15.52	0-1	0.0
	50	28	15.26	15.44	15.67	15.57	15.54	15.43	0	0.0
	50	56	15.27	15.54	15.67	15.59	15.65	15.51	0-1	0.0
	100	0	15.28	15.50	15.78	15.62	15.62	15.43		0.0
DFT-s-OFDM 16QAM	1	1	15.06	15.26	15.62	15.65	15.40	15.63	0-1	0.0
CP-OFDM QPSK	1	1	14.84	15.13	15.45	15.15	15.24	15.29	0-1.5	0.5

Table 9-229
NR Band n77 Measured P_{Limit} for DSI = 2 (Head)- 30 MHz Bandwidth

NR Band n77 30 MHz Bandwidth										
			Channel						MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	647668 (3715.02 MHz)	651000 (3765 MHz)	654334 (3815.01 MHz)	657666 (3864.99 MHz)	661000 (3915 MHz)	664332 (3964.98 MHz)		
			Conducted Power [dBm]							
DFT-s-OFDM π/2 BPSK	1	1	14.71	15.14	15.40	15.20	15.19	15.32	0	0.0
	1	39	14.98	15.42	15.55	15.49	15.35	15.22		0.0
	1	76	15.15	15.34	15.74	15.50	15.46	15.57		0.0
	36	0	14.90	15.12	15.50	15.36	15.42	15.34	0-0.5	0.0
	36	21	14.99	15.28	15.59	15.42	15.41	15.22	0	0.0
	36	42	15.10	15.38	15.61	15.43	15.52	15.36	0-0.5	0.0
	75	0	15.07	15.28	15.63	15.39	15.43	15.35		0.0
DFT-s-OFDM QPSK	1	1	14.86	15.48	15.33	15.22	15.32	15.40	0	0.0
	1	39	15.05	15.20	15.50	15.30	15.36	15.21		0.0
	1	76	15.01	15.37	15.53	15.50	15.43	15.31		0.0
	36	0	14.93	15.27	15.51	15.44	15.45	15.32	0-1	0.0
	36	21	15.02	15.25	15.56	15.39	15.48	15.12	0	0.0
	36	42	15.15	15.32	15.64	15.40	15.49	15.25	0-1	0.0
	75	0	15.12	15.29	15.60	15.42	15.47	15.22		0.0
DFT-s-OFDM 16QAM	1	1	14.78	15.15	15.25	15.25	15.51	15.32	0-1	0.0
CP-OFDM QPSK	1	1	14.62	14.97	15.05	15.12	15.24	15.03	0-1.5	0.5

Table 9-230
NR Band n77 Measured P_{Limit} for DSI = 2 (Head)- 20 MHz Bandwidth

NR Band n77 20 MHz Bandwidth										
			Channel						MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	647334 (3710.01 MHz)	650800 (3762 MHz)	654266 (3813.99 MHz)	657734 (3866.01 MHz)	661200 (3918 MHz)	664666 (3969.99 MHz)		
			Conducted Power [dBm]							
DFT-s-OFDM π/2 BPSK	1	1	15.05	15.21	15.55	15.19	15.27	15.18	0	0.0
	1	26	15.06	15.35	15.64	15.18	15.34	15.11		0.0
	1	49	15.22	15.53	15.64	15.51	15.27	15.22		0.0
	25	0	15.12	15.25	15.57	15.38	15.22	15.21	0-0.5	0.0
	25	13	15.09	15.46	15.64	15.36	15.35	15.41	0	0.0
	25	26	15.15	15.50	15.65	15.54	15.38	15.46	0-0.5	0.0
	50	0	15.10	15.52	15.59	15.38	15.43	15.45		0.0
DFT-s-OFDM QPSK	1	1	15.08	15.24	15.56	15.42	15.49	15.52	0	0.0
	1	26	15.14	15.46	15.52	15.47	15.42	15.38		0.0
	1	49	15.19	15.55	15.65	15.48	15.30	15.28		0.0
	25	0	15.03	15.35	15.64	15.41	15.31	15.41	0-1	0.0
	25	13	15.13	15.41	15.56	15.37	15.26	15.37	0	0.0
	25	26	15.14	15.57	15.52	15.31	15.37	15.15	0-1	0.0
	50	0	15.12	15.47	15.60	15.22	15.31	15.28		0.0
DFT-s-OFDM 16QAM	1	1	15.21	15.31	15.40	15.15	15.16	15.45	0-1	0.0
CP-OFDM QPSK	1	1	14.96	14.96	15.32	15.27	15.22	15.18	0-1.5	0.5

Table 9-231
NR Band n77 Measured P_{Limit} for DSI = 3 (Hotspot Mode) - 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	17.35	17.83	0	0.0
	1	137	17.78	18.35		0.0
	1	271	18.02	18.45		0.0
	135	0	17.37	18.38	0-0.5	0.0
	135	69	17.72	18.27	0	0.0
	135	138	17.92	18.45	0-0.5	0.0
	270	0	17.69	18.35		0.0
DFT-s-OFDM QPSK	1	1	17.41	18.05	0	0.0
	1	137	17.67	**18.50**		0.0
	1	271	18.14	18.36		0.0
	135	0	17.41	18.20	0-1	0.0
	135	69	17.72	**18.34**	0	0.0
	135	138	17.92	18.31	0-1	0.0
	270	0	17.70	18.29		0.0
DFT-s-OFDM 16QAM	1	1	17.32	18.15	0-1	0.0
CP-OFDM QPSK	1	1	17.33	18.10	0-1.5	0.0

Table 9-232
NR Band n77 Measured P_{Limit} for DSI = 3 (Hotspot Mode) - 90 MHz Bandwidth

NR Band n77 90 MHz Bandwidth							
			Channel			MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	649668 (3745.02 MHz)	656000 (3840 MHz)	662332 (3934.98 MHz)		
			Conducted Power [dBm]				
DFT-s-OFDM π/2 BPSK	1	1	16.98	16.95	17.34	0	0.0
	1	123	17.40	17.54	17.57		0.0
	1	243	17.43	17.40	17.45		0.0
	120	0	17.24	17.33	17.47	0-0.5	0.0
	120	63	17.44	17.47	17.54	0	0.0
	120	125	17.48	17.53	17.47	0-0.5	0.0
	243	0	17.24	17.39	17.53		0.0
DFT-s-OFDM QPSK	1	1	16.89	17.01	17.22	0	0.0
	1	123	17.09	17.54	17.75		0.0
	1	243	17.08	17.31	17.35		0.0
	120	0	17.08	17.34	17.66	0-1	0.0
	120	63	17.19	17.47	17.75	0	0.0
	120	125	17.25	17.56	17.57	0-1	0.0
	243	0	17.32	17.49	17.66		0.0
DFT-s-OFDM 16QAM	1	1	16.92	16.98	17.39	0-1	0.0
CP-OFDM QPSK	1	1	16.87	16.99	17.56	0-1.5	0.0

Table 9-233
NR Band n77 Measured P_{Limit} for DSI = 3 (Hotspot Mode) - 80 MHz Bandwidth

NR Band n77 80 MHz Bandwidth							
			Channel			MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	649334 (3740.01 MHz)	656000 (3840 MHz)	662666 (3939.99 MHz)		
			Conducted Power [dBm]				
DFT-s-OFDM π/2 BPSK	1	1	17.19	17.17	17.25	0	0.0
	1	109	17.36	17.67	17.49		0.0
	1	215	17.37	17.57	17.19		0.0
	108	0	17.18	17.47	17.41	0-0.5	0.0
	108	55	17.33	17.50	17.49	0	0.0
	108	109	17.41	17.61	17.35	0-0.5	0.0
	216	0	17.45	17.61	17.43		0.0
DFT-s-OFDM QPSK	1	1	17.30	17.29	17.38	0	0.0
	1	109	17.54	17.51	17.35		0.0
	1	215	17.22	17.55	17.26		0.0
	108	0	17.22	17.47	17.37	0-1	0.0
	108	55	17.36	17.58	17.38	0	0.0
	108	109	17.39	17.56	17.24	0-1	0.0
	216	0	17.40	17.65	17.32		0.0
DFT-s-OFDM 16QAM	1	1	17.11	17.56	17.22	0-1	0.0
CP-OFDM QPSK	1	1	17.14	17.41	17.57	0-1.5	0.0

Table 9-234
NR Band n77 Measured P_{Limit} for DSI = 3 (Hotspot Mode) - 70 MHz Bandwidth

NR Band n77 70 MHz Bandwidth								
			Channel				MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	649000 (3735 MHz)	653666 (3804.99 MHz)	658334 (3875.01 MHz)	663000 (3945 MHz)		
			Conducted Power [dBm]					
DFT-s-OFDM π/2 BPSK	1	1	16.75	17.08	17.60	17.63	0	0.0
	1	95	16.97	17.70	17.67	17.69		0.0
	1	187	17.03	17.85	17.54	17.40		0.0
	90	0	16.77	17.61	17.58	17.71	0-0.5	0.0
	90	50	17.11	17.80	17.65	17.69	0	0.0
	90	99	17.26	17.76	17.78	17.67	0-0.5	0.0
	180	0	17.24	17.54	17.35	17.74		0.0
DFT-s-OFDM QPSK	1	1	16.99	17.60	17.24	17.72	0	0.0
	1	95	17.30	17.81	17.55	17.76		0.0
	1	187	17.29	17.85	17.51	17.61		0.0
	90	0	17.37	17.60	17.45	17.80	0-1	0.0
	90	50	17.59	17.84	17.54	17.75	0	0.0
	90	99	17.67	17.99	17.68	17.65	0-1	0.0
	180	0	17.57	17.60	17.65	17.80		0.0
DFT-s-OFDM 16QAM	1	1	17.25	17.51	17.46	17.89	0-1	0.0
CP-OFDM QPSK	1	1	17.36	17.39	17.67	17.67	0-1.5	0.0

Table 9-235
NR Band n77 Measured P_{Limit} for DSI = 3 (Hotspot Mode) - 60 MHz Bandwidth

NR Band n77 60 MHz Bandwidth								
			Channel				MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	648668 (3730.02 MHz)	653556 (3803.34 MHz)	658444 (3876.66 MHz)	663332 (3949.98 MHz)		
			Conducted Power [dBm]					
DFT-s-OFDM π/2 BPSK	1	1	17.35	17.47	17.53	17.45	0	0.0
	1	81	17.58	17.75	17.63	17.65		0.0
	1	160	17.80	18.06	17.70	17.45		0.0
	81	0	17.35	17.66	17.65	17.56	0-0.5	0.0
	81	41	17.51	17.75	17.60	17.59	0	0.0
	81	81	17.61	17.90	17.72	17.59	0-0.5	0.0
	162	0	17.55	17.77	17.65	17.48		0.0
DFT-s-OFDM QPSK	1	1	17.31	17.62	17.58	17.69	0	0.0
	1	81	17.47	17.85	17.66	17.58		0.0
	1	160	17.61	18.00	17.69	17.41		0.0
	81	0	17.41	17.75	17.67	17.62	0-1	0.0
	81	41	17.59	17.51	17.68	17.68	0	0.0
	81	81	17.61	17.70	17.91	17.61	0-1	0.0
	162	0	17.60	17.59	17.77	17.69		0.0
DFT-s-OFDM 16QAM	1	1	17.25	17.45	17.70	17.58	0-1	0.0
CP-OFDM QPSK	1	1	17.46	17.36	17.51	17.54	0-1.5	0.0

Table 9-236
NR Band n77 Measured P_{Limit} for DSI = 3 (Hotspot Mode) - 50 MHz Bandwidth

NR Band n77 50 MHz Bandwidth									
			Channel					MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	648334 (3725.01 MHz)	652166 (3782.49 MHz)	656000 (3840 MHz)	659834 (3897.51 MHz)	663666 (3954.99 MHz)		
			Conducted Power [dBm]						
DFT-s-OFDM π/2 BPSK	1	1	17.56	17.71	17.76	17.87	17.99	0	0.0
	1	67	17.65	17.77	18.07	17.86	17.83		0.0
	1	131	17.85	18.05	17.99	17.75	17.78		0.0
	64	0	17.63	17.91	17.96	17.89	17.89	0-0.5	0.0
	64	35	17.67	18.01	18.09	17.91	17.89	0	0.0
	64	69	17.72	18.03	18.08	17.98	17.81	0-0.5	0.0
	128	0	17.65	17.94	18.05	17.93	17.94		0.0
DFT-s-OFDM QPSK	1	1	17.71	17.65	18.01	18.01	17.90	0	0.0
	1	67	17.83	17.92	18.01	17.91	17.69		0.0
	1	131	17.76	18.11	18.38	17.99	17.71		0.0
	64	0	17.61	17.87	18.02	17.93	17.97	0-1	0.0
	64	35	17.61	17.99	18.09	17.97	17.98	0	0.0
	64	69	17.61	18.04	18.06	17.99	17.92	0-1	0.0
	128	0	17.69	17.88	18.04	17.95	17.95		0.0
DFT-s-OFDM 16QAM	1	1	17.61	17.90	17.85	17.90	18.12	0-1	0.0
CP-OFDM QPSK	1	1	17.45	17.75	17.88	17.72	17.98	0-1.5	0.0

Table 9-237
NR Band n77 Measured P_{Limit} for DSI = 3 (Hotspot Mode) - 40 MHz Bandwidth

NR Band n77 40 MHz Bandwidth										
			Channel						MPR Allowed per 3GPP [dB]	MPR Allowed per 3GPP [dB]
Modulation	RB Size	RB Offset	648000 (3720 MHz)	651200 (3768 MHz)	654400 (3816 MHz)	657600 (3864 MHz)	660800 (3912 MHz)	664000 (3960 MHz)		
			Conducted Power [dBm]							
DFT-s-OFDM π/2 BPSK	1	1	17.62	17.19	17.59	17.65	17.68	17.62		0.0
	1	53	17.58	17.67	17.73	17.79	17.59	17.39	0	0.0
	1	104	17.79	17.22	17.65	18.03	17.76	17.49		0.0
	50	0	17.62	17.44	17.68	17.59	17.66	17.53	0-0.5	0.0
	50	28	17.74	17.57	17.71	17.59	17.60	17.30	0	0.0
	50	56	17.73	17.65	17.74	17.75	17.69	17.39	0-0.5	0.0
	100	0	17.73	17.62	17.64	17.69	17.55	17.45		0.0
DFT-s-OFDM QPSK	1	1	17.85	17.55	17.70	17.60	17.68	17.51		0.0
	1	53	17.73	17.70	17.75	17.52	17.52	17.41	0	0.0
	1	104	17.78	17.74	17.65	17.90	17.69	17.41		0.0
	50	0	17.51	17.39	17.54	17.62	17.59	17.54	0-1	0.0
	50	28	17.82	17.11	17.63	17.68	17.53	17.49	0	0.0
	50	56	17.70	17.11	17.75	17.72	17.67	17.39	0-1	0.0
	100	0	17.76	17.04	17.63	17.64	17.65	17.63		0.0
DFT-s-OFDM 16QAM	1	1	17.56	17.47	17.61	17.63	17.75	17.51	0-1	0.0
CP-OFDM QPSK	1	1	17.99	17.76	17.69	17.54	17.71	17.81	0-1.5	0.0

Table 9-238
NR Band n77 Measured P_{Limit} for DSI = 3 (Hotspot Mode) - 30 MHz Bandwidth

NR Band n77 30 MHz Bandwidth										
			Channel						MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	647668 (3715.02 MHz)	651000 (3765 MHz)	654334 (3815.01 MHz)	657666 (3864.99 MHz)	661000 (3915 MHz)	664332 (3964.98 MHz)		
			Conducted Power [dBm]							
DFT-s-OFDM π/2 BPSK	1	1	17.45	17.54	18.07	17.77	17.80	17.90		0.0
	1	39	17.31	17.64	18.09	17.89	17.94	17.78	0	0.0
	1	76	17.59	17.34	18.20	18.04	17.87	17.37		0.0
	36	0	17.30	17.37	18.05	17.97	17.85	17.58	0-0.5	0.0
	36	21	17.35	17.52	18.06	17.97	17.90	17.62	0	0.0
	36	42	17.57	17.48	18.15	17.94	18.01	17.69	0-0.5	0.0
	75	0	17.54	17.55	18.15	17.97	18.06	17.69		0.0
DFT-s-OFDM QPSK	1	1	17.13	17.70	18.07	17.98	17.85	18.04		0.0
	1	39	17.57	17.65	18.15	17.95	17.78	17.68	0	0.0
	1	76	17.52	17.65	18.02	18.17	17.95	17.77		0.0
	36	0	17.57	17.47	18.00	17.98	17.86	17.80	0-1	0.0
	36	21	17.57	17.55	18.14	17.95	17.75	17.66	0	0.0
	36	42	17.49	17.72	18.09	18.06	17.90	17.78	0-1	0.0
	75	0	17.71	17.62	18.21	17.95	17.71	17.72		0.0
DFT-s-OFDM 16QAM	1	1	17.43	17.31	17.98	17.89	17.40	18.01	0-1	0.0
CP-OFDM QPSK	1	1	17.06	17.40	18.17	18.13	18.00	17.99	0-1.5	0.0

Table 9-239
NR Band n77 Measured P_{Limit} for DSI = 3 (Hotspot Mode) - 20 MHz Bandwidth

NR Band n77 20 MHz Bandwidth										
			Channel						MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	647334 (3710.01 MHz)	650800 (3762 MHz)	654266 (3813.99 MHz)	657734 (3866.01 MHz)	661200 (3918 MHz)	664666 (3969.99 MHz)		
			Conducted Power [dBm]							
DFT-s-OFDM $\pi/2$ BPSK	1	1	17.32	17.71	18.24	18.10	18.13	18.29	0	0.0
	1	26	17.56	17.47	18.21	17.99	18.24	18.13		0.0
	1	49	17.70	17.45	18.27	18.22	18.35	18.32		0.0
	25	0	17.59	17.45	18.29	18.12	18.05	18.15	0-0.5	0.0
	25	13	17.56	17.50	18.23	18.07	18.11	18.16	0	0.0
	25	26	17.52	17.61	18.18	17.96	18.09	18.05	0-0.5	0.0
	50	0	17.47	17.37	18.21	18.05	18.25	18.09		0.0
DFT-s-OFDM QPSK	1	1	17.55	17.11	18.17	18.11	18.15	18.22	0	0.0
	1	26	17.37	17.54	18.27	18.13	18.20	18.02		0.0
	1	49	16.86	17.59	18.34	18.22	18.11	17.99		0.0
	25	0	17.41	17.62	18.19	18.10	18.13	18.07	0-1	0.0
	25	13	17.43	17.77	18.23	17.99	18.11	18.12	0	0.0
	25	26	17.55	17.76	18.16	18.04	18.07	18.08	0-1	0.0
	50	0	17.55	17.81	18.21	18.11	18.11	18.10		0.0
DFT-s-OFDM 16QAM	1	1	17.19	17.55	18.04	17.92	18.37	18.46	0-1	0.0
CP-OFDM QPSK	1	1	17.39	17.24	18.46	18.15	18.17	18.09	0-1.5	0.0

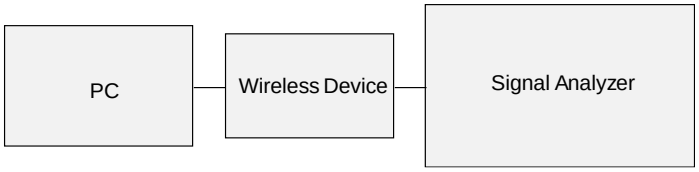


Figure 9-5
Power Measurement Setup

9.4 WLAN Conducted Powers

Table 9-240
2.4 GHz WLAN Maximum Average RF Power – Ant 1

2.4GHz Conducted Power [dBm]		
Freq [MHz]	Channel	IEEE Transmission Mode
		802.11b
		Average
2412	1	18.86
2437	6	19.42
2462	11	19.05

Table 9-241
2.4 GHz WLAN Maximum Average RF Power – Ant 2

2.4GHz Conducted Power [dBm]		
Freq [MHz]	Channel	IEEE Transmission Mode
		802.11b
		Average
2412	1	19.72
2437	6	19.78
2462	11	19.91

Table 9-242
2.4 GHz WLAN Maximum Average RF Power – MIMO

2.4GHz 802.11n Conducted Power [dBm]				
Freq [MHz]	Channel	ANT1	ANT2	MIMO
2412	1	17.71	17.87	20.80
2437	6	17.62	17.59	20.62
2462	11	17.67	18.14	20.92

Table 9-243
2.4 GHz WLAN Reduced Average RF Power with RCV Active – Ant 1

2.4GHz Conducted Power [dBm]		
Freq [MHz]	Channel	IEEE Transmission Mode
		802.11b
		Average
2412	1	16.31
2437	6	16.10
2462	11	16.30

Table 9-244
2.4 GHz WLAN Reduced Average RF Power with RCV Active – Ant 2

2.4GHz Conducted Power [dBm]		
Freq [MHz]	Channel	IEEE Transmission Mode
		802.11b
		Average
2412	1	16.88
2437	6	16.30
2462	11	16.15

Table 9-245
2.4 GHz WLAN Reduced Average RF Power with RCV Active or During Conditions with 2.4 GHz and 5/6 GHz WLAN, or with 5G NR – MIMO

2.4GHz 802.11n Conducted Power [dBm]				
Freq [MHz]	Channel	ANT1	ANT2	MIMO
2412	1	16.44	16.78	19.62
2437	6	16.29	16.38	19.35
2462	11	16.48	16.94	19.73

Table 9-246
2.4 GHz WLAN Reduced Average RF Powers During Conditions with RCV Active and 5G NR, or During Conditions with 5/6 GHz WLAN MIMO with RCV Active

2.4GHz 802.11n Conducted Power [dBm]				
Freq [MHz]	Channel	ANT1	ANT2	MIMO
2412	1	12.60	12.77	15.70
2437	6	12.64	12.55	15.61
2462	11	12.88	13.14	16.02

Table 9-247
5 GHz WLAN Maximum Average RF Power – MIMO

5GHz (20MHz) 802.11n Conducted Power [dBm]				
Freq [MHz]	Channel	ANT1	ANT2	MIMO
5180	36	16.43	17.08	19.78
5200	40	16.32	17.10	19.74
5220	44	16.38	17.17	19.80
5240	48	16.34	17.18	19.79
5260	52	16.37	16.92	19.66
5280	56	16.37	16.86	19.63
5300	60	16.36	17.09	19.75
5320	64	16.31	17.11	19.74
5500	100	16.68	17.19	19.95
5600	120	16.54	17.08	19.83
5620	124	16.58	16.97	19.79
5720	144	16.18	16.83	19.53
5745	149	17.03	17.48	20.27
5785	157	17.21	17.46	20.35
5825	165	17.04	17.57	20.32

Table 9-248
5 GHz WLAN Reduced Average RF Power - MIMO

5GHz (80MHz) 802.11ac Conducted Power [dBm]				
Freq [MHz]	Channel	ANT1	ANT2	MIMO
5210	42	13.25	13.55	16.41
5290	58	13.19	13.65	16.44
5530	106	13.25	13.89	16.59
5610	122	13.57	13.48	16.54
5690	138	13.38	13.58	16.49
5775	155	13.13	13.31	16.23

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.

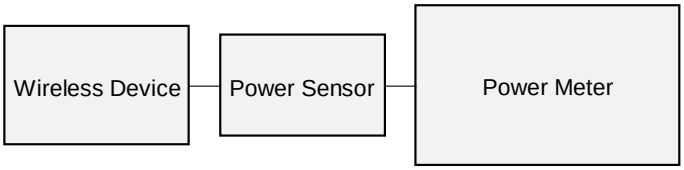


Figure 9-6
Power Measurement Setup

9.5 Bluetooth Conducted Powers

Table 9-249
Bluetooth Maximum Average RF Power– Antenna 1

Frequency [MHz]	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
			[dBm]	[mW]
2402	1.0	0	16.21	41.774
2441	1.0	39	16.29	42.566
2480	1.0	78	15.71	37.280
2402	2.0	0	12.95	19.713
2441	2.0	39	13.40	21.879
2480	2.0	78	13.46	22.182
2402	3.0	0	13.67	23.292
2441	3.0	39	13.48	22.290
2480	3.0	78	13.53	22.563

Table 9-250
Bluetooth Maximum Average RF Power– Antenna 2

Frequency [MHz]	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
			[dBm]	[mW]
2402	1.0	0	14.96	31.354
2441	1.0	39	16.76	47.467
2480	1.0	78	16.44	44.030
2402	2.0	0	10.03	10.074
2441	2.0	39	13.28	21.263
2480	2.0	78	12.29	16.930
2402	3.0	0	11.21	13.208
2441	3.0	39	13.53	22.517
2480	3.0	78	13.64	23.124

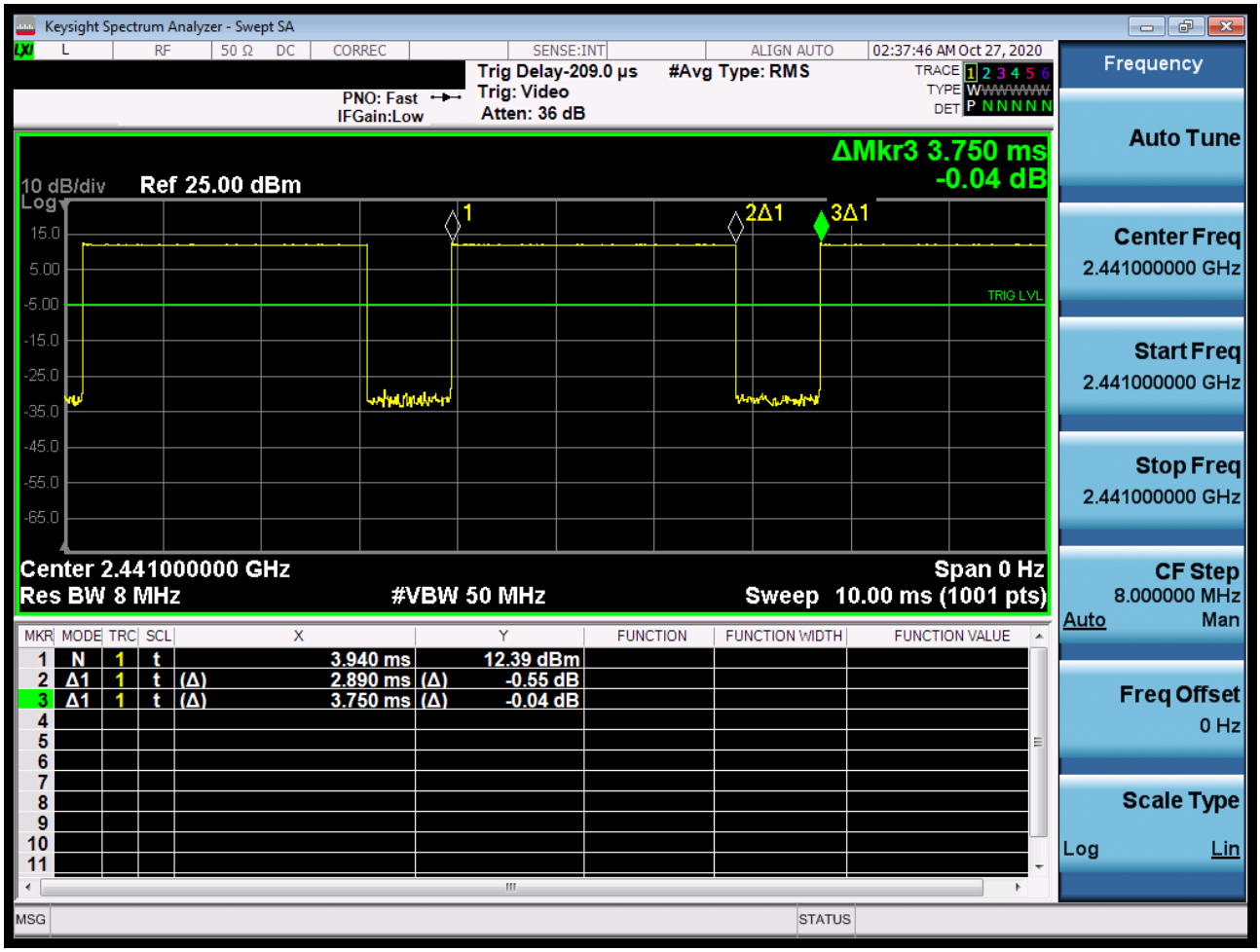
Table 9-251
Bluetooth Reduced Average RF Power (RCV Active) – Antenna 1

Frequency [MHz]	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
			[dBm]	[mW]
2402	1.0	0	13.38	21.767
2441	1.0	39	13.29	21.321
2480	1.0	78	12.65	18.391

Table 9-252
Bluetooth Reduced Average RF Power (RCV Active) – Antenna 2

Frequency [MHz]	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
			[dBm]	[mW]
2402	1.0	0	12.39	17.326
2441	1.0	39	12.90	19.476
2480	1.0	78	12.55	17.993

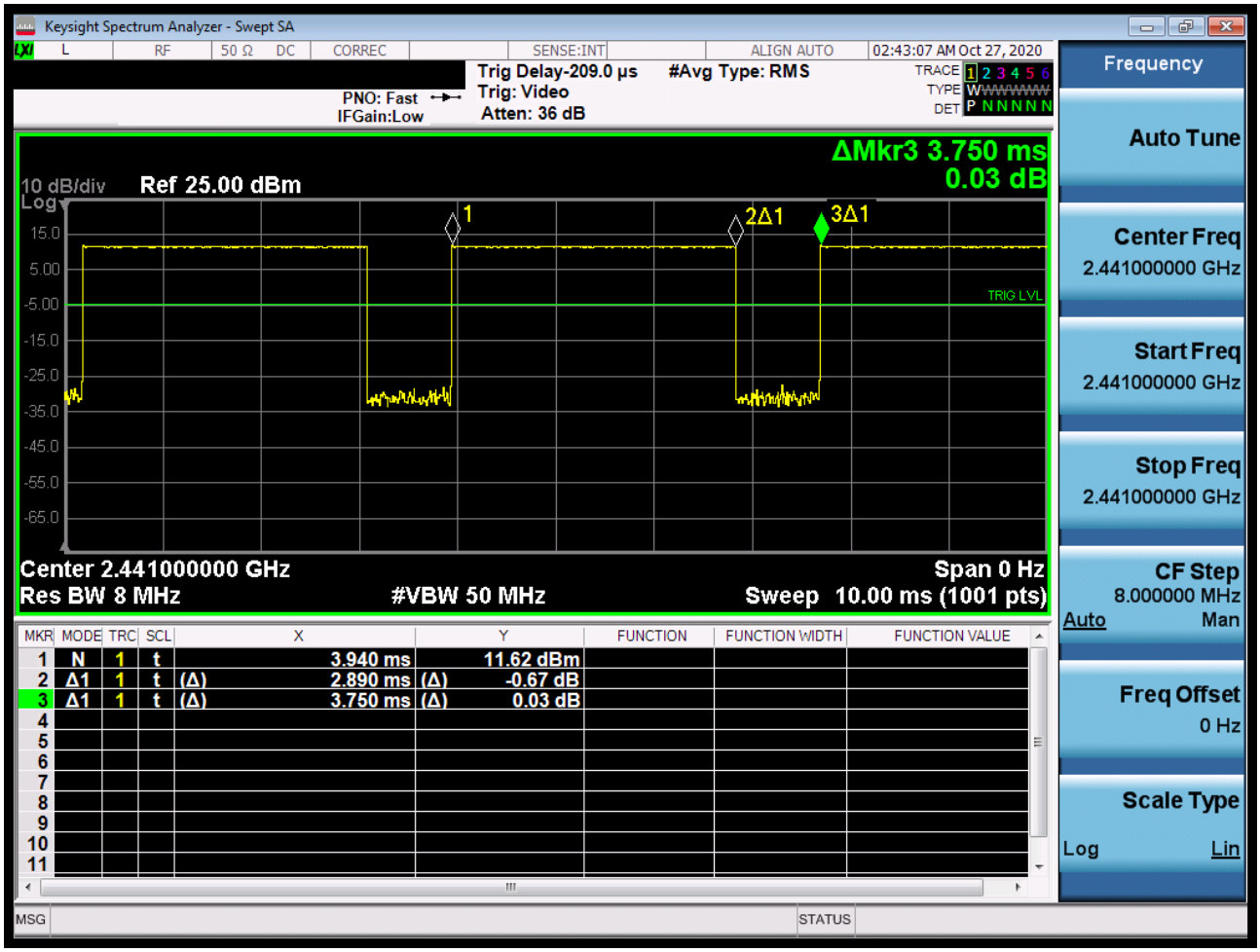
Figure 9-7
Bluetooth Antenna 1 Transmission Plot



Equation 9-1
Bluetooth Antenna 1 Duty Cycle Calculation

$$Duty\ Cycle = \frac{Pulse\ Width}{Period} * 100\% = \frac{2.89ms}{3.75ms} * 100\% = 77.1\%$$

Figure 9-8
Bluetooth Antenna 2 Transmission Plot



Equation 9-2
Bluetooth Antenna 2 Duty Cycle Calculation

$$Duty\ Cycle = \frac{Pulse\ Width}{Period} * 100\% = \frac{2.89ms}{3.75ms} * 100\% = 77.1\%$$

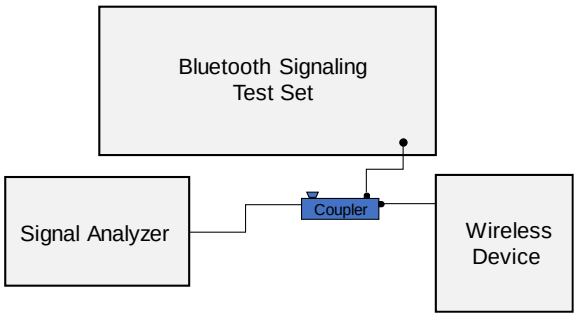


Figure 9-9
Power Measurement Setup

10 SYSTEM VERIFICATION

10.1 Tissue Verification

Table 10-1
Measured Head 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
10/07/2020	750H	22.2	700	0.894	43.205	0.889	42.201	0.56%	2.38%
			710	0.898	43.176	0.890	42.149	0.90%	2.44%
			750	0.912	43.063	0.894	41.942	2.01%	2.67%
			770	0.918	42.995	0.895	41.838	2.57%	2.77%
			785	0.923	42.951	0.896	41.760	3.01%	2.85%
			800	0.929	42.911	0.897	41.682	3.57%	2.95%
11/17/2020	750H	22.1	680	0.890	40.642	0.888	42.305	0.23%	-3.93%
			695	0.895	40.613	0.889	42.227	0.67%	-3.82%
			750	0.914	40.422	0.894	41.942	2.24%	-3.62%
12/14/2020	750H	19.9	700	0.868	42.581	0.889	42.201	-2.36%	0.90%
			710	0.874	42.578	0.89	42.149	-1.80%	1.02%
			750	0.886	42.458	0.894	41.942	-0.89%	1.23%
11/08/2020	835H	22.7	820	0.925	40.137	0.899	41.578	2.89%	-3.47%
			835	0.931	40.098	0.900	41.500	3.44%	-3.38%
			850	0.936	40.050	0.916	41.500	2.18%	-3.49%
11/11/2020	835H	22.8	820	0.879	40.127	0.899	41.578	-2.22%	-3.49%
			835	0.894	39.945	0.900	41.500	-0.67%	-3.75%
			850	0.908	39.752	0.916	41.500	-0.87%	-4.21%
11/16/2020	835H	21.8	820	0.891	42.009	0.899	41.578	-0.89%	1.04%
			835	0.906	41.806	0.900	41.500	0.67%	0.74%
			850	0.921	41.596	0.916	41.500	0.55%	0.23%
11/10/2020	1750H	22.2	1745	1.364	38.176	1.368	40.087	-0.29%	-4.77%
			1750	1.368	38.173	1.371	40.079	-0.22%	-4.76%
			1770	1.380	38.138	1.383	40.047	-0.22%	-4.77%
11/15/2020	1750H	20.5	1710	1.373	40.801	1.348	40.142	1.85%	1.64%
			1720	1.379	40.778	1.354	40.126	1.85%	1.62%
			1745	1.395	40.712	1.368	40.087	1.97%	1.56%
			1750	1.398	40.699	1.371	40.079	1.97%	1.55%
			1770	1.411	40.656	1.383	40.047	2.02%	1.52%
11/17/2020	1750H	23.2	1720	1.360	40.082	1.354	40.126	0.44%	-0.11%
			1745	1.385	39.994	1.368	40.087	1.24%	-0.23%
			1750	1.391	39.962	1.371	40.079	1.46%	-0.29%
			1770	1.409	39.889	1.383	40.047	1.88%	-0.39%
			1790	1.432	39.825	1.394	40.016	2.73%	-0.48%
10/21/2020	1900H	24.3	1850	1.346	40.464	1.400	40.000	-3.86%	1.16%
			1860	1.357	40.434	1.400	40.000	-3.07%	1.08%
			1880	1.377	40.352	1.400	40.000	-1.64%	0.88%
			1900	1.399	40.288	1.400	40.000	-0.07%	0.72%
			1905	1.404	40.273	1.400	40.000	0.29%	0.68%
			1910	1.409	40.267	1.400	40.000	0.64%	0.67%
10/26/2020	1900H	24.0	1860	1.383	41.625	1.400	40.000	-1.21%	4.06%
			1880	1.403	41.551	1.400	40.000	0.21%	3.88%
			1900	1.424	41.474	1.400	40.000	1.71%	3.68%
			1905	1.430	41.454	1.400	40.000	2.14%	3.64%
10/25/2020	2300H	24.0	2300	1.730	38.091	1.670	39.500	3.59%	-3.57%
			2310	1.736	38.075	1.679	39.480	3.39%	-3.56%
			2320	1.743	38.058	1.687	39.460	3.32%	-3.55%
10/18/2020	2450-2600H	22.8	2450	1.865	38.638	1.800	39.200	3.61%	-1.43%
			2500	1.904	38.550	1.855	39.136	2.64%	-1.50%
			2510	1.912	38.535	1.866	39.123	2.47%	-1.50%
			2535	1.931	38.493	1.893	39.092	2.01%	-1.53%
			2550	1.944	38.464	1.909	39.073	1.83%	-1.56%
			2560	1.952	38.443	1.920	39.060	1.67%	-1.58%
			2600	1.984	38.364	1.964	39.009	1.02%	-1.65%
			2650	2.023	38.279	2.018	38.945	0.25%	-1.71%
			2680	2.046	38.223	2.051	38.907	-0.24%	-1.76%
11/05/2020	2450H	22.3	2400	1.817	37.456	1.756	39.289	3.47%	-4.67%
			2450	1.854	37.380	1.800	39.200	3.00%	-4.64%
			2480	1.875	37.329	1.833	39.162	2.29%	-4.68%
11/23/2020	2450H	24.0	2400	1.762	40.075	1.756	39.289	0.34%	2.00%
			2450	1.824	39.885	1.800	39.200	1.33%	1.75%
			2480	1.859	39.781	1.833	39.162	1.42%	1.58%
11/11/2020	2600H	22.3	2560	1.912	37.375	1.920	39.060	-0.42%	-4.31%
			2600	1.940	37.315	1.964	39.009	-1.22%	-4.34%
			2650	1.979	37.228	2.018	38.945	-1.93%	-4.41%
11/23/2020	3600H	21.7	3500	2.821	36.925	2.913	37.929	-3.16%	-2.65%
			3560	2.881	36.831	2.974	37.860	-3.13%	-2.72%
			3600	2.912	36.750	3.015	37.814	-3.42%	-2.81%
			3650	2.961	36.654	3.066	37.757	-3.42%	-2.92%
			3690	2.995	36.588	3.107	37.711	-3.60%	-2.98%
			3700	3.006	36.565	3.117	37.700	-3.56%	-3.01%
			3750	3.050	36.465	3.169	37.643	-3.76%	-3.13%
			3900	3.192	36.216	3.323	37.471	-3.94%	-3.35%
			3930	3.232	36.149	3.353	37.437	-3.61%	-3.44%
10/26/2020	5200-5800H	21.9	5250	4.592	35.360	4.706	35.929	-2.42%	-1.58%
			5290	4.641	35.278	4.748	35.883	-2.25%	-1.69%
			5530	4.908	34.886	4.994	35.609	-1.72%	-2.03%
			5600	4.984	34.764	5.065	35.529	-1.60%	-2.15%
			5750	5.166	34.518	5.219	35.357	-1.02%	-2.37%
			5775	5.183	34.488	5.245	35.329	-1.18%	-2.38%

Table 10-2
Measured Body 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
10/08/2020	750B	22.2	700	0.950	53.897	0.959	55.726	-0.94%	-3.28%
			710	0.953	53.875	0.960	55.687	-0.73%	-3.25%
			750	0.968	53.791	0.964	55.531	0.41%	-3.13%
			770	0.975	53.743	0.965	55.453	1.04%	-3.08%
			785	0.981	53.706	0.966	55.395	1.55%	-3.05%
10/10/2020	750B	21.6	680	0.924	53.485	0.958	55.804	-3.55%	-4.16%
			695	0.929	53.478	0.959	55.745	-3.13%	-4.07%
			750	0.951	53.320	0.964	55.531	-1.35%	-3.98%
10/12/2020	750B	21.8	700	0.965	53.577	0.959	55.726	0.63%	-3.86%
			710	0.969	53.552	0.960	55.687	0.94%	-3.83%
			750	0.984	53.456	0.964	55.531	2.07%	-3.74%
			785	0.997	53.371	0.966	55.395	3.21%	-3.65%
			800	1.003	53.336	0.967	55.336	3.72%	-3.61%
11/09/2020	750B	22.1	680	0.963	53.787	0.958	55.804	0.52%	-3.61%
			695	0.969	53.742	0.959	55.745	1.04%	-3.59%
			750	0.989	53.617	0.964	55.531	2.59%	-3.45%
10/14/2020	835B	21.1	820	0.927	52.827	0.969	55.258	-4.33%	-4.40%
			835	0.942	52.663	0.970	55.200	-2.89%	-4.60%
			850	0.958	52.503	0.988	55.154	-3.04%	-4.81%
10/19/2020	835B	21.4	820	0.931	54.369	0.969	55.258	-3.92%	-1.61%
			835	0.947	54.215	0.970	55.200	-2.37%	-1.78%
			850	0.962	54.057	0.988	55.154	-2.63%	-1.99%
10/21/2020	835B	21.4	820	0.930	54.262	0.969	55.258	-4.02%	-1.80%
			835	0.946	54.128	0.970	55.200	-2.47%	-1.94%
			850	0.962	53.974	0.988	55.154	-2.63%	-2.14%
11/09/2020	835B	21.9	820	0.933	54.889	0.969	55.258	-3.72%	-0.67%
			835	0.948	54.721	0.970	55.200	-2.27%	-0.87%
			850	0.964	54.583	0.988	55.154	-2.43%	-1.04%
09/29/2020	1750B	21.5	1710	1.479	51.574	1.463	53.537	1.09%	-3.67%
			1720	1.491	51.535	1.469	53.511	1.50%	-3.69%
			1745	1.519	51.447	1.485	53.445	2.29%	-3.74%
			1750	1.524	51.429	1.488	53.432	2.42%	-3.75%
			1770	1.545	51.344	1.501	53.379	2.93%	-3.81%
10/02/2020	1750B	21.8	1710	1.482	52.550	1.463	53.537	1.30%	-1.84%
			1720	1.494	52.510	1.469	53.511	1.70%	-1.87%
			1745	1.521	52.419	1.485	53.445	2.42%	-1.92%
			1750	1.526	52.402	1.488	53.432	2.55%	-1.93%
			1770	1.546	52.319	1.501	53.379	3.00%	-1.99%
10/07/2020	1750B	21.8	1710	1.474	52.627	1.463	53.537	0.75%	-1.70%
			1720	1.485	52.582	1.469	53.511	1.09%	-1.74%
			1745	1.516	52.470	1.485	53.445	2.09%	-1.82%
			1750	1.522	52.450	1.488	53.432	2.28%	-1.84%
			1770	1.545	52.385	1.501	53.379	2.93%	-1.86%
			1790	1.567	52.318	1.514	53.326	3.50%	-1.89%
10/12/2020	1750B	21.2	1720	1.491	51.572	1.469	53.511	1.50%	-3.62%
			1745	1.520	51.461	1.485	53.445	2.36%	-3.71%
			1750	1.525	51.440	1.488	53.432	2.49%	-3.73%
			1770	1.547	51.361	1.501	53.379	3.06%	-3.78%
			1790	1.567	51.278	1.514	53.326	3.50%	-3.84%
10/26/2020	1750B	21.8	1745	1.516	51.738	1.485	53.445	2.09%	-3.19%
			1750	1.522	51.719	1.488	53.432	2.28%	-3.21%
			1770	1.545	51.638	1.501	53.379	2.93%	-3.26%
11/03/2020	1750B	22.0	1745	1.530	50.948	1.485	53.445	3.03%	-4.67%
			1750	1.535	50.931	1.488	53.432	3.16%	-4.68%
			1770	1.556	50.865	1.501	53.379	3.66%	-4.71%
11/20/2020	1750B	22.8	1745	1.494	51.567	1.485	53.445	0.61%	-3.51%
			1750	1.499	51.550	1.488	53.432	0.74%	-3.52%
			1770	1.522	51.491	1.501	53.379	1.40%	-3.54%
10/05/2020	1900B	24.2	1850	1.522	51.840	1.520	53.300	0.13%	-2.74%
			1860	1.532	51.808	1.520	53.300	0.79%	-2.80%
			1880	1.554	51.733	1.520	53.300	2.24%	-2.94%
			1900	1.576	51.645	1.520	53.300	3.68%	-3.11%
			1905	1.581	51.624	1.520	53.300	4.01%	-3.14%
			1910	1.587	51.605	1.520	53.300	4.41%	-3.18%
10/08/2020	1900B	23.5	1850	1.524	51.602	1.520	53.300	0.26%	-3.19%
			1860	1.535	51.569	1.520	53.300	0.99%	-3.25%
			1880	1.557	51.495	1.520	53.300	2.43%	-3.39%
			1900	1.579	51.424	1.520	53.300	3.88%	-3.52%
			1905	1.585	51.407	1.520	53.300	4.28%	-3.55%
			1910	1.591	51.392	1.520	53.300	4.67%	-3.58%
10/11/2020	1900B	24.5	1850	1.487	53.917	1.520	53.300	-2.17%	1.16%
			1860	1.497	53.888	1.520	53.300	-1.51%	1.10%
			1880	1.518	53.820	1.520	53.300	-0.13%	0.98%
			1900	1.539	53.749	1.520	53.300	1.25%	0.84%
			1905	1.545	53.734	1.520	53.300	1.64%	0.81%
			1910	1.550	53.718	1.520	53.300	1.97%	0.78%
10/18/2020	1900B	21.6	1850	1.505	52.980	1.520	53.300	-0.99%	-0.60%
			1860	1.517	52.947	1.520	53.300	-0.20%	-0.66%
			1880	1.539	52.876	1.520	53.300	1.25%	-0.80%
			1900	1.561	52.802	1.520	53.300	2.70%	-0.93%
			1905	1.566	52.784	1.520	53.300	3.03%	-0.97%
			1910	1.572	52.766	1.520	53.300	3.42%	-1.00%
11/02/2020	1900B	24.9	1860	1.520	52.689	1.520	53.300	0.00%	-1.15%
			1880	1.542	52.629	1.520	53.300	1.45%	-1.26%
			1900	1.564	52.562	1.520	53.300	2.89%	-1.38%
			1905	1.569	52.546	1.520	53.300	3.22%	-1.41%
11/05/2020	1900B	23.9	1880	1.539	51.602	1.520	53.300	1.25%	-3.19%
			1900	1.563	51.531	1.520	53.300	2.83%	-3.32%
			1905	1.568	51.515	1.520	53.300	3.16%	-3.35%

Table 10-3
Measured Body Tissue Properties (Cont.)

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
10/26/2020	2300-2450B	22.2	2300	1.867	52.928	1.809	52.900	3.21%	0.05%
			2310	1.880	52.911	1.816	52.887	3.52%	0.05%
			2400	1.984	52.653	1.902	52.767	4.31%	-0.22%
			2450	2.044	52.528	1.950	52.700	4.82%	-0.33%
			2480	2.081	52.411	1.993	52.662	4.42%	-0.48%
11/05/2020	2300B	22.7	2300	1.861	53.037	1.809	52.900	2.87%	0.26%
			2310	1.872	53.010	1.816	52.887	3.08%	0.23%
			2320	1.883	52.983	1.826	52.873	3.12%	0.21%
11/08/2020	2300-2600B	23.1	2300	1.869	52.176	1.809	52.900	3.32%	-1.37%
			2310	1.880	52.146	1.816	52.887	3.52%	-1.40%
			2450	2.045	51.711	1.950	52.700	4.87%	-1.88%
			2510	2.116	51.535	2.035	52.623	3.98%	-2.07%
			2535	2.144	51.453	2.071	52.592	3.52%	-2.17%
			2560	2.173	51.362	2.106	52.560	3.18%	-2.28%
			2600	2.222	51.247	2.163	52.509	2.73%	-2.40%
11/05/2020	2450B	22.5	2400	1.919	52.025	1.902	52.767	0.89%	-1.41%
			2450	1.986	51.832	1.950	52.700	1.85%	-1.65%
			2480	2.027	51.730	1.993	52.662	1.71%	-1.77%
11/12/2020	2450-2600B	23.5	2450	2.044	51.152	1.950	52.700	4.82%	-2.94%
			2500	2.099	51.021	2.021	52.636	3.86%	-3.07%
			2510	2.111	50.986	2.035	52.623	3.73%	-3.11%
			2535	2.141	50.895	2.071	52.592	3.38%	-3.23%
			2550	2.160	50.850	2.092	52.573	3.25%	-3.28%
			2560	2.173	50.825	2.106	52.560	3.18%	-3.30%
			2600	2.219	50.728	2.163	52.509	2.59%	-3.39%
			2650	2.279	50.545	2.234	52.445	2.01%	-3.62%
			2680	2.317	50.471	2.277	52.407	1.76%	-3.69%
11/15/2020	2450-2600B	23.5	2450	1.996	50.538	1.950	52.700	2.36%	-4.10%
			2500	2.050	50.421	2.021	52.636	1.43%	-4.21%
			2510	2.061	50.388	2.035	52.623	1.28%	-4.25%
			2535	2.091	50.306	2.071	52.592	0.97%	-4.35%
			2550	2.110	50.268	2.092	52.573	0.86%	-4.38%
			2560	2.122	50.248	2.106	52.560	0.76%	-4.40%
			2600	2.163	50.145	2.163	52.509	0.00%	-4.50%
			2650	2.224	49.982	2.234	52.445	-0.45%	-4.70%
			2680	2.257	49.909	2.277	52.407	-0.88%	-4.77%
10/19/2020	3600B	22.0	3500	3.390	49.582	3.314	51.321	2.29%	-3.39%
			3560	3.454	49.508	3.384	51.240	2.07%	-3.38%
			3600	3.495	49.442	3.431	51.186	1.87%	-3.41%
			3650	3.547	49.353	3.489	51.118	1.66%	-3.45%
			3690	3.586	49.295	3.536	51.063	1.41%	-3.46%
			3700	3.601	49.269	3.548	51.050	1.49%	-3.49%
11/18/2020	3600B	20.2	3500	3.315	51.844	3.314	51.321	0.03%	1.02%
			3560	3.389	51.749	3.384	51.240	0.15%	0.99%
			3600	3.434	51.645	3.431	51.186	0.09%	0.90%
			3650	3.506	51.557	3.489	51.118	0.49%	0.86%
			3690	3.552	51.481	3.536	51.063	0.45%	0.82%
			3700	3.566	51.447	3.548	51.050	0.51%	0.78%
			3750	3.634	51.370	3.606	50.982	0.78%	0.76%
			3900	3.828	51.088	3.781	50.779	1.24%	0.61%
			3930	3.875	51.008	3.816	50.738	1.55%	0.53%
12/01/2020	3600B	20.0	3700	3.585	49.042	3.548	51.050	1.04%	-3.93%
			3750	3.653	48.936	3.606	50.982	1.30%	-4.01%
			3900	3.845	48.653	3.781	50.779	1.69%	-4.19%
			3930	3.890	48.582	3.816	50.738	1.94%	-4.25%
10/09/2020	5200-5800B	23.0	5250	5.503	48.336	5.358	48.947	2.71%	-1.25%
			5260	5.515	48.304	5.369	48.933	2.72%	-1.29%
			5290	5.555	48.224	5.404	48.892	2.79%	-1.37%
			5300	5.571	48.220	5.416	48.879	2.86%	-1.35%
			5320	5.596	48.192	5.439	48.851	2.89%	-1.35%
			5500	5.830	47.905	5.650	48.607	3.19%	-1.44%
			5530	5.880	47.861	5.685	48.566	3.43%	-1.45%
			5600	5.966	47.754	5.766	48.471	3.47%	-1.48%
			5750	6.182	47.489	5.942	48.268	4.04%	-1.61%
			5785	6.223	47.427	5.982	48.220	4.03%	-1.64%
11/22/2020	5200-5800B	22.5	5250	5.532	46.984	5.358	48.947	3.25%	-4.01%
			5600	6.000	46.370	5.766	48.471	4.06%	-4.33%
			5750	6.218	46.134	5.942	48.268	4.64%	-4.42%
			5775	6.247	46.056	5.971	48.234	4.62%	-4.52%
			5785	6.260	46.039	5.982	48.220	4.65%	-4.52%

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.

10.2 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 10-4
System Verification Results – 1g Head

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 SAR_{1g} (W/kg)	1 W Target SAR_{1g} (W/kg)	1 W Normalized SAR_{1g} (W/kg)	$Deviation_{1g}$ (%)
D	750	HEAD	10/07/2020	23.2	22.2	0.200	1161	7488	1.620	8.030	8.100	0.87%
E	750	HEAD	11/17/2020	23.7	22.1	0.200	1054	3589	1.740	8.630	8.700	0.81%
P	750	HEAD	12/14/2020	22.5	20.4	0.200	1161	7308	1.560	8.030	7.800	-2.86%
E	835	HEAD	11/08/2020	22.9	22.7	0.200	4d133	3589	2.000	9.430	10.000	6.04%
D	835	HEAD	11/11/2020	23.1	22.8	0.200	4d133	7488	2.000	9.430	10.000	6.04%
D	835	HEAD	11/16/2020	22.4	21.8	0.200	4d047	7488	2.020	9.420	10.100	7.22%
E	1750	HEAD	11/10/2020	23.0	22.2	0.100	1008	3589	3.590	36.200	35.900	-0.83%
L	1750	HEAD	11/15/2020	21.3	20.4	0.100	1148	7539	3.740	35.900	37.400	4.18%
L	1750	HEAD	11/17/2020	24.1	22.3	0.100	1148	7539	3.500	35.900	35.000	-2.51%
L	1900	HEAD	10/21/2020	24.6	24.5	0.100	5d148	7406	4.140	39.100	41.400	5.88%
L	1900	HEAD	10/26/2020	20.6	24.0	0.100	5d148	7406	4.170	39.100	41.700	6.65%
E	2300	HEAD	10/25/2020	23.2	24.0	0.100	1073	3589	5.160	49.200	51.600	4.88%
E	2450	HEAD	10/18/2020	23.2	22.8	0.100	981	3589	5.290	52.300	52.900	1.15%
E	2450	HEAD	11/05/2020	23.8	22.3	0.100	981	3589	5.190	52.300	51.900	-0.76%
E	2450	HEAD	11/23/2020	24.3	22.0	0.100	981	3589	5.150	52.300	51.500	-1.53%
E	2600	HEAD	10/18/2020	23.2	22.8	0.100	1004	3589	5.710	55.900	57.100	2.15%
E	2600	HEAD	11/11/2020	22.7	24.0	0.100	1004	3589	5.490	55.900	54.900	-1.79%
L	3500	HEAD	11/23/2020	21.4	21.7	0.100	1097	7539	6.720	66.400	67.200	1.20%
L	3700	HEAD	11/23/2020	21.4	21.7	0.100	1067	7539	7.170	67.200	71.700	6.70%
L	3900	HEAD	11/23/2020	21.4	21.7	0.100	1056	7539	7.310	68.900	73.100	6.10%
H	5250	HEAD	10/26/2020	23.4	22.4	0.050	1057	7357	3.620	79.200	72.400	-8.59%
H	5600	HEAD	10/26/2020	23.4	22.4	0.050	1057	7357	3.890	84.100	77.800	-7.49%
H	5750	HEAD	10/26/2020	23.4	22.4	0.050	1057	7357	3.760	80.500	75.200	-6.58%

Table 10-5
System Verification Results – 1g Body

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 SAR_{1g} (W/kg)	1 W Target SAR_{1g} (W/kg)	1 W Normalized SAR_{1g} (W/kg)	$Deviation_{1g}$ (%)
O	750	BODY	10/08/2020	24.3	22.6	0.200	1054	7547	1.750	8.530	8.750	2.58%
O	750	BODY	10/10/2020	22.8	21.6	0.200	1054	7547	1.720	8.530	8.600	0.82%
O	750	BODY	10/12/2020	22.6	21.9	0.200	1054	7547	1.740	8.530	8.700	1.99%
O	750	BODY	11/09/2020	22.5	22.0	0.200	1161	7547	1.760	8.430	8.800	4.39%
I	835	BODY	10/14/2020	22.2	21.1	0.200	4d133	7570	1.940	9.750	9.700	-0.51%
I	835	BODY	10/19/2020	21.6	21.4	0.200	4d133	7570	1.850	9.750	9.250	-5.13%
I	835	BODY	10/21/2020	23.7	21.4	0.200	4d133	7570	1.820	9.750	9.100	-6.67%
D	835	BODY	11/09/2020	22.3	21.9	0.200	4d047	7488	1.910	9.470	9.550	0.84%
G	1750	BODY	09/29/2020	22.1	21.5	0.100	1148	7538	3.670	36.300	36.700	1.10%
G	1750	BODY	10/02/2020	22.1	21.8	0.100	1148	7538	3.740	36.300	37.400	3.03%
G	1750	BODY	10/07/2020	23.4	21.8	0.100	1008	7538	3.690	37.400	36.900	-1.34%
P	1750	BODY	10/26/2020	20.5	20.1	0.100	1150	7308	3.820	36.600	38.200	4.37%
D	1750	BODY	11/20/2020	23.1	22.8	0.100	1008	7488	3.760	37.400	37.600	0.53%
H	1900	BODY	10/05/2020	23.2	22.5	0.100	5d080	7357	4.180	39.200	41.800	6.63%
H	1900	BODY	10/08/2020	24.2	22.4	0.100	5d080	7357	4.180	39.200	41.800	6.63%
J	1900	BODY	10/11/2020	21.5	22.5	0.100	5d080	7571	4.120	39.200	41.200	5.10%
J	1900	BODY	10/18/2020	23.3	21.8	0.100	5d080	7571	4.150	39.200	41.500	5.87%
J	1900	BODY	11/02/2020	23.9	23.4	0.100	5d149	7571	3.950	39.400	39.500	0.25%
K	2300	BODY	10/26/2020	22.4	22.1	0.100	1073	7409	4.950	47.700	49.500	3.77%
K	2300	BODY	11/05/2020	22.0	21.7	0.100	1073	7409	4.670	47.700	46.700	-2.10%
K	2300	BODY	11/08/2020	22.2	23.1	0.100	1073	7409	4.970	47.700	49.700	4.19%
K	2450	BODY	10/26/2020	22.4	22.1	0.100	981	7409	5.320	50.900	53.200	4.52%
P	2450	BODY	11/05/2020	20.3	20.8	0.100	797	7308	4.960	49.400	49.600	0.40%
K	2450	BODY	11/08/2020	22.2	23.1	0.100	981	7409	5.110	50.900	51.100	0.39%
K	2450	BODY	11/12/2020	22.2	23.5	0.100	797	7409	5.000	49.400	50.000	1.21%
K	2600	BODY	11/08/2020	22.2	23.1	0.100	1004	7409	5.340	54.800	53.400	-2.55%
K	2600	BODY	11/12/2020	22.2	23.5	0.100	1064	7409	5.730	55.600	57.300	3.06%
K	2600	BODY	11/15/2020	22.0	21.8	0.100	1004	7409	5.360	54.800	53.600	-2.19%
D	3500	BODY	10/19/2020	22.9	22.0	0.100	1059	7488	6.660	65.100	66.600	2.30%
L	3500	BODY	11/18/2020	22.1	20.1	0.100	1097	7539	6.740	64.200	67.400	4.98%
D	3700	BODY	10/19/2020	22.9	22.0	0.100	1018	7488	6.270	64.300	62.700	-2.49%
L	3700	BODY	11/18/2020	22.1	20.1	0.100	1067	7539	6.800	65.200	68.000	4.29%
L	3900	BODY	11/18/2020	22.1	20.1	0.100	1056	7539	6.990	66.300	69.900	5.43%
G	5250	BODY	10/09/2020	22.4	23.0	0.050	1237	7538	3.500	75.600	70.000	-7.41%
G	5250	BODY	11/22/2020	22.0	22.5	0.050	1237	7406	3.580	75.600	71.600	-5.29%
G	5600	BODY	10/09/2020	22.4	23.0	0.050	1237	7538	3.930	78.500	78.600	0.13%
G	5600	BODY	11/22/2020	22.0	22.5	0.050	1237	7406	3.820	78.500	76.400	-2.68%
G	5750	BODY	10/09/2020	22.4	23.0	0.050	1237	7538	3.630	75.900	72.600	-4.35%
G	5750	BODY	11/22/2020	22.0	22.5	0.050	1237	7406	3.570	75.900	71.400	-5.93%

Table 10-6
System Verification Results – 10g

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 SAR_{10g} (W/kg)	1 W Target SAR_{10g} (W/kg)	1 W Normalized SAR_{10g} (W/kg)	$Deviation_{10g}$ (%)
G	1750	BODY	10/07/2020	23.4	21.8	0.100	1008	7538	1.920	19.900	19.200	-3.52%
G	1750	BODY	10/12/2020	22.0	20.8	0.100	1008	7538	1.990	19.900	19.900	0.00%
H	1750	BODY	11/03/2020	23.5	22.0	0.100	1150	7357	1.990	19.400	19.900	2.58%
J	1900	BODY	10/11/2020	21.5	22.5	0.100	5d080	7571	2.100	20.600	21.000	1.94%
J	1900	BODY	10/18/2020	23.3	21.8	0.100	5d080	7571	2.140	20.600	21.400	3.88%
J	1900	BODY	11/02/2020	23.9	23.4	0.100	5d149	7571	2.030	20.700	20.300	-1.93%
J	1900	BODY	11/05/2020	23.3	23.2	0.100	5d149	7571	2.120	20.700	21.200	2.42%
K	2300	BODY	10/26/2020	22.4	22.1	0.100	1073	7409	2.350	23.200	23.500	1.29%
K	2300	BODY	11/08/2020	22.2	23.1	0.100	1073	7409	2.350	23.200	23.500	1.29%
K	2450	BODY	11/12/2020	22.2	23.5	0.100	797	7409	2.270	23.400	22.700	-2.99%
K	2450	BODY	11/15/2020	22.0	21.8	0.100	981	7409	2.340	24.200	23.400	-3.31%
K	2600	BODY	11/12/2020	22.2	23.5	0.100	1064	7409	2.500	25.000	25.000	0.00%
K	2600	BODY	11/15/2020	22.0	21.8	0.100	1004	7409	2.360	24.700	23.600	-4.45%
L	3700	BODY	12/01/2020	23.1	20.0	0.100	1067	7539	2.450	23.300	24.500	5.15%
L	3900	BODY	12/01/2020	23.1	20.0	0.100	1056	7539	2.370	23.000	23.700	3.04%
G	5250	BODY	10/09/2020	22.4	23.0	0.050	1237	7538	0.977	21.200	19.540	-7.83%
G	5600	BODY	10/09/2020	22.4	23.0	0.050	1237	7538	1.100	22.000	22.000	0.00%
G	5750	BODY	10/09/2020	22.4	23.0	0.050	1237	7538	1.010	21.200	20.200	-4.72%

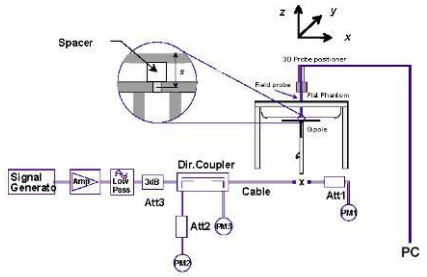


Figure 10-1
System Verification Setup Diagram

Figure 10-2
System Verification Setup Photo

11 SAR DATA SUMMARY

11.1 Standalone Head SAR Data

Table 11-1
CDMA BC10 Head SAR

MEASUREMENT RESULTS															
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Side	Test Position	Tune State	Device Serial Number	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.											(W/kg)		(W/kg)	
820.10	564	CDMA BC10 (§90S)	RC3 / SO55	25.8	24.55	-0.01	Right	Cheek	26	0724M	1:1	0.174	1.334	0.232	A1
820.10	564	CDMA BC10 (§90S)	RC3 / SO55	25.8	24.55	0.06	Right	Tilt	26	0724M	1:1	0.079	1.334	0.105	
820.10	564	CDMA BC10 (§90S)	RC3 / SO55	25.8	24.55	0.08	Left	Cheek	26	0724M	1:1	0.143	1.334	0.191	
820.10	564	CDMA BC10 (§90S)	RC3 / SO55	25.8	24.55	0.04	Left	Tilt	26	0724M	1:1	0.090	1.334	0.120	
820.10	564	CDMA BC10 (§90S)	EVDO Rev. A	25.8	24.58	0.05	Right	Cheek	26	0724M	1:1	0.144	1.324	0.191	
820.10	564	CDMA BC10 (§90S)	EVDO Rev. A	25.8	24.58	0.04	Right	Tilt	26	0724M	1:1	0.071	1.324	0.094	
820.10	564	CDMA BC10 (§90S)	EVDO Rev. A	25.8	24.58	0.09	Left	Cheek	26	0724M	1:1	0.122	1.324	0.162	
820.10	564	CDMA BC10 (§90S)	EVDO Rev. A	25.8	24.58	0.03	Left	Tilt	26	0724M	1:1	0.082	1.324	0.109	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							Head 1.6 W/kg (mW/g) averaged over 1 gram								

Table 11-2
CDMA BC0 Head SAR

MEASUREMENT RESULTS															
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Side	Test Position	Tune State	Device Serial Number	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.											(W/kg)		(W/kg)	
836.52	384	CDMA BC0 (§22H)	RC3 / SO55	25.8	24.45	-0.02	Right	Cheek	2	0724M	1:1	0.179	1.365	0.244	A2
836.52	384	CDMA BC0 (§22H)	RC3 / SO55	25.8	24.45	0.05	Right	Tilt	2	0724M	1:1	0.084	1.365	0.115	
836.52	384	CDMA BC0 (§22H)	RC3 / SO55	25.8	24.45	0.06	Left	Cheek	2	0724M	1:1	0.118	1.365	0.161	
836.52	384	CDMA BC0 (§22H)	RC3 / SO55	25.8	24.45	0.14	Left	Tilt	2	0724M	1:1	0.064	1.365	0.087	
836.52	384	CDMA BC0 (§22H)	EVDO Rev. A	25.8	24.43	0.01	Right	Cheek	2	0724M	1:1	0.144	1.371	0.197	
836.52	384	CDMA BC0 (§22H)	EVDO Rev. A	25.8	24.43	-0.17	Right	Tilt	2	0724M	1:1	0.073	1.371	0.100	
836.52	384	CDMA BC0 (§22H)	EVDO Rev. A	25.8	24.43	0.03	Left	Cheek	2	0724M	1:1	0.106	1.371	0.145	
836.52	384	CDMA BC0 (§22H)	EVDO Rev. A	25.8	24.43	0.16	Left	Tilt	2	0724M	1:1	0.066	1.371	0.090	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							Head 1.6 W/kg (mW/g) averaged over 1 gram								

Table 11-3
CDMA BC1 Head SAR

MEASUREMENT RESULTS															
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Side	Test Position	Tune State	Device Serial Number	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.											(W/kg)		(W/kg)	
1880.00	600	PCS CDMA	RC3 / SO55	24.0	23.36	0.10	Right	Cheek	74	0737M	1:1	0.056	1.159	0.065	
1880.00	600	PCS CDMA	RC3 / SO55	24.0	23.36	0.03	Right	Tilt	74	0737M	1:1	0.048	1.159	0.056	
1880.00	600	PCS CDMA	RC3 / SO55	24.0	23.36	0.05	Left	Cheek	74	0737M	1:1	0.072	1.159	0.083	
1880.00	600	PCS CDMA	RC3 / SO55	24.0	23.36	0.06	Left	Tilt	74	0737M	1:1	0.043	1.159	0.050	
1880.00	600	PCS CDMA	EVDO Rev. A	24.0	23.20	0.05	Right	Cheek	74	0737M	1:1	0.052	1.202	0.063	
1880.00	600	PCS CDMA	EVDO Rev. A	24.0	23.20	0.08	Right	Tilt	74	0737M	1:1	0.041	1.202	0.049	
1880.00	600	PCS CDMA	EVDO Rev. A	24.0	23.20	0.05	Left	Cheek	74	0737M	1:1	0.077	1.202	0.093	A3
1880.00	600	PCS CDMA	EVDO Rev. A	24.0	23.20	0.03	Left	Tilt	74	0737M	1:1	0.037	1.202	0.044	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							Head 1.6 W/kg (mW/g) averaged over 1 gram								

Table 11-4
GSM 850 Head SAR

MEASUREMENT RESULTS														
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Side	Test Position	Device Serial Number	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.										(W/kg)		(W/kg)	
836.60	190	GSM 850	GSM	33.5	32.17	0.04	Right	Cheek	0735M	1:8.3	0.086	1.358	0.117	A4
836.60	190	GSM 850	GSM	33.5	32.17	0.07	Right	Tilt	0735M	1:8.3	0.042	1.358	0.057	
836.60	190	GSM 850	GSM	33.5	32.17	0.03	Left	Cheek	0735M	1:8.3	0.067	1.358	0.091	
836.60	190	GSM 850	GSM	33.5	32.17	0.04	Left	Tilt	0735M	1:8.3	0.037	1.358	0.050	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							Head 1.6 W/kg (mW/g) averaged over 1 gram							

Table 11-5
GSM 1900 Head SAR

MEASUREMENT RESULTS														
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Side	Test Position	Device Serial Number	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.										(W/kg)		(W/kg)	
1880.00	661	GSM 1900	GSM	30.0	28.93	0.07	Right	Cheek	0691M	1:8.3	0.017	1.279	0.022	
1880.00	661	GSM 1900	GSM	30.0	28.93	0.08	Right	Tilt	0691M	1:8.3	0.015	1.279	0.019	
1880.00	661	GSM 1900	GSM	30.0	28.93	-0.03	Left	Cheek	0691M	1:8.3	0.027	1.279	0.035	A5
1880.00	661	GSM 1900	GSM	30.0	28.93	0.03	Left	Tilt	0691M	1:8.3	0.011	1.279	0.014	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							Head 1.6 W/kg (mW/g) averaged over 1 gram							

Table 11-6
UMTS 850 Head SAR

MEASUREMENT RESULTS															
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Side	Test Position	Tune State	Device Serial Number	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.											(W/kg)		(W/kg)	
836.60	4183	UMTS 850	RMC	25.5	24.70	0.01	Right	Cheek	26	0724M	1:1	0.174	1.202	0.209	A6
836.60	4183	UMTS 850	RMC	25.5	24.70	0.08	Right	Tilt	26	0724M	1:1	0.083	1.202	0.100	
836.60	4183	UMTS 850	RMC	25.5	24.70	0.09	Left	Cheek	26	0724M	1:1	0.122	1.202	0.147	
836.60	4183	UMTS 850	RMC	25.5	24.70	0.02	Left	Tilt	26	0724M	1:1	0.071	1.202	0.085	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population								Head 1.6 W/kg (mW/g) averaged over 1 gram							

Table 11-7
UMTS 1750 Head SAR

MEASUREMENT RESULTS															
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Side	Test Position	Tune State	Device Serial Number	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.											(W/kg)		(W/kg)	
1732.40	1412	UMTS 1750	RMC	24.0	23.92	0.06	Right	Cheek	57	0737M	1:1	0.075	1.019	0.076	
1732.40	1412	UMTS 1750	RMC	24.0	23.92	0.07	Right	Tilt	57	0737M	1:1	0.067	1.019	0.068	
1732.40	1412	UMTS 1750	RMC	24.0	23.92	-0.15	Left	Cheek	57	0737M	1:1	0.139	1.019	0.142	A7
1732.40	1412	UMTS 1750	RMC	24.0	23.92	0.13	Left	Tilt	57	0737M	1:1	0.089	1.019	0.091	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population								Head 1.6 W/kg (mW/g) averaged over 1 gram							

Table 11-8
UMTS 1900 Head SAR

MEASUREMENT RESULTS															
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Side	Test Position	Tune State	Device Serial Number	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.											(W/kg)		(W/kg)	
1880.00	9400	UMTS 1900	RMC	24.0	23.21	0.03	Right	Cheek	21	0737M	1:1	0.049	1.199	0.059	
1880.00	9400	UMTS 1900	RMC	24.0	23.21	0.04	Right	Tilt	21	0737M	1:1	0.049	1.199	0.059	
1880.00	9400	UMTS 1900	RMC	24.0	23.21	0.06	Left	Cheek	21	0737M	1:1	0.080	1.199	0.096	A8
1880.00	9400	UMTS 1900	RMC	24.0	23.21	-0.02	Left	Tilt	21	0737M	1:1	0.044	1.199	0.053	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population								Head 1.6 W/kg (mW/g) averaged over 1 gram							

Table 11-9
LTE Band 71 Head SAR

MEASUREMENT RESULTS																				
FREQUENCY			Mode	Bandwidth [MHz]	Tune State	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Side	Test Position	Modulation	RB Size	RB Offset	Device Serial Number	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.																(W/kg)		(W/kg)	
680.50	133297	Mid	LTE Band 71	20	0	25.8	25.29	0.13	0	Right	Cheek	QPSK	1	50	0693M	1:1	0.133	1.125	0.150	A9
680.50	133297	Mid	LTE Band 71	20	0	24.8	24.37	0.07	1	Right	Cheek	QPSK	50	25	0693M	1:1	0.108	1.104	0.119	
680.50	133297	Mid	LTE Band 71	20	0	25.8	25.29	0.09	0	Right	Tilt	QPSK	1	50	0693M	1:1	0.040	1.125	0.045	
680.50	133297	Mid	LTE Band 71	20	0	24.8	24.37	0.03	1	Right	Tilt	QPSK	50	25	0693M	1:1	0.029	1.104	0.032	
680.50	133297	Mid	LTE Band 71	20	0	25.8	25.29	0.02	0	Left	Cheek	QPSK	1	50	0693M	1:1	0.103	1.125	0.116	
680.50	133297	Mid	LTE Band 71	20	0	24.8	24.37	0.14	1	Left	Cheek	QPSK	50	25	0693M	1:1	0.079	1.104	0.087	
680.50	133297	Mid	LTE Band 71	20	0	25.8	25.29	0.19	0	Left	Tilt	QPSK	1	50	0693M	1:1	0.049	1.125	0.055	
680.50	133297	Mid	LTE Band 71	20	0	24.8	24.37	0.03	1	Left	Tilt	QPSK	50	25	0693M	1:1	0.041	1.104	0.045	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population										Head 1.6 W/kg (mW/g) averaged over 1 gram										

Table 11-10
LTE Band 12 Head SAR

MEASUREMENT RESULTS																				
FREQUENCY			Mode	Bandwidth [MHz]	Tune State	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Side	Test Position	Modulation	RB Size	RB Offset	Device Serial Number	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.																(W/kg)		(W/kg)	
707.50	23095	Mid	LTE Band 12	10	0	25.8	25.30	0.00	0	Right	Cheek	QPSK	1	0	0715M	1:1	0.151	1.122	0.169	A10
707.50	23095	Mid	LTE Band 12	10	0	24.8	24.38	0.03	1	Right	Cheek	QPSK	25	12	0715M	1:1	0.129	1.102	0.142	
707.50	23095	Mid	LTE Band 12	10	0	25.8	25.30	-0.05	0	Right	Tilt	QPSK	1	0	0715M	1:1	0.069	1.122	0.077	
707.50	23095	Mid	LTE Band 12	10	0	24.8	24.38	0.07	1	Right	Tilt	QPSK	25	12	0715M	1:1	0.059	1.102	0.065	
707.50	23095	Mid	LTE Band 12	10	0	25.8	25.30	0.02	0	Left	Cheek	QPSK	1	0	0715M	1:1	0.133	1.122	0.149	
707.50	23095	Mid	LTE Band 12	10	0	24.8	24.38	0.09	1	Left	Cheek	QPSK	25	12	0715M	1:1	0.118	1.102	0.130	
707.50	23095	Mid	LTE Band 12	10	0	25.8	25.30	0.02	0	Left	Tilt	QPSK	1	0	0715M	1:1	0.079	1.122	0.089	
707.50	23095	Mid	LTE Band 12	10	0	24.8	24.38	0.19	1	Left	Tilt	QPSK	25	12	0715M	1:1	0.072	1.102	0.079	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population										Head 1.6 W/kg (mW/g) averaged over 1 gram										

Table 11-11
LTE Band 13 Head SAR

MEASUREMENT RESULTS																				
FREQUENCY			Mode	Bandwidth [MHz]	Tune State	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Side	Test Position	Modulation	RB Size	RB Offset	Device Serial Number	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.																(W/kg)		(W/kg)	
782.00	23230	Mid	LTE Band 13	10	108	25.8	25.33	0.05	0	Right	Cheek	QPSK	1	0	0715M	1:1	0.175	1.114	0.195	A11
782.00	23230	Mid	LTE Band 13	10	108	24.8	24.27	0.10	1	Right	Cheek	QPSK	25	12	0715M	1:1	0.148	1.130	0.167	
782.00	23230	Mid	LTE Band 13	10	108	25.8	25.33	-0.09	0	Right	Tilt	QPSK	1	0	0715M	1:1	0.085	1.114	0.095	
782.00	23230	Mid	LTE Band 13	10	108	24.8	24.27	0.03	1	Right	Tilt	QPSK	25	12	0715M	1:1	0.066	1.130	0.075	
782.00	23230	Mid	LTE Band 13	10	108	25.8	25.33	-0.02	0	Left	Cheek	QPSK	1	0	0715M	1:1	0.143	1.114	0.159	
782.00	23230	Mid	LTE Band 13	10	108	24.8	24.27	0.08	1	Left	Cheek	QPSK	25	12	0715M	1:1	0.110	1.130	0.124	
782.00	23230	Mid	LTE Band 13	10	108	25.8	25.33	-0.02	0	Left	Tilt	QPSK	1	0	0715M	1:1	0.088	1.114	0.098	
782.00	23230	Mid	LTE Band 13	10	108	24.8	24.27	-0.05	1	Left	Tilt	QPSK	25	12	0715M	1:1	0.071	1.130	0.080	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population										Head 1.6 W/kg (mW/g) averaged over 1 gram										

Table 11-12
LTE Band 14 Head SAR

MEASUREMENT RESULTS																					
FREQUENCY			Mode	Bandwidth [MHz]	Tune State	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Side	Test Position	Modulation	RB Size	RB Offset	Device Serial Number	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.																(W/kg)		(W/kg)	
793.00	23330	Mid	LTE Band 14	10	108	25.8	25.30	0.07	0	Right	Cheek	QPSK	1	0	0715M	1:1	0.168	1.122	0.188	A12
793.00	23330	Mid	LTE Band 14	10	108	24.8	24.27	0.05	1	Right	Cheek	QPSK	25	12	0715M	1:1	0.139	1.130	0.157	
793.00	23330	Mid	LTE Band 14	10	108	25.8	25.30	0.03	0	Right	Tilt	QPSK	1	0	0715M	1:1	0.077	1.122	0.086	
793.00	23330	Mid	LTE Band 14	10	108	24.8	24.27	-0.01	1	Right	Tilt	QPSK	25	12	0715M	1:1	0.064	1.130	0.072	
793.00	23330	Mid	LTE Band 14	10	108	25.8	25.30	0.11	0	Left	Cheek	QPSK	1	0	0715M	1:1	0.120	1.122	0.135	
793.00	23330	Mid	LTE Band 14	10	108	24.8	24.27	0.07	1	Left	Cheek	QPSK	25	12	0715M	1:1	0.106	1.130	0.120	
793.00	23330	Mid	LTE Band 14	10	108	25.8	25.30	0.06	0	Left	Tilt	QPSK	1	0	0715M	1:1	0.066	1.122	0.074	
793.00	23330	Mid	LTE Band 14	10	108	24.8	24.27	0.06	1	Left	Tilt	QPSK	25	12	0715M	1:1	0.058	1.130	0.066	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population												Head 1.6 W/kg (mW/g) averaged over 1 gram								

Table 11-13
LTE Band 26 (Cell) Head SAR

MEASUREMENT RESULTS																					
FREQUENCY			Mode	Bandwidth [MHz]	Tune State	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Side	Test Position	Modulation	RB Size	RB Offset	Device Serial Number	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.																(W/kg)		(W/kg)	
831.50	26865	Mid	LTE Band 26 (Cell)	15	28	25.8	25.10	-0.07	0	Right	Cheek	QPSK	1	0	0693M	1:1	0.166	1.175	0.195	A13
831.50	26865	Mid	LTE Band 26 (Cell)	15	28	24.8	24.30	0.04	1	Right	Cheek	QPSK	36	0	0693M	1:1	0.129	1.122	0.145	
831.50	26865	Mid	LTE Band 26 (Cell)	15	28	25.8	25.10	0.05	0	Right	Tilt	QPSK	1	0	0693M	1:1	0.080	1.175	0.094	
831.50	26865	Mid	LTE Band 26 (Cell)	15	28	24.8	24.30	0.13	1	Right	Tilt	QPSK	36	0	0693M	1:1	0.060	1.122	0.067	
831.50	26865	Mid	LTE Band 26 (Cell)	15	28	25.8	25.10	-0.01	0	Left	Cheek	QPSK	1	0	0693M	1:1	0.107	1.175	0.126	
831.50	26865	Mid	LTE Band 26 (Cell)	15	28	24.8	24.30	0.02	1	Left	Cheek	QPSK	36	0	0693M	1:1	0.089	1.122	0.100	
831.50	26865	Mid	LTE Band 26 (Cell)	15	28	25.8	25.10	0.07	0	Left	Tilt	QPSK	1	0	0693M	1:1	0.068	1.175	0.080	
831.50	26865	Mid	LTE Band 26 (Cell)	15	28	24.8	24.30	0.08	1	Left	Tilt	QPSK	36	0	0693M	1:1	0.057	1.122	0.064	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population												Head 1.6 W/kg (mW/g) averaged over 1 gram								

Table 11-14
LTE Band 5 (Cell) Head SAR

MEASUREMENT RESULTS																						
1 CC Uplink | 2 CC Uplink	Component Carrier	FREQUENCY			Mode	Bandwidth [MHz]	Tune State	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Side	Test Position	Modulation	RB Size	RB Offset	Device Serial Number	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
		MHz	Ch.																(W/kg)		(W/kg)	
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	26	25.8	24.71	-0.04	0	Right	Cheek	QPSK	1	49	0714M	1:1	0.172	1.285	0.221	
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	26	24.8	23.67	0.00	1	Right	Cheek	QPSK	25	25	0714M	1:1	0.141	1.297	0.183	
2 CC Uplink	PCC	836.50	20525	Mid	LTE Band 5 (Cell)	10	26	25.8	24.99	0.00	0	Right	Cheek	QPSK	1	49	0714M	1:1	0.182	1.205	0.219	A14
	SCC	843.70	20597			5										0						
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	26	25.8	24.71	0.07	0	Right	Tilt	QPSK	1	49	0714M	1:1	0.079	1.285	0.102	
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	26	24.8	23.67	0.08	1	Right	Tilt	QPSK	25	25	0714M	1:1	0.068	1.297	0.088	
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	26	25.8	24.71	0.02	0	Left	Cheek	QPSK	1	49	0714M	1:1	0.133	1.285	0.171	
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	26	24.8	23.67	0.03	1	Left	Cheek	QPSK	25	25	0714M	1:1	0.099	1.297	0.128	
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	26	25.8	24.71	0.17	0	Left	Tilt	QPSK	1	49	0714M	1:1	0.085	1.285	0.109	
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	26	24.8	23.67	0.06	1	Left	Tilt	QPSK	25	25	0714M	1:1	0.061	1.297	0.079	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population														Head 1.6 W/kg (mW/g) averaged over 1 gram								

Table 11-15
LTE Band 66 (AWS) Head SAR

MEASUREMENT RESULTS																							
1 CC Uplink | 2 CC Uplink	Component Carrier	FREQUENCY			Mode	Bandwidth [MHz]	Tune State	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Side	Test Position	Modulation	RB Size	RB Offset	Device Serial Number	Duty Cycle	SAR (1g) (W/kg)	Scaling Factor	Reported SAR (1g) (W/kg)	Plot #
		MHz	Ch.																			
1 CC Uplink	N/A	1720.00	132072	Low	LTE Band 66 (AWS)	20	0	24.0	23.36	-0.16	0	Right	Cheek	QPSK	1	50	0683M	1:1	0.083	1.159	0.096	
1 CC Uplink	N/A	1720.00	132072	Low	LTE Band 66 (AWS)	20	0	23.0	22.40	-0.02	1	Right	Cheek	QPSK	50	25	0683M	1:1	0.064	1.148	0.073	
1 CC Uplink	N/A	1720.00	132072	Low	LTE Band 66 (AWS)	20	0	24.0	23.36	-0.16	0	Right	Tilt	QPSK	1	50	0683M	1:1	0.071	1.159	0.082	
1 CC Uplink	N/A	1720.00	132072	Low	LTE Band 66 (AWS)	20	0	23.0	22.40	0.02	1	Right	Tilt	QPSK	50	25	0683M	1:1	0.061	1.148	0.070	
1 CC Uplink	N/A	1720.00	132072	Low	LTE Band 66 (AWS)	20	0	24.0	23.36	-0.14	0	Left	Cheek	QPSK	1	50	0683M	1:1	0.139	1.159	0.161	
1 CC Uplink	N/A	1720.00	132072	Low	LTE Band 66 (AWS)	20	0	24.0	23.17	-0.07	0	Left	Cheek	QPSK	1	99	0683M	1:1	0.125	1.211	0.151	
1 CC Uplink	N/A	1720.00	132072	Low	LTE Band 66 (AWS)	20	0	23.0	22.40	-0.04	1	Left	Cheek	QPSK	50	25	0683M	1:1	0.110	1.148	0.126	
1 CC Uplink	N/A	1715.00	132022	Low	LTE Band 66 (AWS)	10	0	24.0	23.09	-0.03	0	Left	Cheek	QPSK	1	49	0683M	1:1	0.123	1.233	0.152	
2 CC Uplink CA_66C	PCC	1720.00	132072	Low	LTE Band 66 (AWS)	20	0	24.0	23.90	-0.03	0	Left	Cheek	QPSK	1	99	0683M	1:1	0.147	1.023	0.150	A15
	SCC	1739.80	132270													0						
2 CC Uplink CA_66B	PCC	1715.00	132022	Low	LTE Band 66 (AWS)	10	0	24.0	23.72	-0.04	0	Left	Cheek	QPSK	1	49	0683M	1:1	0.141	1.067	0.150	
	SCC	1724.90	132121													0						
1 CC Uplink	N/A	1720.00	132072	Low	LTE Band 66 (AWS)	20	0	24.0	23.36	-0.16	0	Left	Tilt	QPSK	1	50	0683M	1:1	0.095	1.159	0.110	
1 CC Uplink	N/A	1720.00	132072	Low	LTE Band 66 (AWS)	20	0	23.0	22.40	0.17	1	Left	Tilt	QPSK	50	25	0683M	1:1	0.085	1.148	0.098	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population														Head 1.6 W/kg (mW/g) averaged over 1 gram									

Table 11-16
LTE Band 25 (PCS) Head SAR

MEASUREMENT RESULTS																				
FREQUENCY			Mode	Bandwidth [MHz]	Tune State	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Side	Test Position	Modulation	RB Size	RB Offset	Device Serial Number	Duty Cycle	SAR (1g) (W/kg)	Scaling Factor	Reported SAR (1g) (W/kg)	Plot #
MHz	Ch.																			
1860.00	26140	Low	LTE Band 25 (PCS)	20	74	24.5	23.33	0.10	0	Right	Cheek	QPSK	1	50	0709M	1:1	0.075	1.309	0.098	
1860.00	26140	Low	LTE Band 25 (PCS)	20	74	23.5	22.44	0.14	1	Right	Cheek	QPSK	50	25	0709M	1:1	0.061	1.276	0.078	
1860.00	26140	Low	LTE Band 25 (PCS)	20	74	24.5	23.33	-0.03	0	Right	Tilt	QPSK	1	50	0709M	1:1	0.062	1.309	0.081	
1860.00	26140	Low	LTE Band 25 (PCS)	20	74	23.5	22.44	0.02	1	Right	Tilt	QPSK	50	25	0709M	1:1	0.048	1.276	0.061	
1860.00	26140	Low	LTE Band 25 (PCS)	20	74	24.5	23.33	-0.03	0	Left	Cheek	QPSK	1	50	0709M	1:1	0.135	1.309	0.177	A16
1860.00	26140	Low	LTE Band 25 (PCS)	20	74	23.5	22.44	0.17	1	Left	Cheek	QPSK	50	25	0709M	1:1	0.103	1.276	0.131	
1860.00	26140	Low	LTE Band 25 (PCS)	20	74	24.5	23.33	0.02	0	Left	Tilt	QPSK	1	50	0709M	1:1	0.055	1.309	0.072	
1860.00	26140	Low	LTE Band 25 (PCS)	20	74	23.5	22.44	0.08	1	Left	Tilt	QPSK	50	25	0709M	1:1	0.041	1.276	0.052	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population														Head 1.6 W/kg (mW/g) averaged over 1 gram						

Table 11-17
LTE Band 30 Head SAR

MEASUREMENT RESULTS																			
FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Side	Test Position	Modulation	RB Size	RB Offset	Device Serial Number	Duty Cycle	SAR (1g) (W/kg)	Scaling Factor	Reported SAR (1g) (W/kg)	Plot #
MHz	Ch.																		
2310.00	27710	Mid	LTE Band 30	10	24.0	23.13	0.00	0	Right	Cheek	QPSK	1	0	0721M	1:1	0.030	1.222	0.037	
2310.00	27710	Mid	LTE Band 30	10	23.0	22.04	0.14	1	Right	Cheek	QPSK	25	25	0721M	1:1	0.027	1.247	0.034	
2310.00	27710	Mid	LTE Band 30	10	24.0	23.13	0.06	0	Right	Tilt	QPSK	1	0	0721M	1:1	0.036	1.222	0.044	A17
2310.00	27710	Mid	LTE Band 30	10	23.0	22.04	0.03	1	Right	Tilt	QPSK	25	25	0721M	1:1	0.023	1.247	0.029	
2310.00	27710	Mid	LTE Band 30	10	24.0	23.13	0.03	0	Left	Cheek	QPSK	1	0	0721M	1:1	0.031	1.222	0.038	
2310.00	27710	Mid	LTE Band 30	10	23.0	22.04	0.02	1	Left	Cheek	QPSK	25	25	0721M	1:1	0.028	1.247	0.035	
2310.00	27710	Mid	LTE Band 30	10	24.0	23.13	0.07	0	Left	Tilt	QPSK	1	0	0721M	1:1	0.028	1.222	0.034	
2310.00	27710	Mid	LTE Band 30	10	23.0	22.04	0.11	1	Left	Tilt	QPSK	25	25	0721M	1:1	0.022	1.247	0.027	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population														Head 1.6 W/kg (mW/g) averaged over 1 gram					

Table 11-18
LTE Band 7 Head SAR

MEASUREMENT RESULTS																				
FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Side	Test Position	Modulation	RB Size	RB Offset	Device Serial Number	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.															(W/kg)		(W/kg)	
2560.00	21350	High	LTE Band 7	20	24.0	23.27	0.04	0	Right	Cheek	QPSK	1	0	0721M	1:1	0.053	1.183	0.063	
2560.00	21350	High	LTE Band 7	20	23.0	22.38	-0.09	1	Right	Cheek	QPSK	50	25	0721M	1:1	0.043	1.153	0.050	
2560.00	21350	High	LTE Band 7	20	24.0	23.27	0.04	0	Right	Tilt	QPSK	1	0	0721M	1:1	0.083	1.183	0.098	
2560.00	21350	High	LTE Band 7	20	23.0	22.38	-0.02	1	Right	Tilt	QPSK	50	25	0721M	1:1	0.080	1.153	0.092	
2560.00	21350	High	LTE Band 7	20	24.0	23.27	0.17	0	Left	Cheek	QPSK	1	0	0721M	1:1	0.091	1.183	0.108	A18
2560.00	21350	High	LTE Band 7	20	23.0	22.38	0.11	1	Left	Cheek	QPSK	50	25	0721M	1:1	0.066	1.153	0.076	
2560.00	21350	High	LTE Band 7	20	24.0	23.27	0.03	0	Left	Tilt	QPSK	1	0	0721M	1:1	0.064	1.183	0.076	
2560.00	21350	High	LTE Band 7	20	23.0	22.38	0.03	1	Left	Tilt	QPSK	50	25	0721M	1:1	0.048	1.153	0.055	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population											Head 1.6 W/kg (mW/g) averaged over 1 gram									

Table 11-19
LTE Band 48 Head 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]	Side	Test Position	Modulation	RB Size	RB Offset	Device Serial Number	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
		MHz	Ch.															(W/kg)		(W/kg)	
1 CC Uplink	N/A	3560.00	55340	Low	LTE Band 48	20	20.0	19.68	0.00	0	Right	Cheek	QPSK	1	50	3921S	1:1.58	0.427	1.076	0.459	
1 CC Uplink	N/A	3560.00	55340	Low	LTE Band 48	20	20.0	19.36	-0.14	0	Right	Cheek	QPSK	1	99	3921S	1:1.58	0.403	1.159	0.467	
1 CC Uplink	N/A	3560.00	55340	Low	LTE Band 48	20	20.0	19.79	-0.05	0	Right	Cheek	QPSK	50	25	3921S	1:1.58	0.435	1.050	0.457	
2 CC Uplink	PCC	3560.00	55340	Low	LTE Band 48	20	20.0	19.50	-0.07	0	Right	Cheek	QPSK	1	99	3921S	1:1.58	0.436	1.122	**0.489**	A19
	SCC	3579.80	55538												0						
1 CC Uplink	N/A	3560.00	55340	Low	LTE Band 48	20	20.0	19.68	0.12	0	Right	Tilt	QPSK	1	50	3921S	1:1.58	0.040	1.076	0.043	
1 CC Uplink	N/A	3560.00	55340	Low	LTE Band 48	20	20.0	19.79	0.11	0	Right	Tilt	QPSK	50	25	3921S	1:1.58	0.041	1.050	0.043	
1 CC Uplink	N/A	3560.00	55340	Low	LTE Band 48	20	20.0	19.68	0.09	0	Left	Cheek	QPSK	1	50	3921S	1:1.58	0.145	1.076	0.156	
1 CC Uplink	N/A	3560.00	55340	Low	LTE Band 48	20	20.0	19.79	-0.02	0	Left	Cheek	QPSK	50	25	3921S	1:1.58	0.152	1.050	0.160	
1 CC Uplink	N/A	3560.00	55340	Low	LTE Band 48	20	20.0	19.68	0.18	0	Left	Tilt	QPSK	1	50	3921S	1:1.58	0.073	1.076	0.079	
1 CC Uplink	N/A	3560.00	55340	Low	LTE Band 48	20	20.0	19.79	0.02	0	Left	Tilt	QPSK	50	25	3921S	1:1.58	0.077	1.050	0.081	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population													Head 1.6 W/kg (mW/g) averaged over 1 gram								

Table 11-20
LTE Band 41 Head SAR

MEASUREMENT RESULTS																					
1 CC Uplink | 2 CC Uplink, Power Class	Component Carrier	FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Side	Test Position	Modulation	RB Size	RB Offset	Device Serial Number	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
		MHz	Ch.															(W/kg)		(W/kg)	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	25.0	23.70	0.04	0	Right	Cheek	QPSK	1	0	0704M	1:1.58	0.042	1.349	0.057	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	25.0	24.00	0.03	0	Right	Cheek	QPSK	1	50	0704M	1:1.58	0.044	1.259	0.055	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	24.0	23.05	0.05	1	Right	Cheek	QPSK	50	25	0704M	1:1.58	0.035	1.245	0.044	
1 CC Uplink - Power Class 2	N/A	2680.00	41490	High	LTE Band 41	20	27.5	26.16	0.03	0	Right	Cheek	QPSK	1	0	0704M	1:2.31	0.052	1.361	0.071	
1 CC Uplink - Power Class 2	N/A	2680.00	41490	High	LTE Band 41	20	27.5	26.54	0.03	0	Right	Cheek	QPSK	1	50	0704M	1:2.31	0.055	1.247	0.069	A20
2 CC Uplink - Power Class 3	PCC	2680.00	41490	High	LTE Band 41	20	25.0	24.60	0.02	0	Right	Cheek	QPSK	1	0	0704M	1:1.58	0.052	1.096	0.057	
	SCC	2660.20	41292												99						
2 CC Uplink - Power Class 2	PCC	2680.00	41490	High	LTE Band 41	20	27.5	26.00	0.13	0	Right	Cheek	QPSK	1	0	0704M	1:2.31	0.051	1.413	0.072	
	SCC	2660.20	41292												99						
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	25.0	24.00	0.05	0	Right	Tilt	QPSK	1	50	0704M	1:1.58	0.037	1.259	0.047	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	24.0	23.05	0.04	1	Right	Tilt	QPSK	50	25	0704M	1:1.58	0.031	1.245	0.039	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	25.0	24.00	0.03	0	Left	Cheek	QPSK	1	50	0704M	1:1.58	0.041	1.259	0.052	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	24.0	23.05	0.03	1	Left	Cheek	QPSK	50	25	0704M	1:1.58	0.028	1.245	0.035	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	25.0	24.00	0.06	0	Left	Tilt	QPSK	1	50	0704M	1:1.58	0.024	1.259	0.030	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	24.0	23.05	0.08	1	Left	Tilt	QPSK	50	25	0704M	1:1.58	0.017	1.245	0.021	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population													Head 1.6 W/kg (mW/g) averaged over 1 gram								

Table 11-21
NR Band n71 Head SAR

MEASUREMENT RESULTS																							
FREQUENCY			Mode	Bandwidth [MHz]	Tune State	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Antenna Config	Power Drift [dB]	MPR [dB]	Side	Test Position	Waveform	Modulation	RB Size	RB Offset	Serial Number	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.																		(W/kg)		(W/kg)	
680.50	136100	Mid	NR Band n71	20	0	25.5	24.79	A	0.09	0	Right	Cheek	DFT-S-OFDM	QPSK	1	1	0728M	1:1	0.119	1.178	0.140	
680.50	136100	Mid	NR Band n71	20	0	25.5	24.84	A	0.03	0	Right	Cheek	DFT-S-OFDM	QPSK	50	28	0728M	1:1	0.133	1.164	0.155	A21
680.50	136100	Mid	NR Band n71	20	0	24.0	23.64	A	0.13	1.5	Right	Cheek	CP-OFDM	QPSK	1	1	0728M	1:1	0.074	1.086	0.080	
680.50	136100	Mid	NR Band n71	20	0	25.5	24.79	A	0.03	0	Right	Tilt	DFT-S-OFDM	QPSK	1	1	0728M	1:1	0.027	1.178	0.032	
680.50	136100	Mid	NR Band n71	20	0	25.5	24.84	A	0.04	0	Right	Tilt	DFT-S-OFDM	QPSK	50	28	0728M	1:1	0.033	1.164	0.038	
680.50	136100	Mid	NR Band n71	20	0	25.5	24.79	A	0.07	0	Left	Cheek	DFT-S-OFDM	QPSK	1	1	0728M	1:1	0.091	1.178	0.107	
680.50	136100	Mid	NR Band n71	20	0	25.5	24.84	A	0.17	0	Left	Cheek	DFT-S-OFDM	QPSK	50	28	0728M	1:1	0.099	1.164	0.115	
680.50	136100	Mid	NR Band n71	20	0	25.5	24.79	A	0.04	0	Left	Tilt	DFT-S-OFDM	QPSK	1	1	0728M	1:1	0.047	1.178	0.055	
680.50	136100	Mid	NR Band n71	20	0	25.5	24.84	A	0.04	0	Left	Tilt	DFT-S-OFDM	QPSK	50	28	0728M	1:1	0.049	1.164	0.057	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population												Head 1.6 W/kg (mW/g) averaged over 1 gram										

Table 11-22
NR Band n12 Head SAR

MEASUREMENT RESULTS																						
FREQUENCY			Mode	Bandwidth [MHz]	Tune State	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Antenna Config	Power Drift [dB]	MPR [dB]	Side	Test Position	Waveform	Modulation	RB Size	RB Offset	Serial Number	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.																		(W/kg)		(W/kg)	
707.50	141500	Mid	NR Band n12	15	0	25.5	24.73	A	-0.06	0	Right	Cheek	DFT-S-OFDM	QPSK	1	40	0728M	1:1	0.136	1.194	0.162	
707.50	141500	Mid	NR Band n12	15	0	25.5	24.78	A	0.13	0	Right	Cheek	DFT-S-OFDM	QPSK	36	22	0728M	1:1	0.137	1.180	0.162	A22
707.50	141500	Mid	NR Band n12	15	0	24.0	23.33	A	0.02	1.5	Right	Cheek	CP-OFDM	QPSK	1	1	0728M	1:1	0.100	1.167	0.117	
707.50	141500	Mid	NR Band n12	15	0	25.5	24.73	A	0.11	0	Right	Tilt	DFT-S-OFDM	QPSK	1	40	0728M	1:1	0.063	1.194	0.075	
707.50	141500	Mid	NR Band n12	15	0	25.5	24.78	A	0.02	0	Right	Tilt	DFT-S-OFDM	QPSK	36	22	0728M	1:1	0.062	1.180	0.073	
707.50	141500	Mid	NR Band n12	15	0	25.5	24.73	A	-0.02	0	Left	Cheek	DFT-S-OFDM	QPSK	1	40	0728M	1:1	0.119	1.194	0.142	
707.50	141500	Mid	NR Band n12	15	0	25.5	24.78	A	-0.16	0	Left	Cheek	DFT-S-OFDM	QPSK	36	22	0728M	1:1	0.129	1.180	0.152	
707.50	141500	Mid	NR Band n12	15	0	25.5	24.73	A	-0.02	0	Left	Tilt	DFT-S-OFDM	QPSK	1	40	0728M	1:1	0.076	1.194	0.091	
707.50	141500	Mid	NR Band n12	15	0	25.5	24.78	A	-0.05	0	Left	Tilt	DFT-S-OFDM	QPSK	36	22	0728M	1:1	0.085	1.180	0.100	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population												Head 1.6 W/kg (mW/g) averaged over 1 gram										

Table 11-23
NR Band n5 Head SAR

MEASUREMENT RESULTS																						
FREQUENCY			Mode	Bandwidth [MHz]	Tune State	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Antenna Config	Power Drift [dB]	MPR [dB]	Side	Test Position	Waveform	Modulation	RB Size	RB Offset	Serial Number	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.																		(W/kg)		(W/kg)	
836.50	167300	Mid	NR Band n5 (Cell)	20	26	25.5	24.64	A	-0.06	0	Right	Cheek	DFT-S-OFDM	QPSK	1	104	0679M	1:1	0.192	1.219	0.234	A23
836.50	167300	Mid	NR Band n5 (Cell)	20	26	25.5	24.68	A	0.04	0	Right	Cheek	DFT-S-OFDM	QPSK	50	28	0679M	1:1	0.183	1.208	0.221	
836.50	167300	Mid	NR Band n5 (Cell)	20	26	24.0	23.33	A	-0.02	1.5	Right	Cheek	CP-OFDM	QPSK	1	1	0679M	1:1	0.116	1.167	0.135	
836.50	167300	Mid	NR Band n5 (Cell)	20	26	25.5	24.64	A	0.04	0	Right	Tilt	DFT-S-OFDM	QPSK	1	104	0679M	1:1	0.088	1.219	0.107	
836.50	167300	Mid	NR Band n5 (Cell)	20	26	25.5	24.68	A	0.03	0	Right	Tilt	DFT-S-OFDM	QPSK	50	28	0679M	1:1	0.086	1.208	0.104	
836.50	167300	Mid	NR Band n5 (Cell)	20	26	25.5	24.64	A	0.04	0	Left	Cheek	DFT-S-OFDM	QPSK	1	104	0679M	1:1	0.144	1.219	0.176	
836.50	167300	Mid	NR Band n5 (Cell)	20	26	25.5	24.68	A	0.05	0	Left	Cheek	DFT-S-OFDM	QPSK	50	28	0679M	1:1	0.133	1.208	0.161	
836.50	167300	Mid	NR Band n5 (Cell)	20	26	25.5	24.64	A	0.01	0	Left	Tilt	DFT-S-OFDM	QPSK	1	104	0679M	1:1	0.092	1.219	0.112	
836.50	167300	Mid	NR Band n5 (Cell)	20	26	25.5	24.68	A	0.09	0	Left	Tilt	DFT-S-OFDM	QPSK	50	28	0679M	1:1	0.086	1.208	0.104	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population												Head 1.6 W/kg (mW/g) averaged over 1 gram										

Table 11-24
NR Band n66 Head SAR

MEASUREMENT RESULTS																								
FREQUENCY			Mode	Bandwidth [MHz]	Tune State	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Antenna Config	Power Drift [dB]	MPR [dB]	Side	Test Position	Waveform	Modulation	RB Size	RB Offset	Serial Number	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.																		(W/kg)		(W/kg)	
1745.00	349000	Mid	NR Band n66 (AWS)	40	0	24.8	24.48	A	0.03	0	Right	Cheek	DFT-S-OFDM	QPSK	1	108	0755M	1:1	0.075	1.076	0.081	
1745.00	349000	Mid	NR Band n66 (AWS)	40	0	24.8	24.49	A	0.03	0	Right	Cheek	DFT-S-OFDM	QPSK	108	54	0755M	1:1	0.069	1.074	0.074	
1745.00	349000	Mid	NR Band n66 (AWS)	40	0	24.8	24.48	A	0.07	0	Right	Tilt	DFT-S-OFDM	QPSK	1	108	0755M	1:1	0.077	1.076	0.083	
1745.00	349000	Mid	NR Band n66 (AWS)	40	0	24.8	24.49	A	0.03	0	Right	Tilt	DFT-S-OFDM	QPSK	108	54	0755M	1:1	0.064	1.074	0.069	
1745.00	349000	Mid	NR Band n66 (AWS)	40	0	24.8	24.48	A	0.18	0	Left	Cheek	DFT-S-OFDM	QPSK	1	108	0755M	1:1	0.131	1.076	0.141	
1745.00	349000	Mid	NR Band n66 (AWS)	40	0	24.8	24.49	A	0.13	0	Left	Cheek	DFT-S-OFDM	QPSK	108	54	0755M	1:1	0.148	1.074	0.159	
1745.00	349000	Mid	NR Band n66 (AWS)	40	0	23.3	22.95	A	-0.04	1.5	Left	Cheek	CP-OFDM	QPSK	1	1	0755M	1:1	0.121	1.084	0.131	
1745.00	349000	Mid	NR Band n66 (AWS)	40	0	24.8	24.48	A	0.03	0	Left	Tilt	DFT-S-OFDM	QPSK	1	108	0755M	1:1	0.080	1.076	0.086	
1745.00	349000	Mid	NR Band n66 (AWS)	40	0	24.8	24.49	A	0.06	0	Left	Tilt	DFT-S-OFDM	QPSK	108	54	0755M	1:1	0.091	1.074	0.098	
1745.00	349000	Mid	NR Band n66 (AWS)	40	N/A	20.0	19.27	E	0.15	0	Right	Cheek	DFT-S-OFDM	QPSK	1	108	0762M	1:1	0.542	1.183	0.641	
1745.00	349000	Mid	NR Band n66 (AWS)	40	N/A	20.0	19.17	E	0.08	0	Right	Cheek	DFT-S-OFDM	QPSK	108	0	0762M	1:1	0.568	1.211	0.688	
1745.00	349000	Mid	NR Band n66 (AWS)	40	N/A	20.0	18.83	E	0.01	0	Right	Cheek	CP-OFDM	QPSK	1	1	0762M	1:1	0.588	1.309	**0.770**	A24
1745.00	349000	Mid	NR Band n66 (AWS)	40	N/A	20.0	19.27	E	0.03	0	Right	Tilt	DFT-S-OFDM	QPSK	1	108	0762M	1:1	0.338	1.183	0.400	
1745.00	349000	Mid	NR Band n66 (AWS)	40	N/A	20.0	19.17	E	0.12	0	Right	Tilt	DFT-S-OFDM	QPSK	108	0	0762M	1:1	0.359	1.211	0.435	
1745.00	349000	Mid	NR Band n66 (AWS)	40	N/A	20.0	19.27	E	0.13	0	Left	Cheek	DFT-S-OFDM	QPSK	1	108	0762M	1:1	0.218	1.183	0.258	
1745.00	349000	Mid	NR Band n66 (AWS)	40	N/A	20.0	19.17	E	0.06	0	Left	Cheek	DFT-S-OFDM	QPSK	108	0	0762M	1:1	0.230	1.211	0.279	
1745.00	349000	Mid	NR Band n66 (AWS)	40	N/A	20.0	19.27	E	0.16	0	Left	Tilt	DFT-S-OFDM	QPSK	1	108	0762M	1:1	0.140	1.183	0.166	
1745.00	349000	Mid	NR Band n66 (AWS)	40	N/A	20.0	19.17	E	0.10	0	Left	Tilt	DFT-S-OFDM	QPSK	108	0	0762M	1:1	0.149	1.211	0.180	

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

Table 11-25
NR Band n25 Head SAR

MEASUREMENT RESULTS																								
FREQUENCY			Mode	Bandwidth [MHz]	Tune State	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Antenna Config	Power Drift [dB]	MPR [dB]	Side	Test Position	Waveform	Modulation	RB Size	RB Offset	Serial Number	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.																		(W/kg)		(W/kg)	
1882.50	376500	Mid	NR Band n25 (PCS)	40	74	24.8	24.01	A	0.03	0	Right	Cheek	DFT-S-OFDM	QPSK	1	214	0730M	1:1	0.058	1.199	0.070	
1882.50	376500	Mid	NR Band n25 (PCS)	40	74	24.8	23.98	A	0.09	0	Right	Cheek	DFT-S-OFDM	QPSK	108	54	0730M	1:1	0.063	1.208	0.076	
1882.50	376500	Mid	NR Band n25 (PCS)	40	74	24.8	24.01	A	-0.03	0	Right	Tilt	DFT-S-OFDM	QPSK	1	214	0730M	1:1	0.052	1.199	0.062	
1882.50	376500	Mid	NR Band n25 (PCS)	40	74	24.8	23.98	A	0.11	0	Right	Tilt	DFT-S-OFDM	QPSK	108	54	0730M	1:1	0.053	1.208	0.064	
1882.50	376500	Mid	NR Band n25 (PCS)	40	74	24.8	24.01	A	0.03	0	Left	Cheek	DFT-S-OFDM	QPSK	1	214	0730M	1:1	0.105	1.199	0.126	
1882.50	376500	Mid	NR Band n25 (PCS)	40	74	24.8	23.98	A	0.03	0	Left	Cheek	DFT-S-OFDM	QPSK	108	54	0730M	1:1	0.090	1.208	0.109	
1882.50	376500	Mid	NR Band n25 (PCS)	40	74	23.3	22.75	A	0.02	1.5	Left	Cheek	CP-OFDM	QPSK	1	1	0730M	1:1	0.075	1.135	0.085	
1882.50	376500	Mid	NR Band n25 (PCS)	40	74	24.8	24.01	A	0.02	0	Left	Tilt	DFT-S-OFDM	QPSK	1	214	0730M	1:1	0.048	1.199	0.058	
1882.50	376500	Mid	NR Band n25 (PCS)	40	74	24.8	23.98	A	0.13	0	Left	Tilt	DFT-S-OFDM	QPSK	108	54	0730M	1:1	0.050	1.208	0.060	
1882.50	376500	Mid	NR Band n25 (PCS)	40	N/A	20.0	19.40	E	0.02	0	Right	Cheek	DFT-S-OFDM	QPSK	1	108	0758M	1:1	0.414	1.148	0.475	
1882.50	376500	Mid	NR Band n25 (PCS)	40	N/A	20.0	19.90	E	0.03	0	Right	Cheek	DFT-S-OFDM	QPSK	108	108	0758M	1:1	0.429	1.023	0.439	
1882.50	376500	Mid	NR Band n25 (PCS)	40	N/A	20.0	19.41	E	-0.10	0	Right	Cheek	CP-OFDM	QPSK	1	1	0758M	1:1	0.431	1.146	0.494	A25
1882.50	376500	Mid	NR Band n25 (PCS)	40	N/A	20.0	19.40	E	0.06	0	Right	Tilt	DFT-S-OFDM	QPSK	1	108	0758M	1:1	0.287	1.148	0.329	
1882.50	376500	Mid	NR Band n25 (PCS)	40	N/A	20.0	19.90	E	0.05	0	Right	Tilt	DFT-S-OFDM	QPSK	108	108	0758M	1:1	0.304	1.023	0.311	
1882.50	376500	Mid	NR Band n25 (PCS)	40	N/A	20.0	19.40	E	0.10	0	Left	Cheek	DFT-S-OFDM	QPSK	1	108	0758M	1:1	0.174	1.148	0.200	
1882.50	376500	Mid	NR Band n25 (PCS)	40	N/A	20.0	19.90	E	0.02	0	Left	Cheek	DFT-S-OFDM	QPSK	108	108	0758M	1:1	0.181	1.023	0.185	
1882.50	376500	Mid	NR Band n25 (PCS)	40	N/A	20.0	19.40	E	0.10	0	Left	Tilt	DFT-S-OFDM	QPSK	1	108	0758M	1:1	0.133	1.148	0.153	
1882.50	376500	Mid	NR Band n25 (PCS)	40	N/A	20.0	19.90	E	0.03	0	Left	Tilt	DFT-S-OFDM	QPSK	108	108	0758M	1:1	0.139	1.023	0.142	

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

Table 11-26
NR Band n30 Head SAR

MEASUREMENT RESULTS																						
FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Antenna Config	Power Drift [dB]	MPR [dB]	Side	Test Position	Waveform	Modulation	RB Size	RB Offset	Serial Number	Duty Cycle	SAR (1g) (W/kg)	Scaling Factor	Reported SAR (1g) (W/kg)	Plot #
MHz	Ch.																				
2310.00	462000	Mid	NR Band n30	10	24.0	23.44	A	0.03	0	Right	Cheek	DFT-S-OFDM	QPSK	1	26	0692M	1:1	0.033	1.138	0.038	
2310.00	462000	Mid	NR Band n30	10	24.0	23.34	A	0.05	0	Right	Cheek	DFT-S-OFDM	QPSK	25	14	0692M	1:1	0.033	1.164	0.038	
2310.00	462000	Mid	NR Band n30	10	24.0	23.44	A	0.04	0	Right	Tilt	DFT-S-OFDM	QPSK	1	26	0692M	1:1	0.048	1.138	0.055	
2310.00	462000	Mid	NR Band n30	10	24.0	23.34	A	0.03	0	Right	Tilt	DFT-S-OFDM	QPSK	25	14	0692M	1:1	0.041	1.164	0.048	
2310.00	462000	Mid	NR Band n30	10	24.0	23.44	A	0.02	0	Left	Cheek	DFT-S-OFDM	QPSK	1	26	0692M	1:1	0.046	1.138	0.052	
2310.00	462000	Mid	NR Band n30	10	24.0	23.34	A	0.02	0	Left	Cheek	DFT-S-OFDM	QPSK	25	14	0692M	1:1	0.055	1.164	0.064	A26
2310.00	462000	Mid	NR Band n30	10	22.5	20.94	A	0.07	1.5	Left	Cheek	CP-OFDM	QPSK	1	1	0692M	1:1	0.021	1.432	0.030	
2310.00	462000	Mid	NR Band n30	10	24.0	23.44	A	0.06	0	Left	Tilt	DFT-S-OFDM	QPSK	1	26	0692M	1:1	0.027	1.138	0.031	
2310.00	462000	Mid	NR Band n30	10	24.0	23.34	A	0.07	0	Left	Tilt	DFT-S-OFDM	QPSK	25	14	0692M	1:1	0.028	1.164	0.033	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population										Head 1.6 W/kg (mW/g) averaged over 1 gram											

Table 11-27
NR Band n41 Head SAR

MEASUREMENT RESULTS																					
FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Antenna Config	Power Drift [dB]	MPR [dB]	Side	Test Position	Waveform	Modulation	RB Size	RB Offset	Serial Number	Duty Cycle	SAR (1g) (W/kg)	Scaling Factor	Reported SAR (1g) (W/kg)	Plot #
MHz	Ch.																				
2592.99	518598	Mid	NR Band n41	100	19.0	18.26	B	0.18	0	Right	Cheek	DFT-S-OFDM	QPSK	1	1	0702M	1:1	0.007	1.186	0.008	
2592.99	518598	Mid	NR Band n41	100	19.0	18.00	B	0.11	0	Right	Cheek	DFT-S-OFDM	QPSK	135	69	0702M	1:1	0.019	1.259	0.024	
2592.99	518598	Mid	NR Band n41	100	17.5	16.97	B	0.09	1.5	Right	Cheek	CP-OFDM	QPSK	1	1	0702M	1:1	0.016	1.130	0.018	
2592.99	518598	Mid	NR Band n41	100	19.0	18.26	B	0.11	0	Right	Tilt	DFT-S-OFDM	QPSK	1	1	0702M	1:1	0.012	1.186	0.014	
2592.99	518598	Mid	NR Band n41	100	19.0	18.00	B	0.09	0	Right	Tilt	DFT-S-OFDM	QPSK	135	69	0702M	1:1	0.016	1.259	0.020	
2592.99	518598	Mid	NR Band n41	100	19.0	18.26	B	0.19	0	Left	Cheek	DFT-S-OFDM	QPSK	1	1	0702M	1:1	0.011	1.186	0.013	
2592.99	518598	Mid	NR Band n41	100	19.0	18.00	B	0.12	0	Left	Cheek	DFT-S-OFDM	QPSK	135	69	0702M	1:1	0.013	1.259	0.016	
2592.99	518598	Mid	NR Band n41	100	19.0	18.26	B	0.02	0	Left	Tilt	DFT-S-OFDM	QPSK	1	1	0702M	1:1	0.006	1.186	0.007	
2592.99	518598	Mid	NR Band n41	100	19.0	18.00	B	0.02	0	Left	Tilt	DFT-S-OFDM	QPSK	135	69	0702M	1:1	0.007	1.259	0.009	
2592.99	518598	Mid	NR Band n41	100	15.0	14.28	E	0.02	0	Right	Cheek	DFT-S-OFDM	QPSK	1	137	0702M	1:1	0.211	1.180	0.249	
2592.99	518598	Mid	NR Band n41	100	15.0	14.23	E	0.10	0	Right	Cheek	DFT-S-OFDM	QPSK	135	0	0702M	1:1	0.217	1.194	0.259	
2592.99	518598	Mid	NR Band n41	100	15.0	14.28	E	0.18	0	Right	Tilt	DFT-S-OFDM	QPSK	1	137	0702M	1:1	0.322	1.180	0.380	
2592.99	518598	Mid	NR Band n41	100	15.0	14.23	E	0.13	0	Right	Tilt	DFT-S-OFDM	QPSK	135	0	0702M	1:1	0.345	1.194	0.412	A27
2592.99	518598	Mid	NR Band n41	100	15.0	13.98	E	0.09	0	Right	Tilt	CP-OFDM	QPSK	1	1	0702M	1:1	0.327	1.265	0.414	
2592.99	518598	Mid	NR Band n41	100	15.0	14.28	E	0.03	0	Left	Cheek	DFT-S-OFDM	QPSK	1	137	0702M	1:1	0.188	1.180	0.222	
2592.99	518598	Mid	NR Band n41	100	15.0	14.23	E	0.07	0	Left	Cheek	DFT-S-OFDM	QPSK	135	0	0702M	1:1	0.198	1.194	0.236	
2592.99	518598	Mid	NR Band n41	100	15.0	14.28	E	0.03	0	Left	Tilt	DFT-S-OFDM	QPSK	1	137	0702M	1:1	0.255	1.180	0.301	
2592.99	518598	Mid	NR Band n41	100	15.0	14.23	E	0.07	0	Left	Tilt	DFT-S-OFDM	QPSK	135	0	0702M	1:1	0.275	1.194	0.328	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population										Head 1.6 W/kg (mW/g) averaged over 1 gram											

Table 11-28
NR Band n77 Head SAR

MEASUREMENT RESULTS																					
FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Antenna Config	Power Drift [dB]	MPR [dB]	Side	Test Position	Waveform	Modulation	RB Size	RB Offset	Serial Number	Duty Cycle	SAR (1g) (W/kg)	Scaling Factor	Reported SAR (1g) (W/kg)	Plot #
MHz	Ch.																				
3930.00	662000	High	NR Band n77	100	16.0	15.95	I	0.08	0	Right	Cheek	DFT-S-OFDM	QPSK	1	271	3921S	1:1	0.270	1.012	0.273	
3930.00	662000	High	NR Band n77	100	16.0	15.96	I	0.04	0	Right	Cheek	DFT-S-OFDM	QPSK	135	0	3921S	1:1	0.266	1.009	0.268	
3930.00	662000	High	NR Band n77	100	16.0	15.21	I	0.02	0	Right	Cheek	CP-OFDM	QPSK	1	1	3921S	1:1	0.281	1.199	0.337	A28
3930.00	662000	High	NR Band n77	100	16.0	15.95	I	0.19	0	Right	Tilt	DFT-S-OFDM	QPSK	1	271	3921S	1:1	0.025	1.012	0.025	
3930.00	662000	High	NR Band n77	100	16.0	15.96	I	0.09	0	Right	Tilt	DFT-S-OFDM	QPSK	135	0	3921S	1:1	0.023	1.009	0.023	
3930.00	662000	High	NR Band n77	100	16.0	15.95	I	-0.02	0	Left	Cheek	DFT-S-OFDM	QPSK	1	271	3921S	1:1	0.105	1.012	0.106	
3930.00	662000	High	NR Band n77	100	16.0	15.96	I	-0.04	0	Left	Cheek	DFT-S-OFDM	QPSK	135	0	3921S	1:1	0.102	1.009	0.103	
3930.00	662000	High	NR Band n77	100	16.0	15.95	I	0.12	0	Left	Tilt	DFT-S-OFDM	QPSK	1	271	3921S	1:1	0.048	1.012	0.049	
3930.00	662000	High	NR Band n77	100	16.0	15.96	I	0.17	0	Left	Tilt	DFT-S-OFDM	QPSK	135	0	3921S	1:1	0.044	1.009	0.044	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population										Head 1.6 W/kg (mW/g) averaged over 1 gram											

Table 11-29
DTS Head SISO SAR

MEASUREMENT RESULTS																				
FREQUENCY		Mode	Service	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Side	Test Position	Antenna Config.	Device Serial Number	Data Rate (Mbps)	Duty Cycle (%)	Peak SAR of Area Scan	SAR (1g)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g)	Plot #
MHz	Ch.													W/kg	(W/kg)			(W/kg)	
2412	1	802.11b	DSSS	22	17.0	16.31	0.03	Right	Cheek	1	0774M	1	98.9	0.091	-	1.172	1.011	-	
2412	1	802.11b	DSSS	22	17.0	16.31	0.02	Right	Tilt	1	0774M	1	98.9	0.120	-	1.172	1.011	-	
2412	1	802.11b	DSSS	22	17.0	16.31	0.06	Left	Cheek	1	0774M	1	98.9	0.130	-	1.172	1.011	-	
2412	1	802.11b	DSSS	22	17.0	16.31	0.04	Left	Tilt	1	0774M	1	98.9	0.198	0.107	1.172	1.011	0.127	
2412	1	802.11b	DSSS	22	17.0	16.88	0.03	Right	Cheek	2	0774M	1	98.9	0.269	-	1.028	1.011	-	
2412	1	802.11b	DSSS	22	17.0	16.88	0.04	Right	Tilt	2	0774M	1	98.9	0.045	-	1.028	1.011	-	
2412	1	802.11b	DSSS	22	17.0	16.88	-0.09	Left	Cheek	2	0774M	1	98.9	0.545	0.295	1.028	1.011	**0.307**	
2412	1	802.11b	DSSS	22	17.0	16.88	0.12	Left	Tilt	2	0774M	1	98.9	0.024	-	1.028	1.011	-	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT **Spatial Peak** **Uncontrolled Exposure/General Population**								**Head** **1.6 W/kg (mW/g)** averaged over 1 gram											

Table 11-30
DTS Head MIMO SAR

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Service	Bandwidth [MHz]	Maximum Allowed Power (Ant 1) [dBm]	Conducted Power (Ant 1) [dBm]	Maximum Allowed Power (Ant 2) [dBm]	Conducted Power (Ant 2) [dBm]	Power Drift [dB]	Side	Test Position	Antenna Config.	Device Serial Number	Data Rate (Mbps)	Duty Cycle (%)	Peak SAR of Area Scan	SAR (1g)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g)	Plot #
MHz	Ch.															W/kg	(W/kg)			(W/kg)	
2462	11	802.11n	OFDM	20	17.0	16.48	17.0	16.94	0.04	Right	Cheek	MIMO	0061M	13	93.4	0.357	0.247	1.127	1.071	0.298	
2462	11	802.11n	OFDM	20	17.0	16.48	17.0	16.94	0.04	Right	Tilt	MIMO	0061M	13	93.4	0.081	-	1.127	1.071	-	
2462	11	802.11n	OFDM	20	17.0	16.48	17.0	16.94	0.05	Left	Cheek	MIMO	0061M	13	93.4	0.590	0.331	1.127	1.071	0.400	A29
2462	11	802.11n	OFDM	20	17.0	16.48	17.0	16.94	0.05	Left	Tilt	MIMO	0061M	13	93.4	0.072	-	1.127	1.071	-	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT **Spatial Peak** **Uncontrolled Exposure/General Population**										**Head** **1.6 W/kg (mW/g)** averaged over 1 gram											

Note: To achieve the 20.0 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 17.0 dBm.

Table 11-31
DTS Head MIMO SAR during Conditions with 5/6 GHz WLAN and/or 5G NR mmW

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Service	Bandwidth [MHz]	Maximum Allowed Power (Ant 1) [dBm]	Conducted Power (Ant 1) [dBm]	Maximum Allowed Power (Ant 2) [dBm]	Conducted Power (Ant 2) [dBm]	Power Drift [dB]	Side	Test Position	Antenna Config.	Device Serial Number	Data Rate (Mbps)	Duty Cycle (%)	Peak SAR of Area Scan	SAR (1g)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g)	Plot #
MHz	Ch.															W/kg	(W/kg)			(W/kg)	
2462	11	802.11n	OFDM	20	14.0	12.88	14.0	13.14	0.14	Right	Cheek	MIMO	0061M	13	93.4	0.105	0.072	1.294	1.071	0.100	
2462	11	802.11n	OFDM	20	14.0	12.88	14.0	13.14	0.06	Right	Tilt	MIMO	0061M	13	93.4	0.026	-	1.294	1.071	-	
2462	11	802.11n	OFDM	20	14.0	12.88	14.0	13.14	0.04	Left	Cheek	MIMO	0061M	13	93.4	0.209	0.120	1.294	1.071	0.166	
2462	11	802.11n	OFDM	20	14.0	12.88	14.0	13.14	0.04	Left	Tilt	MIMO	0061M	13	93.4	0.020	-	1.294	1.071	-	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT **Spatial Peak** **Uncontrolled Exposure/General Population**										**Head** **1.6 W/kg (mW/g)** averaged over 1 gram											

Note: To achieve the 17.0 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 14.0 dBm.

Table 11-32
NII MIMO Head SAR

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Service	Bandwidth [MHz]	Maximum Allowed Power (Ant 1) [dBm]	Conducted Power (Ant 1) [dBm]	Maximum Allowed Power (Ant 2) [dBm]	Conducted Power (Ant 2) [dBm]	Power Drift [dB]	Side	Test Position	Antenna Config.	Device Serial Number	Data Rate (Mbps)	Duty Cycle (%)	Peak SAR of Area Scan	SAR (1g)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g)	Plot #
MHz	Ch.															W/kg	(W/kg)			(W/kg)	
5290	58	802.11ac	OFDM	80	14.0	13.19	14.0	13.65	0.09	Right	Cheek	MIMO	0080M	58.5	91.3	0.232	-	1.205	1.095	-	
5290	58	802.11ac	OFDM	80	14.0	13.19	14.0	13.65	0.09	Right	Tilt	MIMO	0080M	58.5	91.3	0.067	-	1.205	1.095	-	
5290	58	802.11ac	OFDM	80	14.0	13.19	14.0	13.65	-0.10	Left	Cheek	MIMO	0080M	58.5	91.3	0.255	0.111	1.205	1.095	**0.146**	A30
5290	58	802.11ac	OFDM	80	14.0	13.19	14.0	13.65	-0.12	Left	Tilt	MIMO	0080M	58.5	91.3	0.037	-	1.205	1.095	-	
5530	106	802.11ac	OFDM	80	14.0	13.25	14.0	13.89	0.08	Right	Cheek	MIMO	0080M	58.5	91.3	0.103	0.036	1.189	1.095	0.047	
5530	106	802.11ac	OFDM	80	14.0	13.25	14.0	13.89	0.06	Right	Tilt	MIMO	0080M	58.5	91.3	0.053	-	1.189	1.095	-	
5530	106	802.11ac	OFDM	80	14.0	13.25	14.0	13.89	-0.09	Left	Cheek	MIMO	0080M	58.5	91.3	0.084	-	1.189	1.095	-	
5530	106	802.11ac	OFDM	80	14.0	13.25	14.0	13.89	0.10	Left	Tilt	MIMO	0080M	58.5	91.3	0.062	-	1.189	1.095	-	
5775	155	802.11ac	OFDM	80	14.0	13.13	14.0	13.31	0.00	Right	Cheek	MIMO	0080M	58.5	91.3	0.177	0.051	1.222	1.095	0.068	
5775	155	802.11ac	OFDM	80	14.0	13.13	14.0	13.31	0.09	Right	Tilt	MIMO	0080M	58.5	91.3	0.055	-	1.222	1.095	-	
5775	155	802.11ac	OFDM	80	14.0	13.13	14.0	13.31	0.10	Left	Cheek	MIMO	0080M	58.5	91.3	0.107	-	1.222	1.095	-	
5775	155	802.11ac	OFDM	80	14.0	13.13	14.0	13.31	0.12	Left	Tilt	MIMO	0080M	58.5	91.3	0.070	-	1.222	1.095	-	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT **Spatial Peak** **Uncontrolled Exposure/General Population**																**Head** **1.6 W/kg (mW/g)** averaged over 1 gram					

Note: To achieve the 17.0 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 14.0 dBm.

Table 11-33
DSS Head SAR

MEASUREMENT RESULTS																
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Side	Test Position	Antenna Config.	Device Serial Number	Data Rate (Mbps)	Duty Cycle (%)	SAR (1g)	Scaling Factor (Cond Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g)	Plot #
MHz	Ch.												(W/kg)			(W/kg)	
2402.00	0	Bluetooth	FHSS	14.0	13.38	0.05	Right	Cheek	1	0080M	1	77.1	0.018	1.154	1.297	0.027	
2402.00	0	Bluetooth	FHSS	14.0	13.38	-0.11	Right	Tilt	1	0080M	1	77.1	0.016	1.154	1.297	0.024	
2402.00	0	Bluetooth	FHSS	14.0	13.38	0.06	Left	Cheek	1	0080M	1	77.1	0.010	1.154	1.297	0.015	
2402.00	0	Bluetooth	FHSS	14.0	13.38	-0.06	Left	Tilt	1	0080M	1	77.1	0.015	1.154	1.297	0.022	
2441.00	39	Bluetooth	FHSS	14.0	12.90	-0.04	Right	Cheek	2	0080M	1	77.1	0.069	1.290	1.297	0.115	
2441.00	39	Bluetooth	FHSS	14.0	12.90	-0.09	Right	Tilt	2	0080M	1	77.1	0.016	1.290	1.297	0.027	
2441.00	39	Bluetooth	FHSS	14.0	12.90	-0.04	Left	Cheek	2	0080M	1	77.1	0.085	1.290	1.297	**0.142**	A31
2441.00	39	Bluetooth	FHSS	14.0	12.90	0.07	Left	Tilt	2	0080M	1	77.1	0.005	1.290	1.297	0.008	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT **Spatial Peak** **Uncontrolled Exposure/General Population**													**Head** **1.6 W/kg (mW/g)** averaged over 1 gram				

11.2 Standalone Body-Worn SAR Data

Table 11-34
GSM/UMTS/CDMA Body-Worn SAR Data

MEASUREMENT RESULTS															
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Spacing	Tune State	Device Serial Number	Duty Cycle	Side	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.											(W/kg)		(W/kg)	
820.10	564	CDMA BC10 (§90S)	TDSO / SO32	25.8	24.54	-0.01	15 mm	26	0735M	1:1	back	0.244	1.337	0.326	A32
836.52	384	CDMA BC0 (§22H)	TDSO / SO32	25.8	24.47	0.00	15 mm	26	0735M	1:1	back	0.252	1.358	0.342	A34
1880.00	600	PCS CDMA	TDSO / SO32	24.0	23.32	0.03	15 mm	21	0691M	1:1	back	0.413	1.169	0.483	A36
836.60	190	GSM 850	GSM	33.5	32.17	0.03	15 mm	N/A	0724M	1:8.3	back	0.131	1.358	0.178	A38
1880.00	661	GSM 1900	GSM	30.0	28.93	0.05	15 mm	N/A	0737M	1:8.3	back	0.220	1.279	0.281	A40
836.60	4183	UMTS 850	RMC	25.5	24.70	-0.01	15 mm	26	0735M	1:1	back	0.241	1.202	0.290	A42
1712.40	1312	UMTS 1750	RMC	24.0	23.99	0.02	15 mm	59	0737M	1:1	back	0.576	1.002	0.577	
1732.40	1412	UMTS 1750	RMC	24.0	23.92	-0.11	15 mm	59	0737M	1:1	back	0.653	1.019	0.665	
1752.60	1513	UMTS 1750	RMC	24.0	23.59	-0.04	15 mm	59	0737M	1:1	back	0.653	1.099	0.718	A44
1880.00	9400	UMTS 1900	RMC	24.0	23.21	0.00	15 mm	21	0691M	1:1	back	0.415	1.199	0.498	A46
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 11-35
LTE Body-Worn SAR

MEASUREMENT RESULTS																				
FREQUENCY			Mode	Bandwidth [MHz]	Tune State	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.																(W/kg)		(W/kg)	
680.50	133297	Mid	LTE Band 71	20	0	25.8	25.29	-0.06	0	0693M	QPSK	1	50	15 mm	back	1:1	0.214	1.125	0.241	A48
680.50	133297	Mid	LTE Band 71	20	0	24.8	24.37	0.03	1	0693M	QPSK	50	25	15 mm	back	1:1	0.180	1.104	0.199	
707.50	23095	Mid	LTE Band 12	10	0	25.8	25.30	-0.01	0	0693M	QPSK	1	0	15 mm	back	1:1	0.212	1.122	0.238	A50
707.50	23095	Mid	LTE Band 12	10	0	24.8	24.38	0.02	1	0693M	QPSK	25	12	15 mm	back	1:1	0.172	1.102	0.190	
782.00	23230	Mid	LTE Band 13	10	0	25.8	25.33	0.00	0	0693M	QPSK	1	0	15 mm	back	1:1	0.225	1.114	0.251	A52
782.00	23230	Mid	LTE Band 13	10	0	24.8	24.27	-0.03	1	0693M	QPSK	25	12	15 mm	back	1:1	0.190	1.130	0.215	
793.00	23330	Mid	LTE Band 14	10	0	25.8	25.30	0.02	0	0693M	QPSK	1	0	15 mm	back	1:1	0.252	1.122	0.283	A54
793.00	23330	Mid	LTE Band 14	10	0	24.8	24.27	0.11	1	0693M	QPSK	25	12	15 mm	back	1:1	0.190	1.130	0.215	
831.50	26865	Mid	LTE Band 26 (Cell)	15	26	25.8	25.10	-0.03	0	0715M	QPSK	1	0	15 mm	back	1:1	0.228	1.175	0.268	A56
831.50	26865	Mid	LTE Band 26 (Cell)	15	26	24.8	24.30	0.00	1	0715M	QPSK	36	0	15 mm	back	1:1	0.193	1.122	0.217	
1860.00	26140	Low	LTE Band 25 (PCS)	20	74	24.5	23.33	0.00	0	0709M	QPSK	1	50	15 mm	back	1:1	0.581	1.309	0.761	A62
1882.50	26365	Mid	LTE Band 25 (PCS)	20	74	24.5	23.17	0.13	0	0709M	QPSK	1	50	15 mm	back	1:1	0.525	1.358	0.713	
1905.00	26590	High	LTE Band 25 (PCS)	20	74	24.5	23.32	0.00	0	0709M	QPSK	1	99	15 mm	back	1:1	0.472	1.312	0.619	
1860.00	26140	Low	LTE Band 25 (PCS)	20	74	23.5	22.44	0.04	1	0709M	QPSK	50	25	15 mm	back	1:1	0.463	1.276	0.591	
2310.00	27710	Mid	LTE Band 30	10	N/A	24.0	23.13	-0.09	0	0721M	QPSK	1	0	15 mm	back	1:1	0.387	1.222	0.473	A64
2310.00	27710	Mid	LTE Band 30	10	N/A	23.0	22.04	0.00	1	0721M	QPSK	25	25	15 mm	back	1:1	0.296	1.247	0.369	
2560.00	21350	High	LTE Band 7	20	N/A	24.0	23.27	0.00	0	0721M	QPSK	1	0	15 mm	back	1:1	0.288	1.183	0.341	A66
2560.00	21350	High	LTE Band 7	20	N/A	23.0	22.38	0.03	1	0721M	QPSK	50	25	15 mm	back	1:1	0.225	1.153	0.259	
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 11-36
LTE Body-Worn SAR

MEASUREMENT RESULTS																							
1 CC Uplink | 2 CC Uplink, Power Class	Component Carrier	FREQUENCY			Mode	Bandwidth [MHz]	Tune State	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g) (W/kg)	Scaling Factor	Reported SAR (1g) (W/kg)	Plot #
		MHz	Ch.																			
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	26	25.8	24.71	0.05	0	0714M	QPSK	1	49	15 mm	back	1:1	0.255	1.285	0.328	
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	26	24.8	23.67	0.02	1	0714M	QPSK	25	25	15 mm	back	1:1	0.199	1.297	0.258	
2 CC Uplink	PCC	836.50	20525	Mid	LTE Band 5 (Cell)	10	26	25.8	24.99	0.03	0	0714M	QPSK	1	49	15 mm	back	1:1	0.274	1.205	0.330	A58
	SCC	843.70	20597			5									0							
1 CC Uplink	N/A	1720.00	132072	Low	LTE Band 66 (AWS)	20	57	24.0	23.36	0.09	0	0683M	QPSK	1	50	15 mm	back	1:1	0.633	1.159	0.734	
1 CC Uplink	N/A	1745.00	132322	Mid	LTE Band 66 (AWS)	20	57	24.0	23.26	0.03	0	0683M	QPSK	1	50	15 mm	back	1:1	0.697	1.186	0.827	
1 CC Uplink	N/A	1770.00	132572	High	LTE Band 66 (AWS)	20	57	24.0	23.35	-0.07	0	0683M	QPSK	1	0	15 mm	back	1:1	0.721	1.161	0.837	
1 CC Uplink	N/A	1775.00	132622	High	LTE Band 66 (AWS)	10	57	24.0	22.98	-0.03	0	0683M	QPSK	1	0	15 mm	back	1:1	0.633	1.265	0.801	
1 CC Uplink	N/A	1720.00	132072	Low	LTE Band 66 (AWS)	20	57	23.0	22.40	0.02	1	0683M	QPSK	50	25	15 mm	back	1:1	0.506	1.148	0.581	
1 CC Uplink	N/A	1720.00	132072	Low	LTE Band 66 (AWS)	20	57	23.0	22.34	0.00	1	0683M	QPSK	100	0	15 mm	back	1:1	0.492	1.164	0.573	
2 CC Uplink CA_66C	PCC	1770.00	132572	High	LTE Band 66 (AWS)	20	57	24.0	23.82	0.00	0	0683M	QPSK	1	0	15 mm	back	1:1	0.765	1.042	0.797	A60
	SCC	1750.20	132374												99							
2 CC Uplink CA_66B	PCC	1775.00	132622	High	LTE Band 66 (AWS)	10	57	24.0	23.65	-0.04	0	0683M	QPSK	1	0	15 mm	back	1:1	0.717	1.084	0.777	
	SCC	1765.10	132523												49							
1 CC Uplink	N/A	3603.30	55773	Low-Mid	LTE Band 48	20	N/A	23.0	22.27	0.03	0	0184M	QPSK	1	0	15 mm	back	1:1.58	0.172	1.183	**0.203**	
1 CC Uplink	N/A	3603.30	55773	Low-Mid	LTE Band 48	20	N/A	23.0	22.59	-0.12	0	0184M	QPSK	1	50	15 mm	back	1:1.58	0.175	1.099	0.192	
1 CC Uplink	N/A	3603.30	55773	Low-Mid	LTE Band 48	20	N/A	23.0	22.73	-0.08	0	0184M	QPSK	50	25	15 mm	back	1:1.58	0.143	1.064	0.152	
2 CC Uplink	PCC	3603.30	55773	Low-Mid	LTE Band 48	20	N/A	23.0	22.69	0.09	0	0184M	QPSK	1	0	15 mm	back	1:1.58	0.188	1.074	**0.202**	A68
	SCC	3583.50	55575												99							
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	N/A	25.0	23.70	0.07	0	0704M	QPSK	1	0	15 mm	back	1:1.58	0.282	1.349	0.380	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	N/A	25.0	24.00	0.01	0	0704M	QPSK	1	50	15 mm	back	1:1.58	0.338	1.259	0.426	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	N/A	24.0	23.05	-0.05	1	0704M	QPSK	50	25	15 mm	back	1:1.58	0.278	1.245	0.346	
1 CC Uplink - Power Class 2	N/A	2680.00	41490	High	LTE Band 41	20	N/A	27.5	26.16	0.01	0	0704M	QPSK	1	0	15 mm	back	1:2.31	0.313	1.361	0.426	
1 CC Uplink - Power Class 2	N/A	2680.00	41490	High	LTE Band 41	20	N/A	27.5	26.54	-0.07	0	0704M	QPSK	1	50	15 mm	back	1:2.31	0.395	1.247	0.493	A70
2 CC Uplink - Power Class 3	PCC	2680.00	41490	High	LTE Band 41	20	N/A	25.0	24.60	-0.02	0	0704M	QPSK	1	0	15 mm	back	1:1.58	0.361	1.096	0.396	
	SCC	2660.20	41292												99							
2 CC Uplink - Power Class 2	PCC	2680.00	41490	High	LTE Band 41	20	N/A	27.5	26.00	-0.08	0	0704M	QPSK	1	0	15 mm	back	1:2.31	0.313	1.413	0.442	
	SCC	2660.20	41292												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 11-37
NR Body-Worn SAR

MEASUREMENT RESULTS																						
FREQUENCY			Mode	Bandwidth [MHz]	Tune State	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Antenna Config	Power Drift [dB]	MPR [dB]	Serial Number	Waveform	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.																		(W/kg)		(W/kg)	
680.50	136100	Mid	NR Band n71	20	0	25.5	24.79	A	0.00	0	0728M	DFT-S-OFDM	QPSK	1	1	15 mm	back	1:1	0.222	1.178	0.262	
680.50	136100	Mid	NR Band n71	20	0	25.5	24.84	A	0.01	0	0728M	DFT-S-OFDM	QPSK	50	28	15 mm	back	1:1	0.226	1.164	0.263	A72
680.50	136100	Mid	NR Band n71	20	0	24.0	23.64	A	-0.02	1.5	0728M	CP-OFDM	QPSK	1	1	15 mm	back	1:1	0.167	1.086	0.181	
707.50	141500	Mid	NR Band n12	15	0	25.5	24.73	A	0.01	0	0728M	DFT-S-OFDM	QPSK	1	40	15 mm	back	1:1	0.231	1.194	0.276	A74
707.50	141500	Mid	NR Band n12	15	0	25.5	24.78	A	-0.03	0	0728M	DFT-S-OFDM	QPSK	36	22	15 mm	back	1:1	0.228	1.180	0.269	
707.50	141500	Mid	NR Band n12	15	0	24.0	23.33	A	-0.11	1.5	0728M	CP-OFDM	QPSK	1	1	15 mm	back	1:1	0.144	1.167	0.168	
836.50	167300	Mid	NR Band n5 (Cell)	20	26	25.5	24.64	A	-0.02	0	0679M	DFT-S-OFDM	QPSK	1	104	15 mm	back	1:1	0.270	1.219	0.329	A76
836.50	167300	Mid	NR Band n5 (Cell)	20	26	25.5	24.68	A	0.01	0	0679M	DFT-S-OFDM	QPSK	50	28	15 mm	back	1:1	0.270	1.208	0.326	
836.50	167300	Mid	NR Band n5 (Cell)	20	26	24.0	23.33	A	0.06	1.5	0679M	CP-OFDM	QPSK	1	1	15 mm	back	1:1	0.161	1.167	0.188	
1745.00	349000	Mid	NR Band n66 (AWS)	40	57	24.8	24.48	A	-0.07	0	0755M	DFT-S-OFDM	QPSK	1	108	15 mm	back	1:1	0.929	1.076	1.000	
1745.00	349000	Mid	NR Band n66 (AWS)	40	57	24.8	24.49	A	-0.01	0	0755M	DFT-S-OFDM	QPSK	108	54	15 mm	back	1:1	0.946	1.074	1.016	A78
1745.00	349000	Mid	NR Band n66 (AWS)	40	57	23.8	23.44	A	0.07	1	0755M	DFT-S-OFDM	QPSK	216	0	15 mm	back	1:1	0.758	1.086	0.823	
1745.00	349000	Mid	NR Band n66 (AWS)	40	57	23.3	22.95	A	0.04	1.5	0755M	CP-OFDM	QPSK	1	1	15 mm	back	1:1	0.623	1.084	0.675	
1745.00	349000	Mid	NR Band n66 (AWS)	40	N/A	24.5	23.77	E	-0.16	0	0762M	DFT-S-OFDM	QPSK	1	108	15 mm	back	1:1	0.083	1.183	0.098	
1745.00	349000	Mid	NR Band n66 (AWS)	40	N/A	24.5	23.63	E	0.19	0	0762M	DFT-S-OFDM	QPSK	108	54	15 mm	back	1:1	0.078	1.222	0.095	
1745.00	349000	Mid	NR Band n66 (AWS)	40	N/A	23.0	21.85	E	0.08	1.5	0762M	CP-OFDM	QPSK	1	1	15 mm	back	1:1	0.077	1.303	0.100	
1882.50	376500	Mid	NR Band n25 (PCS)	40	74	24.8	24.01	A	-0.07	0	0730M	DFT-S-OFDM	QPSK	1	214	15 mm	back	1:1	0.440	1.199	0.528	A80
1882.50	376500	Mid	NR Band n25 (PCS)	40	74	24.8	23.98	A	-0.06	0	0730M	DFT-S-OFDM	QPSK	108	54	15 mm	back	1:1	0.437	1.208	0.528	
1882.50	376500	Mid	NR Band n25 (PCS)	40	74	23.3	22.75	A	-0.03	1.5	0730M	CP-OFDM	QPSK	1	1	15 mm	back	1:1	0.363	1.135	0.412	
1882.50	376500	Mid	NR Band n25 (PCS)	40	N/A	24.5	24.05	E	0.14	0	0758M	DFT-S-OFDM	QPSK	1	1	15 mm	back	1:1	0.075	1.109	0.083	
1882.50	376500	Mid	NR Band n25 (PCS)	40	N/A	24.5	23.39	E	0.14	0	0758M	DFT-S-OFDM	QPSK	108	54	15 mm	back	1:1	0.078	1.291	0.101	
1882.50	376500	Mid	NR Band n25 (PCS)	40	N/A	23.0	22.44	E	0.02	1.5	0758M	CP-OFDM	QPSK	1	1	15 mm	back	1:1	0.054	1.138	0.061	
2310.00	462000	Mid	NR Band n30	10	N/A	24.0	23.44	A	-0.06	0	0692M	DFT-S-OFDM	QPSK	1	26	15 mm	back	1:1	0.639	1.138	0.727	A82
2310.00	462000	Mid	NR Band n30	10	N/A	24.0	23.34	A	-0.05	0	0692M	DFT-S-OFDM	QPSK	25	14	15 mm	back	1:1	0.537	1.164	0.625	
2310.00	462000	Mid	NR Band n30	10	N/A	22.5	20.94	A	0.12	1.5	0692M	CP-OFDM	QPSK	1	1	15 mm	back	1:1	0.318	1.432	0.455	
2592.99	518598	Mid	NR Band n41	100	N/A	19.0	18.26	B	0.18	0	0702M	DFT-S-OFDM	QPSK	1	1	15 mm	back	1:1	0.107	1.186	0.127	A84
2592.99	518598	Mid	NR Band n41	100	N/A	19.0	18.00	B	0.03	0	0702M	DFT-S-OFDM	QPSK	135	69	15 mm	back	1:1	0.102	1.259	0.128	
2592.99	518598	Mid	NR Band n41	100	N/A	17.5	16.97	B	0.04	1.5	0702M	CP-OFDM	QPSK	1	1	15 mm	back	1:1	0.102	1.130	0.115	
2592.99	518598	Mid	NR Band n41	100	N/A	18.0	17.20	E	0.04	0	0702M	DFT-S-OFDM	QPSK	1	137	15 mm	back	1:1	0.087	1.202	0.105	
2592.99	518598	Mid	NR Band n41	100	N/A	18.0	17.09	E	0.04	0	0702M	DFT-S-OFDM	QPSK	135	69	15 mm	back	1:1	0.083	1.233	0.102	
2592.99	518598	Mid	NR Band n41	100	N/A	17.5	16.01	E	0.07	0.5	0702M	CP-OFDM	QPSK	1	1	15 mm	back	1:1	0.049	1.409	0.069	
3930.00	662000	High	NR Band n77	100	N/A	20.5	20.50	I	-0.10	0	3987S	DFT-S-OFDM	QPSK	1	271	15 mm	back	1:1	0.176	1.000	0.176	A86
3930.00	662000	High	NR Band n77	100	N/A	20.5	20.46	I	0.08	0	3987S	DFT-S-OFDM	QPSK	135	69	15 mm	back	1:1	0.168	1.009	0.170	
3930.00	662000	High	NR Band n77	100	N/A	19.0	18.26	I	-0.02	1.5	3987S	CP-OFDM	QPSK	1	1	15 mm	back	1:1	0.114	1.186	0.135	

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 11-38
DTS SISO Body-Worn SAR

MEASUREMENT RESULTS																		
FREQUENCY		Mode	Service	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Spacing	Antenna Config.	Device Serial Number	Data Rate (Mbps)	Side	Duty Cycle (%)	Peak SAR of Area Scan	SAR (1g)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g)	Plot #
MHz	Ch.													W/kg	(W/kg)			(W/kg)	
2437	6	802.11b	DSSS	22	19.5	19.42	0.00	15 mm	1	0123M	1	back	98.9	0.307	0.203	1.019	1.011	0.209	A88
2462	11	802.11b	DSSS	22	20.5	19.91	0.14	15 mm	2	0123M	1	back	98.9	0.173	0.116	1.146	1.011	0.134	

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 11-39
NII MIMO Body-Worn SAR

MEASUREMENT RESULTS																						
FREQUENCY		Mode	Service	Bandwidth [MHz]	Maximum Allowed Power (Ant 1) [dBm]	Conducted Power (Ant 1) [dBm]	Maximum Allowed Power (Ant 2) [dBm]	Conducted Power (Ant 2) [dBm]	Power Drift [dB]	Spacing	Antenna Config.	Device Serial Number	Data Rate (Mbps)	Side	Duty Cycle (%)	Peak SAR of Area Scan	SAR (1g)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g)	Plot #
MHz	Ch.															W/kg	(W/kg)			(W/kg)	
5300	60	802.11n	OFDM	20	17.5	16.36	17.5	17.09	0.02	15 mm	MIMO	0774M	13	back	98.9	0.722	0.348	1.300	1.011	0.457	
5500	100	802.11n	OFDM	20	17.5	16.68	17.5	17.19	0.00	15 mm	MIMO	0774M	13	back	98.9	0.624	0.280	1.208	1.011	0.342	
5785	157	802.11n	OFDM	20	17.5	17.21	17.5	17.46	0.07	15 mm	MIMO	0774M	13	back	98.9	0.941	0.437	1.069	1.011	**0.472**	A90
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: To achieve the 20.5 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 17.5 dBm.

Table 11-40
DTS Body-worn MIMO SAR during conditions with 5/6 GHz WLAN and/or 5G NR mmW

MEASUREMENT RESULTS																						
FREQUENCY		Mode	Service	Bandwidth [MHz]	Maximum Allowed Power (Ant 1) [dBm]	Conducted Power (Ant 1) [dBm]	Maximum Allowed Power (Ant 2) [dBm]	Conducted Power (Ant 2) [dBm]	Power Drift [dB]	Spacing	Antenna Config.	Device Serial Number	Data Rate (Mbps)	Side	Duty Cycle (%)	Peak SAR of Area Scan	SAR (1g)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g)	Plot #
MHz	Ch.															W/kg	(W/kg)			(W/kg)	
2462	11	802.11n	OFDM	20	17.0	16.48	17.0	16.94	0.03	15 mm	MIMO	0774M	13	back	93.4	0.095	0.061	1.127	1.071	0.074	
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: 2.4 GHz MIMO was additionally evaluated at the maximum allowed output power during operations with Simultaneous 2.4 GHz and 5 GHz WLAN. 5 GHz WIFI was not transmitting during the above evaluations.

Table 11-41
NII Body-worn MIMO SAR during Conditions with 2.4 GHz WLAN and/or 5G NR mmW

MEASUREMENT RESULTS																						
FREQUENCY		Mode	Service	Bandwidth [MHz]	Maximum Allowed Power (Ant 1) [dBm]	Conducted Power (Ant 1) [dBm]	Maximum Allowed Power (Ant 2) [dBm]	Conducted Power (Ant 2) [dBm]	Power Drift [dB]	Spacing	Antenna Config.	Device Serial Number	Data Rate (Mbps)	Side	Duty Cycle (%)	Peak SAR of Area Scan	SAR (1g)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g)	Plot #
MHz	Ch.															W/kg	(W/kg)			(W/kg)	
5290	58	802.11ac	OFDM	80	14.0	13.19	14.0	13.65	0.14	15 mm	MIMO	0123M	58.5	back	91.3	0.126	0.056	1.205	1.095	0.074	
5530	106	802.11ac	OFDM	80	14.0	13.25	14.0	13.89	0.09	15 mm	MIMO	0123M	58.5	back	91.3	0.181	0.075	1.189	1.095	0.098	
5775	155	802.11ac	OFDM	80	14.0	13.13	14.0	13.31	0.08	15 mm	MIMO	0123M	58.5	back	91.3	0.178	0.082	1.222	1.095	0.110	
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: NII MIMO was additionally evaluated at the maximum allowed output power during operations with Simultaneous 2.4 GHz and 5 GHz WLAN. 2.4 GHz WIFI was not transmitting during the above evaluations.

Table 11-42
DSS Body-Worn SAR

MEASUREMENT RESULTS																
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Spacing	Antenna Config.	Device Serial Number	Data Rate (Mbps)	Side	Duty Cycle (%)	SAR (1g)	Scaling Factor (Cond Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g)	Plot #
MHz	Ch.												(W/kg)			(W/kg)	
2441	39	Bluetooth	FHSS	17.0	16.29	-0.03	15 mm	1	0774M	1	back	77.1	0.030	1.177	1.297	**0.046**	A92
2441	39	Bluetooth	FHSS	17.0	16.76	0.05	15 mm	2	0774M	1	back	77.1	0.009	1.056	1.297	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				

11.3 Standalone Hotspot SAR Data

Table 11-43
CDMA Hotspot SAR Data

MEASUREMENT RESULTS															
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Spacing	Tune State	Device Serial Number	Duty Cycle	Side	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.											(W/kg)		(W/kg)	
820.10	564	CDMA BC10 (§90S)	EVDO Rev. 0	25.8	24.50	0.01	10 mm	26	0735M	1:1	back	0.506	1.349	0.683	A33
820.10	564	CDMA BC10 (§90S)	EVDO Rev. 0	25.8	24.50	-0.01	10 mm	26	0735M	1:1	front	0.291	1.349	0.393	
820.10	564	CDMA BC10 (§90S)	EVDO Rev. 0	25.8	24.50	-0.03	10 mm	26	0735M	1:1	bottom	0.257	1.349	0.347	
820.10	564	CDMA BC10 (§90S)	EVDO Rev. 0	25.8	24.50	0.00	10 mm	26	0735M	1:1	right	0.196	1.349	0.264	
820.10	564	CDMA BC10 (§90S)	EVDO Rev. 0	25.8	24.50	0.05	10 mm	26	0735M	1:1	left	0.058	1.349	0.078	
824.70	1013	CDMA BC0 (§22H)	EVDO Rev. 0	25.8	24.61	0.00	10 mm	26	0735M	1:1	back	0.511	1.315	0.672	
836.52	384	CDMA BC0 (§22H)	EVDO Rev. 0	25.8	24.47	-0.01	10 mm	26	0735M	1:1	back	0.513	1.358	0.697	
848.31	777	CDMA BC0 (§22H)	EVDO Rev. 0	25.8	24.56	0.00	10 mm	26	0735M	1:1	back	0.560	1.330	0.745	A35
836.52	384	CDMA BC0 (§22H)	EVDO Rev. 0	25.8	24.47	-0.02	10 mm	26	0735M	1:1	front	0.337	1.358	0.458	
836.52	384	CDMA BC0 (§22H)	EVDO Rev. 0	25.8	24.47	-0.01	10 mm	26	0735M	1:1	bottom	0.304	1.358	0.413	
836.52	384	CDMA BC0 (§22H)	EVDO Rev. 0	25.8	24.47	0.00	10 mm	26	0735M	1:1	right	0.207	1.358	0.281	
836.52	384	CDMA BC0 (§22H)	EVDO Rev. 0	25.8	24.47	0.05	10 mm	26	0735M	1:1	left	0.045	1.358	0.061	
1880.00	600	PCS CDMA	EVDO Rev. 0	19.5	19.36	0.12	10 mm	21	0691M	1:1	back	0.317	1.033	0.327	
1880.00	600	PCS CDMA	EVDO Rev. 0	19.5	19.36	-0.16	10 mm	21	0691M	1:1	front	0.238	1.033	0.246	
1851.25	25	PCS CDMA	EVDO Rev. 0	19.5	19.29	-0.04	10 mm	21	0691M	1:1	bottom	0.891	1.050	0.936	
1880.00	600	PCS CDMA	EVDO Rev. 0	19.5	19.36	-0.02	10 mm	21	0691M	1:1	bottom	0.805	1.033	0.832	
1908.75	1175	PCS CDMA	EVDO Rev. 0	19.5	19.19	-0.10	10 mm	21	0691M	1:1	bottom	0.977	1.074	1.049	A37
1880.00	600	PCS CDMA	EVDO Rev. 0	19.5	19.36	-0.11	10 mm	21	0691M	1:1	right	0.031	1.033	0.032	
1880.00	600	PCS CDMA	EVDO Rev. 0	19.5	19.36	0.02	10 mm	21	0691M	1:1	left	0.069	1.033	0.071	
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 11-44
GPRS Hotspot SAR Data

MEASUREMENT RESULTS															
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Spacing	Device Serial Number	# of Time Slots	Duty Cycle	Side	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.											(W/kg)		(W/kg)	
836.60	190	GSM 850	GPRS	30.0	29.16	-0.12	10 mm	0724M	3	1:2.76	back	0.426	1.213	0.517	A39
836.60	190	GSM 850	GPRS	30.0	29.16	0.06	10 mm	0724M	3	1:2.76	front	0.283	1.213	0.343	
836.60	190	GSM 850	GPRS	30.0	29.16	-0.06	10 mm	0724M	3	1:2.76	bottom	0.258	1.213	0.313	
836.60	190	GSM 850	GPRS	30.0	29.16	0.05	10 mm	0724M	3	1:2.76	right	0.181	1.213	0.220	
836.60	190	GSM 850	GPRS	30.0	29.16	-0.01	10 mm	0724M	3	1:2.76	left	0.050	1.213	0.061	
1880.00	661	GSM 1900	GPRS	23.0	22.11	0.00	10 mm	0737M	4	1:2.076	back	0.266	1.227	0.326	
1880.00	661	GSM 1900	GPRS	23.0	22.11	-0.03	10 mm	0737M	4	1:2.076	front	0.210	1.227	0.258	
1850.20	512	GSM 1900	GPRS	23.0	22.00	-0.03	10 mm	0737M	4	1:2.076	bottom	0.723	1.259	0.910	A41
1880.00	661	GSM 1900	GPRS	23.0	22.11	-0.02	10 mm	0737M	4	1:2.076	bottom	0.653	1.227	0.801	
1909.80	810	GSM 1900	GPRS	23.0	22.00	-0.09	10 mm	0737M	4	1:2.076	bottom	0.700	1.259	0.881	
1880.00	661	GSM 1900	GPRS	23.0	22.11	-0.02	10 mm	0737M	4	1:2.076	right	0.027	1.227	0.033	
1880.00	661	GSM 1900	GPRS	23.0	22.11	0.07	10 mm	0737M	4	1:2.076	left	0.039	1.227	0.048	
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 11-45
UMTS Hotspot SAR Data

MEASUREMENT RESULTS															
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Spacing	Tune State	Device Serial Number	Duty Cycle	Side	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.											(W/kg)		(W/kg)	
826.40	4132	UMTS 850	RMC	25.5	24.71	0.01	10 mm	26	0735M	1:1	back	0.576	1.199	0.691	
836.60	4183	UMTS 850	RMC	25.5	24.70	0.01	10 mm	26	0735M	1:1	back	0.536	1.202	0.644	
846.60	4233	UMTS 850	RMC	25.5	24.63	-0.01	10 mm	26	0735M	1:1	back	0.591	1.222	0.722	A43
836.60	4183	UMTS 850	RMC	25.5	24.70	-0.02	10 mm	26	0735M	1:1	front	0.322	1.202	0.387	
836.60	4183	UMTS 850	RMC	25.5	24.70	0.01	10 mm	26	0735M	1:1	bottom	0.302	1.202	0.363	
836.60	4183	UMTS 850	RMC	25.5	24.70	0.02	10 mm	26	0735M	1:1	right	0.208	1.202	0.250	
836.60	4183	UMTS 850	RMC	25.5	24.70	0.01	10 mm	26	0735M	1:1	left	0.043	1.202	0.052	
1732.40	1412	UMTS 1750	RMC	19.5	19.18	0.00	10 mm	59	0737M	1:1	back	0.432	1.076	0.465	
1732.40	1412	UMTS 1750	RMC	19.5	19.18	0.00	10 mm	59	0737M	1:1	front	0.379	1.076	0.408	
1712.40	1312	UMTS 1750	RMC	19.5	19.35	-0.05	10 mm	59	0737M	1:1	bottom	0.756	1.035	0.782	
1732.40	1412	UMTS 1750	RMC	19.5	19.18	-0.01	10 mm	59	0737M	1:1	bottom	0.834	1.076	0.897	
1752.60	1513	UMTS 1750	RMC	19.5	19.21	-0.02	10 mm	59	0737M	1:1	bottom	0.896	1.069	0.958	A45
1732.40	1412	UMTS 1750	RMC	19.5	19.18	0.03	10 mm	59	0737M	1:1	right	0.085	1.076	0.091	
1732.40	1412	UMTS 1750	RMC	19.5	19.18	0.05	10 mm	59	0737M	1:1	left	0.069	1.076	0.074	
1880.00	9400	UMTS 1900	RMC	19.5	19.36	-0.01	10 mm	21	0691M	1:1	back	0.301	1.033	0.311	
1880.00	9400	UMTS 1900	RMC	19.5	19.36	0.00	10 mm	21	0691M	1:1	front	0.195	1.033	0.201	
1852.40	9262	UMTS 1900	RMC	19.5	19.22	0.03	10 mm	21	0691M	1:1	bottom	0.901	1.067	0.961	
1880.00	9400	UMTS 1900	RMC	19.5	19.36	-0.01	10 mm	21	0691M	1:1	bottom	0.874	1.033	0.903	
1907.60	9538	UMTS 1900	RMC	19.5	19.32	-0.04	10 mm	21	0691M	1:1	bottom	0.952	1.042	0.992	A47
1880.00	9400	UMTS 1900	RMC	19.5	19.36	0.10	10 mm	21	0691M	1:1	right	0.030	1.033	0.031	
1880.00	9400	UMTS 1900	RMC	19.5	19.36	-0.02	10 mm	21	0691M	1:1	left	0.063	1.033	0.065	
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 11-46
LTE Band 71 Hotspot SAR

MEASUREMENT RESULTS																					
FREQUENCY			Mode	Bandwidth [MHz]	Tune State	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.																(W/kg)		(W/kg)	
680.50	133297	Mid	LTE Band 71	20	0	25.8	25.29	-0.06	0	0693M	QPSK	1	50	10 mm	back	1:1	0.330	1.125	0.371	A49
680.50	133297	Mid	LTE Band 71	20	0	24.8	24.37	-0.07	1	0693M	QPSK	50	25	10 mm	back	1:1	0.269	1.104	0.297	
680.50	133297	Mid	LTE Band 71	20	0	25.8	25.29	-0.02	0	0693M	QPSK	1	50	10 mm	front	1:1	0.217	1.125	0.244	
680.50	133297	Mid	LTE Band 71	20	0	24.8	24.37	-0.03	1	0693M	QPSK	50	25	10 mm	front	1:1	0.177	1.104	0.195	
680.50	133297	Mid	LTE Band 71	20	0	25.8	25.29	0.04	0	0693M	QPSK	1	50	10 mm	bottom	1:1	0.191	1.125	0.215	
680.50	133297	Mid	LTE Band 71	20	0	24.8	24.37	-0.01	1	0693M	QPSK	50	25	10 mm	bottom	1:1	0.153	1.104	0.169	
680.50	133297	Mid	LTE Band 71	20	0	25.8	25.29	-0.02	0	0693M	QPSK	1	50	10 mm	right	1:1	0.303	1.125	0.341	
680.50	133297	Mid	LTE Band 71	20	0	24.8	24.37	0.02	1	0693M	QPSK	50	25	10 mm	right	1:1	0.261	1.104	0.288	
680.50	133297	Mid	LTE Band 71	20	0	25.8	25.29	0.15	0	0693M	QPSK	1	50	10 mm	left	1:1	0.150	1.125	0.169	
680.50	133297	Mid	LTE Band 71	20	0	24.8	24.37	0.13	1	0693M	QPSK	50	25	10 mm	left	1:1	0.130	1.104	0.144	
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 11-47
LTE Band 12 Hotspot SAR

MEASUREMENT RESULTS																						
FREQUENCY			Mode	Bandwidth [MHz]	Tune State	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.																(W/kg)		(W/kg)	
707.50	23095	Mid	LTE Band 12	10	0	25.8	25.30	-0.03	0	0693M	QPSK	1	0	10 mm	back	1:1	0.361	1.122	0.405	A51
707.50	23095	Mid	LTE Band 12	10	0	24.8	24.38	-0.05	1	0693M	QPSK	25	12	10 mm	back	1:1	0.309	1.102	0.341	
707.50	23095	Mid	LTE Band 12	10	0	25.8	25.30	-0.04	0	0693M	QPSK	1	0	10 mm	front	1:1	0.250	1.122	0.281	
707.50	23095	Mid	LTE Band 12	10	0	24.8	24.38	-0.01	1	0693M	QPSK	25	12	10 mm	front	1:1	0.212	1.102	0.234	
707.50	23095	Mid	LTE Band 12	10	0	25.8	25.30	-0.05	0	0693M	QPSK	1	0	10 mm	bottom	1:1	0.231	1.122	0.259	
707.50	23095	Mid	LTE Band 12	10	0	24.8	24.38	-0.04	1	0693M	QPSK	25	12	10 mm	bottom	1:1	0.195	1.102	0.215	
707.50	23095	Mid	LTE Band 12	10	0	25.8	25.30	0.04	0	0693M	QPSK	1	0	10 mm	right	1:1	0.330	1.122	0.370	
707.50	23095	Mid	LTE Band 12	10	0	24.8	24.38	-0.02	1	0693M	QPSK	25	12	10 mm	right	1:1	0.272	1.102	0.300	
707.50	23095	Mid	LTE Band 12	10	0	25.8	25.30	0.17	0	0693M	QPSK	1	0	10 mm	left	1:1	0.129	1.122	0.145	
707.50	23095	Mid	LTE Band 12	10	0	24.8	24.38	-0.01	1	0693M	QPSK	25	12	10 mm	left	1:1	0.107	1.102	0.118	
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 11-48
LTE Band 13 Hotspot SAR

MEASUREMENT RESULTS																						
FREQUENCY			Mode	Bandwidth [MHz]	Tune State	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.																(W/kg)		(W/kg)	
782.00	23230	Mid	LTE Band 13	10	0	25.8	25.33	-0.02	0	0693M	QPSK	1	0	10 mm	back	1:1	0.473	1.114	0.527	A53
782.00	23230	Mid	LTE Band 13	10	0	24.8	24.27	0.00	1	0693M	QPSK	25	12	10 mm	back	1:1	0.400	1.130	0.452	
782.00	23230	Mid	LTE Band 13	10	0	25.8	25.33	-0.02	0	0693M	QPSK	1	0	10 mm	front	1:1	0.284	1.114	0.316	
782.00	23230	Mid	LTE Band 13	10	0	24.8	24.27	-0.01	1	0693M	QPSK	25	12	10 mm	front	1:1	0.239	1.130	0.270	
782.00	23230	Mid	LTE Band 13	10	0	25.8	25.33	-0.01	0	0693M	QPSK	1	0	10 mm	bottom	1:1	0.295	1.114	0.329	
782.00	23230	Mid	LTE Band 13	10	0	24.8	24.27	-0.02	1	0693M	QPSK	25	12	10 mm	bottom	1:1	0.244	1.130	0.276	
782.00	23230	Mid	LTE Band 13	10	0	25.8	25.33	-0.03	0	0693M	QPSK	1	0	10 mm	right	1:1	0.238	1.114	0.265	
782.00	23230	Mid	LTE Band 13	10	0	24.8	24.27	0.05	1	0693M	QPSK	25	12	10 mm	right	1:1	0.195	1.130	0.220	
782.00	23230	Mid	LTE Band 13	10	0	25.8	25.33	0.03	0	0693M	QPSK	1	0	10 mm	left	1:1	0.093	1.114	0.104	
782.00	23230	Mid	LTE Band 13	10	0	24.8	24.27	0.07	1	0693M	QPSK	25	12	10 mm	left	1:1	0.078	1.130	0.088	
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 11-49
LTE Band 14 Hotspot SAR

MEASUREMENT RESULTS																						
FREQUENCY			Mode	Bandwidth [MHz]	Tune State	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.																(W/kg)		(W/kg)	
793.00	23330	Mid	LTE Band 14	10	0	25.8	25.30	-0.04	0	0693M	QPSK	1	0	10 mm	back	1:1	0.553	1.122	0.620	A55
793.00	23330	Mid	LTE Band 14	10	0	24.8	24.27	-0.06	1	0693M	QPSK	25	12	10 mm	back	1:1	0.435	1.130	0.492	
793.00	23330	Mid	LTE Band 14	10	0	25.8	25.30	0.13	0	0693M	QPSK	1	0	10 mm	front	1:1	0.358	1.122	0.402	
793.00	23330	Mid	LTE Band 14	10	0	24.8	24.27	-0.01	1	0693M	QPSK	25	12	10 mm	front	1:1	0.279	1.130	0.315	
793.00	23330	Mid	LTE Band 14	10	0	25.8	25.30	0.05	0	0693M	QPSK	1	0	10 mm	bottom	1:1	0.300	1.122	0.337	
793.00	23330	Mid	LTE Band 14	10	0	24.8	24.27	0.05	1	0693M	QPSK	25	12	10 mm	bottom	1:1	0.236	1.130	0.267	
793.00	23330	Mid	LTE Band 14	10	0	25.8	25.30	0.09	0	0693M	QPSK	1	0	10 mm	right	1:1	0.278	1.122	0.312	
793.00	23330	Mid	LTE Band 14	10	0	24.8	24.27	-0.01	1	0693M	QPSK	25	12	10 mm	right	1:1	0.210	1.130	0.237	
793.00	23330	Mid	LTE Band 14	10	0	25.8	25.30	0.01	0	0693M	QPSK	1	0	10 mm	left	1:1	0.122	1.122	0.137	
793.00	23330	Mid	LTE Band 14	10	0	24.8	24.27	0.01	1	0693M	QPSK	25	12	10 mm	left	1:1	0.076	1.130	0.086	
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 11-50
LTE Band 26 (Cell) Hotspot SAR

MEASUREMENT RESULTS																					
FREQUENCY			Mode	Bandwidth [MHz]	Tune State	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.																(W/kg)		(W/kg)	
831.50	26865	Mid	LTE Band 26 (Cell)	15	26	25.8	25.10	-0.02	0	0715M	QPSK	1	0	10 mm	back	1:1	0.474	1.175	0.557	A57
831.50	26865	Mid	LTE Band 26 (Cell)	15	26	24.8	24.30	0.00	1	0715M	QPSK	36	0	10 mm	back	1:1	0.401	1.122	0.450	
831.50	26865	Mid	LTE Band 26 (Cell)	15	26	25.8	25.10	0.00	0	0715M	QPSK	1	0	10 mm	front	1:1	0.337	1.175	0.396	
831.50	26865	Mid	LTE Band 26 (Cell)	15	26	24.8	24.30	0.05	1	0715M	QPSK	36	0	10 mm	front	1:1	0.281	1.122	0.315	
831.50	26865	Mid	LTE Band 26 (Cell)	15	26	25.8	25.10	-0.06	0	0715M	QPSK	1	0	10 mm	bottom	1:1	0.296	1.175	0.348	
831.50	26865	Mid	LTE Band 26 (Cell)	15	26	24.8	24.30	-0.01	1	0715M	QPSK	36	0	10 mm	bottom	1:1	0.242	1.122	0.272	
831.50	26865	Mid	LTE Band 26 (Cell)	15	26	25.8	25.10	0.02	0	0715M	QPSK	1	0	10 mm	right	1:1	0.203	1.175	0.239	
831.50	26865	Mid	LTE Band 26 (Cell)	15	26	24.8	24.30	0.03	1	0715M	QPSK	36	0	10 mm	right	1:1	0.162	1.122	0.182	
831.50	26865	Mid	LTE Band 26 (Cell)	15	26	25.8	25.10	-0.04	0	0715M	QPSK	1	0	10 mm	left	1:1	0.049	1.175	0.058	
831.50	26865	Mid	LTE Band 26 (Cell)	15	26	24.8	24.30	-0.01	1	0715M	QPSK	36	0	10 mm	left	1:1	0.035	1.122	0.039	

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 11-51
LTE Band 5 (Cell) Hotspot SAR

MEASUREMENT RESULTS																						
1 CC Uplink | 2 CC Uplink	Component Carrier	FREQUENCY			Mode	Bandwidth [MHz]	Tune State	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
		MHz	Ch.																(W/kg)		(W/kg)	
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	26	25.8	24.71	0.02	0	0714M	QPSK	1	49	10 mm	back	1:1	0.567	1.285	0.729	
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	26	24.8	23.67	0.06	1	0714M	QPSK	25	25	10 mm	back	1:1	0.441	1.297	0.572	
2 CC Uplink	PCC	836.50	20525	Mid	LTE Band 5 (Cell)	10	26	25.8	24.99	0.02	0	0714M	QPSK	1	49	10 mm	back	1:1	0.603	1.205	0.727	A59
	SCC	843.70	20597			5									0							
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	2	25.8	24.71	0.05	0	0714M	QPSK	1	49	10 mm	front	1:1	0.379	1.285	0.487	
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	2	24.8	23.67	-0.02	1	0714M	QPSK	25	25	10 mm	front	1:1	0.300	1.297	0.389	
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	26	25.8	24.71	-0.04	0	0714M	QPSK	1	49	10 mm	bottom	1:1	0.351	1.285	0.451	
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	26	24.8	23.67	-0.06	1	0714M	QPSK	25	25	10 mm	bottom	1:1	0.275	1.297	0.357	
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	0	25.8	24.71	0.03	0	0714M	QPSK	1	49	10 mm	right	1:1	0.210	1.285	0.270	
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	0	24.8	23.67	0.01	1	0714M	QPSK	25	25	10 mm	right	1:1	0.165	1.297	0.214	
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	28	25.8	24.71	-0.02	0	0714M	QPSK	1	49	10 mm	left	1:1	0.054	1.285	0.069	
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	28	24.8	23.67	0.06	1	0714M	QPSK	25	25	10 mm	left	1:1	0.040	1.297	0.052	

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

Table 11-52
LTE Band 66 (AWS) Hotspot SAR

MEASUREMENT RESULTS																							
1 CC Uplink | 2 CC Uplink	Component Carrier	FREQUENCY			Mode	Bandwidth [MHz]	Tune State	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
		MHz	Ch.																(W/kg)		(W/kg)	
1 CC Uplink	N/A	1745.00	132322	Mid	LTE Band 66 (AWS)	20	0	19.5	19.36	0.00	0	0683M	QPSK	1	50	10 mm	back	1:1	0.481	1.033	0.497	
1 CC Uplink	N/A	1745.00	132322	Mid	LTE Band 66 (AWS)	20	0	19.5	19.34	-0.03	0	0683M	QPSK	50	25	10 mm	back	1:1	0.508	1.038	0.527	
1 CC Uplink	N/A	1745.00	132322	Mid	LTE Band 66 (AWS)	20	57	19.5	19.36	-0.11	0	0683M	QPSK	1	50	10 mm	front	1:1	0.394	1.033	0.407	
1 CC Uplink	N/A	1745.00	132322	Mid	LTE Band 66 (AWS)	20	57	19.5	19.34	0.02	0	0683M	QPSK	50	25	10 mm	front	1:1	0.417	1.038	0.433	
1 CC Uplink	N/A	1745.00	132322	Mid	LTE Band 66 (AWS)	20	61	19.5	19.36	-0.12	0	0683M	QPSK	1	50	10 mm	bottom	1:1	0.733	1.033	0.757	
1 CC Uplink	N/A	1720.00	132072	Low	LTE Band 66 (AWS)	20	59	19.5	19.33	-0.17	0	0683M	QPSK	50	25	10 mm	bottom	1:1	0.687	1.040	0.714	
1 CC Uplink	N/A	1745.00	132322	Mid	LTE Band 66 (AWS)	20	61	19.5	19.34	-0.10	0	0683M	QPSK	50	25	10 mm	bottom	1:1	0.809	1.038	0.840	
1 CC Uplink	N/A	1770.00	132572	High	LTE Band 66 (AWS)	20	108	19.5	19.24	-0.02	0	0683M	QPSK	50	0	10 mm	bottom	1:1	0.999	1.062	1.061	
1 CC Uplink	N/A	1770.00	132572	High	LTE Band 66 (AWS)	20	108	19.5	19.26	-0.04	0	0683M	QPSK	50	25	10 mm	bottom	1:1	1.030	1.057	1.089	
1 CC Uplink	N/A	1775.00	132622	High	LTE Band 66 (AWS)	10	108	19.5	19.15	-0.16	0	0683M	QPSK	25	0	10 mm	bottom	1:1	1.020	1.084	1.106	
1 CC Uplink	N/A	1745.00	132322	Mid	LTE Band 66 (AWS)	20	61	19.5	19.33	-0.18	0	0683M	QPSK	100	0	10 mm	bottom	1:1	0.793	1.040	0.825	
2 CC Uplink CA 66C	PCC	1770.00	132572	High	LTE Band 66 (AWS)	20	108	19.5	19.48	-0.18	0	0683M	QPSK	50	0	10 mm	bottom	1:1	1.070	1.005	1.075	A61
	SCC	1750.20	132374												50							
2 CC Uplink CA 66B	PCC	1775.00	132622	High	LTE Band 66 (AWS)	10	108	19.5	19.06	-0.02	0	0683M	QPSK	25	0	10 mm	bottom	1:1	1.030	1.107	1.140	
	SCC	1765.10	132523												25							
1 CC Uplink	N/A	1745.00	132322	Mid	LTE Band 66 (AWS)	20	61	19.5	19.36	-0.19	0	0683M	QPSK	1	50	10 mm	right	1:1	0.074	1.033	0.076	
1 CC Uplink	N/A	1745.00	132322	Mid	LTE Band 66 (AWS)	20	61	19.5	19.34	0.00	0	0683M	QPSK	50	25	10 mm	right	1:1	0.075	1.038	0.078	
1 CC Uplink	N/A	1745.00	132322	Mid	LTE Band 66 (AWS)	20	62	19.5	19.36	0.03	0	0683M	QPSK	1	50	10 mm	left	1:1	0.073	1.033	0.075	
1 CC Uplink	N/A	1745.00	132322	Mid	LTE Band 66 (AWS)	20	62	19.5	19.34	0.03	0	0683M	QPSK	50	25	10 mm	left	1:1	0.076	1.038	0.079	
2 CC Uplink CA 66C	PCC	1770.00	132572	High	LTE Band 66 (AWS)	20	108	19.5	19.48	-0.16	0	0683M	QPSK	50	0	10 mm	bottom	1:1	1.030	1.005	1.035	
	SCC	1750.20	132374												50							
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																	Body 1.6 W/kg (mW/g) averaged over 1 gram					

Note: Blue entry represents variability measurement.

Table 11-53
LTE Band 25 (PCS) Hotspot SAR

MEASUREMENT RESULTS																					
FREQUENCY			Mode	Bandwidth [MHz]	Tune State	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.																(W/kg)		(W/kg)	
1860.00	26140	Low	LTE Band 25 (PCS)	20	21	19.5	19.50	0.07	0	0709M	QPSK	1	50	10 mm	back	1:1	0.379	1.000	0.379	
1860.00	26140	Low	LTE Band 25 (PCS)	20	21	19.5	19.48	0.02	0	0709M	QPSK	50	0	10 mm	back	1:1	0.392	1.005	0.394	
1860.00	26140	Low	LTE Band 25 (PCS)	20	73	19.5	19.50	-0.01	0	0709M	QPSK	1	50	10 mm	front	1:1	0.269	1.000	0.269	
1860.00	26140	Low	LTE Band 25 (PCS)	20	73	19.5	19.48	0.05	0	0709M	QPSK	50	0	10 mm	front	1:1	0.267	1.005	0.268	
1860.00	26140	Low	LTE Band 25 (PCS)	20	22	19.5	19.50	-0.06	0	0709M	QPSK	1	50	10 mm	bottom	1:1	0.890	1.000	0.890	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	22	19.5	19.09	-0.03	0	0709M	QPSK	1	0	10 mm	bottom	1:1	0.964	1.099	1.059	
1905.00	26590	High	LTE Band 25 (PCS)	20	22	19.5	19.33	-0.09	0	0709M	QPSK	1	99	10 mm	bottom	1:1	0.915	1.040	0.952	
1860.00	26140	Low	LTE Band 25 (PCS)	20	22	19.5	19.48	-0.05	0	0709M	QPSK	50	0	10 mm	bottom	1:1	0.917	1.005	0.922	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	22	19.5	19.18	-0.03	0	0709M	QPSK	50	25	10 mm	bottom	1:1	1.010	1.076	1.087	A63
1905.00	26590	High	LTE Band 25 (PCS)	20	22	19.5	19.46	-0.02	0	0709M	QPSK	50	50	10 mm	bottom	1:1	0.934	1.009	0.942	
1860.00	26140	Low	LTE Band 25 (PCS)	20	22	19.5	19.27	-0.06	0	0709M	QPSK	100	0	10 mm	bottom	1:1	0.894	1.054	0.942	
1860.00	26140	Low	LTE Band 25 (PCS)	20	74	19.5	19.50	0.07	0	0709M	QPSK	1	50	10 mm	right	1:1	0.041	1.000	0.041	
1860.00	26140	Low	LTE Band 25 (PCS)	20	74	19.5	19.48	0.16	0	0709M	QPSK	50	0	10 mm	right	1:1	0.042	1.005	0.042	
1860.00	26140	Low	LTE Band 25 (PCS)	20	74	19.5	19.50	0.03	0	0709M	QPSK	1	50	10 mm	left	1:1	0.062	1.000	0.062	
1860.00	26140	Low	LTE Band 25 (PCS)	20	74	19.5	19.48	0.14	0	0709M	QPSK	50	0	10 mm	left	1:1	0.065	1.005	0.065	
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 11-54
LTE Band 30 Hotspot SAR

MEASUREMENT RESULTS																				
FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.															(W/kg)		(W/kg)	
2310.00	27710	Mid	LTE Band 30	10	20.0	19.21	-0.03	0	0721M	QPSK	1	0	10 mm	back	1:1	0.284	1.199	0.341	
2310.00	27710	Mid	LTE Band 30	10	20.0	19.15	-0.03	0	0721M	QPSK	25	25	10 mm	back	1:1	0.272	1.216	0.331	
2310.00	27710	Mid	LTE Band 30	10	20.0	19.21	0.00	0	0721M	QPSK	1	0	10 mm	front	1:1	0.261	1.199	0.313	
2310.00	27710	Mid	LTE Band 30	10	20.0	19.15	0.13	0	0721M	QPSK	25	25	10 mm	front	1:1	0.258	1.216	0.314	
2310.00	27710	Mid	LTE Band 30	10	20.0	19.21	-0.02	0	0721M	QPSK	1	0	10 mm	bottom	1:1	0.871	1.199	1.044	
2310.00	27710	Mid	LTE Band 30	10	20.0	19.15	-0.06	0	0721M	QPSK	25	25	10 mm	bottom	1:1	0.869	1.216	1.057	
2310.00	27710	Mid	LTE Band 30	10	20.0	19.14	-0.09	0	0721M	QPSK	50	0	10 mm	bottom	1:1	0.886	1.219	1.080	A65
2310.00	27710	Mid	LTE Band 30	10	20.0	19.21	-0.18	0	0721M	QPSK	1	0	10 mm	right	1:1	0.036	1.199	0.043	
2310.00	27710	Mid	LTE Band 30	10	20.0	19.15	0.04	0	0721M	QPSK	25	25	10 mm	right	1:1	0.035	1.216	0.043	
2310.00	27710	Mid	LTE Band 30	10	20.0	19.21	-0.03	0	0721M	QPSK	1	0	10 mm	left	1:1	0.042	1.199	0.050	
2310.00	27710	Mid	LTE Band 30	10	20.0	19.15	0.03	0	0721M	QPSK	25	25	10 mm	left	1:1	0.038	1.216	0.046	
2310.00	27710	Mid	LTE Band 30	10	20.0	19.14	-0.01	0	0721M	QPSK	50	0	10 mm	bottom	1:1	0.841	1.219	1.025	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population														Body 1.6 W/kg (mW/g) averaged over 1 gram						

Note: Blue entry represents variability measurement.

Table 11-55
LTE Band 7 Hotspot SAR

MEASUREMENT RESULTS																				
FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.															(W/kg)		(W/kg)	
2560.00	21350	High	LTE Band 7	20	21.0	20.46	-0.03	0	0721M	QPSK	1	0	10 mm	back	1:1	0.257	1.132	0.291	
2560.00	21350	High	LTE Band 7	20	21.0	20.44	0.01	0	0721M	QPSK	50	0	10 mm	back	1:1	0.258	1.138	0.294	
2560.00	21350	High	LTE Band 7	20	21.0	20.46	0.01	0	0721M	QPSK	1	0	10 mm	front	1:1	0.252	1.132	0.285	
2560.00	21350	High	LTE Band 7	20	21.0	20.44	0.01	0	0721M	QPSK	50	0	10 mm	front	1:1	0.253	1.138	0.288	
2510.00	20850	Low	LTE Band 7	20	21.0	20.34	0.02	0	0721M	QPSK	1	0	10 mm	bottom	1:1	0.583	1.164	0.679	
2535.00	21100	Mid	LTE Band 7	20	21.0	20.45	-0.10	0	0721M	QPSK	1	99	10 mm	bottom	1:1	0.650	1.135	0.738	
2560.00	21350	High	LTE Band 7	20	21.0	20.46	-0.02	0	0721M	QPSK	1	0	10 mm	bottom	1:1	0.673	1.132	0.762	A67
2560.00	21350	High	LTE Band 7	20	21.0	20.44	0.01	0	0721M	QPSK	50	0	10 mm	bottom	1:1	0.669	1.138	0.761	
2560.00	21350	High	LTE Band 7	20	21.0	20.46	0.08	0	0721M	QPSK	1	0	10 mm	left	1:1	0.135	1.132	0.153	
2560.00	21350	High	LTE Band 7	20	21.0	20.44	0.07	0	0721M	QPSK	50	0	10 mm	left	1:1	0.135	1.138	0.154	
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 11-56
LTE Band 48 Hotspot 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]	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g) (W/kg)	Scaling Factor	Reported SAR (1g) (W/kg)	Plot #
		MHz	Ch.																		
1 CC Uplink	N/A	3603.30	55773	Low-Mid	LTE Band 48	20	23.0	22.59	-0.10	0	3921S	QPSK	1	50	10 mm	back	1:1.58	0.290	1.099	0.319	
1 CC Uplink	N/A	3603.30	55773	Low-Mid	LTE Band 48	20	23.0	22.73	0.04	0	3921S	QPSK	50	25	10 mm	back	1:1.58	0.243	1.064	0.259	
1 CC Uplink	N/A	3603.30	55773	Low-Mid	LTE Band 48	20	23.0	22.59	0.02	0	3921S	QPSK	1	50	10 mm	front	1:1.58	0.200	1.099	0.220	
1 CC Uplink	N/A	3603.30	55773	Low-Mid	LTE Band 48	20	23.0	22.73	0.05	0	3921S	QPSK	50	25	10 mm	front	1:1.58	0.167	1.064	0.178	
1 CC Uplink	N/A	3560.00	55340	Low	LTE Band 48	20	23.0	22.45	-0.09	0	3921S	QPSK	1	50	10 mm	right	1:1.58	0.554	1.135	0.629	
1 CC Uplink	N/A	3560.00	55340	Low	LTE Band 48	20	23.0	22.30	-0.03	0	3921S	QPSK	1	99	10 mm	right	1:1.58	0.526	1.175	0.618	
1 CC Uplink	N/A	3603.30	55773	Low-Mid	LTE Band 48	20	23.0	22.59	0.02	0	3921S	QPSK	1	50	10 mm	right	1:1.58	0.521	1.099	0.573	
1 CC Uplink	N/A	3646.70	56207	Mid-High	LTE Band 48	20	23.0	22.35	-0.11	0	3921S	QPSK	1	50	10 mm	right	1:1.58	0.508	1.161	0.590	
1 CC Uplink	N/A	3690.00	56640	High	LTE Band 48	20	23.0	22.34	-0.03	0	3921S	QPSK	1	50	10 mm	right	1:1.58	0.446	1.164	0.519	
1 CC Uplink	N/A	3603.30	55773	Low-Mid	LTE Band 48	20	23.0	22.73	0.03	0	3921S	QPSK	50	25	10 mm	right	1:1.58	0.443	1.064	0.471	
1 CC Uplink	N/A	3603.30	55773	Low-Mid	LTE Band 48	20	23.0	22.56	-0.17	0	3921S	QPSK	100	0	10 mm	right	1:1.58	0.448	1.107	0.496	
2 CC Uplink	PCC	3560.00	55340	Low	LTE Band 48	20	23.0	22.65	-0.03	0	3921S	QPSK	1	99	10 mm	right	1:1.58	0.564	1.084	0.611	A69
	SCC	3579.80	55538											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 11-57
LTE Band 41 Hotspot SAR

MEASUREMENT RESULTS																					
1 CC Uplink | 2 CC Uplink, Power Class	Component Carrier	FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g) (W/kg)	Scaling Factor	Reported SAR (1g) (W/kg)	Plot #
		MHz	Ch.																		
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	LTE Band 41	20	22.0	21.57	0.02	0	0704M	QPSK	1	0	10 mm	back	1:1.58	0.187	1.104	0.206	
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	LTE Band 41	20	22.0	21.52	0.19	0	0704M	QPSK	50	25	10 mm	back	1:1.58	0.173	1.117	0.193	
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	LTE Band 41	20	22.0	21.57	-0.07	0	0704M	QPSK	1	0	10 mm	front	1:1.58	0.179	1.104	0.198	
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	LTE Band 41	20	22.0	21.52	-0.02	0	0704M	QPSK	50	25	10 mm	front	1:1.58	0.177	1.117	0.198	
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	LTE Band 41	20	22.0	21.57	-0.03	0	0704M	QPSK	1	0	10 mm	bottom	1:1.58	0.465	1.104	0.513	A71
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	LTE Band 41	20	22.0	21.52	-0.01	0	0704M	QPSK	50	25	10 mm	bottom	1:1.58	0.453	1.117	0.506	
1 CC Uplink - Power Class 2	N/A	2549.50	40185	Low-Mid	LTE Band 41	20	23.6	23.54	-0.03	0	0704M	QPSK	1	0	10 mm	bottom	1:2.31	0.459	1.014	0.465	
2 CC Uplink - Power Class 3	PCC	2549.50	40185	Low-Mid	LTE Band 41	20	22.0	21.65	-0.18	0	0704M	QPSK	1	0	10 mm	bottom	1:1.58	0.451	1.084	0.489	
	SCC	2529.70	39987											99							
2 CC Uplink - Power Class 2	PCC	2549.50	40185	Low-Mid	LTE Band 41	20	23.6	23.60	-0.03	0	0704M	QPSK	1	0	10 mm	bottom	1:2.31	0.459	1.000	0.459	
	SCC	2529.70	39987											99							
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	LTE Band 41	20	22.0	21.57	0.13	0	0704M	QPSK	1	0	10 mm	left	1:1.58	0.042	1.104	0.046	
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	LTE Band 41	20	22.0	21.52	0.05	0	0704M	QPSK	50	25	10 mm	left	1:1.58	0.042	1.117	0.047	
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 11-58
NR Band n71 Hotspot SAR

MEASUREMENT RESULTS																						
FREQUENCY			Mode	Bandwidth [MHz]	Tune State	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Antenna Config	Power Drift [dB]	MPR [dB]	Serial Number	Waveform	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g) (W/kg)	Scaling Factor	Reported SAR (1g) (W/kg)	Plot #
MHz	Ch.																					
680.50	136100	Mid	NR Band n71	20	0	25.5	24.79	A	-0.12	0	0728M	DFT-S-OFDM	QPSK	1	1	10 mm	back	1:1	0.342	1.178	0.403	
680.50	136100	Mid	NR Band n71	20	0	25.5	24.84	A	-0.06	0	0728M	DFT-S-OFDM	QPSK	50	28	10 mm	back	1:1	0.353	1.164	0.411	A73
680.50	136100	Mid	NR Band n71	20	0	24.0	23.64	A	-0.07	1.5	0728M	CP-OFDM	QPSK	1	1	10 mm	back	1:1	0.264	1.086	0.287	
680.50	136100	Mid	NR Band n71	20	0	25.5	24.79	A	0.02	0	0728M	DFT-S-OFDM	QPSK	1	1	10 mm	front	1:1	0.244	1.178	0.287	
680.50	136100	Mid	NR Band n71	20	0	25.5	24.84	A	-0.01	0	0728M	DFT-S-OFDM	QPSK	50	28	10 mm	front	1:1	0.249	1.164	0.290	
680.50	136100	Mid	NR Band n71	20	0	25.5	24.79	A	-0.06	0	0728M	DFT-S-OFDM	QPSK	1	1	10 mm	bottom	1:1	0.176	1.178	0.207	
680.50	136100	Mid	NR Band n71	20	0	25.5	24.84	A	-0.03	0	0728M	DFT-S-OFDM	QPSK	50	28	10 mm	bottom	1:1	0.178	1.164	0.207	
680.50	136100	Mid	NR Band n71	20	0	25.5	24.79	A	0.02	0	0728M	DFT-S-OFDM	QPSK	1	1	10 mm	right	1:1	0.280	1.178	0.330	
680.50	136100	Mid	NR Band n71	20	0	25.5	24.84	A	0.01	0	0728M	DFT-S-OFDM	QPSK	50	28	10 mm	right	1:1	0.340	1.164	0.396	
680.50	136100	Mid	NR Band n71	20	0	25.5	24.79	A	-0.04	0	0728M	DFT-S-OFDM	QPSK	1	1	10 mm	left	1:1	0.175	1.178	0.206	
680.50	136100	Mid	NR Band n71	20	0	25.5	24.84	A	-0.02	0	0728M	DFT-S-OFDM	QPSK	50	28	10 mm	left	1:1	0.176	1.164	0.205	
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 11-59
NR Band n12 Hotspot SAR

MEASUREMENT RESULTS																						
FREQUENCY			Mode	Bandwidth [MHz]	Tune State	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Antenna Config	Power Drift [dB]	MPR [dB]	Serial Number	Waveform	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.																		(W/kg)		(W/kg)	
707.50	141500	Mid	NR Band n12	15	0	25.5	24.73	A	-0.05	0	0728M	DFT-S-OFDM	QPSK	1	40	10 mm	back	1:1	0.385	1.194	0.460	A75
707.50	141500	Mid	NR Band n12	15	0	25.5	24.78	A	-0.03	0	0728M	DFT-S-OFDM	QPSK	36	22	10 mm	back	1:1	0.374	1.180	0.441	
707.50	141500	Mid	NR Band n12	15	0	24.0	23.33	A	-0.02	1.5	0728M	CP-OFDM	QPSK	1	1	10 mm	back	1:1	0.262	1.167	0.306	
707.50	141500	Mid	NR Band n12	15	0	25.5	24.73	A	-0.04	0	0728M	DFT-S-OFDM	QPSK	1	40	10 mm	front	1:1	0.255	1.194	0.304	
707.50	141500	Mid	NR Band n12	15	0	25.5	24.78	A	0.01	0	0728M	DFT-S-OFDM	QPSK	36	22	10 mm	front	1:1	0.259	1.180	0.306	
707.50	141500	Mid	NR Band n12	15	0	25.5	24.73	A	0.00	0	0728M	DFT-S-OFDM	QPSK	1	40	10 mm	bottom	1:1	0.236	1.194	0.282	
707.50	141500	Mid	NR Band n12	15	0	25.5	24.78	A	0.18	0	0728M	DFT-S-OFDM	QPSK	36	22	10 mm	bottom	1:1	0.234	1.180	0.276	
707.50	141500	Mid	NR Band n12	15	0	25.5	24.73	A	-0.05	0	0728M	DFT-S-OFDM	QPSK	1	40	10 mm	right	1:1	0.331	1.194	0.395	
707.50	141500	Mid	NR Band n12	15	0	25.5	24.78	A	-0.01	0	0728M	DFT-S-OFDM	QPSK	36	22	10 mm	right	1:1	0.341	1.180	0.402	
707.50	141500	Mid	NR Band n12	15	0	25.5	24.73	A	0.03	0	0728M	DFT-S-OFDM	QPSK	1	40	10 mm	left	1:1	0.177	1.194	0.211	
707.50	141500	Mid	NR Band n12	15	0	25.5	24.78	A	0.00	0	0728M	DFT-S-OFDM	QPSK	36	22	10 mm	left	1:1	0.182	1.180	0.215	
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 11-60
NR Band n5 Hotspot SAR

MEASUREMENT RESULTS																						
FREQUENCY			Mode	Bandwidth [MHz]	Tune State	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Antenna Config	Power Drift [dB]	MPR [dB]	Serial Number	Waveform	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.																		(W/kg)		(W/kg)	
836.50	167300	Mid	NR Band n5 (Cell)	20	26	25.5	24.64	A	0.00	0	0679M	DFT-S-OFDM	QPSK	1	104	10 mm	back	1:1	0.639	1.219	0.779	A77
836.50	167300	Mid	NR Band n5 (Cell)	20	26	25.5	24.68	A	0.01	0	0679M	DFT-S-OFDM	QPSK	50	28	10 mm	back	1:1	0.638	1.208	0.771	
836.50	167300	Mid	NR Band n5 (Cell)	20	26	24.0	23.33	A	-0.03	1.5	0679M	CP-OFDM	QPSK	1	1	10 mm	back	1:1	0.354	1.167	0.413	
836.50	167300	Mid	NR Band n5 (Cell)	20	2	25.5	24.64	A	-0.05	0	0679M	DFT-S-OFDM	QPSK	1	104	10 mm	front	1:1	0.449	1.219	0.547	
836.50	167300	Mid	NR Band n5 (Cell)	20	2	25.5	24.68	A	0.00	0	0679M	DFT-S-OFDM	QPSK	50	28	10 mm	front	1:1	0.459	1.208	0.554	
836.50	167300	Mid	NR Band n5 (Cell)	20	26	25.5	24.64	A	0.03	0	0679M	DFT-S-OFDM	QPSK	1	104	10 mm	bottom	1:1	0.397	1.219	0.484	
836.50	167300	Mid	NR Band n5 (Cell)	20	26	25.5	24.68	A	0.03	0	0679M	DFT-S-OFDM	QPSK	50	28	10 mm	bottom	1:1	0.373	1.208	0.451	
836.50	167300	Mid	NR Band n5 (Cell)	20	0	25.5	24.64	A	-0.01	0	0679M	DFT-S-OFDM	QPSK	1	104	10 mm	right	1:1	0.235	1.219	0.286	
836.50	167300	Mid	NR Band n5 (Cell)	20	0	25.5	24.68	A	0.01	0	0679M	DFT-S-OFDM	QPSK	50	28	10 mm	right	1:1	0.210	1.208	0.254	
836.50	167300	Mid	NR Band n5 (Cell)	20	28	25.5	24.64	A	0.07	0	0679M	DFT-S-OFDM	QPSK	1	104	10 mm	left	1:1	0.051	1.219	0.062	
836.50	167300	Mid	NR Band n5 (Cell)	20	28	25.5	24.68	A	0.00	0	0679M	DFT-S-OFDM	QPSK	50	28	10 mm	left	1:1	0.050	1.208	0.060	
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 11-61
NR Band n66 Hotspot SAR

MEASUREMENT RESULTS																						
FREQUENCY			Mode	Bandwidth [MHz]	Tune State	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Antenna Config	Power Drift [dB]	MPR [dB]	Serial Number	Waveform	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.																		(W/kg)		(W/kg)	
1745.00	349000	Mid	NR Band n66 (AWS)	40	0	19.5	19.50	A	-0.03	0	0755M	DFT-S-OFDM	QPSK	1	1	10 mm	back	1:1	0.605	1.000	0.605	
1745.00	349000	Mid	NR Band n66 (AWS)	40	0	19.5	19.36	A	-0.02	0	0755M	DFT-S-OFDM	QPSK	108	0	10 mm	back	1:1	0.630	1.033	0.651	
1745.00	349000	Mid	NR Band n66 (AWS)	40	57	19.5	19.50	A	-0.02	0	0755M	DFT-S-OFDM	QPSK	1	1	10 mm	front	1:1	0.523	1.000	0.523	
1745.00	349000	Mid	NR Band n66 (AWS)	40	57	19.5	19.36	A	0.06	0	0755M	DFT-S-OFDM	QPSK	108	0	10 mm	front	1:1	0.528	1.033	0.545	
1745.00	349000	Mid	NR Band n66 (AWS)	40	61	19.5	19.50	A	-0.09	0	0755M	DFT-S-OFDM	QPSK	1	1	10 mm	bottom	1:1	0.913	1.000	0.913	
1745.00	349000	Mid	NR Band n66 (AWS)	40	61	19.5	19.36	A	-0.03	0	0755M	DFT-S-OFDM	QPSK	108	0	10 mm	bottom	1:1	0.971	1.033	1.003	A79
1745.00	349000	Mid	NR Band n66 (AWS)	40	61	19.5	19.28	A	-0.04	0	0755M	DFT-S-OFDM	QPSK	216	0	10 mm	bottom	1:1	0.970	1.052	1.020	
1745.00	349000	Mid	NR Band n66 (AWS)	40	61	19.5	19.50	A	0.01	0	0755M	CP-OFDM	QPSK	1	1	10 mm	bottom	1:1	0.891	1.000	0.891	
1745.00	349000	Mid	NR Band n66 (AWS)	40	61	19.5	19.50	A	0.02	0	0755M	DFT-S-OFDM	QPSK	1	1	10 mm	right	1:1	0.079	1.000	0.079	
1745.00	349000	Mid	NR Band n66 (AWS)	40	61	19.5	19.36	A	0.02	0	0755M	DFT-S-OFDM	QPSK	108	0	10 mm	right	1:1	0.075	1.033	0.077	
1745.00	349000	Mid	NR Band n66 (AWS)	40	62	19.5	19.50	A	0.03	0	0755M	DFT-S-OFDM	QPSK	1	1	10 mm	left	1:1	0.067	1.000	0.067	
1745.00	349000	Mid	NR Band n66 (AWS)	40	62	19.5	19.36	A	0.04	0	0755M	DFT-S-OFDM	QPSK	108	0	10 mm	left	1:1	0.063	1.033	0.065	
1745.00	349000	Mid	NR Band n66 (AWS)	40	N/A	20.0	19.27	E	-0.03	0	0762M	DFT-S-OFDM	QPSK	1	108	10 mm	back	1:1	0.061	1.183	0.072	
1745.00	349000	Mid	NR Band n66 (AWS)	40	N/A	20.0	19.17	E	-0.02	0	0762M	DFT-S-OFDM	QPSK	108	0	10 mm	back	1:1	0.067	1.211	0.081	
1745.00	349000	Mid	NR Band n66 (AWS)	40	N/A	20.0	19.27	E	0.16	0	0762M	DFT-S-OFDM	QPSK	1	108	10 mm	front	1:1	0.060	1.183	0.071	
1745.00	349000	Mid	NR Band n66 (AWS)	40	N/A	20.0	19.17	E	0.07	0	0762M	DFT-S-OFDM	QPSK	108	0	10 mm	front	1:1	0.070	1.211	0.085	
1745.00	349000	Mid	NR Band n66 (AWS)	40	N/A	20.0	19.27	E	0.19	0	0762M	DFT-S-OFDM	QPSK	1	108	10 mm	top	1:1	0.029	1.183	0.034	
1745.00	349000	Mid	NR Band n66 (AWS)	40	N/A	20.0	19.17	E	0.04	0	0762M	DFT-S-OFDM	QPSK	108	0	10 mm	top	1:1	0.027	1.211	0.033	
1745.00	349000	Mid	NR Band n66 (AWS)	40	N/A	20.0	19.27	E	0.13	0	0762M	DFT-S-OFDM	QPSK	1	108	10 mm	left	1:1	0.116	1.183	0.137	
1745.00	349000	Mid	NR Band n66 (AWS)	40	N/A	20.0	19.17	E	-0.04	0	0762M	DFT-S-OFDM	QPSK	108	0	10 mm	left	1:1	0.123	1.211	0.149	
1745.00	349000	Mid	NR Band n66 (AWS)	40	N/A	20.0	18.83	E	0.02	0	0762M	CP-OFDM	QPSK	1	1	10 mm	left	1:1	0.097	1.309	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 11-62
NR Band n25 Hotspot SAR

MEASUREMENT RESULTS																						
FREQUENCY			Mode	Bandwidth [MHz]	Tune State	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Antenna Config	Power Drift [dB]	MPR [dB]	Serial Number	Waveform	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.																		(W/kg)		(W/kg)	
1882.50	376500	Mid	NR Band n25 (PCS)	40	21	19.5	19.34	A	0.05	0	0730M	DFT-S-OFDM	QPSK	1	1	10 mm	back	1:1	0.465	1.038	0.483	
1882.50	376500	Mid	NR Band n25 (PCS)	40	21	19.5	19.47	A	0.12	0	0730M	DFT-S-OFDM	QPSK	108	0	10 mm	back	1:1	0.399	1.007	0.402	
1882.50	376500	Mid	NR Band n25 (PCS)	40	73	19.5	19.34	A	0.03	0	0730M	DFT-S-OFDM	QPSK	1	1	10 mm	front	1:1	0.277	1.038	0.288	
1882.50	376500	Mid	NR Band n25 (PCS)	40	73	19.5	19.47	A	-0.03	0	0730M	DFT-S-OFDM	QPSK	108	0	10 mm	front	1:1	0.224	1.007	0.226	
1882.50	376500	Mid	NR Band n25 (PCS)	40	22	19.5	19.34	A	-0.13	0	0730M	DFT-S-OFDM	QPSK	1	1	10 mm	bottom	1:1	0.985	1.038	1.022	
1882.50	376500	Mid	NR Band n25 (PCS)	40	22	19.5	19.47	A	-0.12	0	0730M	DFT-S-OFDM	QPSK	108	0	10 mm	bottom	1:1	0.916	1.007	0.922	
1882.50	376500	Mid	NR Band n25 (PCS)	40	22	19.5	19.33	A	-0.03	0	0730M	DFT-S-OFDM	QPSK	216	0	10 mm	bottom	1:1	1.020	1.040	1.061	A81
1882.50	376500	Mid	NR Band n25 (PCS)	40	22	19.5	19.42	A	-0.09	0	0730M	CP-OFDM	QPSK	1	1	10 mm	bottom	1:1	0.967	1.019	0.985	
1882.50	376500	Mid	NR Band n25 (PCS)	40	74	19.5	19.34	A	0.06	0	0730M	DFT-S-OFDM	QPSK	1	1	10 mm	right	1:1	0.047	1.038	0.049	
1882.50	376500	Mid	NR Band n25 (PCS)	40	74	19.5	19.47	A	0.11	0	0730M	DFT-S-OFDM	QPSK	108	0	10 mm	right	1:1	0.040	1.007	0.040	
1882.50	376500	Mid	NR Band n25 (PCS)	40	74	19.5	19.34	A	-0.14	0	0730M	DFT-S-OFDM	QPSK	1	1	10 mm	left	1:1	0.067	1.038	0.070	
1882.50	376500	Mid	NR Band n25 (PCS)	40	74	19.5	19.47	A	-0.02	0	0730M	DFT-S-OFDM	QPSK	108	0	10 mm	left	1:1	0.063	1.007	0.063	
1882.50	376500	Mid	NR Band n25 (PCS)	40	N/A	20.0	19.40	E	0.02	0	0758M	DFT-S-OFDM	QPSK	1	108	10 mm	back	1:1	0.055	1.148	0.063	
1882.50	376500	Mid	NR Band n25 (PCS)	40	N/A	20.0	19.90	E	0.16	0	0758M	DFT-S-OFDM	QPSK	108	108	10 mm	back	1:1	0.058	1.023	0.059	
1882.50	376500	Mid	NR Band n25 (PCS)	40	N/A	20.0	19.40	E	0.03	0	0758M	DFT-S-OFDM	QPSK	1	108	10 mm	front	1:1	0.057	1.148	0.065	
1882.50	376500	Mid	NR Band n25 (PCS)	40	N/A	20.0	19.90	E	0.04	0	0758M	DFT-S-OFDM	QPSK	108	108	10 mm	front	1:1	0.060	1.023	0.061	
1882.50	376500	Mid	NR Band n25 (PCS)	40	N/A	20.0	19.40	E	0.11	0	0758M	DFT-S-OFDM	QPSK	1	108	10 mm	top	1:1	0.034	1.148	0.039	
1882.50	376500	Mid	NR Band n25 (PCS)	40	N/A	20.0	19.90	E	-0.07	0	0758M	DFT-S-OFDM	QPSK	108	108	10 mm	top	1:1	0.030	1.023	0.031	
1882.50	376500	Mid	NR Band n25 (PCS)	40	N/A	20.0	19.40	E	0.02	0	0758M	DFT-S-OFDM	QPSK	1	108	10 mm	left	1:1	0.087	1.148	0.100	
1882.50	376500	Mid	NR Band n25 (PCS)	40	N/A	20.0	19.90	E	0.13	0	0758M	DFT-S-OFDM	QPSK	108	108	10 mm	left	1:1	0.096	1.023	0.098	
1882.50	376500	Mid	NR Band n25 (PCS)	40	N/A	20.0	19.41	E	0.05	0	0758M	CP-OFDM	QPSK	1	1	10 mm	left	1:1	0.094	1.146	0.108	
1882.50	376500	Mid	NR Band n25 (PCS)	40	22	19.5	19.33	A	-0.12	0	0730M	DFT-S-OFDM	QPSK	216	0	10 mm	bottom	1:1	1.000	1.040	1.040	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																	Body 1.6 W/kg (mW/g) averaged over 1 gram					

Note: Blue entry represents variability measurement.

Table 11-63
NR Band n30 Hotspot SAR

MEASUREMENT RESULTS																						
FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Antenna Config	Power Drift [dB]	MPR [dB]	Serial Number	Waveform	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.																	(W/kg)		(W/kg)	
2310.00	462000	Mid	NR Band n30	10	20.0	18.47	A	0.05	0	0692M	DFT-S-OFDM	QPSK	1	1	10 mm	back	1:1	0.268	1.422	0.381	
2310.00	462000	Mid	NR Band n30	10	20.0	18.32	A	0.01	0	0692M	DFT-S-OFDM	QPSK	25	0	10 mm	back	1:1	0.265	1.472	0.390	
2310.00	462000	Mid	NR Band n30	10	20.0	18.47	A	0.04	0	0692M	DFT-S-OFDM	QPSK	1	1	10 mm	front	1:1	0.253	1.422	0.360	
2310.00	462000	Mid	NR Band n30	10	20.0	18.32	A	0.06	0	0692M	DFT-S-OFDM	QPSK	25	0	10 mm	front	1:1	0.247	1.472	0.364	
2310.00	462000	Mid	NR Band n30	10	20.0	18.47	A	0.04	0	0692M	DFT-S-OFDM	QPSK	1	1	10 mm	bottom	1:1	0.786	1.422	1.118	
2310.00	462000	Mid	NR Band n30	10	20.0	18.32	A	0.05	0	0692M	DFT-S-OFDM	QPSK	25	0	10 mm	bottom	1:1	0.778	1.472	1.145	
2310.00	462000	Mid	NR Band n30	10	20.0	18.31	A	-0.04	0	0692M	DFT-S-OFDM	QPSK	50	0	10 mm	bottom	1:1	0.788	1.476	**1.163**	A83
2310.00	462000	Mid	NR Band n30	10	20.0	18.45	A	-0.07	0	0692M	CP-OFDM	QPSK	1	1	10 mm	bottom	1:1	0.777	1.429	1.110	
2310.00	462000	Mid	NR Band n30	10	20.0	18.47	A	0.16	0	0692M	DFT-S-OFDM	QPSK	1	1	10 mm	right	1:1	0.035	1.422	0.050	
2310.00	462000	Mid	NR Band n30	10	20.0	18.32	A	-0.02	0	0692M	DFT-S-OFDM	QPSK	25	0	10 mm	right	1:1	0.032	1.472	0.047	
2310.00	462000	Mid	NR Band n30	10	20.0	18.47	A	0.03	0	0692M	DFT-S-OFDM	QPSK	1	1	10 mm	left	1:1	0.019	1.422	0.027	
2310.00	462000	Mid	NR Band n30	10	20.0	18.32	A	0.05	0	0692M	DFT-S-OFDM	QPSK	25	0	10 mm	left	1:1	0.018	1.472	0.026	
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 11-64
NR Band n41 Hotspot SAR

MEASUREMENT RESULTS																					
FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Antenna Config	Power Drift [dB]	MPR [dB]	Serial Number	Waveform	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.																	(W/kg)		(W/kg)	
2592.99	518598	Mid	NR Band n41	100	14.0	13.60	B	0.01	0	0702M	DFT-S-OFDM	QPSK	1	271	10 mm	back	1:1	0.052	1.096	0.057	
2592.99	518598	Mid	NR Band n41	100	14.0	13.64	B	-0.06	0	0702M	DFT-S-OFDM	QPSK	135	138	10 mm	back	1:1	0.058	1.086	0.063	
2592.99	518598	Mid	NR Band n41	100	14.0	13.60	B	0.05	0	0702M	DFT-S-OFDM	QPSK	1	271	10 mm	front	1:1	0.048	1.096	0.053	
2592.99	518598	Mid	NR Band n41	100	14.0	13.64	B	0.05	0	0702M	DFT-S-OFDM	QPSK	135	138	10 mm	front	1:1	0.050	1.086	0.054	
2592.99	518598	Mid	NR Band n41	100	14.0	13.60	B	0.03	0	0702M	DFT-S-OFDM	QPSK	1	271	10 mm	bottom	1:1	0.067	1.096	0.073	A85
2592.99	518598	Mid	NR Band n41	100	14.0	13.64	B	0.07	0	0702M	DFT-S-OFDM	QPSK	135	138	10 mm	bottom	1:1	0.063	1.086	0.068	
2592.99	518598	Mid	NR Band n41	100	14.0	13.67	B	0.06	0	0702M	CP-OFDM	QPSK	1	1	10 mm	bottom	1:1	0.052	1.079	0.056	
2592.99	518598	Mid	NR Band n41	100	14.0	13.60	B	0.08	0	0702M	DFT-S-OFDM	QPSK	1	271	10 mm	left	1:1	0.026	1.096	0.028	
2592.99	518598	Mid	NR Band n41	100	14.0	13.64	B	0.08	0	0702M	DFT-S-OFDM	QPSK	135	138	10 mm	left	1:1	0.031	1.086	0.034	
2592.99	518598	Mid	NR Band n41	100	16.0	15.46	E	0.14	0	0702M	DFT-S-OFDM	QPSK	1	137	10 mm	back	1:1	0.025	1.132	0.028	
2592.99	518598	Mid	NR Band n41	100	16.0	15.31	E	0.11	0	0702M	DFT-S-OFDM	QPSK	135	0	10 mm	back	1:1	0.021	1.172	0.025	
2592.99	518598	Mid	NR Band n41	100	16.0	15.46	E	0.08	0	0702M	DFT-S-OFDM	QPSK	1	137	10 mm	front	1:1	0.020	1.132	0.023	
2592.99	518598	Mid	NR Band n41	100	16.0	15.31	E	0.06	0	0702M	DFT-S-OFDM	QPSK	135	0	10 mm	front	1:1	0.019	1.172	0.022	
2592.99	518598	Mid	NR Band n41	100	16.0	15.46	E	0.19	0	0702M	DFT-S-OFDM	QPSK	1	137	10 mm	top	1:1	0.062	1.132	0.070	
2592.99	518598	Mid	NR Band n41	100	16.0	15.31	E	0.03	0	0702M	DFT-S-OFDM	QPSK	135	0	10 mm	top	1:1	0.061	1.172	0.071	
2592.99	518598	Mid	NR Band n41	100	16.0	15.12	E	0.04	0	0702M	CP-OFDM	QPSK	1	1	10 mm	top	1:1	0.036	1.225	0.044	
2592.99	518598	Mid	NR Band n41	100	16.0	15.46	E	-0.08	0	0702M	DFT-S-OFDM	QPSK	1	137	10 mm	left	1:1	0.006	1.132	0.007	
2592.99	518598	Mid	NR Band n41	100	16.0	15.31	E	0.07	0	0702M	DFT-S-OFDM	QPSK	135	0	10 mm	left	1:1	0.002	1.172	0.002	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population												Body 1.6 W/kg (mW/g) averaged over 1 gram									

Table 11-65
NR Band n77 Hotspot SAR

MEASUREMENT RESULTS																					
FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Antenna Config	Power Drift [dB]	MPR [dB]	Serial Number	Waveform	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.																	(W/kg)		(W/kg)	
3930.00	662000	High	NR Band n77	100	18.5	18.50	I	0.18	0	3987S	DFT-S-OFDM	QPSK	1	137	10 mm	back	1:1	0.151	1.000	0.151	
3930.00	662000	High	NR Band n77	100	18.5	18.34	I	-0.10	0	3987S	DFT-S-OFDM	QPSK	135	69	10 mm	back	1:1	0.149	1.038	0.155	
3930.00	662000	High	NR Band n77	100	18.5	18.50	I	0.02	0	3987S	DFT-S-OFDM	QPSK	1	137	10 mm	front	1:1	0.118	1.000	0.118	
3930.00	662000	High	NR Band n77	100	18.5	18.34	I	0.03	0	3987S	DFT-S-OFDM	QPSK	135	69	10 mm	front	1:1	0.114	1.038	0.118	
3930.00	662000	High	NR Band n77	100	18.5	18.50	I	-0.04	0	3987S	DFT-S-OFDM	QPSK	1	137	10 mm	right	1:1	0.318	1.000	0.318	A87
3930.00	662000	High	NR Band n77	100	18.5	18.34	I	-0.17	0	3987S	DFT-S-OFDM	QPSK	135	69	10 mm	right	1:1	0.317	1.038	0.329	
3930.00	662000	High	NR Band n77	100	18.5	18.10	I	0.05	0	3987S	CP-OFDM	QPSK	1	1	10 mm	right	1:1	0.316	1.096	0.346	
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 11-66
DTS SISO WLAN Hotspot SAR

MEASUREMENT RESULTS																			
FREQUENCY		Mode	Service	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Spacing	Antenna Config.	Device Serial Number	Data Rate (Mbps)	Side	Duty Cycle (%)	Peak SAR of Area Scan	SAR (1g)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g)	Plot #
MHz	Ch.													W/kg	(W/kg)			(W/kg)	
2437	6	802.11b	DSSS	22	19.5	19.42	0.10	10 mm	1	0123M	1	back	98.9	0.723	0.441	1.019	1.011	0.454	A89
2437	6	802.11b	DSSS	22	19.5	19.42	0.08	10 mm	1	0123M	1	front	98.9	0.049	0.038	1.019	1.011	0.039	
2437	6	802.11b	DSSS	22	19.5	19.42	0.03	10 mm	1	0123M	1	top	98.9	0.162	0.102	1.019	1.011	0.105	
2437	6	802.11b	DSSS	22	19.5	19.42	0.05	10 mm	1	0123M	1	left	98.9	0.081	-	1.019	1.011	-	
2462	11	802.11b	DSSS	22	20.5	19.91	0.10	10 mm	2	0123M	1	back	98.9	0.335	0.230	1.146	1.011	0.266	
2462	11	802.11b	DSSS	22	20.5	19.91	0.07	10 mm	2	0123M	1	front	98.9	0.295	0.198	1.146	1.011	0.229	
2462	11	802.11b	DSSS	22	20.5	19.91	0.05	10 mm	2	0123M	1	left	98.9	0.657	0.395	1.146	1.011	**0.458**	
2412	1	802.11b	DSSS	22	17.0	16.88	0.08	10 mm	2	0774M	1	front	98.9	0.106	0.067	1.028	1.011	0.070	
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 that Antenna 2 front side at maximum allowed power of 17.0 dBm is SISO WLAN SAR with NR Active.

Table 11-67
NII MIMO WLAN Hotspot SAR

MEASUREMENT RESULTS																				
FREQUENCY		Mode	Service	Bandwidth [MHz]	Maximum Allowed Power (Ant 1) [dBm]	Conducted Power (Ant 1) [dBm]	Maximum Allowed Power (Ant 2) [dBm]	Conducted Power (Ant 2) [dBm]	Power Drift [dB]	Spacing	Antenna Config.	Device Serial Number	Data Rate (Mbps)	Side	Duty Cycle (%)	Peak SAR of Area Scan	SAR (1g)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g)	Plot #
MHz	Ch.															W/kg	(W/kg)			(W/kg)	
5785	157	802.11n	OFDM	20	17.5	17.21	17.5	17.46	0.03	10 mm	MIMO	0123M	13	back	98.9	1.136	0.455	1.069	1.011	**0.492**	A91
5785	157	802.11n	OFDM	20	17.5	17.21	17.5	17.46	0.09	10 mm	MIMO	0123M	13	front	98.9	0.221	0.095	1.069	1.011	0.103	
5785	157	802.11n	OFDM	20	17.5	17.21	17.5	17.46	0.08	10 mm	MIMO	0123M	13	top	98.9	0.366	-	1.069	1.011	-	
5785	157	802.11n	OFDM	20	17.5	17.21	17.5	17.46	0.04	10 mm	MIMO	0123M	13	left	98.9	0.782	0.335	1.069	1.011	0.362	
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: To achieve the 20.5 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 17.5 dBm

Table 11-68
DTS Hotspot MIMO SAR during Conditions with 5/6 GHz WLAN and/or 5G NR mmW

MEASUREMENT RESULTS																				
FREQUENCY		Mode	Service	Bandwidth [MHz]	Maximum Allowed Power (Ant 1) [dBm]	Conducted Power (Ant 1) [dBm]	Maximum Allowed Power (Ant 2) [dBm]	Conducted Power (Ant 2) [dBm]	Power Drift [dB]	Spacing	Antenna Config.	Device Serial Number	Data Rate (Mbps)	Side	Duty Cycle (%)	Peak SAR of Area Scan	SAR (1g)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g)	Plot #
MHz	Ch.															W/kg	(W/kg)			(W/kg)	
2462	11	802.11n	OFDM	20	17.0	16.48	17.0	16.94	-0.05	10 mm	MIMO	0774M	13	back	93.4	0.237	0.151	1.127	1.071	0.182	
2462	11	802.11n	OFDM	20	17.0	16.48	17.0	16.94	-0.12	10 mm	MIMO	0774M	13	front	93.4	0.081	0.055	1.127	1.071	0.066	
2462	11	802.11n	OFDM	20	17.0	16.48	17.0	16.94	-0.04	10 mm	MIMO	0774M	13	top	93.4	0.076	0.046	1.127	1.071	0.056	
2462	11	802.11n	OFDM	20	17.0	16.48	17.0	16.94	-0.03	10 mm	MIMO	0774M	13	left	93.4	0.166	0.098	1.127	1.071	0.118	
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: 2.4 GHz MIMO was additionally evaluated at the maximum allowed output power during operations with Simultaneous 2.4 GHz and 5 GHz WLAN. 5 GHz WIFI was not transmitting during the above evaluations.

Table 11-69
WLAN MIMO Hotspot SAR for Conditions with 2.4 GHz WLAN SAR

MEASUREMENT RESULTS																				
FREQUENCY		Mode	Service	Bandwidth [MHz]	Maximum Allowed Power (Ant 1) [dBm]	Conducted Power (Ant 1) [dBm]	Maximum Allowed Power (Ant 2) [dBm]	Conducted Power (Ant 2) [dBm]	Power Drift [dB]	Spacing	Antenna Config.	Device Serial Number	Data Rate (Mbps)	Side	Duty Cycle (%)	Peak SAR of Area Scan	SAR (1g)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g)	Plot #
MHz	Ch.															W/kg	(W/kg)			(W/kg)	
5775	155	802.11ac	OFDM	80	14.0	13.13	14.0	13.31	0.16	10 mm	MIMO	0123M	58.5	back	91.3	0.329	0.130	1.222	1.095	0.174	
5775	155	802.11ac	OFDM	80	14.0	13.13	14.0	13.31	0.05	10 mm	MIMO	0123M	58.5	front	91.3	0.071	0.028	1.222	1.095	0.037	
5775	155	802.11ac	OFDM	80	14.0	13.13	14.0	13.31	0.04	10 mm	MIMO	0123M	58.5	top	91.3	0.066	0.030	1.222	1.095	0.040	
5775	155	802.11ac	OFDM	80	14.0	13.13	14.0	13.31	0.14	10 mm	MIMO	0123M	58.5	left	91.3	0.171	0.070	1.222	1.095	0.094	
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: 5 GHz MIMO was additionally evaluated at the maximum allowed output power during operations with Simultaneous 2.4 GHz and 5 GHz WLAN. 2.4 GHz WIFI was not transmitting during the above evaluations.

Table 11-70
DSS Hotspot SAR

MEASUREMENT RESULTS																	
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Spacing	Antenna Config.	Device Serial Number	Data Rate (Mbps)	Side	Duty Cycle (%)	SAR (1g)	Scaling Factor (Cond Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g)	Plot #
MHz	Ch.												(W/kg)			(W/kg)	
2441	39	Bluetooth	FHSS	17.0	16.29	0.05	10 mm	1	0774M	1	back	77.1	0.080	1.177	1.297	**0.122**	A93
2441	39	Bluetooth	FHSS	17.0	16.29	-0.03	10 mm	1	0774M	1	front	77.1	0.015	1.177	1.297	0.023	
2441	39	Bluetooth	FHSS	17.0	16.29	0.02	10 mm	1	0774M	1	top	77.1	0.014	1.177	1.297	0.021	
2441	39	Bluetooth	FHSS	17.0	16.29	0.05	10 mm	1	0774M	1	left	77.1	0.003	1.177	1.297	0.005	
2441	39	Bluetooth	FHSS	17.0	16.76	-0.05	10 mm	2	0774M	1	back	77.1	0.025	1.056	1.297	0.034	
2441	39	Bluetooth	FHSS	17.0	16.76	-0.03	10 mm	2	0774M	1	front	77.1	0.017	1.056	1.297	0.023	
2441	39	Bluetooth	FHSS	17.0	16.76	-0.15	10 mm	2	0774M	1	left	77.1	0.047	1.056	1.297	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										

11.4 Standalone Phablet SAR Data

Table 11-71
CDMA Phablet SAR Data

MEASUREMENT RESULTS															
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Spacing	Tune State	Device Serial Number	Duty Cycle	Side	SAR (10g)	Scaling Factor	Reported SAR (10g)	Plot #
MHz	Ch.											(W/kg)		(W/kg)	
1880.00	600	PCS CDMA	EVDO Rev. 0	24.0	23.27	0.17	8 mm	21	0691M	1:1	back	0.570	1.183	0.674	
1880.00	600	PCS CDMA	EVDO Rev. 0	24.0	23.27	-0.08	6 mm	21	0691M	1:1	front	0.465	1.183	0.550	
1880.00	600	PCS CDMA	EVDO Rev. 0	24.0	23.27	0.03	11 mm	21	0691M	1:1	bottom	0.858	1.183	1.015	
1880.00	600	PCS CDMA	EVDO Rev. 0	24.0	23.27	0.05	0 mm	21	0691M	1:1	right	0.190	1.183	0.225	
1880.00	600	PCS CDMA	EVDO Rev. 0	24.0	23.27	0.09	0 mm	21	0691M	1:1	left	0.345	1.183	0.408	
1880.00	600	PCS CDMA	EVDO Rev. 0	19.5	19.36	0.13	0 mm	21	0691M	1:1	back	0.843	1.033	0.871	
1880.00	600	PCS CDMA	EVDO Rev. 0	19.5	19.36	-0.08	0 mm	21	0691M	1:1	front	0.637	1.033	0.658	
1851.25	25	PCS CDMA	EVDO Rev. 0	19.5	19.29	0.07	0 mm	21	0691M	1:1	bottom	1.640	1.050	1.722	A94
1880.00	600	PCS CDMA	EVDO Rev. 0	19.5	19.36	0.11	0 mm	21	0691M	1:1	bottom	1.420	1.033	1.467	
1908.75	1175	PCS CDMA	EVDO Rev. 0	19.5	19.19	0.03	0 mm	21	0691M	1:1	bottom	1.450	1.074	1.557	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT **Spatial Peak** **Uncontrolled Exposure/General Population**							**Phablet** **4.0 W/kg (mW/g)** averaged over 10 grams								

Table 11-72
GPRS Phablet SAR Data

MEASUREMENT RESULTS															
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Spacing	Device Serial Number	# of Time Slots	Duty Cycle	Side	SAR (10g)	Scaling Factor	Reported SAR (10g)	Plot #
MHz	Ch.											(W/kg)		(W/kg)	
1880.00	661	GSM 1900	GPRS	26.5	26.30	0.14	8 mm	0691M	3	1:2.76	back	0.263	1.047	0.275	
1880.00	661	GSM 1900	GPRS	26.5	26.30	-0.08	6 mm	0691M	3	1:2.76	front	0.255	1.047	0.267	
1880.00	661	GSM 1900	GPRS	26.5	26.30	0.01	11 mm	0691M	3	1:2.76	bottom	0.390	1.047	0.408	
1880.00	661	GSM 1900	GPRS	26.5	26.30	0.08	0 mm	0691M	3	1:2.76	right	0.091	1.047	0.095	
1880.00	661	GSM 1900	GPRS	26.5	26.30	0.04	0 mm	0691M	3	1:2.76	left	0.153	1.047	0.160	
1880.00	661	GSM 1900	GPRS	23.0	22.11	0.13	0 mm	0691M	4	1:2.076	back	0.581	1.227	0.713	
1880.00	661	GSM 1900	GPRS	23.0	22.11	-0.01	0 mm	0691M	4	1:2.076	front	0.407	1.227	0.499	
1880.00	661	GSM 1900	GPRS	23.0	22.11	-0.03	0 mm	0691M	4	1:2.076	bottom	0.774	1.227	0.950	A95
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							Phablet 4.0 W/kg (mW/g) averaged over 10 grams								

Table 11-73
UMTS 1750 Phablet SAR Data

MEASUREMENT RESULTS															
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Spacing	Tune State	Device Serial Number	Duty Cycle	Side	SAR (10g)	Scaling Factor	Reported SAR (10g)	Plot #
MHz	Ch.											(W/kg)		(W/kg)	
1732.40	1412	UMTS 1750	RMC	24.0	23.92	-0.04	8 mm	59	0737M	1:1	back	0.506	1.019	0.516	
1732.40	1412	UMTS 1750	RMC	24.0	23.92	0.01	6 mm	59	0737M	1:1	front	0.967	1.019	0.985	
1732.40	1412	UMTS 1750	RMC	24.0	23.92	-0.03	11 mm	59	0737M	1:1	bottom	1.020	1.019	1.039	
1732.40	1412	UMTS 1750	RMC	24.0	23.92	0.02	0 mm	59	0737M	1:1	right	0.431	1.019	0.439	
1732.40	1412	UMTS 1750	RMC	24.0	23.92	-0.10	0 mm	59	0737M	1:1	left	0.469	1.019	0.478	
1732.40	1412	UMTS 1750	RMC	19.5	19.18	-0.02	0 mm	59	0737M	1:1	back	1.050	1.076	1.130	
1732.40	1412	UMTS 1750	RMC	19.5	19.18	0.05	0 mm	59	0737M	1:1	front	1.330	1.076	1.431	
1712.40	1312	UMTS 1750	RMC	19.5	19.35	-0.13	0 mm	59	0737M	1:1	bottom	1.510	1.035	1.563	
1732.40	1412	UMTS 1750	RMC	19.5	19.18	-0.14	0 mm	59	0737M	1:1	bottom	1.670	1.076	1.797	A96
1752.60	1513	UMTS 1750	RMC	19.5	19.21	-0.10	0 mm	59	0737M	1:1	bottom	1.600	1.069	1.710	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							Phablet 4.0 W/kg (mW/g) averaged over 10 grams								

Table 11-74
UMTS 1900 Phablet SAR Data

MEASUREMENT RESULTS															
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Spacing	Tune State	Device Serial Number	Duty Cycle	Side	SAR (10g)	Scaling Factor	Reported SAR (10g)	Plot #
MHz	Ch.											(W/kg)		(W/kg)	
1880.00	9400	UMTS 1900	RMC	24.0	23.21	0.02	8 mm	21	0691M	1:1	back	0.677	1.199	0.812	
1880.00	9400	UMTS 1900	RMC	24.0	23.21	-0.03	6 mm	21	0691M	1:1	front	0.548	1.199	0.657	
1880.00	9400	UMTS 1900	RMC	24.0	23.21	0.05	11 mm	21	0691M	1:1	bottom	0.999	1.199	1.198	
1880.00	9400	UMTS 1900	RMC	24.0	23.21	-0.08	0 mm	21	0691M	1:1	right	0.196	1.199	0.235	
1880.00	9400	UMTS 1900	RMC	24.0	23.21	-0.05	0 mm	21	0691M	1:1	left	0.307	1.199	0.368	
1880.00	9400	UMTS 1900	RMC	19.5	19.36	-0.02	0 mm	21	0691M	1:1	back	0.801	1.033	0.827	
1880.00	9400	UMTS 1900	RMC	19.5	19.36	-0.04	0 mm	21	0691M	1:1	front	0.620	1.033	0.640	
1880.00	9400	UMTS 1900	RMC	19.5	19.36	0.19	0 mm	21	0691M	1:1	bottom	1.120	1.033	1.157	A97
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population								Phablet 4.0 W/kg (mW/g) averaged over 10 grams							

Table 11-75
LTE Band 66 (AWS) Phablet SAR

MEASUREMENT RESULTS																								
1 CC Uplink | 2 CC Uplink	Component Carrier	FREQUENCY			Mode	Bandwidth [MHz]	Tune State	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (10g)	Scaling Factor	Reported SAR (10g)	Plot #
		MHz	Ch.																(W/kg)		(W/kg)	
1 CC Uplink	N/A	1720.00	132072	Low	LTE Band 66 (AWS)	20	108	24.0	23.36	0.01	0	0683M	QPSK	1	50	8 mm	back	1:1	0.706	1.159	0.818	
1 CC Uplink	N/A	1720.00	132072	Low	LTE Band 66 (AWS)	20	108	23.0	22.40	0.02	1	0683M	QPSK	50	25	8 mm	back	1:1	0.588	1.148	0.675	
1 CC Uplink	N/A	1720.00	132072	Low	LTE Band 66 (AWS)	20	57	24.0	23.36	-0.11	0	0683M	QPSK	1	50	6 mm	front	1:1	0.670	1.159	0.777	
1 CC Uplink	N/A	1720.00	132072	Low	LTE Band 66 (AWS)	20	57	23.0	22.40	-0.10	1	0683M	QPSK	50	25	6 mm	front	1:1	0.551	1.148	0.633	
1 CC Uplink	N/A	1720.00	132072	Low	LTE Band 66 (AWS)	20	60	24.0	23.36	-0.07	0	0683M	QPSK	1	50	11 mm	bottom	1:1	0.955	1.159	1.107	
1 CC Uplink	N/A	1720.00	132072	Low	LTE Band 66 (AWS)	20	60	23.0	22.40	-0.04	1	0683M	QPSK	50	25	11 mm	bottom	1:1	0.776	1.148	0.891	
1 CC Uplink	N/A	1720.00	132072	Low	LTE Band 66 (AWS)	20	61	24.0	23.36	-0.12	0	0683M	QPSK	1	50	0 mm	right	1:1	0.332	1.159	0.385	
1 CC Uplink	N/A	1720.00	132072	Low	LTE Band 66 (AWS)	20	61	23.0	22.40	-0.06	1	0683M	QPSK	50	25	0 mm	right	1:1	0.273	1.148	0.313	
1 CC Uplink	N/A	1720.00	132072	Low	LTE Band 66 (AWS)	20	61	24.0	23.36	-0.04	0	0683M	QPSK	1	50	0 mm	left	1:1	0.377	1.159	0.437	
1 CC Uplink	N/A	1720.00	132072	Low	LTE Band 66 (AWS)	20	61	23.0	22.40	-0.04	1	0683M	QPSK	50	25	0 mm	left	1:1	0.324	1.148	0.372	
1 CC Uplink	N/A	1745.00	132322	Mid	LTE Band 66 (AWS)	20	60	19.5	19.36	0.04	0	0683M	QPSK	1	50	0 mm	back	1:1	1.100	1.033	1.136	
1 CC Uplink	N/A	1745.00	132322	Mid	LTE Band 66 (AWS)	20	60	19.5	19.34	-0.01	0	0683M	QPSK	50	25	0 mm	back	1:1	1.140	1.038	1.183	
1 CC Uplink	N/A	1745.00	132322	Mid	LTE Band 66 (AWS)	20	0	19.5	19.36	0.05	0	0683M	QPSK	1	50	0 mm	front	1:1	1.180	1.033	1.219	
1 CC Uplink	N/A	1745.00	132322	Mid	LTE Band 66 (AWS)	20	0	19.5	19.34	0.01	0	0683M	QPSK	50	25	0 mm	front	1:1	1.210	1.038	1.256	
1 CC Uplink	N/A	1745.00	132322	Mid	LTE Band 66 (AWS)	20	22	19.5	19.36	0.14	0	0683M	QPSK	1	50	0 mm	bottom	1:1	1.740	1.033	1.797	
1 CC Uplink	N/A	1720.00	132072	Low	LTE Band 66 (AWS)	20	5	19.5	19.33	-0.02	0	0683M	QPSK	50	25	0 mm	bottom	1:1	1.760	1.040	1.830	
1 CC Uplink	N/A	1745.00	132322	Mid	LTE Band 66 (AWS)	20	22	19.5	19.34	-0.19	0	0683M	QPSK	50	25	0 mm	bottom	1:1	1.760	1.038	1.827	
1 CC Uplink	N/A	1770.00	132572	High	LTE Band 66 (AWS)	20	26	19.5	19.24	-0.18	0	0683M	QPSK	50	0	0 mm	bottom	1:1	1.780	1.062	1.890	
1 CC Uplink	N/A	1770.00	132572	High	LTE Band 66 (AWS)	20	26	19.5	19.26	-0.12	0	0683M	QPSK	50	25	0 mm	bottom	1:1	1.780	1.057	1.881	
1 CC Uplink	N/A	1775.00	132622	High	LTE Band 66 (AWS)	10	26	19.5	19.15	-0.18	0	0683M	QPSK	25	0	0 mm	bottom	1:1	1.740	1.084	1.886	
2 CC Uplink 66C	PCC	1770.00	132572	High	LTE Band 66 (AWS)	20	26	19.5	19.48	-0.18	0	0683M	QPSK	50	0	0 mm	bottom	1:1	1.970	1.005	1.980	A98
	SCC	1750.20	132374												50							
2 CC Uplink 66B	PCC	1775.00	132622	High	LTE Band 66 (AWS)	10	26	19.5	19.06	-0.16	0	0683M	QPSK	25	0	0 mm	bottom	1:1	1.770	1.107	1.959	
	SCC	1765.10	132523												25							
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population									Phablet 4.0 W/kg (mW/g) averaged over 10 grams													

Table 11-76
LTE Band 25 (PCS) Phablet SAR

MEASUREMENT RESULTS																					
FREQUENCY			Mode	Bandwidth [MHz]	Tune State	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (10g)	Scaling Factor	Reported SAR (10g)	Plot #
MHz	Ch.																(W/kg)		(W/kg)	
1860.00	26140	Low	LTE Band 25 (PCS)	20	108	24.5	23.33	0.08	0	0709M	QPSK	1	50	8 mm	back	1:1	0.815	1.309	1.067	
1860.00	26140	Low	LTE Band 25 (PCS)	20	108	23.5	22.44	0.04	1	0709M	QPSK	50	25	8 mm	back	1:1	0.668	1.276	0.852	
1860.00	26140	Low	LTE Band 25 (PCS)	20	21	24.5	23.33	-0.09	0	0709M	QPSK	1	50	6 mm	front	1:1	0.838	1.309	1.097	
1860.00	26140	Low	LTE Band 25 (PCS)	20	21	23.5	22.44	-0.06	1	0709M	QPSK	50	25	6 mm	front	1:1	0.695	1.276	0.887	
1860.00	26140	Low	LTE Band 25 (PCS)	20	75	24.5	23.33	-0.04	0	0709M	QPSK	1	50	11 mm	bottom	1:1	1.140	1.309	1.492	
1860.00	26140	Low	LTE Band 25 (PCS)	20	75	23.5	22.44	-0.07	1	0709M	QPSK	50	25	11 mm	bottom	1:1	0.936	1.276	1.194	
1860.00	26140	Low	LTE Band 25 (PCS)	20	21	24.5	23.33	0.04	0	0709M	QPSK	1	50	0 mm	right	1:1	0.346	1.309	0.453	
1860.00	26140	Low	LTE Band 25 (PCS)	20	21	23.5	22.44	0.11	1	0709M	QPSK	50	25	0 mm	right	1:1	0.288	1.276	0.367	
1860.00	26140	Low	LTE Band 25 (PCS)	20	75	24.5	23.33	-0.05	0	0709M	QPSK	1	50	0 mm	left	1:1	0.303	1.309	0.397	
1860.00	26140	Low	LTE Band 25 (PCS)	20	75	23.5	22.44	0.03	1	0709M	QPSK	50	25	0 mm	left	1:1	0.255	1.276	0.325	
1860.00	26140	Low	LTE Band 25 (PCS)	20	75	19.5	19.50	0.08	0	0709M	QPSK	1	50	0 mm	back	1:1	0.997	1.000	0.997	
1860.00	26140	Low	LTE Band 25 (PCS)	20	75	19.5	19.48	0.13	0	0709M	QPSK	50	0	0 mm	back	1:1	1.020	1.005	1.025	
1860.00	26140	Low	LTE Band 25 (PCS)	20	99	19.5	19.50	-0.13	0	0709M	QPSK	1	50	0 mm	front	1:1	0.747	1.000	0.747	
1860.00	26140	Low	LTE Band 25 (PCS)	20	99	19.5	19.48	-0.13	0	0709M	QPSK	50	0	0 mm	front	1:1	0.747	1.005	0.751	
1860.00	26140	Low	LTE Band 25 (PCS)	20	27	19.5	19.50	0.12	0	0709M	QPSK	1	50	0 mm	bottom	1:1	1.460	1.000	1.460	
1860.00	26140	Low	LTE Band 25 (PCS)	20	27	19.5	19.48	0.12	0	0709M	QPSK	50	0	0 mm	bottom	1:1	1.540	1.005	1.548	A99
1882.50	26365	Mid	LTE Band 25 (PCS)	20	27	19.5	19.18	0.14	0	0709M	QPSK	50	25	0 mm	bottom	1:1	1.490	1.076	1.603	
1905.00	26590	High	LTE Band 25 (PCS)	20	27	19.5	19.46	0.06	0	0709M	QPSK	50	50	0 mm	bottom	1:1	1.310	1.009	1.322	

ANSI / IEEE C95.1 1992 - SAFETY LIMIT	Phablet
Spatial Peak	4.0 W/kg (mW/g)
Uncontrolled Exposure/General Population	averaged over 10 grams

Table 11-77
LTE Band 30 Phablet SAR

MEASUREMENT RESULTS																				
FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (10g)	Scaling Factor	Reported SAR (10g)	Plot #
MHz	Ch.															(W/kg)		(W/kg)	
2310.00	27710	Mid	LTE Band 30	10	24.0	23.13	-0.03	0	0721M	QPSK	1	0	8 mm	back	1:1	0.546	1.222	0.667	
2310.00	27710	Mid	LTE Band 30	10	23.0	22.04	0.05	1	0721M	QPSK	25	25	8 mm	back	1:1	0.427	1.247	0.532	
2310.00	27710	Mid	LTE Band 30	10	24.0	23.13	-0.06	0	0721M	QPSK	1	0	6 mm	front	1:1	0.755	1.222	0.923	
2310.00	27710	Mid	LTE Band 30	10	23.0	22.04	-0.06	1	0721M	QPSK	25	25	6 mm	front	1:1	0.641	1.247	0.799	
2310.00	27710	Mid	LTE Band 30	10	24.0	23.13	-0.03	0	0721M	QPSK	1	0	11 mm	bottom	1:1	0.976	1.222	1.193	
2310.00	27710	Mid	LTE Band 30	10	23.0	22.04	-0.02	1	0721M	QPSK	25	25	11 mm	bottom	1:1	0.720	1.247	0.898	
2310.00	27710	Mid	LTE Band 30	10	24.0	23.13	-0.03	0	0721M	QPSK	1	0	0 mm	right	1:1	0.282	1.222	0.345	
2310.00	27710	Mid	LTE Band 30	10	23.0	22.04	-0.04	1	0721M	QPSK	25	25	0 mm	right	1:1	0.229	1.247	0.286	
2310.00	27710	Mid	LTE Band 30	10	24.0	23.13	-0.03	0	0721M	QPSK	1	0	0 mm	left	1:1	0.222	1.222	0.271	
2310.00	27710	Mid	LTE Band 30	10	23.0	22.04	-0.17	1	0721M	QPSK	25	25	0 mm	left	1:1	0.176	1.247	0.219	
2310.00	27710	Mid	LTE Band 30	10	21.0	20.18	0.10	0	0721M	QPSK	1	0	0 mm	back	1:1	1.640	1.208	1.981	
2310.00	27710	Mid	LTE Band 30	10	21.0	20.16	0.10	0	0721M	QPSK	25	0	0 mm	back	1:1	1.680	1.213	2.038	A100
2310.00	27710	Mid	LTE Band 30	10	21.0	20.14	-0.02	0	0721M	QPSK	50	0	0 mm	back	1:1	1.560	1.219	1.902	
2310.00	27710	Mid	LTE Band 30	10	21.0	20.18	-0.08	0	0721M	QPSK	1	0	0 mm	front	1:1	1.310	1.208	1.582	
2310.00	27710	Mid	LTE Band 30	10	21.0	20.16	-0.13	0	0721M	QPSK	25	0	0 mm	front	1:1	1.320	1.213	1.601	
2310.00	27710	Mid	LTE Band 30	10	21.0	20.18	0.06	0	0721M	QPSK	1	0	0 mm	bottom	1:1	1.580	1.208	1.909	
2310.00	27710	Mid	LTE Band 30	10	21.0	20.16	0.08	0	0721M	QPSK	25	0	0 mm	bottom	1:1	1.620	1.213	1.965	

ANSI / IEEE C95.1 1992 - SAFETY LIMIT	Phablet
Spatial Peak	4.0 W/kg (mW/g)
Uncontrolled Exposure/General Population	averaged over 10 grams

Table 11-78
LTE Band 7 Phablet SAR

MEASUREMENT RESULTS																				
FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (10g)	Scaling Factor	Reported SAR (10g)	Plot #
MHz	Ch.															(W/kg)		(W/kg)	
2560.00	21350	High	LTE Band 7	20	24.0	23.27	-0.03	0	0721M	QPSK	1	0	8 mm	back	1:1	0.307	1.183	0.363	
2560.00	21350	High	LTE Band 7	20	23.0	22.38	-0.03	1	0721M	QPSK	50	25	8 mm	back	1:1	0.246	1.153	0.284	
2560.00	21350	High	LTE Band 7	20	24.0	23.27	0.04	0	0721M	QPSK	1	0	6 mm	front	1:1	0.429	1.183	0.508	
2560.00	21350	High	LTE Band 7	20	23.0	22.38	-0.02	1	0721M	QPSK	50	25	6 mm	front	1:1	0.347	1.153	0.400	
2560.00	21350	High	LTE Band 7	20	24.0	23.27	-0.12	0	0721M	QPSK	1	0	11 mm	bottom	1:1	0.532	1.183	0.629	
2560.00	21350	High	LTE Band 7	20	23.0	22.38	-0.13	1	0721M	QPSK	50	25	11 mm	bottom	1:1	0.427	1.153	0.492	
2560.00	21350	High	LTE Band 7	20	24.0	23.27	0.07	0	0721M	QPSK	1	0	0 mm	left	1:1	0.643	1.183	0.761	
2560.00	21350	High	LTE Band 7	20	23.0	22.38	-0.08	1	0721M	QPSK	50	25	0 mm	left	1:1	0.487	1.153	0.562	
2560.00	21350	High	LTE Band 7	20	21.0	20.46	-0.04	0	0721M	QPSK	1	0	0 mm	back	1:1	1.680	1.132	1.902	
2510.00	20850	Low	LTE Band 7	20	21.0	20.31	0.02	0	0721M	QPSK	50	25	0 mm	back	1:1	1.660	1.172	1.946	
2535.00	21100	Mid	LTE Band 7	20	21.0	20.34	-0.14	0	0721M	QPSK	50	25	0 mm	back	1:1	1.750	1.164	2.037	A101
2560.00	21350	High	LTE Band 7	20	21.0	20.44	-0.04	0	0721M	QPSK	50	0	0 mm	back	1:1	1.690	1.138	1.923	
2560.00	21350	High	LTE Band 7	20	21.0	20.39	-0.04	0	0721M	QPSK	100	0	0 mm	back	1:1	1.660	1.151	1.911	
2560.00	21350	High	LTE Band 7	20	21.0	20.46	-0.06	0	0721M	QPSK	1	0	0 mm	front	1:1	1.200	1.132	1.358	
2560.00	21350	High	LTE Band 7	20	21.0	20.44	-0.02	0	0721M	QPSK	50	0	0 mm	front	1:1	1.230	1.138	1.400	
2560.00	21350	High	LTE Band 7	20	21.0	20.46	-0.03	0	0721M	QPSK	1	0	0 mm	bottom	1:1	1.560	1.132	1.766	
2560.00	21350	High	LTE Band 7	20	21.0	20.44	-0.03	0	0721M	QPSK	50	0	0 mm	bottom	1:1	1.560	1.138	1.775	

ANSI / IEEE C95.1 1992 - SAFETY LIMIT	Phablet
Spatial Peak	4.0 W/kg (mW/g)
Uncontrolled Exposure/General Population	averaged over 10 grams

Table 11-79
LTE Band 41 Phablet SAR

MEASUREMENT RESULTS																					
1 CC Uplink | 2 CC Uplink, Power Class	Component Carrier	FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (10g)	Scaling Factor	Reported SAR (10g)	Plot #
		MHz	Ch.															(W/kg)		(W/kg)	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	25.0	24.00	-0.12	0	0704M	QPSK	1	50	8 mm	back	1:1.58	0.375	1.259	0.472	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	24.0	23.05	-0.13	1	0704M	QPSK	50	25	8 mm	back	1:1.58	0.303	1.245	0.377	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	25.0	24.00	-0.03	0	0704M	QPSK	1	50	6 mm	front	1:1.58	0.371	1.259	0.467	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	24.0	23.05	-0.07	1	0704M	QPSK	50	25	6 mm	front	1:1.58	0.285	1.245	0.355	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	25.0	24.00	0.01	0	0704M	QPSK	1	50	11 mm	bottom	1:1.58	0.388	1.259	0.488	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	24.0	23.05	0.01	1	0704M	QPSK	50	25	11 mm	bottom	1:1.58	0.316	1.245	0.393	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	25.0	24.00	-0.04	0	0704M	QPSK	1	50	0 mm	left	1:1.58	0.359	1.259	0.452	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	24.0	23.05	-0.03	1	0704M	QPSK	50	25	0 mm	left	1:1.58	0.278	1.245	0.346	
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	LTE Band 41	20	23.0	22.85	-0.11	0	0704M	QPSK	1	0	0 mm	back	1:1.58	1.160	1.035	1.201	A102
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	LTE Band 41	20	23.0	22.83	-0.01	0	0704M	QPSK	50	0	0 mm	back	1:1.58	1.120	1.040	1.165	
1 CC Uplink - Power Class 2	N/A	2549.50	40185	Low-Mid	LTE Band 41	20	24.6	24.30	-0.03	0	0704M	QPSK	1	0	0 mm	back	1:2.31	1.130	1.072	1.211	
2 CC Uplink - Power Class 3	PCC	2549.50	40185	Low-Mid	LTE Band 41	20	23.0	22.80	-0.10	0	0704M	QPSK	1	0	0 mm	back	1:1.58	1.120	1.047	1.173	
	SCC	2529.70	39987											99							
2 CC Uplink - Power Class 2	PCC	2549.50	40185	Low-Mid	LTE Band 41	20	24.6	24.31	-0.08	0	0704M	QPSK	1	0	0 mm	back	1:2.31	1.140	1.069	1.219	
	SCC	2529.70	39987											99							
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	LTE Band 41	20	23.0	22.85	-0.10	0	0704M	QPSK	1	0	0 mm	front	1:1.58	0.700	1.035	0.725	
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	LTE Band 41	20	23.0	22.83	-0.03	0	0704M	QPSK	50	0	0 mm	front	1:1.58	0.658	1.040	0.684	
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	LTE Band 41	20	23.0	22.85	-0.06	0	0704M	QPSK	1	0	0 mm	bottom	1:1.58	0.906	1.035	0.938	
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	LTE Band 41	20	23.0	22.83	0.00	0	0704M	QPSK	50	0	0 mm	bottom	1:1.58	0.873	1.040	0.908	

ANSI / IEEE C95.1 1992 - SAFETY LIMIT	Phablet
Spatial Peak	4.0 W/kg (mW/g)
Uncontrolled Exposure/General Population	averaged over 10 grams

Table 11-80
NR Band n66 Phablet SAR

MEASUREMENT RESULTS																							
FREQUENCY			Mode	Bandwidth [MHz]	Tune State	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Antenna Config	Power Drift [dB]	MPR [dB]	Serial Number	Waveform	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (10g)	Scaling Factor	Reported SAR (10g)	Plot #
MHz	Ch.																		(W/kg)		(W/kg)	
1745.00	349000	Mid	NR Band n66 (AWS)	40	108	24.8	24.48	A	-0.07	0	0755M	DFT-S-OFDM	QPSK	1	108	8 mm	back	1:1	1.270	1.076	1.367	
1745.00	349000	Mid	NR Band n66 (AWS)	40	108	24.8	24.49	A	-0.03	0	0755M	DFT-S-OFDM	QPSK	108	54	8 mm	back	1:1	1.350	1.074	1.450	
1745.00	349000	Mid	NR Band n66 (AWS)	40	57	24.8	24.48	A	0.12	0	0755M	DFT-S-OFDM	QPSK	1	108	6 mm	front	1:1	1.520	1.076	1.636	
1745.00	349000	Mid	NR Band n66 (AWS)	40	57	24.8	24.49	A	0.04	0	0755M	DFT-S-OFDM	QPSK	108	54	6 mm	front	1:1	1.570	1.074	1.686	
1745.00	349000	Mid	NR Band n66 (AWS)	40	60	24.8	24.48	A	-0.03	0	0755M	DFT-S-OFDM	QPSK	1	108	11 mm	bottom	1:1	1.410	1.076	1.517	
1745.00	349000	Mid	NR Band n66 (AWS)	40	60	24.8	24.49	A	-0.06	0	0755M	DFT-S-OFDM	QPSK	108	54	11 mm	bottom	1:1	1.470	1.074	1.579	
1745.00	349000	Mid	NR Band n66 (AWS)	40	61	24.8	24.48	A	0.08	0	0755M	DFT-S-OFDM	QPSK	1	108	0 mm	right	1:1	0.518	1.076	0.557	
1745.00	349000	Mid	NR Band n66 (AWS)	40	61	24.8	24.49	A	0.07	0	0755M	DFT-S-OFDM	QPSK	108	54	0 mm	right	1:1	0.532	1.074	0.571	
1745.00	349000	Mid	NR Band n66 (AWS)	40	61	24.8	24.48	A	-0.01	0	0755M	DFT-S-OFDM	QPSK	1	108	0 mm	left	1:1	0.547	1.076	0.589	
1745.00	349000	Mid	NR Band n66 (AWS)	40	61	24.8	24.49	A	0.13	0	0755M	DFT-S-OFDM	QPSK	108	54	0 mm	left	1:1	0.582	1.074	0.625	
1745.00	349000	Mid	NR Band n66 (AWS)	40	60	19.5	19.50	A	0.02	0	0755M	DFT-S-OFDM	QPSK	1	1	0 mm	back	1:1	1.390	1.000	1.390	
1745.00	349000	Mid	NR Band n66 (AWS)	40	60	19.5	19.36	A	0.14	0	0755M	DFT-S-OFDM	QPSK	108	0	0 mm	back	1:1	1.440	1.033	1.488	
1745.00	349000	Mid	NR Band n66 (AWS)	40	0	19.5	19.50	A	0.04	0	0755M	DFT-S-OFDM	QPSK	1	1	0 mm	front	1:1	1.450	1.000	1.450	
1745.00	349000	Mid	NR Band n66 (AWS)	40	0	19.5	19.36	A	0.12	0	0755M	DFT-S-OFDM	QPSK	108	0	0 mm	front	1:1	1.540	1.033	1.591	
1745.00	349000	Mid	NR Band n66 (AWS)	40	22	19.5	19.50	A	-0.08	0	0755M	DFT-S-OFDM	QPSK	1	1	0 mm	bottom	1:1	1.900	1.000	1.900	
1745.00	349000	Mid	NR Band n66 (AWS)	40	22	19.5	19.36	A	-0.19	0	0755M	DFT-S-OFDM	QPSK	108	0	0 mm	bottom	1:1	2.010	1.033	2.076	A103
1745.00	349000	Mid	NR Band n66 (AWS)	40	22	19.5	19.28	A	-0.03	0	0755M	DFT-S-OFDM	QPSK	216	0	0 mm	bottom	1:1	1.720	1.052	1.809	
1745.00	349000	Mid	NR Band n66 (AWS)	40	22	19.5	19.50	A	-0.13	0	0755M	CP-OFDM	QPSK	1	1	0 mm	bottom	1:1	1.910	1.000	1.910	
1745.00	349000	Mid	NR Band n66 (AWS)	40	22	19.5	19.36	A	0.01	0	0755M	DFT-S-OFDM	QPSK	108	0	0 mm	bottom	1:1	1.970	1.033	2.035	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																			Phablet 4.0 W/kg (mW/g) averaged over 10 grams			

Note: Blue entry represents variability measurement.

Table 11-81
NR Band n25 Phablet SAR

MEASUREMENT RESULTS																							
FREQUENCY			Mode	Bandwidth [MHz]	Tune State	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Antenna Config	Power Drift [dB]	MPR [dB]	Serial Number	Waveform	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (10g)	Scaling Factor	Reported SAR (10g)	Plot #
MHz	Ch.																		(W/kg)		(W/kg)	
1882.50	376500	Mid	NR Band n25 (PCS)	40	108	24.8	24.01	A	0.01	0	0730M	DFT-S-OFDM	QPSK	1	214	8 mm	back	1:1	0.577	1.199	0.692	
1882.50	376500	Mid	NR Band n25 (PCS)	40	108	24.8	23.98	A	0.09	0	0730M	DFT-S-OFDM	QPSK	108	54	8 mm	back	1:1	0.617	1.208	0.745	
1882.50	376500	Mid	NR Band n25 (PCS)	40	21	24.8	24.01	A	-0.04	0	0730M	DFT-S-OFDM	QPSK	1	214	6 mm	front	1:1	1.030	1.199	1.235	
1882.50	376500	Mid	NR Band n25 (PCS)	40	21	24.8	23.98	A	-0.05	0	0730M	DFT-S-OFDM	QPSK	108	54	6 mm	front	1:1	0.883	1.208	1.067	
1882.50	376500	Mid	NR Band n25 (PCS)	40	75	24.8	24.01	A	-0.12	0	0730M	DFT-S-OFDM	QPSK	1	214	11 mm	bottom	1:1	1.410	1.199	1.691	
1882.50	376500	Mid	NR Band n25 (PCS)	40	75	24.8	23.98	A	0.04	0	0730M	DFT-S-OFDM	QPSK	108	54	11 mm	bottom	1:1	1.160	1.208	1.401	
1882.50	376500	Mid	NR Band n25 (PCS)	40	21	24.8	24.01	A	0.04	0	0730M	DFT-S-OFDM	QPSK	1	214	0 mm	right	1:1	0.291	1.199	0.349	
1882.50	376500	Mid	NR Band n25 (PCS)	40	21	24.8	23.98	A	0.01	0	0730M	DFT-S-OFDM	QPSK	108	54	0 mm	right	1:1	0.211	1.208	0.255	
1882.50	376500	Mid	NR Band n25 (PCS)	40	75	24.8	24.01	A	-0.04	0	0730M	DFT-S-OFDM	QPSK	1	214	0 mm	left	1:1	0.317	1.199	0.380	
1882.50	376500	Mid	NR Band n25 (PCS)	40	75	24.8	23.98	A	-0.13	0	0730M	DFT-S-OFDM	QPSK	108	54	0 mm	left	1:1	0.348	1.208	0.420	
1882.50	376500	Mid	NR Band n25 (PCS)	40	75	19.5	19.34	A	0.16	0	0730M	DFT-S-OFDM	QPSK	1	1	0 mm	back	1:1	1.160	1.038	1.204	
1882.50	376500	Mid	NR Band n25 (PCS)	40	75	19.5	19.47	A	0.02	0	0730M	DFT-S-OFDM	QPSK	108	0	0 mm	back	1:1	1.110	1.007	1.118	
1882.50	376500	Mid	NR Band n25 (PCS)	40	99	19.5	19.34	A	-0.11	0	0730M	DFT-S-OFDM	QPSK	1	1	0 mm	front	1:1	0.670	1.038	0.695	
1882.50	376500	Mid	NR Band n25 (PCS)	40	99	19.5	19.47	A	-0.08	0	0730M	DFT-S-OFDM	QPSK	108	0	0 mm	front	1:1	0.701	1.007	0.706	
1882.50	376500	Mid	NR Band n25 (PCS)	40	27	19.5	19.34	A	-0.02	0	0730M	DFT-S-OFDM	QPSK	1	1	0 mm	bottom	1:1	1.520	1.038	1.578	
1882.50	376500	Mid	NR Band n25 (PCS)	40	27	19.5	19.47	A	-0.02	0	0730M	DFT-S-OFDM	QPSK	108	0	0 mm	bottom	1:1	1.380	1.007	1.390	
1882.50	376500	Mid	NR Band n25 (PCS)	40	27	19.5	19.42	A	0.00	0	0730M	CP-OFDM	QPSK	1	1	0 mm	bottom	1:1	1.530	1.019	1.559	A104
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																			Phablet 4.0 W/kg (mW/g) averaged over 10 grams			

Table 11-82
NR Band n30 Phablet SAR

MEASUREMENT RESULTS																						
FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Antenna Config	Power Drift [dB]	MPR [dB]	Serial Number	Waveform	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (10g)	Scaling Factor	Reported SAR (10g)	Plot #
MHz	Ch.																	(W/kg)		(W/kg)	
2310.00	462000	Mid	NR Band n30	10	24.0	23.44	A	-0.16	0	0692M	DFT-S-OFDM	QPSK	1	26	8 mm	back	1:1	0.670	1.138	0.762	
2310.00	462000	Mid	NR Band n30	10	24.0	23.34	A	-0.17	0	0692M	DFT-S-OFDM	QPSK	25	14	8 mm	back	1:1	0.701	1.164	0.816	
2310.00	462000	Mid	NR Band n30	10	24.0	23.44	A	-0.05	0	0692M	DFT-S-OFDM	QPSK	1	26	6 mm	front	1:1	0.832	1.138	0.947	
2310.00	462000	Mid	NR Band n30	10	24.0	23.34	A	-0.08	0	0692M	DFT-S-OFDM	QPSK	25	14	6 mm	front	1:1	0.939	1.164	1.093	
2310.00	462000	Mid	NR Band n30	10	24.0	23.44	A	-0.19	0	0692M	DFT-S-OFDM	QPSK	1	26	11 mm	bottom	1:1	1.140	1.138	1.297	
2310.00	462000	Mid	NR Band n30	10	24.0	23.34	A	-0.14	0	0692M	DFT-S-OFDM	QPSK	25	14	11 mm	bottom	1:1	1.150	1.164	1.339	
2310.00	462000	Mid	NR Band n30	10	24.0	23.44	A	-0.01	0	0692M	DFT-S-OFDM	QPSK	1	26	0 mm	right	1:1	0.285	1.138	0.324	
2310.00	462000	Mid	NR Band n30	10	24.0	23.34	A	0.04	0	0692M	DFT-S-OFDM	QPSK	25	14	0 mm	right	1:1	0.287	1.164	0.334	
2310.00	462000	Mid	NR Band n30	10	24.0	23.44	A	-0.04	0	0692M	DFT-S-OFDM	QPSK	1	26	0 mm	left	1:1	0.207	1.138	0.236	
2310.00	462000	Mid	NR Band n30	10	24.0	23.34	A	-0.03	0	0692M	DFT-S-OFDM	QPSK	25	14	0 mm	left	1:1	0.205	1.164	0.239	
2310.00	462000	Mid	NR Band n30	10	21.0	19.14	A	-0.04	0	0692M	DFT-S-OFDM	QPSK	1	26	0 mm	back	1:1	1.280	1.535	1.965	
2310.00	462000	Mid	NR Band n30	10	21.0	19.21	A	-0.16	0	0692M	DFT-S-OFDM	QPSK	25	14	0 mm	back	1:1	1.350	1.510	2.039	
2310.00	462000	Mid	NR Band n30	10	21.0	19.13	A	-0.08	0	0692M	DFT-S-OFDM	QPSK	50	0	0 mm	back	1:1	1.250	1.538	1.923	
2310.00	462000	Mid	NR Band n30	10	21.0	19.14	A	-0.08	0	0692M	DFT-S-OFDM	QPSK	1	26	0 mm	front	1:1	1.110	1.535	1.704	
2310.00	462000	Mid	NR Band n30	10	21.0	19.21	A	0.01	0	0692M	DFT-S-OFDM	QPSK	25	14	0 mm	front	1:1	1.130	1.510	1.706	
2310.00	462000	Mid	NR Band n30	10	21.0	19.14	A	-0.09	0	0692M	DFT-S-OFDM	QPSK	1	26	0 mm	bottom	1:1	1.420	1.535	2.180	A105
2310.00	462000	Mid	NR Band n30	10	21.0	19.21	A	0.05	0	0692M	DFT-S-OFDM	QPSK	25	14	0 mm	bottom	1:1	1.310	1.510	1.978	
2310.00	462000	Mid	NR Band n30	10	21.0	19.13	A	-0.02	0	0692M	DFT-S-OFDM	QPSK	50	0	0 mm	bottom	1:1	1.160	1.538	1.784	
2310.00	462000	Mid	NR Band n30	10	21.0	19.31	A	0.08	0	0692M	CP-OFDM	QPSK	1	1	0 mm	bottom	1:1	1.250	1.476	1.845	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																						
Phablet 4.0 W/kg (mW/g) averaged over 10 grams																						

Table 11-83
NR Band n41 Phablet SAR

MEASUREMENT RESULTS																						
FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Antenna Config	Power Drift [dB]	MPR [dB]	Serial Number	Waveform	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (10g)	Scaling Factor	Reported SAR (10g)	Plot #
MHz	Ch.																	(W/kg)		(W/kg)	
2592.99	518598	Mid	NR Band n41	100	19.0	18.26	B	0.01	0	0702M	DFT-S-OFDM	QPSK	1	1	8 mm	back	1:1	0.146	1.186	0.173	
2592.99	518598	Mid	NR Band n41	100	19.0	18.00	B	-0.07	0	0702M	DFT-S-OFDM	QPSK	135	69	8 mm	back	1:1	0.142	1.259	0.179	
2592.99	518598	Mid	NR Band n41	100	19.0	18.26	B	-0.10	0	0702M	DFT-S-OFDM	QPSK	1	1	6 mm	front	1:1	0.111	1.186	0.132	
2592.99	518598	Mid	NR Band n41	100	19.0	18.00	B	-0.02	0	0702M	DFT-S-OFDM	QPSK	135	69	6 mm	front	1:1	0.116	1.259	0.146	
2592.99	518598	Mid	NR Band n41	100	19.0	18.26	B	0.03	0	0702M	DFT-S-OFDM	QPSK	1	1	11 mm	bottom	1:1	0.067	1.186	0.079	
2592.99	518598	Mid	NR Band n41	100	19.0	18.00	B	0.07	0	0702M	DFT-S-OFDM	QPSK	135	69	11 mm	bottom	1:1	0.084	1.259	0.106	
2592.99	518598	Mid	NR Band n41	100	19.0	18.26	B	-0.05	0	0702M	DFT-S-OFDM	QPSK	1	1	0 mm	left	1:1	0.283	1.186	0.336	
2592.99	518598	Mid	NR Band n41	100	19.0	18.00	B	0.08	0	0702M	DFT-S-OFDM	QPSK	135	69	0 mm	left	1:1	0.305	1.259	0.384	
2592.99	518598	Mid	NR Band n41	100	15.0	14.63	B	-0.06	0	0702M	DFT-S-OFDM	QPSK	1	271	0 mm	back	1:1	0.350	1.089	0.381	
2592.99	518598	Mid	NR Band n41	100	15.0	14.62	B	-0.02	0	0702M	DFT-S-OFDM	QPSK	135	69	0 mm	back	1:1	0.332	1.091	0.362	
2592.99	518598	Mid	NR Band n41	100	15.0	14.63	B	-0.07	0	0702M	DFT-S-OFDM	QPSK	1	271	0 mm	front	1:1	0.279	1.089	0.304	
2592.99	518598	Mid	NR Band n41	100	15.0	14.62	B	-0.04	0	0702M	DFT-S-OFDM	QPSK	135	69	0 mm	front	1:1	0.255	1.091	0.278	
2592.99	518598	Mid	NR Band n41	100	15.0	14.63	B	-0.04	0	0702M	DFT-S-OFDM	QPSK	1	271	0 mm	bottom	1:1	0.354	1.089	0.386	A106
2592.99	518598	Mid	NR Band n41	100	15.0	14.62	B	-0.18	0	0702M	DFT-S-OFDM	QPSK	135	69	0 mm	bottom	1:1	0.348	1.091	0.380	
2592.99	518598	Mid	NR Band n41	100	15.0	14.60	B	0.02	0	0702M	CP-OFDM	QPSK	1	1	0 mm	bottom	1:1	0.347	1.096	0.380	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																						
Phablet 4.0 W/kg (mW/g) averaged over 10 grams																						

Table 11-84
NR Band n77 Phablet SAR

MEASUREMENT RESULTS																						
FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Antenna Config	Power Drift [dB]	MPR [dB]	Serial Number	Waveform	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	Scaling Factor	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.																		(W/kg)	(W/kg)	
3750.00	650000	Low	NR Band n77	100	20.5	19.91	I	-0.08	0	3987S	DFT-S-OFDM	QPSK	1	137	0 mm	right	1:1	1.146	2.190	2.510	
3930.00	662000	High	NR Band n77	100	20.5	20.50	I	-0.07	0	3987S	DFT-S-OFDM	QPSK	1	271	0 mm	right	1:1	1.000	2.180	2.180	
3750.00	650000	Low	NR Band n77	100	20.5	19.75	I	-0.02	0	3987S	DFT-S-OFDM	QPSK	135	69	0 mm	right	1:1	1.189	2.220	**2.640**	A107
3930.00	662000	High	NR Band n77	100	20.5	20.46	I	-0.02	0	3987S	DFT-S-OFDM	QPSK	135	69	0 mm	right	1:1	1.009	2.080	2.099	
3930.00	662000	High	NR Band n77	100	19.5	19.41	I	-0.01	1	3987S	DFT-S-OFDM	QPSK	270	0	0 mm	right	1:1	1.021	1.780	1.817	
3930.00	662000	High	NR Band n77	100	19.0	18.26	I	-0.05	1.5	3987S	CP-OFDM	QPSK	1	1	0 mm	right	1:1	1.186	1.490	1.767	
3750.00	650000	Low	NR Band n77	100	20.5	19.75	I	0.03	0	3987S	DFT-S-OFDM	QPSK	135	69	0 mm	right	1:1	1.189	2.150	2.556	
3930.00	662000	High	NR Band n77	100	20.5	20.50	I	0.11	0	3987S	DFT-S-OFDM	QPSK	1	271	0 mm	right	1:1	1.000	2.140	2.140	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population												Phablet 4.0 W/kg (mW/g) averaged over 10 grams									

Note: Blue entries represent variability measurements

Table 11-85
WLAN MIMO Phablet SAR

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Service	Bandwidth [MHz]	Maximum Allowed Power (Ant 1) [dBm]	Conducted Power (Ant 1) [dBm]	Maximum Allowed Power (Ant 2) [dBm]	Conducted Power (Ant 2) [dBm]	Power Drift [dB]	Spacing	Antenna Config.	Device Serial Number	Data Rate (Mbps)	Side	Duty Cycle (%)	Peak SAR of Area Scan	SAR (10g)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (10g)	Plot #
MHz	Ch.															W/kg	(W/kg)			(W/kg)	
5300	60	802.11n	OFDM	20	17.5	16.36	17.5	17.09	0.10	0 mm	MIMO	0774M	13	back	98.9	6.764	0.845	1.300	1.011	1.111	
5300	60	802.11n	OFDM	20	17.5	16.36	17.5	17.09	-0.09	0 mm	MIMO	0774M	13	front	98.9	7.551	0.773	1.300	1.011	1.016	
5300	60	802.11n	OFDM	20	17.5	16.36	17.5	17.09	-0.04	0 mm	MIMO	0774M	13	top	98.9	2.178	-	1.300	1.011	-	
5260	52	802.11n	OFDM	20	17.5	16.37	17.5	16.92	-0.07	0 mm	MIMO	0774M	13	left	98.9	26.116	1.550	1.297	1.011	2.032	
5300	60	802.11n	OFDM	20	17.5	16.36	17.5	17.09	0.03	0 mm	MIMO	0774M	13	left	98.9	28.041	1.580	1.300	1.011	2.077	
5320	64	802.11n	OFDM	20	17.5	16.31	17.5	17.11	0.04	0 mm	MIMO	0774M	13	left	98.9	34.310	1.650	1.315	1.011	**2.194**	A108
5500	100	802.11n	OFDM	20	17.5	16.68	17.5	17.19	0.15	0 mm	MIMO	0774M	13	back	98.9	8.700	0.846	1.208	1.011	1.033	
5500	100	802.11n	OFDM	20	17.5	16.68	17.5	17.19	0.09	0 mm	MIMO	0774M	13	front	98.9	2.558	0.235	1.208	1.011	0.287	
5500	100	802.11n	OFDM	20	17.5	16.68	17.5	17.19	0.10	0 mm	MIMO	0774M	13	top	98.9	1.286	-	1.208	1.011	-	
5500	100	802.11n	OFDM	20	17.5	16.68	17.5	17.19	-0.09	0 mm	MIMO	0774M	13	left	98.9	17.125	0.783	1.208	1.011	0.956	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population												Phablet 4.0 W/kg (mW/g) averaged over 10 grams									

Note: To achieve the 20.5 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 17.5 dBm.

Table 11-86
WLAN MIMO Phablet SAR during Conditions with 5G NR mmW

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Service	Bandwidth [MHz]	Maximum Allowed Power (Ant 1) [dBm]	Conducted Power (Ant 1) [dBm]	Maximum Allowed Power (Ant 2) [dBm]	Conducted Power (Ant 2) [dBm]	Power Drift [dB]	Spacing	Antenna Config.	Device Serial Number	Data Rate (Mbps)	Side	Duty Cycle (%)	Peak SAR of Area Scan	SAR (10g)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (10g)	Plot #
MHz	Ch.															W/kg	(W/kg)			(W/kg)	
5290	58	802.11ac	OFDM	80	14.0	13.19	14.0	13.65	0.09	0 mm	MIMO	0123M	58.5	back	91.3	2.252	0.194	1.205	1.095	0.256	
5290	58	802.11ac	OFDM	80	14.0	13.19	14.0	13.65	-0.09	0 mm	MIMO	0123M	58.5	front	91.3	0.865	0.140	1.205	1.095	0.185	
5290	58	802.11ac	OFDM	80	14.0	13.19	14.0	13.65	-0.05	0 mm	MIMO	0123M	58.5	top	91.3	0.417	-	1.205	1.095	-	
5290	58	802.11ac	OFDM	80	14.0	13.19	14.0	13.65	0.10	0 mm	MIMO	0123M	58.5	left	91.3	5.167	0.282	1.205	1.095	0.372	
5530	106	802.11ac	OFDM	80	14.0	13.25	14.0	13.89	0.09	0 mm	MIMO	0123M	58.5	back	91.3	3.193	0.264	1.189	1.095	0.344	
5530	106	802.11ac	OFDM	80	14.0	13.25	14.0	13.89	-0.10	0 mm	MIMO	0123M	58.5	front	91.3	0.595	0.061	1.189	1.095	0.079	
5530	106	802.11ac	OFDM	80	14.0	13.25	14.0	13.89	-0.07	0 mm	MIMO	0123M	58.5	top	91.3	0.254	-	1.189	1.095	-	
5530	106	802.11ac	OFDM	80	14.0	13.25	14.0	13.89	0.10	0 mm	MIMO	0123M	58.5	left	91.3	4.256	0.225	1.189	1.095	0.293	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population												Phablet 4.0 W/kg (mW/g) averaged over 10 grams									

Note: To achieve the 17.0 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 14.0 dBm.

11.5 SAR Test Notes

General Notes:

1. The test data reported are the worst-case SAR values according to test procedures specified in IEEE 1528-2013, and FCC KDB 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. Device was tested using a fixed spacing for body-worn accessory testing. A separation distance of 15 mm was considered because the manufacturer has determined that there will be body-worn accessories available in the marketplace for users to support this separation distance.
7. Per FCC KDB Publication 648474 D04v01r03, body-worn SAR was evaluated without a headset connected to the device. Since the standalone reported body-worn SAR was ≤ 1.2 W/kg, no additional body-worn SAR evaluations using a headset cable were required.
8. 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 13 for variability analysis.
9. During SAR Testing for the Wireless Router conditions per FCC KDB Publication 941225 D06v02r01, the actual Portable Hotspot operation (with actual simultaneous transmission of a transmitter with WIFI) was not activated (See Section 6.7 for more details).
10. Per FCC KDB Publication 648474 D04v01r03, this device is considered a "phablet" since the diagonal dimension is > 160 mm and < 200 mm. Therefore, phablet SAR tests are required when wireless router mode does not apply or if wireless router 1g SAR > 1.2 W/kg.
11. This device supports dynamic antenna tuning for some bands. Per FCC Guidance, SAR was measured according to the normally required SAR measurement configurations with tuner active. The auto-tune state determined by the device was verified before and after each SAR measurement and is listed in tables above. Please see Section 14 for supplemental data.
12. Additional SAR tests for phablet SAR were evaluated per KDB 616217 Section 6 (See Section 6.9 for more information).
13. Unless otherwise noted, when 10g SAR measurement is considered, a factor of 2.5 is applied to the 1g thresholds for the equivalent test cases.
14. This device uses Qualcomm Smart Transmit for 2G/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).

GSM Test Notes:

1. Body-Worn accessory testing is typically associated with voice operations. Therefore, GSM voice was evaluated for body-worn SAR.
2. Justification for reduced test configurations per KDB Publication 941225 D01v03r01 and October 2013 TCB Workshop Notes: The source-based frame-averaged output power was evaluated for all GPRS/EDGE slot configurations. The configuration with the highest target frame averaged output power was evaluated for hotspot SAR. When the maximum frame-averaged powers are equivalent across two or more slots (within 0.25 dB), the configuration with the most number of time slots was tested.
3. Per FCC KDB Publication 447498 D01v06, if the reported (scaled) SAR measured at the middle channel or 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). When the maximum output power variation across the required test channels is > ½ dB, instead of the middle channel, the highest output power channel was used.

CDMA Notes:

1. Head SAR for CDMA2000 mode was tested under RC3/SO55 per FCC KDB Publication 941225 D01v03r01.
2. Body-Worn SAR was tested with 1x RTT with TDSO / SO32 FCH Only. EVDO Rev0 and RevA and TDSO / SO32 FCH+SCH SAR tests were not required per the 3G SAR Test Reduction Procedure in FCC KDB Publication 941225 D01v03r01.
3. CDMA Wireless Router SAR is measured using Subtype 0/1 Physical Layer configurations for Rev. 0 according to KDB 941225 D01v03r01 procedures for data devices. Wireless Router SAR tests for Subtype 2 of Rev.A and 1x RTT configurations were not required per the 3G SAR Test Reduction Policy in KDB Publication 941225 D01v03r01.
4. Head SAR was additionally evaluated using EVDO Rev. A to determine compliance for VoIP operations.
5. Per FCC KDB Publication 447498 D01v06, if the reported (scaled) SAR measured at the middle channel or 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). When the maximum output power variation across the required test channels is > ½ dB, instead of the middle channel, the highest output power channel was used.
6. CDMA 1X Advanced technology was not required for SAR since the maximum allowed output powers for 1X Advanced was not more than 0.25 dB higher than the maximum powers for 1X.

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 middle channel or 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). When the maximum output power variation across the required test channels is > ½ dB, instead of the middle channel, the highest output power channel was used.

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 8.6.4.
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 1g SAR measured at the highest output power channel in a given a test configuration was > 0.6 W/kg for LTE B41/48, and > 0.4 for NR n77, 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 14 for linearity results.

8. For LTE Band 5, LTE Band 66, LTE Band 48, and LTE Band 41, 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.

NR Notes:

1. 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.
2. Due to test setup limitations, SAR testing for NR was performed using test mode software to establish the connection.
3. Simultaneous transmission analysis for EN-DC operations is addressed in the Part 2 Test Report (Serial Number can be found in the bibliography).
4. This device additionally supports some EN-DC conditions where additional LTE carriers are added on the downlink only.
5. Per FCC Guidance, the device was configured with the tuner state selected by the device in LTE mode with auto-tune active at the same frequency as the NR test results. Additional tuner states were evaluated per April 2019 TCBC Workshop Guidance. Please see Section 14 for supplemental data.
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.

WLAN Notes:

1. For held-to-ear, and hotspot, and phablet operations, the initial test position procedures were applied. The test position with the highest extrapolated peak SAR will be used as the initial test position. When reported SAR for the initial test position is ≤ 0.4 W/kg for 1g evaluations, no additional testing for the remaining test positions was required. Otherwise, SAR is evaluated at the subsequent highest peak SAR positions until the reported SAR result is ≤ 0.8 W/kg or all test positions are measured.
2. 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 8.7.5 for more information.
3. Justification for test configurations for WLAN per KDB Publication 248227 D01v02r02 for 5 GHz WIFI 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 8.7.6 for more information.
4. 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 12 for complete analysis.
5. 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.
6. 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.

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

Bluetooth Notes

1. Bluetooth SAR was measured with the device connected to a call box with hopping disabled with DH5 operation and Tx Tests test mode type. Per October 2016 TCB Workshop Notes, the reported SAR was scaled to the 100% transmission duty factor to determine compliance. See Section 0 for the time domain plot and calculation for the duty factor of the device.
2. Head and Hotspot Bluetooth SAR were evaluated for BT BR tethering applications.

12 FCC MULTI-TX AND ANTENNA SAR CONSIDERATIONS

12.1 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.

12.2 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.

Per FCC KDB Publication 941225 D06v02r01, the devices edges with antennas more than 2.5 cm from edge are not required to be evaluated for SAR ("-").

(*) For test positions that were not required to be evaluated for WLAN SAR per FCC KDB publication 248227, the worst case WLAN SAR result for the applicable exposure conditions was used for simultaneous transmission analysis.

Qualcomm Smart Transmit algorithm in WWAN adds directly the time-averaged RF exposure from 4G and time-averaged RF exposure from 5G NR. Smart Transmit algorithm controls the total RF exposure from both 4G and 5G NR to not exceed FCC limit. Therefore, simultaneous transmission compliance between 4G+5G operations is demonstrated in the Qualcomm Part 2 Report during algorithm validation.

Please refer to WIFI6E RF Exposure Report for 6 GHz WLAN standalone reported SAR results (report SN could be found in Section 1.11 - Bibliography).

12.3 Head SAR Simultaneous Transmission Analysis

Table 12-1
Simultaneous Transmission Scenario with 2.4 GHz WLAN (Held to Ear)

Configuration	Mode	2G/3G/4G/5G SAR (W/kg)	2.4 GHz WLAN Ant 1 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	2.4 GHz WLAN MIMO at 19 dBm SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	4	1+2	1+3	1+4
Head SAR	CDMA/EVDO BC10 (§90S)	0.232	0.127	0.307	0.400	0.359	0.539	0.632
	CDMA/EVDO BC0 (§22H)	0.244	0.127	0.307	0.400	0.371	0.551	0.644
	PCS CDMA/EVDO	0.093	0.127	0.307	0.400	0.220	0.400	0.493
	GSM 850	0.117	0.127	0.307	0.400	0.244	0.424	0.517
	GSM 1900	0.035	0.127	0.307	0.400	0.162	0.342	0.435
	UMTS 850	0.209	0.127	0.307	0.400	0.336	0.516	0.609
	UMTS 1750	0.142	0.127	0.307	0.400	0.269	0.449	0.542
	UMTS 1900	0.096	0.127	0.307	0.400	0.223	0.403	0.496
	LTE Band 71	0.150	0.127	0.307	0.400	0.277	0.457	0.550
	LTE Band 12	0.169	0.127	0.307	0.400	0.296	0.476	0.569
	LTE Band 13	0.195	0.127	0.307	0.400	0.322	0.502	0.595
	LTE Band 14	0.188	0.127	0.307	0.400	0.315	0.495	0.588
	LTE Band 26 (Cell)	0.195	0.127	0.307	0.400	0.322	0.502	0.595
	LTE Band 5 (Cell)	0.221	0.127	0.307	0.400	0.348	0.528	0.621
	LTE Band 66 (AWS)	0.161	0.127	0.307	0.400	0.288	0.468	0.561
	LTE Band 25 (PCS)	0.177	0.127	0.307	0.400	0.304	0.484	0.577
	LTE Band 30	0.044	0.127	0.307	0.400	0.171	0.351	0.444
	LTE Band 7	0.108	0.127	0.307	0.400	0.235	0.415	0.508
	LTE Band 48	0.489	0.127	0.307	0.400	0.616	0.796	0.889
	LTE Band 41	0.072	0.127	0.307	0.400	0.199	0.379	0.472
	NR Band n71	0.155	0.127	0.307	0.400	0.282	0.462	0.555
	NR Band n12	0.162	0.127	0.307	0.400	0.289	0.469	0.562
	NR Band n5 (Cell)	0.234	0.127	0.307	0.400	0.361	0.541	0.634
	NR Band n66 (AWS) Antenna A	0.159	0.127	0.307	0.400	0.286	0.466	0.559
	NR Band n66 (AWS) Antenna E	0.770	0.127	0.307	0.400	0.897	1.077	**1.170**
	NR Band n25 (PCS) Antenna A	0.126	0.127	0.307	0.400	0.253	0.433	0.526
	NR Band n25 (PCS) Antenna E	0.494	0.127	0.307	0.400	0.621	0.801	0.894
	NR Band n30	0.064	0.127	0.307	0.400	0.191	0.371	0.464
	NR Band n41 Antenna B	0.024	0.127	0.307	0.400	0.151	0.331	0.424
	NR Band n41 Antenna E	0.414	0.127	0.307	0.400	0.541	0.721	0.814
	NR Band n77	0.337	0.127	0.307	0.400	0.464	0.644	0.737

Table 12-2
Simultaneous Transmission Scenario with 5 GHz WLAN (Held to Ear)

Configuration	Mode	2G/3G/4G/5G SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2
Head SAR	CDMA/EVDO BC10 (§90S)	0.232	0.146	0.378
	CDMA/EVDO BC0 (§22H)	0.244	0.146	0.390
	PCS CDMA/EVDO	0.093	0.146	0.239
	GSM 850	0.117	0.146	0.263
	GSM 1900	0.035	0.146	0.181
	UMTS 850	0.209	0.146	0.355
	UMTS 1750	0.142	0.146	0.288
	UMTS 1900	0.096	0.146	0.242
	LTE Band 71	0.150	0.146	0.296
	LTE Band 12	0.169	0.146	0.315
	LTE Band 13	0.195	0.146	0.341
	LTE Band 14	0.188	0.146	0.334
	LTE Band 26 (Cell)	0.195	0.146	0.341
	LTE Band 5 (Cell)	0.221	0.146	0.367
	LTE Band 66 (AWS)	0.161	0.146	0.307
	LTE Band 25 (PCS)	0.177	0.146	0.323
	LTE Band 30	0.044	0.146	0.190
	LTE Band 7	0.108	0.146	0.254
	LTE Band 48	0.489	0.146	0.635
	LTE Band 41	0.072	0.146	0.218
	NR Band n71	0.155	0.146	0.301
	NR Band n12	0.162	0.146	0.308
	NR Band n5 (Cell)	0.234	0.146	0.380
	NR Band n66 (AWS) Antenna A	0.159	0.146	0.305
	NR Band n66 (AWS) Antenna E	0.770	0.146	**0.916**
	NR Band n25 (PCS) Antenna A	0.126	0.146	0.272
	NR Band n25 (PCS) Antenna E	0.494	0.146	0.640
	NR Band n30	0.064	0.146	0.210
	NR Band n41 Antenna B	0.024	0.146	0.170
	NR Band n41 Antenna E	0.414	0.146	0.560
	NR Band n77	0.337	0.146	0.483

Table 12-3
Simultaneous Transmission Scenario with 6 GHz WLAN (Held to Ear)

Configuration	Mode	2G/3G/4G/5G SAR (W/kg)	6 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2
Head SAR	CDMA/EVDO BC10 (§90S)	0.232	0.023	0.255
	CDMA/EVDO BC0 (§22H)	0.244	0.023	0.267
	PCS CDMA/EVDO	0.093	0.023	0.116
	GSM 850	0.117	0.023	0.140
	GSM 1900	0.035	0.023	0.058
	UMTS 850	0.209	0.023	0.232
	UMTS 1750	0.142	0.023	0.165
	UMTS 1900	0.096	0.023	0.119
	LTE Band 71	0.150	0.023	0.173
	LTE Band 12	0.169	0.023	0.192
	LTE Band 13	0.195	0.023	0.218
	LTE Band 14	0.188	0.023	0.211
	LTE Band 26 (Cell)	0.195	0.023	0.218
	LTE Band 5 (Cell)	0.221	0.023	0.244
	LTE Band 66 (AWS)	0.161	0.023	0.184
	LTE Band 25 (PCS)	0.177	0.023	0.200
	LTE Band 30	0.044	0.023	0.067
	LTE Band 7	0.108	0.023	0.131
	LTE Band 48	0.489	0.023	0.512
	LTE Band 41	0.072	0.023	0.095
	NR Band n71	0.155	0.023	0.178
	NR Band n12	0.162	0.023	0.185
	NR Band n5 (Cell)	0.234	0.023	0.257
	NR Band n66 (AWS) Antenna A	0.159	0.023	0.182
	NR Band n66 (AWS) Antenna E	0.770	0.023	**0.793**
	NR Band n25 (PCS) Antenna A	0.126	0.023	0.149
	NR Band n25 (PCS) Antenna E	0.494	0.023	0.517
	NR Band n30	0.064	0.023	0.087
	NR Band n41 Antenna B	0.024	0.023	0.047
	NR Band n41 Antenna E	0.414	0.023	0.437
	NR Band n77	0.337	0.023	0.360

Table 12-4
Simultaneous Transmission Scenario with 2.4 GHz WLAN and 5 GHz WLAN MIMO (Held to Ear)

Configuration	Mode	2G/3G/4G/5G SAR (W/kg)	2.4 GHz WLAN Ant 1 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	2.4 GHz WLAN MIMO at 16 dBm SAR (W/kg)	5 GHz WLAN MIMO at 16 dBm SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	4	5	1+2+5	1+3+5	1+4+5
Head SAR	CDMA/EVDO BC10 (§90S)	0.232	0.127	0.307	0.166	0.146	0.505	0.685	0.544
	CDMA/EVDO BC0 (§22H)	0.244	0.127	0.307	0.166	0.146	0.517	0.697	0.556
	PCS CDMA/EVDO	0.093	0.127	0.307	0.166	0.146	0.366	0.546	0.405
	GSM 850	0.117	0.127	0.307	0.166	0.146	0.390	0.570	0.429
	GSM 1900	0.035	0.127	0.307	0.166	0.146	0.308	0.488	0.347
	UMTS 850	0.209	0.127	0.307	0.166	0.146	0.482	0.662	0.521
	UMTS 1750	0.142	0.127	0.307	0.166	0.146	0.415	0.595	0.454
	UMTS 1900	0.096	0.127	0.307	0.166	0.146	0.369	0.549	0.408
	LTE Band 71	0.150	0.127	0.307	0.166	0.146	0.423	0.603	0.462
	LTE Band 12	0.169	0.127	0.307	0.166	0.146	0.442	0.622	0.481
	LTE Band 13	0.195	0.127	0.307	0.166	0.146	0.468	0.648	0.507
	LTE Band 14	0.188	0.127	0.307	0.166	0.146	0.461	0.641	0.500
	LTE Band 26 (Cell)	0.195	0.127	0.307	0.166	0.146	0.468	0.648	0.507
	LTE Band 5 (Cell)	0.221	0.127	0.307	0.166	0.146	0.494	0.674	0.533
	LTE Band 66 (AWS)	0.161	0.127	0.307	0.166	0.146	0.434	0.614	0.473
	LTE Band 25 (PCS)	0.177	0.127	0.307	0.166	0.146	0.450	0.630	0.489
	LTE Band 30	0.044	0.127	0.307	0.166	0.146	0.317	0.497	0.356
	LTE Band 7	0.108	0.127	0.307	0.166	0.146	0.381	0.561	0.420
	LTE Band 48	0.489	0.127	0.307	0.166	0.146	0.762	0.942	0.801
	LTE Band 41	0.072	0.127	0.307	0.166	0.146	0.345	0.525	0.384
	NR Band n71	0.155	0.127	0.307	0.166	0.146	0.428	0.608	0.467
	NR Band n12	0.162	0.127	0.307	0.166	0.146	0.435	0.615	0.474
	NR Band n5 (Cell)	0.234	0.127	0.307	0.166	0.146	0.507	0.687	0.546
	NR Band n66 (AWS) Antenna A	0.159	0.127	0.307	0.166	0.146	0.432	0.612	0.471
	NR Band n66 (AWS) Antenna E	0.770	0.127	0.307	0.166	0.146	1.043	**1.223**	1.082
	NR Band n25 (PCS) Antenna A	0.126	0.127	0.307	0.166	0.146	0.399	0.579	0.438
	NR Band n25 (PCS) Antenna E	0.494	0.127	0.307	0.166	0.146	0.767	0.947	0.806
	NR Band n30	0.064	0.127	0.307	0.166	0.146	0.337	0.517	0.376
	NR Band n41 Antenna B	0.024	0.127	0.307	0.166	0.146	0.297	0.477	0.336
	NR Band n41 Antenna E	0.414	0.127	0.307	0.166	0.146	0.687	0.867	0.726
	NR Band n77	0.337	0.127	0.307	0.166	0.146	0.610	0.790	0.649

Table 12-5
Simultaneous Transmission Scenario with 2.4 GHz WLAN and 6 GHz WLAN MIMO (Held to Ear)

Configuration	Mode	2G/3G/4G/5G SAR (W/kg)	2.4 GHz WLAN Ant 1 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	2.4 GHz WLAN MIMO at 16 dBm SAR (W/kg)	6 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	4	5	1+2+5	1+3+5	1+4+5
Head SAR	CDMA/EVDO BC10 (§90S)	0.232	0.127	0.307	0.166	0.023	0.382	0.562	0.421
	CDMA/EVDO BC0 (§22H)	0.244	0.127	0.307	0.166	0.023	0.394	0.574	0.433
	PCS CDMA/EVDO	0.093	0.127	0.307	0.166	0.023	0.243	0.423	0.282
	GSM 850	0.117	0.127	0.307	0.166	0.023	0.267	0.447	0.306
	GSM 1900	0.035	0.127	0.307	0.166	0.023	0.185	0.365	0.224
	UMTS 850	0.209	0.127	0.307	0.166	0.023	0.359	0.539	0.398
	UMTS 1750	0.142	0.127	0.307	0.166	0.023	0.292	0.472	0.331
	UMTS 1900	0.096	0.127	0.307	0.166	0.023	0.246	0.426	0.285
	LTE Band 71	0.150	0.127	0.307	0.166	0.023	0.300	0.480	0.339
	LTE Band 12	0.169	0.127	0.307	0.166	0.023	0.319	0.499	0.358
	LTE Band 13	0.195	0.127	0.307	0.166	0.023	0.345	0.525	0.384
	LTE Band 14	0.188	0.127	0.307	0.166	0.023	0.338	0.518	0.377
	LTE Band 26 (Cell)	0.195	0.127	0.307	0.166	0.023	0.345	0.525	0.384
	LTE Band 5 (Cell)	0.221	0.127	0.307	0.166	0.023	0.371	0.551	0.410
	LTE Band 66 (AWS)	0.161	0.127	0.307	0.166	0.023	0.311	0.491	0.350
	LTE Band 25 (PCS)	0.177	0.127	0.307	0.166	0.023	0.327	0.507	0.366
	LTE Band 30	0.044	0.127	0.307	0.166	0.023	0.194	0.374	0.233
	LTE Band 7	0.108	0.127	0.307	0.166	0.023	0.258	0.438	0.297
	LTE Band 48	0.489	0.127	0.307	0.166	0.023	0.639	0.819	0.678
	LTE Band 41	0.072	0.127	0.307	0.166	0.023	0.222	0.402	0.261
	NR Band n71	0.155	0.127	0.307	0.166	0.023	0.305	0.485	0.344
	NR Band n12	0.162	0.127	0.307	0.166	0.023	0.312	0.492	0.351
	NR Band n5 (Cell)	0.234	0.127	0.307	0.166	0.023	0.384	0.564	0.423
	NR Band n66 (AWS) Antenna A	0.159	0.127	0.307	0.166	0.023	0.309	0.489	0.348
	NR Band n66 (AWS) Antenna E	0.770	0.127	0.307	0.166	0.023	0.920	**1.100**	0.959
	NR Band n25 (PCS) Antenna A	0.126	0.127	0.307	0.166	0.023	0.276	0.456	0.315
	NR Band n25 (PCS) Antenna E	0.494	0.127	0.307	0.166	0.023	0.644	0.824	0.683
	NR Band n30	0.064	0.127	0.307	0.166	0.023	0.214	0.394	0.253
	NR Band n41 Antenna B	0.024	0.127	0.307	0.166	0.023	0.174	0.354	0.213
	NR Band n41 Antenna E	0.414	0.127	0.307	0.166	0.023	0.564	0.744	0.603
	NR Band n77	0.337	0.127	0.307	0.166	0.023	0.487	0.667	0.526

Table 12-6
Simultaneous Transmission Scenario with Bluetooth (Held to Ear)

Configuration	Mode	2G/3G/4G/5G SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	2.4 GHz Bluetooth Ant 2 SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	1+2	1+3	1+2+3
Head SAR	CDMA/EVDO BC10 (§90S)	0.232	0.027	0.142	0.259	0.374	0.401
	CDMA/EVDO BC0 (§22H)	0.244	0.027	0.142	0.271	0.386	0.413
	PCS CDMA/EVDO	0.093	0.027	0.142	0.120	0.235	0.262
	GSM 850	0.117	0.027	0.142	0.144	0.259	0.286
	GSM 1900	0.035	0.027	0.142	0.062	0.177	0.204
	UMTS 850	0.209	0.027	0.142	0.236	0.351	0.378
	UMTS 1750	0.142	0.027	0.142	0.169	0.284	0.311
	UMTS 1900	0.096	0.027	0.142	0.123	0.238	0.265
	LTE Band 71	0.150	0.027	0.142	0.177	0.292	0.319
	LTE Band 12	0.169	0.027	0.142	0.196	0.311	0.338
	LTE Band 13	0.195	0.027	0.142	0.222	0.337	0.364
	LTE Band 14	0.188	0.027	0.142	0.215	0.330	0.357
	LTE Band 26 (Cell)	0.195	0.027	0.142	0.222	0.337	0.364
	LTE Band 5 (Cell)	0.221	0.027	0.142	0.248	0.363	0.390
	LTE Band 66 (AWS)	0.161	0.027	0.142	0.188	0.303	0.330
	LTE Band 25 (PCS)	0.177	0.027	0.142	0.204	0.319	0.346
	LTE Band 30	0.044	0.027	0.142	0.071	0.186	0.213
	LTE Band 7	0.108	0.027	0.142	0.135	0.250	0.277
	LTE Band 48	0.489	0.027	0.142	0.516	0.631	0.658
	LTE Band 41	0.072	0.027	0.142	0.099	0.214	0.241
	NR Band n71	0.155	0.027	0.142	0.182	0.297	0.324
	NR Band n12	0.162	0.027	0.142	0.189	0.304	0.331
	NR Band n5 (Cell)	0.234	0.027	0.142	0.261	0.376	0.403
	NR Band n66 (AWS) Antenna A	0.159	0.027	0.142	0.186	0.301	0.328
	NR Band n66 (AWS) Antenna E	0.770	0.027	0.142	0.797	0.912	**0.939**
	NR Band n25 (PCS) Antenna A	0.126	0.027	0.142	0.153	0.268	0.295
	NR Band n25 (PCS) Antenna E	0.494	0.027	0.142	0.521	0.636	0.663
	NR Band n30	0.064	0.027	0.142	0.091	0.206	0.233
	NR Band n41 Antenna B	0.024	0.027	0.142	0.051	0.166	0.193
	NR Band n41 Antenna E	0.414	0.027	0.142	0.441	0.556	0.583
	NR Band n77	0.337	0.027	0.142	0.364	0.479	0.506

Table 12-7
Simultaneous Transmission Scenario with Bluetooth and 5 GHz WLAN (Held to Ear)

Configuration	Mode	2G/3G/4G/5G SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	2.4 GHz Bluetooth Ant 2 SAR (W/kg)	5 GHz WLAN MIMO at 16 dBm SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	4	1+2+4	1+3+4	1+2+3+4
Head SAR	CDMA/EVDO BC10 (§90S)	0.232	0.027	0.142	0.146	0.405	0.520	0.547
	CDMA/EVDO BC0 (§22H)	0.244	0.027	0.142	0.146	0.417	0.532	0.559
	PCS CDMA/EVDO	0.093	0.027	0.142	0.146	0.266	0.381	0.408
	GSM 850	0.117	0.027	0.142	0.146	0.290	0.405	0.432
	GSM 1900	0.035	0.027	0.142	0.146	0.208	0.323	0.350
	UMTS 850	0.209	0.027	0.142	0.146	0.382	0.497	0.524
	UMTS 1750	0.142	0.027	0.142	0.146	0.315	0.430	0.457
	UMTS 1900	0.096	0.027	0.142	0.146	0.269	0.384	0.411
	LTE Band 71	0.150	0.027	0.142	0.146	0.323	0.438	0.465
	LTE Band 12	0.169	0.027	0.142	0.146	0.342	0.457	0.484
	LTE Band 13	0.195	0.027	0.142	0.146	0.368	0.483	0.510
	LTE Band 14	0.188	0.027	0.142	0.146	0.361	0.476	0.503
	LTE Band 26 (Cell)	0.195	0.027	0.142	0.146	0.368	0.483	0.510
	LTE Band 5 (Cell)	0.221	0.027	0.142	0.146	0.394	0.509	0.536
	LTE Band 66 (AWS)	0.161	0.027	0.142	0.146	0.334	0.449	0.476
	LTE Band 25 (PCS)	0.177	0.027	0.142	0.146	0.350	0.465	0.492
	LTE Band 30	0.044	0.027	0.142	0.146	0.217	0.332	0.359
	LTE Band 7	0.108	0.027	0.142	0.146	0.281	0.396	0.423
	LTE Band 48	0.489	0.027	0.142	0.146	0.662	0.777	0.804
	LTE Band 41	0.072	0.027	0.142	0.146	0.245	0.360	0.387
	NR Band n71	0.155	0.027	0.142	0.146	0.328	0.443	0.470
	NR Band n12	0.162	0.027	0.142	0.146	0.335	0.450	0.477
	NR Band n5 (Cell)	0.234	0.027	0.142	0.146	0.407	0.522	0.549
	NR Band n66 (AWS) Antenna A	0.159	0.027	0.142	0.146	0.332	0.447	0.474
	NR Band n66 (AWS) Antenna E	0.770	0.027	0.142	0.146	0.943	1.058	**1.085**
	NR Band n25 (PCS) Antenna A	0.126	0.027	0.142	0.146	0.299	0.414	0.441
	NR Band n25 (PCS) Antenna E	0.494	0.027	0.142	0.146	0.667	0.782	0.809
	NR Band n30	0.064	0.027	0.142	0.146	0.237	0.352	0.379
	NR Band n41 Antenna B	0.024	0.027	0.142	0.146	0.197	0.312	0.339
	NR Band n41 Antenna E	0.414	0.027	0.142	0.146	0.587	0.702	0.729
	NR Band n77	0.337	0.027	0.142	0.146	0.510	0.625	0.652

Table 12-8
Simultaneous Transmission Scenario with Bluetooth and 6 GHz WLAN (Held to Ear)

Configuration	Mode	2G/3G/4G/5G SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	2.4 GHz Bluetooth Ant 2 SAR (W/kg)	6 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	4	1+2+4	1+3+4	1+2+3+4
Head SAR	CDMA/EVDO BC10 (§90S)	0.232	0.027	0.142	0.023	0.282	0.397	0.424
	CDMA/EVDO BC0 (§22H)	0.244	0.027	0.142	0.023	0.294	0.409	0.436
	PCS CDMA/EVDO	0.093	0.027	0.142	0.023	0.143	0.258	0.285
	GSM 850	0.117	0.027	0.142	0.023	0.167	0.282	0.309
	GSM 1900	0.035	0.027	0.142	0.023	0.085	0.200	0.227
	UMTS 850	0.209	0.027	0.142	0.023	0.259	0.374	0.401
	UMTS 1750	0.142	0.027	0.142	0.023	0.192	0.307	0.334
	UMTS 1900	0.096	0.027	0.142	0.023	0.146	0.261	0.288
	LTE Band 71	0.150	0.027	0.142	0.023	0.200	0.315	0.342
	LTE Band 12	0.169	0.027	0.142	0.023	0.219	0.334	0.361
	LTE Band 13	0.195	0.027	0.142	0.023	0.245	0.360	0.387
	LTE Band 14	0.188	0.027	0.142	0.023	0.238	0.353	0.380
	LTE Band 26 (Cell)	0.195	0.027	0.142	0.023	0.245	0.360	0.387
	LTE Band 5 (Cell)	0.221	0.027	0.142	0.023	0.271	0.386	0.413
	LTE Band 66 (AWS)	0.161	0.027	0.142	0.023	0.211	0.326	0.353
	LTE Band 25 (PCS)	0.177	0.027	0.142	0.023	0.227	0.342	0.369
	LTE Band 30	0.044	0.027	0.142	0.023	0.094	0.209	0.236
	LTE Band 7	0.108	0.027	0.142	0.023	0.158	0.273	0.300
	LTE Band 48	0.489	0.027	0.142	0.023	0.539	0.654	0.681
	LTE Band 41	0.072	0.027	0.142	0.023	0.122	0.237	0.264
	NR Band n71	0.155	0.027	0.142	0.023	0.205	0.320	0.347
	NR Band n12	0.162	0.027	0.142	0.023	0.212	0.327	0.354
	NR Band n5 (Cell)	0.234	0.027	0.142	0.023	0.284	0.399	0.426
	NR Band n66 (AWS) Antenna A	0.159	0.027	0.142	0.023	0.209	0.324	0.351
	NR Band n66 (AWS) Antenna E	0.770	0.027	0.142	0.023	0.820	0.935	**0.962**
	NR Band n25 (PCS) Antenna A	0.126	0.027	0.142	0.023	0.176	0.291	0.318
	NR Band n25 (PCS) Antenna E	0.494	0.027	0.142	0.023	0.544	0.659	0.686
	NR Band n30	0.064	0.027	0.142	0.023	0.114	0.229	0.256
	NR Band n41 Antenna B	0.024	0.027	0.142	0.023	0.074	0.189	0.216
	NR Band n41 Antenna E	0.414	0.027	0.142	0.023	0.464	0.579	0.606
	NR Band n77	0.337	0.027	0.142	0.023	0.387	0.502	0.529

12.4 Body-Worn Simultaneous Transmission Analysis

Table 12-9
Simultaneous Transmission Scenario with 2.4 GHz WLAN (Body-Worn at 1.5 cm)

Mode	2G/3G/4G/5G SAR (W/kg)	2.4 GHz WLAN Ant 1 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)		
	1	2	3	1+2	1+3	1+2+3
CDMA BC10 (§90S)	0.326	0.209	0.134	0.535	0.460	0.669
CDMA BC0 (§22H)	0.342	0.209	0.134	0.551	0.476	0.685
PCS CDMA	0.483	0.209	0.134	0.692	0.617	0.826
GSM 850	0.178	0.209	0.134	0.387	0.312	0.521
GSM 1900	0.281	0.209	0.134	0.490	0.415	0.624
UMTS 850	0.290	0.209	0.134	0.499	0.424	0.633
UMTS 1750	0.718	0.209	0.134	0.927	0.852	1.061
UMTS 1900	0.498	0.209	0.134	0.707	0.632	0.841
LTE Band 71	0.241	0.209	0.134	0.450	0.375	0.584
LTE Band 12	0.238	0.209	0.134	0.447	0.372	0.581
LTE Band 13	0.251	0.209	0.134	0.460	0.385	0.594
LTE Band 14	0.283	0.209	0.134	0.492	0.417	0.626
LTE Band 26 (Cell)	0.268	0.209	0.134	0.477	0.402	0.611
LTE Band 5 (Cell)	0.330	0.209	0.134	0.539	0.464	0.673
LTE Band 66 (AWS)	0.837	0.209	0.134	1.046	0.971	1.180
LTE Band 25 (PCS)	0.761	0.209	0.134	0.970	0.895	1.104
LTE Band 30	0.473	0.209	0.134	0.682	0.607	0.816
LTE Band 7	0.341	0.209	0.134	0.550	0.475	0.684
LTE Band 48	0.203	0.209	0.134	0.412	0.337	0.546
LTE Band 41	0.493	0.209	0.134	0.702	0.627	0.836
NR Band n71	0.263	0.209	0.134	0.472	0.397	0.606
NR Band n12	0.276	0.209	0.134	0.485	0.410	0.619
NR Band n5 (Cell)	0.329	0.209	0.134	0.538	0.463	0.672
NR Band n66 (AWS) Antenna A	1.016	0.209	0.134	1.225	1.150	**1.359**
NR Band n66 (AWS) Antenna E	0.100	0.209	0.134	0.309	0.234	0.443
NR Band n25 (PCS) Antenna A	0.528	0.209	0.134	0.737	0.662	0.871
NR Band n25 (PCS) Antenna E	0.101	0.209	0.134	0.310	0.235	0.444
NR Band n30	0.727	0.209	0.134	0.936	0.861	1.070
NR Band n41 Antenna B	0.128	0.209	0.134	0.337	0.262	0.471
NR Band n41 Antenna E	0.105	0.209	0.134	0.314	0.239	0.448
NR Band n77	0.176	0.209	0.134	0.385	0.310	0.519

Table 12-10
Simultaneous Transmission Scenario with 5 GHz WLAN (Body-Worn at 1.5 cm)

Configuration	Mode	2G/3G/4G/5G SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2
Body - Worn SAR	CDMA BC10 (§90S)	0.326	0.472	0.798
	CDMA BC0 (§22H)	0.342	0.472	0.814
	PCS CDMA	0.483	0.472	0.955
	GSM 850	0.178	0.472	0.650
	GSM 1900	0.281	0.472	0.753
	UMTS 850	0.290	0.472	0.762
	UMTS 1750	0.718	0.472	1.190
	UMTS 1900	0.498	0.472	0.970
	LTE Band 71	0.241	0.472	0.713
	LTE Band 12	0.238	0.472	0.710
	LTE Band 13	0.251	0.472	0.723
	LTE Band 14	0.283	0.472	0.755
	LTE Band 26 (Cell)	0.268	0.472	0.740
	LTE Band 5 (Cell)	0.330	0.472	0.802
	LTE Band 66 (AWS)	0.837	0.472	1.309
	LTE Band 25 (PCS)	0.761	0.472	1.233
	LTE Band 30	0.473	0.472	0.945
	LTE Band 7	0.341	0.472	0.813
	LTE Band 48	0.203	0.472	0.675
	LTE Band 41	0.493	0.472	0.965
	NR Band n71	0.263	0.472	0.735
	NR Band n12	0.276	0.472	0.748
	NR Band n5 (Cell)	0.329	0.472	0.801
	NR Band n66 (AWS) Antenna A	1.016	0.472	**1.488**
	NR Band n66 (AWS) Antenna E	0.100	0.472	0.572
	NR Band n25 (PCS) Antenna A	0.528	0.472	1.000
	NR Band n25 (PCS) Antenna E	0.101	0.472	0.573
	NR Band n30	0.727	0.472	1.199
	NR Band n41 Antenna B	0.128	0.472	0.600
	NR Band n41 Antenna E	0.105	0.472	0.577
	NR Band n77	0.176	0.472	0.648

Table 12-11
Simultaneous Transmission Scenario with 6 GHz WLAN (Body-Worn at 1.5 cm)

Configuration	Mode	2G/3G/4G/5G SAR (W/kg)	6 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2
Body - Worn SAR	CDMA BC10 (§90S)	0.326	0.061	0.387
	CDMA BC0 (§22H)	0.342	0.061	0.403
	PCS CDMA	0.483	0.061	0.544
	GSM 850	0.178	0.061	0.239
	GSM 1900	0.281	0.061	0.342
	UMTS 850	0.290	0.061	0.351
	UMTS 1750	0.718	0.061	0.779
	UMTS 1900	0.498	0.061	0.559
	LTE Band 71	0.241	0.061	0.302
	LTE Band 12	0.238	0.061	0.299
	LTE Band 13	0.251	0.061	0.312
	LTE Band 14	0.283	0.061	0.344
	LTE Band 26 (Cell)	0.268	0.061	0.329
	LTE Band 5 (Cell)	0.330	0.061	0.391
	LTE Band 66 (AWS)	0.837	0.061	0.898
	LTE Band 25 (PCS)	0.761	0.061	0.822
	LTE Band 30	0.473	0.061	0.534
	LTE Band 7	0.341	0.061	0.402
	LTE Band 48	0.203	0.061	0.264
	LTE Band 41	0.493	0.061	0.554
	NR Band n71	0.263	0.061	0.324
	NR Band n12	0.276	0.061	0.337
	NR Band n5 (Cell)	0.329	0.061	0.390
	NR Band n66 (AWS) Antenna A	1.016	0.061	**1.077**
	NR Band n66 (AWS) Antenna E	0.100	0.061	0.161
	NR Band n25 (PCS) Antenna A	0.528	0.061	0.589
	NR Band n25 (PCS) Antenna E	0.101	0.061	0.162
	NR Band n30	0.727	0.061	0.788
	NR Band n41 Antenna B	0.128	0.061	0.189
	NR Band n41 Antenna E	0.105	0.061	0.166
	NR Band n77	0.176	0.061	0.237

Table 12-12
Simultaneous Transmission Scenario with 2.4 GHz WLAN and 5 GHz WLAN MIMO (Body-Worn at 1.5 cm)

Configuration	Mode	2G/3G/4G/5G SAR (W/kg)	2.4 GHz WLAN Ant 1 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	2.4 GHz WLAN MIMO at 19 dBm SAR (W/kg)	5 GHz WLAN MIMO at 16 dBm SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	4	5	1+2+5	1+3+5	1+4+5
Body - Worn SAR	CDMA BC10 (§90S)	0.326	0.209	0.134	0.074	0.110	0.645	0.570	0.510
	CDMA BC0 (§22H)	0.342	0.209	0.134	0.074	0.110	0.661	0.586	0.526
	PCS CDMA	0.483	0.209	0.134	0.074	0.110	0.802	0.727	0.667
	GSM 850	0.178	0.209	0.134	0.074	0.110	0.497	0.422	0.362
	GSM 1900	0.281	0.209	0.134	0.074	0.110	0.600	0.525	0.465
	UMTS 850	0.290	0.209	0.134	0.074	0.110	0.609	0.534	0.474
	UMTS 1750	0.718	0.209	0.134	0.074	0.110	1.037	0.962	0.902
	UMTS 1900	0.498	0.209	0.134	0.074	0.110	0.817	0.742	0.682
	LTE Band 71	0.241	0.209	0.134	0.074	0.110	0.560	0.485	0.425
	LTE Band 12	0.238	0.209	0.134	0.074	0.110	0.557	0.482	0.422
	LTE Band 13	0.251	0.209	0.134	0.074	0.110	0.570	0.495	0.435
	LTE Band 14	0.283	0.209	0.134	0.074	0.110	0.602	0.527	0.467
	LTE Band 26 (Cell)	0.268	0.209	0.134	0.074	0.110	0.587	0.512	0.452
	LTE Band 5 (Cell)	0.330	0.209	0.134	0.074	0.110	0.649	0.574	0.514
	LTE Band 66 (AWS)	0.837	0.209	0.134	0.074	0.110	1.156	1.081	1.021
	LTE Band 25 (PCS)	0.761	0.209	0.134	0.074	0.110	1.080	1.005	0.945
	LTE Band 30	0.473	0.209	0.134	0.074	0.110	0.792	0.717	0.657
	LTE Band 7	0.341	0.209	0.134	0.074	0.110	0.660	0.585	0.525
	LTE Band 48	0.203	0.209	0.134	0.074	0.110	0.522	0.447	0.387
	LTE Band 41	0.493	0.209	0.134	0.074	0.110	0.812	0.737	0.677
	NR Band n71	0.263	0.209	0.134	0.074	0.110	0.582	0.507	0.447
	NR Band n12	0.276	0.209	0.134	0.074	0.110	0.595	0.520	0.460
	NR Band n5 (Cell)	0.329	0.209	0.134	0.074	0.110	0.648	0.573	0.513
	NR Band n66 (AWS) Antenna A	1.016	0.209	0.134	0.074	0.110	**1.335**	1.260	1.200
	NR Band n66 (AWS) Antenna E	0.100	0.209	0.134	0.074	0.110	0.419	0.344	0.284
	NR Band n25 (PCS) Antenna A	0.528	0.209	0.134	0.074	0.110	0.847	0.772	0.712
	NR Band n25 (PCS) Antenna E	0.101	0.209	0.134	0.074	0.110	0.420	0.345	0.285
	NR Band n30	0.727	0.209	0.134	0.074	0.110	1.046	0.971	0.911
	NR Band n41 Antenna B	0.128	0.209	0.134	0.074	0.110	0.447	0.372	0.312
	NR Band n41 Antenna E	0.105	0.209	0.134	0.074	0.110	0.424	0.349	0.289
	NR Band n77	0.176	0.209	0.134	0.074	0.110	0.495	0.420	0.360

Table 12-13
Simultaneous Transmission Scenario with 2.4 GHz WLAN and 6 GHz WLAN MIMO (Body-Worn at 1.5 cm)

Configuration	Mode	2G/3G/4G/5G SAR (W/kg)	2.4 GHz WLAN Ant 1 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	2.4 GHz WLAN MIMO at 19 dBm SAR (W/kg)	6 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	4	5	1+2+5	1+3+5	1+4+5
Body - Worn SAR	CDMA BC10 (§90S)	0.326	0.209	0.134	0.074	0.061	0.596	0.521	0.461
	CDMA BC0 (§22H)	0.342	0.209	0.134	0.074	0.061	0.612	0.537	0.477
	PCS CDMA	0.483	0.209	0.134	0.074	0.061	0.753	0.678	0.618
	GSM 850	0.178	0.209	0.134	0.074	0.061	0.448	0.373	0.313
	GSM 1900	0.281	0.209	0.134	0.074	0.061	0.551	0.476	0.416
	UMTS 850	0.290	0.209	0.134	0.074	0.061	0.560	0.485	0.425
	UMTS 1750	0.718	0.209	0.134	0.074	0.061	0.988	0.913	0.853
	UMTS 1900	0.498	0.209	0.134	0.074	0.061	0.768	0.693	0.633
	LTE Band 71	0.241	0.209	0.134	0.074	0.061	0.511	0.436	0.376
	LTE Band 12	0.238	0.209	0.134	0.074	0.061	0.508	0.433	0.373
	LTE Band 13	0.251	0.209	0.134	0.074	0.061	0.521	0.446	0.386
	LTE Band 14	0.283	0.209	0.134	0.074	0.061	0.553	0.478	0.418
	LTE Band 26 (Cell)	0.268	0.209	0.134	0.074	0.061	0.538	0.463	0.403
	LTE Band 5 (Cell)	0.330	0.209	0.134	0.074	0.061	0.600	0.525	0.465
	LTE Band 66 (AWS)	0.837	0.209	0.134	0.074	0.061	1.107	1.032	0.972
	LTE Band 25 (PCS)	0.761	0.209	0.134	0.074	0.061	1.031	0.956	0.896
	LTE Band 30	0.473	0.209	0.134	0.074	0.061	0.743	0.668	0.608
	LTE Band 7	0.341	0.209	0.134	0.074	0.061	0.611	0.536	0.476
	LTE Band 48	0.203	0.209	0.134	0.074	0.061	0.473	0.398	0.338
	LTE Band 41	0.493	0.209	0.134	0.074	0.061	0.763	0.688	0.628
	NR Band n71	0.263	0.209	0.134	0.074	0.061	0.533	0.458	0.398
	NR Band n12	0.276	0.209	0.134	0.074	0.061	0.546	0.471	0.411
	NR Band n5 (Cell)	0.329	0.209	0.134	0.074	0.061	0.599	0.524	0.464
	NR Band n66 (AWS) Antenna A	1.016	0.209	0.134	0.074	0.061	**1.286**	1.211	1.151
	NR Band n66 (AWS) Antenna E	0.100	0.209	0.134	0.074	0.061	0.370	0.295	0.235
	NR Band n25 (PCS) Antenna A	0.528	0.209	0.134	0.074	0.061	0.798	0.723	0.663
	NR Band n25 (PCS) Antenna E	0.101	0.209	0.134	0.074	0.061	0.371	0.296	0.236
	NR Band n30	0.727	0.209	0.134	0.074	0.061	0.997	0.922	0.862
	NR Band n41 Antenna B	0.128	0.209	0.134	0.074	0.061	0.398	0.323	0.263
	NR Band n41 Antenna E	0.105	0.209	0.134	0.074	0.061	0.375	0.300	0.240
	NR Band n77	0.176	0.209	0.134	0.074	0.061	0.446	0.371	0.311

Table 12-14
Simultaneous Transmission Scenario with Bluetooth (Body-Worn at 1.5 cm)

Mode	2G/3G/4G/5G SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	2.4 GHz Bluetooth Ant 2 SAR (W/kg)	Σ SAR (W/kg)		
	1	2	3	1+2	1+3	1+2+3
CDMA BC10 (§90S)	0.326	0.046	0.012	0.372	0.338	0.384
CDMA BC0 (§22H)	0.342	0.046	0.012	0.388	0.354	0.400
PCS CDMA	0.483	0.046	0.012	0.529	0.495	0.541
GSM 850	0.178	0.046	0.012	0.224	0.190	0.236
GSM 1900	0.281	0.046	0.012	0.327	0.293	0.339
UMTS 850	0.290	0.046	0.012	0.336	0.302	0.348
UMTS 1750	0.718	0.046	0.012	0.764	0.730	0.776
UMTS 1900	0.498	0.046	0.012	0.544	0.510	0.556
LTE Band 71	0.241	0.046	0.012	0.287	0.253	0.299
LTE Band 12	0.238	0.046	0.012	0.284	0.250	0.296
LTE Band 13	0.251	0.046	0.012	0.297	0.263	0.309
LTE Band 14	0.283	0.046	0.012	0.329	0.295	0.341
LTE Band 26 (Cell)	0.268	0.046	0.012	0.314	0.280	0.326
LTE Band 5 (Cell)	0.330	0.046	0.012	0.376	0.342	0.388
LTE Band 66 (AWS)	0.837	0.046	0.012	0.883	0.849	0.895
LTE Band 25 (PCS)	0.761	0.046	0.012	0.807	0.773	0.819
LTE Band 30	0.473	0.046	0.012	0.519	0.485	0.531
LTE Band 7	0.341	0.046	0.012	0.387	0.353	0.399
LTE Band 48	0.203	0.046	0.012	0.249	0.215	0.261
LTE Band 41	0.493	0.046	0.012	0.539	0.505	0.551
NR Band n71	0.263	0.046	0.012	0.309	0.275	0.321
NR Band n12	0.276	0.046	0.012	0.322	0.288	0.334
NR Band n5 (Cell)	0.329	0.046	0.012	0.375	0.341	0.387
NR Band n66 (AWS) Antenna A	1.016	0.046	0.012	1.062	1.028	**1.074**
NR Band n66 (AWS) Antenna E	0.100	0.046	0.012	0.146	0.112	0.158
NR Band n25 (PCS) Antenna A	0.528	0.046	0.012	0.574	0.540	0.586
NR Band n25 (PCS) Antenna E	0.101	0.046	0.012	0.147	0.113	0.159
NR Band n30	0.727	0.046	0.012	0.773	0.739	0.785
NR Band n41 Antenna B	0.128	0.046	0.012	0.174	0.140	0.186
NR Band n41 Antenna E	0.105	0.046	0.012	0.151	0.117	0.163
NR Band n77	0.176	0.046	0.012	0.222	0.188	0.234

Table 12-15
Simultaneous Transmission Scenario with Bluetooth and 5 GHz WLAN MIMO (Body-Worn at 1.5 cm)

Configuration	Mode	2G/3G/4G/5G SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	2.4 GHz Bluetooth Ant 2 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	4	1+2+4	1+3+4	1+2+3+4
Body - Worn SAR	CDMA BC10 (§90S)	0.326	0.046	0.012	0.472	0.844	0.810	0.856
	CDMA BC0 (§22H)	0.342	0.046	0.012	0.472	0.860	0.826	0.872
	PCS CDMA	0.483	0.046	0.012	0.472	1.001	0.967	1.013
	GSM 850	0.178	0.046	0.012	0.472	0.696	0.662	0.708
	GSM 1900	0.281	0.046	0.012	0.472	0.799	0.765	0.811
	UMTS 850	0.290	0.046	0.012	0.472	0.808	0.774	0.820
	UMTS 1750	0.718	0.046	0.012	0.472	1.236	1.202	1.248
	UMTS 1900	0.498	0.046	0.012	0.472	1.016	0.982	1.028
	LTE Band 71	0.241	0.046	0.012	0.472	0.759	0.725	0.771
	LTE Band 12	0.238	0.046	0.012	0.472	0.756	0.722	0.768
	LTE Band 13	0.251	0.046	0.012	0.472	0.769	0.735	0.781
	LTE Band 14	0.283	0.046	0.012	0.472	0.801	0.767	0.813
	LTE Band 26 (Cell)	0.268	0.046	0.012	0.472	0.786	0.752	0.798
	LTE Band 5 (Cell)	0.330	0.046	0.012	0.472	0.848	0.814	0.860
	LTE Band 66 (AWS)	0.837	0.046	0.012	0.472	1.355	1.321	1.367
	LTE Band 25 (PCS)	0.761	0.046	0.012	0.472	1.279	1.245	1.291
	LTE Band 30	0.473	0.046	0.012	0.472	0.991	0.957	1.003
	LTE Band 7	0.341	0.046	0.012	0.472	0.859	0.825	0.871
	LTE Band 48	0.203	0.046	0.012	0.472	0.721	0.687	0.733
	LTE Band 41	0.493	0.046	0.012	0.472	1.011	0.977	1.023
	NR Band n71	0.263	0.046	0.012	0.472	0.781	0.747	0.793
	NR Band n12	0.276	0.046	0.012	0.472	0.794	0.760	0.806
	NR Band n5 (Cell)	0.329	0.046	0.012	0.472	0.847	0.813	0.859
	NR Band n66 (AWS) Antenna A	1.016	0.046	0.012	0.472	1.534	1.500	**1.546**
	NR Band n66 (AWS) Antenna E	0.100	0.046	0.012	0.472	0.618	0.584	0.630
	NR Band n25 (PCS) Antenna A	0.528	0.046	0.012	0.472	1.046	1.012	1.058
	NR Band n25 (PCS) Antenna E	0.101	0.046	0.012	0.472	0.619	0.585	0.631
	NR Band n30	0.727	0.046	0.012	0.472	1.245	1.211	1.257
	NR Band n41 Antenna B	0.128	0.046	0.012	0.472	0.646	0.612	0.658
	NR Band n41 Antenna E	0.105	0.046	0.012	0.472	0.623	0.589	0.635
	NR Band n77	0.176	0.046	0.012	0.472	0.694	0.660	0.706

Table 12-16
Simultaneous Transmission Scenario with Bluetooth and 6 GHz WLAN MIMO (Body-Worn at 1.5 cm)

Configuration	Mode	2G/3G/4G/5G SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	2.4 GHz Bluetooth Ant 2 SAR (W/kg)	6 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	4	1+2+4	1+3+4	1+2+3+4
Body - Worn SAR	CDMA BC10 (§90S)	0.326	0.046	0.012	0.061	0.433	0.399	0.445
	CDMA BC0 (§22H)	0.342	0.046	0.012	0.061	0.449	0.415	0.461
	PCS CDMA	0.483	0.046	0.012	0.061	0.590	0.556	0.602
	GSM 850	0.178	0.046	0.012	0.061	0.285	0.251	0.297
	GSM 1900	0.281	0.046	0.012	0.061	0.388	0.354	0.400
	UMTS 850	0.290	0.046	0.012	0.061	0.397	0.363	0.409
	UMTS 1750	0.718	0.046	0.012	0.061	0.825	0.791	0.837
	UMTS 1900	0.498	0.046	0.012	0.061	0.605	0.571	0.617
	LTE Band 71	0.241	0.046	0.012	0.061	0.348	0.314	0.360
	LTE Band 12	0.238	0.046	0.012	0.061	0.345	0.311	0.357
	LTE Band 13	0.251	0.046	0.012	0.061	0.358	0.324	0.370
	LTE Band 14	0.283	0.046	0.012	0.061	0.390	0.356	0.402
	LTE Band 26 (Cell)	0.268	0.046	0.012	0.061	0.375	0.341	0.387
	LTE Band 5 (Cell)	0.330	0.046	0.012	0.061	0.437	0.403	0.449
	LTE Band 66 (AWS)	0.837	0.046	0.012	0.061	0.944	0.910	0.956
	LTE Band 25 (PCS)	0.761	0.046	0.012	0.061	0.868	0.834	0.880
	LTE Band 30	0.473	0.046	0.012	0.061	0.580	0.546	0.592
	LTE Band 7	0.341	0.046	0.012	0.061	0.448	0.414	0.460
	LTE Band 48	0.203	0.046	0.012	0.061	0.310	0.276	0.322
	LTE Band 41	0.493	0.046	0.012	0.061	0.600	0.566	0.612
	NR Band n71	0.263	0.046	0.012	0.061	0.370	0.336	0.382
	NR Band n12	0.276	0.046	0.012	0.061	0.383	0.349	0.395
	NR Band n5 (Cell)	0.329	0.046	0.012	0.061	0.436	0.402	0.448
	NR Band n66 (AWS) Antenna A	1.016	0.046	0.012	0.061	1.123	1.089	**1.135**
	NR Band n66 (AWS) Antenna E	0.100	0.046	0.012	0.061	0.207	0.173	0.219
	NR Band n25 (PCS) Antenna A	0.528	0.046	0.012	0.061	0.635	0.601	0.647
	NR Band n25 (PCS) Antenna E	0.101	0.046	0.012	0.061	0.208	0.174	0.220
	NR Band n30	0.727	0.046	0.012	0.061	0.834	0.800	0.846
	NR Band n41 Antenna B	0.128	0.046	0.012	0.061	0.235	0.201	0.247
	NR Band n41 Antenna E	0.105	0.046	0.012	0.061	0.212	0.178	0.224
	NR Band n77	0.176	0.046	0.012	0.061	0.283	0.249	0.295

12.5 Hotspot SAR Simultaneous Transmission Analysis

Table 12-17
Simultaneous Transmission Scenario with 2.4 GHz WLAN (Hotspot at 1.0 cm)

Configuration	Mode	2G/3G/4G/5G SAR (W/kg)	2.4 GHz WLAN Ant 1 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	1+2	1+3	1+2+3
Hotspot SAR	EVDO BC10 (§90S)	0.683	0.454	0.458	1.137	1.141	See Table Below
	EVDO BC0 (§22H)	0.745	0.454	0.458	1.199	1.203	See Table Below
	PCS EVDO	1.049	0.454	0.458	1.503	1.507	See Table Below
	GPRS 850	0.517	0.454	0.458	0.971	0.975	1.429
	GPRS 1900	0.910	0.454	0.458	1.364	1.368	See Table Below
	UMTS 850	0.722	0.454	0.458	1.176	1.180	See Table Below
	UMTS 1750	0.958	0.454	0.458	1.412	1.416	See Table Below
	UMTS 1900	0.992	0.454	0.458	1.446	1.450	See Table Below
	LTE Band 71	0.371	0.454	0.458	0.825	0.829	1.283
	LTE Band 12	0.405	0.454	0.458	0.859	0.863	1.317
	LTE Band 13	0.527	0.454	0.458	0.981	0.985	1.439
	LTE Band 14	0.620	0.454	0.458	1.074	1.078	1.532
	LTE Band 26 (Cell)	0.557	0.454	0.458	1.011	1.015	1.469
	LTE Band 5 (Cell)	0.729	0.454	0.458	1.183	1.187	See Table Below
	LTE Band 66 (AWS)	1.140	0.454	0.458	**1.594**	See Table Below	See Table Below
	LTE Band 25 (PCS)	1.087	0.454	0.458	1.541	1.545	See Table Below
	LTE Band 30	1.080	0.454	0.458	1.534	1.538	See Table Below
	LTE Band 7	0.762	0.454	0.458	1.216	1.220	See Table Below
	LTE Band 48	0.629	0.454	0.458	1.083	1.087	1.541
	LTE Band 41	0.513	0.454	0.458	0.967	0.971	1.425
	NR Band n71	0.411	0.454	0.458	0.865	0.869	1.323
	NR Band n12	0.460	0.454	0.458	0.914	0.918	1.372
	NR Band n5 (Cell)	0.779	0.454	0.458	1.233	1.237	See Table Below
	NR Band n66 (AWS) Antenna A	1.020	0.454	0.458	1.474	1.478	See Table Below
	NR Band n66 (AWS) Antenna E	0.149	0.454	0.458	0.603	0.607	1.061
	NR Band n25 (PCS) Antenna A	1.061	0.454	0.458	1.515	1.519	See Table Below
	NR Band n25 (PCS) Antenna E	0.108	0.454	0.458	0.562	0.566	1.020
	NR Band n30	1.163	0.454	0.458	See Table Below	See Table Below	See Table Below
	NR Band n41 Antenna B	0.073	0.454	0.458	0.527	0.531	0.985
	NR Band n41 Antenna E	0.071	0.454	0.458	0.525	0.529	0.983
	NR Band n77	0.346	0.454	0.458	0.800	0.804	1.258

Simult Tx	Configuration	EVDO BC10 (§90S) SAR (W/kg)	2.4 GHz WLAN Ant 1 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	EVDO BC0 (§22H) SAR (W/kg)	2.4 GHz WLAN Ant 1 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3			1	2	3	1+2+3
Hotspot SAR	Back	0.683	0.454	0.266	**1.403**	Hotspot SAR	Back	0.745	0.454	0.266	**1.465**
	Front	0.393	0.039	0.229	0.661		Front	0.458	0.039	0.229	0.726
	Top	-	0.105	-	0.105		Top	-	0.105	-	0.105
	Bottom	0.347	-	-	0.347		Bottom	0.413	-	-	0.413
	Right	0.264	-	-	0.264		Right	0.281	-	-	0.281
	Left	0.078	0.454*	0.458	0.990		Left	0.061	0.454*	0.458	0.973

Simult Tx	Configuration	PCS EVDO SAR (W/kg)	2.4 GHz WLAN Ant 1 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	GPRS 1900 SAR (W/kg)	2.4 GHz WLAN Ant 1 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3			1	2	3	1+2+3
Hotspot SAR	Back	0.327	0.454	0.266	1.047	Hotspot SAR	Back	0.326	0.454	0.266	**1.046**
	Front	0.246	0.039	0.229	0.514		Front	0.258	0.039	0.229	0.526
	Top	-	0.105	-	0.105		Top	-	0.105	-	0.105
	Bottom	1.049	-	-	**1.049**		Bottom	0.910	-	-	0.910
	Right	0.032	-	-	0.032		Right	0.033	-	-	0.033
	Left	0.071	0.454*	0.458	0.983		Left	0.048	0.454*	0.458	0.960

Simult Tx	Configuration	UMTS 850 SAR (W/kg)	2.4 GHz WLAN Ant 1 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	UMTS 1750 SAR (W/kg)	2.4 GHz WLAN Ant 1 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3			1	2	3	1+2+3
Hotspot SAR	Back	0.722	0.454	0.266	**1.442**	Hotspot SAR	Back	0.465	0.454	0.266	**1.185**
	Front	0.387	0.039	0.229	0.655		Front	0.408	0.039	0.229	0.676
	Top	-	0.105	-	0.105		Top	-	0.105	-	0.105
	Bottom	0.363	-	-	0.363		Bottom	0.958	-	-	0.958
	Right	0.250	-	-	0.250		Right	0.091	-	-	0.091
	Left	0.052	0.454*	0.458	0.964		Left	0.074	0.454*	0.458	0.986

Simult Tx	Configuration	UMTS 1900 SAR (W/kg)	2.4 GHz WLAN Ant 1 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	LTE Band 5 (Cell) SAR (W/kg)	2.4 GHz WLAN Ant 1 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3			1	2	3	1+2+3
Hotspot SAR	Back	0.311	0.454	0.266	**1.031**	Hotspot SAR	Back	0.729	0.454	0.266	**1.449**
	Front	0.201	0.039	0.229	0.469		Front	0.487	0.039	0.229	0.755
	Top	-	0.105	-	0.105		Top	-	0.105	-	0.105
	Bottom	0.992	-	-	0.992		Bottom	0.451	-	-	0.451
	Right	0.031	-	-	0.031		Right	0.270	-	-	0.270
	Left	0.065	0.454*	0.458	0.977		Left	0.069	0.454*	0.458	0.981

Simult Tx	Configuration	LTE Band 66 (AWS) SAR (W/kg)	2.4 GHz WLAN Ant 1 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)		Simult Tx	Configuration	LTE Band 25 (PCS) SAR (W/kg)	2.4 GHz WLAN Ant 1 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+3	1+2+3			1	2	3	1+2+3
Hotspot SAR	Back	0.527	0.454	0.266	0.793	**1.247**	Hotspot SAR	Back	0.394	0.454	0.266	**1.114**
	Front	0.433	0.039	0.229	0.662	0.701		Front	0.269	0.039	0.229	0.537
	Top	-	0.105	-	-	0.105		Top	-	0.105	-	0.105
	Bottom	1.140	-	-	1.140	1.140		Bottom	1.087	-	-	1.087
	Right	0.078	-	-	0.078	0.078		Right	0.042	-	-	0.042
	Left	0.079	0.454*	0.458	0.537	0.991		Left	0.065	0.454*	0.458	0.977

Simult Tx	Configuration	LTE Band 30 SAR (W/kg)	2.4 GHz WLAN Ant 1 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	LTE Band 7 SAR (W/kg)	2.4 GHz WLAN Ant 1 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3			1	2	3	1+2+3
Hotspot SAR	Back	0.341	0.454	0.266	1.061	Hotspot SAR	Back	0.294	0.454	0.266	1.014
	Front	0.314	0.039	0.229	0.582		Front	0.288	0.039	0.229	0.556
	Top	-	0.105	-	0.105		Top	-	0.105	-	0.105
	Bottom	1.080	-	-	**1.080**		Bottom	0.762	-	-	0.762
	Right	0.043	-	-	0.043		Right	-	-	-	-
	Left	0.050	0.454*	0.458	0.962		Left	0.154	0.454*	0.458	**1.066**

Simult Tx	Configuration	NR Band n5 (Cell) SAR (W/kg)	2.4 GHz WLAN Ant 1 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	NR Band n66 (AWS) Antenna A SAR (W/kg)	2.4 GHz WLAN Ant 1 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3			1	2	3	1+2+3
Hotspot SAR	Back	0.779	0.454	0.266	**1.499**	Hotspot SAR	Back	0.651	0.454	0.266	**1.371**
	Front	0.554	0.039	0.229	0.822		Front	0.545	0.039	0.229	0.813
	Top	-	0.105	-	0.105		Top	-	0.105	-	0.105
	Bottom	0.484	-	-	0.484		Bottom	1.020	-	-	1.020
	Right	0.286	-	-	0.286		Right	0.079	-	-	0.079
	Left	0.062	0.454*	0.458	0.974		Left	0.067	0.454*	0.458	0.979

Simult Tx	Configuration	NR Band n25 (PCS) Antenna A SAR (W/kg)	2.4 GHz WLAN Ant 1 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	NR Band n30 SAR (W/kg)	2.4 GHz WLAN Ant 1 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	1+2+3			1	2	3	1+2	1+3	1+2+3
Hotspot SAR	Back	0.483	0.454	0.266	**1.203**	Hotspot SAR	Back	0.390	0.454	0.266	0.844	0.656	1.110
	Front	0.288	0.039	0.229	0.556		Front	0.364	0.039	0.229	0.403	0.593	0.632
	Top	-	0.105	-	0.105		Top	-	0.105	-	0.105	-	0.105
	Bottom	1.061	-	-	1.061		Bottom	1.163	-	-	**1.163**	**1.163**	**1.163**
	Right	0.049	-	-	0.049		Right	0.050	-	-	0.050	0.050	0.050
	Left	0.070	0.454*	0.458	0.982		Left	0.027	0.454*	0.458	0.481	0.485	0.939

Table 12-18
Simultaneous Transmission Scenario with 5 GHz WLAN MIMO (Hotspot at 1.0 cm)

Configuration	Mode	2G/3G/4G/5G SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2
Hotspot SAR	EVDO BC10 (§90S)	0.683	0.492	1.175
	EVDO BC0 (§22H)	0.745	0.492	1.237
	PCS EVDO	1.049	0.492	1.541
	GPRS 850	0.517	0.492	1.009
	GPRS 1900	0.910	0.492	1.402
	UMTS 850	0.722	0.492	1.214
	UMTS 1750	0.958	0.492	1.450
	UMTS 1900	0.992	0.492	1.484
	LTE Band 71	0.371	0.492	0.863
	LTE Band 12	0.405	0.492	0.897
	LTE Band 13	0.527	0.492	1.019
	LTE Band 14	0.620	0.492	1.112
	LTE Band 26 (Cell)	0.557	0.492	1.049
	LTE Band 5 (Cell)	0.729	0.492	1.221
	LTE Band 66 (AWS)	1.140	0.492	See Table Below
	LTE Band 25 (PCS)	1.087	0.492	**1.579**
	LTE Band 30	1.080	0.492	1.572
	LTE Band 7	0.762	0.492	1.254
	LTE Band 48	0.629	0.492	1.121
	LTE Band 41	0.513	0.492	1.005
	NR Band n71	0.411	0.492	0.903
	NR Band n12	0.460	0.492	0.952
	NR Band n5 (Cell)	0.779	0.492	1.271
	NR Band n66 (AWS) Antenna A	1.020	0.492	1.512
	NR Band n66 (AWS) Antenna E	0.149	0.492	0.641
	NR Band n25 (PCS) Antenna A	1.061	0.492	1.553
	NR Band n25 (PCS) Antenna E	0.108	0.492	0.600
	NR Band n30	1.163	0.492	See Table Below
	NR Band n41 Antenna B	0.073	0.492	0.565
	NR Band n41 Antenna E	0.071	0.492	0.563
	NR Band n77	0.346	0.492	0.838

Simult Tx	Configuration	LTE Band 66 (AWS) SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	NR Band n30 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2			1	2	1+2
Hotspot SAR	Back	0.527	0.492	1.019	Hotspot SAR	Back	0.390	0.492	0.882
	Front	0.433	0.103	0.536		Front	0.364	0.103	0.467
	Top	-	0.492*	0.492		Top	-	0.492*	0.492
	Bottom	1.140	-	**1.140**		Bottom	1.163	-	**1.163**
	Right	0.078	-	0.078		Right	0.050	-	0.050
	Left	0.079	0.362	0.441		Left	0.027	0.362	0.389

Table 12-19
Simultaneous Transmission Scenario with 2.4 GHz WLAN and 5 GHz WLAN MIMO (Hotspot at 1.0 cm)

Configuration	Mode	2G/3G/4G/5G SAR (W/kg)	2.4 GHz WLAN Ant 1 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	2.4 GHz WLAN MIMO at 19 dBm SAR (W/kg)	5 GHz WLAN MIMO at 16 dBm SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	4	5	1+2+5	1+3+5	1+4+5
Hotspot SAR	EVDO BC10 (§90S)	0.683	0.454	0.458	0.182	0.174	1.311	1.315	1.039
	EVDO BC0 (§22H)	0.745	0.454	0.458	0.182	0.174	1.373	1.203	1.101
	PCS EVDO	1.049	0.454	0.458	0.182	0.174	See Table Below	1.507	1.405
	GPRS 850	0.517	0.454	0.458	0.182	0.174	1.145	0.975	0.873
	GPRS 1900	0.910	0.454	0.458	0.182	0.174	1.538	1.368	1.266
	UMTS 850	0.722	0.454	0.458	0.182	0.174	1.350	1.180	1.078
	UMTS 1750	0.958	0.454	0.458	0.182	0.174	**1.586**	1.416	1.314
	UMTS 1900	0.992	0.454	0.458	0.182	0.174	See Table Below	1.450	1.348
	LTE Band 71	0.371	0.454	0.458	0.182	0.174	0.999	0.829	0.727
	LTE Band 12	0.405	0.454	0.458	0.182	0.174	1.033	0.863	0.761
	LTE Band 13	0.527	0.454	0.458	0.182	0.174	1.155	0.985	0.883
	LTE Band 14	0.620	0.454	0.458	0.182	0.174	1.248	1.078	0.976
	LTE Band 26 (Cell)	0.557	0.454	0.458	0.182	0.174	1.185	1.015	0.913
	LTE Band 5 (Cell)	0.729	0.454	0.458	0.182	0.174	1.357	1.187	1.085
	LTE Band 66 (AWS)	1.140	0.454	0.458	0.182	0.174	See Table Below	See Table Below	1.496
	LTE Band 25 (PCS)	1.087	0.454	0.458	0.182	0.174	See Table Below	1.545	1.443
	LTE Band 30	1.080	0.454	0.458	0.182	0.174	See Table Below	1.538	1.436
	LTE Band 7	0.762	0.454	0.458	0.182	0.174	1.390	1.220	1.118
	LTE Band 48	0.629	0.454	0.458	0.182	0.174	1.257	1.087	0.985
	LTE Band 41	0.513	0.454	0.458	0.182	0.174	1.141	0.971	0.869
	NR Band n71	0.411	0.454	0.458	0.182	0.174	1.039	0.869	0.767
	NR Band n12	0.460	0.454	0.458	0.182	0.174	1.088	0.918	0.816
	NR Band n5 (Cell)	0.779	0.454	0.458	0.182	0.174	1.407	1.237	1.135
	NR Band n66 (AWS) Antenna A	1.020	0.454	0.458	0.182	0.174	See Table Below	1.478	1.376
	NR Band n66 (AWS) Antenna E	0.149	0.454	0.458	0.182	0.174	0.777	0.607	0.505
	NR Band n25 (PCS) Antenna A	1.061	0.454	0.458	0.182	0.174	See Table Below	1.519	1.417
	NR Band n25 (PCS) Antenna E	0.108	0.454	0.458	0.182	0.174	0.736	0.566	0.464
	NR Band n30	1.163	0.454	0.458	0.182	0.174	See Table Below	See Table Below	1.519
	NR Band n41 Antenna B	0.073	0.454	0.458	0.182	0.174	0.701	0.531	0.429
	NR Band n41 Antenna E	0.071	0.454	0.458	0.182	0.174	0.699	0.529	0.427
	NR Band n77	0.346	0.454	0.458	0.182	0.174	0.974	0.804	0.702

Simult Tx	Configuration	PCS EVDO SAR (W/kg)	2.4 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN MIMO at 16 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	5	1+2+5
Hotspot SAR	Back	0.327	0.454	0.174	0.955
	Front	0.246	0.039	0.037	0.322
	Top	-	0.105	0.040	0.145
	Bottom	1.049	-	-	**1.049**
	Right	0.032	-	-	0.032
	Left	0.071	0.454*	0.094	0.619

Simult Tx	Configuration	UMTS 1900 SAR (W/kg)	2.4 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN MIMO at 16 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	5	1+2+5
Hotspot SAR	Back	0.311	0.454	0.174	0.939
	Front	0.201	0.039	0.037	0.277
	Top	-	0.105	0.040	0.145
	Bottom	0.992	-	-	**0.992**
	Right	0.031	-	-	0.031
	Left	0.065	0.454*	0.094	0.613

Simult Tx	Configuration	LTE Band 66 (AWS) SAR (W/kg)	2.4 GHz WLAN Ant 1 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	5 GHz WLAN MIMO at 16 dBm SAR (W/kg)	Σ SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	5	1+2+5	1+3+5
Hotspot SAR	Back	0.527	0.454	0.266	0.174	**1.155**	0.967
	Front	0.433	0.039	0.229	0.037	0.509	0.699
	Top	-	0.105	-	0.040	0.145	0.040
	Bottom	1.140	-	-	-	1.140	1.140
	Right	0.078	-	-	-	0.078	0.078
	Left	0.079	0.454*	0.458	0.094	0.627	0.631

Simult Tx	Configuration	LTE Band 25 (PCS) SAR (W/kg)	2.4 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN MIMO at 16 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	5	1+2+5
Hotspot SAR	Back	0.394	0.454	0.174	1.022
	Front	0.269	0.039	0.037	0.345
	Top	-	0.105	0.040	0.145
	Bottom	1.087	-	-	**1.087**
	Right	0.042	-	-	0.042
	Left	0.065	0.454*	0.094	0.613

Simult Tx	Configuration	LTE Band 30 SAR (W/kg)	2.4 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN MIMO at 16 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	5	1+2+5
Hotspot SAR	Back	0.341	0.454	0.174	0.969
	Front	0.314	0.039	0.037	0.390
	Top	-	0.105	0.040	0.145
	Bottom	1.080	-	-	**1.080**
	Right	0.043	-	-	0.043
	Left	0.050	0.454*	0.094	0.598

Simult Tx	Configuration	NR Band n66 (AWS) Antenna A SAR (W/kg)	2.4 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN MIMO at 16 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	5	1+2+5
Hotspot SAR	Back	0.651	0.454	0.174	**1.279**
	Front	0.545	0.039	0.037	0.621
	Top	-	0.105	0.040	0.145
	Bottom	1.020	-	-	1.020
	Right	0.079	-	-	0.079
	Left	0.067	0.454*	0.094	0.615

Simult Tx	Configuration	NR Band n25 (PCS) Antenna A SAR (W/kg)	2.4 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN MIMO at 16 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	5	1+2+5
Hotspot SAR	Back	0.483	0.454	0.174	**1.111**
	Front	0.288	0.039	0.037	0.364
	Top	-	0.105	0.040	0.145
	Bottom	1.061	-	-	1.061
	Right	0.049	-	-	0.049
	Left	0.070	0.454*	0.094	0.618

Simult Tx	Configuration	NR Band n30 SAR (W/kg)	2.4 GHz WLAN Ant 1 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	5 GHz WLAN MIMO at 16 dBm SAR (W/kg)	Σ SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	5	1+2+5	1+3+5
Hotspot SAR	Back	0.390	0.454	0.266	0.174	1.018	0.830
	Front	0.364	0.039	0.229	0.037	0.440	0.630
	Top	-	0.105	-	0.040	0.145	0.040
	Bottom	1.163	-	-	-	**1.163**	**1.163**
	Right	0.050	-	-	-	0.050	0.050
	Left	0.027	0.454*	0.458	0.094	0.575	0.579

Table 12-20
Simultaneous Transmission Scenario with Bluetooth (Hotspot at 1.0 cm)

Configuration	Mode	2G/3G/4G/5G SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	2.4 GHz Bluetooth Ant 2 SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	1+2	1+3	1+2+3
Hotspot SAR	EVDO BC10 (§90S)	0.683	0.122	0.064	0.805	0.747	0.869
	EVDO BC0 (§22H)	0.745	0.122	0.064	0.867	0.809	0.931
	PCS EVDO	1.049	0.122	0.064	1.171	1.113	1.235
	GPRS 850	0.517	0.122	0.064	0.639	0.581	0.703
	GPRS 1900	0.910	0.122	0.064	1.032	0.974	1.096
	UMTS 850	0.722	0.122	0.064	0.844	0.786	0.908
	UMTS 1750	0.958	0.122	0.064	1.080	1.022	1.144
	UMTS 1900	0.992	0.122	0.064	1.114	1.056	1.178
	LTE Band 71	0.371	0.122	0.064	0.493	0.435	0.557
	LTE Band 12	0.405	0.122	0.064	0.527	0.469	0.591
	LTE Band 13	0.527	0.122	0.064	0.649	0.591	0.713
	LTE Band 14	0.620	0.122	0.064	0.742	0.684	0.806
	LTE Band 26 (Cell)	0.557	0.122	0.064	0.679	0.621	0.743
	LTE Band 5 (Cell)	0.729	0.122	0.064	0.851	0.793	0.915
	LTE Band 66 (AWS)	1.140	0.122	0.064	1.262	1.204	1.326
	LTE Band 25 (PCS)	1.087	0.122	0.064	1.209	1.151	1.273
	LTE Band 30	1.080	0.122	0.064	1.202	1.144	1.266
	LTE Band 7	0.762	0.122	0.064	0.884	0.826	0.948
	LTE Band 48	0.629	0.122	0.064	0.751	0.693	0.815
	LTE Band 41	0.513	0.122	0.064	0.635	0.577	0.699
	NR Band n71	0.411	0.122	0.064	0.533	0.475	0.597
	NR Band n12	0.460	0.122	0.064	0.582	0.524	0.646
	NR Band n5 (Cell)	0.779	0.122	0.064	0.901	0.843	0.965
	NR Band n66 (AWS) Antenna A	1.020	0.122	0.064	1.142	1.084	1.206
	NR Band n66 (AWS) Antenna E	0.149	0.122	0.064	0.271	0.213	0.335
	NR Band n25 (PCS) Antenna A	1.061	0.122	0.064	1.183	1.125	1.247
	NR Band n25 (PCS) Antenna E	0.108	0.122	0.064	0.230	0.172	0.294
	NR Band n30	1.163	0.122	0.064	1.285	1.227	**1.349**
	NR Band n41 Antenna B	0.073	0.122	0.064	0.195	0.137	0.259
	NR Band n41 Antenna E	0.071	0.122	0.064	0.193	0.135	0.257
	NR Band n77	0.346	0.122	0.064	0.468	0.410	0.532

Table 12-21
Simultaneous Transmission Scenario with Bluetooth and 5 GHz WLAN (Hotspot at 1.0 cm)

Configuration	Mode	2G/3G/4G/5G SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	2.4 GHz Bluetooth Ant 2 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	4	1+2+4	1+3+4	1+2+3+4
Hotspot SAR	EVDO BC10 (§90S)	0.683	0.122	0.064	0.492	1.297	1.239	1.361
	EVDO BC0 (§22H)	0.745	0.122	0.064	0.492	1.359	1.301	1.423
	PCS EVDO	1.049	0.122	0.064	0.492	See Table Below	See Table Below	See Table Below
	GPRS 850	0.517	0.122	0.064	0.492	1.131	1.073	1.195
	GPRS 1900	0.910	0.122	0.064	0.492	1.524	1.466	**1.588**
	UMTS 850	0.722	0.122	0.064	0.492	1.336	1.278	1.400
	UMTS 1750	0.958	0.122	0.064	0.492	1.572	1.514	See Table Below
	UMTS 1900	0.992	0.122	0.064	0.492	See Table Below	1.548	See Table Below
	LTE Band 71	0.371	0.122	0.064	0.492	0.985	0.927	1.049
	LTE Band 12	0.405	0.122	0.064	0.492	1.019	0.961	1.083
	LTE Band 13	0.527	0.122	0.064	0.492	1.141	1.083	1.205
	LTE Band 14	0.620	0.122	0.064	0.492	1.234	1.176	1.298
	LTE Band 26 (Cell)	0.557	0.122	0.064	0.492	1.171	1.113	1.235
	LTE Band 5 (Cell)	0.729	0.122	0.064	0.492	1.343	1.285	1.407
	LTE Band 66 (AWS)	1.140	0.122	0.064	0.492	See Table Below	See Table Below	See Table Below
	LTE Band 25 (PCS)	1.087	0.122	0.064	0.492	See Table Below	See Table Below	See Table Below
	LTE Band 30	1.080	0.122	0.064	0.492	See Table Below	See Table Below	See Table Below
	LTE Band 7	0.762	0.122	0.064	0.492	1.376	1.318	1.440
	LTE Band 48	0.629	0.122	0.064	0.492	1.243	1.185	1.307
	LTE Band 41	0.513	0.122	0.064	0.492	1.127	1.069	1.191
	NR Band n71	0.411	0.122	0.064	0.492	1.025	0.967	1.089
	NR Band n12	0.460	0.122	0.064	0.492	1.074	1.016	1.138
	NR Band n5 (Cell)	0.779	0.122	0.064	0.492	1.393	1.335	1.457
	NR Band n66 (AWS) Antenna A	1.020	0.122	0.064	0.492	See Table Below	1.576	See Table Below
	NR Band n66 (AWS) Antenna E	0.149	0.122	0.064	0.492	0.763	0.705	0.827
	NR Band n25 (PCS) Antenna A	1.061	0.122	0.064	0.492	See Table Below	See Table Below	See Table Below
	NR Band n25 (PCS) Antenna E	0.108	0.122	0.064	0.492	0.722	0.664	0.786
	NR Band n30	1.163	0.122	0.064	0.492	See Table Below	See Table Below	See Table Below
	NR Band n41 Antenna B	0.073	0.122	0.064	0.492	0.687	0.629	0.751
	NR Band n41 Antenna E	0.071	0.122	0.064	0.492	0.685	0.627	0.749
	NR Band n77	0.346	0.122	0.064	0.492	0.960	0.902	1.024

Simult Tx	Configuration	PCS EVDO SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	2.4 GHz Bluetooth Ant 2 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	4	1+2+4	1+3+4	1+2+3+4
Hotspot SAR	Back	0.327	0.122	0.034	0.492	0.941	0.853	0.975
	Front	0.246	0.023	0.023	0.103	0.372	0.372	0.395
	Top	-	0.021	-	0.492*	0.513	0.492	0.513
	Bottom	1.049	-	-	-	**1.049**	**1.049**	**1.049**
	Right	0.032	-	-	-	0.032	0.032	0.032
	Left	0.071	0.005	0.064	0.362	0.438	0.497	0.502

Simult Tx	Configuration	UMTS 1750 SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	2.4 GHz Bluetooth Ant 2 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Hotspot SAR	Back	0.465	0.122	0.034	0.492	**1.113**
	Front	0.408	0.023	0.023	0.103	0.557
	Top	-	0.021	-	0.492*	0.513
	Bottom	0.958	-	-	-	0.958
	Right	0.091	-	-	-	0.091
	Left	0.074	0.005	0.064	0.362	0.505

Simult Tx	Configuration	UMTS 1900 SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	2.4 GHz Bluetooth Ant 2 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)	
		1	2	3	4	1+2+4	1+2+3+4
Hotspot SAR	Back	0.311	0.122	0.034	0.492	0.925	0.959
	Front	0.201	0.023	0.023	0.103	0.327	0.350
	Top	-	0.021	-	0.492*	0.513	0.513
	Bottom	0.992	-	-	-	**0.992**	**0.992**
	Right	0.031	-	-	-	0.031	0.031
	Left	0.065	0.005	0.064	0.362	0.432	0.496

Simult Tx	Configuration	LTE Band 66 (AWS) SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	2.4 GHz Bluetooth Ant 2 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	4	1+2+4	1+3+4	1+2+3+4
Hotspot SAR	Back	0.527	0.122	0.034	0.492	1.141	1.053	**1.175**
	Front	0.433	0.023	0.023	0.103	0.559	0.559	0.582
	Top	-	0.021	-	0.492*	0.513	0.492	0.513
	Bottom	1.140	-	-	-	1.140	1.140	1.140
	Right	0.078	-	-	-	0.078	0.078	0.078
	Left	0.079	0.005	0.064	0.362	0.446	0.505	0.510

Simult Tx	Configuration	LTE Band 25 (PCS) SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	2.4 GHz Bluetooth Ant 2 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	4	1+2+4	1+3+4	1+2+3+4
Hotspot SAR	Back	0.394	0.122	0.034	0.492	1.008	0.920	1.042
	Front	0.269	0.023	0.023	0.103	0.395	0.395	0.418
	Top	-	0.021	-	0.492*	0.513	0.492	0.513
	Bottom	1.087	-	-	-	**1.087**	**1.087**	**1.087**
	Right	0.042	-	-	-	0.042	0.042	0.042
	Left	0.065	0.005	0.064	0.362	0.432	0.491	0.496

Simult Tx	Configuration	LTE Band 30 SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	2.4 GHz Bluetooth Ant 2 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	4	1+2+4	1+3+4	1+2+3+4
Hotspot SAR	Back	0.341	0.122	0.034	0.492	0.955	0.867	0.989
	Front	0.314	0.023	0.023	0.103	0.440	0.440	0.463
	Top	-	0.021	-	0.492*	0.513	0.492	0.513
	Bottom	1.080	-	-	-	**1.080**	**1.080**	**1.080**
	Right	0.043	-	-	-	0.043	0.043	0.043
	Left	0.050	0.005	0.064	0.362	0.417	0.476	0.481

Simult Tx	Configuration	NR Band n66 (AWS) Antenna A SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	2.4 GHz Bluetooth Ant 2 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)	
		1	2	3	4	1+2+4	1+2+3+4
Hotspot SAR	Back	0.651	0.122	0.034	0.492	1.265	**1.299**
	Front	0.545	0.023	0.023	0.103	0.671	0.694
	Top	-	0.021	-	0.492*	0.513	0.513
	Bottom	1.020	-	-	-	1.020	1.020
	Right	0.079	-	-	-	0.079	0.079
	Left	0.067	0.005	0.064	0.362	0.434	0.498

Simult Tx	Configuration	NR Band n25 (PCS) Antenna A SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	2.4 GHz Bluetooth Ant 2 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	4	1+2+4	1+3+4	1+2+3+4
Hotspot SAR	Back	0.483	0.122	0.034	0.492	1.097	1.009	**1.131**
	Front	0.288	0.023	0.023	0.103	0.414	0.414	0.437
	Top	-	0.021	-	0.492*	0.513	0.492	0.513
	Bottom	1.061	-	-	-	1.061	1.061	1.061
	Right	0.049	-	-	-	0.049	0.049	0.049
	Left	0.070	0.005	0.064	0.362	0.437	0.496	0.501

Simult Tx	Configuration	NR Band n30 SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	2.4 GHz Bluetooth Ant 2 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	4	1+2+4	1+3+4	1+2+3+4
Hotspot SAR	Back	0.390	0.122	0.034	0.492	1.004	0.916	1.038
	Front	0.364	0.023	0.023	0.103	0.490	0.490	0.513
	Top	-	0.021	-	0.492*	0.513	0.492	0.513
	Bottom	1.163	-	-	-	**1.163**	**1.163**	**1.163**
	Right	0.050	-	-	-	0.050	0.050	0.050
	Left	0.027	0.005	0.064	0.362	0.394	0.453	0.458

12.6 Phablet Simultaneous Transmission Analysis

For SAR summation, the highest reported SAR across all test distances was used as the most conservative evaluation for simultaneous transmission analysis for each device edge.

Per FCC KDB Publication 648474 D04 Handset SAR, Phablet SAR tests were not required if wireless router 1g SAR (scaled to the maximum output power, including tolerance) < 1.2 W/kg. Therefore no further analysis beyond the tables included in this section was required to determine that possible simultaneous transmission scenarios would not exceed the SAR limit.

Table 12-22
Simultaneous Transmission Scenario with 5 GHz WLAN MIMO (Phablet)

Simult Tx	Configuration	PCS EVDO SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	GPRS 1900 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	UMTS 1750 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2			1	2	1+2			1	2	1+2
Phablet SAR	Back	0.871	1.111	1.982	Phablet SAR	Back	0.713	1.111	1.824	Phablet SAR	Back	1.130	1.111	2.241
	Front	0.658	1.016	1.674		Front	0.499	1.016	1.515		Front	1.431	1.016	2.447
	Top	-	2.194*	2.194		Top	-	2.194*	2.194		Top	-	2.194*	2.194
	Bottom	1.722	-	1.722		Bottom	0.950	-	0.950		Bottom	1.797	-	1.797
	Right	0.225	-	0.225		Right	0.095	-	0.095		Right	0.439	-	0.439
	Left	0.408	2.194	**2.602**		Left	0.160	2.194	**2.354**		Left	0.478	2.194	**2.672**

Simult Tx	Configuration	UMTS 1900 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	LTE Band 66 (AWS) SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	LTE Band 25 (PCS) SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2			1	2	1+2			1	2	1+2
Phablet SAR	Back	0.827	1.111	1.938	Phablet SAR	Back	1.183	1.111	2.294	Phablet SAR	Back	1.067	1.111	2.178
	Front	0.657	1.016	1.673		Front	1.256	1.016	2.272		Front	1.097	1.016	2.113
	Top	-	2.194*	2.194		Top	-	2.194*	2.194		Top	-	2.194*	2.194
	Bottom	1.198	-	1.198		Bottom	1.980	-	1.980		Bottom	1.603	-	1.603
	Right	0.235	-	0.235		Right	0.385	-	0.385		Right	0.453	-	0.453
	Left	0.368	2.194	**2.562**		Left	0.437	2.194	**2.631**		Left	0.397	2.194	**2.591**

Simult Tx	Configuration	LTE Band 30 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	LTE Band 41 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	LTE Band 7 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2			1	2	1+2			1	2	1+2
Phablet SAR	Back	2.038	1.111	**3.149**	Phablet SAR	Back	1.219	1.111	2.330	Phablet SAR	Back	2.037	1.111	**3.148**
	Front	1.601	1.016	2.617		Front	0.725	1.016	1.741		Front	1.400	1.016	2.416
	Top	-	2.194*	2.194		Top	-	2.194*	2.194		Top	-	2.194*	2.194
	Bottom	1.965	-	1.965		Bottom	0.938	-	0.938		Bottom	1.775	-	1.775
	Right	0.345	-	0.345		Right	-	-	-		Right	-	-	-
	Left	0.271	2.194	2.465		Left	0.452	2.194	**2.646**		Left	0.761	2.194	2.955

Simult Tx	Configuration	NR Band n66 (AWS) Antenna A SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	NR Band n25 (PCS) Antenna A SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	NR Band n30 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2			1	2	1+2			1	2	1+2
Phablet SAR	Back	1.488	1.111	2.599	Phablet SAR	Back	1.204	1.111	2.315	Phablet SAR	Back	2.039	1.111	**3.150**
	Front	1.686	1.016	2.702		Front	1.235	1.016	2.251		Front	1.706	1.016	2.722
	Top	-	2.194*	2.194		Top	-	2.194*	2.194		Top	-	2.194*	2.194
	Bottom	2.076	-	2.076		Bottom	1.691	-	1.691		Bottom	2.180	-	2.180
	Right	0.571	-	0.571		Right	0.349	-	0.349		Right	0.334	-	0.334
	Left	0.625	2.194	**2.819**		Left	0.420	2.194	**2.614**		Left	0.239	2.194	2.433

Simult Tx	Configuration	NR Band n41 Antenna B SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	NR Band n77 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2			1	2	1+2
Phablet SAR	Back	0.381	1.111	1.492	Phablet SAR	Back	-	1.111	1.111
	Front	0.304	1.016	1.320		Front	-	1.016	1.016
	Top	-	2.194*	2.194		Top	-	2.194*	2.194
	Bottom	0.386	-	0.386		Bottom	-	-	-
	Right	-	-	-		Right	2.640	-	**2.640**
	Left	0.384	2.194	**2.578**		Left	-	2.194	2.194

Table 12-23
Simultaneous Transmission Scenario with 6 GHz WLAN MIMO (Phablet)

Configuration	Mode	2G/3G/4G/5G SAR (W/kg)	6 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2
Phablet SAR	PCS EVDO	1.722	0.322	2.044
	GPRS 1900	0.950	0.322	1.272
	UMTS 1750	1.797	0.322	2.119
	UMTS 1900	1.198	0.322	1.520
	LTE Band 66 (AWS)	1.980	0.322	2.302
	LTE Band 25 (PCS)	1.603	0.322	1.925
	LTE Band 30	2.038	0.322	2.360
	LTE Band 7	2.037	0.322	2.359
	LTE Band 41	1.219	0.322	1.541
	NR Band n66 (AWS) Antenna A	2.076	0.322	2.398
	NR Band n25 (PCS) Antenna A	1.691	0.322	2.013
	NR Band n30	2.180	0.322	2.502
	NR Band n41 Antenna B	0.386	0.322	0.708
	NR Band n77	2.640	0.322	**2.962**

12.7 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.

13 SAR MEASUREMENT VARIABILITY

13.1 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 13-1
Body SAR Measurement Variability Results

BODY VARIABILITY RESULTS														
Band	FREQUENCY		Mode	Service	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)	
1750	PCC: 1770.00	PCC: 132572	ULCA 66C: LTE Band 66 (AWS), 20 MHz Bandwidth	PCC: QPSK, 50 RB, 0 RB Offset	bottom	10 mm	1.070	1.030	1.04	N/A	N/A	N/A	N/A
	SCC: 1750.20	PCC: 132374		SCC: QPSK, 50 RB, 50 RB Offset									
1900	1882.50	376500	NR Band n25 (PCS), 40 MHz Bandwidth	DFT-S-OFDM, 216 RB, 0 RB Offset	bottom	10 mm	1.020	1.000	1.02	N/A	N/A	N/A	N/A
2300	2310.00	27710	LTE Band 30, 10 MHz Bandwidth	QPSK, 50 RB, 0 RB Offset	bottom	10 mm	0.886	0.841	1.05	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						

Table 13-2
Phablet SAR Measurement Variability Results

PHABLET VARIABILITY RESULTS													
Band	FREQUENCY		Mode	Service	Side	Spacing	Measured SAR (10g)	1st Repeated SAR (10g)	Ratio	2nd Repeated SAR (10g)	Ratio	3rd Repeated SAR (10g)	Ratio
	MHz	Ch.					(W/kg)	(W/kg)		(W/kg)		(W/kg)	
1750	1745.00	349000	NR Band n66 (AWS), 40 MHz Bandwidth	DFT-S-OFDM, 108 RB, 0 RB Offset	bottom	0 mm	2.010	1.970	1.02	N/A	N/A	N/A	N/A
3700	3750.00	650000	NR Band n77, 100 MHz Bandwidth	DFT-S-OFDM, 135 RB, 69 RB Offset	right	0 mm	2.220	2.150	1.03	N/A	N/A	N/A	N/A
3900	3930.00	662000	NR Band n77, 100 MHz Bandwidth	DFT-S-OFDM, 1RB, 271 RB Offset	right	0 mm	2.180	2.140	1.02	N/A	N/A	N/A	N/A
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							Phablet 4.0 W/kg (mW/g) averaged over 10 grams						

13.2 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.

14 ADDITIONAL TESTING PER FCC GUIDANCE

14.1 Tuner Testing

Per April 2019 TCB Workshop Notes, the following test procedures were followed to demonstrate that the SAR results in Section 11 represented the appropriate SAR test conditions. For bands with dynamic tuning implemented, SAR was measured according to the required FCC SAR test procedures with the dynamic tuner active to allow the device to automatically tune to the antenna state for the respective RF exposure test configurations. Per FCC Guidance, during NR testing the device was configured with the tuner state selected by the device in LTE mode with auto-tune active at the same frequency. Additional single point SAR time-sweep measurements were evaluated for other tuner states to determine that the other tuner configurations would result in equivalent or lower SAR values. The additional tuner hardware has no influence on the antenna characteristics, other than impedance matching.

To evaluate all the tuner states, the 120 tuner states were divided among the aggregate band, mode and exposure combinations. Single point time-sweep measurements were performed at the peak SAR location determined by the zoom scan of the configuration with the highest reported SAR for each combination. The tuner state was able to be established remotely so that the device was not moved for the entire series of single point SAR for the tuner states in each combination. The SAR probe remained stationary at the same position throughout the entire series of single point measurements for each combination. When the single point SAR or 1g SAR was > 1.2 W/kg for a particular band/mode/exposure condition, point SAR measurements were made for all 120 states.

The operational description contains more information about the design and implementation of the dynamic antenna tuning.

Table 14-1
UMTS/CDMA Supplemental Head SAR Data

Supplemental Head SAR Data											
UMTS B5		UMTS B4		UMTS B2		CDMA BC10		CDMA BC0		CDMA BC1	
RMC		RMC		RMC		CDMA		CDMA		EVDO Rev.A	
Test Position	Right Cheek	Test Position	Left Cheek	Test Position	Left Cheek	Test Position	Right Cheek	Test Position	Right Cheek	Test Position	Left Cheek
Frequency (MHz)	836.60	Frequency (MHz)	1732.40	Frequency (MHz)	1880.00	Frequency (MHz)	820.10	Frequency (MHz)	836.52	Frequency (MHz)	1880.00
Channel	4183	Channel	1412	Channel	9400	Channel	564	Channel	384	Channel	600
Measured 1g SAR (W/kg)	0.174	Measured 1g SAR (W/kg)	0.139	Measured 1g SAR (W/kg)	0.080	Measured 1g SAR (W/kg)	0.174	Measured 1g SAR (W/kg)	0.179	Measured 1g SAR (W/kg)	0.077
Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)	
Auto-tune (State 26)	0.226	Auto-tune (State 57)	0.204	Auto-tune (State 21)	0.116	Auto-tune (State 26)	0.231	Auto-tune (State 2)	0.217	Auto-tune (State 74)	0.115
Default (State 0)	0.211	Default (State 16)	0.186	Default (State 22)	0.118	Default (State 0)	0.214	Default (State 0)	0.193	Default (State 22)	0.107
State 0	0.211	State 10	0.125	State 3	0.107	State 0	0.214	State 0	0.193	State 12	0.048
State 20	0.123	State 16	0.186	State 21	0.113	State 11	0.057	State 2	0.211	State 22	0.107
State 26	0.228	State 27	0.135	State 22	0.118	State 26	0.228	State 24	0.017	State 31	0.071
State 43	0.131	State 57	0.206	State 60	0.096	State 39	0.080	State 50	0.023	State 74	0.104
State 78	0.154	State 64	0.095	State 83	0.085	State 62	0.035	State 77	0.001	State 80	0.084
State 103	0.003	State 113	0.185	State 106	0.102	State 87	0.038	State 108	0.193	State 118	0.061

Table 14-2
LTE Supplemental Head SAR Data

Supplemental Head SAR Data													
LTE B71		LTE B12		LTE B13		LTE B14		LTE B5		LTE B26		LTE B66/4		LTE B25/2	
QPSK, 20 MHz Bandwidth, 1 RB, 50 RB Offset		QPSK, 10 MHz Bandwidth, 1 RB, 0 RB Offset		QPSK, 10 MHz Bandwidth, 1 RB, 0 RB Offset		QPSK, 10 MHz Bandwidth, 1 RB, 0 RB Offset		QPSK, 10 MHz Bandwidth, 1 RB, 49 RB Offset		QPSK, 15 MHz Bandwidth, 1 RB, 0 RB Offset		QPSK, 20 MHz Bandwidth, 1 RB, 50 RB Offset		QPSK, 20 MHz Bandwidth, 1 RB, 50 RB Offset	
Test Position	Right Cheek	Test Position	Right Cheek	Test Position	Right Cheek	Test Position	Right Cheek	Test Position	Right Cheek	Test Position	Right Cheek	Test Position	Left Cheek	Test Position	Left Cheek
Frequency (MHz)	680.50	Frequency (MHz)	707.50	Frequency (MHz)	782.00	Frequency (MHz)	793.00	Frequency (MHz)	836.50	Frequency (MHz)	831.50	Frequency (MHz)	1720.00	Frequency (MHz)	1860.00
Channel	133297	Channel	23095	Channel	23230	Channel	23330	Channel	20525	Channel	26865	Channel	132072	Channel	26140
Measured 1g SAR (W/kg)	0.133	Measured 1g SAR (W/kg)	0.151	Measured 1g SAR (W/kg)	0.175	Measured 1g SAR (W/kg)	0.168	Measured 1g SAR (W/kg)	0.172	Measured 1g SAR (W/kg)	0.166	Measured 1g SAR (W/kg)	0.139	Measured 1g SAR (W/kg)	0.135
Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)	
Auto-tune (State 0)	0.176	Auto-tune (State 0)	0.183	Auto-tune (State 108)	0.230	Auto-tune (State 108)	0.214	Auto-tune (State 26)	0.225	Auto-tune (State 28)	0.216	Auto-tune (State 0)	0.200	Auto-tune (State 74)	0.194
Default (State 0)	0.183	Default (State 0)	0.187	Default (State 0)	0.244	Default (State 0)	0.229	Default (State 0)	0.222	Default (State 0)	0.193	Default (State 16)	0.184	Default (State 22)	0.190
State 0	0.183	State 0	0.187	State 0	0.244	State 0	0.229	State 0	0.222	State 0	0.193	State 0	0.221	State 13	0.135
State 8	0.084	State 1	0.167	State 25	0.003	State 5	0.174	State 26	0.233	State 22	0.047	State 16	0.184	State 22	0.190
State 17	0.176	State 14	0.059	State 73	0.043	State 21	0.020	State 35	0.076	State 28	0.225	State 23	0.154	State 24	0.153
State 37	0.026	State 19	0.000	State 100	0.026	State 32	0.005	State 70	0.167	State 43	0.123	State 45	0.187	State 74	0.188
State 94	0.008	State 71	0.000	State 108	0.244	State 74	0.020	State 85	0.095	State 65	0.036	State 78	0.152	State 76	0.164
State 112	0.002	State 97	0.010	State 116	0.056	State 108	0.234	State 103	0.003	State 90	0.008	State 104	0.219	State 106	0.168

Table 14-3
NR Supplemental Head SAR Data

Supplemental Head SAR Data									
NR Band n71		NR Band n12		NR Band n5		NR Band n66		NR Band n25/2	
DFT-s-OFDM QPSK, 20 MHz Bandwidth, 50 RB, 28 RB Offset		DFT-s-OFDM QPSK, 15 MHz Bandwidth, 36 RB, 22 RB Offset		DFT-s-OFDM QPSK, 20 MHz Bandwidth, 1 RB, 104 RB Offset		DFT-s-OFDM QPSK, 40 MHz Bandwidth, 108 RB, 54 RB Offset		DFT-s-OFDM QPSK, 40 MHz Bandwidth, 1 RB, 214 RB Offset	
Test Position	Right Cheek	Test Position	Right Tilt	Test Position	Right Cheek	Test Position	Left Cheek	Test Position	Left Cheek
Frequency (MHz)	680.50	Frequency (MHz)	707.50	Frequency (MHz)	836.50	Frequency (MHz)	1745.00	Frequency (MHz)	1882.50
Channel	136100	Channel	141500	Channel	167300	Channel	349000	Channel	376500
Measured 1g SAR (W/kg)	0.133	Measured 1g SAR (W/kg)	0.137	Measured 1g SAR (W/kg)	0.192	Measured 1g SAR (W/kg)	0.148	Measured 1g SAR (W/kg)	0.105
Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)	
Auto-tune (State 0)	0.173	Auto-tune (State 0)	0.176	Auto-tune (State 26)	0.243	Auto-tune (State 0)	0.203	Auto-tune (State 74)	0.143
Default (State 0)	0.173	Default (State 0)	0.176	Default (State 0)	0.232	Default (State 16)	0.186	Default (State 22)	0.148
State 0	0.173	State 0	0.176	State 0	0.232	State 0	0.203	State 22	0.148
State 9	0.056	State 11	0.036	State 26	0.243	State 14	0.183	State 62	0.075
State 41	0.058	State 14	0.060	State 28	0.217	State 16	0.186	State 74	0.143
State 66	0.058	State 29	0.138	State 52	0.174	State 39	0.184	State 84	0.063
State 89	0.013	State 50	0.006	State 79	0.199	State 64	0.098	State 98	0.082
State 111	0.132	State 69	0.088	State 105	0.238	State 87	0.094	State 109	0.090

Table 14-4
UMTS/CDMA Supplemental Body SAR Data

Supplemental Body SAR Data												
UMTS B5		UMTS B4		UMTS B2		CDMA BC10		CDMA BC0		CDMA BC1	
RMC		RMC		RMC		EVDO Rev.0		EVDO Rev.0		EVDO Rev.0	
Test Position	Back	Test Position	Bottom	Test Position	Bottom	Test Position	Back	Test Position	Back	Test Position	Bottom
Spacing	10 mm	Spacing	10 mm	Spacing	10 mm	Spacing	10 mm	Spacing	10 mm	Spacing	10 mm
Frequency (MHz)	846.60	Frequency (MHz)	1752.60	Frequency (MHz)	1907.60	Frequency (MHz)	820.10	Frequency (MHz)	848.31	Frequency (MHz)	1908.75
Channel	4233	Channel	1513	Channel	9538	Channel	564	Channel	777	Channel	1175
Measured 1g SAR (W/kg)	0.591	Measured 1g SAR (W/kg)	0.896	Measured 1g SAR (W/kg)	0.952	Measured 1g SAR (W/kg)	0.506	Measured 1g SAR (W/kg)	0.560	Measured 1g SAR (W/kg)	0.977
Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)	
Auto-tune (State 26)	0.961	Auto-tune (State 59)	1.397	Auto-tune (State 21)	1.580	Auto-tune (State 26)	0.837	Auto-tune (State 26)	0.900	Auto-tune (State 21)	1.576
Default (State 0)	0.851	Default (State 16)	1.067	Default (State 22)	1.588	Default (State 0)	0.731	Default (State 0)	0.794	Default (State 22)	1.576
State 0	0.851	State 0	1.446	State 0	1.533	State 0	0.731	State 0	0.794	State 0	1.497
State 3	0.950	State 1	1.457	State 1	1.507	State 26	0.808	State 26	0.884	State 1	1.467
State 20	0.569	State 2	1.448	State 2	1.515	State 80	0.506	State 51	0.030	State 2	1.475
State 26	0.951	State 3	1.449	State 3	1.505	State 95	0.445	State 83	0.473	State 3	1.468
State 38	0.102	State 4	1.433	State 4	1.487	State 107	0.522	State 102	0.025	State 4	1.436
State 57	0.566	State 5	1.452	State 5	1.480	State 114	0.138	State 118	0.144	State 5	1.441
		State 6	1.422	State 6	1.422					State 6	1.394
		State 7	1.407	State 7	1.381					State 7	1.348
		State 8	1.366	State 8	1.316					State 8	1.286
		State 9	1.286	State 9	1.194					State 9	1.158
		State 10	1.197	State 10	1.084					State 10	1.057
		State 11	1.065	State 11	0.933					State 11	0.908
		State 12	0.847	State 12	0.714					State 12	0.693
		State 13	1.008	State 13	1.254					State 13	1.254
		State 14	1.039	State 14	1.327					State 14	1.316
		State 15	1.054	State 15	1.335					State 15	1.337
		State 16	1.059	State 16	1.362					State 16	1.354
		State 17	1.071	State 17	1.391					State 17	1.393
		State 18	1.069	State 18	1.392					State 18	1.388
		State 19	1.098	State 19	1.466					State 19	1.462
		State 20	1.111	State 20	1.511					State 20	1.510
		State 21	1.116	State 21	1.580					State 21	1.576
		State 22	1.093	State 22	1.588					State 22	1.576
		State 23	1.041	State 23	1.528					State 23	1.490
		State 24	0.931	State 24	1.348					State 24	1.322
		State 25	0.720	State 25	0.985					State 25	0.960
		State 26	0.995	State 26	1.000					State 26	0.996
		State 27	0.989	State 27	0.946					State 27	0.939
		State 28	0.970	State 28	0.921					State 28	0.916
		State 29	0.970	State 29	0.897					State 29	0.894
		State 30	0.950	State 30	0.857					State 30	0.853
		State 31	0.957	State 31	0.862					State 31	0.851
		State 32	0.905	State 32	0.753					State 32	0.747
		State 33	0.868	State 33	0.693					State 33	0.687
		State 34	0.801	State 34	0.592					State 34	0.589
		State 35	0.701	State 35	0.470					State 35	0.463
		State 36	0.614	State 36	0.385					State 36	0.381
		State 37	0.507	State 37	0.294					State 37	0.289
		State 38	0.371	State 38	0.193					State 38	0.189
		State 39	1.293	State 39	1.309					State 39	1.291
		State 40	1.303	State 40	1.264					State 40	1.252
		State 41	1.299	State 41	1.255					State 41	1.252
		State 42	1.304	State 42	1.247					State 42	1.230
		State 43	1.298	State 43	1.229					State 43	1.218
		State 44	1.302	State 44	1.214					State 44	1.199
		State 45	1.296	State 45	1.162					State 45	1.148
		State 46	1.281	State 46	1.112					State 46	1.102
		State 47	1.251	State 47	1.039					State 47	1.025
		State 48	1.188	State 48	0.920					State 48	0.914
		State 49	1.118	State 49	0.831					State 49	0.820
		State 50	1.011	State 50	0.702					State 50	0.692
		State 51	0.794	State 51	0.523					State 51	0.514
		State 52	1.222	State 52	1.526					State 52	1.523
		State 53	1.282	State 53	1.527					State 53	1.525
		State 54	1.286	State 54	1.518					State 54	1.509
		State 55	1.291	State 55	1.514					State 55	1.506
		State 56	1.305	State 56	1.496					State 56	1.499
		State 57	1.309	State 57	1.497					State 57	1.508
		State 58	1.346	State 58	1.461					State 58	1.464
		State 59	1.372	State 59	1.442					State 59	1.417
		State 60	1.389	State 60	1.379					State 60	1.372
		State 61	1.375	State 61	1.271					State 61	1.258
		State 62	1.330	State 62	1.162					State 62	1.152
		State 63	1.210	State 63	1.011					State 63	1.012
		State 64	0.953	State 64	0.776					State 64	0.767
		State 65	0.710	State 65	1.091					State 65	1.108
		State 66	0.766	State 66	1.152					State 66	1.168
		State 67	0.780	State 67	1.173					State 67	1.184
		State 68	0.793	State 68	1.188					State 68	1.198
		State 69	0.822	State 69	1.224					State 69	1.235
		State 70	0.828	State 70	1.226					State 70	1.243
		State 71	0.907	State 71	1.310					State 71	1.331
		State 72	0.966	State 72	1.379					State 72	1.374
		State 73	1.050	State 73	1.479					State 73	1.477
		State 74	1.155	State 74	1.556					State 74	1.560
		State 75	1.203	State 75	1.557					State 75	1.562
		State 76	1.177	State 76	1.448					State 76	1.444
		State 77	0.936	State 77	1.093					State 77	1.091
		State 78	1.124	State 78	1.133					State 78	1.135
		State 79	1.181	State 79	1.103					State 79	1.091
		State 80	1.186	State 80	1.080					State 80	1.067
		State 81	1.173	State 81	1.060					State 81	1.063
		State 82	1.179	State 82	1.017					State 82	1.021
		State 83	1.192	State 83	1.027					State 83	1.017
		State 84	1.169	State 84	0.912					State 84	0.915
		State 85	1.147	State 85	0.835					State 85	0.832
		State 86	1.092	State 86	0.723					State 86	0.718
		State 87	0.958	State 87	0.572					State 87	0.564
		State 88	0.840	State 88	0.468					State 88	0.462
		State 89	0.673	State 89	0.350					State 89	0.350
		State 90	0.458	State 90	0.228					State 90	0.228
		State 91	1.088	State 91	1.325					State 91	1.327
		State 92	1.138	State 92	1.293					State 92	1.312
		State 93	1.148	State 93	1.289					State 93	1.297
		State 94	1.149	State 94	1.289					State 94	1.296
		State 95	1.167	State 95	1.280					State 95	1.280
		State 96	1.173	State 96	1.263					State 96	1.263
		State 97	1.207	State 97	1.219					State 97	1.222
		State 98	1.232	State 98	1.184					State 98	1.175
		State 99	1.253	State 99	1.118					State 99	1.110
		State 100	1.272	State 100	1.006					State 100	0.998
		State 101	1.233	State 101	0.914					State 101	0.901
		State 102	1.127	State 102	0.778					State 102	0.762
		State 103	0.909	State 103	0.584					State 103	0.576
		State 104	1.418	State 104	1.508					State 104	1.502
		State 105	0.982	State 105	0.983					State 105	0.991
		State 106	1.231	State 106	1.508					State 106	1.519
		State 107	1.112	State 107	1.119					State 107	1.111
		State 108	1.420	State 108	1.512					State 108	1.509
		State 109	0.987	State 109	0.976					State 109	0.980
		State 110	1.234	State 110	1.514					State 110	1.499
		State 111	1.110	State 111	1.110					State 111	1.108
		State 112	1.270	State 112	1.241					State 112	1.239
		State 113	1.271	State 113	1.282					State 113	1.275
		State 114	0.716	State 114	1.079					State 114	1.096
		State 115	1.078	State 115	1.315					State 115	1.311
		State 116	1.006	State 116	1.249					State 116	1.256
		State 117	1.270	State 117	1.282					State 117	1.275
		State 118	0.718	State 118	1.085					State 118	1.104
		State 119	1.088	State 119	1.315					State 119	1.296

Table 14-5
LTE Supplemental Body SAR Data

Supplemental Body SAR Data																
LTE B71		LTE B12		LTE B13		LTE B14		LTE B5		LTE B26		LTE B66/4		LTE B25/2		
QPSK, 20 MHz Bandwidth, 1 RB, 50 RB Offset		QPSK, 10 MHz Bandwidth, 1 RB, 0 RB Offset		QPSK, 10 MHz Bandwidth, 1 RB 0, RB Offset		QPSK, 10 MHz Bandwidth, 1 RB 0, RB Offset		QPSK, 10 MHz Bandwidth, 1 RB, 49 RB Offset		QPSK, 15 MHz Bandwidth, 1 RB, 0 RB Offset		QPSK, 20 MHz Bandwidth, 50 RB 25 RB Offset		QPSK, 20 MHz Bandwidth, 50 RB, 25 RB Offset	
Test Position	Back	Test Position	Back	Test Position	Back	Test Position	Back	Test Position	Back	Test Position	Back	Test Position	Bottom	Test Position	Bottom
Spacing	10 mm	Spacing	10 mm	Spacing	10 mm	Spacing	10 mm	Spacing	10 mm	Spacing	10 mm	Spacing	10 mm	Spacing	10 mm
Frequency (MHz)	680.50	Frequency (MHz)	707.50	Frequency (MHz)	782.00	Frequency (MHz)	793.00	Frequency (MHz)	836.50	Frequency (MHz)	831.50	Frequency (MHz)	1770.00	Frequency (MHz)	1882.50
Channel	133297	Channel	23095	Channel	23230	Channel	23330	Channel	20525	Channel	26865	Channel	132572	Channel	26365
Measured 1g SAR (W/kg)	0.330	Measured 1g SAR (W/kg)	0.361	Measured 1g SAR (W/kg)	0.473	Measured 1g SAR (W/kg)	0.553	Measured 1g SAR (W/kg)	0.567	Measured 1g SAR (W/kg)	0.474	Measured 1g SAR (W/kg)	1.030	Measured 1g SAR (W/kg)	1.010
Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)	
Auto-tune (State 0)	0.546	Auto-tune (State 0)	0.598	Auto-tune (State 0)	0.768	Auto-tune (State 0)	0.920	Auto-tune (State 26)	0.913	Auto-tune (State 26)	0.776	Auto-tune (State 108)	1.700	Auto-tune (State 22)	1.704
Default (State 0)	0.560	Default (State 0)	0.679	Default (State 0)	0.751	Default (State 0)	0.811	Default (State 0)	0.853	Default (State 0)	0.668	Default (State 16)	1.203	Default (State 22)	1.710
State 0	0.560	State 0	0.679	State 0	0.751	State 0	0.811	State 0	0.853	State 0	0.668	State 0	1.682	State 0	1.697
State 4	0.462	State 6	0.227	State 7	0.464	State 2	0.755	State 2	0.905	State 13	0.202	State 1	1.689	State 1	1.649
State 18	0.152	State 17	0.227	State 19	0.288	State 11	0.139	State 5	0.890	State 26	0.761	State 2	1.693	State 2	1.638
State 40	0.232	State 35	0.224	State 36	0.153	State 23	0.034	State 26	0.903	State 37	0.169	State 3	1.691	State 3	1.639
State 60	0.226	State 59	0.356	State 56	0.613	State 49	0.046	State 28	0.878	State 68	0.327	State 4	1.689	State 4	1.620
State 72	0.127	State 82	0.507	State 67	0.445	State 86	0.296	State 31	0.812	State 96	0.504	State 5	1.688	State 5	1.613
State 86	0.185	State 119	0.147	State 94	0.492	State 117	0.531	State 53	0.635	State 115	0.140	State 6	1.676	State 6	1.567
												State 7	1.671	State 7	1.525
												State 8	1.633	State 8	1.449
												State 9	1.557	State 9	1.315
												State 10	1.472	State 10	1.208
												State 11	1.326	State 11	1.033
												State 12	1.082	State 12	0.784
												State 13	1.155	State 13	1.298
												State 14	1.192	State 14	1.385
												State 15	1.200	State 15	1.409
												State 16	1.203	State 16	1.432
												State 17	1.224	State 17	1.475
												State 18	1.228	State 18	1.479
												State 19	1.265	State 19	1.573
												State 20	1.287	State 20	1.640
												State 21	1.310	State 21	1.696
												State 22	1.306	State 22	1.710
												State 23	1.268	State 23	1.629
												State 24	1.165	State 24	1.399
												State 25	0.950	State 25	0.978
												State 26	1.165	State 26	1.227
												State 27	1.171	State 27	1.149
												State 28	1.165	State 28	1.119
												State 29	1.157	State 29	1.093
												State 30	1.139	State 30	1.038
												State 31	1.143	State 31	1.037
												State 32	1.090	State 32	0.910
												State 33	1.048	State 33	0.824
												State 34	0.982	State 34	0.704
												State 35	0.873	State 35	0.555
												State 36	0.780	State 36	0.454
												State 37	0.654	State 37	0.344
												State 38	0.483	State 38	0.227
												State 39	1.516	State 39	1.448
												State 40	1.532	State 40	1.414
												State 41	1.531	State 41	1.411
												State 42	1.530	State 42	1.402
												State 43	1.527	State 43	1.385
												State 44	1.528	State 44	1.376
												State 45	1.525	State 45	1.329
												State 46	1.518	State 46	1.281
												State 47	1.492	State 47	1.208
												State 48	1.432	State 48	1.089
												State 49	1.366	State 49	0.986
												State 50	1.240	State 50	0.836
												State 51	1.020	State 51	0.632
												State 52	1.451	State 52	1.633
												State 53	1.502	State 53	1.634
												State 54	1.529	State 54	1.635
												State 55	1.537	State 55	1.638
												State 56	1.558	State 56	1.620
												State 57	1.561	State 57	1.619
												State 58	1.608	State 58	1.593
												State 59	1.646	State 59	1.569
												State 60	1.671	State 60	1.508
												State 61	1.666	State 61	1.393
												State 62	1.620	State 62	1.284
												State 63	1.492	State 63	1.107
												State 64	1.194	State 64	0.849
												State 65	0.809	State 65	1.107
												State 66	0.872	State 66	1.194
												State 67	0.889	State 67	1.217
												State 68	0.905	State 68	1.241
												State 69	0.940	State 69	1.287
												State 70	0.946	State 70	1.292
												State 71	1.036	State 71	1.400
												State 72	1.112	State 72	1.486
												State 73	1.218	State 73	1.602
												State 74	1.372	State 74	1.704
												State 75	1.456	State 75	1.693
												State 76	1.476	State 76	1.531
												State 77	1.233	State 77	1.103
												State 78	1.319	State 78	1.381
												State 79	1.404	State 79	1.318
												State 80	1.408	State 80	1.291
												State 81	1.411	State 81	1.264
												State 82	1.424	State 82	1.215
												State 83	1.432	State 83	1.208
												State 84	1.418	State 84	1.069
												State 85	1.403	State 85	0.973
												State 86	1.336	State 86	0.831
												State 87	1.192	State 87	0.655
												State 88	1.048	State 88	0.533
												State 89	0.840	State 89	0.399
												State 90	0.569	State 90	0.260
												State 91	1.256	State 91	1.438
												State 92	1.317	State 92	1.418
												State 93	1.328	State 93	1.413
												State 94	1.343	State 94	1.414
												State 95	1.362	State 95	1.396
												State 96	1.366	State 96	1.386
												State 97	1.421	State 97	1.352
												State 98	1.455	State 98	1.321
												State 99	1.497	State 99	1.262
												State 100	1.513	State 100	1.156
												State 101	1.490	State 101	1.055
												State 102	1.391	State 102	0.903
												State 103	1.135	State 103	0.689
												State 104	1.688	State 104	1.678
												State 105	1.155	State 105	1.223
												State 106	1.448	State 106	1.636
												State 107	1.310	State 107	1.369
												State 108	1.692	State 108	1.678
												State 109	1.158	State 109	1.218
												State 110	1.451	State 110	1.637
												State 111	1.308	State 111	1.354
												State 112	1.156	State 112	1.302
												State 113	1.511	State 113	1.450
												State 114	0.817	State 114	1.114
												State 115	1.249	State 115	1.429
												State 116	1.157	State 116	1.301
												State 117	1.510	State 117	1.446
												State 118	0.817	State 118	1.109
												State 119	1.250	State 119	1.422

Table 14-6
NR Supplemental Body SAR Data

Supplemental Body SAR Data										
NR Band n71		NR Band n12		NR Band n5		NR Band n66		NR Band n25/2	
DFT-s-OFDM QPSK, 20 MHz Bandwidth, 50 RB, 28 RB Offset		DFT-s-OFDM QPSK, 15 MHz Bandwidth, 1 RB, 40 RB Offset		DFT-s-OFDM QPSK, 20 MHz Bandwidth, 1 RB, 104 RB Offset		DFT-s-OFDM QPSK, 40 MHz Bandwidth, 216 RB, 0 RB Offset		DFT-s-OFDM QPSK, 40 MHz Bandwidth, 216 RB, 0 RB Offset	
Test Position	Back	Test Position	Back	Test Position	Back	Test Position	Bottom	Test Position	Bottom
Spacing	10 mm	Spacing	10 mm	Spacing	10 mm	Spacing	10 mm	Spacing	10 mm
Frequency (MHz)	680.50	Frequency (MHz)	707.50	Frequency (MHz)	836.50	Frequency (MHz)	1745.00	Frequency (MHz)	1882.50
Channel	136100	Channel	141500	Channel	167300	Channel	349000	Channel	376500
Measured 1g SAR (W/kg)	0.353	Measured 1g SAR (W/kg)	0.385	Measured 1g SAR (W/kg)	0.639	Measured 1g SAR (W/kg)	0.970	Measured 1g SAR (W/kg)	1.020
Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)	
Auto-tune (State 0)	0.596	Auto-tune (State 0)	0.643	Auto-tune (State 26)	1.046	Auto-tune (State 61)	1.675	Auto-tune (State 22)	1.661
Default (State 0)	0.596	Default (State 0)	0.643	Default (State 0)	1.002	Default (State 16)	1.373	Default (State 22)	1.661
State 0	0.596	State 0	0.643	State 0	1.002	State 0	1.741	State 0	1.667
State 8	0.263	State 8	0.324	State 9	0.448	State 1	1.757	State 1	1.663
State 32	0.340	State 26	0.607	State 26	1.046	State 2	1.755	State 2	1.660
State 47	0.083	State 58	0.449	State 42	0.707	State 3	1.753	State 3	1.647
State 67	0.241	State 93	0.288	State 75	0.062	State 4	1.746	State 4	1.645
State 92	0.240	State 102	0.019	State 99	0.320	State 5	1.743	State 5	1.606
State 113	0.248	State 113	0.281	State 115	0.329	State 6	1.717	State 6	1.563
						State 7	1.684	State 7	1.485
						State 8	1.627	State 8	1.376
						State 9	1.504	State 9	1.274
						State 10	1.400	State 10	1.109
						State 11	1.234	State 11	0.857
						State 12	0.973	State 12	1.318
						State 13	1.293	State 13	1.371
						State 14	1.336	State 14	1.407
						State 15	1.347	State 15	1.409
						State 16	1.373	State 16	1.442
						State 17	1.370	State 17	1.443
						State 18	1.372	State 18	1.535
						State 19	1.403	State 19	1.593
						State 20	1.426	State 20	1.643
						State 21	1.444	State 21	1.661
						State 22	1.404	State 22	1.661
						State 23	1.349	State 23	1.392
						State 24	1.196	State 24	1.027
						State 25	0.917	State 25	1.131
						State 26	1.212	State 26	1.085
						State 27	1.206	State 27	1.071
						State 28	1.191	State 28	1.052
						State 29	1.175	State 29	1.012
						State 30	1.150	State 30	1.011
						State 31	1.146	State 31	0.906
						State 32	1.081	State 32	0.843
						State 33	1.035	State 33	0.743
						State 34	0.948	State 34	0.605
						State 35	0.820	State 35	0.505
						State 36	0.719	State 36	0.391
						State 37	0.589	State 37	0.264
						State 38	0.432	State 38	1.453
						State 39	1.591	State 39	1.431
						State 40	1.591	State 40	1.430
						State 41	1.587	State 41	1.427
						State 42	1.589	State 42	1.415
						State 43	1.588	State 43	1.408
						State 44	1.587	State 44	1.370
						State 45	1.573	State 45	1.337
						State 46	1.555	State 46	1.274
						State 47	1.525	State 47	1.160
						State 48	1.424	State 48	1.066
						State 49	1.337	State 49	0.925
						State 50	1.183	State 50	0.706
						State 51	0.934	State 51	1.622
						State 52	1.581	State 52	1.629
						State 53	1.639	State 53	1.630
						State 54	1.654	State 54	1.631
						State 55	1.670	State 55	1.632
						State 56	1.694	State 56	1.629
						State 57	1.690	State 57	1.621
						State 58	1.729	State 58	1.609
						State 59	1.739	State 59	1.573
						State 60	1.747	State 60	1.492
						State 61	1.675	State 61	1.384
						State 62	1.603	State 62	1.217
						State 63	1.431	State 63	0.945
						State 64	1.098	State 64	1.098
						State 65	0.951	State 65	1.165
						State 66	1.032	State 66	1.188
						State 67	1.054	State 67	1.209
						State 68	1.072	State 68	1.252
						State 69	1.112	State 69	1.252
						State 70	1.119	State 70	1.355
						State 71	1.210	State 71	1.423
						State 72	1.290	State 72	1.541
						State 73	1.404	State 73	1.650
						State 74	1.523	State 74	1.663
						State 75	1.565	State 75	1.549
						State 76	1.514	State 76	1.165
						State 77	1.183	State 77	1.301
						State 78	1.384	State 78	1.296
						State 79	1.465	State 79	1.275
						State 80	1.461	State 80	1.254
						State 81	1.460	State 81	1.217
						State 82	1.463	State 82	1.216
						State 83	1.470	State 83	1.116
						State 84	1.443	State 84	1.043
						State 85	1.400	State 85	0.918
						State 86	1.307	State 86	0.743
						State 87	1.138	State 87	0.623
						State 88	0.984	State 88	0.475
						State 89	0.769	State 89	0.314
						State 90	0.513	State 90	1.438
						State 91	1.391	State 91	1.433
						State 92	1.432	State 92	1.433
						State 93	1.449	State 93	1.433
						State 94	1.461	State 94	1.429
						State 95	1.487	State 95	1.420
						State 96	1.493	State 96	1.405
						State 97	1.527	State 97	1.383
						State 98	1.555	State 98	1.344
						State 99	1.573	State 99	1.247
						State 100	1.552	State 100	1.154
						State 101	1.491	State 101	1.017
						State 102	1.346	State 102	0.782
						State 103	1.054	State 103	1.658
						State 104	1.773	State 104	1.134
						State 105	1.219	State 105	1.620
						State 106	1.572	State 106	1.289
						State 107	1.376	State 107	1.676
						State 108	1.767	State 108	1.126
						State 109	1.217	State 109	1.617
						State 110	1.577	State 110	1.289
						State 111	1.371	State 111	1.329
						State 112	1.302	State 112	1.457
						State 113	1.599	State 113	1.102
						State 114	0.962	State 114	1.428
						State 115	1.382	State 115	1.328
						State 116	1.305	State 116	1.457
						State 117	1.597	State 117	1.106
						State 118	0.960	State 118	1.422
						State 119	1.382	State 119	1.422

14.1 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 14-7
LTE Band 41 Head Linearity Data

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	25.0	27.5
Measured Output Power (dBm)	23.70	26.16
Measured SAR (W/kg)	0.042	0.052
Measured Power (mW)	234.42	413.05
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	148.39	178.85
% deviation from expected linearity		2.78%

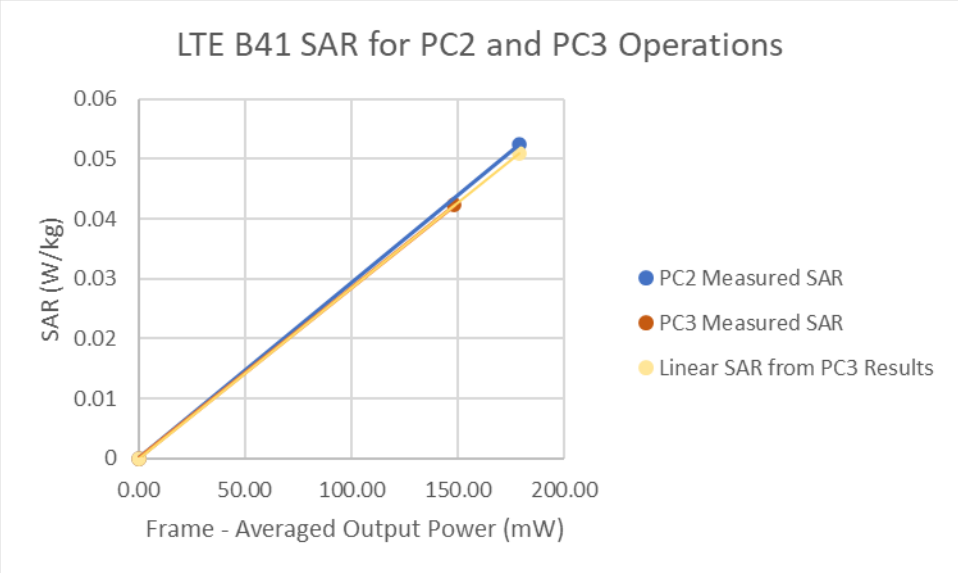


Figure 14-1
LTE Band 41 Head Linearity

Table 14-8
LTE Band 41 ULCA Head Linearity Data

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	25.0	27.5
Measured Output Power (dBm)	24.60	26.00
Measured SAR (W/kg)	0.052	0.051
Measured Power (mW)	288.40	398.11
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	182.56	172.38
% deviation from expected linearity		5.70%

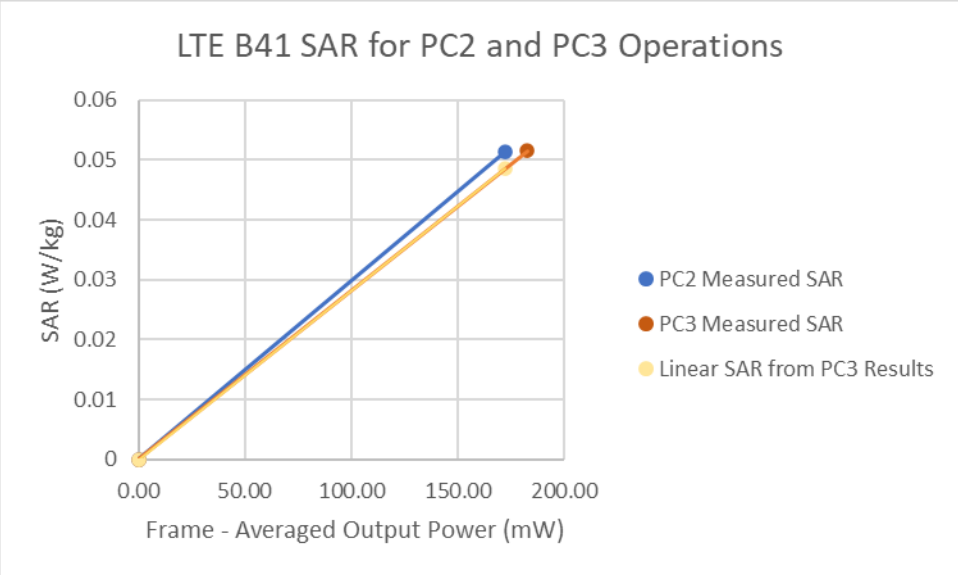


Figure 14-2
LTE Band 41 ULCA Head Linearity

Table 14-9
LTE Band 41 Body-Worn Linearity Data

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	25.0	27.5
Measured Output Power (dBm)	23.70	26.16
Measured SAR (W/kg)	0.282	0.313
Measured Power (mW)	234.42	413.05
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	148.39	178.85
% deviation from expected linearity		-7.91%

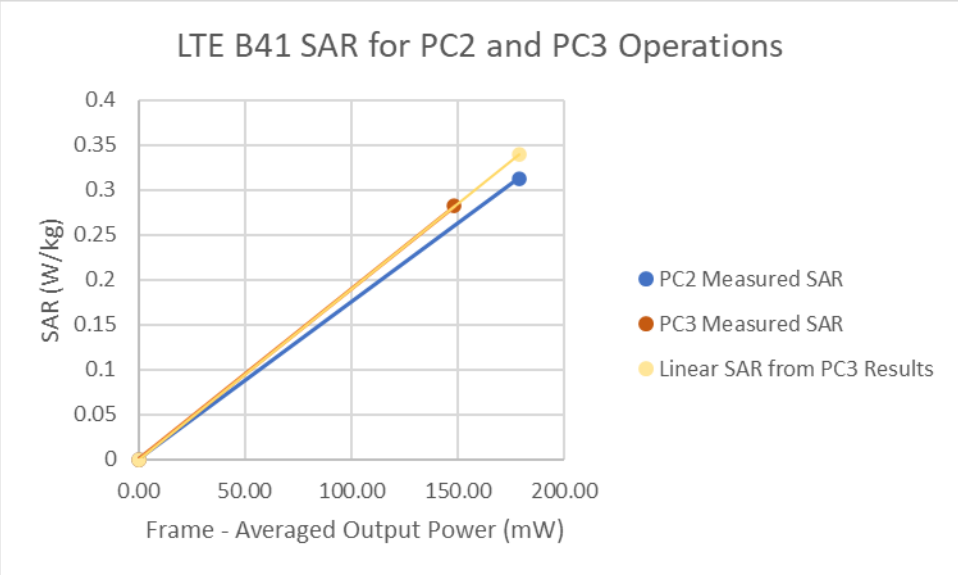


Figure 14-3
LTE Band 41 Body-Worn Linearity

Table 14-10
LTE Band 41 ULCA Body-Worn Linearity Data

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	25.0	27.5
Measured Output Power (dBm)	24.60	26.00
Measured SAR (W/kg)	0.361	0.313
Measured Power (mW)	288.40	398.11
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	182.56	172.38
% deviation from expected linearity		-8.18%

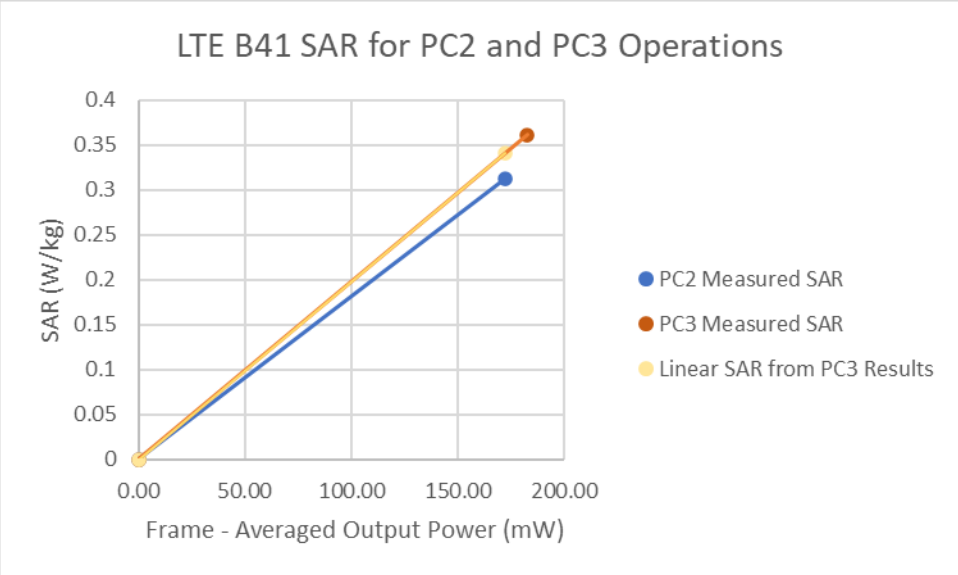


Figure 14-4
LTE Band 41 ULCA Body-Worn Linearity

Table 14-11
LTE Band 41 Hotspot Linearity Data

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	22.0	23.6
Measured Output Power (dBm)	21.57	23.54
Measured SAR (W/kg)	0.465	0.459
Measured Power (mW)	143.55	225.94
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	90.87	97.83
% deviation from expected linearity		-8.32%

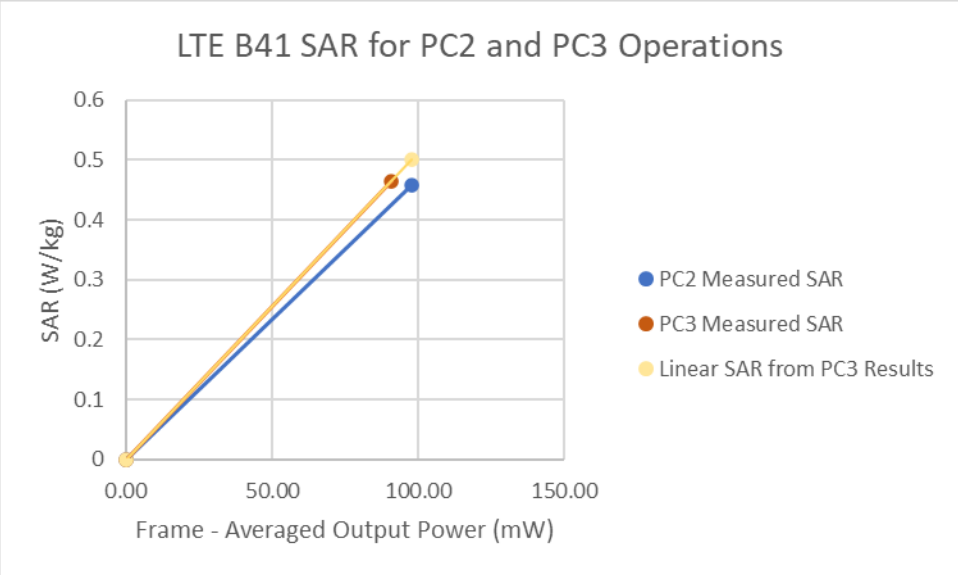


Figure 14-5
LTE Band 41 Hotspot Linearity

Table 14-12
LTE Band 41 ULCA Hotspot Linearity Data

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	22.0	23.6
Measured Output Power (dBm)	21.65	23.60
Measured SAR (W/kg)	0.451	0.459
Measured Power (mW)	146.22	229.09
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	92.56	99.19
% deviation from expected linearity		-5.04%

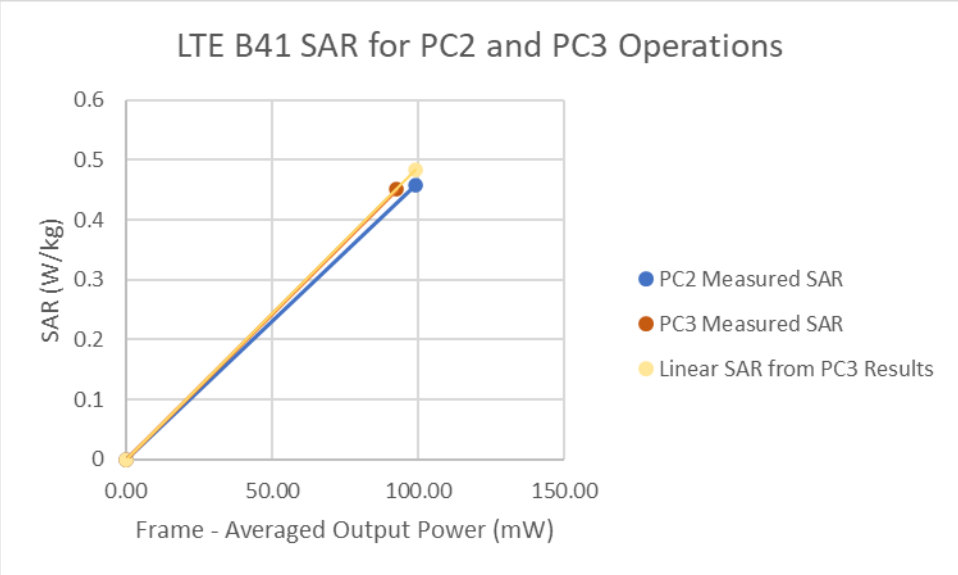


Figure 14-6
LTE Band 41 ULCA Hotspot Linearity

Table 14-13
LTE Band 41 Phablet Linearity Data

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	23.0	24.6
Measured Output Power (dBm)	22.85	24.30
Measured SAR (W/kg)	1.160	1.130
Measured Power (mW)	192.75	269.15
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	122.01	116.54
% deviation from expected linearity		1.98%

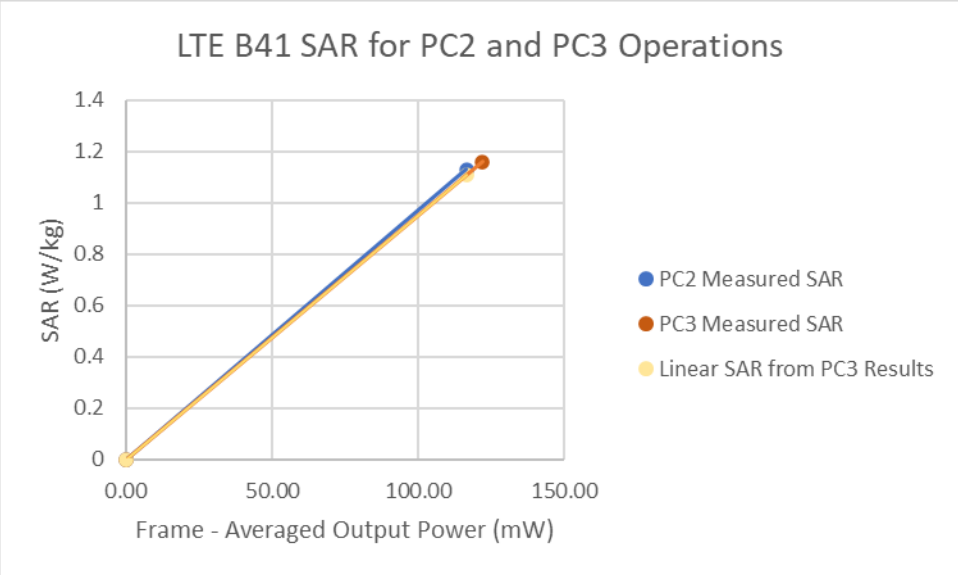


Figure 14-7
LTE Band 41 Phablet Linearity

Table 14-14
LTE Band 41 ULCA Phablet Linearity Data

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	23.0	24.6
Measured Output Power (dBm)	22.80	24.31
Measured SAR (W/kg)	1.120	1.140
Measured Power (mW)	190.55	269.77
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	120.62	116.81
% deviation from expected linearity		5.10%

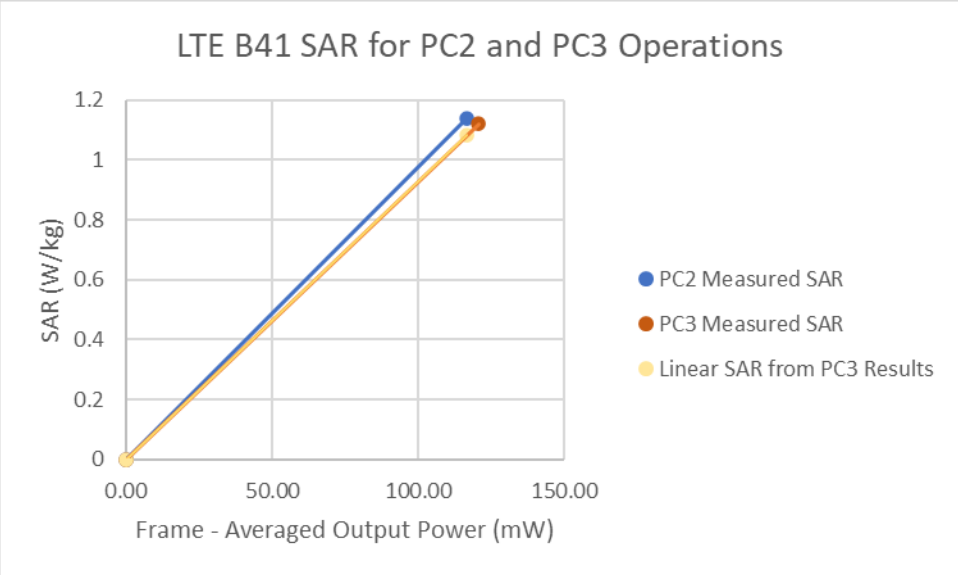


Figure 14-8
LTE Band 41 ULCA Phablet Linearity

15 EQUIPMENT LIST

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
Agilent	8594A	(9kHz-2.9GHz) Spectrum Analyzer	N/A	N/A	N/A	3051A00187
Agilent	85033E	3.5mm Standard Calibration Kit	6/6/2020	Annual	6/6/2021	MY53402352
Agilent	E5515C	8960 Series 10 Wireless Communications Test Set	2/10/2020	Annual	2/10/2021	GB42230325
Agilent	E4438C	ESG Vector Signal Generator	3/8/2019	Biennial	3/8/2021	MY42082385
Agilent	E4438C	ESG Vector Signal Generator	9/8/2020	Biennial	9/8/2022	MY45090700
Agilent	N5182A	MXG Vector Signal Generator	2/19/2020	Annual	2/19/2021	MY47420651
Agilent	N5182A	MXG Vector Signal Generator	5/13/2020	Annual	5/13/2021	MY47420603
Agilent	8753ES	S-Parameter Network Analyzer	12/31/2019	Annual	12/31/2020	US39170122
Agilent	E5515C	Wireless Communications Test Set	1/14/2020	Triennial	1/14/2023	GB43304447
Agilent	E5515C	Wireless Communications Test Set	2/26/2020	Annual	2/26/2021	GB44400860
Agilent	N4010A	Wireless Connectivity Test Set	N/A	N/A	N/A	GB46170464
Agilent	N4010A	Wireless Connectivity Test Set	N/A	N/A	N/A	GB44450273
Amplifier Research	15S1G6	Amplifier	CBT	N/A	CBT	353468
Amplifier Research	15S1G6	Amplifier	CBT	N/A	CBT	433978
Anritsu	ML2495A	Power Meter	12/17/2019	Annual	12/17/2020	941001
Anritsu	ML2496A	Power Meter	3/23/2020	Annual	3/23/2021	1351001
Anritsu	MA2411B	Pulse Power Sensor	12/4/2019	Annual	12/4/2020	1126066
Anritsu	MA2411B	Pulse Power Sensor	9/22/2020	Annual	9/22/2021	1339008
Anritsu	MT8820C	Radio Communication Analyzer	9/17/2020	Annual	9/17/2021	6201300731
Anritsu	MT8821C	Radio Communication Analyzer	2/22/2020	Annual	2/22/2021	6261895213
Anritsu	MT8821C	Radio Communication Analyzer	9/11/2020	Annual	9/11/2021	6201524637
Anritsu	MA24106A	USB Power Sensor	12/9/2019	Annual	12/9/2020	1349503
Anritsu	MA24106A	USB Power Sensor	10/19/2020	Annual	10/19/2021	1344559
Anritsu	MT8862A	Wireless Connectivity Test Set	10/29/2020	Annual	10/29/2021	6261782395
COMTech	AR85729-5	Solid State Amplifier	CBT	N/A	CBT	M15SA00-009
COMTECH	AR85729-5/5759B	Solid State Amplifier	CBT	N/A	CBT	M3W1A00-1002
Control Company	4352	Long Stem Thermometer	6/26/2019	Biennial	6/26/2021	192282744
Control Company	4352	Long Stem Thermometer	5/16/2020	Biennial	5/16/2022	200294416
Control Company	4040	Therm./ Clock/ Humidity Monitor	2/17/2020	Biennial	2/17/2022	200113269
Control Company	4040	Therm./Clock/Humidity Monitor	6/29/2019	Biennial	6/29/2021	192291463
Insize	1108-150	Digital Caliper	1/17/2020	Biennial	1/17/2022	409193536
Keysight	772D	Dual Directional Coupler	CBT	N/A	CBT	MY52180215
Keysight Technologies	N6705B	DC Power Analyzer	4/27/2019	Biennial	4/27/2021	MY53004059
Keysight Technologies	N9020A	MXA Signal Analyzer	8/14/2020	Annual	8/14/2021	US46470561
Keysight Technologies	85033E	Standard Mechanical Calibration Kit (DC to 9GHz, 3.5mm)	9/1/2020	Annual	9/1/2021	MY53401181
MCL	BW-N6W5+	6dB Attenuator	CBT	N/A	CBT	1139
MiniCircuits	SLP-2400+	Low Pass Filter	CBT	N/A	CBT	R8979500903
MiniCircuits	VLF-6000+	Low Pass Filter	CBT	N/A	CBT	N/A
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
Narda	4014C-6	4 - 8 GHz SMA 6 dB Directional Coupler	CBT	N/A	CBT	N/A
Narda	4772-3	Attenuator (3dB)	CBT	N/A	CBT	9406
Narda	BW-S3W2	Attenuator (3dB)	CBT	N/A	CBT	120
Pasternack	PE2208-6	Bidirectional Coupler	CBT	N/A	CBT	N/A
Pasternack	PE2209-10	Bidirectional Coupler	CBT	N/A	CBT	N/A
Pasternack	NC-100	Torque Wrench	8/4/2020	Biennial	8/4/2022	N/A
Pasternack	NC-100	Torque Wrench	8/4/2020	Biennial	8/4/2022	N/A
Rohde & Schwarz	CMW500	Radio Communication Tester	3/27/2020	Annual	3/27/2021	128633
Rohde & Schwarz	CMW500	Radio Communication Tester	4/23/2020	Annual	4/23/2021	167283
Rohde & Schwarz	CMW500	Radio Communication Tester	11/5/2020	Annual	11/5/2021	112347
Rohde & Schwarz	ZNLE6	Vector Network Analyzer	9/29/2020	Annual	9/29/2021	101307
SPEAG	DAKS-3.5	Portable Dielectric Assessment Kit	8/12/2020	Annual	8/12/2021	1041
SPEAG	D750V3	750 MHz SAR Dipole	3/11/2020	Annual	3/11/2021	1054
SPEAG	D750V3	750 MHz SAR Dipole	10/19/2018	Triennial	10/19/2021	1161
SPEAG	D835V2	835 MHz SAR Dipole	3/13/2019	Biennial	3/13/2021	4d047
SPEAG	D835V2	835 MHz SAR Dipole	10/19/2018	Triennial	10/19/2021	4d133
SPEAG	D1765V2	1765 MHz SAR Dipole	5/23/2018	Triennial	5/23/2021	1008
SPEAG	D1750V2	1750 MHz SAR Dipole	5/12/2020	Annual	5/12/2021	1148
SPEAG	D1750V2	1750 MHz SAR Dipole	10/22/2018	Triennial	10/22/2021	1150
SPEAG	D1900V2	1900 MHz SAR Dipole	10/23/2018	Triennial	10/23/2021	5d080
SPEAG	D1900V2	1900 MHz SAR Dipole	2/21/2019	Biennial	2/21/2021	5d148
SPEAG	D1900V2	1900 MHz SAR Dipole	10/23/2018	Triennial	10/23/2021	5d149
SPEAG	D2300V2	2300 MHz SAR Dipole	8/13/2018	Triennial	8/13/2021	1073
SPEAG	D2450V2	2450 MHz SAR Dipole	9/9/2020	Annual	9/9/2021	797
SPEAG	D2450V2	2450 MHz SAR Dipole	8/16/2018	Triennial	8/16/2021	981
SPEAG	D2600V2	2600 MHz SAR Dipole	4/11/2018	Triennial	4/11/2021	1004
SPEAG	D2600V2	2600 MHz SAR Dipole	6/14/2019	Biennial	6/14/2021	1064
SPEAG	D3500V2	3500 MHz SAR Dipole	1/11/2018	Triennial	1/11/2021	1059
SPEAG	D3500V2	3500 MHz SAR Dipole	1/21/2020	Annual	1/21/2021	1097
SPEAG	D3700V2	3700 MHz SAR Dipole	1/11/2018	Triennial	1/11/2021	1018
SPEAG	D3700V2	3700 MHz SAR Dipole	1/21/2020	Annual	1/21/2021	1067
SPEAG	D3900V2	3900 MHz SAR Dipole	10/9/2020	Annual	10/9/2021	1056
SPEAG	D5GHzV2	5 GHz SAR Dipole	1/16/2018	Triennial	1/16/2021	1057
SPEAG	D5GHzV2	5 GHz SAR Dipole	8/10/2018	Triennial	8/10/2021	1237
SPEAG	DAE4	Dasy Data Acquisition Electronics	5/20/2020	Annual	5/20/2021	728
SPEAG	DAE4	Dasy Data Acquisition Electronics	8/12/2020	Annual	8/12/2021	1323
SPEAG	DAE4	Dasy Data Acquisition Electronics	6/18/2020	Annual	6/18/2021	1334
SPEAG	DAE4	Dasy Data Acquisition Electronics	3/12/2020	Annual	3/12/2021	1368
SPEAG	DAE4	Dasy Data Acquisition Electronics	4/15/2020	Annual	4/15/2021	1407
SPEAG	DAE4	Dasy Data Acquisition Electronics	8/11/2020	Annual	8/11/2021	1450
SPEAG	DAE4	Dasy Data Acquisition Electronics	1/13/2020	Annual	1/13/2021	1530
SPEAG	DAE4	Dasy Data Acquisition Electronics	12/5/2019	Annual	12/5/2020	1533
SPEAG	DAE4	Dasy Data Acquisition Electronics	1/13/2020	Annual	1/13/2021	1558
SPEAG	DAE4	Dasy Data Acquisition Electronics	5/14/2020	Annual	5/14/2021	1583
SPEAG	EX3DV4	SAR Probe	1/21/2020	Annual	1/21/2021	3589
SPEAG	EX3DV4	SAR Probe	7/31/2020	Annual	7/31/2021	7308
SPEAG	EX3DV4	SAR Probe	4/21/2020	Annual	4/21/2021	7357
SPEAG	EX3DV4	SAR Probe	6/23/2020	Annual	6/23/2021	7406
SPEAG	EX3DV4	SAR Probe	6/23/2020	Annual	6/23/2021	7409
SPEAG	EX3DV4	SAR Probe	1/21/2020	Annual	1/21/2021	7488
SPEAG	EX3DV4	SAR Probe	5/18/2020	Annual	5/18/2021	7538
SPEAG	EX3DV4	SAR Probe	10/20/2020	Annual	10/20/2021	7539
SPEAG	EX3DV4	SAR Probe	8/19/2020	Annual	8/19/2021	7547
SPEAG	EX3DV4	SAR Probe	12/11/2019	Annual	12/11/2020	7570
SPEAG	EX3DV4	SAR Probe	12/11/2019	Annual	12/11/2020	7571

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.

16 MEASUREMENT UNCERTAINTIES

a	c	d	e= f(d,k)	f	g	h = c x f/e	i = c x g/e	k
Uncertainty Component	Tol. (± %)	Prob. Dist.	Div.	c_i 1gm	c_i 10 gms	1gm u_i (± %)	10gms u_i (± %)	v_i
Measurement System								
Probe Calibration	6.55	N	1	1.0	1.0	6.6	6.6	∞
Axial Isotropy	0.25	N	1	0.7	0.7	0.2	0.2	∞
Hemishperical Isotropy	1.3	N	1	0.7	0.7	0.9	0.9	∞
Boundary Effect	2.0	R	1.73	1.0	1.0	1.2	1.2	∞
Linearity	0.3	N	1	1.0	1.0	0.3	0.3	∞
System Detection Limits	0.25	R	1.73	1.0	1.0	0.1	0.1	∞
Readout Electronics	0.3	N	1	1.0	1.0	0.3	0.3	∞
Response Time	0.8	R	1.73	1.0	1.0	0.5	0.5	∞
Integration Time	2.6	R	1.73	1.0	1.0	1.5	1.5	∞
RF Ambient Conditions - Noise	3.0	R	1.73	1.0	1.0	1.7	1.7	∞
RF Ambient Conditions - Reflections	3.0	R	1.73	1.0	1.0	1.7	1.7	∞
Probe Positioner Mechanical Tolerance	0.4	R	1.73	1.0	1.0	0.2	0.2	∞
Probe Positioning w/ respect to Phantom	6.7	R	1.73	1.0	1.0	3.9	3.9	∞
Extrapolation, Interpolation & Integration algorithms for Max. SAR Evaluation	4.0	R	1.73	1.0	1.0	2.3	2.3	∞
Test Sample Related								
Test Sample Positioning	2.7	N	1	1.0	1.0	2.7	2.7	35
Device Holder Uncertainty	1.67	N	1	1.0	1.0	1.7	1.7	5
Output Power Variation - SAR drift measurement	5.0	R	1.73	1.0	1.0	2.9	2.9	∞
SAR Scaling	0.0	R	1.73	1.0	1.0	0.0	0.0	∞
Phantom & Tissue Parameters								
Phantom Uncertainty (Shape & Thickness tolerances)	7.6	R	1.73	1.0	1.0	4.4	4.4	∞
Liquid Conductivity - measurement uncertainty	4.2	N	1	0.78	0.71	3.3	3.0	10
Liquid Permittivity - measurement uncertainty	4.1	N	1	0.23	0.26	1.0	1.1	10
Liquid Conductivity - Temperature Uncertainty	3.4	R	1.73	0.78	0.71	1.5	1.4	∞
Liquid Permittivity - Temperature Unceritainty	0.6	R	1.73	0.23	0.26	0.1	0.1	∞
Liquid Conductivity - deviation from target values	5.0	R	1.73	0.64	0.43	1.8	1.2	∞
Liquid Permittivity - deviation from target values	5.0	R	1.73	0.60	0.49	1.7	1.4	∞
Combined Standard Uncertainty (k=1)		RSS				11.5	11.3	60
Expanded Uncertainty (95% CONFIDENCE LEVEL)		k=2				23.0	22.6	

17 CONCLUSION

17.1 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]

18 REFERENCES

[1] Federal Communications Commission, ET Docket 93-62, Guidelines for Evaluating the Environmental Effects of Radiofrequency Radiation, Aug. 1996.

[2] ANSI/IEEE C95.1-2005, American National Standard safety levels with respect to human exposure to radio frequency electromagnetic fields, 3kHz to 300GHz, New York: IEEE, 2006.

[3] ANSI/IEEE C95.1-1992, American National Standard safety levels with respect to human exposure to radio frequency electromagnetic fields, 3kHz to 300GHz, New York: IEEE, Sept. 1992.

[4] ANSI/IEEE C95.3-2002, IEEE Recommended Practice for the Measurement of Potentially Hazardous Electromagnetic Fields - RF and Microwave, New York: IEEE, December 2002.

[5] IEEE Standards Coordinating Committee 39 –Standards Coordinating Committee 34 – IEEE Std. 1528-2013, IEEE Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques.

[6] NCRP, National Council on Radiation Protection and Measurements, Biological Effects and Exposure Criteria for RadioFrequency Electromagnetic Fields, NCRP Report No. 86, 1986. Reprinted Feb. 1995.

[7] T. Schmid, O. Egger, N. Kuster, Automated E-field scanning system for dosimetric assessments, IEEE Transaction on Microwave Theory and Techniques, vol. 44, Jan. 1996, pp. 105-113.

[8] K. Pokovic, T. Schmid, N. Kuster, Robust setup for precise calibration of E-field probes in tissue simulating liquids at mobile communications frequencies, ICECOM97, Oct. 1997, pp. 1 -124.

[9] K. Pokovic, T. Schmid, and N. Kuster, E-field Probe with improved isotropy in brain simulating liquids, Proceedings of the ELMAR, Zadar, Croatia, June 23-25, 1996, pp. 172-175.

[10] Schmid & Partner Engineering AG, Application Note: Data Storage and Evaluation, June 1998, p2.

[11] V. Hombach, K. Meier, M. Burkhardt, E. Kuhn, N. Kuster, The Dependence of EM Energy Absorption upon Human Modeling at 900 MHz, IEEE Transaction on Microwave Theory and Techniques, vol. 44 no. 10, Oct. 1996, pp. 1865-1873.

[12] N. Kuster and Q. Balzano, Energy absorption mechanism by biological bodies in the near field of dipole antennas above 300MHz, IEEE Transaction on Vehicular Technology, vol. 41, no. 1, Feb. 1992, pp. 17-23.

[13] G. Hartsgrove, A. Kraszewski, A. Surowiec, Simulated Biological Materials for Electromagnetic Radiation Absorption Studies, University of Ottawa, Bioelectromagnetics, Canada: 1987, pp. 29-36.

[14] Q. Balzano, O. Garay, T. Manning Jr., Electromagnetic Energy Exposure of Simulated Users of Portable Cellular Telephones, IEEE Transactions on Vehicular Technology, vol. 44, no.3, Aug. 1995.

[15] W. Gander, Computermathematick, Birkhaeuser, Basel, 1992.

[16] W.H. Press, S.A. Teukolsky, W.T. Vetterling, and B.P. Flannery, Numerical Recipes in C, The Art of Scientific Computing, Second edition, Cambridge University Press, 1992.

[17] N. Kuster, R. Kastle, T. Schmid, Dosimetric evaluation of mobile communications equipment with known precision, IEEE Transaction on Communications, vol. E80-B, no. 5, May 1997, pp. 645-652.

[18] CENELEC CLC/SC111B, European Prestandard (prENV 50166-2), Human Exposure to Electromagnetic Fields High-frequency: 10kHz-300GHz, Jan. 1995.

[19] Prof. Dr. Niels Kuster, ETH, Eidgenössische Technische Hoschschule Zürich, Dosimetric Evaluation of the Cellular Phone.

[20] IEC 62209-1, Measurement procedure for the assessment of specific absorption rate of human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices - Part 1: Devices used next to the ear (Frequency range of 300 MHz to 6 GHz), July 2016.

[21] Innovation, Science, Economic Development Canada RSS-102 Radio Frequency Exposure Compliance of Radiocommunication Apparatus (All Frequency Bands) Issue 5, March 2015.

[22] Health Canada Safety Code 6 Limits of Human Exposure to Radio Frequency Electromagnetic Fields in the Frequency Range from 3 kHz – 300 GHz, 2015

[23] FCC SAR Test Procedures for 2G-3G Devices, Mobile Hotspot and UMPC Devices KDB Publications 941225, D01-D07

[24] SAR Measurement Guidance for IEEE 802.11 Transmitters, KDB Publication 248227 D01

[25] FCC SAR Considerations for Handsets with Multiple Transmitters and Antennas, KDB Publications 648474 D03-D04

[26] FCC SAR Evaluation Considerations for Laptop, Notebook, Netbook and Tablet Computers, FCC KDB Publication 616217 D04

[27] FCC SAR Measurement and Reporting Requirements for 100MHz – 6 GHz, KDB Publications 865664 D01-D02

[28] FCC General RF Exposure Guidance and SAR Procedures for Dongles, KDB Publication 447498, D01-D02

[29] Anexo à Resolução No. 533, de 10 de Septembro de 2009.

[30] IEC 62209-2, Human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices - Human models, instrumentation, and procedures - Part 2: Procedure to determine the specific absorption rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz), Mar. 2010.