



SAR EVALUATION REPORT

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

Date of Testing:
09/12/21 - 11/08/21
Test Site/Location:
PCTEST Lab, Columbia, MD, USA
Document Serial No.:
1M2109080099-01 (Rev2).A3L

FCC ID: **A3LSMS901U**

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

DUT Type: Portable Handset
Application Type: Certification
FCC Rule Part(s): CFR §2.1093
Model(s): SM-S901U, SM-S901U1

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	GSM/GPRS/EDGE 850	824.20 - 848.80 MHz	0.14	0.19	0.45	N/A
PCE	GSM/GPRS/EDGE 1900	1850.20 - 1909.80 MHz	0.12	0.29	1.16	1.50
PCE	UMTS 850	825.40 - 846.60 MHz	0.34	0.38	0.55	N/A
PCE	UMTS 1755	1712.4 - 1752.6 MHz	0.23	1.09	1.13	2.47
PCE	UMTS 1900	1852.4 - 1907.6 MHz	0.26	1.02	1.04	1.75
PCE	LTE Band 71	665.5 - 695.5 MHz	0.16	0.29	0.41	N/A
PCE	LTE Band 12	699.7 - 715.3 MHz	0.23	0.32	0.52	N/A
PCE	LTE Band 13	779.5 - 784.5 MHz	0.24	0.38	0.55	N/A
PCE	LTE Band 14	790.5 - 795.5 MHz	0.27	0.36	0.50	N/A
PCE	LTE Band 28 (Call)	814.7 - 848.3 MHz	0.25	0.30	0.46	N/A
PCE	LTE Band 5 (Call)	824.7 - 845.3 MHz	0.35	0.34	0.62	N/A
PCE	LTE Band 66 (AWS)	1710.7 - 1779.3 MHz	0.33	1.15	1.18	1.74
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	0.30	1.01	1.25	2.06
PCE	LTE Band 2 (PCS)	1850.7 - 1914.3 MHz	N/A	N/A	N/A	N/A
PCE	LTE Band 30	2307.5 - 2312.5 MHz	0.10	0.37	0.72	2.80
PCE	LTE Band 7	2502.5 - 2567.5 MHz	< 0.1	0.27	0.51	2.47
PCE	LTE Band 48	3552.5 - 3649.2 MHz	0.76	0.14	0.49	N/A
PCE	LTE Band 41	2486.5 - 2687.5 MHz	0.13	0.36	0.30	2.19
PCE	LTE Band 38	2612.5 - 2617.5 MHz	N/A	N/A	N/A	N/A
PCE	NR Band n71	665.5 - 695.5 MHz	0.22	0.40	0.60	N/A
PCE	NR Band n12	701.5 - 713.5 MHz	0.20	0.44	0.66	N/A
PCE	NR Band n5 (Call)	628.5 - 645.5 MHz	0.34	0.45	0.73	N/A
PCE	NR Band n66 (AWS)	1712.5 - 1777.5 MHz	0.93	0.95	1.02	2.65
PCE	NR Band n25 (PCS)	1852.5 - 1912.5 MHz	0.84	0.86	1.20	2.41
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	0.96	0.72	1.08	2.91
PCE	NR Band n7	2502.5 - 2567.5 MHz	0.12	0.40	0.89	3.08
PCE	NR Band n41	2506.02 - 2679.98 MHz	1.03	0.19	0.39	1.99
PCE	NR Band n38	2675 - 2615 MHz	N/A	N/A	N/A	N/A
PCE	NR Band n77 DoD	3455.01 - 3544.98 MHz	0.69	0.10	0.38	2.50
PCE	NR Band n77	3705 - 3915 MHz	0.76	0.12	0.44	2.57
DTS	2.4 GHz WLAN	2412 - 2482 MHz	< 0.1	0.17	0.43	N/A
NI	U-NII-1	5180 - 5240 MHz	N/A	N/A	N/A	N/A
NI	U-NII-2A	5260 - 5320 MHz	0.28	0.15	N/A	2.05
NI	U-NII-2C	5930 - 5720 MHz	0.23	0.11	N/A	1.17
NI	U-NII-3	5745 - 5825 MHz	< 0.1	0.18	N/A	N/A
NI	U-NII-4	5845 - 5885 MHz	0.27	< 0.1	N/A	0.89
DS/DTSS	Bluetooth	2402 - 2480 MHz	0.22	< 0.1	< 0.1	N/A
Simultaneous SAR per KDB 690783 D01v01r03:			1.55	1.57	1.59	3.95

Note: This revised Test Report (S/N: 1M2109080099-01 (Rev2).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 Ortañez
President



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1 DEVICE UNDER TEST

1.1 Device Overview

Band & Mode	Operating Modes	Tx Frequency
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 - 1914.3 MHz
LTE Band 30	Voice/Data	2307.5 - 2312.3 MHz
LTE Band 7	Voice/Data	2502.5 - 2567.5 MHz
LTE Band 48	Voice/Data	3552.5 - 3649.2 MHz
LTE Band 41	Voice/Data	2498.5 - 2687.5 MHz
LTE Band 38	Voice/Data	2572.5 - 2617.5 MHz
NR Band n71	Voice/Data	665.5 - 695.5 MHz
NR Band n12	Voice/Data	701.5 - 713.5 MHz
NR Band n5 (Cell)	Voice/Data	826.5 - 846.5 MHz
NR Band n66 (AWS)	Voice/Data	1712.5 - 1777.5 MHz
NR Band n25 (PCS)	Voice/Data	1852.5 - 1912.5 MHz
NR Band n2 (PCS)	Voice/Data	1852.5 - 1907.5 MHz
NR Band n30	Voice/Data	2307.5 - 2312.5 MHz
NR Band n7	Voice/Data	2502.5 - 2567.5 MHz
NR Band n41	Voice/Data	2506.02 - 2679.99 MHz
NR Band n38	Voice/Data	2575 - 2615 MHz
NR Band n77 DoD	Voice/Data	3455.01 - 3544.98 MHz
NR Band n77	Voice/Data	3705 - 3975 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-4	Voice/Data	5845 - 5885 MHz
Bluetooth	Data	2402 - 2480 MHz
NFC Data	Data	13.56 MHz
NR Band n258	Data	24250 - 24450 MHz; 24750 - 25250 MHz
NR Band n260	Data	37000 - 40000 MHz
NR Band n261	Data	27500 - 28350 MHz

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1.2 Time-Averaging Algorithm for RF Exposure Compliance

This Device is enabled with the Qualcomm® Smart Transmit Gen2 feature. This feature performs 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).

The Smart Transmit algorithm maintains the time-averaged transmit power, in turn, time-averaged RF exposure of *SAR_design_target* or *PD_design_target*, below the predefined time-averaged power limit (i.e., P_{limit} for sub-6 radio, and *input.power.limit* for 5G mmW NR), for each characterized technology and band (see RF Exposure Part 0 Test Report, report SN can 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.

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Exposure Scenario			Body-Worn	Phablet Max	Phablet Reduced	Head	Hotspot	Earjack	Maximum Tune-Up Output Power*
Averaging Volume			1g	10g	10g	1g	1g	10g	
Spacing			15 mm	11, 8, 6, 0 mm	0 mm	0 mm	10 mm	0 mm	
DSI			0	0	1	2	3	4	
Technology/Band	Antenna	Antenna Group							Pmax
GSM 850	A	AG0	29.6		28.1	32.3	28.1	28.1	25.3
GSM 1900	A	AG0	26.2		18.3	29.9	18.3	18.3	22.1
UMTS 850	A	AG0	29.9		26.5	30.2	26.5	26.5	24.5
UMTS 1750	A	AG0	23.6		20.0	30.4	18.5	20.0	23.0
UMTS 1900	A	AG0	24.6		19.0	30.6	18.5	19.0	23.7
LTE Band 71	A	AG0	30.8		28.9	33.4	28.9	28.9	24.5
LTE Band 12	A	AG0	29.7		28.7	31.7	28.1	28.7	24.5
LTE Band 13	A	AG0	29.7		27.2	31.3	27.2	27.2	24.5
LTE Band 14	A	AG0	29.9		27.5	31.2	27.5	27.5	24.5
LTE Band 26 (Cell)	A	AG0	30.5		27.8	31.4	27.8	27.8	24.5
LTE Band 5 (Cell)	A	AG0	29.3		26.4	30.0	26.4	26.4	24.5
LTE Band 66/4 (AWS)	A	AG0	23.9		19.0	29.5	19.0	19.0	23.5
LTE Band 25/2 (PCS)	A	AG0	24.7		19.5	29.6	19.0	19.5	23.7
LTE Band 30	A	AG0	25.6		20.0	33.4	19.0	20.0	22.5
LTE Band 30	B	AG0	25.9		20.0	36.4	19.0	20.0	22.5
LTE Band 7	B	AG0	24.7		19.5	35.4	19.5	19.5	23.0
LTE Band 41/38 (PC3)	B	AG0	25.2		19.0	32.6	19.0	19.0	22.0
LTE Band 41 (PC2)	B	AG0	25.2		19.0	32.6	19.0	19.0	22.0
LTE Band 48	G	AG1	17.5		17.5	14.5	17.5	17.5	21.0
NR Band n71	A	AG0	27.4		27.6	32.1	27.6	27.6	24.5
NR Band n12	A	AG0	28.6		27.4	30.9	27.3	27.4	24.5
NR Band n5 (Cell)	A	AG0	29.0		28.7	30.2	26.9	28.7	24.5
NR Band n66 (AWS)	A	AG0	22.3		19.5	22.3	18.0	19.5	23.8
NR Band n66 (AWS)	F	AG1	20.0		20.0	17.5	20.0	20.0	23.5
NR Band n25/2 (PCS)	A	AG0	25.9		19.0	29.9	17.5	19.0	23.7
NR Band n25/2 (PCS)	F	AG1	21.0		21.0	19.5	21.0	21.0	24.0
NR Band n30	A	AG0	23.5		18.5	31.0	18.5	18.5	22.5
NR Band n30	B	AG0	26.6		18.5	34.8	18.5	18.5	22.5
NR Band n30	F	AG1	21.5		21.5	18.0	21.0	21.5	22.0
NR Band n7	B	AG0	21.5		19.5	21.5	18.5	19.5	23.0
NR Band n41 SRS 1 (PC3)	F	AG1	20.0		20.0	18.0	20.0	20.0	24.5
NR Band n41 SRS 1 (PC2)	F	AG1	20.0		20.0	18.0	20.0	20.0	26.5
NR Band n41 SRS 2 (PC3)	B	AG0	16.5		16.5	16.5	16.5	16.5	21.5
NR Band n41 SRS 2 (PC2)	B	AG0	16.5		16.5	16.5	16.5	16.5	23.0
NR Band n41 SRS 3 (PC3)	E	AG1	15.5		15.5	15.5	15.5	15.5	20.5
NR Band n41 SRS 3 (PC2)	E	AG1	15.5		15.5	15.5	15.5	15.5	22.0
NR Band n41 SRS 4 (PC3)	D	AG0	14.5		14.5	14.5	14.5	14.5	19.0
NR Band n41 SRS 4 (PC2)	D	AG0	14.5		14.5	14.5	14.5	14.5	20.5
NR Band n38	F	AG1	20.0		20.0	18.0	20.0	20.0	24.0
NR Band n77 DoD SRS 1 (PC3)	G	AG1	17.0		17.0	14.0	17.0	17.0	24.0
NR Band n77 DoD SRS 1 (PC2)	G	AG1	17.0		17.0	14.0	17.0	17.0	26.0
NR Band n77 DoD SRS 2 (PC3)	C	AG0	11.5		11.5	11.5	11.5	11.5	20.0
NR Band n77 DoD SRS 2 (PC2)	C	AG0	11.5		11.5	11.5	11.5	11.5	22.0
NR Band n77 DoD SRS 3 (PC3)	H	AG1	17.0		17.0	14.0	17.0	17.0	23.0
NR Band n77 DoD SRS 3 (PC2)	H	AG1	17.0		17.0	14.0	17.0	17.0	25.0
NR Band n77 DoD SRS 4 (PC3)	D	AG0	11.5		11.5	11.5	11.5	11.5	18.0
NR Band n77 DoD SRS 4 (PC2)	D	AG0	11.5		11.5	11.5	11.5	11.5	20.0
NR Band n77 SRS 1 (PC3)	G	AG1	17.0		17.0	14.0	17.0	17.0	24.0
NR Band n77 SRS 1 (PC2)	G	AG1	17.0		17.0	14.0	17.0	17.0	26.0
NR Band n77 SRS 2 (PC3)	C	AG0	11.5		11.5	11.5	11.5	11.5	20.0
NR Band n77 SRS 2 (PC2)	C	AG0	11.5		11.5	11.5	11.5	11.5	22.0
NR Band n77 SRS 3 (PC3)	H	AG1	17.0		17.0	14.0	17.0	17.0	23.0
NR Band n77 SRS 3 (PC2)	H	AG1	17.0		17.0	14.0	17.0	17.0	25.0
NR Band n77 SRS 4 (PC3)	D	AG0	11.5		11.5	11.5	11.5	11.5	18.0
NR Band n77 SRS 4 (PC2)	D	AG0	11.5		11.5	11.5	11.5	11.5	20.0

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*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/BT 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

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
Pmax	Max Allowed Power	33.0	33.0	32.5	30.5	28.5	28.0	26.0	24.0	23.0
	Nominal	32.0	32.0	31.5	29.5	27.5	27.0	25.0	23.0	22.0
DSI = 0 (Body-Worn or Phablet Max)	Max Allowed Power	33.0	33.0	32.5	30.5	28.5	28.0	26.0	24.0	23.0
	Nominal	32.0	32.0	31.5	29.5	27.5	27.0	25.0	23.0	22.0
DSI = 1 (Phablet Reduced)	Max Allowed Power	33.0	33.0	32.5	30.5	28.5	28.0	26.0	24.0	23.0
	Nominal	32.0	32.0	31.5	29.5	27.5	27.0	25.0	23.0	22.0
DSI = 2 (Head)	Max Allowed Power	33.0	33.0	32.5	30.5	28.5	28.0	26.0	24.0	23.0
	Nominal	32.0	32.0	31.5	29.5	27.5	27.0	25.0	23.0	22.0
DSI = 3 (Hotspot)	Max Allowed Power	N/A	33.0	32.5	30.5	28.5	28.0	26.0	24.0	23.0
	Nominal	N/A	32.0	31.5	29.5	27.5	27.0	25.0	23.0	22.0
DSI = 4 (Earjack)	Max Allowed Power	33.0	33.0	32.5	30.5	28.5	28.0	26.0	24.0	23.0
	Nominal	32.0	32.0	31.5	29.5	27.5	27.0	25.0	23.0	22.0
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
Pmax	Max Allowed Power	30.0	30.0	29.0	27.5	25.5	27.0	25.0	23.0	22.0
	Nominal	29.0	29.0	28.0	26.5	24.5	26.0	24.0	22.0	21.0
DSI = 0 (Body-Worn or Phablet Max)	Max Allowed Power	30.0	30.0	29.0	27.5	25.5	27.0	25.0	23.0	22.0
	Nominal	29.0	29.0	28.0	26.5	24.5	26.0	24.0	22.0	21.0
DSI = 1 (Phablet Reduced)	Max Allowed Power	28.5	28.5	25.5	23.7	22.5	27.0	25.0	23.0	22.0
	Nominal	27.5	27.5	24.5	22.7	21.5	26.0	24.0	22.0	21.0
DSI = 2 (Head)	Max Allowed Power	30.0	30.0	29.0	27.5	25.5	27.0	25.0	23.0	22.0
	Nominal	29.0	29.0	28.0	26.5	24.5	26.0	24.0	22.0	21.0
DSI = 3 (Hotspot)	Max Allowed Power	N/A	28.5	25.5	23.7	22.5	27.0	25.0	23.0	22.0
	Nominal	N/A	27.5	24.5	22.7	21.5	26.0	24.0	22.0	21.0
DSI = 4 (Earjack)	Max Allowed Power	28.5	28.5	25.5	23.7	22.5	27.0	25.0	23.0	22.0
	Nominal	27.5	27.5	24.5	22.7	21.5	26.0	24.0	22.0	21.0

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

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UMTS Band 5 (850 MHz)					
Power Level		Modulated Average Output Power			
		3GPP WCDMA Rel 99	3GPP HSDPA Rel 5	3GPP HSUPA Rel 6	3GPP DC-HSDPA Rel 8
Pmax	Max Allowed Power	25.5	24.5	24.5	24.5
	Nominal	24.5	23.5	23.5	23.5
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			
		3GPP WCDMA Rel 99	3GPP HSDPA Rel 5	3GPP HSUPA Rel 6	3GPP DC-HSDPA Rel 8
Pmax	Max Allowed Power	24.0	23.0	23.0	23.0
	Nominal	23.0	22.0	22.0	22.0
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	21.0	20.0	20.0	20.0
	Nominal	20.0	19.0	19.0	19.0
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	21.0	20.0	20.0	20.0
	Nominal	20.0	19.0	19.0	19.0
UMTS Band 2 (1900 MHz)					
Power Level		Modulated Average Output Power			
		3GPP WCDMA Rel 99	3GPP HSDPA Rel 5	3GPP HSUPA Rel 6	3GPP DC-HSDPA Rel 8
Pmax	Max Allowed Power	24.7	23.7	23.7	23.7
	Nominal	23.7	22.7	22.7	22.7
DSI = 0 (Body-Worn or Phablet Max)	Max Allowed Power	24.7	23.7	23.7	23.7
	Nominal	23.7	22.7	22.7	22.7
DSI = 1 (Phablet Reduced)	Max Allowed Power	20.0	19.0	19.0	19.0
	Nominal	19.0	18.0	18.0	18.0
DSI = 2 (Head)	Max Allowed Power	24.7	23.7	23.7	23.7
	Nominal	23.7	22.7	22.7	22.7
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	20.0	19.0	19.0	19.0
	Nominal	19.0	18.0	18.0	18.0

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Mode / Band	Antenna		Modulated Average Output Power (in dBm)					
			Pmax	DSI =0 (Body-Worn or Phablet Max)	DSI =1 (Phablet Reduced)	DSI =2 (Head)	DSI =3 (Hotspot)	DSI =4 (Earjack)
LTE Band 71	A	Max Allowed Power	25.5	25.5	25.5	25.5	25.5	25.5
		Nominal	24.5	24.5	24.5	24.5	24.5	24.5
LTE Band 12	A	Max Allowed Power	25.5	25.5	25.5	25.5	25.5	25.5
		Nominal	24.5	24.5	24.5	24.5	24.5	24.5
LTE Band 13	A	Max Allowed Power	25.5	25.5	25.5	25.5	25.5	25.5
		Nominal	24.5	24.5	24.5	24.5	24.5	24.5
LTE Band 14	A	Max Allowed Power	25.5	25.5	25.5	25.5	25.5	25.5
		Nominal	24.5	24.5	24.5	24.5	24.5	24.5
LTE Band 26 (Cell)	A	Max Allowed Power	25.5	25.5	25.5	25.5	25.5	25.5
		Nominal	24.5	24.5	24.5	24.5	24.5	24.5
LTE Band 5 (Cell)	A	Max Allowed Power	25.5	25.5	25.5	25.5	25.5	25.5
		Nominal	24.5	24.5	24.5	24.5	24.5	24.5
LTE Band 66 (AWS)	A	Max Allowed Power	24.5	24.5	20.0	24.5	20.0	20.0
		Nominal	23.5	23.5	19.0	23.5	19.0	19.0
LTE Band 4 (AWS)	A	Max Allowed Power	24.5	24.5	20.0	24.5	20.0	20.0
		Nominal	23.5	23.5	19.0	23.5	19.0	19.0
LTE Band 25 (PCS)	A	Max Allowed Power	24.7	24.7	20.5	24.7	20.0	20.5
		Nominal	23.7	23.7	19.5	23.7	19.0	19.5
LTE Band 2 (PCS)	A	Max Allowed Power	24.7	24.7	20.5	24.7	20.0	20.5
		Nominal	23.7	23.7	19.5	23.7	19.0	19.5
LTE Band 30	A	Max Allowed Power	23.5	23.5	21.0	23.5	20.0	21.0
		Nominal	22.5	22.5	20.0	22.5	19.0	20.0
LTE Band 30	B	Max Allowed Power	23.5	23.5	21.0	23.5	20.0	21.0
		Nominal	22.5	22.5	20.0	22.5	19.0	20.0
LTE Band 7	B	Max Allowed Power	24.0	24.0	20.5	24.0	20.5	20.5
		Nominal	23.0	23.0	19.5	23.0	19.5	19.5
LTE Band 41 (PC3)	B	Max Allowed Power	25.0	25.0	22.0	25.0	22.0	22.0
		Nominal	24.0	24.0	21.0	24.0	21.0	21.0
LTE Band 41 (PC2)	B	Max Allowed Power	26.7	26.7	23.7	26.7	23.7	23.7
		Nominal	25.7	25.7	22.7	25.7	22.7	22.7
LTE Band 38	B	Max Allowed Power	25.0	25.0	22.0	25.0	22.0	22.0
		Nominal	24.0	24.0	21.0	24.0	21.0	21.0
LTE Band 48	G	Max Allowed Power	24.0	20.5	20.5	17.5	20.5	20.5
		Nominal	23.0	19.5	19.5	16.5	19.5	19.5

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Mode / Band	Antenna		Modulated Average Output Power (in dBm)					
			Pmax	DSI =0 (Body-Worn or Phablet Max)	DSI =1 (Phablet Reduced)	DSI =2 (Head)	DSI =3 (Hotspot)	DSI =4 (Earjack)
NR Band n71	A	Max Allowed Power	25.5	25.5	25.5	25.5	25.5	25.5
		Nominal	24.5	24.5	24.5	24.5	24.5	24.5
NR Band n12	A	Max Allowed Power	25.5	25.5	25.5	25.5	25.5	25.5
		Nominal	24.5	24.5	24.5	24.5	24.5	24.5
NR Band n5 (Cell)	A	Max Allowed Power	25.5	25.5	25.5	25.5	25.5	25.5
		Nominal	24.5	24.5	24.5	24.5	24.5	24.5
NR Band n66 (AWS)	A	Max Allowed Power	24.8	23.3	20.5	23.3	19.0	20.5
		Nominal	23.8	22.3	19.5	22.3	18.0	19.5
NR Band n66 (AWS)	F	Max Allowed Power	24.5	21.0	21.0	18.5	21.0	21.0
		Nominal	23.5	20.0	20.0	17.5	20.0	20.0
NR Band n25 (PCS)	A	Max Allowed Power	24.7	24.7	20.0	24.7	18.5	20.0
		Nominal	23.7	23.7	19.0	23.7	17.5	19.0
NR Band n25 (PCS)	F	Max Allowed Power	25.0	22.0	22.0	20.5	22.0	22.0
		Nominal	24.0	21.0	21.0	19.5	21.0	21.0
NR Band n2 (PCS)	A	Max Allowed Power	24.7	24.7	20.0	24.7	18.5	20.0
		Nominal	23.7	23.7	19.0	23.7	17.5	19.0
NR Band n2 (PCS)	F	Max Allowed Power	25.0	22.0	22.0	20.5	22.0	22.0
		Nominal	24.0	21.0	21.0	19.5	21.0	21.0
NR Band n30	A	Max Allowed Power	23.5	23.5	19.5	23.5	19.5	19.5
		Nominal	22.5	22.5	18.5	22.5	18.5	18.5
NR Band n30	B	Max Allowed Power	23.5	23.5	19.5	23.5	19.5	19.5
		Nominal	22.5	22.5	18.5	22.5	18.5	18.5
NR Band n30	F	Max Allowed Power	23.0	22.5	22.5	19.0	22.0	22.5
		Nominal	22.0	21.5	21.5	18.0	21.0	21.5
NR Band n7	B	Max Allowed Power	24.0	22.5	20.5	22.5	19.5	20.5
		Nominal	23.0	21.5	19.5	21.5	18.5	19.5
NR Band n41 SRS 1 (PC3)	F	Max Allowed Power	25.5	21.0	21.0	19.0	21.0	21.0
		Nominal	24.5	20.0	20.0	18.0	20.0	20.0
NR Band n41 SRS 1 (PC2)	F	Max Allowed Power	27.5	21.0	21.0	19.0	21.0	21.0
		Nominal	26.5	20.0	20.0	18.0	20.0	20.0
NR Band n41 SRS 2 (PC3)	B	Max Allowed Power	22.5	17.5	17.5	17.5	17.5	17.5
		Nominal	21.5	16.5	16.5	16.5	16.5	16.5
NR Band n41 SRS 2 (PC2)	B	Max Allowed Power	24.0	17.5	17.5	17.5	17.5	17.5
		Nominal	23.0	16.5	16.5	16.5	16.5	16.5
NR Band n41 SRS 3 (PC3)	E	Max Allowed Power	21.5	16.5	16.5	16.5	16.5	16.5
		Nominal	20.5	15.5	15.5	15.5	15.5	15.5
NR Band n41 SRS 3 (PC2)	E	Max Allowed Power	23.0	16.5	16.5	16.5	16.5	16.5
		Nominal	22.0	15.5	15.5	15.5	15.5	15.5
NR Band n41 SRS 4 (PC3)	D	Max Allowed Power	20.0	15.5	15.5	15.5	15.5	15.5
		Nominal	19.0	14.5	14.5	14.5	14.5	14.5
NR Band n41 SRS 4 (PC2)	D	Max Allowed Power	21.5	15.5	15.5	15.5	15.5	15.5
		Nominal	20.5	14.5	14.5	14.5	14.5	14.5
NR Band n38	F	Max Allowed Power	25.0	21.0	21.0	19.0	21.0	21.0
		Nominal	24.0	20.0	20.0	18.0	20.0	20.0
NR Band n77 DoD SRS 1 (PC3)	G	Max Allowed Power	25.0	18.0	18.0	15.0	18.0	18.0
		Nominal	24.0	17.0	17.0	14.0	17.0	17.0
NR Band n77 DoD SRS 1 (PC2)	G	Max Allowed Power	27.0	18.0	18.0	15.0	18.0	18.0
		Nominal	26.0	17.0	17.0	14.0	17.0	17.0
NR Band n77 DoD SRS 2 (PC3)	C	Max Allowed Power	21.0	12.5	12.5	12.5	12.5	12.5
		Nominal	20.0	11.5	11.5	11.5	11.5	11.5
NR Band n77 DoD SRS 2 (PC2)	C	Max Allowed Power	23.0	12.5	12.5	12.5	12.5	12.5
		Nominal	22.0	11.5	11.5	11.5	11.5	11.5
NR Band n77 DoD SRS 3 (PC3)	H	Max Allowed Power	24.0	18.0	18.0	15.0	18.0	18.0
		Nominal	23.0	17.0	17.0	14.0	17.0	17.0
NR Band n77 DoD SRS 3 (PC2)	H	Max Allowed Power	26.0	18.0	18.0	15.0	18.0	18.0
		Nominal	25.0	17.0	17.0	14.0	17.0	17.0
NR Band n77 DoD SRS 4 (PC3)	D	Max Allowed Power	19.0	12.5	12.5	12.5	12.5	12.5
		Nominal	18.0	11.5	11.5	11.5	11.5	11.5
NR Band n77 DoD SRS 4 (PC2)	D	Max Allowed Power	21.0	12.5	12.5	12.5	12.5	12.5
		Nominal	20.0	11.5	11.5	11.5	11.5	11.5
NR Band n77 SRS 1 (PC3)	G	Max Allowed Power	25.0	18.0	18.0	15.0	18.0	18.0
		Nominal	24.0	17.0	17.0	14.0	17.0	17.0
NR Band n77 SRS 1 (PC2)	G	Max Allowed Power	27.0	18.0	18.0	15.0	18.0	18.0
		Nominal	26.0	17.0	17.0	14.0	17.0	17.0
NR Band n77 SRS 2 (PC3)	C	Max Allowed Power	21.0	12.5	12.5	12.5	12.5	12.5
		Nominal	20.0	11.5	11.5	11.5	11.5	11.5
NR Band n77 SRS 2 (PC2)	C	Max Allowed Power	23.0	12.5	12.5	12.5	12.5	12.5
		Nominal	22.0	11.5	11.5	11.5	11.5	11.5
NR Band n77 SRS 3 (PC3)	H	Max Allowed Power	24.0	18.0	18.0	15.0	18.0	18.0
		Nominal	23.0	17.0	17.0	14.0	17.0	17.0
NR Band n77 SRS 3 (PC2)	H	Max Allowed Power	26.0	18.0	18.0	15.0	18.0	18.0
		Nominal	25.0	17.0	17.0	14.0	17.0	17.0
NR Band n77 SRS 4 (PC3)	D	Max Allowed Power	19.0	12.5	12.5	12.5	12.5	12.5
		Nominal	18.0	11.5	11.5	11.5	11.5	11.5
NR Band n77 SRS 4 (PC2)	D	Max Allowed Power	21.0	12.5	12.5	12.5	12.5	12.5
		Nominal	20.0	11.5	11.5	11.5	11.5	11.5

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

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1.4.2 2.4 GHz Maximum SISO/MIMO WLAN Output Power

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

Mode	Band	IEEE 802.11 (in dBm)															
		SISO Antenna 1 & Antenna 2								MIMO							
		b		g		n		ax		b (CDD + STBC)		g (CDD + STBC)		n (CDD + STBC, SDM)		ax(SU) (CDD + STBC, SDM)	
		Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum
2.4 GHz WIFI	2.45 GHz	18.0	19.0	17.0	18.0	17.0	18.0	17.0	18.0	21.0	22.0	20.0	21.0	20.0	21.0	20.0	21.0
						Ch. 11 15.5	Ch. 11 16.5	Ch. 11 15.5	Ch. 11 16.5					Ch. 11 18.5	Ch. 11 19.5	Ch. 11 18.5	Ch. 11 19.5

1.4.3 2.4 GHz Reduced WLAN Output Powers

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

The below table is applicable in the following conditions:

- RCV Active
- Simultaneous conditions with 5 GHz WLAN and/or 5G NR
- RCV Active during simultaneous conditions with 5 GHz WLAN and/or 5G NR

Mode	Band	IEEE 802.11 (in dBm)															
		SISO Antenna 1 & Antenna 2								MIMO							
		b		g		n		ax		b (CDD + STBC)		g (CDD + STBC)		n (CDD + STBC, SDM)		ax(SU) (CDD + STBC, SDM)	
		Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum
2.4 GHz WIFI	2.45 GHz	14.0	15.0	14.0	15.0	14.0	15.0	14.0	15.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0

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1.4.4 5 GHz Maximum SISO/MIMO WLAN Output Power

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

Mode	Band	IEEE 802.11 (in dBm)								IEEE 802.11 (in dBm)							
		SISO								MIMO							
		Antenna 1 & Antenna 2															
		a		n		ac		ax (SU)		a (CDD + STBC)		n (CDD + STBC, SDM)		ac (CDD + STBC, SDM)		ax (SU) (CDD + STBC, SDM)	
		Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum
5 GHz WiFi (20MHz BW)	UNII-1	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	20.0	21.0	20.0	21.0	20.0	21.0	20.0	21.0
	UNII-2A	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	20.0	21.0	20.0	21.0	20.0	21.0	20.0	21.0
	UNII-2C	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	20.0	21.0	20.0	21.0	20.0	21.0	20.0	21.0
	UNII-3	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	20.0	21.0	20.0	21.0	20.0	21.0	20.0	21.0
	UNII-4	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	20.0	21.0	20.0	21.0	20.0	21.0	20.0	21.0
5 GHz WiFi (40MHz BW)	UNII-1			17.0	18.0	17.0	18.0	17.0	18.0			20.0	21.0	20.0	21.0	20.0	21.0
	UNII-2A			17.0	18.0	17.0	18.0	17.0	18.0			20.0	21.0	20.0	21.0	20.0	21.0
	UNII-2C			17.0	18.0	17.0	18.0	17.0	18.0			20.0	21.0	20.0	21.0	20.0	21.0
	UNII-3			17.0	18.0	17.0	18.0	17.0	18.0			20.0	21.0	20.0	21.0	20.0	21.0
	UNII-4			17.0	18.0	17.0	18.0	17.0	18.0			20.0	21.0	20.0	21.0	20.0	21.0
5 GHz WiFi (80MHz BW)	UNII-1					17.0	18.0	17.0	18.0					20.0	21.0	20.0	21.0
	UNII-2A					17.0	18.0	17.0	18.0					20.0	21.0	20.0	21.0
	UNII-2C					17.0	18.0	17.0	18.0					20.0	21.0	20.0	21.0
	UNII-3					17.0	18.0	17.0	18.0					20.0	21.0	20.0	21.0
	UNII-4					17.0	18.0	17.0	18.0					20.0	21.0	20.0	21.0

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1.4.5 5 GHz Reduced WLAN Output Powers

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

The below table is applicable in the following conditions:

- Simultaneous conditions with 2.4 GHz WLAN and 5G NR

Mode	Band	IEEE 802.11 (in dBm)								IEEE 802.11 (in dBm)							
		SISO								MIMO							
		Antenna 1 & Antenna 2															
		a		n		ac		ax (SU)		a (CDD + STBC)		n (CDD + STBC, SDM)		ac (CDD + STBC, SDM)		ax (SU) (CDD + STBC, SDM)	
		Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum
5 GHz WiFi (20MHz BW)	UNII-1	12.0	13.0	12.0	13.0	12.0	13.0	12.0	13.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0	16.0
	UNII-2A	12.0	13.0	12.0	13.0	12.0	13.0	12.0	13.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0	16.0
	UNII-2C	12.0	13.0	12.0	13.0	12.0	13.0	12.0	13.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0	16.0
	UNII-3	12.0	13.0	12.0	13.0	12.0	13.0	12.0	13.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0	16.0
	UNII-4	12.0	13.0	12.0	13.0	12.0	13.0	12.0	13.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0	16.0
5 GHz WiFi (40MHz BW)	UNII-1			12.0	13.0	12.0	13.0	12.0	13.0			15.0	16.0	15.0	16.0	15.0	16.0
	UNII-2A			12.0	13.0	12.0	13.0	12.0	13.0			15.0	16.0	15.0	16.0	15.0	16.0
	UNII-2C			12.0	13.0	12.0	13.0	12.0	13.0			15.0	16.0	15.0	16.0	15.0	16.0
	UNII-3			12.0	13.0	12.0	13.0	12.0	13.0			15.0	16.0	15.0	16.0	15.0	16.0
	UNII-4			12.0	13.0	12.0	13.0	12.0	13.0			15.0	16.0	15.0	16.0	15.0	16.0
5 GHz WiFi (80MHz BW)	UNII-1					12.0	13.0	12.0	13.0					15.0	16.0	15.0	16.0
	UNII-2A					12.0	13.0	12.0	13.0					15.0	16.0	15.0	16.0
	UNII-2C					12.0	13.0	12.0	13.0					15.0	16.0	15.0	16.0
	UNII-3					12.0	13.0	12.0	13.0					15.0	16.0	15.0	16.0
	UNII-4					12.0	13.0	12.0	13.0					15.0	16.0	15.0	16.0

The below table is applicable in the following conditions:

- RCV Active
- RCV Active during simultaneous conditions with 2.4 GHz WLAN and/or 5G NR

Mode	Band	IEEE 802.11 (in dBm)								IEEE 802.11 (in dBm)							
		SISO								MIMO							
		Antenna 1 & Antenna 2															
		a		n		ac		ax (SU)		a (CDD + STBC)		n (CDD + STBC, SDM)		ac (CDD + STBC, SDM)		ax (SU) (CDD + STBC, SDM)	
		Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum
5 GHz WiFi (20MHz BW)	UNII-1	11.0	12.0	11.0	12.0	11.0	12.0	11.0	12.0	14.0	15.0	14.0	15.0	14.0	15.0	14.0	15.0
	UNII-2A	11.0	12.0	11.0	12.0	11.0	12.0	11.0	12.0	14.0	15.0	14.0	15.0	14.0	15.0	14.0	15.0
	UNII-2C	11.0	12.0	11.0	12.0	11.0	12.0	11.0	12.0	14.0	15.0	14.0	15.0	14.0	15.0	14.0	15.0
	UNII-3	11.0	12.0	11.0	12.0	11.0	12.0	11.0	12.0	14.0	15.0	14.0	15.0	14.0	15.0	14.0	15.0
	UNII-4	11.0	12.0	11.0	12.0	11.0	12.0	11.0	12.0	14.0	15.0	14.0	15.0	14.0	15.0	14.0	15.0
5 GHz WiFi (40MHz BW)	UNII-1			11.0	12.0	11.0	12.0	11.0	12.0			14.0	15.0	14.0	15.0	14.0	15.0
	UNII-2A			11.0	12.0	11.0	12.0	11.0	12.0			14.0	15.0	14.0	15.0	14.0	15.0
	UNII-2C			11.0	12.0	11.0	12.0	11.0	12.0			14.0	15.0	14.0	15.0	14.0	15.0
	UNII-3			11.0	12.0	11.0	12.0	11.0	12.0			14.0	15.0	14.0	15.0	14.0	15.0
	UNII-4			11.0	12.0	11.0	12.0	11.0	12.0			14.0	15.0	14.0	15.0	14.0	15.0
5 GHz WiFi (80MHz BW)	UNII-1					11.0	12.0	11.0	12.0					14.0	15.0	14.0	15.0
	UNII-2A					11.0	12.0	11.0	12.0					14.0	15.0	14.0	15.0
	UNII-2C					11.0	12.0	11.0	12.0					14.0	15.0	14.0	15.0
	UNII-3					11.0	12.0	11.0	12.0					14.0	15.0	14.0	15.0
	UNII-4					11.0	12.0	11.0	12.0					14.0	15.0	14.0	15.0

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1.4.6 2.4 GHz Maximum Bluetooth Output Power

Mode	Single Antenna	
	Nominal	Maximum
Bluetooth (in dBm)	15.0	16.0
Bluetooth EDR (in dBm)	10.5	11.5
Bluetooth LE 1/2Mbps (in dBm)	15.0	16.0
Bluetooth LE 125/500 kbps (in dBm)	10.0	11.0

1.4.7 2.4 GHz Reduced Bluetooth Output Power

The below table is applicable in the following conditions:

- RCV active
- During simultaneous conditions with 5GHz WLAN and/or 5G NR
- RCV active during simultaneous conditions with 5 GHz WLAN and/or 5G NR

Mode	Single Antenna	
	Nominal	Maximum
Bluetooth (in dBm)	12.0	13.0
Bluetooth EDR (in dBm)	10.5	11.5
Bluetooth LE 1/2Mbps (in dBm)	12.0	13.0
Bluetooth LE 125/500 kbps (in dBm)	10.0	11.0

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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 F. Since the display diagonal dimension of this device is > 150 mm and <200 mm, it is considered a “phablet.”

Table 1-1
Device Edges/Sides for SAR Testing – Legacy

Mode	Back	Front	Top	Bottom	Right	Left
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 Antenna A	Yes	Yes	No	Yes	Yes	Yes
LTE Band 30 Antenna B	Yes	Yes	No	Yes	No	Yes
LTE Band 7	Yes	Yes	No	Yes	No	Yes
LTE Band 48	Yes	Yes	Yes	No	No	Yes
LTE Band 41	Yes	Yes	No	Yes	No	Yes
2.4 GHz WLAN Ant 2	Yes	Yes	Yes	No	No	Yes
2.4 GHz WLAN MIMO	Yes	Yes	Yes	No	No	Yes
5 GHz WLAN Ant 1	Yes	Yes	No	No	No	Yes
5 GHz WLAN MIMO	Yes	Yes	Yes	No	No	Yes
Bluetooth	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. Some edges were additionally evaluated per manufacturer's request. 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 UNII-4 operations are disabled.

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**Table 1-2
Device Edges/Sides for SAR Testing – NR**

	Back	Front	Top	Bottom	Right	Left
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 n66 (AWS) Antenna F	Yes	Yes	Yes	No	Yes	No
NR Band n25 (PCS) Antenna A	Yes	Yes	No	Yes	Yes	Yes
NR Band n25 (PCS) Antenna F	Yes	Yes	Yes	No	Yes	No
NR Band n30 Antenna A	Yes	Yes	No	Yes	Yes	Yes
NR Band n30 Antenna B	Yes	Yes	No	Yes	No	Yes
NR Band n30 Antenna F	Yes	Yes	Yes	No	Yes	No
NR Band n7	Yes	Yes	No	Yes	No	Yes
NR Band n41 Antenna F	Yes	Yes	Yes	No	Yes	No
NR Band n41 Antenna B	Yes	Yes	No	Yes	No	Yes
NR Band n41 Antenna E	Yes	Yes	Yes	No	Yes	Yes
NR Band n41 Antenna D	Yes	Yes	No	Yes	Yes	No
NR Band n77 DoD Antenna G	Yes	Yes	Yes	No	No	Yes
NR Band n77 DoD Antenna C	Yes	Yes	No	Yes	No	Yes
NR Band n77 DoD Antenna H	Yes	Yes	Yes	No	No	No
NR Band n77 DoD Antenna D	Yes	Yes	No	Yes	Yes	No
NR Band n77 Antenna G	Yes	Yes	Yes	No	No	Yes
NR Band n77 Antenna C	Yes	Yes	No	Yes	No	Yes
NR Band n77 Antenna H	Yes	Yes	Yes	No	No	No
NR Band n77 Antenna D	Yes	Yes	No	Yes	Yes	No

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.

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 F.

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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 1-3
Simultaneous Transmission Scenarios**

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

- 2.4 GHz WLAN Antenna 1 and 2.4 GHz Bluetooth share the same antenna path and cannot transmit simultaneously.
- 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.

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3. 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.
4. 5 GHz Wireless Router is only supported for the U-NII-3 by S/W, therefore U-NII-1, U-NII2A, U-NII2C, and U-NII4 were not evaluated for wireless router conditions.
5. This device supports 2x2 MIMO Tx for WLAN 802.11a/b/g/n/ac/ax. 802.11a/b/g/n/ac/ax supports CDD and STBC and 802.11n/ac/ax additionally supports SDM. WLAN can transmit only when operating with MIMO.
6. This device supports VoWIFI.
7. This device supports Bluetooth Tethering.
8. This device supports VoLTE.
9. This device supports VoNR.
10. LTE + 5G NR FR1 Scenarios are limited to EN-DC combinations with anchor bands as shown in the NR FR1 checklist.
11. 5G NR FR2 n258, n260, and n261 cannot transmit simultaneously.
12. 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, & U-NII-4 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 80 MHz Bandwidth only for 5 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 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, & U-NII-4 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.

(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.

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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.

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 J.

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 LTE Carrier Aggregation (CA) for LTE Band 41, LTE Band 5, LTE Band 66, and LTE Band 48 with two component carriers in the uplink. SAR Measurements and conducted powers were evaluated per 2017 Fall TCB Workshop Notes.

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

SRS was tested with CW signal per Qualcomm guidance in 80-w2112-4.

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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)	1M2109080099-22.A3L
Near Field PD Part 0 Report	
RF Exposure Part 2 Test Report	1M2109080099-23.A3L
RF Exposure Compliance Summary Report	1M2109080099-24.A3L
RF Exposure Part 0 Test Report	1M2109080099-21.A3L

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LTE AND NR INFORMATION

LTE Information					
Form Factor	Portable Handset				
Frequency Range of each LTE transmission band	LTE Band 71 (655.5 - 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 - 1914.3 MHz) LTE Band 30 (2307.5 - 2312.3 MHz) LTE Band 7 (2502.5 - 2567.5 MHz) LTE Band 48 (2502.5 - 2569.2 MHz) LTE Band 41 (2488.5 - 2587.5 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 (26997)		831.5 (26985)	848.3 (27033)	
LTE Band 26 (Cell): 3 MHz	815.5 (26705)		831.5 (26985)	847.5 (27025)	
LTE Band 26 (Cell): 5 MHz	816.5 (26715)		831.5 (26985)	846.5 (27015)	
LTE Band 26 (Cell): 10 MHz	819 (26740)		831.5 (26985)	844 (26990)	
LTE Band 5 (Cell): 1.4 MHz	824.7 (20407)		838.5 (20525)	848.3 (20943)	
LTE Band 5 (Cell): 3 MHz	825.5 (20415)		838.5 (20525)	847.5 (20935)	
LTE Band 5 (Cell): 5 MHz	826.5 (20425)		838.5 (20525)	846.5 (20925)	
LTE Band 5 (Cell): 10 MHz	829 (20450)		838.5 (20525)	844 (20900)	
LTE Band 5 (Cell): 20 MHz	834 (20500)		838.5 (20525)	839 (20550)	
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 (20363)	
LTE Band 4 (AWS): 3 MHz	1711.5 (19965)		1732.5 (20175)	1753.5 (20355)	
LTE Band 4 (AWS): 5 MHz	1712.5 (19975)		1732.5 (20175)	1752.5 (20345)	
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	3559 (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)
IE 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 J. 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, NetNet, Enhanced MIMO, eICIC, eMBMS, Cross-Carrier Scheduling, Enhanced SC-FDMA.				

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NR Information					
Form Factor	Portable Handset				
	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 n7 (2502.5 - 2567.5 MHz)				
	NR Band n41 (2506.02 - 2679.99 MHz)				
	NR Band n38 (2675 - 2615 MHz)				
	NR Band n77 DoD (3455.01 - 3444.98 MHz)				
	NR Band n77 (3705 - 3975 MHz)				
	NR Band n71: 5 MHz, 10 MHz, 15 MHz, 20 MHz				
Channel Bandwidths	NR Band n12: 5 MHz, 10 MHz, 15 MHz, 20 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 n7: 5 MHz, 10 MHz, 15 MHz, 20 MHz, 25 MHz, 30 MHz, 40 MHz				
	NR Band n41: 20 MHz, 30 MHz, 40 MHz, 50 MHz, 60 MHz, 70 MHz, 80 MHz, 90 MHz, 100 MHz				
	NR Band n38: 10 MHz, 15 MHz, 20 MHz, 30 MHz, 40 MHz				
	NR Band n77 DoD: 10 MHz, 15 MHz, 20 MHz, 30 MHz, 40 MHz, 50 MHz, 60 MHz, 70 MHz, 80 MHz, 90 MHz, 100 MHz				
	NR Band n77: 10 MHz, 15 MHz, 20 MHz, 30 MHz, 40 MHz, 50 MHz, 60 MHz, 70 MHz, 80 MHz, 90 MHz, 100 MHz				
	Channel Numbers and Frequencies (MHz)	NR Band n71: 5 MHz			
		NR Band n71: 10 MHz			
		NR Band n71: 15 MHz			
NR Band n71: 20 MHz					
NR Band n12: 5 MHz					
NR Band n12: 10 MHz					
NR Band n12: 15 MHz					
NR Band n5 (Cell): 5 MHz					
NR Band n5 (Cell): 10 MHz					
NR Band n5 (Cell): 15 MHz					
NR Band n5 (Cell): 20 MHz					
NR Band n66 (AWS): 5 MHz					
NR Band n66 (AWS): 10 MHz					
NR Band n66 (AWS): 15 MHz					
NR Band n66 (AWS): 20 MHz					
NR Band n66 (AWS): 30 MHz					
NR Band n66 (AWS): 40 MHz					
NR Band n25 (PCS): 5 MHz					
NR Band n25 (PCS): 10 MHz					
NR Band n25 (PCS): 15 MHz					
NR Band n25 (PCS): 20 MHz					
NR Band n25 (PCS): 25 MHz					
NR Band n25 (PCS): 30 MHz					
NR Band n25 (PCS): 40 MHz					
NR Band n2 (PCS): 5 MHz					
NR Band n2 (PCS): 10 MHz					
NR Band n2 (PCS): 15 MHz					
NR Band n2 (PCS): 20 MHz					
NR Band n30: 5 MHz					
NR Band n30: 10 MHz					
NR Band n7: 5 MHz					
NR Band n7: 10 MHz					
NR Band n7: 15 MHz					
NR Band n7: 20 MHz					
NR Band n7: 25 MHz					
NR Band n7: 30 MHz					
NR Band n7: 40 MHz					
NR Band n41: 20 MHz					
NR Band n41: 30 MHz					
NR Band n41: 40 MHz					
NR Band n41: 50 MHz					
NR Band n41: 60 MHz					
NR Band n41: 70 MHz					
NR Band n41: 80 MHz					
NR Band n41: 90 MHz					
NR Band n41: 100 MHz					
NR Band n38: 10 MHz					
NR Band n38: 15 MHz					
NR Band n38: 20 MHz					
NR Band n38: 30 MHz					
NR Band n38: 40 MHz					
NR Band n77 DoD: 10 MHz					
NR Band n77 DoD: 15 MHz					
NR Band n77 DoD: 20 MHz					
NR Band n77 DoD: 30 MHz					
NR Band n77 DoD: 40 MHz					
NR Band n77 DoD: 50 MHz					
NR Band n77 DoD: 60 MHz					
NR Band n77 DoD: 70 MHz					
NR Band n77 DoD: 80 MHz					
NR Band n77 DoD: 90 MHz					
NR Band n77 DoD: 100 MHz					
NR Band n77: 10 MHz					
NR Band n77: 15 MHz					
NR Band n77: 20 MHz					
NR Band n77: 30 MHz					
NR Band n77: 40 MHz					
NR Band n77: 50 MHz					
NR Band n77: 60 MHz					
NR Band n77: 70 MHz					
NR Band n77: 80 MHz					
NR Band n77: 90 MHz					
NR Band n77: 100 MHz					
SCS for NR Band n71/n12/n5/n66/n25/n2/n30/n7					
SCS for NR Band n41/n38/n48/n77					
Modulations Supported in UL					
DFT-s-OFDM: 1/2 BPSK, QPSK, 16QAM, 64QAM, 256QAM					
CP-OFDM: QPSK, 16QAM, 64QAM, 256QAM					
A-MPR (Additional MPR) disabled for SAR Testing?					
YES					
EN-DC Carrier Aggregation Possible Combinations					
The technical description includes all the possible carrier aggregation combinations					
LTE Anchor Bands for NR Band n71					
LTE Band 66/2/48					
LTE Anchor Bands for NR Band n12					
LTE Band 66/2					
LTE Anchor Bands for NR Band n5 (Cell)					
LTE Band 2/66/30/48					
LTE Anchor Bands for NR Band n66 (AWS)					
LTE Band 12/13/14/5/2/30/48					
LTE Anchor Bands for NR Band n25 (PCS)					
LTE Band 12/66					
LTE Anchor Bands for NR Band n2 (PCS)					
LTE Band 12/13/14/5/66/48/30					
LTE Anchor Bands for NR Band n30					
LTE Band 12/14/5/66/2					
LTE Anchor Bands for NR Band n7					
N/A					
LTE Anchor Bands for NR Band n41					
LTE Band 66/25/2					
LTE Anchor Bands for NR Band n38					
N/A					
LTE Anchor Bands for NR Band n77					
LTE Band 12/13/14/5/66/2/30					

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3 INTRODUCTION

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

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

3.1 SAR Definition

Specific Absorption Rate is defined as the time derivative (rate) of the incremental energy (dU) absorbed by (dissipated in) an incremental mass (dm) contained in a volume element (dV) of a given density (ρ). It is also defined as the rate of RF energy absorption per unit mass at a point in an absorbing body (see Equation 3-1).

Equation 3-1
SAR Mathematical Equation

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

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

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

where:

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

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

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4.1 Measurement Procedure

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

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

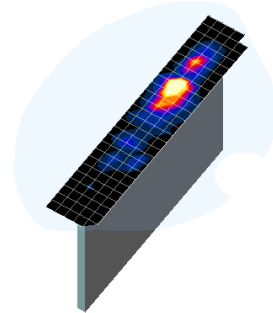


Figure 4-1
Sample SAR Area Scan

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

Frequency	Maximum Area Scan Resolution (mm) ($\Delta x_{area}, \Delta y_{area}$)	Maximum Zoom Scan Resolution (mm) ($\Delta x_{zoom}, \Delta y_{zoom}$)	Maximum Zoom Scan Spatial Resolution (mm)			Minimum Zoom Scan Volume (mm) (x,y,z)
			Uniform Grid	Graded Grid		
				$\Delta z_{zoom}(n)$	$\Delta z_{zoom}(1)^*$	
≤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

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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].

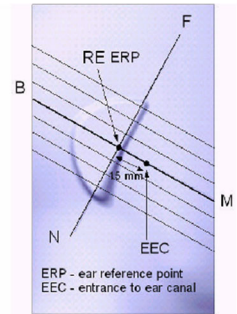


Figure 5-1
Close-Up Side view
of ERP

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 then 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.

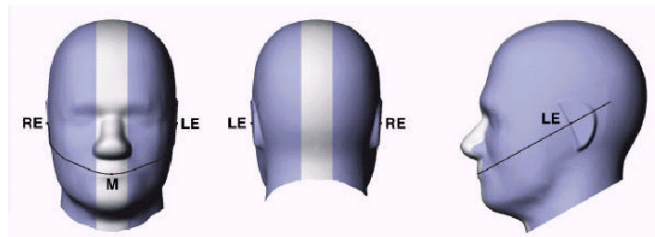


Figure 5-2
Front, back and side view of SAM Twin Phantom

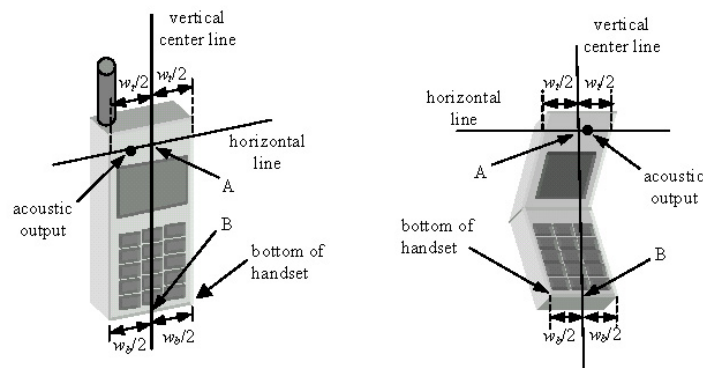


Figure 5-3
Handset Vertical Center & Horizontal Line Reference Points

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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 $\epsilon = 3$ and loss tangent $\delta = 0.02$.

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.

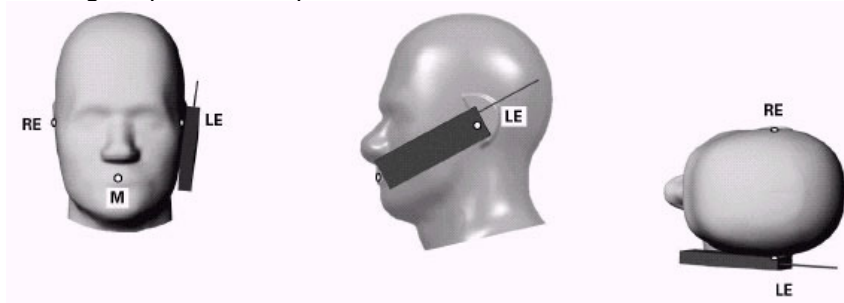


Figure 6-1 Front, Side and Top View of Cheek Position

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 with 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 / 15° 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 15 degrees.
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).

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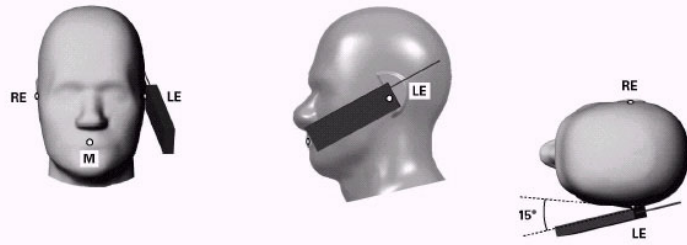


Figure 6-2 Front, Side and Top View of Ear/15° Tilt Position

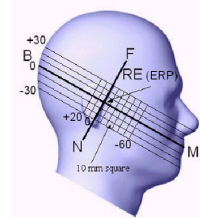


Figure 6-3 Side view w/ relevant markings

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.

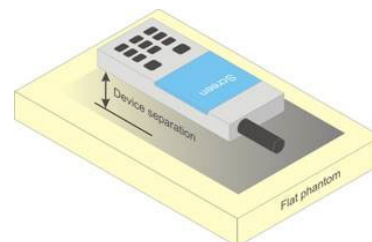


Figure 6-4 Sample Body-Worn Diagram

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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 ($L \times W \geq 9 \text{ cm} \times 5 \text{ cm}$) 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.

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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.

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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 <i>General Population</i> (W/kg) or (mW/g)	CONTROLLED ENVIRONMENT <i>Occupational</i> (W/kg) or (mW/g)
Peak Spatial Average SAR Head	1.6	8.0
Whole Body SAR	0.08	0.4
Peak Spatial Average SAR Hands, Feet, Ankle, Wrists, etc.	4.0	20

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

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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 UMTS

8.4.1 Output Power Verification

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

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8.4.2 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.

8.4.3 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.

8.4.4 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.

8.4.5 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.

8.4.6 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.

8.5 SAR Measurement Conditions for LTE

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

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8.5.1 Spectrum Plots for RB Configurations

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

8.5.2 MPR

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

8.5.3 A-MPR

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

8.5.4 Required RB Size and RB Offsets for SAR Testing

According to FCC KDB 941225 D05v02r04:

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

8.5.5 TDD

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

8.5.6 Downlink Only Carrier Aggregation

Conducted power measurements with LTE Carrier Aggregation (CA) (downlink only) active are made in accordance to KDB Publication 941225 D05Av01r02. The RRC connection is only handled by one cell, the primary component carrier (PCC) for downlink and uplink communications. After making a data

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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.

8.6 SAR Testing with 802.11 Transmitters

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

8.6.1 General Device Setup

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

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

8.6.2 U-NII-1 and U-NII-2A

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

8.6.3 U-NII-2C and U-NII-3

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

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8.6.4 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.

8.6.5 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.

8.6.6 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.

8.6.7 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.

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

8.6.8 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.

8.6.9 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.

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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 GSM Conducted Powers

Table 9-1
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	31.50	31.50	32.38	30.09	27.50	26.32	24.93	22.71	21.65
	190	31.95	31.93	31.74	30.18	27.55	26.32	24.85	22.64	22.13
	251	31.94	31.91	31.78	30.17	27.57	26.41	24.78	22.68	21.97
GSM 1900	512	28.51	28.62	27.74	25.87	23.65	25.08	23.80	21.90	20.76
	661	28.11	28.23	27.35	25.70	23.50	24.80	23.73	21.57	20.72
	810	28.93	29.03	27.89	26.13	24.12	24.99	23.87	21.92	20.93

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	22.30	22.30	26.19	25.66	24.32	17.12	18.74	18.28	18.47
	190	22.75	22.73	25.55	25.75	24.37	17.12	18.66	18.21	18.95
	251	22.74	22.71	25.59	25.74	24.39	17.21	18.59	18.25	18.79
GSM 1900	512	19.31	19.42	21.55	21.44	20.47	15.88	17.61	17.47	17.58
	661	18.91	19.03	21.16	21.27	20.32	15.60	17.54	17.14	17.54
	810	19.73	19.83	21.70	21.70	20.94	15.79	17.68	17.49	17.75

GSM 850	Frame Avg.Targets:	22.80	22.80	25.31	25.07	24.32	17.80	18.81	18.57	18.82
GSM 1900		19.80	19.80	21.81	22.07	21.32	16.80	17.81	17.57	17.82

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Table 9-2
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	28.08	28.20	25.07	23.26	21.05	25.08	23.80	21.90	20.76
	661	27.80	27.90	24.60	22.94	21.03	24.80	23.73	21.57	20.72
	810	27.92	27.99	24.86	22.70	21.75	24.99	23.87	21.92	20.93

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	18.88	19.00	18.88	18.83	17.87	15.88	17.61	17.47	17.58
	661	18.60	18.70	18.41	18.51	17.85	15.60	17.54	17.14	17.54
	810	18.72	18.79	18.67	18.27	18.57	15.79	17.68	17.49	17.75

GSM 1900	Frame Avg.Targets:	18.30	18.30	18.31	18.27	18.32	16.80	17.81	17.57	17.82
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Note:

- 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.
- 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.
- 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 9-1
Power Measurement Setup

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9.2 UMTS Conducted Powers

Table 9-3
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	24.40	24.41	24.35	23.29	23.11	22.95	23.60	23.49	23.79	-
99		12.2 kbps AMR	24.31	24.39	24.35	23.26	23.03	22.90	23.44	23.29	23.60	-
6	HSDPA	Subtest 1	23.29	23.28	23.21	21.97	21.72	21.68	22.52	22.34	22.69	0
6		Subtest 2	23.32	23.29	23.18	21.99	21.74	21.68	22.52	22.36	22.67	0
6		Subtest 3	22.75	22.78	22.73	21.46	21.21	21.16	22.03	21.87	22.16	0.5
6		Subtest 4	22.82	22.79	22.72	21.47	21.22	21.18	22.01	21.82	22.15	0.5
6	HSUPA	Subtest 1	23.27	23.24	23.30	21.98	21.78	21.73	22.57	22.39	22.77	0
6		Subtest 2	21.32	21.29	21.24	19.99	19.76	19.77	20.49	20.45	20.77	2
6		Subtest 3	22.29	22.27	22.25	21.01	20.74	20.71	21.54	21.37	21.81	1
6		Subtest 4	21.29	21.25	21.22	19.97	19.69	19.66	20.55	20.41	20.73	2
6		Subtest 5	23.29	23.33	23.26	22.00	21.72	21.66	22.53	22.39	22.73	0
8	DC-HSDPA	Subtest 1	23.28	23.21	23.00	22.01	21.75	21.69	22.52	22.33	22.73	0
8		Subtest 2	23.18	23.29	23.21	22.05	21.81	21.39	22.55	22.36	22.71	0
8		Subtest 3	22.67	22.62	22.55	21.48	21.14	21.07	21.65	21.54	21.85	0.5
8		Subtest 4	22.47	22.42	22.36	21.21	20.94	20.93	21.65	21.52	21.86	0.5

Table 9-4
Measured P_{limit} for DSI = 1 (Phablet with grip sensor active) 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	20.41	20.21	20.11	19.32	19.29	19.27	-
99		12.2 kbps AMR	20.34	20.16	20.10	19.27	19.28	19.25	-
6	HSDPA	Subtest 1	19.20	18.95	18.96	18.05	17.92	18.22	0
6		Subtest 2	19.23	18.97	18.91	18.03	17.88	18.20	0
6		Subtest 3	18.61	18.41	18.43	17.53	17.39	17.72	0.5
6		Subtest 4	18.69	18.43	18.41	17.51	17.43	17.67	0.5
6	HSUPA	Subtest 1	19.22	18.92	18.93	18.07	17.87	18.24	0
6		Subtest 2	17.23	16.99	16.91	16.04	15.89	16.22	2
6		Subtest 3	18.17	17.93	17.92	17.10	16.86	17.22	1
6		Subtest 4	17.19	16.91	16.91	16.04	15.87	16.19	2
6		Subtest 5	19.19	18.92	18.93	18.06	17.88	18.22	0
8	DC-HSDPA	Subtest 1	19.24	18.97	18.94	18.03	17.92	18.25	0
8		Subtest 2	19.12	18.93	18.92	18.02	17.86	18.24	0
8		Subtest 3	18.69	18.46	18.44	17.52	17.40	17.73	0.5
8		Subtest 4	18.70	18.47	18.43	17.48	17.39	17.72	0.5

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Table 9-5
Measured P_{limit} for DSI = 3 (Hotspot mode)

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	18.90	18.70	18.53	18.68	18.53	18.80	-
99		12.2 kbps AMR	18.85	18.69	18.53	18.68	18.54	18.78	-
6	HSDPA	Subtest 1	17.68	17.40	17.39	17.52	17.32	17.69	0
6		Subtest 2	17.67	17.41	17.37	17.54	17.40	17.68	0
6		Subtest 3	17.18	16.89	16.91	17.02	16.89	17.21	0.5
6		Subtest 4	17.16	16.90	16.87	16.99	16.84	17.01	0.5
6	HSPA	Subtest 1	17.47	17.22	17.19	17.43	17.17	17.52	0
6		Subtest 2	15.48	15.23	15.27	15.44	15.22	15.55	2
6		Subtest 3	16.51	16.23	16.25	16.47	16.29	16.57	1
6		Subtest 4	15.44	15.22	15.28	15.48	15.26	15.56	2
6		Subtest 5	17.42	17.23	17.24	17.44	17.23	17.55	0
8	DC-HSDPA	Subtest 1	17.73	17.42	17.35	17.51	17.36	17.69	0
8		Subtest 2	17.68	17.41	17.42	17.50	17.33	17.68	0
8		Subtest 3	17.21	16.94	16.86	17.00	16.89	17.19	0.5
8		Subtest 4	17.21	16.97	16.88	17.01	16.84	17.19	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 9-2
Power Measurement Setup

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9.3 LTE Conducted Powers

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

Note: Some bands do 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.

LTE Carrier Aggregation 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.

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9.3.1

LTE Band 71

Table 9-6
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	MPR Allowed per 3GPP [dB]	MPR [dB]
			133297 (680.5 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	25.31	0	0
	1	50	25.33		0
	1	99	25.17		0
	50	0	24.14	0-1	1
	50	25	24.16		1
	50	50	24.12		1
	100	0	24.03		1
16QAM	1	0	24.50	0-1	1
	1	50	24.43		1
	1	99	24.32		1
	50	0	23.20	0-2	2
	50	25	23.15		2
	50	50	23.14		2
	100	0	23.12		2
64QAM	1	0	23.21	0-2	2
	1	50	23.26		2
	1	99	23.13		2
	50	0	22.16	0-3	3
	50	25	22.13		3
	50	50	22.16		3
	100	0	22.05		3
256QAM	1	0	20.10	0-5	5
	1	50	20.48		5
	1	99	20.21		5
	50	0	20.28		5
	50	25	20.36		5
	50	50	20.23		5
	100	0	20.28		5

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9.3.2 LTE Band 12

Table 9-7
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	MPR Allowed per 3GPP [dB]	MPR [dB]
			23095 (707.5 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	25.45	0	0
	1	25	25.33		0
	1	49	25.50		0
	25	0	24.14	0-1	1
	25	12	24.23		1
	25	25	24.22		1
	50	0	24.18		1
16QAM	1	0	24.41	0-1	1
	1	25	24.32		1
	1	49	24.49		1
	25	0	23.13	0-2	2
	25	12	23.24		2
	25	25	23.21		2
	50	0	23.10		2
64QAM	1	0	23.49	0-2	2
	1	25	23.48		2
	1	49	23.22		2
	25	0	22.20	0-3	3
	25	12	22.30		3
	25	25	22.31		3
	50	0	22.29		3
256QAM	1	0	20.33	0-5	5
	1	25	20.50		5
	1	49	20.49		5
	25	0	20.44		5
	25	12	20.46		5
	25	25	20.34		5
	50	0	20.36		5

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9.3.3 LTE Band 13

Table 9-8
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	MPR Allowed per 3GPP [dB]	MPR [dB]
			23230 (782.0 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	25.19	0	0
	1	25	25.17		0
	1	49	25.02		0
	25	0	24.11	0-1	1
	25	12	24.20		1
	25	25	24.10		1
	50	0	24.16		1
16QAM	1	0	24.35	0-1	1
	1	25	24.22		1
	1	49	24.11		1
	25	0	23.11	0-2	2
	25	12	23.17		2
	25	25	23.12		2
	50	0	23.17		2
64QAM	1	0	23.42	0-2	2
	1	25	23.37		2
	1	49	23.20		2
	25	0	22.09	0-3	3
	25	12	22.18		3
	25	25	22.09		3
	50	0	22.18		3
256QAM	1	0	19.90	0-5	5
	1	25	20.30		5
	1	49	19.95		5
	25	0	20.02		5
	25	12	20.17		5
	25	25	20.06		5
	50	0	20.07		5

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9.3.4 LTE Band 14

Table 9-9
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	MPR Allowed per 3GPP [dB]	MPR [dB]
			23330 (793.0 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	25.34	0	0
	1	25	25.35		0
	1	49	25.30		0
	25	0	24.21	0-1	1
	25	12	24.36		1
	25	25	24.28		1
	50	0	24.24		1
16QAM	1	0	24.41	0-1	1
	1	25	24.39		1
	1	49	24.36		1
	25	0	23.30	0-2	2
	25	12	23.33		2
	25	25	23.31		2
	50	0	23.26		2
64QAM	1	0	23.44	0-2	2
	1	25	23.49		2
	1	49	23.32		2
	25	0	22.17	0-3	3
	25	12	22.22		3
	25	25	22.19		3
	50	0	22.22		3
256QAM	1	0	20.03	0-5	5
	1	25	20.44		5
	1	49	20.04		5
	25	0	20.31		5
	25	12	20.33		5
	25	25	20.29		5
	50	0	20.22		5

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9.3.5 LTE Band 26

Table 9-10
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	MPR Allowed per 3GPP [dB]	MPR [dB]
			26865 (831.5 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	25.50	0	0
	1	36	25.49		0
	1	74	25.34		0
	36	0	24.21	0-1	1
	36	18	24.27		1
	36	37	24.19		1
	75	0	24.15		1
16QAM	1	0	24.50	0-1	1
	1	36	24.27		1
	1	74	24.22		1
	36	0	23.17	0-2	2
	36	18	23.25		2
	36	37	23.30		2
	75	0	23.17		2
64QAM	1	0	23.17	0-2	2
	1	36	23.50		2
	1	74	23.15		2
	36	0	22.20	0-3	3
	36	18	22.29		3
	36	37	22.10		3
	75	0	22.10		3
256QAM	1	0	19.91	0-5	5
	1	36	20.50		5
	1	74	20.10		5
	36	0	20.15		5
	36	18	20.15		5
	36	37	20.30		5
	75	0	20.16		5

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9.3.6 LTE Band 5

Table 9-11
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	MPR Allowed per 3GPP [dB]	MPR [dB]
			20525 (836.5 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	24.50	0	0
	1	25	24.46		0
	1	49	24.32		0
	25	0	23.37	0-1	1
	25	12	23.36		1
	25	25	23.38		1
	50	0	23.34		1
16QAM	1	0	23.86	24.6	1
	1	25	23.89		1
	1	49	23.86		1
	25	0	22.41	0-2	2
	25	12	22.44		2
	25	25	22.45		2
	50	0	22.35		2
64QAM	1	0	22.64	0-2	2
	1	25	22.59		2
	1	49	22.65		2
	25	0	21.36	0-3	3
	25	12	21.42		3
	25	25	21.45		3
	50	0	21.41		3
256QAM	1	0	19.16	0-5	5
	1	25	19.39		5
	1	49	19.10		5
	25	0	19.26		5
	25	12	19.43		5
	25	25	19.32		5
	50	0	19.37		5

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Table 9-12

LTE Band 5 (Cell) Uplink Carrier Aggregation Measured P_{Max} for all DSI - 10 MHz Bandwidth

Combination	PCC									SCC									Power	
	PCC Band	PCC Bandwidth [MHz]	PCC UL Channel	PCC UL Frequency [MHz]	PCC DL Channel	PCC DL Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC UL Channel	SCC UL Frequency [MHz]	SCC DL Channel	SCC DL Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA 5B	LTE B5	10	20525	836.5	2525	881.5	QPSK	1	0	LTE B5	5	20453	829.3	2453	874.3	QPSK	1	24	24.45	24.50

9.3.7 LTE Band 66

Table 9-13

LTE Band 66 (AWS) Measured P_{Max} – 20 MHz Bandwidth

LTE Band 66 (AWS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			132072 (1720.0 MHz)	132322 (1745.0 MHz)	132572 (1770.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	23.20	23.35	23.93	0	0
	1	50	23.61	23.87	23.88		0
	1	99	23.48	23.36	23.75		0
	50	0	22.46	22.73	22.90	0-1	1
	50	25	22.68	22.85	22.84		1
	50	50	22.63	22.84	22.95		1
	100	0	22.53	22.69	22.92		1
16QAM	1	0	22.29	22.28	22.90	0-1	1
	1	50	22.59	22.84	23.10		1
	1	99	22.77	22.58	23.16		1
	50	0	21.43	21.71	21.86	0-2	2
	50	25	21.65	21.82	22.01		2
	50	50	21.60	21.91	21.98		2
	100	0	21.58	21.81	21.85		2
64QAM	1	0	21.27	21.50	21.81	0-2	2
	1	50	21.85	21.92	21.84		2
	1	99	21.54	21.82	21.97		2
	50	0	20.42	20.75	20.89	0-3	3
	50	25	20.63	20.93	21.02		3
	50	50	20.59	20.82	20.85		3
	100	0	20.56	20.68	21.02		3
256QAM	1	0	18.16	18.51	18.60	0-5	5
	1	50	18.61	18.83	18.86		5
	1	99	18.53	18.68	18.91		5
	50	0	18.37	18.80	18.88		5
	50	25	18.57	18.82	19.02		5
	50	50	18.53	18.88	18.96		5
	100	0	18.50	18.75	18.95		5

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Table 9-14
LTE Band 66 (AWS) Measured P_{Max} – 10 MHz Bandwidth

LTE Band 66 (AWS) 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			132022 (1715.0 MHz)	132322 (1745.0 MHz)	132622 (1775.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	23.40	23.73	23.74	0	0
	1	25	23.73	24.04	24.14		0
	1	49	23.49	23.83	23.94		0
	25	0	22.61	22.90	22.91	0-1	1
	25	12	22.79	22.95	23.11		1
	25	25	22.67	22.91	23.00		1
	50	0	22.69	22.83	23.03		1
16QAM	1	0	22.18	22.60	22.57	0-1	1
	1	25	22.32	22.65	22.73		1
	1	49	22.53	22.64	22.71		1
	25	0	21.31	21.52	21.59	0-2	2
	25	12	21.44	21.62	21.72		2
	25	25	21.35	21.64	21.61		2
	50	0	21.36	21.47	21.64		2
64QAM	1	0	21.44	21.57	21.56	0-2	2
	1	25	21.48	21.55	21.69		2
	1	49	21.51	21.64	21.61		2
	25	0	20.39	20.49	20.57	0-3	3
	25	12	20.49	20.61	20.62		3
	25	25	20.35	20.62	20.71		3
	50	0	20.39	20.56	20.62		3
256QAM	1	0	18.26	18.37	18.58	0-5	5
	1	25	18.50	18.59	18.62		5
	1	49	18.41	18.35	18.41		5
	25	0	18.29	18.53	18.52		5
	25	12	18.37	18.63	18.66		5
	25	25	18.35	18.57	18.63		5
	50	0	18.38	18.49	18.57		5

Table 9-15
LTE Band 66 (AWS) Uplink Carrier Aggregation Measured P_{max}

Combination	PCC Band	PCC Bandwidth [MHz]	PCC (UL) Channel	PCC (UL) Frequency [MHz]	PCC		Modulation	PCC UL# RB	PCC UL# RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL) Channel	SCC (UL) Frequency [MHz]	SCC		Modulation	SCC UL# RB	SCC UL# RB Offset	Power	
					PCC DL Channel	PCC DL Frequency [MHz]								SCC (DL) Channel	SCC (DL) Frequency [MHz]				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	1	0	LTE B66	20	132374	1750.2	66838	2150.2	QPSK	1	99	23.79	23.93
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	24.00	23.74

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Table 9-16
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	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			132072 (1720.0 MHz)	132322 (1745.0 MHz)	132572 (1770.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	18.33	18.70	19.03	0	0
	1	50	18.74	18.83	19.13		0
	1	99	18.83	18.75	19.01		0
	50	0	18.44	18.84	18.95	0-1	0
	50	25	18.78	18.95	18.96		0
	50	50	18.67	18.83	18.97		0
	100	0	18.69	18.88	18.95		0
16QAM	1	0	18.27	18.76	19.18	0-1	0
	1	50	18.70	18.92	19.20		0
	1	99	18.38	19.07	19.27		0
	50	0	18.47	18.74	18.89	0-2	0
	50	25	18.68	18.99	18.99		0
	50	50	18.75	18.96	19.05		0
	100	0	18.61	18.89	19.00		0
64QAM	1	0	18.35	18.83	19.12	0-2	0
	1	50	18.86	19.33	19.21		0
	1	99	18.71	18.90	19.08		0
	50	0	18.67	18.80	18.88	0-3	0
	50	25	18.88	18.87	19.09		0
	50	50	18.86	18.89	19.02		0
	100	0	18.71	18.86	18.92		0
256QAM	1	0	18.12	18.27	18.07	0-5	0.5
	1	50	18.46	18.28	18.73		0.5
	1	99	18.06	18.41	18.48		0.5
	50	0	18.35	18.34	18.45		0.5
	50	25	18.53	18.48	18.53		0.5
	50	50	18.40	18.42	18.49		0.5
	100	0	18.43	18.25	18.51		0.5

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Table 9-17

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	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			132022 (1715.0 MHz)	132322 (1745.0 MHz)	132622 (1775.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	18.54	18.77	18.84	0	0
	1	25	18.83	19.10	19.18		0
	1	49	18.68	18.90	19.03		0
	25	0	18.71	18.95	19.03	0-1	0
	25	12	18.85	19.01	19.19		0
	25	25	18.81	18.99	19.13		0
	50	0	18.83	18.97	19.12		0
16QAM	1	0	18.59	18.61	18.82	0-1	0
	1	25	18.77	18.83	19.04		0
	1	49	18.54	18.74	18.95		0
	25	0	18.47	18.72	18.83	0-2	0
	25	12	18.64	18.76	18.97		0
	25	25	18.61	18.79	18.82		0
	50	0	18.50	18.63	18.80		0
64QAM	1	0	18.48	18.58	18.71	0-2	0
	1	25	18.63	18.83	18.84		0
	1	49	18.43	18.78	18.78		0
	25	0	18.38	18.71	18.79	0-3	0
	25	12	18.68	18.81	18.85		0
	25	25	18.47	18.84	18.87		0
	50	0	18.64	18.74	18.90		0
256QAM	1	0	18.18	18.42	18.34	0-5	0.5
	1	25	18.43	18.57	18.47		0.5
	1	49	18.48	18.49	18.52		0.5
	25	0	18.28	18.39	18.64		0.5
	25	12	18.47	18.59	18.76		0.5
	25	25	18.36	18.57	18.66		0.5
	50	0	18.33	18.51	18.69		0.5

Table 9-18

LTE Band 66 (AWS) 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)

Combination	PCC Band	PCC Bandwidth [MHz]	PCC				Modulation	PCC UL RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC				Modulation	SCC UL RB	SCC UL RB Offset	Power	
			PCC (UL) Channel	PCC (UL) Frequency [MHz]	PCC DL Channel	PCC DL Frequency [MHz]						SCC (UL) Channel	SCC (UL) Frequency [MHz]	SCC (DL) Channel	SCC (DL) Frequency [MHz]				LTE Tx.Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA 66C	LTE B66	20	132322	1745.0	66786	2145.0	QPSK	1	99	LTE B66	20	132520	1764.8	66984	2164.8	QPSK	1	0	18.53	18.75
CA 66C	LTE B66	20	132322	1745.0	66786	2145.0	QPSK	50	0	LTE B66	20	132124	1725.2	66588	2125.2	QPSK	50	50	18.46	18.84
CA 66B	LTE B66	10	132322	1745.0	66786	2145.0	QPSK	1	49	LTE B66	10	132421	1754.9	66885	2154.9	QPSK	1	0	18.46	18.90
CA 66B	LTE B66	10	132322	1745.0	66786	2145.0	QPSK	25	0	LTE B66	10	132223	1735.1	66588	2135.1	QPSK	25	25	18.51	18.95

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9.3.8 LTE Band 25

Table 9-19
LTE Band 25 (PCS) Measured P_{Max} – 20 MHz Bandwidth

LTE Band 25 (PCS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26140 (1860.0 MHz)	26365 (1882.5 MHz)	26590 (1905.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	23.77	23.55	23.56	0	0
	1	50	23.74	23.43	23.54		0
	1	99	23.64	23.47	23.52		0
	50	0	22.77	22.55	22.60	0-1	1
	50	25	22.68	22.56	22.46		1
	50	50	22.62	22.52	22.49		1
	100	0	22.61	22.45	22.36		1
16QAM	1	0	22.75	22.49	22.58	0-1	1
	1	50	22.70	22.34	22.54		1
	1	99	22.62	22.45	22.63		1
	50	0	21.71	21.49	21.46	0-2	2
	50	25	21.69	21.48	21.50		2
	50	50	21.52	21.52	21.58		2
	100	0	21.50	21.46	21.41		2
64QAM	1	0	21.71	21.45	21.50	0-2	2
	1	50	21.74	21.30	21.53		2
	1	99	21.69	21.43	21.58		2
	50	0	20.73	20.54	20.47	0-3	3
	50	25	20.62	20.55	20.43		3
	50	50	20.62	20.45	20.54		3
	100	0	20.58	20.45	20.36		3
256QAM	1	0	18.37	18.12	18.21	0-5	5
	1	50	18.78	18.46	18.15		5
	1	99	18.30	18.13	18.18		5
	50	0	18.56	18.36	18.32		5
	50	25	18.59	18.51	18.43		5
	50	50	18.55	18.48	18.48		5
	100	0	18.48	18.41	18.42		5

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Table 9-20
LTE Band 25 (PCS) Measured P_{Limit} for DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack Active) - 20 MHz Bandwidth

LTE Band 25 (PCS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26140 (1860.0 MHz)	26365 (1882.5 MHz)	26590 (1905.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	19.60	19.36	19.43	0	0
	1	50	19.51	19.30	19.42		0
	1	99	19.48	19.25	19.30		0
	50	0	19.46	19.23	19.25	0-1	0
	50	25	19.44	19.31	19.28		0
	50	50	19.38	19.28	19.33		0
	100	0	19.37	19.21	19.17		0
16QAM	1	0	19.50	19.34	19.14	0-1	0
	1	50	19.45	19.43	19.27		0
	1	99	19.45	19.36	19.23		0
	50	0	19.53	19.32	19.26	0-2	0
	50	25	19.43	19.27	19.16		0
	50	50	19.34	19.28	19.35		0
	100	0	19.37	19.26	19.16		0
64QAM	1	0	19.55	19.38	19.34	0-2	0
	1	50	19.49	19.28	19.45		0
	1	99	19.47	19.25	19.33		0
	50	0	19.50	19.35	19.21	0-3	0
	50	25	19.45	19.34	19.25		0
	50	50	19.37	19.25	19.36		0
	100	0	19.33	19.22	19.11		0
256QAM	1	0	18.30	18.20	18.15	0-5	0.8
	1	50	18.69	18.61	18.53		0.8
	1	99	18.36	18.22	18.20		0.8
	50	0	18.51	18.36	18.31		0.8
	50	25	18.57	18.51	18.43		0.8
	50	50	18.58	18.45	18.52		0.8
	100	0	18.54	18.44	18.30		0.8

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Table 9-21
LTE Band 25 (PCS) Measured P_{Limit} DSI = 3 (Hotspot Mode) – 20 MHz Bandwidth

LTE Band 25 (PCS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26140 (1860.0 MHz)	26365 (1882.5 MHz)	26590 (1905.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	18.49	18.36	18.28	0	0
	1	50	18.57	18.27	18.31		0
	1	99	18.43	18.26	18.25		0
	50	0	18.51	18.32	18.23	0-1	0
	50	25	18.42	18.28	18.30		0
	50	50	18.31	18.22	18.32		0
	100	0	18.27	18.24	18.16		0
16QAM	1	0	18.50	18.36	18.17	0-1	0
	1	50	18.45	18.21	18.26		0
	1	99	18.40	18.20	18.29		0
	50	0	18.51	18.33	18.26	0-2	0
	50	25	18.45	18.33	18.24		0
	50	50	18.31	18.23	18.27		0
	100	0	18.35	18.28	18.16		0
64QAM	1	0	18.51	18.41	18.28	0-2	0
	1	50	18.53	18.31	18.33		0
	1	99	18.34	18.25	18.23		0
	50	0	18.52	18.34	18.21	0-3	0
	50	25	18.42	18.32	18.23		0
	50	50	18.40	18.28	18.27		0
	100	0	18.34	18.25	18.09		0
256QAM	1	0	17.99	17.94	17.88	0-5	0.3
	1	50	18.67	18.60	18.37		0.3
	1	99	18.03	17.99	18.06		0.3
	50	0	18.32	18.08	18.07		0.3
	50	25	18.45	18.28	18.25		0.3
	50	50	18.31	18.26	18.28		0.3
	100	0	18.26	18.20	18.16		0.3

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LTE Band 30 Antenna A

Table 9-22
LTE Band 30 Antenna A Measured P_{Max} – 10 MHz Bandwidth

LTE Band 30 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			27710 (2310.0 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	22.33	0	0
	1	25	22.44		0
	1	49	22.24		0
	25	0	21.29	0-1	1
	25	12	21.35		1
	25	25	21.21		1
	50	0	21.23		1
16QAM	1	0	21.56	0-1	1
	1	25	21.61		1
	1	49	21.56		1
	25	0	20.29	0-2	2
	25	12	20.41		2
	25	25	20.23		2
	50	0	20.24		2
64QAM	1	0	20.47	0-2	2
	1	25	20.60		2
	1	49	20.32		2
	25	0	19.27	0-3	3
	25	12	19.37		3
	25	25	19.25		3
	50	0	19.22		3
256QAM	1	0	17.19	0-5	5
	1	25	17.47		5
	1	49	17.15		5
	25	0	17.27		5
	25	12	17.37		5
	25	25	17.22		5
	50	0	17.25		5

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Table 9-23
LTE Band 30 Antenna A 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	MPR Allowed per 3GPP [dB]	MPR [dB]
			27710 (2310.0 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	20.04	0	0
	1	25	20.14		0
	1	49	19.89		0
	25	0	19.83	0-1	0
	25	12	19.96		0
	25	25	19.82		0
	50	0	19.88		0
16QAM	1	0	20.41	0-1	0
	1	25	20.25		0
	1	49	20.13		0
	25	0	19.91	0-2	0
	25	12	19.99		0
	25	25	19.84		0
	50	0	19.85		0
64QAM	1	0	20.13	0-2	0
	1	25	20.07		0
	1	49	19.86		0
	25	0	19.44	0-3	0.5
	25	12	19.47		0.5
	25	25	19.39		0.5
	50	0	19.37		0.5
256QAM	1	0	17.13	0-5	2.5
	1	25	17.76		2.5
	1	49	17.23		2.5
	25	0	17.36		2.5
	25	12	17.45		2.5
	25	25	17.44		2.5
	50	0	17.45		2.5

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Table 9-24
LTE Band 30 Antenna A Measured P_{Limit} for DSI = 3 (Hotspot Mode) - 10 MHz Bandwidth

LTE Band 30 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			27710 (2310.0 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	18.83	0	0
	1	25	18.86		0
	1	49	18.69		0
	25	0	18.73	0-1	0
	25	12	18.84		0
	25	25	18.69		0
	50	0	18.70		0
16QAM	1	0	19.08	0-1	0
	1	25	19.10		0
	1	49	18.83		0
	25	0	18.76	0-2	0
	25	12	18.88		0
	25	25	18.72		0
	50	0	18.76		0
64QAM	1	0	19.08	0-2	0
	1	25	19.16		0
	1	49	19.03		0
	25	0	18.77	0-3	0
	25	12	18.88		0
	25	25	18.76		0
	50	0	18.72		0
256QAM	1	0	17.30	0-5	1.5
	1	25	17.55		1.5
	1	49	17.42		1.5
	25	0	17.33		1.5
	25	12	17.31		1.5
	25	25	17.34		1.5
	50	0	17.24		1.5

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LTE Band 30 Antenna B

Table 9-25
LTE Band 30 Antenna B Measured P_{Max} – 10 MHz Bandwidth

LTE Band 30 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			27710 (2310.0 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	22.59	0	0
	1	25	22.67		0
	1	49	22.54		0
	25	0	21.53	0-1	1
	25	12	21.58		1
	25	25	21.57		1
	50	0	21.40		1
16QAM	1	0	21.93	0-1	1
	1	25	21.90		1
	1	49	21.79		1
	25	0	20.49	0-2	2
	25	12	20.56		2
	25	25	20.54		2
	50	0	20.41		2
64QAM	1	0	20.67	0-2	2
	1	25	20.92		2
	1	49	20.79		2
	25	0	19.43	0-3	3
	25	12	19.45		3
	25	25	19.47		3
	50	0	19.35		3
256QAM	1	0	17.32	0-5	5
	1	25	17.75		5
	1	49	17.36		5
	25	0	17.47		5
	25	12	17.61		5
	25	25	17.57		5
	50	0	17.42		5

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Table 9-26
LTE Band 30 Antenna B 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	MPR Allowed per 3GPP [dB]	MPR [dB]
			27710 (2310.0 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	20.30	0	0
	1	25	20.18		0
	1	49	19.95		0
	25	0	20.13	0-1	0
	25	12	20.07		0
	25	25	20.09		0
	50	0	20.02		0
16QAM	1	0	20.45	0-1	0
	1	25	20.27		0
	1	49	20.50		0
	25	0	20.05	0-2	0
	25	12	20.13		0
	25	25	20.10		0
	50	0	20.06		0
64QAM	1	0	20.25	0-2	0
	1	25	20.24		0
	1	49	20.28		0
	25	0	19.38	0-3	0.5
	25	12	19.34		0.5
	25	25	19.40		0.5
	50	0	19.30		0.5
256QAM	1	0	17.35	0-5	2.5
	1	25	17.65		2.5
	1	49	17.39		2.5
	25	0	17.38		2.5
	25	12	17.40		2.5
	25	25	17.33		2.5
	50	0	17.31		2.5

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Table 9-27
LTE Band 30 Antenna B Measured P_{Limit} for DSI = 3 (Hotspot Mode) - 10 MHz Bandwidth

LTE Band 30 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			27710 (2310.0 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	19.23	0	0
	1	25	19.24		0
	1	49	19.03		0
	25	0	19.17	0-1	0
	25	12	19.23		0
	25	25	19.16		0
	50	0	19.14		0
16QAM	1	0	19.49	0-1	0
	1	25	19.26		0
	1	49	19.39		0
	25	0	19.14	0-2	0
	25	12	19.21		0
	25	25	19.15		0
	50	0	19.04		0
64QAM	1	0	19.45	0-2	0
	1	25	19.36		0
	1	49	19.23		0
	25	0	19.08	0-3	0
	25	12	19.15		0
	25	25	19.13		0
	50	0	19.03		0
256QAM	1	0	17.45	0-5	1.5
	1	25	17.88		1.5
	1	49	17.26		1.5
	25	0	17.63		1.5
	25	12	17.65		1.5
	25	25	17.63		1.5
	50	0	17.65		1.5

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LTE Band 7

Table 9-28
LTE Band 7 Measured P_{Max} - 20 MHz Bandwidth

LTE Band 7 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20850 (2510.0 MHz)	21100 (2535.0 MHz)	21350 (2560.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	22.61	22.52	22.89	0	0
	1	50	22.80	23.01	22.72		0
	1	99	22.41	23.00	23.02		0
	50	0	21.56	21.58	21.83	0-1	1
	50	25	21.67	21.67	21.84		1
	50	50	21.58	21.71	21.85		1
	100	0	21.59	21.56	21.70		1
16QAM	1	0	21.80	21.78	22.02	0-1	1
	1	50	21.86	22.02	22.05		1
	1	99	21.75	21.97	21.73		1
	50	0	20.57	20.66	20.78	0-2	2
	50	25	20.71	20.67	20.87		2
	50	50	20.71	20.80	20.80		2
	100	0	20.61	20.54	20.73		2
64QAM	1	0	20.69	20.75	21.08	0-2	2
	1	50	20.54	20.96	21.15		2
	1	99	20.73	20.73	20.94		2
	50	0	19.52	19.72	19.78	0-3	3
	50	25	19.63	19.67	19.81		3
	50	50	19.60	19.71	19.80		3
	100	0	19.51	19.63	19.65		3
256QAM	1	0	17.15	17.36	17.65	0-5	5
	1	50	17.67	17.99	18.00		5
	1	99	17.54	17.65	17.27		5
	50	0	17.47	17.56	17.66		5
	50	25	17.60	17.67	17.80		5
	50	50	17.56	17.65	17.75		5
	100	0	17.59	17.53	17.68		5

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Table 9-29
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	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20850 (2510.0 MHz)	21100 (2535.0 MHz)	21350 (2560.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	19.00	18.95	19.27	0	0
	1	50	18.96	18.97	19.08		0
	1	99	18.73	19.26	19.05		0
	50	0	18.82	18.87	18.95	0-1	0
	50	25	18.94	18.82	19.01		0
	50	50	18.80	18.95	18.98		0
	100	0	18.82	18.76	18.83		0
16QAM	1	0	19.00	18.99	19.27	0-1	0
	1	50	19.10	19.15	19.39		0
	1	99	18.98	19.26	19.31		0
	50	0	18.81	18.93	19.08	0-2	0
	50	25	18.98	18.96	19.01		0
	50	50	18.80	18.94	18.99		0
	100	0	18.83	18.84	18.82		0
64QAM	1	0	18.97	19.15	19.34	0-2	0
	1	50	19.13	19.00	19.30		0
	1	99	19.01	19.17	19.08		0
	50	0	18.80	18.88	19.01	0-3	0
	50	25	18.96	18.83	18.91		0
	50	50	18.86	18.89	18.90		0
	100	0	18.87	18.74	18.85		0
256QAM	1	0	17.01	17.50	17.48	0-5	1.5
	1	50	17.57	17.81	17.56		1.5
	1	99	17.07	17.48	17.18		1.5
	50	0	17.27	17.32	17.50		1.5
	50	25	17.40	17.41	17.41		1.5
	50	50	17.29	17.37	17.40		1.5
	100	0	17.25	17.34	17.36		1.5

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LTE Band 41

Table 9-30
LTE Band 41 PC3 Measured P_{Max} – 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	23.53	23.88	23.56	23.48	23.40	0	0
	1	50	23.55	24.01	24.06	23.98	23.79		0
	1	99	23.59	23.92	23.68	23.44	23.49		0
	50	0	22.60	22.84	22.77	22.76	22.48	0-1	1
	50	25	22.65	22.94	23.01	22.95	22.66		1
	50	50	22.63	22.90	22.94	22.76	22.70		1
	100	0	22.57	22.82	22.90	22.78	22.52		1
16QAM	1	0	22.64	23.00	22.60	22.63	22.46	0-1	1
	1	50	22.77	23.10	23.09	23.00	23.07		1
	1	99	22.66	22.91	22.72	22.42	22.76		1
	50	0	21.63	21.85	21.78	21.77	21.47	0-2	2
	50	25	21.67	21.97	22.04	21.95	21.68		2
	50	50	21.67	21.89	21.94	21.75	21.74		2
	100	0	21.61	21.82	21.87	21.80	21.57		2
64QAM	1	0	21.75	21.95	21.48	21.41	21.36	0-2	2
	1	50	21.62	22.03	21.96	21.85	21.68		2
	1	99	21.63	21.86	21.59	21.37	21.40		2
	50	0	20.62	20.84	20.76	20.75	20.47	0-3	3
	50	25	20.63	20.93	21.02	20.92	20.64		3
	50	50	20.61	20.89	20.94	20.76	20.70		3
	100	0	20.61	20.83	20.88	20.78	20.52		3
256QAM	1	0	18.38	18.44	18.41	18.55	18.34	0-5	5
	1	50	18.76	18.95	18.89	18.96	18.69		5
	1	99	18.42	18.55	18.77	18.34	18.35		5
	50	0	18.51	18.71	18.75	18.69	18.45		5
	50	25	18.70	18.88	18.98	18.85	18.61		5
	50	50	18.58	18.73	18.88	18.70	18.66		5
	100	0	18.58	18.81	18.85	18.75	18.51		5

Table 9-31
LTE Band 41 PC2 Measured P_{Max} – 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	25.41	25.48	25.06	25.20	25.09	0	0
	1	50	25.43	25.55	25.65	25.53	25.48		0
	1	99	25.46	25.43	25.24	25.04	25.49		0
	50	0	24.29	24.42	24.23	24.35	24.22	0-1	1
	50	25	24.44	24.46	24.42	24.44	24.38		1
	50	50	24.42	24.41	24.36	24.28	24.44		1
	100	0	24.35	24.34	24.36	24.33	24.30		1

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Table 9-32
LTE Band 41 Uplink Carrier Aggregation Measured P_{Max}

Combination	PCC								SCC						Power	
	PCC Band	PCC Bandwidth [MHz]	PCC (UL/DL) Channel	PCC (UL/DL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL/DL) Channel	SCC (UL/DL) Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx.Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_41C	LTE B41	20	39750	2506.0	QPSK	1	99	LTE B41	20	39948	2525.8	QPSK	1	0	23.80	23.59
CA_41C	LTE B41	20	40620	2593.0	QPSK	1	99	LTE B41	20	40818	2612.8	QPSK	1	0	23.78	23.68

Combination	PCC								SCC						Power	
	PCC Band	PCC Bandwidth [MHz]	PCC (UL/DL) Channel	PCC (UL/DL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL/DL) Channel	SCC (UL/DL) Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx.Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_41C	LTE B41 PC2	20	39750	2506.0	QPSK	1	99	LTE B41 PC2	20	39948	2525.8	QPSK	1	0	25.48	25.46
CA_41C	LTE B41 PC2	20	40620	2593.0	QPSK	1	99	LTE B41 PC2	20	40818	2612.8	QPSK	1	0	25.54	25.24

Table 9-33
LTE Band 41 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 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	20.72	20.90	20.55	20.55	20.30	0	0
	1	50	20.77	20.98	21.01	20.75	20.70		0
	1	99	20.83	20.92	20.65	20.20	20.50		0
	50	0	20.74	20.85	20.77	20.40	20.32	0-1	0
	50	25	20.84	20.90	20.96	20.73	20.56		0
	50	50	20.80	20.91	20.88	20.54	20.65		0
	100	0	20.74	20.84	20.87	20.65	20.51		0
16QAM	1	0	20.79	20.80	20.47	20.59	20.63	0-1	0
	1	50	20.77	20.83	21.00	20.85	20.71		0
	1	99	20.61	20.89	20.56	20.36	20.51		0
	50	0	20.72	20.67	20.79	20.73	20.70	0-2	0
	50	25	20.88	20.83	21.01	20.80	20.80		0
	50	50	20.81	20.81	20.87	20.67	20.64		0
	100	0	20.76	20.70	20.86	20.65	20.34		0
64QAM	1	0	20.85	20.69	20.50	20.63	20.87	0-2	0
	1	50	20.90	20.72	20.92	20.88	20.77		0
	1	99	20.84	20.77	20.59	20.70	20.47		0
	50	0	20.67	20.72	20.77	20.75	20.67	0-3	0
	50	25	20.77	20.75	20.96	20.89	20.66		0
	50	50	20.75	20.80	20.81	20.66	20.56		0
	100	0	20.70	20.69	20.84	20.74	20.61		0
256QAM	1	0	18.19	18.34	18.50	18.39	18.12	0-5	2
	1	50	18.60	18.77	18.81	18.63	18.52		2
	1	99	18.50	18.33	18.51	18.19	18.42		2
	50	0	18.46	18.65	18.65	18.52	18.30		2
	50	25	18.70	18.52	18.89	18.64	18.46		2
	50	50	18.71	18.70	18.75	18.50	18.60		2
	100	0	18.60	18.68	18.77	18.57	18.57		2

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Table 9-34

LTE Band 41 PC2 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 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	22.44	22.65	22.39	22.37	22.19	0	0
	1	50	22.68	22.69	22.70	22.55	22.65		0
	1	99	22.56	22.71	22.78	22.25	22.53		0
	50	0	22.43	22.54	22.48	22.35	22.18	0-1	0
	50	25	22.54	22.64	22.68	22.45	22.30		0
	50	50	22.51	22.60	22.52	22.21	22.40		0
	100	0	22.42	22.55	22.55	22.38	22.17		0

Table 9-35

LTE Band 41 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) - 20 MHz Bandwidth

Combination	PCC							SCC							Power	
	PCC Band	PCC Bandwidth [MHz]	PCC (UL/DL) Channel	PCC (UL/DL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL/DL) Channel	SCC (UL/DL) Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx.Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_41C	LTE B41	20	40620	2593.0	QPSK	50	50	LTE B41	20	40818	2612.8	QPSK	50	0	20.71	20.88
Combination	PCC							SCC							Power	
	PCC Band	PCC Bandwidth [MHz]	PCC (UL/DL) Channel	PCC (UL/DL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL/DL) Channel	SCC (UL/DL) Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx.Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_41C	LTE B41 PC2	20	40620	2593.0	QPSK	50	50	LTE B41 PC2	20	40818	2612.8	QPSK	50	0	22.42	22.52

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9.3.13 LTE Band 48

Table 9-36

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	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	19.02	18.98	19.01	19.06	0	0
	1	50	19.07	19.14	19.21	19.16		0
	1	99	19.04	19.02	19.02	19.10		0
	50	0	18.84	19.04	19.01	19.03	0-1	0
	50	25	19.05	19.19	19.27	19.12		0
	50	50	18.99	19.06	19.15	19.08		0
	100	0	18.94	19.09	19.02	19.02		0
16QAM	1	0	19.00	19.02	19.41	19.18	0-1	0
	1	50	19.14	19.18	19.32	19.31		0
	1	99	19.21	19.07	19.29	19.27		0
	50	0	18.89	19.06	19.07	19.05	0-2	0
	50	25	19.08	19.27	19.26	19.12		0
	50	50	19.05	19.12	19.14	19.10		0
	100	0	18.97	19.10	19.08	19.04		0
64QAM	1	0	19.05	19.04	19.16	19.08	0-2	0
	1	50	19.15	19.17	19.29	19.14		0
	1	99	19.07	19.15	19.14	19.16		0
	50	0	18.89	19.09	19.02	19.03	0-3	0
	50	25	19.12	19.24	19.23	19.12		0
	50	50	19.01	19.14	19.13	19.08		0
	100	0	18.95	19.11	19.12	19.01		0
256QAM	1	0	17.07	17.35	17.25	17.27	0-5	1.5
	1	50	17.63	17.69	17.80	17.64		1.5
	1	99	17.26	17.36	17.44	17.30		1.5
	50	0	17.39	17.55	17.56	17.56		1.5
	50	25	17.58	17.71	17.75	17.62		1.5
	50	50	17.55	17.57	17.69	17.58		1.5
	100	0	17.48	17.58	17.54	17.55		1.5

Table 9-37

LTE Band 48 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) - 20 MHz Bandwidth

Combination	PCC							SCC							Power	
	PCC Band	PCC Bandwidth [MHz]	PCC (UL/DL) Channel	PCC (UL/DL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL/DL) Channel	SCC (UL/DL) Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx. Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_48C	LTE B48	20	56207	3646.7	QPSK	1	99	LTE B48	20	56405	3666.5	QPSK	1	0	19.00	19.02

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Table 9-38
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	16.83	17.01	16.95	17.28	0	0
	1	50	16.94	17.09	17.04	17.43		0
	1	99	16.86	17.11	17.05	17.27		0
	50	0	16.83	16.96	16.96	17.21	0-1	0
	50	25	16.97	17.13	17.15	17.30		0
	50	50	16.86	17.03	17.00	17.27		0
	100	0	16.85	17.00	17.02	17.20		0
16QAM	1	0	16.84	16.96	16.92	17.34	0-1	0
	1	50	16.97	17.10	17.23	17.52		0
	1	99	16.88	17.07	17.05	17.25		0
	50	0	16.87	16.96	16.94	17.19	0-2	0
	50	25	16.97	17.16	17.13	17.29		0
	50	50	16.87	17.00	17.02	17.23		0
	100	0	16.83	17.01	17.01	17.19		0
64QAM	1	0	16.82	16.86	16.76	17.15	0-2	0
	1	50	16.80	17.05	16.95	17.36		0
	1	99	16.78	17.01	16.96	17.21		0
	50	0	16.76	16.97	16.95	17.23	0-3	0
	50	25	16.90	17.14	17.16	17.33		0
	50	50	16.85	17.07	17.00	17.23		0
	100	0	16.83	17.03	16.99	17.21		0
256QAM	1	0	16.78	16.83	16.85	16.88	0-5	0
	1	50	16.98	17.05	17.05	17.25		0
	1	99	16.77	16.88	16.84	16.93		0
	50	0	16.78	16.98	17.01	17.22		0
	50	25	16.93	17.15	17.18	17.27		0
	50	50	16.89	17.00	17.00	17.24		0
	100	0	16.85	17.04	17.04	17.21		0

Table 9-39
LTE Band 48 Uplink Carrier Aggregation Measured P_{Limit} for DSI = 2 (Head) - 20 MHz Bandwidth

Combination	PCC				Modulation	PCC UL# RB	PCC UL RB Offset	SCC				Modulation	SCC UL# RB	SCC UL RB Offset	Power	
	PCC Band	PCC Bandwidth [MHz]	PCC (UL/DL) Channel	PCC (UL/DL) Frequency [MHz]				SCC Band	SCC Bandwidth [MHz]	SCC (UL/DL) Channel	SCC (UL/DL) Frequency [MHz]				LTE Tx Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_48C	LTE B48	20	56640	3690.0	QPSK	50	0	LTE B48	20	56442	3670.2	QPSK	50	50	17.47	17.21



Figure 9-3
Power Measurement Setup

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9.4 NR Conducted Powers

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

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

9.4.1 NR Band n71

Table 9-40
NR Band n71 Measured P_{Max} for all DSI - 20 MHz Bandwidth

NR Band n71 20 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			136100 (680.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	24.48	0	0.0
	1	53	24.43		0.0
	1	104	24.38		0.0
	50	0	24.09	0-0.5	0.5
	50	28	24.44	0	0.0
	50	56	23.89	0-0.5	0.5
	100	0	24.01		0.5
DFT-s-OFDM QPSK	1	1	24.22	0	0.0
	1	53	24.23		0.0
	1	104	24.16		0.0
	50	0	23.48	0-1	1.0
	50	28	24.40	0	0.0
	50	56	23.39	0-1	1.0
	100	0	23.49		1.0
DFT-s-OFDM 16QAM	1	1	23.92	0-1	1.0
CP-OFDM QPSK	1	1	22.89	0-1.5	1.5

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9.4.2 NR Band n12

Table 9-41
NR Band n12 Measured P_{Max} for all DSI - 15 MHz Bandwidth

NR Band n12 15 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			141500 (707.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	24.14	0	0.0
	1	40	24.22		0.0
	1	77	24.18		0.0
	36	0	23.79	0-0.5	0.5
	36	22	24.39	0	0.0
	36	43	23.78	0-0.5	0.5
	75	0	23.95		0.5
DFT-s-OFDM QPSK	1	1	24.09	0	0.0
	1	40	24.16		0.0
	1	77	24.13		0.0
	36	0	23.37	0-1	1.0
	36	22	24.37	0	0.0
	36	43	23.35	0-1	1.0
	75	0	23.41		1.0
DFT-s-OFDM 16QAM	1	1	23.59	0-1	1.0
CP-OFDM QPSK	1	1	22.65	0-1.5	1.5

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9.4.3 NR Band n5

Table 9-42
NR Band n5 Measured P_{Max} for all DSI - 20 MHz Bandwidth

NR Band n5 20 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			167300 (836.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	24.17	0	0.0
	1	53	24.03		0.0
	1	104	23.69		0.0
	50	0	23.71	0-0.5	0.5
	50	28	24.12	0	0.0
	50	56	23.47	0-0.5	0.5
	100	0	23.63		0.5
DFT-s-OFDM QPSK	1	1	24.08	0	0.0
	1	53	23.90		0.0
	1	104	23.65		0.0
	50	0	23.18	0-1	1.0
	50	28	24.13	0	0.0
	50	56	23.01	0-1	1.0
	100	0	23.10		1.0
DFT-s-OFDM 16QAM	1	1	23.60	0-1	1.0
CP-OFDM QPSK	1	1	22.77	0-1.5	1.5

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9.4.4 NR Band n66 Antenna A

Table 9-43

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

NR Band n66 40 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			349000 (1745 MHz) Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	22.90	0	0.0
	1	108	22.86		0.0
	1	214	22.82		0.0
	108	0	22.86	0-0.5	0.0
	108	54	22.84	0	0.0
	108	108	23.01	0-0.5	0.0
	216	0	22.90		0.0
DFT-s-OFDM QPSK	1	1	22.69	0	0.0
	1	108	22.63		0.0
	1	214	22.80		0.0
	108	0	22.73	0-1	0.0
	108	54	22.77	0	0.0
	108	108	22.94	0-1	0.0
	216	0	22.79		0.0
DFT-s-OFDM 16QAM	1	1	22.93	0-1	0.0
CP-OFDM QPSK	1	1	22.64	0-1.5	0.0

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Table 9-44
NR Band n66 Antenna A Measured P_{Limit} for DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack Active) - 40 MHz Bandwidth

NR Band n66 40 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			349000 (1745 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	19.75	0	0.0
	1	108	19.94		0.0
	1	214	19.93		0.0
	108	0	19.80	0-0.5	0.0
	108	54	19.85	0	0.0
	108	108	19.97	0-0.5	0.0
	216	0	19.91		0.0
DFT-s-OFDM QPSK	1	1	19.61	0	0.0
	1	108	19.77		0.0
	1	214	19.73		0.0
	108	0	19.82	0-1	0.0
	108	54	19.84	0	0.0
	108	108	19.96	0-1	0.0
	216	0	19.76		0.0
DFT-s-OFDM 16QAM	1	1	19.98	0-1	0.0
CP-OFDM QPSK	1	1	19.59	0-1.5	0.0

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Table 9-45

NR Band n66 Antenna A Measured P_{Limit} for DSI = 3 (Hotspot Mode) - 40 MHz Bandwidth

NR Band n66 40 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			349000 (1745 MHz) Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	18.58	0	0.0
	1	108	18.57		0.0
	1	214	18.43		0.0
	108	0	18.65	0-0.5	0.0
	108	54	18.68	0	0.0
	108	108	18.72	0-0.5	0.0
	216	0	18.74		0.0
DFT-s-OFDM QPSK	1	1	18.45	0	0.0
	1	108	18.61		0.0
	1	214	18.51		0.0
	108	0	18.58	0-1	0.0
	108	54	18.71	0	0.0
	108	108	18.73	0-1	0.0
	216	0	18.60		0.0
DFT-s-OFDM 16QAM	1	1	18.89	0-1	0.0
CP-OFDM QPSK	1	1	18.45	0-1.5	0.0

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9.4.5 NR Band n66 Antenna F

Table 9-46

NR Band n66 Antenna F 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) - 40 MHz Bandwidth

NR Band n66 40 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			349000 (1745 MHz) Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	20.14	0	0.0
	1	108	20.11		0.0
	1	214	20.17		0.0
	108	0	20.26	0-0.5	0.0
	108	54	20.27	0	0.0
	108	108	20.41	0-0.5	0.0
	216	0	20.29		0.0
DFT-s-OFDM QPSK	1	1	20.04	0	0.0
	1	108	20.02		0.0
	1	214	20.22		0.0
	108	0	20.27	0-1	0.0
	108	54	20.30	0	0.0
	108	108	20.38	0-1	0.0
	216	0	20.21		0.0
DFT-s-OFDM 16QAM	1	1	20.50	0-1	0.0
CP-OFDM QPSK	1	1	20.14	0-1.5	0.0

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Table 9-47
NR Band n66 Antenna F Measured P_{Limit} for DSI = 2 (Head) - 40 MHz Bandwidth

NR Band n66 40 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			349000 (1745 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	18.03	0	0.0
	1	108	18.01		0.0
	1	214	18.05		0.0
	108	0	18.18	0-0.5	0.0
	108	54	18.23	0	0.0
	108	108	18.22	0-0.5	0.0
	216	0	18.19		0.0
DFT-s-OFDM QPSK	1	1	18.19	0	0.0
	1	108	18.05		0.0
	1	214	18.09		0.0
	108	0	18.17	0-1	0.0
	108	54	18.20	0	0.0
	108	108	18.27	0-1	0.0
	216	0	18.18		0.0
DFT-s-OFDM 16QAM	1	1	18.30	0-1	0.0
CP-OFDM QPSK	1	1	18.00	0-1.5	0.0

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9.4.6 NR Band n25 Antenna A

Table 9-48
NR Band n25 Antenna A Measured P_{Max} 40 MHz Bandwidth

NR Band n25 40 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			376500 (1882.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	23.85	0	0.0
	1	108	23.72		0.0
	1	214	23.76		0.0
	108	0	23.52	0-0.5	0.5
	108	54	24.03	0	0.0
	108	108	23.46	0-0.5	0.5
	216	0	23.51		0.5
DFT-s-OFDM QPSK	1	1	23.75	0	0.0
	1	108	23.76		0.0
	1	214	23.70		0.0
	108	0	23.02	0-1	1.0
	108	54	24.11	0	0.0
	108	108	23.00	0-1	1.0
	216	0	23.08		1.0
DFT-s-OFDM 16QAM	1	1	23.39	0-1	1.0
CP-OFDM QPSK	1	1	22.57	0-1.5	1.5

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Table 9-49
NR Band n25 Antenna A Measured P_{Limit} for DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack Active) - 40 MHz Bandwidth

NR Band n25 40 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			376500 (1882.5 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	19.82	0	0.0
	1	108	19.94		0.0
	1	214	19.87		0.0
	108	0	19.97	0-0.5	0.0
	108	54	19.95	0	0.0
	108	108	20.00	0-0.5	0.0
	216	0	19.97		0.0
DFT-s-OFDM QPSK	1	1	19.74	0	0.0
	1	108	19.90		0.0
	1	214	19.70		0.0
	108	0	19.95	0-1	0.0
	108	54	20.00	0	0.0
	108	108	19.99	0-1	0.0
	216	0	19.89		0.0
DFT-s-OFDM 16QAM	1	1	20.00	0-1	0.0
CP-OFDM QPSK	1	1	19.86	0-1.5	0.0

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Table 9-50

NR Band n25 Antenna A Measured P_{Limit} for DSI = 3 (Hotspot Mode) - 40 MHz Bandwidth

NR Band n25 40 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			376500 (1882.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	17.82	0	0.0
	1	108	17.82		0.0
	1	214	17.81		0.0
	108	0	18.00	0-0.5	0.0
	108	54	17.82	0	0.0
	108	108	17.98	0-0.5	0.0
	216	0	17.93		0.0
DFT-s-OFDM QPSK	1	1	17.81	0	0.0
	1	108	17.68		0.0
	1	214	17.57		0.0
	108	0	17.90	0-1	0.0
	108	54	17.86	0	0.0
	108	108	17.94	0-1	0.0
	216	0	17.80		0.0
DFT-s-OFDM 16QAM	1	1	17.87	0-1	0.0
CP-OFDM QPSK	1	1	17.80	0-1.5	0.0

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9.4.7 NR Band n25 Antenna F

Table 9-51

NR Band n25 Antenna F 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) - 40 MHz Bandwidth

NR Band n25 40 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			376500 (1882.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	21.29	0	0.0
	1	108	21.38		0.0
	1	214	21.23		0.0
	108	0	21.47	0-0.5	0.0
	108	54	21.46	0	0.0
	108	108	21.48	0-0.5	0.0
	216	0	21.43		0.0
DFT-s-OFDM QPSK	1	1	21.33	0	0.0
	1	108	21.39		0.0
	1	214	21.27		0.0
	108	0	21.50	0-1	0.0
	108	54	21.45	0	0.0
	108	108	21.49	0-1	0.0
	216	0	21.38		0.0
DFT-s-OFDM 16QAM	1	1	21.26	0-1	0.0
CP-OFDM QPSK	1	1	21.29	0-1.5	0.0

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Table 9-52
NR Band n25 Antenna F Measured P_{Limit} for DSI = 2 (Head) - 40 MHz Bandwidth

NR Band n25 40 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			376500 (1882.5 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	20.17	0	0.0
	1	108	20.22		0.0
	1	214	20.11		0.0
	108	0	20.32	0-0.5	0.0
	108	54	20.34	0	0.0
	108	108	20.42	0-0.5	0.0
	216	0	20.30		0.0
DFT-s-OFDM QPSK	1	1	20.16	0	0.0
	1	108	20.33		0.0
	1	214	20.22		0.0
	108	0	20.34	0-1	0.0
	108	54	20.36	0	0.0
	108	108	20.41	0-1	0.0
	216	0	20.32		0.0
DFT-s-OFDM 16QAM	1	1	20.50	0-1	0.0
CP-OFDM QPSK	1	1	20.12	0-1.5	0.0

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9.4.8

NR Band n30 Antenna A

Table 9-53
NR Band n30 Antenna A Measured P_{Max} - 10 MHz Bandwidth

NR Band n30 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			462000 (2310 MHz) Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	22.38	0	0.0
	1	26	22.43		0.0
	1	50	22.42		0.0
	25	0	22.00	0-0.5	0.5
	25	14	22.55	0	0.0
	25	27	22.01	0-0.5	0.5
	50	0	22.09		0.5
DFT-s-OFDM QPSK	1	1	22.43	0	0.0
	1	26	22.34		0.0
	1	50	22.28		0.0
	25	0	21.43	0-1	1.0
	25	14	22.55	0	0.0
	25	27	21.53	0-1	1.0
	50	0	21.55		1.0
DFT-s-OFDM 16QAM	1	1	21.87	0-1	1.0
CP-OFDM QPSK	1	1	20.94	0-1.5	1.5

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Table 9-54

NR Band n30 Antenna A Measured P_{Limit} for DSI = 1 (Phablet with Grip Sensor Active), DSI = 3 (Hotspot Mode), and/or DSI = 4 (Earjack Active) - 10 MHz Bandwidth

NR Band n30 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			462000 (2310 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	18.47	0	0.0
	1	26	18.49		0.0
	1	50	18.42		0.0
	25	0	18.44	0-0.5	0.0
	25	14	18.51	0	0.0
	25	27	18.48	0-0.5	0.0
	50	0	18.49		0.0
DFT-s-OFDM QPSK	1	1	18.35	0	0.0
	1	26	18.43		0.0
	1	50	18.27		0.0
	25	0	18.38	0-1	0.0
	25	14	18.50	0	0.0
	25	27	18.42	0-1	0.0
	50	0	18.42		0.0
DFT-s-OFDM 16QAM	1	1	18.79	0-1	0.0
CP-OFDM QPSK	1	1	18.38	0-1.5	0.0

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NR Band n30 Antenna B

Table 9-55
NR Band n30 Antenna B Measured P_{Max} - 10 MHz Bandwidth

NR Band n30 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			462000 (2310 MHz) Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	22.97	0	0.0
	1	26	22.88		0.0
	1	50	22.89		0.0
	25	0	22.51	0-0.5	0.5
	25	14	22.98	0	0.0
	25	27	22.53	0-0.5	0.5
	50	0	22.53		0.5
DFT-s-OFDM QPSK	1	1	23.35	0	0.0
	1	26	23.02		0.0
	1	50	22.54		0.0
	25	0	22.08	0-1	1.0
	25	14	22.88	0	0.0
	25	27	22.09	0-1	1.0
	50	0	22.11		1.0
DFT-s-OFDM 16QAM	1	1	22.16	0-1	1.0
CP-OFDM QPSK	1	1	21.78	0-1.5	1.5

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Table 9-56
NR Band n30 Antenna B Measured P_{Limit} for DSI = 1 (Phablet with Grip Sensor Active), DSI = 3 (Hotspot Mode), and/or DSI = 4 (Earjack Active) - 10 MHz Bandwidth

NR Band n30 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			462000 (2310 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	19.04	0	0.0
	1	26	19.10		0.0
	1	50	19.15		0.0
	25	0	19.03	0-0.5	0.0
	25	14	19.07	0	0.0
	25	27	19.10	0-0.5	0.0
	50	0	19.08		0.0
DFT-s-OFDM QPSK	1	1	18.96	0	0.0
	1	26	19.10		0.0
	1	50	18.95		0.0
	25	0	19.05	0-1	0.0
	25	14	19.15	0	0.0
	25	27	19.05	0-1	0.0
	50	0	19.09		0.0
DFT-s-OFDM 16QAM	1	1	19.18	0-1	0.0
CP-OFDM QPSK	1	1	19.03	0-1.5	0.0

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9.4.10 NR Band n30 Antenna F

Table 9-57

NR Band n30 Antenna F 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)- 10 MHz Bandwidth

NR Band n30 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			462000 (2310 MHz) Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	21.95	0	0.0
	1	26	21.93		0.0
	1	50	21.94		0.0
	25	0	21.97	0-0.5	0.0
	25	14	21.98	0	0.0
	25	27	21.93	0-0.5	0.0
	50	0	21.92		0.0
DFT-s-OFDM QPSK	1	1	21.85	0	0.0
	1	26	21.91		0.0
	1	50	21.87		0.0
	25	0	21.93	0-1	0.5
	25	14	21.96	0	0.0
	25	27	21.95	0-1	0.5
	50	0	21.90		0.5
DFT-s-OFDM 16QAM	1	1	22.00	0-1	0.5
CP-OFDM QPSK	1	1	21.34	0-1.5	1.0

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Table 9-58

NR Band n30 Antenna F Measured P_{Limit} for DSI = 3 (Hotspot Mode) - 10 MHz Bandwidth

NR Band n30 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			462000 (2310 MHz) Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	21.25	0	0.0
	1	26	21.28		0.0
	1	50	21.26		0.0
	25	0	21.37	0-0.5	0.0
	25	14	21.35	0	0.0
	25	27	21.32	0-0.5	0.0
	50	0	21.34		0.0
DFT-s-OFDM QPSK	1	1	21.29	0	0.0
	1	26	21.18		0.0
	1	50	21.17		0.0
	25	0	21.37	0-1	0.0
	25	14	21.40	0	0.0
	25	27	21.38	0-1	0.0
	50	0	21.28		0.0
DFT-s-OFDM 16QAM	1	1	21.63	0-1	0.0
CP-OFDM QPSK	1	1	21.27	0-1.5	0.5

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Table 9-59
NR Band n30 Antenna F Measured P_{Limit} for DSI = 2 (Head) - 10 MHz Bandwidth

NR Band n30 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			462000 (2310 MHz) Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	18.27	0	0.0
	1	26	18.22		0.0
	1	50	18.21		0.0
	25	0	18.30	0-0.5	0.0
	25	14	18.30	0	0.0
	25	27	18.22	0-0.5	0.0
	50	0	18.29		0.0
DFT-s-OFDM QPSK	1	1	18.28	0	0.0
	1	26	18.15		0.0
	1	50	18.17		0.0
	25	0	18.33	0-1	0.0
	25	14	18.31	0	0.0
	25	27	18.29	0-1	0.0
	50	0	18.27		0.0
DFT-s-OFDM 16QAM	1	1	18.64	0-1	0.0
CP-OFDM QPSK	1	1	18.32	0-1.5	0.0

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9.4.11 NR Band n7

Table 9-60
NR Band n7 Measured P_{Limit} for DSI = 0 (Body-worn, or Phablet with grip sensor inactive) or DSI = 2 (Head)- 40 MHz Bandwidth

NR Band n7 40 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			507000 (2535 MHz) Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	22.26	0	0.0
	1	108	22.13		0.0
	1	214	22.17		0.0
	108	0	22.25	0-0.5	0.0
	108	54	22.20	0	0.0
	108	108	22.24	0-0.5	0.0
	216	0	22.15		0.0
DFT-s-OFDM QPSK	1	1	22.26	0	0.0
	1	108	22.17		0.0
	1	214	22.33		0.0
	108	0	22.30	0-1	0.0
	108	54	22.36	0	0.0
	108	108	22.32	0-1	0.0
	216	0	22.21		0.0
DFT-s-OFDM 16QAM	1	1	22.31	0-1	0.0
CP-OFDM QPSK	1	1	21.73	0-1.5	0.0

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Table 9-61
NR Band n7 Measured P_{Limit} for DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack Active)-
40 MHz Bandwidth

NR Band n7 40 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			507000 (2535 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	20.09	0	0.0
	1	108	20.30		0.0
	1	214	20.16		0.0
	108	0	20.10	0-0.5	0.0
	108	54	20.15	0	0.0
	108	108	20.15	0-0.5	0.0
	216	0	20.10		0.0
DFT-s-OFDM QPSK	1	1	19.99	0	0.0
	1	108	19.94		0.0
	1	214	20.15		0.0
	108	0	20.10	0-1	0.0
	108	54	20.12	0	0.0
	108	108	20.19	0-1	0.0
	216	0	20.02		0.0
DFT-s-OFDM 16QAM	1	1	20.40	0-1	0.0
CP-OFDM QPSK	1	1	20.11	0-1.5	0.0

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Table 9-62
NR Band n7 Measured P_{Limit} for DSI = 3 (Hotspot Mode)- 40 MHz Bandwidth

NR Band n7 40 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			507000 (2535 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	18.43	0	0.0
	1	108	18.28		0.0
	1	214	18.32		0.0
	108	0	18.39	0-0.5	0.0
	108	54	18.31	0	0.0
	108	108	18.30	0-0.5	0.0
	216	0	18.33		0.0
DFT-s-OFDM QPSK	1	1	18.21	0	0.0
	1	108	18.12		0.0
	1	214	18.31		0.0
	108	0	18.36	0-1	0.0
	108	54	18.31	0	0.0
	108	108	18.37	0-1	0.0
	216	0	18.30		0.0
DFT-s-OFDM 16QAM	1	1	18.83	0-1	0.0
CP-OFDM QPSK	1	1	18.35	0-1.5	0.0

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9.4.12 NR Band n41 Antenna F

Table 9-63

NR Band n41 Antenna F 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) - 100 MHz Bandwidth

NR Band n41 100 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			518598 (2592.99 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	20.56	0	0.0
	1	137	20.35		0.0
	1	271	20.21		0.0
	135	0	20.45	0-0.5	0.0
	135	69	20.40	0	0.0
	135	138	20.26	0-0.5	0.0
	270	0	20.35		0.0
DFT-s-OFDM QPSK	1	1	20.56	0	0.0
	1	137	20.34		0.0
	1	271	20.17		0.0
	135	0	20.45	0-1	0.0
	135	69	20.36	0	0.0
	135	138	20.23	0-1	0.0
	270	0	20.30		0.0
DFT-s-OFDM 16QAM	1	1	20.39	0-1	0.0
CP-OFDM QPSK	1	1	20.54	0-1.5	0.0

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Table 9-64
NR Band n41 Antenna F Measured P_{Limit} for DSI = 2 (Head) - 100 MHz Bandwidth

NR Band n41 100 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			518598 (2592.99 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	18.40	0	0.0
	1	137	18.22		0.0
	1	271	18.11		0.0
	135	0	18.32	0-0.5	0.0
	135	69	18.30	0	0.0
	135	138	18.17	0-0.5	0.0
	270	0	18.27		0.0
DFT-s-OFDM QPSK	1	1	18.45	0	0.0
	1	137	18.27		0.0
	1	271	18.11		0.0
	135	0	18.37	0-1	0.0
	135	69	18.31	0	0.0
	135	138	18.19	0-1	0.0
	270	0	18.29		0.0
DFT-s-OFDM 16QAM	1	1	18.35	0-1	0.0
CP-OFDM QPSK	1	1	18.46	0-1.5	0.0

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9.4.13 NR Band n41 Antenna B

Table 9-65
NR Band n41 Antenna B Measured P_{Limit} for all DSI - 100 MHz Bandwidth

NR Band n41 100 MHz Bandwidth	
	Channel
	518598 (2592.99 MHz)
	Conducted Power [dBm]
	16.50

9.4.14 NR Band n41 Antenna E

Table 9-66
NR Band n41 Antenna E Measured P_{Limit} for all DSI - 100 MHz Bandwidth

NR Band n41 100 MHz Bandwidth	
	Channel
	518598 (2592.99 MHz)
	Conducted Power [dBm]
	15.38

9.4.15 NR Band n41 Antenna D

Table 9-67
NR Band n41 Antenna D Measured P_{Limit} for all DSI - 100 MHz Bandwidth

NR Band n41 100 MHz Bandwidth	
	Channel
	518598 (2592.99 MHz)
	Conducted Power [dBm]
	14.49

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9.4.16

NR Band n77 DoD Band Antenna G

Table 9-68

NR Band n77 DoD Antenna G 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), and/or DSI = 4 (Earjack Active) - 100 MHz Bandwidth

NR Band n77 100 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			633334 (3500.01 MHz) Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	16.68	0	0.0
	1	137	16.51		0.0
	1	271	16.31		0.0
	135	0	16.59	0-0.5	0.0
	135	69	16.47	0	0.0
	135	138	16.26		0.0
	270	0	16.44		0.0
DFT-s-OFDM QPSK	1	1	16.75	0	0.0
	1	137	16.54		0.0
	1	271	16.34		0.0
	135	0	16.59	0-1	0.0
	135	69	16.49	0	0.0
	135	138	16.30	0-1	0.0
	270	0	16.51		0.0
DFT-s-OFDM 16QAM	1	1	16.80	0-1	0.0
CP-OFDM QPSK	1	1	16.86	0-1.5	0.0

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Table 9-69
NR Band n77 DoD Antenna G Measured P_{Limit} for DSI = 2 (Head) - 100 MHz Bandwidth
NR Band n77
100 MHz Bandwidth

Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			633334 (3500.01 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	14.43	0	0.0
	1	137	14.00		0.0
	1	271	13.87		0.0
	135	0	14.15	0-0.5	0.0
	135	69	14.01	0	0.0
	135	138	13.85		0.0
	270	0	14.00		0.0
DFT-s-OFDM QPSK	1	1	14.36	0	0.0
	1	137	13.95		0.0
	1	271	13.75		0.0
	135	0	14.17	0-1	0.0
	135	69	13.97	0	0.0
	135	138	13.84		0.0
	270	0	14.03		0.0
DFT-s-OFDM 16QAM	1	1	14.37	0-1	0.0
CP-OFDM QPSK	1	1	14.30	0-1.5	0.0

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9.4.17 NR Band n77 DoD Band Antenna C

Table 9-70
NR Band n77 DoD Antenna C Measured P_{Limit} for all DSI

NR Band n77 100 MHz Bandwidth	
	Channel
	633334 (3500.01 MHz)
	Conducted Power [dBm]
	11.20

9.4.18 NR Band n77 DoD Band Antenna H

Table 9-71
NR Band n77 DoD Antenna H 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), and/or DSI = 4 (Earjack Active) - 100 MHz Bandwidth

NR Band n77 100 MHz Bandwidth	
	Channel
	633334 (3500.01 MHz)
	Conducted Power [dBm]
	16.53

Table 9-72
NR Band n77 DoD Antenna H Measured P_{Limit} for DSI = 2 (Head)- 100 MHz Bandwidth

NR Band n77 100 MHz Bandwidth	
	Channel
	633334 (3500.01 MHz)
	Conducted Power [dBm]
	14.32

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9.4.19 NR Band n77 DoD Band Antenna D

Table 9-73
NR Band n77 DoD Antenna D Measured P_{Limit} for all DSI

NR Band n77 100 MHz Bandwidth	
	Channel
	633334 (3500.01 MHz)
	Conducted Power [dBm]
	11.13

9.4.20 NR Band n77 Antenna G

Table 9-74
NR Band n77 Antenna G 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), 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 $\pi/2$ BPSK	1	1	17.28	17.41	0	0.0
	1	137	17.65	17.48		0.0
	1	271	17.35	16.97		0.0
	135	0	17.7	17.43	0-0.5	0.0
	135	69	17.57	17.45	0	0.0
	135	138	17.3	17.21	0-0.5	0.0
	270	0	17.3	17.38		0.0
DFT-s-OFDM QPSK	1	1	17.32	17.61	0	0.0
	1	137	17.65	17.70		0.0
	1	271	17.30	17.21		0.0
	135	0	17.68	17.55	0-1	0.0
	135	69	17.64	17.69	0	0.0
	135	138	17.35	17.31	0-1	0.0
	270	0	17.35	17.59		0.0
DFT-s-OFDM 16QAM	1	1	17.32	17.34	0-1	0.0
CP-OFDM QPSK	1	1	17.23	17.59	0-1.5	0.0

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Table 9-75
NR Band n77 Antenna G 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 $\pi/2$ BPSK	1	1	14.15	14.57	0	0.0
	1	137	14.75	14.75		0.0
	1	271	13.90	14.04		0.0
	135	0	14.69	14.66	0-0.5	0.0
	135	69	14.57	14.70	0	0.0
	135	138	13.96	14.22	0-0.5	0.0
	270	0	14.36	14.61		0.0
DFT-s-OFDM QPSK	1	1	14.10	14.67	0	0.0
	1	137	14.76	14.96		0.0
	1	271	13.89	14.42		0.0
	135	0	14.69	14.78	0-1	0.0
	135	69	14.56	14.90	0	0.0
	135	138	13.92	14.58	0-1	0.0
	270	0	14.34	14.77		0.0
DFT-s-OFDM 16QAM	1	1	14.21	14.85	0-1	0.0
CP-OFDM QPSK	1	1	13.98	14.61	0-1.5	0.0

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9.4.21 NR Band n77 Antenna C

Table 9-76
NR Band n77 Antenna C Measured P_{Limit} for all DSI

NR Band n77 100 MHz Bandwidth		
	Channel	
	650000 (3750 MHz)	662000 (3930 MHz)
	Conducted Power [dBm]	
	11.62	11.75

9.4.22 NR Band n77 Antenna H

Table 9-77
NR Band n77 Antenna H 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), and/or DSI = 4 (Earjack Active) - 100 MHz Bandwidth

NR Band n77 100 MHz Bandwidth		
	Channel	
	650000 (3750 MHz)	662000 (3930 MHz)
	Conducted Power [dBm]	
	17.30	17.96

Table 9-78
NR Band n77 Antenna H Measured P_{Limit} for DSI = 2 (Head)- 100 MHz Bandwidth

NR Band n77 100 MHz Bandwidth		
	Channel	
	650000 (3750 MHz)	662000 (3930 MHz)
	Conducted Power [dBm]	
	14.29	14.91

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9.4.23

NR Band n77 Antenna D

Table 9-79
NR Band n77 Antenna D Measured P_{Limit} for all DSI

NR Band n77 100 MHz Bandwidth		
	Channel	
	650000 (3750 MHz)	662000 (3930 MHz)
	Conducted Power [dBm]	
	11.46	11.92

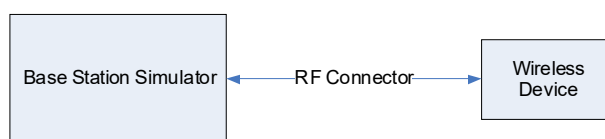


Figure 9-4
Power Measurement Setup – NR FDD

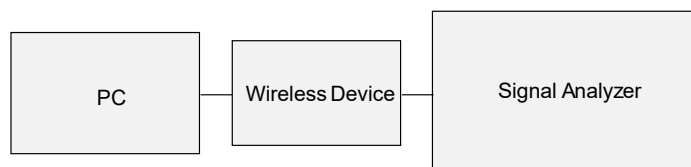


Figure 9-5
Power Measurement Setup – NR TDD

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9.5 WLAN Conducted Powers

Table 9-80
2.4 GHz WLAN Maximum Average RF Power – Ant 2

2.4GHz Conducted Power [dBm]					
Freq [MHz]	Channel	IEEE Transmission Mode			
		802.11b	802.11g	802.11n	802.11ax
		Average	Average	Average	Average
2412	1	18.92	17.79	17.99	17.63
2437	6	18.79	17.69	17.79	17.84
2457	10	N/A	N/A	17.72	17.99
2462	11	18.73	17.61	16.45	16.25

Table 9-81
2.4 GHz WLAN Maximum Average RF Power – MIMO

2.4GHz 802.11b Conducted Power [dBm]				
Freq [MHz]	Channel	ANT1	ANT2	MIMO
2412	1	18.90	18.92	21.92
2437	6	18.49	18.79	21.65
2462	11	18.99	18.73	21.87

Table 9-82
2.4 GHz WLAN Reduced Average RF Power with RCV Active, and/or During Conditions with 2.4 GHz and 5 GHz WLAN, and/or with 5G NR – Ant 2

2.4GHz Conducted Power [dBm]					
Freq [MHz]	Channel	IEEE Transmission Mode			
		802.11b	802.11g	802.11n	802.11ax
		Average	Average	Average	Average
2412	1	14.64	14.61	14.74	14.67
2437	6	14.84	14.61	14.76	14.87
2462	11	14.63	14.93	14.91	14.97

Table 9-83
2.4 GHz WLAN Reduced Average RF Power with RCV Active, and/or During Conditions with 2.4 GHz and 5 GHz WLAN, and/or with 5G NR – MIMO

2.4GHz 802.11n Conducted Power [dBm]				
Freq [MHz]	Channel	ANT1	ANT2	MIMO
2412	1	14.61	14.73	17.68
2437	6	14.27	14.87	17.59
2462	11	14.08	14.99	17.57

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Table 9-84

5 GHz WLAN Maximum Average RF Power – Ant 1

5GHz (80MHz) Conducted Power [dBm]			
Freq [MHz]	Channel	IEEE Transmission Mode	
		802.11ac	802.11ax
		Average	Average
5210	42	16.93	16.65
5290	58	17.66	17.52
5530	106	17.62	17.13
5610	122	17.93	17.83
5690	138	17.75	17.74
5775	155	17.76	17.83
5855	171	17.51	17.71

Table 9-85

5 GHz WLAN Maximum Average RF Power – MIMO

5GHz (80MHz) 802.11ac Conducted Power [dBm]				
Freq [MHz]	Channel	ANT1	ANT2	MIMO
5210	42	16.93	16.91	19.93
5290	58	17.66	17.67	20.68
5530	106	17.62	17.70	20.67
5610	122	17.93	17.95	20.95
5690	138	17.75	17.66	20.72
5775	155	17.76	17.96	20.87
5855	171	17.51	17.69	20.61

Table 9-86

5 GHz WLAN Reduced Average RF Power During Conditions with 2.4 GHz and 5 GHz WLAN, and/or with 5G NR – Ant 1

5GHz (80MHz) Conducted Power [dBm]			
Freq [MHz]	Channel	IEEE Transmission Mode	
		802.11ac	802.11ax
		Average	Average
5210	42	12.94	12.92
5290	58	12.83	12.44
5530	106	12.99	12.77
5610	122	12.98	12.55
5690	138	12.97	12.75
5775	155	12.83	12.56
5855	171	12.48	12.36

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Table 9-87
5 GHz WLAN Reduced Average RF Power During Conditions with 2.4 GHz WLAN and/or with 5G NR - MIMO

5GHz (80MHz) 802.11ac Conducted Power [dBm]				
Freq [MHz]	Channel	ANT1	ANT2	MIMO
5210	42	12.94	12.71	15.84
5290	58	12.83	12.84	15.85
5530	106	12.99	12.99	16.00
5610	122	12.98	12.54	15.78
5690	138	12.97	12.73	15.86
5775	155	12.83	12.73	15.79
5855	171	12.48	12.86	15.68

Table 9-88
5 GHz WLAN Reduced Average RF Power During Conditions with RCV Active, or RCV Active during Conditions with 2.4 GHz WLAN and/or with 5G NR – Ant 1

Freq [MHz]	Channel	IEEE Transmission Mode	
		802.11ac	802.11ax
		Average	Average
5210	42	11.89	11.88
5290	58	11.99	11.84
5530	106	11.83	11.82
5610	122	11.95	11.99
5690	138	11.74	11.77
5775	155	11.65	11.61
5855	171	11.52	11.57

Table 9-89
5 GHz WLAN Reduced Average RF Power During Conditions with RCV Active, or RCV Active during Conditions with 2.4 GHz and/or with 5G NR – MIMO

5GHz (80MHz) 802.11ac Conducted Power [dBm]				
Freq [MHz]	Channel	ANT1	ANT2	MIMO
5210	42	11.89	11.92	14.92
5290	58	11.99	11.99	15.00
5530	106	11.83	11.49	14.67
5610	122	11.95	11.38	14.68
5690	138	11.74	11.62	14.69
5775	155	11.65	11.91	14.79
5855	171	11.52	11.84	14.69

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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.

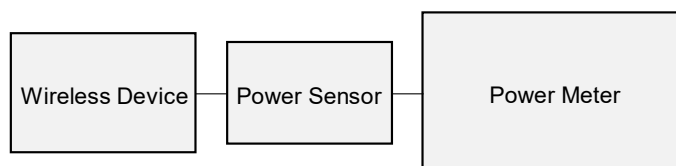


Figure 9-6
Power Measurement Setup

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9.6 Bluetooth Conducted Powers

Table 9-90
Bluetooth Maximum Average RF Power

Frequency [MHz]	Data Rate [Mbps]	Mod.	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	1.0	GFSK	0	15.56	35.975
2441	1.0	GFSK	39	15.22	33.266
2480	1.0	GFSK	78	13.86	24.322
2402	2.0	$\pi/4$ -DQPSK	0	11.23	13.274
2441	2.0	$\pi/4$ -DQPSK	39	11.07	12.794
2480	2.0	$\pi/4$ -DQPSK	78	9.73	9.397
2402	3.0	8DPSK	0	11.26	13.366
2441	3.0	8DPSK	39	11.08	12.823
2480	3.0	8DPSK	78	9.77	9.484

Table 9-91
Bluetooth Reduced Average RF Power (RCV Active)

Frequency [MHz]	Data Rate [Mbps]	Mod.	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	1.0	GFSK	0	12.34	17.140
2441	1.0	GFSK	39	12.53	17.906
2480	1.0	GFSK	78	12.05	16.032

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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
09/26/2021	750 Head	21.8	680	0.896	42.715	0.888	42.305	0.90%	0.97%
			695	0.901	42.668	0.889	42.227	1.35%	1.04%
			700	0.903	42.652	0.889	42.201	1.57%	1.07%
			710	0.907	42.620	0.890	42.149	1.91%	1.12%
			725	0.912	42.574	0.891	42.071	2.36%	1.20%
			750	0.921	42.503	0.894	41.942	3.02%	1.34%
			770	0.927	42.445	0.895	41.838	3.58%	1.45%
			785	0.933	42.403	0.896	41.760	4.13%	1.54%
			800	0.938	42.361	0.897	41.682	4.57%	1.63%
			680	0.895	40.843	0.888	42.305	0.79%	-3.46%
10/12/2021	750 Head	21.8	695	0.899	40.794	0.889	42.227	1.12%	-3.39%
			700	0.901	40.773	0.889	42.201	1.35%	-3.38%
			710	0.904	40.735	0.890	42.149	1.57%	-3.35%
			725	0.908	40.673	0.891	42.071	1.91%	-3.32%
			750	0.915	40.566	0.894	41.942	2.35%	-3.28%
			770	0.921	40.487	0.895	41.838	2.91%	-3.23%
			785	0.925	40.429	0.896	41.760	3.24%	-3.19%
			800	0.930	40.375	0.897	41.682	3.68%	-3.14%
			815	0.937	42.973	0.898	41.594	4.34%	3.32%
			820	0.939	42.962	0.899	41.578	4.45%	3.33%
09/22/2021	835 Head	20.8	835	0.945	42.933	0.900	41.500	5.00%	3.45%
			850	0.952	42.905	0.916	41.500	3.93%	3.39%
			815	0.921	43.270	0.898	41.594	2.56%	4.03%
09/27/2021	835 Head	19.3	820	0.923	43.258	0.899	41.578	2.67%	4.04%
			835	0.929	43.210	0.900	41.500	3.22%	4.12%
			850	0.935	43.157	0.916	41.500	2.07%	3.99%
			815	0.931	42.181	0.898	41.594	3.67%	1.41%
09/28/2021	835 Head	22.1	820	0.933	42.168	0.899	41.578	3.78%	1.42%
			835	0.939	42.132	0.900	41.500	4.33%	1.52%
			850	0.944	42.088	0.916	41.500	3.06%	1.42%
			815	0.878	40.501	0.898	41.594	-2.23%	-2.63%
09/30/2021	835 Head	19.9	820	0.883	40.435	0.899	41.578	-1.78%	-2.75%
			835	0.898	40.234	0.900	41.500	-0.22%	-3.05%
			850	0.912	40.034	0.916	41.500	-0.44%	-3.53%
			1710	1.347	40.953	1.348	40.142	-0.07%	2.02%
09/22/2021	1750 Head	23.1	1720	1.353	40.941	1.354	40.126	-0.07%	2.03%
			1745	1.369	40.908	1.368	40.087	0.07%	2.05%
			1750	1.371	40.901	1.371	40.079	0.00%	2.05%
			1770	1.383	40.873	1.383	40.047	0.00%	2.06%
			1790	1.394	40.851	1.394	40.016	0.00%	2.09%
			1710	1.348	39.441	1.348	40.142	0.00%	-1.75%
			1720	1.354	39.420	1.354	40.126	0.00%	-1.76%
10/04/2021	1750 Head	22.0	1745	1.369	39.359	1.368	40.087	0.07%	-1.82%
			1750	1.372	39.347	1.371	40.079	0.07%	-1.83%
			1770	1.383	39.309	1.383	40.047	0.00%	-1.84%
			1790	1.395	39.280	1.394	40.016	0.07%	-1.84%
			1710	1.308	40.689	1.348	40.142	-2.97%	1.36%
			1720	1.319	40.644	1.354	40.126	-2.58%	1.29%
			1745	1.346	40.530	1.368	40.087	-1.61%	1.11%
10/24/2021	1750 Head	20.3	1750	1.351	40.506	1.371	40.079	-1.46%	1.07%
			1770	1.373	40.409	1.383	40.047	-0.72%	0.90%
			1790	1.394	40.307	1.394	40.016	0.00%	0.73%
			1850	1.386	39.131	1.400	40.000	-1.00%	-2.17%
			1860	1.397	39.087	1.400	40.000	-0.21%	-2.28%
09/19/2021	1900 Head	22.7	1880	1.418	39.005	1.400	40.000	1.29%	-2.49%
			1900	1.440	38.927	1.400	40.000	2.86%	-2.68%
			1905	1.445	38.906	1.400	40.000	3.21%	-2.74%
			1910	1.450	38.885	1.400	40.000	3.57%	-2.79%
			1850	1.428	39.407	1.400	40.000	2.00%	-1.48%
			1860	1.434	39.388	1.400	40.000	2.43%	-1.53%
09/30/2021	1900 Head	22.0	1880	1.447	39.351	1.400	40.000	3.36%	-1.62%
			1900	1.459	39.332	1.400	40.000	4.21%	-1.67%
			1905	1.462	39.329	1.400	40.000	4.43%	-1.68%
			1910	1.466	39.326	1.400	40.000	4.71%	-1.69%
			1850	1.407	38.890	1.400	40.000	0.50%	-2.78%
			1860	1.417	38.845	1.400	40.000	1.21%	-2.89%
10/17/2021	1900 Head	22.3	1880	1.437	38.754	1.400	40.000	2.64%	-3.12%
			1900	1.457	38.670	1.400	40.000	4.07%	-3.33%
			1905	1.462	38.649	1.400	40.000	4.43%	-3.38%
			1910	1.467	38.627	1.400	40.000	4.79%	-3.43%

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Table 10-2
Measured Head 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
10/06/2021	2450 Head	22.6	2300	1.743	38.360	1.670	39.500	4.37%	-2.89%
			2310	1.750	38.344	1.679	39.480	4.23%	-2.88%
			2320	1.758	38.329	1.687	39.460	4.21%	-2.87%
			2400	1.815	38.212	1.756	39.289	3.36%	-2.74%
			2450	1.853	38.141	1.800	39.200	2.94%	-2.70%
			2480	1.874	38.102	1.833	39.162	2.24%	-2.71%
			2500	1.889	38.072	1.855	39.136	1.83%	-2.72%
			2510	1.897	38.056	1.866	39.123	1.66%	-2.73%
			2535	1.918	38.014	1.893	39.092	1.32%	-2.76%
			2550	1.931	37.994	1.909	39.073	1.15%	-2.76%
			2560	1.939	37.980	1.920	39.060	0.99%	-2.76%
			2600	1.972	37.918	1.964	39.009	0.41%	-2.80%
			2650	2.013	37.823	2.018	38.945	-0.25%	-2.88%
			2680	2.037	37.779	2.051	38.907	-0.68%	-2.90%
			2700	2.052	37.746	2.073	38.882	-1.01%	-2.92%
10/10/2021	2450 Head	23.2	2400	1.843	38.325	1.756	39.289	4.95%	-2.45%
			2450	1.882	38.253	1.800	39.200	4.56%	-2.42%
			2480	1.903	38.216	1.833	39.162	3.82%	-2.42%
			2500	1.919	38.184	1.855	39.136	3.45%	-2.43%
			2510	1.927	38.166	1.866	39.123	3.27%	-2.45%
			2535	1.948	38.121	1.893	39.092	2.91%	-2.48%
			2550	1.961	38.100	1.909	39.073	2.72%	-2.49%
			2560	1.969	38.086	1.920	39.060	2.55%	-2.49%
			2600	2.000	38.025	1.964	39.009	1.83%	-2.52%
			2650	2.041	37.933	2.018	38.945	1.14%	-2.60%
			2680	2.065	37.889	2.051	38.907	0.68%	-2.62%
			2700	2.080	37.857	2.073	38.882	0.34%	-2.64%
10/17/2021	2450 Head	23.5	2300	1.663	40.645	1.670	39.500	-0.42%	2.90%
			2310	1.675	40.602	1.679	39.480	-0.24%	2.84%
			2320	1.687	40.563	1.687	39.460	0.00%	2.80%
			2400	1.784	40.228	1.756	39.289	1.59%	2.39%
			2450	1.843	40.012	1.800	39.200	2.39%	2.07%
			2480	1.877	39.889	1.833	39.162	2.40%	1.86%
			2500	1.900	39.797	1.855	39.136	2.43%	1.69%
			2510	1.911	39.752	1.866	39.123	2.41%	1.61%
			2535	1.941	39.645	1.893	39.092	2.54%	1.41%
			2550	1.959	39.587	1.909	39.073	2.62%	1.32%
			2560	1.971	39.546	1.920	39.060	2.66%	1.24%
			2600	2.018	39.382	1.964	39.009	2.75%	0.96%
			2650	2.077	39.181	2.018	38.945	2.92%	0.61%
			2680	2.112	39.068	2.051	38.907	2.97%	0.41%
			2700	2.135	38.991	2.073	38.882	2.99%	0.28%
10/20/2021	2450 Head	24.8	2300	1.686	39.273	1.670	39.500	0.96%	-0.57%
			2310	1.698	39.236	1.679	39.480	1.13%	-0.62%
			2320	1.709	39.203	1.687	39.460	1.30%	-0.65%
			2400	1.799	38.906	1.756	39.289	2.45%	-0.97%
			2450	1.858	38.693	1.800	39.200	3.22%	-1.29%
			2480	1.892	38.574	1.833	39.162	3.22%	-1.50%
			2500	1.915	38.496	1.855	39.136	3.23%	-1.64%
			2510	1.926	38.453	1.866	39.123	3.22%	-1.71%
			2535	1.955	38.341	1.893	39.092	3.28%	-1.92%
			2550	1.974	38.274	1.909	39.073	3.40%	-2.04%
			2560	1.986	38.229	1.920	39.060	3.44%	-2.13%
			2600	2.032	38.073	1.964	39.009	3.46%	-2.40%
			2650	2.088	37.848	2.018	38.945	3.47%	-2.82%
			2680	2.124	37.724	2.051	38.907	3.56%	-3.04%
			2700	2.146	37.658	2.073	38.882	3.52%	-3.15%
10/25/2021	2450 Head	20.5	2300	1.733	37.873	1.670	39.500	3.77%	-4.12%
			2310	1.740	37.858	1.679	39.480	3.63%	-4.11%
			2320	1.748	37.844	1.687	39.460	3.62%	-4.10%
			2400	1.810	37.747	1.756	39.289	3.08%	-3.92%
			2450	1.849	37.652	1.800	39.200	2.72%	-3.95%
			2480	1.874	37.616	1.833	39.162	2.24%	-3.95%
			2500	1.889	37.590	1.855	39.136	1.83%	-3.95%
			2510	1.896	37.571	1.866	39.123	1.61%	-3.97%
			2535	1.916	37.514	1.893	39.092	1.22%	-4.04%
			2550	1.929	37.478	1.909	39.073	1.05%	-4.08%
			2560	1.938	37.456	1.920	39.060	0.94%	-4.11%
			2600	1.972	37.405	1.964	39.009	0.41%	-4.11%
			2650	2.008	37.286	2.018	38.945	-0.50%	-4.26%
			2680	2.035	37.233	2.051	38.907	-0.78%	-4.30%
			2700	2.051	37.221	2.073	38.882	-1.06%	-4.27%

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Table 10-3
Measured Head 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
10/18/2021	3600 Head	20.6	3300	2.626	38.288	2.708	38.157	-3.03%	0.34%
			3350	2.671	38.212	2.759	38.100	-3.19%	0.29%
			3450	2.761	38.023	2.861	37.986	-3.50%	0.10%
			3500	2.808	37.923	2.913	37.929	-3.60%	-0.02%
			3550	2.859	37.840	2.964	37.871	-3.54%	-0.08%
			3560	2.868	37.826	2.974	37.860	-3.56%	-0.09%
			3600	2.902	37.737	3.015	37.814	-3.75%	-0.20%
			3650	2.952	37.665	3.066	37.757	-3.72%	-0.24%
			3690	2.989	37.600	3.107	37.711	-3.80%	-0.29%
			3700	2.996	37.584	3.117	37.700	-3.88%	-0.31%
			3750	3.048	37.480	3.169	37.643	-3.82%	-0.43%
			3900	3.197	37.258	3.323	37.471	-3.79%	-0.57%
			3930	3.227	37.191	3.353	37.437	-3.76%	-0.66%
			4100	3.407	36.899	3.528	37.243	-3.43%	-0.92%
			4150	3.460	36.821	3.579	37.186	-3.32%	-0.98%
10/28/2021	3600 Head	21.0	3300	2.620	39.667	2.708	38.157	-3.25%	3.96%
			3350	2.658	39.661	2.759	38.100	-3.66%	4.10%
			3450	2.752	39.476	2.861	37.986	-3.81%	3.92%
			3500	2.792	39.338	2.913	37.929	-4.15%	3.71%
			3550	2.841	39.294	2.964	37.871	-4.15%	3.76%
			3560	2.851	39.278	2.974	37.860	-4.14%	3.75%
			3600	2.886	39.195	3.015	37.814	-4.28%	3.65%
			3650	2.935	39.104	3.066	37.757	-4.27%	3.57%
			3690	2.973	39.063	3.107	37.711	-4.31%	3.59%
			3700	2.979	39.046	3.117	37.700	-4.43%	3.57%
			3750	3.022	38.950	3.169	37.643	-4.64%	3.47%
			3900	3.179	38.708	3.323	37.471	-4.33%	3.30%
			3930	3.208	38.679	3.353	37.437	-4.32%	3.32%
			4100	3.383	38.343	3.528	37.243	-4.11%	2.95%
10/24/2021	5200-5800 Head	22.0	5180	4.447	34.869	4.635	36.009	-4.06%	-3.17%
			5190	4.457	34.853	4.645	35.998	-4.05%	-3.18%
			5200	4.470	34.824	4.655	35.986	-3.97%	-3.23%
			5210	4.482	34.804	4.666	35.975	-3.94%	-3.26%
			5220	4.493	34.787	4.676	35.963	-3.91%	-3.27%
			5240	4.506	34.747	4.696	35.940	-4.05%	-3.32%
			5250	4.517	34.724	4.706	35.929	-4.02%	-3.35%
			5260	4.530	34.711	4.717	35.917	-3.96%	-3.36%
			5270	4.544	34.695	4.727	35.906	-3.87%	-3.37%
			5280	4.558	34.673	4.737	35.894	-3.78%	-3.40%
			5290	4.569	34.655	4.748	35.883	-3.77%	-3.42%
			5300	4.580	34.648	4.758	35.871	-3.74%	-3.41%
			5310	4.591	34.642	4.768	35.860	-3.71%	-3.40%
			5320	4.602	34.625	4.778	35.849	-3.68%	-3.41%
			5500	4.799	34.328	4.963	35.643	-3.30%	-3.69%
			5510	4.811	34.311	4.973	35.632	-3.26%	-3.71%
			5520	4.824	34.294	4.983	35.620	-3.19%	-3.72%
			5530	4.839	34.276	4.994	35.609	-3.10%	-3.74%
			5540	4.852	34.258	5.004	35.597	-3.04%	-3.76%
			5550	4.864	34.247	5.014	35.586	-2.99%	-3.76%
			5560	4.877	34.242	5.024	35.574	-2.93%	-3.74%
			5580	4.897	34.213	5.045	35.551	-2.93%	-3.76%
			5600	4.916	34.161	5.065	35.529	-2.94%	-3.85%
			5610	4.929	34.142	5.076	35.518	-2.90%	-3.87%
			5620	4.941	34.126	5.086	35.506	-2.85%	-3.89%
			5640	4.967	34.093	5.106	35.483	-2.72%	-3.92%
			5660	4.989	34.063	5.127	35.460	-2.69%	-3.88%
			5670	4.998	34.077	5.137	35.449	-2.71%	-3.87%
			5680	5.005	34.064	5.147	35.437	-2.76%	-3.87%
			5690	5.016	34.042	5.158	35.426	-2.75%	-3.91%
			5700	5.027	34.018	5.168	35.414	-2.73%	-3.94%
			5710	5.041	34.001	5.178	35.403	-2.65%	-3.96%
			5720	5.052	33.982	5.188	35.391	-2.62%	-3.98%
			5745	5.080	33.936	5.214	35.363	-2.57%	-4.04%
			5750	5.085	33.929	5.219	35.357	-2.57%	-4.04%
			5755	5.091	33.923	5.224	35.351	-2.55%	-4.04%
			5765	5.103	33.915	5.234	35.340	-2.50%	-4.03%
			5775	5.112	33.904	5.245	35.329	-2.54%	-4.03%
			5785	5.120	33.891	5.255	35.317	-2.57%	-4.04%
			5795	5.130	33.874	5.265	35.305	-2.56%	-4.05%
			5800	5.135	33.869	5.270	35.300	-2.56%	-4.05%
			5800	5.135	33.869	5.270	35.300	-2.56%	-4.05%
			5805	5.140	33.864	5.275	35.294	-2.56%	-4.05%
			5825	5.158	33.825	5.296	35.271	-2.61%	-4.10%
11/01/2021	5200-5800 Head	21.6	5800	5.394	34.950	5.270	35.300	2.35%	-0.99%
			5805	5.398	34.941	5.275	35.294	2.33%	-1.00%
			5825	5.420	34.892	5.296	35.271	2.34%	-1.07%
			5835	5.431	34.858	5.305	35.230	2.38%	-1.06%
			5845	5.441	34.835	5.315	35.210	2.37%	-1.07%
			5855	5.455	34.822	5.325	35.197	2.44%	-1.07%
			5865	5.468	34.812	5.336	35.190	2.47%	-1.07%
			5875	5.481	34.794	5.347	35.183	2.51%	-1.11%
			5885	5.492	34.768	5.357	35.177	2.52%	-1.16%
			5905	5.514	34.734	5.379	35.163	2.51%	-1.22%

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Table 10-4
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
09/20/2021	750 Body	22.3	680	0.933	54.899	0.958	55.804	-2.61%	-1.62%
			695	0.938	54.861	0.959	55.745	-2.19%	-1.59%
			700	0.940	54.848	0.959	55.726	-1.98%	-1.58%
			710	0.944	54.826	0.960	55.687	-1.67%	-1.55%
			725	0.949	54.794	0.961	55.629	-1.25%	-1.50%
			750	0.958	54.742	0.964	55.531	-0.62%	-1.42%
			770	0.966	54.695	0.965	55.453	0.10%	-1.37%
			785	0.971	54.656	0.966	55.395	0.52%	-1.33%
			800	0.976	54.618	0.967	55.336	0.93%	-1.30%
			700	0.972	54.180	0.959	55.726	1.36%	-2.77%
10/06/2021	750 Body	21.0	710	0.976	54.161	0.960	55.687	1.67%	-2.74%
			725	0.981	54.123	0.961	55.629	2.08%	-2.71%
			750	0.990	54.065	0.964	55.531	2.70%	-2.64%
			770	0.997	54.025	0.965	55.453	3.32%	-2.58%
			785	1.003	53.995	0.966	55.395	3.83%	-2.53%
			800	1.009	53.962	0.967	55.336	4.34%	-2.48%
			680	0.951	54.622	0.958	55.804	-0.73%	-2.12%
			695	0.957	54.584	0.959	55.745	-0.21%	-2.08%
			700	0.958	54.572	0.959	55.726	-0.10%	-2.07%
			710	0.962	54.549	0.960	55.687	0.21%	-2.04%
10/07/2021	750 Body	21.0	725	0.967	54.512	0.961	55.629	0.62%	-2.01%
			750	0.976	54.440	0.964	55.531	1.24%	-1.96%
			770	0.984	54.389	0.965	55.453	1.97%	-1.92%
			785	0.990	54.353	0.966	55.395	2.48%	-1.88%
			800	0.995	54.325	0.967	55.336	2.90%	-1.83%
			680	0.929	54.051	0.958	55.804	-3.03%	-3.14%
			695	0.934	54.008	0.959	55.745	-2.61%	-3.12%
			700	0.936	53.995	0.959	55.726	-2.40%	-3.11%
			710	0.940	53.974	0.960	55.687	-2.08%	-3.08%
			725	0.946	53.942	0.961	55.629	-1.56%	-3.03%
10/17/2021	750 Body	19.8	750	0.956	53.878	0.964	55.531	-0.83%	-2.98%
			770	0.963	53.819	0.965	55.453	-0.21%	-2.95%
			785	0.969	53.770	0.966	55.395	0.31%	-2.93%
			800	0.975	53.731	0.967	55.336	0.83%	-2.90%
			815	0.926	54.850	0.968	55.271	-4.34%	-0.76%
			820	0.931	54.811	0.969	55.258	-3.92%	-0.81%
			835	0.947	54.693	0.970	55.200	-2.37%	-0.92%
			850	0.962	54.566	0.988	55.154	-2.63%	-1.07%
			815	1.006	54.831	0.968	55.271	3.93%	-0.80%
			820	1.008	54.820	0.969	55.258	4.02%	-0.79%
09/20/2021	835 Body	22.2	835	1.015	54.779	0.970	55.200	4.64%	-0.76%
			850	1.022	54.734	0.988	55.154	3.44%	-0.76%
			815	0.997	53.291	0.968	55.271	3.00%	-3.58%
			820	0.999	53.280	0.969	55.258	3.10%	-3.58%
			835	1.005	53.240	0.970	55.200	3.61%	-3.55%
			850	1.012	53.199	0.988	55.154	2.43%	-3.54%
			815	1.003	52.896	0.968	55.271	3.62%	-4.30%
			820	1.005	52.883	0.969	55.258	3.72%	-4.30%
			835	1.011	52.832	0.970	55.200	4.23%	-4.29%
			850	1.018	52.783	0.988	55.154	3.04%	-4.30%
09/27/2021	835 Body	20.5	815	1.009	54.018	0.968	55.271	4.24%	-2.27%
			820	1.011	54.011	0.969	55.258	4.33%	-2.26%
			835	1.017	53.993	0.970	55.200	4.85%	-2.19%
			850	1.024	53.979	0.988	55.154	3.64%	-2.13%
			815	1.008	54.215	0.968	55.271	4.13%	-1.91%
			820	1.010	54.204	0.969	55.258	4.23%	-1.91%
			835	1.017	54.166	0.970	55.200	4.85%	-1.87%
			850	1.024	54.115	0.988	55.154	3.64%	-1.88%
			815	0.931	54.995	0.968	55.271	-3.82%	-0.50%
			820	0.936	54.954	0.969	55.258	-3.41%	-0.55%
09/29/2021	835 Body	20.5	835	0.953	54.827	0.970	55.200	-1.75%	-0.68%
			850	0.969	54.693	0.988	55.154	-1.92%	-0.84%
			815	0.931	54.995	0.968	55.271	-3.82%	-0.50%
			820	0.936	54.954	0.969	55.258	-3.41%	-0.55%
			835	0.953	54.827	0.970	55.200	-1.75%	-0.68%
			850	0.969	54.693	0.988	55.154	-1.92%	-0.84%
			815	0.931	54.995	0.968	55.271	-3.82%	-0.50%
			820	0.936	54.954	0.969	55.258	-3.41%	-0.55%
			835	0.953	54.827	0.970	55.200	-1.75%	-0.68%
			850	0.969	54.693	0.988	55.154	-1.92%	-0.84%
09/29/2021	835 Body	21.5	815	1.011	54.018	0.968	55.271	4.24%	-2.27%
			820	1.011	54.011	0.969	55.258	4.33%	-2.26%
			835	1.017	53.993	0.970	55.200	4.85%	-2.19%
			850	1.024	53.979	0.988	55.154	3.64%	-2.13%
			815	1.008	54.215	0.968	55.271	4.13%	-1.91%
			820	1.010	54.204	0.969	55.258	4.23%	-1.91%
			835	1.017	54.166	0.970	55.200	4.85%	-1.87%
			850	1.024	54.115	0.988	55.154	3.64%	-1.88%
			815	0.931	54.995	0.968	55.271	-3.82%	-0.50%
			820	0.936	54.954	0.969	55.258	-3.41%	-0.55%
09/29/2021	835 Body	21.5	835	0.953	54.827	0.970	55.200	-1.75%	-0.68%
			850	0.969	54.693	0.988	55.154	-1.92%	-0.84%
			815	0.931	54.995	0.968	55.271	-3.82%	-0.50%
			820	0.936	54.954	0.969	55.258	-3.41%	-0.55%
			835	0.953	54.827	0.970	55.200	-1.75%	-0.68%
			850	0.969	54.693	0.988	55.154	-1.92%	-0.84%
			815	0.931	54.995	0.968	55.271	-3.82%	-0.50%
			820	0.936	54.954	0.969	55.258	-3.41%	-0.55%
			835	0.953	54.827	0.970	55.200	-1.75%	-0.68%
			850	0.969	54.693	0.988	55.154	-1.92%	-0.84%
09/12/2021	1750 Body	21.2	1710	1.452	52.773	1.463	53.537	-0.75%	-1.43%
			1720	1.463	52.745	1.469	53.511	-0.41%	-1.43%
			1745	1.491	52.673	1.485	53.445	0.40%	-1.44%
			1750	1.497	52.657	1.488	53.432	0.60%	-1.45%
			1770	1.519	52.593	1.501	53.379	1.20%	-1.47%

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**Table 10-5
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
09/14/2021	1750 Body	21.5	1790	1.542	52.527	1.514	53.326	1.85%	-1.50%
			1710	1.449	51.695	1.463	53.537	-0.96%	-3.44%
			1720	1.461	51.661	1.469	53.511	-0.54%	-3.46%
			1745	1.489	51.566	1.485	53.445	0.27%	-3.52%
			1750	1.495	51.545	1.488	53.432	0.47%	-3.53%
			1770	1.516	51.457	1.501	53.379	1.00%	-3.60%
			1790	1.537	51.372	1.514	53.326	1.52%	-3.66%
10/04/2021	1750 Body	21.6	1710	1.426	52.350	1.463	53.537	-2.53%	-2.22%
			1720	1.436	52.316	1.469	53.511	-2.25%	-2.23%
			1745	1.463	52.229	1.485	53.445	-1.48%	-2.28%
			1750	1.468	52.211	1.488	53.432	-1.34%	-2.29%
			1770	1.490	52.135	1.501	53.379	-0.73%	-2.33%
			1790	1.511	52.063	1.514	53.326	-0.20%	-2.37%
10/19/2021	1750 Body	21.5	1710	1.470	52.875	1.463	53.537	0.48%	-1.24%
			1720	1.481	52.832	1.469	53.511	0.82%	-1.27%
			1745	1.510	52.725	1.485	53.445	1.68%	-1.35%
			1750	1.515	52.703	1.488	53.432	1.81%	-1.36%
			1770	1.537	52.614	1.501	53.379	2.40%	-1.43%
			1790	1.559	52.529	1.514	53.326	2.97%	-1.49%
09/16/2021	1900 Body	23.2	1850	1.527	51.466	1.520	53.300	0.46%	-3.44%
			1860	1.538	51.423	1.520	53.300	1.18%	-3.52%
			1880	1.560	51.346	1.520	53.300	2.63%	-3.67%
			1900	1.583	51.285	1.520	53.300	4.14%	-3.78%
			1905	1.589	51.271	1.520	53.300	4.54%	-3.81%
			1910	1.594	51.257	1.520	53.300	4.87%	-3.83%
09/20/2021	1900 Body	21.6	1850	1.480	51.549	1.520	53.300	-2.63%	-3.29%
			1860	1.491	51.515	1.520	53.300	-1.91%	-3.35%
			1880	1.514	51.452	1.520	53.300	-0.39%	-3.47%
			1900	1.536	51.400	1.520	53.300	1.05%	-3.56%
			1905	1.542	51.388	1.520	53.300	1.45%	-3.59%
			1910	1.547	51.378	1.520	53.300	1.78%	-3.61%
10/11/2021	1900 Body	23.8	1850	1.510	51.283	1.520	53.300	-0.66%	-3.78%
			1860	1.521	51.245	1.520	53.300	0.07%	-3.86%
			1880	1.545	51.174	1.520	53.300	1.64%	-3.99%
			1900	1.568	51.123	1.520	53.300	3.16%	-4.08%
			1905	1.573	51.112	1.520	53.300	3.49%	-4.11%
			1910	1.579	51.100	1.520	53.300	3.88%	-4.13%
10/14/2021	1900 Body	24.5	1850	1.501	51.751	1.520	53.300	-1.25%	-2.91%
			1860	1.512	51.702	1.520	53.300	-0.53%	-3.00%
			1880	1.537	51.630	1.520	53.300	1.12%	-3.13%
			1900	1.561	51.596	1.520	53.300	2.70%	-3.20%
			1905	1.567	51.590	1.520	53.300	3.09%	-3.21%
			1910	1.571	51.583	1.520	53.300	3.36%	-3.22%
10/18/2021	1900 Body	21.4	1850	1.526	52.093	1.520	53.300	0.39%	-2.26%
			1860	1.537	52.060	1.520	53.300	1.12%	-2.33%
			1880	1.558	51.993	1.520	53.300	2.50%	-2.45%
			1900	1.581	51.941	1.520	53.300	4.01%	-2.55%
			1905	1.586	51.929	1.520	53.300	4.34%	-2.57%
			1910	1.592	51.915	1.520	53.300	4.74%	-2.60%
10/20/2021	1900 Body	22.0	1850	1.518	52.870	1.520	53.300	-0.13%	-0.81%
			1860	1.529	52.838	1.520	53.300	0.59%	-0.87%
			1880	1.551	52.777	1.520	53.300	2.04%	-0.98%
			1900	1.574	52.718	1.520	53.300	3.55%	-1.09%
			1905	1.580	52.700	1.520	53.300	3.95%	-1.13%
			1910	1.586	52.682	1.520	53.300	4.34%	-1.16%
09/19/2021	2450 Body	23.0	2300	1.795	54.379	1.809	52.900	-0.77%	2.80%
			2310	1.809	54.340	1.816	52.887	-0.39%	2.75%
			2320	1.823	54.311	1.826	52.873	-0.16%	2.72%
			2400	1.932	54.072	1.902	52.767	1.58%	2.47%
			2450	2.005	53.877	1.950	52.700	2.82%	2.23%
			2480	2.047	53.797	1.993	52.662	2.71%	2.16%
			2500	2.073	53.721	2.021	52.636	2.57%	2.06%
			2510	2.085	53.673	2.035	52.623	2.46%	2.00%
			2535	2.120	53.552	2.071	52.592	2.37%	1.83%
			2550	2.143	53.494	2.092	52.573	2.44%	1.75%
			2560	2.159	53.460	2.106	52.560	2.52%	1.71%
			2600	2.215	53.343	2.163	52.509	2.40%	1.59%
			2650	2.282	53.115	2.234	52.445	2.15%	1.28%
			2680	2.329	53.018	2.277	52.407	2.28%	1.17%
			2700	2.357	52.966	2.305	52.382	2.26%	1.11%

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Table 10-6
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
10/06/2021	2450 Body	21.7	2300	1.867	51.580	1.809	52.900	3.21%	-2.50%
			2310	1.879	51.549	1.816	52.887	3.47%	-2.53%
			2320	1.890	51.520	1.826	52.873	3.50%	-2.56%
			2400	1.983	51.296	1.902	52.767	4.26%	-2.79%
			2450	2.042	51.152	1.950	52.700	4.72%	-2.94%
			2480	2.077	51.071	1.993	52.662	4.21%	-3.02%
			2500	2.101	51.013	2.021	52.636	3.96%	-3.08%
			2510	2.114	50.984	2.035	52.623	3.88%	-3.11%
			2535	2.145	50.909	2.071	52.592	3.57%	-3.20%
			2550	2.163	50.869	2.092	52.573	3.39%	-3.24%
			2560	2.175	50.841	2.106	52.560	3.28%	-3.27%
			2600	2.225	50.724	2.163	52.509	2.87%	-3.40%
			2650	2.286	50.581	2.234	52.445	2.33%	-3.55%
			2680	2.324	50.495	2.277	52.407	2.06%	-3.65%
			2700	2.349	50.433	2.305	52.382	1.91%	-3.72%
10/21/2021	2450 Body	24.3	2300	1.863	53.500	1.809	52.900	2.99%	1.13%
			2310	1.874	53.469	1.816	52.887	3.19%	1.10%
			2320	1.886	53.442	1.826	52.873	3.29%	1.08%
			2400	1.980	53.226	1.902	52.767	4.10%	0.87%
			2450	2.040	53.076	1.950	52.700	4.62%	0.71%
			2480	2.076	52.985	1.993	52.662	4.16%	0.61%
			2500	2.100	52.921	2.021	52.636	3.91%	0.54%
			2510	2.111	52.888	2.035	52.623	3.73%	0.50%
			2535	2.142	52.809	2.071	52.592	3.43%	0.41%
			2550	2.161	52.763	2.092	52.573	3.30%	0.36%
			2560	2.173	52.732	2.106	52.560	3.18%	0.33%
			2600	2.222	52.598	2.163	52.509	2.73%	0.17%
			2650	2.281	52.449	2.234	52.445	2.10%	0.01%
			2680	2.318	52.354	2.277	52.407	1.80%	-0.10%
			2700	2.341	52.289	2.305	52.382	1.56%	-0.18%
10/26/2021	2450 Body	22.9	2300	1.763	52.058	1.809	52.900	-2.54%	-1.59%
			2310	1.776	52.020	1.816	52.887	-2.20%	-1.64%
			2320	1.788	51.981	1.826	52.873	-2.08%	-1.69%
			2400	1.890	51.684	1.902	52.767	-0.63%	-2.05%
			2450	1.955	51.493	1.950	52.700	0.26%	-2.29%
			2480	1.994	51.398	1.993	52.662	0.05%	-2.40%
			2500	2.019	51.330	2.021	52.636	-0.10%	-2.48%
			2510	2.032	51.295	2.035	52.623	-0.15%	-2.52%
			2535	2.066	51.196	2.071	52.592	-0.24%	-2.65%
			2550	2.087	51.140	2.092	52.573	-0.24%	-2.73%
			2560	2.102	51.105	2.106	52.560	-0.19%	-2.77%
			2600	2.155	50.983	2.163	52.509	-0.37%	-2.91%
			2650	2.223	50.764	2.234	52.445	-0.49%	-3.21%
			2680	2.266	50.662	2.277	52.407	-0.48%	-3.33%
			2700	2.292	50.605	2.305	52.382	-0.56%	-3.39%
10/27/2021	2450 Body	20.9	2300	1.829	52.657	1.809	52.900	1.11%	-0.46%
			2310	1.843	52.621	1.816	52.887	1.49%	-0.50%
			2320	1.856	52.582	1.826	52.873	1.64%	-0.55%
			2400	1.966	52.261	1.902	52.767	3.36%	-0.96%
			2450	2.036	52.059	1.950	52.700	4.41%	-1.22%
			2480	2.078	51.932	1.993	52.662	4.26%	-1.39%
			2500	2.106	51.848	2.021	52.636	4.21%	-1.50%
			2510	2.120	51.807	2.035	52.623	4.18%	-1.55%
			2535	2.156	51.698	2.071	52.592	4.10%	-1.70%
			2550	2.178	51.635	2.092	52.573	4.11%	-1.78%
			2560	2.192	51.594	2.106	52.560	4.08%	-1.84%
			2600	2.248	51.435	2.163	52.509	3.93%	-2.05%
			2650	2.318	51.202	2.234	52.445	3.76%	-2.37%
			2680	2.362	51.087	2.277	52.407	3.73%	-2.52%
10/29/2021	2450 Body	23.8	2300	1.845	52.864	1.809	52.900	1.99%	-0.07%
			2310	1.856	52.835	1.816	52.887	2.20%	-0.10%
			2320	1.869	52.808	1.826	52.873	2.35%	-0.12%
			2400	1.966	52.591	1.902	52.767	3.36%	-0.33%
			2450	2.024	52.426	1.950	52.700	3.79%	-0.52%
			2480	2.059	52.333	1.993	52.662	3.31%	-0.62%
			2500	2.082	52.267	2.021	52.636	3.02%	-0.70%
			2510	2.094	52.234	2.035	52.623	2.90%	-0.74%
			2535	2.123	52.158	2.071	52.592	2.51%	-0.83%
			2550	2.140	52.116	2.092	52.573	2.29%	-0.87%
			2560	2.152	52.087	2.106	52.560	2.18%	-0.90%
			2600	2.198	51.968	2.163	52.509	1.62%	-1.03%
			2650	2.256	51.824	2.234	52.445	0.98%	-1.18%
			2680	2.292	51.743	2.277	52.407	0.66%	-1.27%
			2700	2.316	51.687	2.305	52.382	0.48%	-1.33%

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Table 10-7
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
10/29/2021	2450 Body	23.2	2300	1.832	51.657	1.809	52.900	1.27%	-2.35%
			2310	1.845	51.625	1.816	52.887	1.60%	-2.39%
			2320	1.858	51.591	1.826	52.873	1.75%	-2.42%
			2400	1.965	51.292	1.902	52.767	3.31%	-2.80%
			2450	2.034	51.098	1.950	52.700	4.31%	-3.04%
			2480	2.075	50.983	1.993	52.662	4.11%	-3.19%
			2500	2.102	50.908	2.021	52.636	4.01%	-3.28%
			2510	2.116	50.866	2.035	52.623	3.98%	-3.34%
			2535	2.153	50.763	2.071	52.592	3.96%	-3.48%
			2550	2.174	50.705	2.092	52.573	3.92%	-3.55%
			2560	2.188	50.666	2.106	52.560	3.89%	-3.60%
			2600	2.242	50.522	2.163	52.509	3.65%	-3.78%
			2650	2.312	50.310	2.234	52.445	3.49%	-4.07%
			2680	2.357	50.199	2.277	52.407	3.51%	-4.21%
10/29/2021	2450 Body	21.5	2300	1.773	51.862	1.809	52.900	-1.99%	-1.96%
			2310	1.786	51.836	1.816	52.887	-1.65%	-1.99%
			2320	1.799	51.809	1.826	52.873	-1.48%	-2.01%
			2400	1.902	51.539	1.902	52.767	0.00%	-2.33%
			2450	1.970	51.364	1.950	52.700	1.03%	-2.54%
			2480	2.008	51.259	1.993	52.662	0.75%	-2.66%
			2500	2.034	51.184	2.021	52.636	0.64%	-2.76%
			2510	2.048	51.146	2.035	52.623	0.64%	-2.81%
			2535	2.083	51.047	2.071	52.592	0.58%	-2.94%
			2550	2.105	50.993	2.092	52.573	0.62%	-3.01%
			2560	2.119	50.957	2.106	52.560	0.62%	-3.05%
			2600	2.173	50.815	2.163	52.509	0.46%	-3.23%
			2650	2.240	50.590	2.234	52.445	0.27%	-3.54%
			2680	2.283	50.489	2.277	52.407	0.26%	-3.66%
			2700	2.309	50.425	2.305	52.382	0.17%	-3.74%
10/31/2021	2450 Body	24.5	2300	1.856	52.580	1.809	52.900	2.60%	-0.64%
			2310	1.867	52.530	1.816	52.887	2.81%	-0.68%
			2320	1.878	52.502	1.826	52.873	2.88%	-0.70%
			2400	1.969	52.288	1.902	52.767	3.52%	-0.91%
			2450	2.028	52.136	1.950	52.700	4.00%	-1.07%
			2480	2.064	52.052	1.993	52.662	3.56%	-1.16%
			2500	2.088	51.993	2.021	52.636	3.32%	-1.22%
			2510	2.100	51.963	2.035	52.623	3.19%	-1.25%
			2535	2.130	51.886	2.071	52.592	2.85%	-1.34%
			2550	2.149	51.842	2.092	52.573	2.72%	-1.39%
			2560	2.161	51.813	2.106	52.560	2.61%	-1.42%
			2600	2.211	51.689	2.163	52.509	2.22%	-1.56%
			2650	2.272	51.536	2.234	52.445	1.70%	-1.73%
			2680	2.309	51.451	2.277	52.407	1.41%	-1.82%
			2700	2.333	51.390	2.305	52.382	1.21%	-1.89%
09/27/2021	3600 Body	20.7	3300	2.932	51.876	3.080	51.593	-4.81%	0.55%
			3350	2.991	51.806	3.139	51.525	-4.71%	0.55%
			3450	3.102	51.631	3.256	51.389	-4.73%	0.47%
			3500	3.158	51.559	3.314	51.321	-4.71%	0.46%
			3550	3.218	51.470	3.372	51.254	-4.57%	0.42%
			3560	3.231	51.454	3.384	51.240	-4.52%	0.42%
			3600	3.277	51.403	3.431	51.186	-4.49%	0.42%
			3650	3.336	51.316	3.489	51.118	-4.39%	0.39%
			3690	3.385	51.262	3.536	51.063	-4.27%	0.39%
			3700	3.397	51.245	3.548	51.050	-4.26%	0.38%
			3750	3.459	51.161	3.606	50.982	-4.08%	0.35%
			3900	3.646	50.917	3.781	50.779	-3.57%	0.27%
			3930	3.691	50.868	3.816	50.738	-3.28%	0.26%
			4100	3.917	50.580	4.015	50.507	-2.44%	0.14%
			4150	3.985	50.500	4.073	50.439	-2.16%	0.12%
10/21/2021	3600 Body	21.0	3300	2.954	49.674	3.080	51.593	-4.09%	-3.72%
			3350	3.007	49.572	3.139	51.525	-4.21%	-3.79%
			3450	3.119	49.395	3.256	51.389	-4.21%	-3.88%
			3500	3.173	49.318	3.314	51.321	-4.25%	-3.90%
			3550	3.231	49.242	3.372	51.254	-4.18%	-3.93%
			3560	3.242	49.226	3.384	51.240	-4.20%	-3.93%
			3600	3.288	49.158	3.431	51.186	-4.17%	-3.96%
			3650	3.349	49.087	3.489	51.118	-4.01%	-3.97%
			3690	3.393	49.020	3.536	51.063	-4.04%	-4.00%
			3700	3.406	49.001	3.548	51.050	-4.00%	-4.01%
			3750	3.465	48.930	3.606	50.982	-3.91%	-4.02%
			3900	3.658	48.707	3.781	50.779	-3.25%	-4.08%
			3930	3.697	48.652	3.816	50.738	-3.12%	-4.11%
			4100	3.917	48.393	4.015	50.507	-2.44%	-4.19%
			4150	3.981	48.297	4.073	50.439	-2.26%	-4.25%

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Table 10-8
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
10/20/2021	5200-5800 Body	23.2	5180	5.281	47.802	5.276	49.041	0.09%	-2.53%
			5190	5.298	47.791	5.288	49.028	0.19%	-2.52%
			5200	5.313	47.767	5.299	49.014	0.26%	-2.54%
			5210	5.324	47.747	5.311	49.001	0.24%	-2.56%
			5220	5.337	47.733	5.323	48.987	0.26%	-2.56%
			5240	5.370	47.682	5.346	48.960	0.45%	-2.61%
			5250	5.382	47.647	5.358	48.947	0.45%	-2.66%
			5260	5.391	47.626	5.369	48.933	0.41%	-2.67%
			5270	5.401	47.607	5.381	48.919	0.37%	-2.68%
			5280	5.416	47.586	5.393	48.906	0.43%	-2.70%
			5290	5.435	47.564	5.404	48.892	0.57%	-2.72%
			5300	5.451	47.553	5.416	48.879	0.65%	-2.71%
			5310	5.466	47.537	5.428	48.865	0.70%	-2.72%
			5320	5.482	47.523	5.439	48.851	0.79%	-2.72%
			5500	5.742	47.178	5.650	48.607	1.63%	-2.94%
			5510	5.755	47.153	5.661	48.594	1.66%	-2.97%
			5520	5.773	47.133	5.673	48.580	1.76%	-2.98%
			5530	5.792	47.113	5.685	48.566	1.88%	-2.99%
			5540	5.809	47.096	5.696	48.553	1.98%	-3.00%
			5550	5.825	47.081	5.708	48.539	2.05%	-3.00%
			5560	5.841	47.068	5.720	48.526	2.12%	-3.00%
			5580	5.872	47.029	5.743	48.499	2.25%	-3.03%
			5600	5.895	46.982	5.766	48.471	2.24%	-3.07%
			5610	5.909	46.969	5.778	48.458	2.27%	-3.07%
			5620	5.925	46.953	5.790	48.444	2.33%	-3.08%
			5640	5.957	46.906	5.813	48.417	2.48%	-3.12%
			5660	5.989	46.880	5.837	48.390	2.60%	-3.12%
			5670	6.003	46.872	5.848	48.376	2.65%	-3.11%
			5680	6.015	46.859	5.860	48.363	2.65%	-3.11%
			5690	6.029	46.841	5.872	48.349	2.67%	-3.12%
			5700	6.045	46.824	5.883	48.336	2.75%	-3.13%
			5710	6.061	46.808	5.895	48.322	2.82%	-3.13%
			5720	6.077	46.788	5.907	48.309	2.88%	-3.15%
			5745	6.113	46.723	5.936	48.275	2.98%	-3.21%
			5750	6.120	46.716	5.942	48.268	3.00%	-3.22%
			5755	6.127	46.709	5.947	48.261	3.03%	-3.22%
			5765	6.142	46.698	5.959	48.248	3.07%	-3.21%
			5775	6.156	46.684	5.971	48.234	3.10%	-3.21%
			5785	6.169	46.672	5.982	48.220	3.13%	-3.21%
			5795	6.183	46.665	5.994	48.207	3.15%	-3.20%
			5800	6.190	46.663	6.000	48.200	3.17%	-3.19%
			5805	6.198	46.657	6.006	48.193	3.20%	-3.19%
			5825	6.226	46.616	6.029	48.166	3.27%	-3.22%
11/04/2021	5200-5800 Body	22.2	5800	6.260	46.881	6.000	48.200	4.33%	-2.74%
			5805	6.268	46.864	6.006	48.193	4.36%	-2.76%
			5825	6.288	46.793	6.029	48.166	4.30%	-2.85%
			5835	6.300	46.776	6.042	48.130	4.27%	-2.81%
			5845	6.321	46.764	6.054	48.110	4.41%	-2.80%
			5855	6.344	46.736	6.066	48.093	4.58%	-2.82%
			5865	6.359	46.702	6.077	48.080	4.64%	-2.87%
			5875	6.369	46.674	6.088	48.067	4.62%	-2.90%
			5885	6.380	46.659	6.100	48.053	4.59%	-2.90%
			5905	6.412	46.616	6.122	48.027	4.74%	-2.94%

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.

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10.2 Test System Verification

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

Table 10-9
System Verification Results

System Verification TARGET & MEASURED												
SAR System	Tissue Frequency (MHz)	Tissue Type	Date	Amb. Temp. (C)	Liquid Temp. (C)	Input Power (W)	Source SN	Probe SN	Measured SAR1g (W/kg)	1W Target SAR1g (W/kg)	1W Normalized SAR 1g (W/kg)	Deviation1g (%)
A	750	HEAD	09/26/2021	23.5	21.8	0.20	1003	7406	1.620	8.78	8.100	-7.74%
K2	750	HEAD	10/12/2021	21.6	21.8	0.20	1034	7402	1.700	8.64	8.500	-1.62%
K2	835	HEAD	09/22/2021	22.1	20.8	0.20	4d180	7402	1.980	9.45	9.900	4.76%
K2	835	HEAD	09/27/2021	19.5	19.3	0.20	4d180	7402	1.970	9.45	9.850	4.23%
A	835	HEAD	09/28/2021	23.9	22.1	0.20	4d133	7406	1.970	9.43	9.850	4.45%
K1	835	HEAD	09/30/2021	20.1	19.9	0.20	4d119	7565	2.040	9.64	10.200	5.81%
A	1750	HEAD	09/22/2021	23.6	23.1	0.10	1150	7406	3.680	36.50	36.800	0.82%
A	1750	HEAD	10/04/2021	24.0	22.0	0.10	1150	7406	3.840	36.50	38.400	5.21%
H	1750	HEAD	10/24/2021	21.0	20.6	0.10	1148	7409	3.820	35.90	38.200	6.41%
A	1900	HEAD	09/19/2021	22.9	22.7	0.10	5d080	7406	4.270	39.80	42.700	7.29%
A	1900	HEAD	09/30/2021	24.9	23.7	0.10	5d148	7406	4.090	39.10	40.900	4.60%
A	1900	HEAD	10/17/2021	24.0	22.3	0.10	5d148	7406	4.140	39.10	41.400	5.88%
B	2300	HEAD	10/17/2021	24.3	23.5	0.10	1073	7660	4.730	49.50	47.300	-4.44%
B	2450	HEAD	10/06/2021	23.0	22.6	0.10	797	7660	5.540	52.40	55.400	5.73%
B	2450	HEAD	10/10/2021	23.4	23.2	0.10	797	7660	5.080	52.40	50.800	-3.05%
B	2450	HEAD	10/17/2021	24.3	23.5	0.10	719	7660	5.210	55.00	52.100	-5.27%
E	2450	HEAD	10/25/2021	20.5	20.5	0.10	719	7571	5.350	55.00	53.500	-2.73%
B	2600	HEAD	10/06/2021	23.0	22.6	0.10	1064	7660	5.630	58.10	56.300	-3.10%
B	2600	HEAD	10/10/2021	23.4	23.2	0.10	1064	7660	5.720	58.10	57.200	-1.55%
B	2600	HEAD	10/20/2021	23.5	23.0	0.10	1071	7660	5.550	56.10	55.500	-1.07%
E	2600	HEAD	11/02/2021	22.6	22.2	0.10	1004	7571	6.060	57.80	60.600	4.84%
L	3500	HEAD	10/18/2021	21.9	20.4	0.10	1097	7670	6.380	66.40	63.800	-3.92%
L	3500	HEAD	10/28/2021	21.3	21.0	0.10	1097	7670	6.250	66.40	62.500	-5.87%
L	3700	HEAD	10/18/2021	21.9	20.4	0.10	1067	7670	6.780	67.20	67.800	0.89%
L	3700	HEAD	10/28/2021	21.3	21.0	0.10	1067	7670	6.790	67.20	67.900	1.04%
L	3900	HEAD	10/28/2021	21.3	21.0	0.10	1056	7670	6.860	68.90	68.600	-0.44%
J	5250	HEAD	10/24/2021	19.3	20.5	0.05	1057	7526	3.890	79.70	77.800	-2.38%
J	5600	HEAD	10/24/2021	19.3	20.5	0.05	1057	7526	3.820	83.80	76.400	-8.83%
J	5750	HEAD	10/24/2021	19.3	20.5	0.05	1057	7526	3.620	80.10	72.400	-9.61%
B	5800	HEAD	11/01/2021	22.5	21.6	0.05	1191	7552	3.710	79.20	74.200	-6.31%
E	750	BODY	09/20/2021	23.0	22.3	0.20	1161	7571	1.800	8.43	9.000	6.76%
K1	750	BODY	10/06/2021	21.0	21.0	0.20	1046	7565	1.770	8.79	8.850	0.68%
K1	750	BODY	10/07/2021	21.5	21.0	0.20	1046	7565	1.650	8.79	8.250	-6.14%
H	750	BODY	10/17/2021	21.5	20.0	0.20	1054	7409	1.820	8.82	9.100	3.17%
H	835	BODY	09/20/2021	23.5	22.2	0.20	4d133	7409	1.990	9.75	9.950	2.05%
K1	835	BODY	09/27/2021	20.5	20.5	0.20	4d119	7565	2.080	9.90	10.400	5.05%
K1	835	BODY	09/29/2021	20.5	20.5	0.20	4d119	7565	2.030	9.90	10.150	2.53%
K2	835	BODY	09/29/2021	21.9	21.5	0.20	4d180	7402	2.010	9.67	10.050	3.93%
K2	835	BODY	10/01/2021	20.7	21.1	0.20	4d180	7402	1.970	9.67	9.850	1.86%
K2	835	BODY	10/04/2021	21.4	21.3	0.20	4d180	7402	1.970	9.67	9.850	1.86%
H	835	BODY	10/05/2021	21.1	21.3	0.20	4d132	7409	2.020	9.81	10.100	2.96%
G	1750	BODY	09/12/2021	22.4	21.2	0.10	1148	7357	3.930	36.30	39.300	8.26%
G	1750	BODY	09/14/2021	24.4	21.5	0.10	1150	7357	3.760	36.60	37.600	2.73%
D	1750	BODY	10/04/2021	22.3	21.6	0.10	1150	3589	3.750	36.60	37.500	2.46%
G	1750	BODY	10/19/2021	23.5	21.5	0.10	1148	7357	3.900	36.30	39.000	7.44%
G	1750	BODY	10/28/2021	22.8	21.4	0.10	1148	7357	3.850	36.30	38.500	6.06%
P	1900	BODY	09/16/2021	22.2	21.7	0.10	5d148	7410	4.160	39.10	41.600	6.39%
P	1900	BODY	09/20/2021	21.0	20.7	0.10	5d148	7410	4.160	39.10	41.600	6.39%
P	1900	BODY	10/11/2021	23.3	22.0	0.10	5d148	7410	4.140	39.10	41.400	5.88%
P	1900	BODY	10/14/2021	23.5	23.0	0.10	5d080	7410	4.180	39.20	41.800	6.63%
D	1900	BODY	10/20/2021	23.1	22.0	0.10	5d149	3589	4.350	40.40	43.500	7.67%
L	2300	BODY	09/19/2021	21.1	21.5	0.10	1116	7539	4.700	49.20	47.000	-4.47%
K	2300	BODY	10/31/2021	22.1	24.5	0.10	1073	3914	4.880	48.40	48.800	0.83%
L	2450	BODY	09/19/2021	21.1	21.5	0.10	981	7539	4.990	50.10	49.900	-0.40%
K	2450	BODY	10/21/2021	22.4	22.9	0.10	719	3914	5.210	52.00	52.100	0.19%
L	2450	BODY	10/26/2021	21.9	20.9	0.10	797	7670	5.020	49.40	50.200	1.62%
L	2450	BODY	10/29/2021	22.1	20.2	0.10	981	7670	4.960	50.10	49.600	-1.00%
O	2450	BODY	10/29/2021	23.3	22.5	0.10	797	7659	4.770	49.40	47.700	-3.44%
L	2600	BODY	09/19/2021	21.1	21.5	0.10	1071	7539	5.250	54.30	52.500	-3.31%
K	2600	BODY	10/06/2021	23.5	23.0	0.10	1004	3914	5.440	55.40	54.400	-1.81%
K	2600	BODY	10/21/2021	22.4	22.9	0.10	1004	3914	5.560	55.40	55.600	0.36%
L	2600	BODY	10/26/2021	21.9	20.9	0.10	1064	7670	5.450	55.60	54.500	-1.98%
O	2600	BODY	10/27/2021	22.9	21.7	0.10	1064	7659	5.760	55.60	57.600	3.60%
I	3500	BODY	09/27/2021	22.7	20.7	0.10	1059	7551	6.210	63.00	62.100	-1.43%
I	3500	BODY	10/21/2021	21.0	21.0	0.10	1059	7661	6.760	63.00	67.600	7.30%
I	3700	BODY	09/27/2021	22.7	20.7	0.10	1018	7551	6.010	63.50	60.100	-5.35%
I	3700	BODY	10/21/2021	21.0	21.0	0.10	1018	7661	6.700	63.50	67.000	5.51%
I	3900	BODY	09/27/2021	22.7	20.7	0.10	1073	7551	6.640	64.30	66.400	3.27%
J	5250	BODY	10/20/2021	20.1	21.3	0.05	1057	7526	3.680	74.30	73.600	-0.94%
J	5600	BODY	10/20/2021	20.1	21.3	0.05	1057	7526	3.810	77.40	76.200	-1.55%
J	5750	BODY	10/20/2021	20.1	21.3	0.05	1057	7526	3.500	72.80	70.000	-3.85%
B	5800	BODY	11/04/2021	24.5	21.2	0.05	1191	7552	3.440	73.50	68.800	-6.39%

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Table 10-10
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 SAR10g (W/kg)	1W Target SAR10g (W/kg)	1W Normalized SAR10g (W/kg)	Deviation10g (%)
G	1750	BODY	09/12/2021	22.4	21.2	0.10	1148	7357	2.080	19.30	20.800	7.77%
G	1750	BODY	09/19/2021	24.2	22.6	0.10	1150	7357	2.090	19.40	20.900	7.73%
G	1750	BODY	10/19/2021	23.5	21.5	0.10	1148	7357	2.070	19.30	20.700	7.25%
P	1900	BODY	09/22/2021	22.1	21.3	0.10	5d148	7410	2.160	20.50	21.600	5.37%
P	1900	BODY	10/11/2021	23.3	22.0	0.10	5d148	7410	2.130	20.50	21.300	3.90%
P	1900	BODY	10/14/2021	23.5	23.0	0.10	5d080	7410	2.160	20.60	21.600	4.85%
D	1900	BODY	10/18/2021	23.9	21.2	0.10	5d148	3589	2.090	20.50	20.900	1.95%
L	2300	BODY	09/19/2021	21.1	21.5	0.10	1116	7539	2.310	23.70	23.100	-2.53%
K	2300	BODY	10/29/2021	23.4	22.6	0.10	1073	7538	2.330	23.40	23.300	-0.43%
L	2450	BODY	09/19/2021	21.1	21.5	0.10	981	7539	2.300	23.70	23.000	-2.95%
L	2450	BODY	10/26/2021	21.9	20.9	0.10	797	7670	2.280	23.40	22.800	-2.56%
L	2600	BODY	09/19/2021	21.1	21.5	0.10	1071	7539	2.320	24.10	23.200	-3.73%
L	2600	BODY	10/26/2021	21.9	20.9	0.10	1064	7670	2.370	25.00	23.700	-5.20%
L	2600	BODY	11/03/2021	23.5	21.2	0.10	1071	7670	2.260	24.10	22.600	-6.22%
L	2600	BODY	11/08/2021	23.1	20.5	0.10	1064	7670	2.340	25.00	23.400	-6.40%
I	3500	BODY	09/27/2021	22.7	20.7	0.10	1059	7551	2.350	23.30	23.500	0.86%
I	3700	BODY	10/31/2021	20.0	19.6	0.10	1018	7661	2.410	22.50	24.100	7.11%
I	3900	BODY	10/31/2021	20.0	19.6	0.10	1073	7661	2.230	22.00	22.300	1.36%
J	5250	BODY	10/20/2021	20.1	21.3	0.05	1057	7526	1.050	20.70	21.000	1.45%
J	5600	BODY	10/20/2021	20.1	21.3	0.05	1057	7526	1.060	21.40	21.200	-0.93%
J	5750	BODY	10/20/2021	20.1	21.3	0.05	1057	7526	0.997	20.00	19.940	-0.30%
B	5800	BODY	11/04/2021	24.5	21.2	0.05	1191	7552	0.970	20.20	19.400	-3.96%

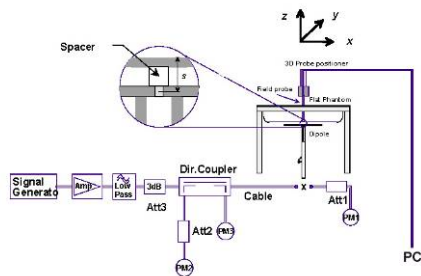


Figure 10-1
System Verification Setup Diagram



Figure 10-2
System Verification Setup Photo

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11 SAR DATA SUMMARY

11.1 Standalone Head SAR Data

**Table 11-1
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	33.0	31.95	0.14	Right	Cheek	0534M	1:8.3	0.111	1.274	0.141	A1
836.60	190	GSM 850	GSM	33.0	31.95	0.20	Right	Tilt	0534M	1:8.3	0.061	1.274	0.078	
836.60	190	GSM 850	GSM	33.0	31.95	-0.02	Left	Cheek	0534M	1:8.3	0.104	1.274	0.132	
836.60	190	GSM 850	GSM	33.0	31.95	0.13	Left	Tilt	0534M	1:8.3	0.065	1.274	0.083	
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
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)	
1909.80	810	GSM 1900	GSM	30.0	28.93	-0.02	Right	Cheek	0553M	1:8.3	0.053	1.279	0.068	
1909.80	810	GSM 1900	GSM	30.0	28.93	0.03	Right	Tilt	0553M	1:8.3	0.037	1.279	0.047	
1909.80	810	GSM 1900	GSM	30.0	28.93	-0.01	Left	Cheek	0553M	1:8.3	0.097	1.279	0.124	A2
1909.80	810	GSM 1900	GSM	30.0	28.93	0.13	Left	Tilt	0553M	1:8.3	0.031	1.279	0.040	
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
UMTS 850 Head SAR**

MEASUREMENT RESULTS															
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Tune State	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	4183	UMTS 850	RMC	25.5	24.41	14	0.06	Right	Cheek	0534M	1:1	0.266	1.285	0.342	A3
836.60	4183	UMTS 850	RMC	25.5	24.41	14	-0.17	Right	Tilt	0534M	1:1	0.173	1.285	0.222	
836.60	4183	UMTS 850	RMC	25.5	24.41	14	-0.02	Left	Cheek	0534M	1:1	0.209	1.285	0.269	
836.60	4183	UMTS 850	RMC	25.5	24.41	14	0.07	Left	Tilt	0534M	1:1	0.137	1.285	0.176	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population									Head 1.6 W/kg (mW/g) averaged over 1 gram						

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Table 11-4
UMTS 1750 Head SAR

MEASUREMENT RESULTS															
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Tune State	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)	
1712.40	1312	UMTS 1750	RMC	24.0	23.29	116	0.05	Right	Cheek	0553M	1:1	0.105	1.178	0.124	
1712.40	1312	UMTS 1750	RMC	24.0	23.29	116	-0.05	Right	Tilt	0553M	1:1	0.084	1.178	0.099	
1712.40	1312	UMTS 1750	RMC	24.0	23.29	116	-0.01	Left	Cheek	0553M	1:1	0.193	1.178	0.227	A4
1712.40	1312	UMTS 1750	RMC	24.0	23.29	116	-0.08	Left	Tilt	0553M	1:1	0.066	1.178	0.078	
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 11-5
UMTS 1900 Head SAR

MEASUREMENT RESULTS															
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Tune State	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)	
1907.60	9538	UMTS 1900	RMC	24.7	23.79	8	0.05	Right	Cheek	0553M	1:1	0.116	1.233	0.143	
1907.60	9538	UMTS 1900	RMC	24.7	23.79	8	-0.03	Right	Tilt	0553M	1:1	0.093	1.233	0.115	
1907.60	9538	UMTS 1900	RMC	24.7	23.79	8	0.03	Left	Cheek	0553M	1:1	0.209	1.233	0.258	A5
1907.60	9538	UMTS 1900	RMC	24.7	23.79	8	0.00	Left	Tilt	0553M	1:1	0.066	1.233	0.081	
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 11-6
LTE Band 71 Head SAR

MEASUREMENT RESULTS																				
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Tune State	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	25.5	25.33	106	0.00	0	Right	Cheek	QPSK	1	50	0540M	1:1	0.152	1.040	0.158	A6
680.50	133297	Mid	LTE Band 71	20	24.5	24.16	106	0.06	1	Right	Cheek	QPSK	50	25	0540M	1:1	0.119	1.081	0.129	
680.50	133297	Mid	LTE Band 71	20	25.5	25.33	106	0.08	0	Right	Tilt	QPSK	1	50	0540M	1:1	0.069	1.040	0.072	
680.50	133297	Mid	LTE Band 71	20	24.5	24.16	106	0.11	1	Right	Tilt	QPSK	50	25	0540M	1:1	0.052	1.081	0.056	
680.50	133297	Mid	LTE Band 71	20	25.5	25.33	106	0.15	0	Left	Cheek	QPSK	1	50	0540M	1:1	0.150	1.040	0.156	
680.50	133297	Mid	LTE Band 71	20	24.5	24.16	106	0.07	1	Left	Cheek	QPSK	50	25	0540M	1:1	0.117	1.081	0.126	
680.50	133297	Mid	LTE Band 71	20	25.5	25.33	106	0.08	0	Left	Tilt	QPSK	1	50	0540M	1:1	0.072	1.040	0.075	
680.50	133297	Mid	LTE Band 71	20	24.5	24.16	106	0.01	1	Left	Tilt	QPSK	50	25	0540M	1:1	0.056	1.081	0.061	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population										Head 1.6 W/kg (mW/g) averaged over 1 gram										

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Table 11-7
LTE Band 12 Head SAR

MEASUREMENT RESULTS																				
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Tune State	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	25.5	25.50	106	0.05	0	Right	Cheek	QPSK	1	49	0540M	1:1	0.208	1.000	0.208	
707.50	23095	Mid	LTE Band 12	10	24.5	24.23	106	-0.01	1	Right	Cheek	QPSK	25	12	0540M	1:1	0.167	1.064	0.178	
707.50	23095	Mid	LTE Band 12	10	25.5	25.50	106	0.17	0	Right	Tilt	QPSK	1	49	0540M	1:1	0.106	1.000	0.106	
707.50	23095	Mid	LTE Band 12	10	24.5	24.23	106	0.06	1	Right	Tilt	QPSK	25	12	0540M	1:1	0.077	1.064	0.082	
707.50	23095	Mid	LTE Band 12	10	25.5	25.50	106	0.15	0	Left	Cheek	QPSK	1	49	0540M	1:1	0.226	1.000	0.226	A7
707.50	23095	Mid	LTE Band 12	10	24.5	24.23	106	0.05	1	Left	Cheek	QPSK	25	12	0540M	1:1	0.181	1.064	0.193	
707.50	23095	Mid	LTE Band 12	10	25.5	25.50	106	-0.02	0	Left	Tilt	QPSK	1	49	0540M	1:1	0.148	1.000	0.148	
707.50	23095	Mid	LTE Band 12	10	24.5	24.23	106	0.05	1	Left	Tilt	QPSK	25	12	0540M	1:1	0.109	1.064	0.116	
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
LTE Band 13 Head SAR

MEASUREMENT RESULTS																				
FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Tune State	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	25.5	25.19	26	-0.01	0	Right	Cheek	QPSK	1	0	0540M	1:1	0.226	1.074	0.243	A8
782.00	23230	Mid	LTE Band 13	10	24.5	24.20	26	0.02	1	Right	Cheek	QPSK	25	12	0540M	1:1	0.193	1.072	0.207	
782.00	23230	Mid	LTE Band 13	10	25.5	25.19	26	0.15	0	Right	Tilt	QPSK	1	0	0540M	1:1	0.140	1.074	0.150	
782.00	23230	Mid	LTE Band 13	10	24.5	24.20	26	0.06	1	Right	Tilt	QPSK	25	12	0540M	1:1	0.108	1.072	0.116	
782.00	23230	Mid	LTE Band 13	10	25.5	25.19	26	0.16	0	Left	Cheek	QPSK	1	0	0540M	1:1	0.219	1.074	0.235	
782.00	23230	Mid	LTE Band 13	10	24.5	24.20	26	0.08	1	Left	Cheek	QPSK	25	12	0540M	1:1	0.165	1.072	0.177	
782.00	23230	Mid	LTE Band 13	10	25.5	25.19	26	-0.13	0	Left	Tilt	QPSK	1	0	0540M	1:1	0.152	1.074	0.163	
782.00	23230	Mid	LTE Band 13	10	24.5	24.20	26	0.05	1	Left	Tilt	QPSK	25	12	0540M	1:1	0.117	1.072	0.125	
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 14 Head SAR

MEASUREMENT RESULTS																				
FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Tune State	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	25.5	25.35	54	0.16	0	Right	Cheek	QPSK	1	25	0540M	1:1	0.258	1.035	0.267	A9
793.00	23330	Mid	LTE Band 14	10	24.5	24.36	54	0.04	1	Right	Cheek	QPSK	25	12	0540M	1:1	0.193	1.033	0.199	
793.00	23330	Mid	LTE Band 14	10	25.5	25.35	54	0.07	0	Right	Tilt	QPSK	1	25	0540M	1:1	0.140	1.035	0.145	
793.00	23330	Mid	LTE Band 14	10	24.5	24.36	54	0.01	1	Right	Tilt	QPSK	25	12	0540M	1:1	0.110	1.033	0.114	
793.00	23330	Mid	LTE Band 14	10	25.5	25.35	54	0.08	0	Left	Cheek	QPSK	1	25	0540M	1:1	0.197	1.035	0.204	
793.00	23330	Mid	LTE Band 14	10	24.5	24.36	54	0.09	1	Left	Cheek	QPSK	25	12	0540M	1:1	0.153	1.033	0.158	
793.00	23330	Mid	LTE Band 14	10	25.5	25.35	54	-0.01	0	Left	Tilt	QPSK	1	25	0540M	1:1	0.137	1.035	0.142	
793.00	23330	Mid	LTE Band 14	10	24.5	24.36	54	0.09	1	Left	Tilt	QPSK	25	12	0540M	1:1	0.104	1.033	0.107	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population											Head 1.6 W/kg (mW/g) averaged over 1 gram									

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Table 11-10
LTE Band 26 (Cell) Head SAR

MEASUREMENT RESULTS																				
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Tune State	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	25.5	25.50	14	0.08	0	Right	Cheek	QPSK	1	0	0540M	1:1	0.254	1.000	0.254	A10
831.50	26865	Mid	LTE Band 26 (Cell)	15	24.5	24.27	14	0.04	1	Right	Cheek	QPSK	36	18	0540M	1:1	0.194	1.054	0.204	
831.50	26865	Mid	LTE Band 26 (Cell)	15	25.5	25.50	14	-0.03	0	Right	Tilt	QPSK	1	0	0540M	1:1	0.140	1.000	0.140	
831.50	26865	Mid	LTE Band 26 (Cell)	15	24.5	24.27	14	0.02	1	Right	Tilt	QPSK	36	18	0540M	1:1	0.105	1.054	0.111	
831.50	26865	Mid	LTE Band 26 (Cell)	15	25.5	25.50	14	0.10	0	Left	Cheek	QPSK	1	0	0540M	1:1	0.208	1.000	0.208	
831.50	26865	Mid	LTE Band 26 (Cell)	15	24.5	24.27	14	0.06	1	Left	Cheek	QPSK	36	18	0540M	1:1	0.154	1.054	0.162	
831.50	26865	Mid	LTE Band 26 (Cell)	15	25.5	25.50	14	-0.02	0	Left	Tilt	QPSK	1	0	0540M	1:1	0.145	1.000	0.145	
831.50	26865	Mid	LTE Band 26 (Cell)	15	24.5	24.27	14	0.14	1	Left	Tilt	QPSK	36	18	0540M	1:1	0.103	1.054	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 11-11
LTE Band 5 (Cell) Head SAR

MEASUREMENT RESULTS																						
1 CC Uplink 2 CC Uplink	Component Carrier	FREQUENCY		Mode	Bandwidth [MHz]	Maxim um Allowed Power [dBm]	Conducted Power [dBm]	Tune State	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	25.5	24.50	1	0.07	0	Right	Cheek	QPSK	1	0	0277M	1:1	0.275	1.259	0.346	A11
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	24.5	23.38	1	0.00	1	Right	Cheek	QPSK	25	25	0277M	1:1	0.216	1.294	0.280	
2 CC Uplink	PCC	836.50	20525	Mid	LTE Band 5 (Cell)	10	25.5	24.45	1	-0.15	0	Right	Cheek	QPSK	1	0	0277M	1:1	0.275	1.274	0.350	
	SCC	829.30	20453			5									1	24						
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	25.5	24.50	1	-0.02	0	Right	Tilt	QPSK	1	0	0277M	1:1	0.177	1.259	0.223	
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	24.5	23.38	1	-0.02	1	Right	Tilt	QPSK	25	25	0277M	1:1	0.126	1.294	0.163	
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	25.5	24.50	1	-0.09	0	Left	Cheek	QPSK	1	0	0277M	1:1	0.211	1.259	0.266	
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	24.5	23.38	1	-0.02	1	Left	Cheek	QPSK	25	25	0277M	1:1	0.171	1.294	0.221	
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	25.5	24.50	1	-0.04	0	Left	Tilt	QPSK	1	0	0277M	1:1	0.157	1.259	0.198	
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	24.5	23.38	1	-0.03	1	Left	Tilt	QPSK	25	25	0277M	1:1	0.125	1.294	0.162	
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 66 (AWS) Head SAR

MEASUREMENT RESULTS																						
1 CC Uplink 2 CC Uplink	Component Carrier	FREQUENCY			Mode	Bandwidth [MHz]	Maxim um Allowed Power [dBm]	Conducted Power [dBm]	Tune State	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	1770.00	132572	High	LTE Band 66 (AWS)	20	24.5	23.93	14	0.05	0	Right	Cheek	QPSK	1	0	0427M	1:1	0.136	1.140	0.155	
1 CC Uplink	N/A	1770.00	132572	High	LTE Band 66 (AWS)	20	23.5	22.95	14	-0.07	1	Right	Cheek	QPSK	50	50	0427M	1:1	0.105	1.135	0.119	
1 CC Uplink	N/A	1770.00	132572	High	LTE Band 66 (AWS)	20	24.5	23.93	14	0.14	0	Right	Tilt	QPSK	1	0	0427M	1:1	0.104	1.140	0.119	
1 CC Uplink	N/A	1770.00	132572	High	LTE Band 66 (AWS)	20	23.5	22.95	14	0.15	1	Right	Tilt	QPSK	50	50	0427M	1:1	0.060	1.135	0.068	
1 CC Uplink	N/A	1770.00	132572	High	LTE Band 66 (AWS)	20	24.5	23.93	14	0.05	0	Left	Cheek	QPSK	1	0	0427M	1:1	0.276	1.140	0.315	
1 CC Uplink	N/A	1770.00	132572	High	LTE Band 66 (AWS)	20	23.5	22.95	14	-0.03	1	Left	Cheek	QPSK	50	50	0427M	1:1	0.194	1.135	0.220	
1 CC Uplink	N/A	1775.00	132622	High	LTE Band 66 (AWS)	10	24.5	23.74	14	-0.11	0	Left	Cheek	QPSK	1	0	0427M	1:1	0.272	1.191	0.324	
2 CC Uplink CA_66C	PCC	1770.00	132572	High	LTE Band 66 (AWS)	20	24.5	23.79	14	-0.20	0	Left	Cheek	QPSK	1	0	0427M	1:1	0.280	1.178	0.330	
	SCC	1750.20	132374												1	99						
2 CC Uplink CA_66B	PCC	1775.00	132622	High	LTE Band 66 (AWS)	10	24.5	24.00	14	-0.05	0	Left	Cheek	QPSK	1	0	0427M	1:1	0.281	1.122	0.315	A12
	SCC	1765.10	132523												1	49						
1 CC Uplink	N/A	1770.00	132572	High	LTE Band 66 (AWS)	20	24.5	23.93	14	0.09	0	Left	Tilt	QPSK	1	0	0427M	1:1	0.056	1.140	0.064	
1 CC Uplink	N/A	1770.00	132572	High	LTE Band 66 (AWS)	20	23.5	22.95	14	0.11	1	Left	Tilt	QPSK	50	50	0427M	1:1	0.048	1.135	0.054	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT															Head							
Spatial Peak															1.6 W/kg (mW/g)							
Uncontrolled Exposure/General Population															averaged over 1 gram							

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Table 11-13
LTE Band 25 (PCS) Head SAR

MEASUREMENT RESULTS																				
FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Tune State	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)	
1860.00	26140	Low	LTE Band 25 (PCS)	20	24.7	23.77	0	0.10	0	Right	Cheek	QPSK	1	0	0586M	1:1	0.127	1.239	0.157	
1860.00	26140	Low	LTE Band 25 (PCS)	20	23.7	22.77	0	0.12	1	Right	Cheek	QPSK	50	0	0586M	1:1	0.101	1.239	0.125	
1860.00	26140	Low	LTE Band 25 (PCS)	20	24.7	23.77	0	-0.14	0	Right	Tilt	QPSK	1	0	0586M	1:1	0.101	1.239	0.125	
1860.00	26140	Low	LTE Band 25 (PCS)	20	23.7	22.77	0	-0.16	1	Right	Tilt	QPSK	50	0	0586M	1:1	0.087	1.239	0.108	A13
1860.00	26140	Low	LTE Band 25 (PCS)	20	24.7	23.77	0	0.19	0	Left	Cheek	QPSK	1	0	0586M	1:1	0.241	1.239	0.299	
1860.00	26140	Low	LTE Band 25 (PCS)	20	23.7	22.77	0	0.07	1	Left	Cheek	QPSK	50	0	0586M	1:1	0.206	1.239	0.255	
1860.00	26140	Low	LTE Band 25 (PCS)	20	24.7	23.77	0	0.14	0	Left	Tilt	QPSK	1	0	0586M	1:1	0.099	1.239	0.123	
1860.00	26140	Low	LTE Band 25 (PCS)	20	23.7	22.77	0	0.03	1	Left	Tilt	QPSK	50	0	0586M	1:1	0.077	1.239	0.095	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak											Head 1.6 W/kg (mW/g)									
Uncontrolled Exposure/General Population											averaged over 1 gram									

Table 11-14
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	Antenna Config.	Modulation	RB Size	RB Offset	Device Serial Number	Duty Cycle	SAR(1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.	(W/kg)															(W/kg)			
2310.00	27710	Mid	LTE Band 30	10	23.5	22.44	0.14	0	Right	Cheek	A	QPSK	1	25	0577M	1:1	0.067	1.276	0.085	A14
2310.00	27710	Mid	LTE Band 30	10	22.5	21.35	-0.18	1	Right	Cheek	A	QPSK	25	12	0577M	1:1	0.050	1.303	0.065	
2310.00	27710	Mid	LTE Band 30	10	23.5	22.44	0.08	0	Right	Tilt	A	QPSK	1	25	0577M	1:1	0.078	1.276	0.100	
2310.00	27710	Mid	LTE Band 30	10	22.5	21.35	0.18	1	Right	Tilt	A	QPSK	25	12	0577M	1:1	0.062	1.303	0.081	
2310.00	27710	Mid	LTE Band 30	10	23.5	22.44	-0.10	0	Left	Cheek	A	QPSK	1	25	0577M	1:1	0.064	1.276	0.082	
2310.00	27710	Mid	LTE Band 30	10	22.5	21.35	-0.04	1	Left	Cheek	A	QPSK	25	12	0577M	1:1	0.051	1.303	0.066	
2310.00	27710	Mid	LTE Band 30	10	23.5	22.44	-0.13	0	Left	Tilt	A	QPSK	1	25	0577M	1:1	0.050	1.276	0.064	
2310.00	27710	Mid	LTE Band 30	10	22.5	21.35	-0.06	1	Left	Tilt	A	QPSK	25	12	0577M	1:1	0.037	1.303	0.048	
2310.00	27710	Mid	LTE Band 30	10	23.5	22.67	-0.12	0	Right	Cheek	B	QPSK	1	25	0997M	1:1	0.029	1.211	0.035	
2310.00	27710	Mid	LTE Band 30	10	22.5	21.58	0.00	1	Right	Cheek	B	QPSK	25	12	0997M	1:1	0.022	1.236	0.027	
2310.00	27710	Mid	LTE Band 30	10	23.5	22.67	-0.04	0	Right	Tilt	B	QPSK	1	25	0997M	1:1	0.033	1.211	0.040	
2310.00	27710	Mid	LTE Band 30	10	22.5	21.58	-0.06	1	Right	Tilt	B	QPSK	25	12	0997M	1:1	0.028	1.236	0.035	
2310.00	27710	Mid	LTE Band 30	10	23.5	22.67	0.07	0	Left	Cheek	B	QPSK	1	25	0997M	1:1	0.042	1.211	0.051	
2310.00	27710	Mid	LTE Band 30	10	22.5	21.58	0.06	1	Left	Cheek	B	QPSK	25	12	0997M	1:1	0.033	1.236	0.041	
2310.00	27710	Mid	LTE Band 30	10	23.5	22.67	-0.13	0	Left	Tilt	B	QPSK	1	25	0997M	1:1	0.021	1.211	0.025	
2310.00	27710	Mid	LTE Band 30	10	22.5	21.58	-0.09	1	Left	Tilt	B	QPSK	25	12	0997M	1:1	0.016	1.236	0.020	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population										Head 1.6 W/kg (mW/g) averaged over 1 gram										

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Table 11-15
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	23.02	-0.02	0	Right	Cheek	QPSK	1	99	0570M	1:1	0.054	1.253	0.068	
2560.00	21350	High	LTE Band 7	20	23.0	21.85	-0.01	1	Right	Cheek	QPSK	50	50	0570M	1:1	0.044	1.303	0.057	
2560.00	21350	High	LTE Band 7	20	24.0	23.02	-0.15	0	Right	Tilt	QPSK	1	99	0570M	1:1	0.042	1.253	0.053	
2560.00	21350	High	LTE Band 7	20	23.0	21.85	0.12	1	Right	Tilt	QPSK	50	50	0570M	1:1	0.033	1.303	0.043	
2560.00	21350	High	LTE Band 7	20	24.0	23.02	0.03	0	Left	Cheek	QPSK	1	99	0570M	1:1	0.056	1.253	0.070	A15
2560.00	21350	High	LTE Band 7	20	23.0	21.85	-0.03	1	Left	Cheek	QPSK	50	50	0570M	1:1	0.044	1.303	0.057	
2560.00	21350	High	LTE Band 7	20	24.0	23.02	-0.21	0	Left	Tilt	QPSK	1	99	0570M	1:1	0.054	1.253	0.068	
2560.00	21350	High	LTE Band 7	20	23.0	21.85	0.06	1	Left	Tilt	QPSK	50	50	0570M	1:1	0.041	1.303	0.053	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT																			
Spatial Peak										Head									
Uncontrolled Exposure/General Population										1.6 W/kg (mW/g) averaged over 1 gram									

Table 11-16
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	2593.00	40620	Mid	LTE Band 41	20	25.0	24.06	0.18	0	Right	Cheek	QPSK	1	50	0421M	1:1.58	0.046	1.242	0.057	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	24.0	23.01	-0.04	1	Right	Cheek	QPSK	50	25	0421M	1:1.58	0.036	1.256	0.045	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	25.0	24.06	0.12	0	Right	Tilt	QPSK	1	50	0421M	1:1.58	0.029	1.242	0.036	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	24.0	23.01	0.04	1	Right	Tilt	QPSK	50	25	0421M	1:1.58	0.025	1.256	0.031	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	25.0	24.06	0.08	0	Left	Cheek	QPSK	1	50	0421M	1:1.58	0.087	1.242	0.108	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	25.0	23.68	-0.02	0	Left	Cheek	QPSK	1	99	0421M	1:1.58	0.091	1.355	0.123	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	24.0	23.01	0.03	1	Left	Cheek	QPSK	50	25	0421M	1:1.58	0.069	1.256	0.087	
1 CC Uplink - Power Class 2	N/A	2593.00	40620	Mid	LTE Band 41	20	26.7	25.65	0.03	0	Left	Cheek	QPSK	1	50	0421M	12:31	0.088	1.274	0.112	
1 CC Uplink - Power Class 2	N/A	2593.00	40620	Mid	LTE Band 41	20	26.7	25.24	-0.13	0	Left	Cheek	QPSK	1	99	0421M	12:31	0.088	1.400	0.123	
2 CC Uplink - Power Class 3	PCC	2593.00	40620	Mid	LTE Band 41	20	25.0	23.78	-0.14	0	Left	Cheek	QPSK	1	99	0421M	1:1.58	0.090	1.324	0.119	
	SCC	2612.80	40818											1	0						
2 CC Uplink - Power Class 2	PCC	2593.00	40620	Mid	LTE Band 41	20	26.7	25.54	-0.02	0	Left	Cheek	QPSK	1	99	0421M	12:31	0.099	1.306	0.129	
	SCC	2612.80	40818											1	0						
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	25.0	24.06	0.03	0	Left	Tilt	QPSK	1	50	0421M	1:1.58	0.046	1.242	0.057	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	24.0	23.01	0.11	1	Left	Tilt	QPSK	50	25	0421M	1:1.58	0.036	1.256	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									

FCC ID: A3LSMS901U	 PCTEST Proud to be part of element	SAR EVALUATION REPORT		Approved by: Quality Manager
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Table 11-17
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	17.5	16.94	0.03	0	Right	Cheek	QPSK	1	50	0950M	1:1.58	0.649	1.138	0.739	
1 CC Uplink	N/A	3603.30	55773	Low-Md	LTE Band 48	20	17.5	17.11	-0.06	0	Right	Cheek	QPSK	1	99	0950M	1:1.58	0.660	1.094	0.722	
1 CC Uplink	N/A	3646.70	56207	Mid-High	LTE Band 48	20	17.5	17.05	-0.01	0	Right	Cheek	QPSK	1	99	0950M	1:1.58	0.670	1.109	0.743	
1 CC Uplink	N/A	3690.00	56640	High	LTE Band 48	20	17.5	17.43	0.01	0	Right	Cheek	QPSK	1	50	0950M	1:1.58	0.728	1.016	0.740	
1 CC Uplink	N/A	3560.00	55340	Low	LTE Band 48	20	17.5	16.97	-0.05	0	Right	Cheek	QPSK	50	25	0950M	1:1.58	0.651	1.130	0.736	
1 CC Uplink	N/A	3603.30	55773	Low-Md	LTE Band 48	20	17.5	17.13	-0.01	0	Right	Cheek	QPSK	50	25	0950M	1:1.58	0.649	1.089	0.707	
1 CC Uplink	N/A	3646.70	56207	Mid-High	LTE Band 48	20	17.5	17.15	0.04	0	Right	Cheek	QPSK	50	25	0950M	1:1.58	0.676	1.084	0.733	
1 CC Uplink	N/A	3690.00	56640	High	LTE Band 48	20	17.5	17.21	-0.03	0	Right	Cheek	QPSK	50	0	0950M	1:1.58	0.666	1.069	0.712	
1 CC Uplink	N/A	3690.00	56640	High	LTE Band 48	20	17.5	17.30	0.00	0	Right	Cheek	QPSK	50	25	0950M	1:1.58	0.728	1.047	0.762	A17
1 CC Uplink	N/A	3690.00	56640	High	LTE Band 48	20	17.5	17.20	0.01	0	Right	Cheek	QPSK	100	0	0950M	1:1.58	0.695	1.072	0.745	
2 CC Uplink	PCC	3690.00	56640	High	LTE Band 48	20	17.5	17.47	-0.03	0	Right	Cheek	QPSK	50	0	0950M	1:1.58	0.676	1.007	0.681	
	SCC	3670.20	56442											50	50						
1 CC Uplink	N/A	3690.00	56640	High	LTE Band 48	20	17.5	17.43	-0.02	0	Right	Tilt	QPSK	1	50	0950M	1:1.58	0.349	1.016	0.355	
1 CC Uplink	N/A	3690.00	56640	High	LTE Band 48	20	17.5	17.30	0.00	0	Right	Tilt	QPSK	50	25	0950M	1:1.58	0.335	1.047	0.351	
1 CC Uplink	N/A	3690.00	56640	High	LTE Band 48	20	17.5	17.43	0.10	0	Left	Cheek	QPSK	1	50	0950M	1:1.58	0.185	1.016	0.188	
1 CC Uplink	N/A	3690.00	56640	High	LTE Band 48	20	17.5	17.30	0.02	0	Left	Cheek	QPSK	50	25	0950M	1:1.58	0.182	1.047	0.191	
1 CC Uplink	N/A	3690.00	56640	High	LTE Band 48	20	17.5	17.43	-0.02	0	Left	Tilt	QPSK	1	50	0950M	1:1.58	0.211	1.016	0.214	
1 CC Uplink	N/A	3690.00	56640	High	LTE Band 48	20	17.5	17.30	0.09	0	Left	Tilt	QPSK	50	25	0950M	1:1.58	0.210	1.047	0.220	
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
NR Band n71 Head SAR

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Side	Test Position	Tune State	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	Md	NR Band n71	20	25.5	24.23	0.05	0	Right	Cheek	0	DFT-S-OFDM	QPSK	1	53	0194M	1:1	0.160	1.340	0.214	
680.50	136100	Md	NR Band n71	20	25.5	24.40	0.04	0	Right	Cheek	0	DFT-S-OFDM	QPSK	50	28	0194M	1:1	0.169	1.288	0.218	A18
680.50	136100	Md	NR Band n71	20	24.0	22.89	-0.07	1.5	Right	Cheek	0	CP-OFDM	QPSK	1	1	0194M	1:1	0.098	1.291	0.127	
680.50	136100	Md	NR Band n71	20	25.5	24.23	-0.03	0	Right	Tilt	0	DFT-S-OFDM	QPSK	1	53	0194M	1:1	0.092	1.340	0.123	
680.50	136100	Md	NR Band n71	20	25.5	24.40	-0.01	0	Right	Tilt	0	DFT-S-OFDM	QPSK	50	28	0194M	1:1	0.085	1.288	0.109	
680.50	136100	Md	NR Band n71	20	25.5	24.23	0.09	0	Left	Cheek	0	DFT-S-OFDM	QPSK	1	53	0194M	1:1	0.153	1.340	0.205	
680.50	136100	Md	NR Band n71	20	25.5	24.40	-0.02	0	Left	Cheek	0	DFT-S-OFDM	QPSK	50	28	0194M	1:1	0.164	1.288	0.211	
680.50	136100	Md	NR Band n71	20	25.5	24.23	0.21	0	Left	Tilt	0	DFT-S-OFDM	QPSK	1	53	0194M	1:1	0.090	1.340	0.121	
680.50	136100	Md	NR Band n71	20	25.5	24.40	0.01	0	Left	Tilt	0	DFT-S-OFDM	QPSK	50	28	0194M	1:1	0.093	1.288	0.120	
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
NR Band n12 Head SAR

MEASUREMENT RESULTS																						
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Side	Test Position	Tune State	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	Md	NR Band n12	15	25.5	24.16	-0.05	0	Right	Cheek	2	DFT-S-OFDM	QPSK	1	40	0194M	1:1	0.207	1.361	0.282		
707.50	141500	Md	NR Band n12	15	25.5	24.37	0.04	0	Right	Cheek	2	DFT-S-OFDM	QPSK	36	22	0194M	1:1	0.214	1.297	0.278		
707.50	141500	Md	NR Band n12	15	25.5	24.16	0.17	0	Right	Tilt	2	DFT-S-OFDM	QPSK	1	40	0194M	1:1	0.105	1.361	0.143		
707.50	141500	Md	NR Band n12	15	25.5	24.37	0.09	0	Right	Tilt	2	DFT-S-OFDM	QPSK	36	22	0194M	1:1	0.109	1.297	0.141		
707.50	141500	Md	NR Band n12	15	25.5	24.16	0.04	0	Left	Cheek	2	DFT-S-OFDM	QPSK	1	40	0194M	1:1	0.212	1.361	0.289		
707.50	141500	Md	NR Band n12	15	25.5	24.37	-0.08	0	Left	Cheek	2	DFT-S-OFDM	QPSK	36	22	0194M	1:1	0.222	1.297	0.288	A19	
707.50	141500	Md	NR Band n12	15	24.0	22.65	0.04	1.5	Left	Cheek	2	CP-OFDM	QPSK	1	1	0194M	1:1	0.145	1.365	0.198		
707.50	141500	Md	NR Band n12	15	25.5	24.16	0.04	0	Left	Tilt	2	DFT-S-OFDM	QPSK	1	40	0194M	1:1	0.129	1.361	0.176		
707.50	141500	Md	NR Band n12	15	25.5	24.37	-0.01	0	Left	Tilt	2	DFT-S-OFDM	QPSK	36	22	0194M	1:1	0.132	1.297	0.171		
ANSI / IEEE C95.1 1992 - SAFETY LIMIT										Head												
Spatial Peak										1.6 W/kg (mW/g)												
Uncontrolled Exposure/General Population										averaged over 1 gram												

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Table 11-20
NR Band n5 Head SAR

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Side	Test Position	Tune State	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	25.5	24.08	-0.08	0	Right	Cheek	1	DFT-S-OFDM	QPSK	1	1	0194M	1:1	0.244	1.387	0.338	A20
836.50	167300	Mid	NR Band n5 (Cell)	20	25.5	24.13	0.01	0	Right	Cheek	1	DFT-S-OFDM	QPSK	50	28	0194M	1:1	0.248	1.371	0.340	
836.50	167300	Mid	NR Band n5 (Cell)	20	24.0	22.77	0.00	1.5	Right	Cheek	1	CP-OFDM	QPSK	1	1	0194M	1:1	0.178	1.327	0.236	
836.50	167300	Mid	NR Band n5 (Cell)	20	25.5	24.08	0.03	0	Right	Tilt	1	DFT-S-OFDM	QPSK	1	1	0194M	1:1	0.143	1.387	0.198	
836.50	167300	Mid	NR Band n5 (Cell)	20	25.5	24.13	-0.04	0	Right	Tilt	1	DFT-S-OFDM	QPSK	50	28	0194M	1:1	0.133	1.371	0.182	
836.50	167300	Mid	NR Band n5 (Cell)	20	25.5	24.08	0.01	0	Left	Cheek	1	DFT-S-OFDM	QPSK	1	1	0194M	1:1	0.233	1.387	0.323	
836.50	167300	Mid	NR Band n5 (Cell)	20	25.5	24.13	0.00	0	Left	Cheek	1	DFT-S-OFDM	QPSK	50	28	0194M	1:1	0.214	1.371	0.293	
836.50	167300	Mid	NR Band n5 (Cell)	20	25.5	24.08	0.08	0	Left	Tilt	1	DFT-S-OFDM	QPSK	1	1	0194M	1:1	0.168	1.387	0.233	
836.50	167300	Mid	NR Band n5 (Cell)	20	25.5	24.13	0.00	0	Left	Tilt	1	DFT-S-OFDM	QPSK	50	28	0194M	1:1	0.155	1.371	0.213	
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 n66 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	Tune State	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	23.3	22.80	A	-0.12	0	Right	Cheek	14	DFT-S-OFDM	QPSK	1	214	0274M	1:1	0.143	1.122	0.160	A21
1745.00	349000	Mid	NR Band n66 (AWS)	40	23.3	22.94	A	0.03	0	Right	Cheek	14	DFT-S-OFDM	QPSK	108	108	0274M	1:1	0.149	1.086	0.162	
1745.00	349000	Mid	NR Band n66 (AWS)	40	23.3	22.80	A	0.00	0	Right	Tilt	14	DFT-S-OFDM	QPSK	1	214	0274M	1:1	0.113	1.122	0.127	
1745.00	349000	Mid	NR Band n66 (AWS)	40	23.3	22.94	A	0.09	0	Right	Tilt	14	DFT-S-OFDM	QPSK	108	108	0274M	1:1	0.112	1.086	0.122	
1745.00	349000	Mid	NR Band n66 (AWS)	40	23.3	22.80	A	0.13	0	Left	Cheek	14	DFT-S-OFDM	QPSK	1	214	0274M	1:1	0.238	1.122	0.287	
1745.00	349000	Mid	NR Band n66 (AWS)	40	23.3	22.94	A	0.12	0	Left	Cheek	14	DFT-S-OFDM	QPSK	108	108	0274M	1:1	0.271	1.086	0.294	
1745.00	349000	Mid	NR Band n66 (AWS)	40	23.3	22.64	A	0.08	0	Left	Cheek	14	CP-OFDM	QPSK	1	1	0274M	1:1	0.229	1.164	0.287	
1745.00	349000	Mid	NR Band n66 (AWS)	40	23.3	22.80	A	0.19	0	Left	Tilt	14	DFT-S-OFDM	QPSK	1	214	0274M	1:1	0.068	1.122	0.076	
1745.00	349000	Mid	NR Band n66 (AWS)	40	23.3	22.94	A	-0.14	0	Left	Tilt	14	DFT-S-OFDM	QPSK	108	108	0274M	1:1	0.088	1.086	0.096	
1745.00	349000	Mid	NR Band n66 (AWS)	40	18.5	18.19	F	-0.03	0	Right	Cheek	N/A	DFT-S-OFDM	QPSK	1	1	0198M	1:1	0.328	1.074	0.350	
1745.00	349000	Mid	NR Band n66 (AWS)	40	18.5	18.27	F	0.03	0	Right	Cheek	N/A	DFT-S-OFDM	QPSK	108	108	0198M	1:1	0.338	1.054	0.356	
1745.00	349000	Mid	NR Band n66 (AWS)	40	18.5	18.19	F	0.05	0	Right	Tilt	N/A	DFT-S-OFDM	QPSK	1	1	0198M	1:1	0.580	1.074	0.623	
1745.00	349000	Mid	NR Band n66 (AWS)	40	18.5	18.27	F	0.09	0	Right	Tilt	N/A	DFT-S-OFDM	QPSK	108	108	0198M	1:1	0.595	1.054	0.627	
1745.00	349000	Mid	NR Band n66 (AWS)	40	18.5	18.19	F	0.12	0	Left	Cheek	N/A	DFT-S-OFDM	QPSK	1	1	0198M	1:1	0.632	1.074	0.679	
1745.00	349000	Mid	NR Band n66 (AWS)	40	18.5	18.27	F	-0.01	0	Left	Cheek	N/A	DFT-S-OFDM	QPSK	108	108	0198M	1:1	0.637	1.054	0.671	
1745.00	349000	Mid	NR Band n66 (AWS)	40	18.5	18.19	F	0.15	0	Left	Tilt	N/A	DFT-S-OFDM	QPSK	1	1	0198M	1:1	0.795	1.074	0.854	
1745.00	349000	Mid	NR Band n66 (AWS)	40	18.5	18.27	F	0.05	0	Left	Tilt	N/A	DFT-S-OFDM	QPSK	108	108	0198M	1:1	0.793	1.054	0.836	
1745.00	349000	Mid	NR Band n66 (AWS)	40	18.5	18.18	F	-0.03	0	Left	Tilt	N/A	DFT-S-OFDM	QPSK	216	0	0198M	1:1	0.792	1.076	0.852	
1745.00	349000	Mid	NR Band n66 (AWS)	40	18.5	18.00	F	-0.02	0	Left	Tilt	N/A	CP-OFDM	QPSK	1	1	0198M	1:1	0.832	1.122	0.934	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT										Head												
Spatial Peak										1.6 W/kg (mW/g)												
Uncontrolled Exposure/General Population										averaged over 1 gram												

FCC ID: A3LSMS901U	 PCTEST Proud to be part of element	SAR EVALUATION REPORT		Approved by: Quality Manager
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Table 11-22
NR Band n25 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	Tune State	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	24.7	23.76	A	0.15	0	Right	Cheek	2	DFT-S-OFDM	QPSK	1	108	0303M	1:1	0.147	1.242	0.183	
1882.50	376500	Mid	NR Band n25 (PCS)	40	24.7	24.11	A	0.14	0	Right	Cheek	2	DFT-S-OFDM	QPSK	108	54	0303M	1:1	0.152	1.146	0.174	
1882.50	376500	Mid	NR Band n25 (PCS)	40	24.7	23.76	A	0.13	0	Right	Tilt	2	DFT-S-OFDM	QPSK	1	108	0303M	1:1	0.127	1.242	0.158	
1882.50	376500	Mid	NR Band n25 (PCS)	40	24.7	24.11	A	0.12	0	Right	Tilt	2	DFT-S-OFDM	QPSK	108	54	0303M	1:1	0.117	1.146	0.134	
1882.50	376500	Mid	NR Band n25 (PCS)	40	24.7	23.76	A	0.03	0	Left	Cheek	2	DFT-S-OFDM	QPSK	1	108	0303M	1:1	0.273	1.242	0.339	
1882.50	376500	Mid	NR Band n25 (PCS)	40	24.7	24.11	A	0.07	0	Left	Cheek	2	DFT-S-OFDM	QPSK	108	54	0303M	1:1	0.217	1.146	0.249	
1882.50	376500	Mid	NR Band n25 (PCS)	40	23.2	22.57	A	-0.03	1.5	Left	Cheek	2	CP-OFDM	QPSK	1	1	0303M	1:1	0.179	1.156	0.207	
1882.50	376500	Mid	NR Band n25 (PCS)	40	24.7	23.76	A	0.15	0	Left	Tilt	2	DFT-S-OFDM	QPSK	1	108	0303M	1:1	0.079	1.242	0.098	
1882.50	376500	Mid	NR Band n25 (PCS)	40	24.7	24.11	A	0.09	0	Left	Tilt	2	DFT-S-OFDM	QPSK	108	54	0303M	1:1	0.077	1.146	0.088	
1882.50	376500	Mid	NR Band n25 (PCS)	40	20.5	20.33	F	-0.07	0	Right	Cheek	N/A	DFT-S-OFDM	QPSK	1	108	0198M	1:1	0.396	1.040	0.412	
1882.50	376500	Mid	NR Band n25 (PCS)	40	20.5	20.41	F	-0.11	0	Right	Cheek	N/A	DFT-S-OFDM	QPSK	108	108	0198M	1:1	0.414	1.021	0.423	
1882.50	376500	Mid	NR Band n25 (PCS)	40	20.5	20.33	F	0.06	0	Right	Tilt	N/A	DFT-S-OFDM	QPSK	1	108	0198M	1:1	0.519	1.040	0.540	
1882.50	376500	Mid	NR Band n25 (PCS)	40	20.5	20.41	F	-0.02	0	Right	Tilt	N/A	DFT-S-OFDM	QPSK	108	108	0198M	1:1	0.539	1.021	0.550	
1882.50	376500	Mid	NR Band n25 (PCS)	40	20.5	20.33	F	-0.02	0	Left	Cheek	N/A	DFT-S-OFDM	QPSK	1	108	0198M	1:1	0.589	1.040	0.613	
1882.50	376500	Mid	NR Band n25 (PCS)	40	20.5	20.41	F	0.05	0	Left	Cheek	N/A	DFT-S-OFDM	QPSK	108	108	0198M	1:1	0.602	1.021	0.615	
1882.50	376500	Mid	NR Band n25 (PCS)	40	20.5	20.33	F	0.04	0	Left	Tilt	N/A	DFT-S-OFDM	QPSK	1	108	0198M	1:1	0.738	1.040	0.768	
1882.50	376500	Mid	NR Band n25 (PCS)	40	20.5	20.41	F	-0.05	0	Left	Tilt	N/A	DFT-S-OFDM	QPSK	108	108	0198M	1:1	0.764	1.021	0.780	
1882.50	376500	Mid	NR Band n25 (PCS)	40	20.5	20.12	F	-0.03	0	Left	Tilt	N/A	CP-OFDM	QPSK	1	1	0198M	1:1	0.765	1.091	0.835	A22
ANSI / IEEE C95.1 1992 - SAFETY LIMIT												Head 1.6 W/kg (mW/g) averaged over 1 gram										
Spatial Peak																						
Uncontrolled Exposure/General Population																						

Table 11-23
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)	Scaling Factor	Reported SAR (1g)	Plot #	
MHz	Ch.																(W/kg)		(W/kg)		
2310.00	462000	Mid	NR Band n30	10	23.5	22.43	A	0.01	0	Right	Cheek	DFT-S-OFDM	QPSK	1	1	0292M	1:1	0.090	1.279	0.115	
2310.00	462000	Mid	NR Band n30	10	23.5	22.55	A	0.08	0	Right	Cheek	DFT-S-OFDM	QPSK	25	14	0292M	1:1	0.097	1.245	0.121	
2310.00	462000	Mid	NR Band n30	10	23.5	22.43	A	0.02	0	Right	Tilt	DFT-S-OFDM	QPSK	1	1	0292M	1:1	0.112	1.279	0.143	
2310.00	462000	Mid	NR Band n30	10	23.5	22.55	A	0.06	0	Right	Tilt	DFT-S-OFDM	QPSK	25	14	0292M	1:1	0.122	1.245	0.152	
2310.00	462000	Mid	NR Band n30	10	23.5	22.43	A	0.05	0	Left	Cheek	DFT-S-OFDM	QPSK	1	1	0292M	1:1	0.140	1.279	0.179	
2310.00	462000	Mid	NR Band n30	10	23.5	22.55	A	0.00	0	Left	Cheek	DFT-S-OFDM	QPSK	25	14	0292M	1:1	0.131	1.245	0.163	
2310.00	462000	Mid	NR Band n30	10	22.0	20.94	A	-0.02	1.5	Left	Cheek	CP-OFDM	QPSK	1	1	0292M	1:1	0.089	1.276	0.114	
2310.00	462000	Mid	NR Band n30	10	23.5	22.43	A	-0.09	0	Left	Tilt	DFT-S-OFDM	QPSK	1	1	0292M	1:1	0.082	1.279	0.105	
2310.00	462000	Mid	NR Band n30	10	23.5	22.55	A	0.01	0	Left	Tilt	DFT-S-OFDM	QPSK	25	14	0292M	1:1	0.093	1.245	0.116	
2310.00	462000	Mid	NR Band n30	10	23.5	23.35	B	0.10	0	Right	Cheek	DFT-S-OFDM	QPSK	1	1	0997M	1:1	0.029	1.035	0.030	
2310.00	462000	Mid	NR Band n30	10	23.5	22.88	B	0.11	0	Right	Cheek	DFT-S-OFDM	QPSK	25	14	0997M	1:1	0.034	1.153	0.039	
2310.00	462000	Mid	NR Band n30	10	23.5	23.35	B	0.08	0	Right	Tilt	DFT-S-OFDM	QPSK	1	1	0997M	1:1	0.021	1.035	0.022	
2310.00	462000	Mid	NR Band n30	10	23.5	22.88	B	0.00	0	Right	Tilt	DFT-S-OFDM	QPSK	25	14	0997M	1:1	0.024	1.153	0.028	
2310.00	462000	Mid	NR Band n30	10	23.5	23.35	B	-0.20	0	Left	Cheek	DFT-S-OFDM	QPSK	1	1	0997M	1:1	0.066	1.035	0.068	
2310.00	462000	Mid	NR Band n30	10	23.5	22.88	B	-0.16	0	Left	Cheek	DFT-S-OFDM	QPSK	25	14	0997M	1:1	0.064	1.153	0.074	
2310.00	462000	Mid	NR Band n30	10	22.0	21.78	B	0.15	1.5	Left	Cheek	CP-OFDM	QPSK	1	1	0997M	1:1	0.043	1.052	0.045	
2310.00	462000	Mid	NR Band n30	10	23.5	23.35	B	0.00	0	Left	Tilt	DFT-S-OFDM	QPSK	1	1	0997M	1:1	0.028	1.035	0.029	
2310.00	462000	Mid	NR Band n30	10	23.5	22.88	B	0.00	0	Left	Tilt	DFT-S-OFDM	QPSK	25	14	0997M	1:1	0.029	1.153	0.033	
2310.00	462000	Mid	NR Band n30	10	19.0	18.28	F	0.14	0	Right	Cheek	DFT-S-OFDM	QPSK	1	1	1035M	1:1	0.499	1.180	0.589	
2310.00	462000	Mid	NR Band n30	10	19.0	18.33	F	0.13	0	Right	Cheek	DFT-S-OFDM	QPSK	25	0	1035M	1:1	0.494	1.167	0.576	
2310.00	462000	Mid	NR Band n30	10	19.0	18.28	F	0.10	0	Right	Tilt	DFT-S-OFDM	QPSK	1	1	1035M	1:1	0.616	1.180	0.727	
2310.00	462000	Mid	NR Band n30	10	19.0	18.33	F	0.04	0	Right	Tilt	DFT-S-OFDM	QPSK	25	0	1035M	1:1	0.611	1.167	0.713	
2310.00	462000	Mid	NR Band n30	10	19.0	18.28	F	0.00	0	Left	Cheek	DFT-S-OFDM	QPSK	1	1	1035M	1:1	0.654	1.180	0.772	
2310.00	462000	Mid	NR Band n30	10	19.0	18.33	F	0.01	0	Left	Cheek	DFT-S-OFDM	QPSK	25	0	1035M	1:1	0.669	1.167	0.781	
2310.00	462000	Mid	NR Band n30	10	19.0	18.28	F	0.02	0	Left	Tilt	DFT-S-OFDM	QPSK	1	1	1035M	1:1	0.771	1.180	0.910	
2310.00	462000	Mid	NR Band n30	10	19.0	18.33	F	0.03	0	Left	Tilt	DFT-S-OFDM	QPSK	25	0	1035M	1:1	0.782	1.167	0.913	
2310.00	462000	Mid	NR Band n30	10	19.0	18.27	F	0.06	0	Left	Tilt	DFT-S-OFDM	QPSK	50	0	1035M	1:1	0.808	1.183	0.956	A23
2310.00	462000	Mid	NR Band n30	10	19.0	18.32	F	0.04	0	Left	Tilt	CP-OFDM	QPSK	1	1	1035M	1:1	0.787	1.169	0.920	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT										Head 1.6 W/kg (mW/g) averaged over 1 gram											
Spatial Peak																					
Uncontrolled Exposure/General Population																					

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Document S/N: 1M2109080099-01.A3L (Rev2)	Test Dates: 09/12/21 - 11/08/21	DUT Type: Portable Handset		Page 124 of 183

Table 11-24
NR Band n7 Head SAR

MEASUREMENT RESULTS																				
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	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)		
2535.00	507000	Mid	NR Band n7	40	22.5	22.33	0.01	0	Right	Cheek	DFT-S-OFDM	QPSK	1	214	0294M	1:1	0.060	1.040	0.062	
2535.00	507000	Mid	NR Band n7	40	22.5	22.36	0.12	0	Right	Cheek	DFT-S-OFDM	QPSK	108	54	0294M	1:1	0.069	1.033	0.071	
2535.00	507000	Mid	NR Band n7	40	22.5	22.33	0.19	0	Right	Tilt	DFT-S-OFDM	QPSK	1	214	0294M	1:1	0.042	1.040	0.044	
2535.00	507000	Mid	NR Band n7	40	22.5	22.36	-0.01	0	Right	Tilt	DFT-S-OFDM	QPSK	108	54	0294M	1:1	0.059	1.033	0.061	
2535.00	507000	Mid	NR Band n7	40	22.5	22.33	0.04	0	Left	Cheek	DFT-S-OFDM	QPSK	1	214	0294M	1:1	0.078	1.040	0.081	
2535.00	507000	Mid	NR Band n7	40	22.5	22.36	0.04	0	Left	Cheek	DFT-S-OFDM	QPSK	108	54	0294M	1:1	0.112	1.033	0.116	A24
2535.00	507000	Mid	NR Band n7	40	22.5	21.73	0.12	0	Left	Cheek	CP-OFDM	QPSK	1	1	0294M	1:1	0.072	1.194	0.086	
2535.00	507000	Mid	NR Band n7	40	22.5	22.33	0.13	0	Left	Tilt	DFT-S-OFDM	QPSK	1	214	0294M	1:1	0.072	1.040	0.075	
2535.00	507000	Mid	NR Band n7	40	22.5	22.36	0.05	0	Left	Tilt	DFT-S-OFDM	QPSK	108	54	0294M	1:1	0.091	1.033	0.094	
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 n41 Head SAR

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Bandw/dth [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)	Scaling Factor	Reported SAR (1g)	Plot #	
MHz	Ch.																(W/kg)		(W/kg)		
2592.99	518598	Mid	NR Band n41	100	19.0	18.45	F	0.04	0	Right	Cheek	DFT-S-OFDM	QPSK	1	1	0919M	1:1	0.421	1.135	0.478	
2592.99	518598	Mid	NR Band n41	100	19.0	18.37	F	0.03	0	Right	Cheek	DFT-S-OFDM	QPSK	135	0	0919M	1:1	0.385	1.156	0.445	
2592.99	518598	Mid	NR Band n41	100	19.0	18.45	F	-0.02	0	Right	Tilt	DFT-S-OFDM	QPSK	1	1	0919M	1:1	0.660	1.135	0.749	
2592.99	518598	Mid	NR Band n41	100	19.0	18.37	F	0.09	0	Right	Tilt	DFT-S-OFDM	QPSK	135	0	0919M	1:1	0.619	1.156	0.716	
2592.99	518598	Mid	NR Band n41	100	19.0	18.29	F	0.00	0	Right	Tilt	DFT-S-OFDM	QPSK	270	0	0919M	1:1	0.545	1.178	0.642	
2592.99	518598	Mid	NR Band n41	100	19.0	18.45	F	0.04	0	Left	Cheek	DFT-S-OFDM	QPSK	1	1	0919M	1:1	0.866	1.135	0.983	
2592.99	518598	Mid	NR Band n41	100	19.0	18.37	F	0.10	0	Left	Cheek	DFT-S-OFDM	QPSK	135	0	0919M	1:1	0.704	1.156	0.814	
2592.99	518598	Mid	NR Band n41	100	19.0	18.29	F	0.00	0	Left	Cheek	DFT-S-OFDM	QPSK	270	0	0919M	1:1	0.659	1.178	0.776	
2592.99	518598	Mid	NR Band n41	100	19.0	18.45	F	0.01	0	Left	Tilt	DFT-S-OFDM	QPSK	1	1	0919M	1:1	0.904	1.135	1.026	A25
2592.99	518598	Mid	NR Band n41	100	19.0	18.37	F	0.02	0	Left	Tilt	DFT-S-OFDM	QPSK	135	0	0919M	1:1	0.856	1.156	0.990	
2592.99	518598	Mid	NR Band n41	100	19.0	18.29	F	0.03	0	Left	Tilt	DFT-S-OFDM	QPSK	270	0	0919M	1:1	0.785	1.178	0.925	
2592.99	518598	Mid	NR Band n41	100	19.0	18.46	F	0.02	0	Left	Tilt	CP-OFDM	QPSK	1	1	0919M	1:1	0.887	1.132	1.004	
2592.99	518598	Mid	NR Band n41	100	17.5	16.50	B	0.12	N/A	Right	Cheek	CWISRS	N/A	N/A	N/A	0919M	1:1	0.037	1.259	0.047	
2592.99	518598	Mid	NR Band n41	100	17.5	16.50	B	-0.13	N/A	Right	Tilt	CWISRS	N/A	N/A	N/A	0919M	1:1	0.021	1.259	0.026	
2592.99	518598	Mid	NR Band n41	100	17.5	16.50	B	0.05	N/A	Left	Cheek	CWISRS	N/A	N/A	N/A	0919M	1:1	0.044	1.259	0.055	
2592.99	518598	Mid	NR Band n41	100	17.5	16.50	B	0.07	N/A	Left	Tilt	CWISRS	N/A	N/A	N/A	0919M	1:1	0.033	1.259	0.042	
2592.99	518598	Mid	NR Band n41	100	16.5	15.38	E	0.01	N/A	Right	Cheek	CWISRS	N/A	N/A	N/A	0919M	1:1	0.327	1.294	0.423	
2592.99	518598	Mid	NR Band n41	100	16.5	15.38	E	0.05	N/A	Right	Tilt	CWISRS	N/A	N/A	N/A	0919M	1:1	0.285	1.294	0.369	
2592.99	518598	Mid	NR Band n41	100	16.5	15.38	E	0.00	N/A	Left	Cheek	CWISRS	N/A	N/A	N/A	0919M	1:1	0.239	1.294	0.309	
2592.99	518598	Mid	NR Band n41	100	16.5	15.38	E	0.02	N/A	Left	Tilt	CWISRS	N/A	N/A	N/A	0919M	1:1	0.224	1.294	0.290	
2592.99	518598	Mid	NR Band n41	100	15.5	14.49	D	0.13	N/A	Right	Cheek	CWISRS	N/A	N/A	N/A	0919M	1:1	0.000	1.262	0.000	
2592.99	518598	Mid	NR Band n41	100	15.5	14.49	D	0.00	N/A	Right	Tilt	CWISRS	N/A	N/A	N/A	0919M	1:1	0.000	1.262	0.000	
2592.99	518598	Mid	NR Band n41	100	15.5	14.49	D	0.16	N/A	Left	Cheek	CWISRS	N/A	N/A	N/A	0919M	1:1	0.000	1.262	0.000	
2592.99	518598	Mid	NR Band n41	100	15.5	14.49	D	0.19	N/A	Left	Tilt	CWISRS	N/A	N/A	N/A	0919M	1:1	0.000	1.262	0.000	
2592.99	518598	Mid	NR Band n41	100	19.0	18.45	F	-0.03	0	Left	Tilt	DFT-S-OFDM	QPSK	1	1	0919M	1:1	0.866	1.135	0.983	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT										Head											
Spatial Peak										1.6 W/kg (mW/g)											
Uncontrolled Exposure/General Population										averaged over 1 gram											

Note: Blue entry represents variability measurement.

FCC ID: A3LSMS901U	 PCTEST Proud to be part of 	SAR EVALUATION REPORT		Approved by: Quality Manager
Document S/N: 1M2109080099-01.A3L (Rev2)	Test Dates: 09/12/21 - 11/08/21	DUT Type: Portable Handset		Page 125 of 183

Table 11-26
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)	Scaling Factor	Reported SAR (1g)	Plot #	
MHz	Ch.																(W/kg)		(W/kg)		
3500.01	633334	Mid	NR Band n77 DoD	100	15.0	14.36	G	0.02	0	Right	Cheek	DFT-S-OFDM	QPSK	1	1	0885M	1:1	0.583	1.159	0.676	A26
3500.01	633334	Mid	NR Band n77 DoD	100	15.0	14.17	G	0.03	0	Right	Cheek	DFT-S-OFDM	QPSK	135	0	0885M	1:1	0.559	1.211	0.677	
3500.01	633334	Mid	NR Band n77 DoD	100	15.0	14.30	G	0.08	0	Right	Cheek	CP-OFDM	QPSK	1	1	0885M	1:1	0.586	1.175	0.689	
3500.01	633334	Mid	NR Band n77 DoD	100	15.0	14.36	G	-0.05	0	Right	Tilt	DFT-S-OFDM	QPSK	1	1	0885M	1:1	0.179	1.159	0.207	
3500.01	633334	Mid	NR Band n77 DoD	100	15.0	14.17	G	0.00	0	Right	Tilt	DFT-S-OFDM	QPSK	135	0	0885M	1:1	0.172	1.211	0.208	
3500.01	633334	Mid	NR Band n77 DoD	100	15.0	14.36	G	0.02	0	Left	Cheek	DFT-S-OFDM	QPSK	1	1	0885M	1:1	0.062	1.159	0.072	
3500.01	633334	Mid	NR Band n77 DoD	100	15.0	14.17	G	0.15	0	Left	Cheek	DFT-S-OFDM	QPSK	135	0	0885M	1:1	0.068	1.211	0.082	
3500.01	633334	Mid	NR Band n77 DoD	100	15.0	14.36	G	0.20	0	Left	Tilt	DFT-S-OFDM	QPSK	1	1	0885M	1:1	0.072	1.159	0.083	
3500.01	633334	Mid	NR Band n77 DoD	100	15.0	14.17	G	0.15	0	Left	Tilt	DFT-S-OFDM	QPSK	135	0	0885M	1:1	0.070	1.211	0.085	
3500.01	633334	Mid	NR Band n77 DoD	100	12.5	11.20	C	-0.12	N/A	Right	Cheek	CWISRS	N/A	N/A	N/A	0885M	1:1	0.011	1.349	0.015	
3500.01	633334	Mid	NR Band n77 DoD	100	12.5	11.20	C	-0.13	N/A	Right	Tilt	CWISRS	N/A	N/A	N/A	0885M	1:1	0.010	1.349	0.013	
3500.01	633334	Mid	NR Band n77 DoD	100	12.5	11.20	C	0.11	N/A	Left	Cheek	CWISRS	N/A	N/A	N/A	0885M	1:1	0.019	1.349	0.026	
3500.01	633334	Mid	NR Band n77 DoD	100	12.5	11.20	C	0.03	N/A	Left	Tilt	CWISRS	N/A	N/A	N/A	0885M	1:1	0.007	1.349	0.009	
3500.01	633334	Mid	NR Band n77 DoD	100	15.0	14.32	H	0.17	N/A	Right	Cheek	CWISRS	N/A	N/A	N/A	0885M	1:1	0.000	1.169	0.000	
3500.01	633334	Mid	NR Band n77 DoD	100	15.0	14.32	H	0.14	N/A	Right	Tilt	CWISRS	N/A	N/A	N/A	0885M	1:1	0.011	1.169	0.013	
3500.01	633334	Mid	NR Band n77 DoD	100	15.0	14.32	H	-0.14	N/A	Left	Cheek	CWISRS	N/A	N/A	N/A	0885M	1:1	0.000	1.169	0.000	
3500.01	633334	Mid	NR Band n77 DoD	100	15.0	14.32	H	-0.16	N/A	Left	Tilt	CWISRS	N/A	N/A	N/A	0885M	1:1	0.000	1.169	0.000	
3500.01	633334	Mid	NR Band n77 DoD	100	12.5	11.13	D	-0.19	N/A	Right	Cheek	CWISRS	N/A	N/A	N/A	0885M	1:1	0.000	1.371	0.000	
3500.01	633334	Mid	NR Band n77 DoD	100	12.5	11.13	D	-0.13	N/A	Right	Tilt	CWISRS	N/A	N/A	N/A	0885M	1:1	0.001	1.371	0.001	
3500.01	633334	Mid	NR Band n77 DoD	100	12.5	11.13	D	0.16	N/A	Left	Cheek	CWISRS	N/A	N/A	N/A	0885M	1:1	0.000	1.371	0.000	
3500.01	633334	Mid	NR Band n77 DoD	100	12.5	11.13	D	-0.12	N/A	Left	Tilt	CWISRS	N/A	N/A	N/A	0885M	1:1	0.000	1.371	0.000	
3750.00	650000	Low	NR Band n77	100	15.0	14.76	G	-0.07	0	Right	Cheek	DFT-S-OFDM	QPSK	1	137	0885M	1:1	0.533	1.057	0.563	A27
3930.00	662000	High	NR Band n77	100	15.0	14.96	G	0.01	0	Right	Cheek	DFT-S-OFDM	QPSK	1	137	0885M	1:1	0.749	1.009	0.756	
3750.00	650000	Low	NR Band n77	100	15.0	14.69	G	-0.01	0	Right	Cheek	DFT-S-OFDM	QPSK	135	0	0885M	1:1	0.528	1.074	0.567	
3930.00	662000	High	NR Band n77	100	15.0	14.90	G	-0.01	0	Right	Cheek	DFT-S-OFDM	QPSK	135	69	0885M	1:1	0.738	1.023	0.755	
3930.00	662000	High	NR Band n77	100	15.0	14.77	G	-0.10	0	Right	Cheek	DFT-S-OFDM	QPSK	270	0	0885M	1:1	0.715	1.054	0.754	
3930.00	662000	High	NR Band n77	100	15.0	14.61	G	-0.03	0	Right	Cheek	CP-OFDM	QPSK	1	1	0885M	1:1	0.658	1.094	0.720	
3930.00	662000	High	NR Band n77	100	15.0	14.96	G	-0.01	0	Right	Tilt	DFT-S-OFDM	QPSK	1	137	0885M	1:1	0.283	1.009	0.286	
3930.00	662000	High	NR Band n77	100	15.0	14.90	G	0.01	0	Right	Tilt	DFT-S-OFDM	QPSK	135	69	0885M	1:1	0.273	1.023	0.279	
3930.00	662000	High	NR Band n77	100	15.0	14.96	G	-0.03	0	Left	Cheek	DFT-S-OFDM	QPSK	1	137	0885M	1:1	0.108	1.009	0.109	
3930.00	662000	High	NR Band n77	100	15.0	14.90	G	0.19	0	Left	Cheek	DFT-S-OFDM	QPSK	135	69	0885M	1:1	0.099	1.023	0.101	
3930.00	662000	High	NR Band n77	100	15.0	14.96	G	0.15	0	Left	Tilt	DFT-S-OFDM	QPSK	1	137	0885M	1:1	0.107	1.009	0.108	
3930.00	662000	High	NR Band n77	100	15.0	14.90	G	0.07	0	Left	Tilt	DFT-S-OFDM	QPSK	135	69	0885M	1:1	0.069	1.023	0.071	
3930.00	662000	High	NR Band n77	100	12.5	11.75	C	0.15	N/A	Right	Cheek	CWISRS	N/A	N/A	N/A	0885M	1:1	0.005	1.189	0.006	
3930.00	662000	High	NR Band n77	100	12.5	11.75	C	0.19	N/A	Right	Tilt	CWISRS	N/A	N/A	N/A	0885M	1:1	0.006	1.189	0.007	
3930.00	662000	High	NR Band n77	100	12.5	11.75	C	0.06	N/A	Left	Cheek	CWISRS	N/A	N/A	N/A	0885M	1:1	0.036	1.189	0.043	
3930.00	662000	High	NR Band n77	100	12.5	11.75	C	0.19	N/A	Left	Tilt	CWISRS	N/A	N/A	N/A	0885M	1:1	0.008	1.189	0.010	
3930.00	662000	High	NR Band n77	100	15.0	14.91	H	0.03	N/A	Right	Cheek	CWISRS	N/A	N/A	N/A	0885M	1:1	0.002	1.021	0.002	
3930.00	662000	High	NR Band n77	100	15.0	14.91	H	0.14	N/A	Right	Tilt	CWISRS	N/A	N/A	N/A	0885M	1:1	0.002	1.021	0.002	
3930.00	662000	High	NR Band n77	100	15.0	14.91	H	0.14	N/A	Left	Cheek	CWISRS	N/A	N/A	N/A	0885M	1:1	0.000	1.021	0.000	
3930.00	662000	High	NR Band n77	100	15.0	14.91	H	0.19	N/A	Left	Tilt	CWISRS	N/A	N/A	N/A	0885M	1:1	0.000	1.021	0.000	
3930.00	662000	High	NR Band n77	100	12.5	11.92	D	0.00	N/A	Right	Cheek	CWISRS	N/A	N/A	N/A	0885M	1:1	0.000	1.143	0.000	
3930.00	662000	High	NR Band n77	100	12.5	11.92	D	0.12	N/A	Right	Tilt	CWISRS	N/A	N/A	N/A	0885M	1:1	0.002	1.143	0.002	
3930.00	662000	High	NR Band n77	100	12.5	11.92	D	-0.13	N/A	Left	Cheek	CWISRS	N/A	N/A	N/A	0885M	1:1	0.000	1.143	0.000	
3930.00	662000	High	NR Band n77	100	12.5	11.92	D	-0.08	N/A	Left	Tilt	CWISRS	N/A	N/A	N/A	0885M	1:1	0.000	1.143	0.000	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population										Head 1.6 W/kg (mW/g) averaged over 1 gram											

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**Table 11-27
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)	
2437	6	802.11b	DSSS	22	15.0	14.84	0.19	Right	Cheek	2	0878M	1	98.9	0.051	0.030	1.038	1.011	0.031	
2437	6	802.11b	DSSS	22	15.0	14.84	-0.17	Right	Tilt	2	0878M	1	98.9	0.044	-	1.038	1.011	-	
2437	6	802.11b	DSSS	22	15.0	14.84	-0.15	Left	Cheek	2	0878M	1	98.9	0.028	-	1.038	1.011	-	
2437	6	802.11b	DSSS	22	15.0	14.84	0.19	Left	Tilt	2	0878M	1	98.9	0.028	-	1.038	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 11-28
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)			
2412	1	802.11n	OFDM	20	15.0	14.61	15.0	14.73	0.07	Right	Cheek	MIMO	0878M	13	91.3	0.260	0.175	1.094	1.095	0.210	A28
2412	1	802.11n	OFDM	20	15.0	14.61	15.0	14.73	0.06	Right	Tilt	MIMO	0878M	13	91.3	0.116	-	1.094	1.095	-	
2412	1	802.11n	OFDM	20	15.0	14.61	15.0	14.73	-0.04	Left	Cheek	MIMO	0878M	13	91.3	0.136	-	1.094	1.095	-	
2412	1	802.11n	OFDM	20	15.0	14.61	15.0	14.73	-0.07	Left	Tilt	MIMO	0878M	13	91.3	0.078	-	1.094	1.095	-	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT																Head					
Spatial Peak																1.6 W/kg (mW/g)					
Uncontrolled Exposure/General Population																averaged over 1 gram					

Note: To achieve the 18.0 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 15.0 dBm.

**Table 11-29
NII SISO Head 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)	
5290	58	802.11ac	OFDM	80	12.0	11.99	-0.08	Right	Cheek	1	1342M	29.3	92.4	0.298	0.259	1.002	1.082	0.281	
5290	58	802.11ac	OFDM	80	12.0	11.99	-0.19	Right	Tilt	1	1342M	29.3	92.4	0.031	-	1.002	1.082	-	
5290	58	802.11ac	OFDM	80	12.0	11.99	0.17	Left	Cheek	1	1342M	29.3	92.4	0.172	-	1.002	1.082	-	
5290	58	802.11ac	OFDM	80	12.0	11.99	-0.13	Left	Tilt	1	1342M	29.3	92.4	0.024	0.014	1.002	1.082	0.015	
5610	122	802.11ac	OFDM	80	12.0	11.95	-0.14	Right	Cheek	1	1342M	29.3	92.4	0.246	0.206	1.012	1.082	0.226	
5610	122	802.11ac	OFDM	80	12.0	11.95	-0.17	Right	Tilt	1	1342M	29.3	92.4	0.016	-	1.012	1.082	-	
5610	122	802.11ac	OFDM	80	12.0	11.95	0.06	Left	Cheek	1	1342M	29.3	92.4	0.096	-	1.012	1.082	-	
5610	122	802.11ac	OFDM	80	12.0	11.95	-0.12	Left	Tilt	1	1342M	29.3	92.4	0.005	0.005	1.012	1.082	0.005	
5775	155	802.11ac	OFDM	80	12.0	11.65	0.00	Right	Cheek	1	1342M	29.3	92.4	0.176	0.104	1.084	1.082	0.122	
5775	155	802.11ac	OFDM	80	12.0	11.65	0.17	Right	Tilt	1	1342M	29.3	92.4	0.002	-	1.084	1.082	-	
5775	155	802.11ac	OFDM	80	12.0	11.65	-0.13	Left	Cheek	1	1342M	29.3	92.4	0.034	-	1.084	1.082	-	
5775	155	802.11ac	OFDM	80	12.0	11.65	-0.15	Left	Tilt	1	1342M	29.3	92.4	0.000	0.000	1.084	1.082	0.000	
5855	171	802.11ac	OFDM	80	12.0	11.52	-0.18	Right	Cheek	1	1342M	29.3	92.4	0.275	0.225	1.117	1.082	0.272	
5855	171	802.11ac	OFDM	80	12.0	11.52	0.15	Right	Tilt	1	1342M	29.3	92.4	0.025	-	1.117	1.082	-	
5855	171	802.11ac	OFDM	80	12.0	11.52	-0.12	Left	Cheek	1	1342M	29.3	92.4	0.127	-	1.117	1.082	-	
5855	171	802.11ac	OFDM	80	12.0	11.52	0.17	Left	Tilt	1	1342M	29.3	92.4	0.095	0.000	1.117	1.082	0.000	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population									Head 1.6 W/kg (mW/g) averaged over 1 gram										

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Table 11-30
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	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.															W/kg	(W/kg)	(Power)	(Duty Cycle)	(W/kg)	
5290	58	802.11ac	OFDM	80	12.0	11.99	12.0	11.99	0.05	Right	Cheek	MIMO	1342M	58.5	91.7	0.470	0.277	1.002	1.091	0.303	A29
5290	58	802.11ac	OFDM	80	12.0	11.99	12.0	11.99	0.14	Right	Tilt	MIMO	1342M	58.5	91.7	0.033	-	1.002	1.091	-	
5290	58	802.11ac	OFDM	80	12.0	11.99	12.0	11.99	0.00	Left	Cheek	MIMO	1342M	58.5	91.7	0.185	-	1.002	1.091	-	
5290	58	802.11ac	OFDM	80	12.0	11.99	12.0	11.99	0.12	Left	Tilt	MIMO	1342M	58.5	91.7	0.027	0.009	1.002	1.091	0.010	
5690	138	802.11ac	OFDM	80	12.0	11.74	12.0	11.62	-0.07	Right	Cheek	MIMO	1342M	58.5	91.7	0.358	0.238	1.091	1.091	0.283	
5690	138	802.11ac	OFDM	80	12.0	11.74	12.0	11.62	0.15	Right	Tilt	MIMO	1342M	58.5	91.7	0.011	-	1.091	1.091	-	
5690	138	802.11ac	OFDM	80	12.0	11.74	12.0	11.62	0.00	Left	Cheek	MIMO	1342M	58.5	91.7	0.122	-	1.091	1.091	-	
5690	138	802.11ac	OFDM	80	12.0	11.74	12.0	11.62	-0.13	Left	Tilt	MIMO	1342M	58.5	91.7	0.011	0.004	1.091	1.091	0.005	
5775	155	802.11ac	OFDM	80	12.0	11.65	12.0	11.91	0.05	Right	Cheek	MIMO	1342M	58.5	91.7	0.301	0.202	1.084	1.091	0.239	
5775	155	802.11ac	OFDM	80	12.0	11.65	12.0	11.91	-0.13	Right	Tilt	MIMO	1342M	58.5	91.7	0.019	-	1.084	1.091	-	
5775	155	802.11ac	OFDM	80	12.0	11.65	12.0	11.91	-0.17	Left	Cheek	MIMO	1342M	58.5	91.7	0.092	-	1.084	1.091	-	
5775	155	802.11ac	OFDM	80	12.0	11.65	12.0	11.91	0.19	Left	Tilt	MIMO	1342M	58.5	91.7	0.006	0.002	1.084	1.091	0.002	
5855	171	802.11ac	OFDM	80	12.0	11.52	12.0	11.84	0.15	Right	Cheek	MIMO	1342M	58.5	91.7	0.160	0.129	1.117	1.091	0.157	
5855	171	802.11ac	OFDM	80	12.0	11.52	12.0	11.84	0.17	Right	Tilt	MIMO	1342M	58.5	91.7	0.096	-	1.117	1.091	-	
5855	171	802.11ac	OFDM	80	12.0	11.52	12.0	11.84	0.00	Left	Cheek	MIMO	1342M	58.5	91.7	0.116	-	1.117	1.091	-	
5855	171	802.11ac	OFDM	80	12.0	11.52	12.0	11.84	0.20	Left	Tilt	MIMO	1342M	58.5	91.7	0.017	0.009	1.117	1.091	0.011	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT																					
Spatial Peak										Head											
Uncontrolled Exposure/General Population										1.6 W/kg (mW/g)											
										averaged over 1 gram											

Note: To achieve the 15.0 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 12.0 dBm.

Table 11-31
DSS Head SAR

MEASUREMENT RESULTS																
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Side	Test Position	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)	
2441.00	39	Bluetooth	FHSS	13.0	12.53	0.18	Right	Cheek	1102M	1	77.60	0.156	1.114	1.289	0.224	A30
2441.00	39	Bluetooth	FHSS	13.0	12.53	-0.11	Right	Tilt	1102M	1	77.60	0.031	1.114	1.289	0.045	
2441.00	39	Bluetooth	FHSS	13.0	12.53	0.18	Left	Cheek	1102M	1	77.60	0.130	1.114	1.289	0.187	
2441.00	39	Bluetooth	FHSS	13.0	12.53	0.07	Left	Tilt	1102M	1	77.60	0.015	1.114	1.289	0.022	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT								Head								
Spatial Peak								1.6 W/kg (mW/g)								
Uncontrolled Exposure/General Population								averaged over 1 gram								

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11.2 Standalone Body-Worn SAR Data

Table 11-32
GSM/UMTS Body-Worn SAR Data

MEASUREMENT RESULTS															
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Tune State	Power Drift [dB]	Spacing	Device Serial Number	Duty Cycle	Side	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.											(W/kg)		(W/kg)	
836.60	190	GSM 850	GSM	33.0	31.95	N/A	0.01	15 mm	0534M	1:8.3	back	0.148	1.274	0.189	A31
1909.80	810	GSM 1900	GSM	30.0	28.93	N/A	-0.01	15 mm	0300M	1:8.3	back	0.223	1.279	0.285	A33
836.60	4183	UMTS 850	RMC	25.5	24.41	68	0.09	15 mm	0534M	1:1	back	0.280	1.285	0.360	A35
1712.40	1312	UMTS 1750	RMC	24.0	23.29	14	0.00	15 mm	0553M	1:1	back	0.777	1.178	0.915	
1732.40	1412	UMTS 1750	RMC	24.0	23.11	14	0.09	15 mm	0553M	1:1	back	0.866	1.227	1.063	A37
1752.60	1513	UMTS 1750	RMC	24.0	22.95	14	0.03	15 mm	0553M	1:1	back	0.852	1.274	1.085	
1852.40	9262	UMTS 1900	RMC	24.7	23.60	0	0.00	15 mm	0586M	1:1	back	0.795	1.288	1.024	A39
1880.00	9400	UMTS 1900	RMC	24.7	23.49	0	-0.07	15 mm	0586M	1:1	back	0.640	1.321	0.845	
1907.60	9538	UMTS 1900	RMC	24.7	23.79	0	-0.16	15 mm	0586M	1:1	back	0.632	1.233	0.779	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT															
Spatial Peak								Body							
Uncontrolled Exposure/General Population								1.6 W/kg (mW/g)							
								averaged over 1 gram							

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Table 11-33
LTE Body-Worn SAR

MEASUREMENT RESULTS																							
1 CC Uplink 2 CC Uplink	Component Carrier	FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Tune State	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR [1g]	Scaling Factor	Reported SAR [1g]	Plot #	
		MHz	Ch.																(W/kg)		(W/kg)		
1 CC Uplink	N/A	680.50	133297	Mid	LTE Band 71	20	25.5	25.33	118	-0.03	0	A	0540M	QPSK	1	50	15 mm	back	1:1	0.275	1.040	0.286	A41
1 CC Uplink	N/A	680.50	133297	Mid	LTE Band 71	20	24.5	24.16	118	0.02	1	A	0540M	QPSK	50	25	15 mm	back	1:1	0.215	1.081	0.232	
1 CC Uplink	N/A	707.50	23095	Mid	LTE Band 12	10	25.5	25.50	118	0.00	0	A	0540M	QPSK	1	49	15 mm	back	1:1	0.322	1.000	0.322	A43
1 CC Uplink	N/A	707.50	23095	Mid	LTE Band 12	10	24.5	24.23	118	0.03	1	A	0540M	QPSK	25	12	15 mm	back	1:1	0.258	1.064	0.275	
1 CC Uplink	N/A	782.00	23230	Mid	LTE Band 13	10	25.5	25.19	79	0.01	0	A	0540M	QPSK	1	0	15 mm	back	1:1	0.349	1.074	0.375	A45
1 CC Uplink	N/A	782.00	23230	Mid	LTE Band 13	10	24.5	24.20	79	0.00	1	A	0540M	QPSK	25	12	15 mm	back	1:1	0.283	1.072	0.303	
1 CC Uplink	N/A	793.00	23330	Mid	LTE Band 14	10	25.5	25.35	54	0.03	0	A	0540M	QPSK	1	25	15 mm	back	1:1	0.351	1.035	0.363	A47
1 CC Uplink	N/A	793.00	23330	Mid	LTE Band 14	10	24.5	24.36	54	0.04	1	A	0540M	QPSK	25	12	15 mm	back	1:1	0.280	1.033	0.289	
1 CC Uplink	N/A	831.50	26865	Mid	LTE Band 26 (Cell)	15	25.5	25.50	14	-0.03	0	A	0540M	QPSK	1	0	15 mm	back	1:1	0.295	1.000	0.295	A49
1 CC Uplink	N/A	831.50	26865	Mid	LTE Band 26 (Cell)	15	24.5	24.27	14	0.03	1	A	0540M	QPSK	36	18	15 mm	back	1:1	0.228	1.054	0.240	
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	25.5	24.50	1	0.13	0	A	0277M	QPSK	1	0	15 mm	back	1:1	0.273	1.259	0.344	A51
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	24.5	23.38	1	0.05	1	A	0277M	QPSK	25	25	15 mm	back	1:1	0.200	1.294	0.259	
2 CC Uplink	PCC	836.50	20525	Mid	LTE Band 5 (Cell)	10	25.5	24.45	1	-0.02	0	A	0277M	QPSK	1	0	15 mm	back	1:1	0.269	1.274	0.343	
	SCC	829.30	20453			5									1	24							
1 CC Uplink	N/A	1720.00	132072	Low	LTE Band 66 (AWS)	20	24.5	23.61	18	0.20	0	A	0427M	QPSK	1	50	15 mm	back	1:1	0.726	1.227	0.891	
1 CC Uplink	N/A	1745.00	132322	Mid	LTE Band 66 (AWS)	20	24.5	23.87	18	0.07	0	A	0427M	QPSK	1	50	15 mm	back	1:1	0.898	1.156	1.038	
1 CC Uplink	N/A	1770.00	132572	High	LTE Band 66 (AWS)	20	24.5	23.93	18	-0.03	0	A	0427M	QPSK	1	0	15 mm	back	1:1	1.010	1.140	1.151	A53
1 CC Uplink	N/A	1720.00	132072	Low	LTE Band 66 (AWS)	20	23.5	22.68	18	0.00	1	A	0427M	QPSK	50	25	15 mm	back	1:1	0.594	1.208	0.718	
1 CC Uplink	N/A	1745.00	132322	Mid	LTE Band 66 (AWS)	20	23.5	22.85	18	0.03	1	A	0427M	QPSK	50	25	15 mm	back	1:1	0.707	1.161	0.821	
1 CC Uplink	N/A	1770.00	132572	High	LTE Band 66 (AWS)	20	23.5	22.95	18	0.02	1	A	0427M	QPSK	50	50	15 mm	back	1:1	0.748	1.135	0.849	
1 CC Uplink	N/A	1770.00	132572	High	LTE Band 66 (AWS)	20	23.5	22.92	18	0.01	1	A	0427M	QPSK	100	0	15 mm	back	1:1	0.766	1.143	0.876	
1 CC Uplink	N/A	1775.00	132622	High	LTE Band 66 (AWS)	10	24.5	23.74	18	0.06	0	A	0427M	QPSK	1	0	15 mm	back	1:1	0.906	1.191	1.079	
2 CC Uplink CA_66C	PCC	1770.00	132572	High	LTE Band 66 (AWS)	20	24.5	23.79	18	0.10	0	A	0427M	QPSK	1	0	15 mm	back	1:1	0.972	1.178	1.145	
	SCC	1750.20	132374											1	99								
2 CC Uplink CA_66B	PCC	1775.00	132622	High	LTE Band 66 (AWS)	10	24.5	24.00	18	0.10	0	A	0427M	QPSK	1	0	15 mm	back	1:1	1.000	1.122	1.122	
	SCC	1765.10	132523											1	49								
1 CC Uplink	N/A	1770.00	132572	High	LTE Band 66 (AWS)	20	24.5	23.93	18	0.08	0	A	0427M	QPSK	1	0	15 mm	back	1:1	0.994	1.140	1.133	
1 CC Uplink	N/A	1860.00	26140	Low	LTE Band 25 (PCS)	20	24.7	23.77	0	0.07	0	A	0586M	QPSK	1	0	15 mm	back	1:1	0.813	1.239	1.007	A55
1 CC Uplink	N/A	1882.50	26365	Mid	LTE Band 25 (PCS)	20	24.7	23.55	0	-0.05	0	A	0586M	QPSK	1	0	15 mm	back	1:1	0.622	1.303	0.810	
1 CC Uplink	N/A	1905.00	26590	High	LTE Band 25 (PCS)	20	24.7	23.56	0	0.07	0	A	0586M	QPSK	1	0	15 mm	back	1:1	0.573	1.300	0.745	
1 CC Uplink	N/A	1860.00	26140	Low	LTE Band 25 (PCS)	20	23.7	22.77	0	-0.03	1	A	0586M	QPSK	50	0	15 mm	back	1:1	0.602	1.239	0.746	
1 CC Uplink	N/A	1882.50	26365	Mid	LTE Band 25 (PCS)	20	23.7	22.56	0	0.00	1	A	0586M	QPSK	50	25	15 mm	back	1:1	0.478	1.300	0.621	
1 CC Uplink	N/A	1905.00	26590	High	LTE Band 25 (PCS)	20	23.7	22.80	0	-0.04	1	A	0586M	QPSK	50	0	15 mm	back	1:1	0.441	1.288	0.568	
1 CC Uplink	N/A	1860.00	26140	Low	LTE Band 25 (PCS)	20	23.7	22.61	0	-0.05	1	A	0586M	QPSK	100	0	15 mm	back	1:1	0.565	1.285	0.726	
1 CC Uplink	N/A	2310.00	27710	Mid	LTE Band 30	10	23.5	22.44	N/A	-0.13	0	A	0577M	QPSK	1	25	15 mm	back	1:1	0.292	1.276	0.373	A57
1 CC Uplink	N/A	2310.00	27710	Mid	LTE Band 30	10	22.5	21.35	N/A	-0.19	1	A	0577M	QPSK	25	12	15 mm	back	1:1	0.226	1.303	0.294	
1 CC Uplink	N/A	2310.00	27710	Mid	LTE Band 30	10	23.5	22.67	N/A	0.01	0	B	0997M	QPSK	1	25	15 mm	back	1:1	0.124	1.211	0.150	
1 CC Uplink	N/A	2310.00	27710	Mid	LTE Band 30	10	22.5	21.58	N/A	-0.03	1	B	0997M	QPSK	25	12	15 mm	back	1:1	0.097	1.236	0.120	
1 CC Uplink	N/A	2560.00	21350	High	LTE Band 7	20	24.0	23.02	N/A	-0.10	0	B	0570M	QPSK	1	99	15 mm	back	1:1	0.216	1.253	0.271	A59
1 CC Uplink	N/A	2560.00	21350	High	LTE Band 7	20	23.0	21.85	N/A	-0.10	1	B	0570M	QPSK	50	50	15 mm	back	1:1	0.171	1.303	0.223	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT													Body Spatial Peak 1.6 W/kg (mW/g) Uncontrolled Exposure/General Population averaged over 1 gram										

Note: Blue entry represents variability measurement.

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Table 11-34
LTE Body-Worn 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)	Scaling Factor	Reported SAR (1g)	Plot #	
		MHz	Ch.														(W/kg)		(W/kg)		
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	25.0	24.06	0.05	0	0421M	QPSK	1	50	15 mm	back	1:1.58	0.258	1.242	0.320	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	25.0	23.68	0.05	0	0421M	QPSK	1	99	15 mm	back	1:1.58	0.252	1.355	0.341	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	24.0	23.01	-0.06	1	0421M	QPSK	50	25	15 mm	back	1:1.58	0.202	1.256	0.254	
1 CC Uplink - Power Class 2	N/A	2593.00	40620	Mid	LTE Band 41	20	26.7	25.65	-0.05	0	0421M	QPSK	1	50	15 mm	back	1:2.31	0.279	1.274	0.355	A61
1 CC Uplink - Power Class 2	N/A	2593.00	40620	Mid	LTE Band 41	20	26.7	25.24	-0.01	0	0421M	QPSK	1	99	15 mm	back	1:2.31	0.255	1.400	0.357	
2 CC Uplink - Power Class 3	PCC	2593.00	40620	Mid	LTE Band 41	20	25.0	23.78	0.06	0	0421M	QPSK	1	99	15 mm	back	1:1.58	0.265	1.324	0.351	
	SCC	2612.80	40818										1	0							
2 CC Uplink - Power Class 2	PCC	2593.00	40620	Mid	LTE Band 41	20	26.7	25.54	0.03	0	0421M	QPSK	1	99	15 mm	back	1:2.31	0.264	1.306	0.345	
	SCC	2612.80	40818										1	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 11-35
LTE Body-Worn SAR

MEASUREMENT RESULTS																						
1 CC Uplink 2 CC Uplink	Component Carrier	FREQUENCY		Mode	Bandwidth [MHz]	Maxim um Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR	Plot #	
		MHz	Ch.															(W/kg)		(W/kg)		
1 CC Uplink	N/A	3646.70	56207	Mid-High	LTE Band 48	20	20.5	19.21	-0.03	0	G	0950M	QPSK	1	50	15 mm	back	1:1.58	0.096	1.346	0.129	A63
1 CC Uplink	N/A	3646.70	56207	Mid-High	LTE Band 48	20	20.5	19.02	-0.15	0	G	0950M	QPSK	1	99	15 mm	back	1:1.58	0.096	1.406	0.135	
1 CC Uplink	N/A	3646.70	56207	Mid-High	LTE Band 48	20	20.5	19.27	0.15	0	G	0950M	QPSK	50	25	15 mm	back	1:1.58	0.093	1.327	0.123	
2 CC Uplink	PCC	3646.70	56207	Mid-High	LTE Band 48	20	20.5	19.00	-0.12	0	G	0950M	QPSK	1	99	15 mm	back	1:1.58	0.092	1.413	0.130	
	SCC	3666.50	56405																			
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population												Body 1.6 W/kg (mW/g) averaged over 1 gram										

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Table 11-36
NR Body-Worn SAR

MEASUREMENT RESULTS																						
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Antenna Config	Power Drift [dB]	MPR [dB]	Tune State	Serial Number	Waveform	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)		Reported SAR (1g) (W/kg)	Plot #	
MHz	Ch.																	(W/kg)	Scaling Factor			
680.50	136100	Mid	NR Band n71	20	25.5	24.23	A	-0.01	0	0	0194M	DFT-S-OFDM	QPSK	1	53	15 mm	back	1:1	0.267	1.340	0.385	A65
680.50	136100	Mid	NR Band n71	20	25.5	24.40	A	0.06	0	0	0194M	DFT-S-OFDM	QPSK	50	28	15 mm	back	1:1	0.313	1.288	0.403	
680.50	136100	Mid	NR Band n71	20	24.0	22.89	A	0.02	1.5	0	0194M	CP-OFDM	QPSK	1	1	15 mm	back	1:1	0.178	1.291	0.230	
707.50	141500	Mid	NR Band n12	15	25.5	24.16	A	-0.02	0	0	0194M	DFT-S-OFDM	QPSK	1	40	15 mm	back	1:1	0.326	1.361	0.444	A67
707.50	141500	Mid	NR Band n12	15	25.5	24.37	A	0.03	0	0	0194M	DFT-S-OFDM	QPSK	36	22	15 mm	back	1:1	0.331	1.297	0.429	
707.50	141500	Mid	NR Band n12	15	24.0	22.65	A	-0.01	1.5	0	0194M	CP-OFDM	QPSK	1	1	15 mm	back	1:1	0.194	1.365	0.265	
836.50	167300	Mid	NR Band n5 (Cell)	20	25.5	24.08	A	-0.03	0	39	0194M	DFT-S-OFDM	QPSK	1	1	15 mm	back	1:1	0.322	1.387	0.447	A69
836.50	167300	Mid	NR Band n5 (Cell)	20	25.5	24.13	A	0.02	0	39	0194M	DFT-S-OFDM	QPSK	50	28	15 mm	back	1:1	0.313	1.371	0.429	
836.50	167300	Mid	NR Band n5 (Cell)	20	24.0	22.77	A	0.00	1.5	39	0194M	CP-OFDM	QPSK	1	1	15 mm	back	1:1	0.237	1.327	0.314	
1745.00	349000	Mid	NR Band n66 (AWS)	40	23.3	22.80	A	0.03	0	26	0274M	DFT-S-OFDM	QPSK	1	214	15 mm	back	1:1	0.782	1.122	0.877	A71
1745.00	349000	Mid	NR Band n66 (AWS)	40	23.3	22.94	A	0.12	0	26	0274M	DFT-S-OFDM	QPSK	108	108	15 mm	back	1:1	0.755	1.086	0.820	
1745.00	349000	Mid	NR Band n66 (AWS)	40	23.3	22.79	A	0.12	0	26	0274M	DFT-S-OFDM	QPSK	216	0	15 mm	back	1:1	0.801	1.125	0.901	
1745.00	349000	Mid	NR Band n66 (AWS)	40	23.3	22.84	A	-0.08	0	26	0274M	CP-OFDM	QPSK	1	1	15 mm	back	1:1	0.818	1.164	0.952	A73
1745.00	349000	Mid	NR Band n66 (AWS)	40	21.0	20.22	F	0.00	0	N/A	1004M	DFT-S-OFDM	QPSK	1	214	15 mm	back	1:1	0.182	1.197	0.218	
1745.00	349000	Mid	NR Band n66 (AWS)	40	21.0	20.38	F	0.01	0	N/A	1004M	DFT-S-OFDM	QPSK	108	108	15 mm	back	1:1	0.185	1.153	0.213	
1745.00	349000	Mid	NR Band n66 (AWS)	40	21.0	20.14	F	-0.18	0	N/A	1004M	CP-OFDM	QPSK	1	1	15 mm	back	1:1	0.150	1.219	0.183	A75
1882.50	376500	Mid	NR Band n25 (PCS)	40	24.7	23.76	A	-0.14	0	0	0303M	DFT-S-OFDM	QPSK	1	108	15 mm	back	1:1	0.691	1.242	0.858	
1882.50	376500	Mid	NR Band n25 (PCS)	40	24.7	24.11	A	-0.18	0	0	0303M	DFT-S-OFDM	QPSK	108	54	15 mm	back	1:1	0.680	1.146	0.779	
1882.50	376500	Mid	NR Band n25 (PCS)	40	23.7	23.08	A	-0.01	1	0	0303M	DFT-S-OFDM	QPSK	216	0	15 mm	back	1:1	0.563	1.153	0.649	A77
1882.50	376500	Mid	NR Band n25 (PCS)	40	23.2	22.57	A	-0.12	1.5	0	0303M	CP-OFDM	QPSK	1	1	15 mm	back	1:1	0.554	1.156	0.640	
1882.50	376500	Mid	NR Band n25 (PCS)	40	22.0	21.39	F	0.01	0	N/A	0198M	DFT-S-OFDM	QPSK	1	108	15 mm	back	1:1	0.094	1.151	0.108	
1882.50	376500	Mid	NR Band n25 (PCS)	40	22.0	21.50	F	0.01	0	N/A	0198M	DFT-S-OFDM	QPSK	108	0	15 mm	back	1:1	0.112	1.122	0.126	A79
1882.50	376500	Mid	NR Band n25 (PCS)	40	22.0	21.29	F	0.02	0	N/A	0198M	CP-OFDM	QPSK	1	1	15 mm	back	1:1	0.110	1.178	0.130	
2310.00	462000	Mid	NR Band n30	10	23.5	22.43	A	0.03	0	N/A	0292M	DFT-S-OFDM	QPSK	1	1	15 mm	back	1:1	0.536	1.279	0.686	
2310.00	462000	Mid	NR Band n30	10	23.5	22.55	A	0.00	0	N/A	0292M	DFT-S-OFDM	QPSK	25	14	15 mm	back	1:1	0.579	1.245	0.721	A81
2310.00	462000	Mid	NR Band n30	10	22.0	20.94	A	-0.02	1.5	N/A	0292M	CP-OFDM	QPSK	1	1	15 mm	back	1:1	0.403	1.276	0.514	
2310.00	462000	Mid	NR Band n30	10	23.5	23.35	B	-0.01	0	N/A	0997M	DFT-S-OFDM	QPSK	1	1	15 mm	back	1:1	0.116	1.035	0.120	
2310.00	462000	Mid	NR Band n30	10	23.5	22.88	B	-0.03	0	N/A	0997M	DFT-S-OFDM	QPSK	25	14	15 mm	back	1:1	0.103	1.153	0.119	A83
2310.00	462000	Mid	NR Band n30	10	22.0	21.78	B	0.02	1.5	N/A	0997M	CP-OFDM	QPSK	1	1	15 mm	back	1:1	0.078	1.052	0.082	
2310.00	462000	Mid	NR Band n30	10	22.5	21.91	F	-0.05	0	N/A	1035M	DFT-S-OFDM	QPSK	1	26	15 mm	back	1:1	0.227	1.146	0.260	
2310.00	462000	Mid	NR Band n30	10	22.5	21.96	F	-0.02	0	N/A	1035M	DFT-S-OFDM	QPSK	25	14	15 mm	back	1:1	0.231	1.132	0.261	A85
2310.00	462000	Mid	NR Band n30	10	21.5	21.34	F	-0.03	1	N/A	1035M	CP-OFDM	QPSK	1	1	15 mm	back	1:1	0.205	1.038	0.213	
2535.00	507000	Mid	NR Band n7	40	22.5	22.33	B	-0.08	0	N/A	0294M	DFT-S-OFDM	QPSK	1	214	15 mm	back	1:1	0.382	1.040	0.397	
2535.00	507000	Mid	NR Band n7	40	22.5	22.36	B	-0.13	0	N/A	0294M	DFT-S-OFDM	QPSK	108	54	15 mm	back	1:1	0.351	1.033	0.363	A87
2535.00	507000	Mid	NR Band n7	40	22.5	21.73	B	-0.14	0	N/A	0294M	CP-OFDM	QPSK	1	1	15 mm	back	1:1	0.243	1.194	0.290	
2535.00	507000	Mid	NR Band n7	40	22.5	21.73	B	-0.14	0	N/A	0294M	CP-OFDM	QPSK	1	1	15 mm	back	1:1	0.243	1.194	0.290	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT										Body												
Spatial Peak										1.6 W/kg (mW/g)												
Uncontrolled Exposure/General Population										averaged over 1 gram												

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Table 11-37
NR Body-Worn 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	21.0	20.56	F	0.06	0	0919M	DFT-S-OFDM	QPSK	1	1	15 mm	back	1:1	0.168	1.107	0.186	A79
2592.99	518598	Mid	NR Band n41	100	21.0	20.45	F	-0.03	0	0919M	DFT-S-OFDM	QPSK	135	0	15 mm	back	1:1	0.161	1.135	0.183	
2592.99	518598	Mid	NR Band n41	100	21.0	20.54	F	0.04	0	0919M	CP-OFDM	QPSK	1	1	15 mm	back	1:1	0.155	1.112	0.172	
2592.99	518598	Mid	NR Band n41	100	17.5	16.50	B	-0.03	N/A	0919M	CW/SRS	N/A	N/A	N/A	15 mm	back	1:1	0.065	1.259	0.082	
2592.99	518598	Mid	NR Band n41	100	16.5	15.38	E	0.12	N/A	0919M	CW/SRS	N/A	N/A	N/A	15 mm	back	1:1	0.012	1.294	0.016	
2592.99	518598	Mid	NR Band n41	100	15.5	14.49	D	0.07	N/A	0919M	CW/SRS	N/A	N/A	N/A	15 mm	back	1:1	0.022	1.262	0.028	
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
NR Body-Worn 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)		
3500.01	633334	Mid	NR Band n77 DoD	100	18.0	16.75	G	0.01	0	0885M	DFT-S-OFDM	QPSK	1	1	15 mm	back	1:1	0.071	1.334	0.095	A81
3500.01	633334	Mid	NR Band n77 DoD	100	18.0	16.59	G	0.13	0	0885M	DFT-S-OFDM	QPSK	135	0	15 mm	back	1:1	0.075	1.384	0.104	
3500.01	633334	Mid	NR Band n77 DoD	100	18.0	16.86	G	-0.02	0	0885M	CP-OFDM	QPSK	1	1	15 mm	back	1:1	0.074	1.300	0.096	
3500.01	633334	Mid	NR Band n77 DoD	100	12.5	11.20	C	0.00	N/A	0885M	CW/SRS	N/A	N/A	N/A	15 mm	back	1:1	0.002	1.349	0.003	
3500.01	633334	Mid	NR Band n77 DoD	100	18.0	16.53	H	-0.17	N/A	0885M	CW/SRS	N/A	N/A	N/A	15 mm	back	1:1	0.028	1.403	0.039	
3500.01	633334	Mid	NR Band n77 DoD	100	12.5	11.13	D	-0.19	N/A	0885M	CW/SRS	N/A	N/A	N/A	15 mm	back	1:1	0.033	1.371	0.045	
3930.00	662000	High	NR Band n77	100	18.0	17.70	G	0.08	0	0885M	DFT-S-OFDM	QPSK	1	137	15 mm	back	1:1	0.112	1.072	0.120	A83
3930.00	662000	High	NR Band n77	100	18.0	17.69	G	-0.02	0	0885M	DFT-S-OFDM	QPSK	135	69	15 mm	back	1:1	0.109	1.074	0.117	
3930.00	662000	High	NR Band n77	100	18.0	17.59	G	-0.16	0	0885M	CP-OFDM	QPSK	1	1	15 mm	back	1:1	0.109	1.099	0.120	
3930.00	662000	High	NR Band n77	100	12.5	11.75	C	0.19	N/A	0885M	CW/SRS	N/A	N/A	N/A	15 mm	back	1:1	0.026	1.189	0.031	
3930.00	662000	High	NR Band n77	100	18.0	17.96	H	0.15	N/A	0885M	CW/SRS	N/A	N/A	N/A	15 mm	back	1:1	0.066	1.009	0.067	
3930.00	662000	High	NR Band n77	100	12.5	11.92	D	0.14	N/A	0885M	CW/SRS	N/A	N/A	N/A	15 mm	back	1:1	0.008	1.143	0.009	
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
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)	(Power)	(Duty Cycle)	(W/kg)			
2412	1	802.11b	DSSS	22	19.0	18.92	-0.09	15 mm	2	1133M	1	back	98.9	0.215	0.168	1.019	1.011	0.173			
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 11-40
DTS 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	Scaling Factor	Reported SAR (1g)	Plot #			
MHz	Ch.															W/kg	(W/kg)	(Power)	(Duty Cycle)	(W/kg)				
2412	1	802.11b	DSSS	22	19.0	18.90	19.0	18.92	0.05	15 mm	MIMO	1133M	1	back	99.1	0.393	0.306	1.023	1.009	0.316	A85			
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 22 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 19 dBm.

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Table 11-41
NII 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)	
5290	58	802.11ac	OFDM	80	18.0	17.66	0.02	15 mm	1	1342M	29.3	back	92.4	0.167	0.132	1.081	1.082	0.154	
5610	122	802.11ac	OFDM	80	18.0	17.93	0.14	15 mm	1	1342M	29.3	back	92.4	0.130	0.099	1.016	1.082	0.109	
5775	155	802.11ac	OFDM	80	18.0	17.76	-0.15	15 mm	1	1342M	29.3	back	92.4	0.083	0.066	1.057	1.082	0.075	
5855	171	802.11ac	OFDM	80	18.0	17.51	-0.17	15 mm	1	1342M	29.3	back	92.4	0.099	0.067	1.119	1.082	0.081	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak								Body											
Uncontrolled Exposure/General Population								1.6 W/kg (mW/g) averaged over 1 gram											

Table 11-42
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)	
5290	58	802.11ac	OFDM	80	18.0	17.66	18.0	17.67	0.05	15 mm	MIMO	1342M	58.5	back	91.7	0.277	0.206	1.081	1.091	0.243	
5610	122	802.11ac	OFDM	80	18.0	17.93	18.0	17.95	-0.16	15 mm	MIMO	1342M	58.5	back	91.7	0.252	0.182	1.016	1.091	0.202	
5775	155	802.11ac	OFDM	80	18.0	17.76	18.0	17.96	0.02	15 mm	MIMO	1342M	58.5	back	91.7	0.252	0.177	1.057	1.091	0.204	
5855	171	802.11ac	OFDM	80	18.0	17.51	18.0	17.69	-0.15	15 mm	MIMO	1342M	58.5	back	91.7	0.293	0.228	1.119	1.091	0.278	A87
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 21 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 18 dBm.

Table 11-43
DTS Body-Worn SISO SAR during conditions with 5 GHz WLAN and/or 5G NR

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	15.0	14.84	-0.01	15 mm	2	1350M	1	back	98.9	0.073	0.052	1.038	1.011	0.055	
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 SISO was additionally evaluated at the maximum allowed output power during simultaneous operations with 5 GHz WLAN or 5G NR. 5GHz WIFI or 5G NR was not transmitting during the above evaluations.

Table 11-44
DTS Body-Worn MIMO SAR during conditions with 5 GHz WLAN and/or 5G NR

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)	
2412	1	802.11n	OFDM	20	15.0	14.61	15.0	14.73	-0.09	15 mm	MIMO	1350M	13	back	91.3	0.071	0.050	1.094	1.095	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											

Note: 2.4 GHz MIMO was additionally evaluated at the maximum allowed output power during simultaneous operations with 5 GHz WLAN or 5G NR. 5GHz WIFI or 5G NR was not transmitting during the above evaluations.

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Table 11-45
NII Body-Worn SISO SAR during Conditions with 2.4 GHz WLAN and/or 5G NR

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)	
5290	58	802.11ac	OFDM	80	13.0	12.83	-0.19	15 mm	1	1342M	29.3	back	92.4	0.046	0.033	1.040	1.082	0.037	
5530	106	802.11ac	OFDM	80	13.0	12.99	-0.15	15 mm	1	1342M	29.3	back	92.4	0.055	0.028	1.002	1.082	0.030	
5775	155	802.11ac	OFDM	80	13.0	12.83	0.14	15 mm	1	1342M	29.3	back	92.4	0.002	0.002	1.040	1.082	0.002	
5855	171	802.11ac	OFDM	80	13.0	12.48	-0.19	15 mm	1	1342M	29.3	back	92.4	0.030	0.015	1.127	1.082	0.018	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak								Body											
Uncontrolled Exposure/General Population								1.6 W/kg (mW/g) averaged over 1 gram											

Note: NII SISO was additionally evaluated at the maximum allowed output power during simultaneous operations with 2.4 GHz WLAN and/or 5G NR. 2.4 GHz WIFI or 5G NR was not transmitting during the above evaluations.

Table 11-46
NII Body-Worn MIMO SAR during Conditions with 2.4 GHz WLAN and/or 5G NR

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) (W/kg)	Plot #
MHz	Ch.															W/kg	(W/kg)			(W/kg)	
5290	58	802.11ac	OFDM	80	13.0	12.83	13.0	12.84	0.16	15 mm	MIMO	1342M	58.5	back	91.7	0.052	0.035	1.040	1.091	0.040	
5530	106	802.11ac	OFDM	80	13.0	12.99	13.0	12.99	0.14	15 mm	MIMO	1342M	58.5	back	91.7	0.064	0.050	1.002	1.091	0.055	
5775	155	802.11ac	OFDM	80	13.0	12.83	13.0	12.73	-0.17	15 mm	MIMO	1342M	58.5	back	91.7	0.031	0.014	1.064	1.091	0.016	
5855	171	802.11ac	OFDM	80	13.0	12.48	13.0	12.86	-0.15	15 mm	MIMO	1342M	58.5	back	91.7	0.062	0.041	1.127	1.091	0.050	
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 simultaneous operations with 2.4 GHz WLAN and/or 5G NR. 2.4 GHz WIFI or 5G NR was not transmitting during the above evaluations.

Table 11-47
DSS Body-Worn SAR

MEASUREMENT RESULTS																
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Spacing	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)	
2402	0	Bluetooth	FHSS	16.0	15.56	-0.12	15 mm	0878M	1	back	77.6	0.016	1.107	1.289	0.023	A89
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population								Body 1.6 W/kg (mW/g) averaged over 1 gram								

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11.3 Standalone Hotspot SAR Data

Table 11-48
GPRS/UMTS Hotspot SAR Data

MEASUREMENT RESULTS																
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Tune State	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	30.5	30.18	N/A	-0.08	10 mm	0534M	3	1:2.76	back	0.356	1.076	0.383	
836.60	190	GSM 850	GPRS	30.5	30.18	N/A	0.00	10 mm	0534M	3	1:2.76	front	0.239	1.076	0.257	
836.60	190	GSM 850	GPRS	30.5	30.18	N/A	-0.14	10 mm	0534M	3	1:2.76	bottom	0.119	1.076	0.128	
836.60	190	GSM 850	GPRS	30.5	30.18	N/A	-0.08	10 mm	0534M	3	1:2.76	right	0.420	1.076	0.452	A32
836.60	190	GSM 850	GPRS	30.5	30.18	N/A	-0.12	10 mm	0534M	3	1:2.76	left	0.243	1.076	0.261	
1909.80	810	GSM 1900	GPRS	22.5	21.75	N/A	-0.07	10 mm	0300M	4	1:2.076	back	0.283	1.189	0.336	
1909.80	810	GSM 1900	GPRS	22.5	21.75	N/A	-0.03	10 mm	0300M	4	1:2.076	front	0.291	1.189	0.346	
1850.20	512	GSM 1900	GPRS	22.5	21.05	N/A	0.04	10 mm	0300M	4	1:2.076	bottom	0.724	1.396	1.011	
1880.00	661	GSM 1900	GPRS	22.5	21.03	N/A	-0.04	10 mm	0300M	4	1:2.076	bottom	0.826	1.403	1.159	A34
1909.80	810	GSM 1900	GPRS	22.5	21.75	N/A	-0.07	10 mm	0300M	4	1:2.076	bottom	0.809	1.189	0.962	
1909.80	810	GSM 1900	GPRS	22.5	21.75	N/A	-0.19	10 mm	0300M	4	1:2.076	right	0.032	1.189	0.038	
1909.80	810	GSM 1900	GPRS	22.5	21.75	N/A	-0.16	10 mm	0300M	4	1:2.076	left	0.071	1.189	0.084	
836.60	4183	UMTS 850	RMC	25.5	24.41	68	-0.02	10 mm	0534M	N/A	1:1	back	0.428	1.285	0.550	A36
836.60	4183	UMTS 850	RMC	25.5	24.41	68	0.00	10 mm	0534M	N/A	1:1	front	0.338	1.285	0.434	
836.60	4183	UMTS 850	RMC	25.5	24.41	68	0.02	10 mm	0534M	N/A	1:1	bottom	0.128	1.285	0.164	
836.60	4183	UMTS 850	RMC	25.5	24.41	68	0.00	10 mm	0534M	N/A	1:1	right	0.380	1.285	0.488	
836.60	4183	UMTS 850	RMC	25.5	24.41	68	-0.01	10 mm	0534M	N/A	1:1	left	0.251	1.285	0.323	
1712.40	1312	UMTS 1750	RMC	19.5	18.90	14	0.03	10 mm	0553M	N/A	1:1	back	0.440	1.148	0.505	
1712.40	1312	UMTS 1750	RMC	19.5	18.90	14	0.02	10 mm	0553M	N/A	1:1	front	0.330	1.148	0.379	
1712.40	1312	UMTS 1750	RMC	19.5	18.90	14	0.06	10 mm	0553M	N/A	1:1	bottom	0.713	1.148	0.819	
1732.40	1412	UMTS 1750	RMC	19.5	18.70	14	0.02	10 mm	0553M	N/A	1:1	bottom	0.928	1.202	1.115	A38
1752.60	1513	UMTS 1750	RMC	19.5	18.53	14	0.05	10 mm	0553M	N/A	1:1	bottom	0.905	1.250	1.131	
1712.40	1312	UMTS 1750	RMC	19.5	18.90	14	0.13	10 mm	0553M	N/A	1:1	right	0.054	1.148	0.062	
1712.40	1312	UMTS 1750	RMC	19.5	18.90	14	0.08	10 mm	0553M	N/A	1:1	left	0.132	1.148	0.152	
1907.60	9538	UMTS 1900	RMC	19.5	18.80	0	0.00	10 mm	0586M	N/A	1:1	back	0.435	1.175	0.511	
1907.60	9538	UMTS 1900	RMC	19.5	18.80	0	0.00	10 mm	0586M	N/A	1:1	front	0.315	1.175	0.370	
1852.40	9262	UMTS 1900	RMC	19.5	18.68	0	-0.03	10 mm	0586M	N/A	1:1	bottom	0.783	1.208	0.946	
1880.00	9400	UMTS 1900	RMC	19.5	18.53	0	-0.06	10 mm	0586M	N/A	1:1	bottom	0.756	1.250	0.945	
1907.60	9538	UMTS 1900	RMC	19.5	18.80	0	-0.04	10 mm	0586M	N/A	1:1	bottom	0.887	1.175	1.042	A40
1907.60	9538	UMTS 1900	RMC	19.5	18.80	0	0.00	10 mm	0586M	N/A	1:1	right	0.053	1.175	0.062	
1907.60	9538	UMTS 1900	RMC	19.5	18.80	0	-0.03	10 mm	0586M	N/A	1:1	left	0.094	1.175	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								

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Table 11-49
LTE Band 71 Hotspot SAR

MEASUREMENT RESULTS																				
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Tune State	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	25.5	25.33	118	0.01	0	0540M	QPSK	1	50	10 mm	back	1:1	0.397	1.040	0.413	A42
680.50	133297	Mid	LTE Band 71	20	24.5	24.16	118	-0.01	1	0540M	QPSK	50	25	10 mm	back	1:1	0.316	1.081	0.342	
680.50	133297	Mid	LTE Band 71	20	25.5	25.33	118	0.05	0	0540M	QPSK	1	50	10 mm	front	1:1	0.308	1.040	0.320	
680.50	133297	Mid	LTE Band 71	20	24.5	24.16	118	0.00	1	0540M	QPSK	50	25	10 mm	front	1:1	0.214	1.081	0.231	
680.50	133297	Mid	LTE Band 71	20	25.5	25.33	118	-0.06	0	0540M	QPSK	1	50	10 mm	bottom	1:1	0.089	1.040	0.093	
680.50	133297	Mid	LTE Band 71	20	24.5	24.16	118	-0.01	1	0540M	QPSK	50	25	10 mm	bottom	1:1	0.075	1.081	0.081	
680.50	133297	Mid	LTE Band 71	20	25.5	25.33	118	0.00	0	0540M	QPSK	1	50	10 mm	right	1:1	0.213	1.040	0.222	
680.50	133297	Mid	LTE Band 71	20	24.5	24.16	118	0.02	1	0540M	QPSK	50	25	10 mm	right	1:1	0.150	1.081	0.162	
680.50	133297	Mid	LTE Band 71	20	25.5	25.33	118	-0.01	0	0540M	QPSK	1	50	10 mm	left	1:1	0.125	1.040	0.130	
680.50	133297	Mid	LTE Band 71	20	24.5	24.16	118	0.09	1	0540M	QPSK	50	25	10 mm	left	1:1	0.097	1.081	0.105	
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 12 Hotspot SAR

MEASUREMENT RESULTS																				
FREQUENCY			Mode	Bandwidth [MHz]	Maxium Allowed Power [dBm]	Conducted Power [dBm]	Tune State	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	25.5	25.50	118	-0.03	0	0540M	QPSK	1	49	10 mm	back	1:1	0.518	1.000	0.518	A44
707.50	23095	Mid	LTE Band 12	10	24.5	24.23	118	-0.01	1	0540M	QPSK	25	12	10 mm	back	1:1	0.409	1.064	0.435	
707.50	23095	Mid	LTE Band 12	10	25.5	25.50	118	-0.17	0	0540M	QPSK	1	49	10 mm	front	1:1	0.346	1.000	0.346	
707.50	23095	Mid	LTE Band 12	10	24.5	24.23	118	-0.01	1	0540M	QPSK	25	12	10 mm	front	1:1	0.271	1.064	0.288	
707.50	23095	Mid	LTE Band 12	10	25.5	25.50	118	-0.01	0	0540M	QPSK	1	49	10 mm	bottom	1:1	0.127	1.000	0.127	
707.50	23095	Mid	LTE Band 12	10	24.5	24.23	118	-0.08	1	0540M	QPSK	25	12	10 mm	bottom	1:1	0.097	1.064	0.103	
707.50	23095	Mid	LTE Band 12	10	25.5	25.50	118	0.07	0	0540M	QPSK	1	49	10 mm	right	1:1	0.292	1.000	0.292	
707.50	23095	Mid	LTE Band 12	10	24.5	24.23	118	0.01	1	0540M	QPSK	25	12	10 mm	right	1:1	0.210	1.064	0.223	
707.50	23095	Mid	LTE Band 12	10	25.5	25.50	118	0.07	0	0540M	QPSK	1	49	10 mm	left	1:1	0.280	1.000	0.280	
707.50	23095	Mid	LTE Band 12	10	24.5	24.23	118	-0.06	1	0540M	QPSK	25	12	10 mm	left	1:1	0.201	1.064	0.214	
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 11-51
LTE Band 13 Hotspot SAR

MEASUREMENT RESULTS																				
FREQUENCY			Mode	Bandwidth [MHz]	Maxim Allowed Power [dBm]	Conducted Power [dBm]	Tune State	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	25.5	25.19	79	0.02	0	0540M	QPSK	1	0	10 mm	back	1:1	0.512	1.074	0.550	A46
782.00	23230	Mid	LTE Band 13	10	24.5	24.20	79	0.00	1	0540M	QPSK	25	12	10 mm	back	1:1	0.410	1.072	0.440	
782.00	23230	Mid	LTE Band 13	10	25.5	25.19	79	-0.05	0	0540M	QPSK	1	0	10 mm	front	1:1	0.341	1.074	0.366	
782.00	23230	Mid	LTE Band 13	10	24.5	24.20	79	-0.02	1	0540M	QPSK	25	12	10 mm	front	1:1	0.274	1.072	0.294	
782.00	23230	Mid	LTE Band 13	10	25.5	25.19	79	-0.03	0	0540M	QPSK	1	0	10 mm	bottom	1:1	0.116	1.074	0.125	
782.00	23230	Mid	LTE Band 13	10	24.5	24.20	79	0.05	1	0540M	QPSK	25	12	10 mm	bottom	1:1	0.093	1.072	0.100	
782.00	23230	Mid	LTE Band 13	10	25.5	25.19	79	-0.04	0	0540M	QPSK	1	0	10 mm	right	1:1	0.265	1.074	0.285	
782.00	23230	Mid	LTE Band 13	10	24.5	24.20	79	-0.01	1	0540M	QPSK	25	12	10 mm	right	1:1	0.205	1.072	0.220	
782.00	23230	Mid	LTE Band 13	10	25.5	25.19	79	-0.01	0	0540M	QPSK	1	0	10 mm	left	1:1	0.303	1.074	0.325	
782.00	23230	Mid	LTE Band 13	10	24.5	24.20	79	0.00	1	0540M	QPSK	25	12	10 mm	left	1:1	0.239	1.072	0.256	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population									Body 1.6 W/kg (mW/g) averaged over 1 gram											

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Table 11-52
LTE Band 14 Hotspot SAR

MEASUREMENT RESULTS																				
FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Tune State	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	25.5	25.35	54	-0.01	0	0540M	QPSK	1	25	10 mm	back	1:1	0.486	1.035	0.503	A48
793.00	23330	Mid	LTE Band 14	10	24.5	24.36	54	-0.02	1	0540M	QPSK	25	12	10 mm	back	1:1	0.393	1.033	0.406	
793.00	23330	Mid	LTE Band 14	10	25.5	25.35	54	0.06	0	0540M	QPSK	1	25	10 mm	front	1:1	0.366	1.035	0.379	
793.00	23330	Mid	LTE Band 14	10	24.5	24.36	54	-0.01	1	0540M	QPSK	25	12	10 mm	front	1:1	0.297	1.033	0.307	
793.00	23330	Mid	LTE Band 14	10	25.5	25.35	54	0.00	0	0540M	QPSK	1	25	10 mm	bottom	1:1	0.116	1.035	0.120	
793.00	23330	Mid	LTE Band 14	10	24.5	24.36	54	-0.07	1	0540M	QPSK	25	12	10 mm	bottom	1:1	0.099	1.033	0.102	
793.00	23330	Mid	LTE Band 14	10	25.5	25.35	54	0.07	0	0540M	QPSK	1	25	10 mm	right	1:1	0.262	1.035	0.271	
793.00	23330	Mid	LTE Band 14	10	24.5	24.36	54	0.00	1	0540M	QPSK	25	12	10 mm	right	1:1	0.233	1.033	0.241	
793.00	23330	Mid	LTE Band 14	10	25.5	25.35	54	-0.02	0	0540M	QPSK	1	25	10 mm	left	1:1	0.302	1.035	0.313	
793.00	23330	Mid	LTE Band 14	10	24.5	24.36	54	0.00	1	0540M	QPSK	25	12	10 mm	left	1:1	0.250	1.033	0.258	
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 11-53
LTE Band 26 (Cell) Hotspot SAR

MEASUREMENT RESULTS																				
FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Tune State	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	25.5	25.50	14	0.14	0	0540M	QPSK	1	0	10 mm	back	1:1	0.458	1.000	0.458	A50
831.50	26865	Mid	LTE Band 26 (Cell)	15	24.5	24.27	14	0.00	1	0540M	QPSK	36	18	10 mm	back	1:1	0.347	1.054	0.366	
831.50	26865	Mid	LTE Band 26 (Cell)	15	25.5	25.50	14	0.00	0	0540M	QPSK	1	0	10 mm	front	1:1	0.330	1.000	0.330	
831.50	26865	Mid	LTE Band 26 (Cell)	15	24.5	24.27	14	-0.01	1	0540M	QPSK	36	18	10 mm	front	1:1	0.257	1.054	0.271	
831.50	26865	Mid	LTE Band 26 (Cell)	15	25.5	25.50	14	-0.04	0	0540M	QPSK	1	0	10 mm	bottom	1:1	0.127	1.000	0.127	
831.50	26865	Mid	LTE Band 26 (Cell)	15	24.5	24.27	14	0.04	1	0540M	QPSK	36	18	10 mm	bottom	1:1	0.106	1.054	0.112	
831.50	26865	Mid	LTE Band 26 (Cell)	15	25.5	25.50	14	-0.04	0	0540M	QPSK	1	0	10 mm	right	1:1	0.375	1.000	0.375	
831.50	26865	Mid	LTE Band 26 (Cell)	15	24.5	24.27	14	0.01	1	0540M	QPSK	36	18	10 mm	right	1:1	0.290	1.054	0.306	
831.50	26865	Mid	LTE Band 26 (Cell)	15	25.5	25.50	14	0.02	0	0540M	QPSK	1	0	10 mm	left	1:1	0.228	1.000	0.228	
831.50	26865	Mid	LTE Band 26 (Cell)	15	24.5	24.27	14	-0.02	1	0540M	QPSK	36	18	10 mm	left	1:1	0.161	1.054	0.170	
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 11-54
LTE Band 5 (Cell) Hotspot SAR

MEASUREMENT RESULTS																						
1 CC Uplink 2 CC Uplink	Component Carrier	FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Tune State	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	Md	LTE Band 5 (Cell)	10	25.5	24.50	1	-0.20	0	0277M	QPSK	1	0	10 mm	back	1:1	0.474	1.259	0.597	
1 CC Uplink	N/A	836.50	20525	Md	LTE Band 5 (Cell)	10	24.5	23.38	1	-0.06	1	0277M	QPSK	25	25	10 mm	back	1:1	0.356	1.294	0.461	
2 CC Uplink	PCC	836.50	20525	Md	LTE Band 5 (Cell)	10	25.5	24.45	1	-0.18	0	0277M	QPSK	1	0	10 mm	back	1:1	0.488	1.274	0.622	A52
	SCC	829.30	20453			5								1	24							
1 CC Uplink	N/A	836.50	20525	Md	LTE Band 5 (Cell)	10	25.5	24.50	1	0.01	0	0277M	QPSK	1	0	10 mm	front	1:1	0.311	1.259	0.392	
1 CC Uplink	N/A	836.50	20525	Md	LTE Band 5 (Cell)	10	24.5	23.38	1	0.01	1	0277M	QPSK	25	25	10 mm	front	1:1	0.247	1.294	0.320	
1 CC Uplink	N/A	836.50	20525	Md	LTE Band 5 (Cell)	10	25.5	24.50	1	0.08	0	0277M	QPSK	1	0	10 mm	bottom	1:1	0.148	1.259	0.186	
1 CC Uplink	N/A	836.50	20525	Md	LTE Band 5 (Cell)	10	24.5	23.38	1	0.00	1	0277M	QPSK	25	25	10 mm	bottom	1:1	0.125	1.294	0.162	
1 CC Uplink	N/A	836.50	20525	Md	LTE Band 5 (Cell)	10	25.5	24.50	1	-0.08	0	0277M	QPSK	1	0	10 mm	right	1:1	0.429	1.259	0.540	
1 CC Uplink	N/A	836.50	20525	Md	LTE Band 5 (Cell)	10	24.5	23.38	1	0.04	1	0277M	QPSK	25	25	10 mm	right	1:1	0.288	1.294	0.373	
1 CC Uplink	N/A	836.50	20525	Md	LTE Band 5 (Cell)	10	25.5	24.50	1	0.09	0	0277M	QPSK	1	0	10 mm	left	1:1	0.237	1.259	0.298	
1 CC Uplink	N/A	836.50	20525	Md	LTE Band 5 (Cell)	10	24.5	23.38	1	-0.01	1	0277M	QPSK	25	25	10 mm	left	1:1	0.158	1.294	0.204	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT											Body											
Spatial Peak											1.6 W/kg (mW/g)											
Uncontrolled Exposure/General Population											averaged over 1 gram											

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Table 11-55
LTE Band 66 (AWS) Hotspot SAR

MEASUREMENT RESULTS																						
1 CC Uplink 2 CC Uplink	Component Carrier	FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Tune State	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	1770.00	132572	High	LTE Band 66 (AWS)	20	20.0	19.13	18	-0.02	0	0427M	QPSK	1	50	10 mm	back	1:1	0.537	1.222	0.656	
1 CC Uplink	N/A	1770.00	132572	High	LTE Band 66 (AWS)	20	20.0	18.97	18	0.05	0	0427M	QPSK	50	50	10 mm	back	1:1	0.533	1.268	0.676	
1 CC Uplink	N/A	1770.00	132572	High	LTE Band 66 (AWS)	20	20.0	19.13	18	0.13	0	0427M	QPSK	1	50	10 mm	front	1:1	0.474	1.222	0.579	
1 CC Uplink	N/A	1770.00	132572	High	LTE Band 66 (AWS)	20	20.0	18.97	18	0.01	0	0427M	QPSK	50	50	10 mm	front	1:1	0.446	1.268	0.566	
1 CC Uplink	N/A	1720.00	132072	Low	LTE Band 66 (AWS)	20	20.0	18.83	18	-0.03	0	0427M	QPSK	1	99	10 mm	bottom	1:1	0.814	1.309	1.066	
1 CC Uplink	N/A	1745.00	132322	Mid	LTE Band 66 (AWS)	20	20.0	18.83	18	-0.03	0	0427M	QPSK	1	50	10 mm	bottom	1:1	0.885	1.309	1.158	
1 CC Uplink	N/A	1745.00	132322	Md	LTE Band 66 (AWS)	20	20.0	18.75	18	-0.11	0	0427M	QPSK	1	99	10 mm	bottom	1:1	0.835	1.334	1.114	
1 CC Uplink	N/A	1770.00	132572	High	LTE Band 66 (AWS)	20	20.0	19.13	18	-0.08	0	0427M	QPSK	1	50	10 mm	bottom	1:1	0.910	1.222	1.112	A54
1 CC Uplink	N/A	1720.00	132072	Low	LTE Band 66 (AWS)	20	20.0	18.78	18	0.10	0	0427M	QPSK	50	25	10 mm	bottom	1:1	0.834	1.324	1.104	
1 CC Uplink	N/A	1745.00	132322	Md	LTE Band 66 (AWS)	20	20.0	18.95	18	0.03	0	0427M	QPSK	50	25	10 mm	bottom	1:1	0.888	1.274	1.131	
1 CC Uplink	N/A	1770.00	132572	High	LTE Band 66 (AWS)	20	20.0	18.97	18	-0.01	0	0427M	QPSK	50	50	10 mm	bottom	1:1	0.884	1.268	1.121	
1 CC Uplink	N/A	1770.00	132572	High	LTE Band 66 (AWS)	20	20.0	18.95	18	0.00	0	0427M	QPSK	100	0	10 mm	bottom	1:1	0.897	1.274	1.143	
1 CC Uplink	N/A	1745.00	132322	Md	LTE Band 66 (AWS)	10	20.0	18.90	18	-0.04	0	0427M	QPSK	1	49	10 mm	bottom	1:1	0.876	1.288	1.128	
2 CC Uplink CA_66C	PCC	1745.00	132322	Md	LTE Band 66 (AWS)	20	20.0	18.53	18	0.00	0	0427M	QPSK	1	99	10 mm	bottom	1:1	0.825	1.403	1.157	
	SCC	1764.80	132520											1	0							
2 CC Uplink CA_66B	PCC	1745.00	132322	Md	LTE Band 66 (AWS)	10	20.0	18.46	18	-0.01	0	0427M	QPSK	1	49	10 mm	bottom	1:1	0.825	1.426	1.176	
	SCC	1754.90	132421											1	0							
1 CC Uplink	N/A	1770.00	132572	High	LTE Band 66 (AWS)	20	20.0	19.13	18	-0.08	0	0427M	QPSK	1	50	10 mm	right	1:1	0.056	1.222	0.068	
1 CC Uplink	N/A	1770.00	132572	High	LTE Band 66 (AWS)	20	20.0	18.97	18	0.09	0	0427M	QPSK	50	50	10 mm	right	1:1	0.054	1.268	0.068	
1 CC Uplink	N/A	1770.00	132572	High	LTE Band 66 (AWS)	20	20.0	19.13	18	0.03	0	0427M	QPSK	1	50	10 mm	left	1:1	0.119	1.222	0.145	
1 CC Uplink	N/A	1770.00	132572	High	LTE Band 66 (AWS)	20	20.0	18.97	18	-0.11	0	0427M	QPSK	50	50	10 mm	left	1:1	0.118	1.268	0.150	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT																						
Spatial Peak												Body										
Uncontrolled Exposure/General Population												1.6 W/kg (mW/g) averaged over 1 gram										

Table 11-56
LTE Band 25 (PCS) Hotspot SAR

MEASUREMENT RESULTS																				
FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Tune State	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	20.0	18.57	0	-0.02	0	0586M	QPSK	1	50	10 mm	back	1:1	0.478	1.390	0.664	
1860.00	26140	Low	LTE Band 25 (PCS)	20	20.0	18.51	0	0.02	0	0586M	QPSK	50	0	10 mm	back	1:1	0.489	1.409	0.689	
1860.00	26140	Low	LTE Band 25 (PCS)	20	20.0	18.57	0	0.00	0	0586M	QPSK	1	50	10 mm	front	1:1	0.495	1.390	0.688	
1860.00	26140	Low	LTE Band 25 (PCS)	20	20.0	18.51	0	-0.01	0	0586M	QPSK	50	0	10 mm	front	1:1	0.500	1.409	0.705	
1860.00	26140	Low	LTE Band 25 (PCS)	20	20.0	18.57	0	0.07	0	0586M	QPSK	1	50	10 mm	bottom	1:1	0.741	1.390	1.030	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	20.0	18.36	0	0.06	0	0586M	QPSK	1	0	10 mm	bottom	1:1	0.743	1.459	1.084	
1905.00	26590	High	LTE Band 25 (PCS)	20	20.0	18.31	0	0.02	0	0586M	QPSK	1	50	10 mm	bottom	1:1	0.847	1.476	1.250	A56
1860.00	26140	Low	LTE Band 25 (PCS)	20	20.0	18.51	0	-0.01	0	0586M	QPSK	50	0	10 mm	bottom	1:1	0.751	1.409	1.058	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	20.0	18.32	0	0.07	0	0586M	QPSK	50	0	10 mm	bottom	1:1	0.769	1.472	1.132	
1905.00	26590	High	LTE Band 25 (PCS)	20	20.0	18.32	0	-0.01	0	0586M	QPSK	50	50	10 mm	bottom	1:1	0.823	1.472	1.211	
1860.00	26140	Low	LTE Band 25 (PCS)	20	20.0	18.27	0	0.02	0	0586M	QPSK	100	0	10 mm	bottom	1:1	0.730	1.489	1.087	
1860.00	26140	Low	LTE Band 25 (PCS)	20	20.0	18.57	0	-0.11	0	0586M	QPSK	1	50	10 mm	right	1:1	0.048	1.390	0.067	
1860.00	26140	Low	LTE Band 25 (PCS)	20	20.0	18.51	0	-0.07	0	0586M	QPSK	50	0	10 mm	right	1:1	0.049	1.409	0.069	
1860.00	26140	Low	LTE Band 25 (PCS)	20	20.0	18.57	0	-0.02	0	0586M	QPSK	1	50	10 mm	left	1:1	0.126	1.390	0.175	
1860.00	26140	Low	LTE Band 25 (PCS)	20	20.0	18.51	0	-0.06	0	0586M	QPSK	50	0	10 mm	left	1:1	0.126	1.409	0.178	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population										Body 1.6 W/kg (mW/g) averaged over 1 gram										

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Table 11-57
LTE Band 30 Hotspot SAR

MEASUREMENT RESULTS																				
FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.	(W/kg)															(W/kg)			
2310.00	27710	Mid	LTE Band 30	10	20.0	18.86	-0.11	0	A	0577M	QPSK	1	25	10 mm	back	1:1	0.263	1.300	0.342	
2310.00	27710	Mid	LTE Band 30	10	20.0	18.84	0.01	0	A	0577M	QPSK	25	12	10 mm	back	1:1	0.257	1.306	0.336	
2310.00	27710	Mid	LTE Band 30	10	20.0	18.86	0.13	0	A	0577M	QPSK	1	25	10 mm	front	1:1	0.261	1.300	0.339	
2310.00	27710	Mid	LTE Band 30	10	20.0	18.84	-0.12	0	A	0577M	QPSK	25	12	10 mm	front	1:1	0.253	1.306	0.330	
2310.00	27710	Mid	LTE Band 30	10	20.0	18.86	0.04	0	A	0577M	QPSK	1	25	10 mm	bottom	1:1	0.550	1.300	0.715	A58
2310.00	27710	Mid	LTE Band 30	10	20.0	18.84	0.00	0	A	0577M	QPSK	25	12	10 mm	bottom	1:1	0.543	1.306	0.709	
2310.00	27710	Mid	LTE Band 30	10	20.0	18.86	0.01	0	A	0577M	QPSK	1	25	10 mm	right	1:1	0.041	1.300	0.053	
2310.00	27710	Mid	LTE Band 30	10	20.0	18.84	0.19	0	A	0577M	QPSK	25	12	10 mm	right	1:1	0.039	1.306	0.051	
2310.00	27710	Mid	LTE Band 30	10	20.0	18.86	-0.14	0	A	0577M	QPSK	1	25	10 mm	left	1:1	0.150	1.300	0.195	
2310.00	27710	Mid	LTE Band 30	10	20.0	18.84	-0.13	0	A	0577M	QPSK	25	12	10 mm	left	1:1	0.144	1.306	0.188	
2310.00	27710	Mid	LTE Band 30	10	20.0	19.24	0.00	0	B	0997M	QPSK	1	25	10 mm	back	1:1	0.138	1.191	0.164	
2310.00	27710	Mid	LTE Band 30	10	20.0	19.23	0.02	0	B	0997M	QPSK	25	12	10 mm	back	1:1	0.137	1.194	0.164	
2310.00	27710	Mid	LTE Band 30	10	20.0	19.24	0.01	0	B	0997M	QPSK	1	25	10 mm	front	1:1	0.081	1.191	0.096	
2310.00	27710	Mid	LTE Band 30	10	20.0	19.23	-0.04	0	B	0997M	QPSK	25	12	10 mm	front	1:1	0.080	1.194	0.096	
2310.00	27710	Mid	LTE Band 30	10	20.0	19.24	0.02	0	B	0997M	QPSK	1	25	10 mm	bottom	1:1	0.158	1.191	0.188	
2310.00	27710	Mid	LTE Band 30	10	20.0	19.23	-0.03	0	B	0997M	QPSK	25	12	10 mm	bottom	1:1	0.158	1.194	0.189	
2310.00	27710	Mid	LTE Band 30	10	20.0	19.24	0.00	0	B	0997M	QPSK	1	25	10 mm	left	1:1	0.125	1.191	0.149	
2310.00	27710	Mid	LTE Band 30	10	20.0	19.23	-0.04	0	B	0997M	QPSK	25	12	10 mm	left	1:1	0.123	1.194	0.147	
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
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	20.5	19.27	-0.11	0	0570M	QPSK	1	0	10 mm	back	1:1	0.228	1.327	0.303	
2560.00	21350	High	LTE Band 7	20	20.5	19.01	-0.10	0	0570M	QPSK	50	25	10 mm	back	1:1	0.219	1.409	0.309	
2560.00	21350	High	LTE Band 7	20	20.5	19.27	-0.19	0	0570M	QPSK	1	0	10 mm	front	1:1	0.186	1.327	0.247	
2560.00	21350	High	LTE Band 7	20	20.5	19.01	-0.14	0	0570M	QPSK	50	25	10 mm	front	1:1	0.177	1.409	0.249	
2560.00	21350	High	LTE Band 7	20	20.5	19.27	-0.01	0	0570M	QPSK	1	0	10 mm	bottom	1:1	0.373	1.327	0.495	A60
2560.00	21350	High	LTE Band 7	20	20.5	19.01	-0.04	0	0570M	QPSK	50	25	10 mm	bottom	1:1	0.361	1.409	0.509	
2560.00	21350	High	LTE Band 7	20	20.5	19.27	-0.09	0	0570M	QPSK	1	0	10 mm	left	1:1	0.204	1.327	0.271	
2560.00	21350	High	LTE Band 7	20	20.5	19.01	-0.03	0	0570M	QPSK	50	25	10 mm	left	1:1	0.208	1.409	0.293	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population								Body 1.6 W/kg (mW/g) averaged over 1 gram											

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Table 11-59
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)	Scaling Factor	Reported SAR (1g)	Plot #	
			MHz	Ch.														(W/kg)		(W/kg)		
1 CC Uplink - Power Class 3		N/A	2593.00	40620	Mid	LTE Band 41	20	22.0	21.01	0.01	0	0421M	QPSK	1	50	10 mm	back	1:1.58	0.218	1.256	0.274	
1 CC Uplink - Power Class 3		N/A	2593.00	40620	Mid	LTE Band 41	20	22.0	20.96	0.03	0	0421M	QPSK	50	25	10 mm	back	1:1.58	0.224	1.271	0.285	
1 CC Uplink - Power Class 3		N/A	2593.00	40620	Mid	LTE Band 41	20	22.0	20.88	0.01	0	0421M	QPSK	50	50	10 mm	back	1:1.58	0.234	1.294	0.303	
1 CC Uplink - Power Class 2		N/A	2593.00	40620	Mid	LTE Band 41	20	23.7	22.68	0.03	0	0421M	QPSK	50	25	10 mm	back	1:2.31	0.239	1.265	0.302	A62
1 CC Uplink - Power Class 2		N/A	2593.00	40620	Mid	LTE Band 41	20	23.7	22.52	0.07	0	0421M	QPSK	50	50	10 mm	back	1:2.31	0.226	1.312	0.297	
2 CC Uplink - Power Class 3		PCC	2593.00	40620	Mid	LTE Band 41	20	22.0	20.71	-0.01	0	0421M	QPSK	50	50	10 mm	back	1:1.58	0.220	1.346	0.296	
		SCC	2612.80	40818											0							
2 CC Uplink - Power Class 2		PCC	2593.00	40620	Mid	LTE Band 41	20	23.7	22.42	-0.04	0	0421M	QPSK	50	50	10 mm	back	1:2.31	0.223	1.343	0.299	
		SCC	2612.80	40818											0							
1 CC Uplink - Power Class 3		N/A	2593.00	40620	Mid	LTE Band 41	20	22.0	21.01	0.08	0	0421M	QPSK	1	50	10 mm	front	1:1.58	0.151	1.256	0.190	
1 CC Uplink - Power Class 3		N/A	2593.00	40620	Mid	LTE Band 41	20	22.0	20.96	0.08	0	0421M	QPSK	50	25	10 mm	front	1:1.58	0.152	1.271	0.193	
1 CC Uplink - Power Class 3		N/A	2593.00	40620	Mid	LTE Band 41	20	22.0	21.01	0.05	0	0421M	QPSK	1	50	10 mm	bottom	1:1.58	0.216	1.256	0.271	
1 CC Uplink - Power Class 3		N/A	2593.00	40620	Mid	LTE Band 41	20	22.0	20.96	0.03	0	0421M	QPSK	50	25	10 mm	bottom	1:1.58	0.216	1.271	0.275	
1 CC Uplink - Power Class 3		N/A	2593.00	40620	Mid	LTE Band 41	20	22.0	21.01	0.01	0	0421M	QPSK	1	50	10 mm	left	1:1.58	0.220	1.256	0.276	
1 CC Uplink - Power Class 3		N/A	2593.00	40620	Mid	LTE Band 41	20	22.0	20.96	0.05	0	0421M	QPSK	50	25	10 mm	left	1:1.58	0.219	1.271	0.278	
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
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)	Scaling Factor	Reported SAR (1g)	Plot #	
		MHz	Ch.														(W/kg)		(W/kg)		
1 CC Uplink	N/A	3646.70	56207	Mid-High	LTE Band 48	20	20.5	19.21	0.03	0	0950M	QPSK	1	50	10 mm	back	1:1.58	0.162	1.346	0.218	
1 CC Uplink	N/A	3646.70	56207	Mid-High	LTE Band 48	20	20.5	19.27	0.01	0	0950M	QPSK	50	25	10 mm	back	1:1.58	0.164	1.327	0.218	
1 CC Uplink	N/A	3646.70	56207	Mid-High	LTE Band 48	20	20.5	19.21	0.13	0	0950M	QPSK	1	50	10 mm	front	1:1.58	0.128	1.346	0.172	
1 CC Uplink	N/A	3646.70	56207	Mid-High	LTE Band 48	20	20.5	19.27	0.07	0	0950M	QPSK	50	25	10 mm	front	1:1.58	0.127	1.327	0.169	
1 CC Uplink	N/A	3646.70	56207	Mid-High	LTE Band 48	20	20.5	19.21	0.13	0	0950M	QPSK	1	50	10 mm	top	1:1.58	0.123	1.346	0.166	
1 CC Uplink	N/A	3646.70	56207	Mid-High	LTE Band 48	20	20.5	19.27	-0.02	0	0950M	QPSK	50	25	10 mm	top	1:1.58	0.124	1.327	0.165	
1 CC Uplink	N/A	3646.70	56207	Mid-High	LTE Band 48	20	20.5	19.21	-0.16	0	0950M	QPSK	1	50	10 mm	left	1:1.58	0.366	1.346	0.493	A64
1 CC Uplink	N/A	3646.70	56207	Mid-High	LTE Band 48	20	20.5	19.02	0.13	0	0950M	QPSK	1	99	10 mm	left	1:1.58	0.347	1.406	0.488	
1 CC Uplink	N/A	3646.70	56207	Mid-High	LTE Band 48	20	20.5	19.27	-0.04	0	0950M	QPSK	50	25	10 mm	left	1:1.58	0.363	1.327	0.482	
2 CC Uplink	PCC	3646.70	56207	Mid-High	LTE Band 48	20	20.5	19.00	0.13	0	0950M	QPSK	1	99	10 mm	left	1:1.58	0.345	1.413	0.487	
	SCC	3666.50	56405										1	0							
ANSI / IEEE C95.1 1992 - SAFETY LIMIT										Body											
Spatial Peak										1.6 W/kg (mW/g)											
Uncontrolled Exposure/General Population										averaged over 1 gram											

Table 11-61
NR Band n71 Hotspot SAR

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowor Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Tune State	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	25.5	24.23	0.09	0	0	0194M	DFT-S-OFDM	QPSK	1	53	10 mm	back	1:1	0.440	1.340	0.590	A66
680.50	136100	Mid	NR Band n71	20	25.5	24.40	0.03	0	0	0194M	DFT-S-OFDM	QPSK	50	28	10 mm	back	1:1	0.465	1.288	0.599	
680.50	136100	Mid	NR Band n71	20	24.0	22.89	0.08	1.5	0	0194M	CP-OFDM	QPSK	1	1	10 mm	back	1:1	0.312	1.291	0.403	
680.50	136100	Mid	NR Band n71	20	25.5	24.23	-0.01	0	0	0194M	DFT-S-OFDM	QPSK	1	53	10 mm	front	1:1	0.289	1.340	0.387	
680.50	136100	Mid	NR Band n71	20	25.5	24.40	0.02	0	0	0194M	DFT-S-OFDM	QPSK	50	28	10 mm	front	1:1	0.310	1.288	0.399	
680.50	136100	Mid	NR Band n71	20	25.5	24.23	0.05	0	0	0194M	DFT-S-OFDM	QPSK	1	53	10 mm	bottom	1:1	0.102	1.340	0.137	
680.50	136100	Mid	NR Band n71	20	25.5	24.40	-0.04	0	0	0194M	DFT-S-OFDM	QPSK	50	28	10 mm	bottom	1:1	0.105	1.288	0.135	
680.50	136100	Mid	NR Band n71	20	25.5	24.23	0.16	0	0	0194M	DFT-S-OFDM	QPSK	1	53	10 mm	right	1:1	0.165	1.340	0.221	
680.50	136100	Mid	NR Band n71	20	25.5	24.40	0.04	0	0	0194M	DFT-S-OFDM	QPSK	50	28	10 mm	right	1:1	0.181	1.288	0.233	
680.50	136100	Mid	NR Band n71	20	25.5	24.23	0.05	0	0	0194M	DFT-S-OFDM	QPSK	1	53	10 mm	left	1:1	0.213	1.340	0.285	
680.50	136100	Mid	NR Band n71	20	25.5	24.40	0.00	0	0	0194M	DFT-S-OFDM	QPSK	50	28	10 mm	left	1:1	0.232	1.288	0.299	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population								Body 1.6 W/kg (mW/g) averaged over 1 gram													

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Table 11-62
NR Band n12 Hotspot SAR

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Tune State	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	Md	NR Band n12	15	25.5	24.16	0.06	0	0	0194M	DFT-S-OFDM	QPSK	1	40	10 mm	back	1:1	0.484	1.361	0.659	
707.50	141500	Md	NR Band n12	15	25.5	24.37	0.01	0	0	0194M	DFT-S-OFDM	QPSK	36	22	10 mm	back	1:1	0.500	1.297	0.649	A68
707.50	141500	Md	NR Band n12	15	24.0	22.65	0.02	1.5	0	0194M	CP-OFDM	QPSK	1	1	10 mm	back	1:1	0.308	1.365	0.420	
707.50	141500	Md	NR Band n12	15	25.5	24.16	0.00	0	0	0194M	DFT-S-OFDM	QPSK	1	40	10 mm	front	1:1	0.341	1.361	0.464	
707.50	141500	Md	NR Band n12	15	25.5	24.37	-0.03	0	0	0194M	DFT-S-OFDM	QPSK	36	22	10 mm	front	1:1	0.352	1.297	0.457	
707.50	141500	Md	NR Band n12	15	25.5	24.16	-0.07	0	0	0194M	DFT-S-OFDM	QPSK	1	40	10 mm	bottom	1:1	0.115	1.361	0.157	
707.50	141500	Md	NR Band n12	15	25.5	24.37	0.02	0	0	0194M	DFT-S-OFDM	QPSK	36	22	10 mm	bottom	1:1	0.121	1.297	0.157	
707.50	141500	Md	NR Band n12	15	25.5	24.16	0.08	0	0	0194M	DFT-S-OFDM	QPSK	1	40	10 mm	right	1:1	0.262	1.361	0.357	
707.50	141500	Md	NR Band n12	15	25.5	24.37	0.06	0	0	0194M	DFT-S-OFDM	QPSK	36	22	10 mm	right	1:1	0.264	1.297	0.342	
707.50	141500	Md	NR Band n12	15	25.5	24.16	0.05	0	0	0194M	DFT-S-OFDM	QPSK	1	40	10 mm	left	1:1	0.285	1.361	0.388	
707.50	141500	Md	NR Band n12	15	25.5	24.37	-0.01	0	0	0194M	DFT-S-OFDM	QPSK	36	22	10 mm	left	1:1	0.282	1.297	0.366	
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 11-63
NR Band n5 Hotspot SAR

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Tune State	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	Md	NR Band n5 (Cell)	20	25.5	24.08	0.01	0	39	0194M	DFT-S-OFDM	QPSK	1	1	10 mm	back	1:1	0.500	1.387	0.694	
836.50	167300	Md	NR Band n5 (Cell)	20	25.5	24.13	0.01	0	39	0194M	DFT-S-OFDM	QPSK	50	28	10 mm	back	1:1	0.533	1.371	0.731	A70
836.50	167300	Md	NR Band n5 (Cell)	20	24.0	22.77	-0.03	1.5	39	0194M	CP-OFDM	QPSK	1	1	10 mm	back	1:1	0.362	1.327	0.480	
836.50	167300	Md	NR Band n5 (Cell)	20	25.5	24.08	0.00	0	39	0194M	DFT-S-OFDM	QPSK	1	1	10 mm	front	1:1	0.313	1.387	0.434	
836.50	167300	Md	NR Band n5 (Cell)	20	25.5	24.13	0.02	0	39	0194M	DFT-S-OFDM	QPSK	50	28	10 mm	front	1:1	0.347	1.371	0.476	
836.50	167300	Md	NR Band n5 (Cell)	20	25.5	24.08	-0.14	0	39	0194M	DFT-S-OFDM	QPSK	1	1	10 mm	bottom	1:1	0.159	1.387	0.221	
836.50	167300	Md	NR Band n5 (Cell)	20	25.5	24.13	-0.10	0	39	0194M	DFT-S-OFDM	QPSK	50	28	10 mm	bottom	1:1	0.177	1.371	0.243	
836.50	167300	Md	NR Band n5 (Cell)	20	25.5	24.08	-0.04	0	39	0194M	DFT-S-OFDM	QPSK	1	1	10 mm	right	1:1	0.456	1.387	0.632	
836.50	167300	Md	NR Band n5 (Cell)	20	25.5	24.13	-0.04	0	39	0194M	DFT-S-OFDM	QPSK	50	28	10 mm	right	1:1	0.417	1.371	0.572	
836.50	167300	Md	NR Band n5 (Cell)	20	25.5	24.08	0.03	0	39	0194M	DFT-S-OFDM	QPSK	1	1	10 mm	left	1:1	0.286	1.387	0.397	
836.50	167300	Md	NR Band n5 (Cell)	20	25.5	24.13	-0.05	0	39	0194M	DFT-S-OFDM	QPSK	50	28	10 mm	left	1:1	0.228	1.371	0.313	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT									Body												
Spatial Peak									1.6 W/kg (mW/g)												
Uncontrolled Exposure/General Population									averaged over 1 gram												

FCC ID: A3LSMS901U	 PCTEST Proud to be part of element	SAR EVALUATION REPORT		Approved by: Quality Manager
Document S/N: 1M2109080099-01.A3L (Rev2)	Test Dates: 09/12/21 - 11/08/21	DUT Type: Portable Handset		Page 142 of 183

Table 11-64
NR Band n66 Hotspot SAR

MEASUREMENT RESULTS																						
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Antenna Config	Power Drift [dB]	MPR[dB]	Tune State	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	Mtd	NR Band n66 (AWS)	40	19.0	18.61	A	0.07	0	26	0274M	DFT-S-OFDM	QPSK	1	108	10 mm	back	1:1	0.541	1.094	0.592	
1745.00	349000	Mtd	NR Band n66 (AWS)	40	19.0	18.73	A	0.02	0	26	0274M	DFT-S-OFDM	QPSK	108	108	10 mm	back	1:1	0.524	1.064	0.558	
1745.00	349000	Mtd	NR Band n66 (AWS)	40	19.0	18.61	A	0.01	0	26	0274M	DFT-S-OFDM	QPSK	1	108	10 mm	front	1:1	0.400	1.094	0.438	
1745.00	349000	Mtd	NR Band n66 (AWS)	40	19.0	18.73	A	0.02	0	26	0274M	DFT-S-OFDM	QPSK	108	108	10 mm	front	1:1	0.406	1.064	0.432	
1745.00	349000	Mtd	NR Band n66 (AWS)	40	19.0	18.61	A	-0.01	0	26	0274M	DFT-S-OFDM	QPSK	1	108	10 mm	bottom	1:1	0.822	1.094	0.899	
1745.00	349000	Mtd	NR Band n66 (AWS)	40	19.0	18.73	A	-0.03	0	26	0274M	DFT-S-OFDM	QPSK	108	108	10 mm	bottom	1:1	0.855	1.064	0.910	
1745.00	349000	Mtd	NR Band n66 (AWS)	40	19.0	18.60	A	-0.02	0	26	0274M	DFT-S-OFDM	QPSK	216	0	10 mm	bottom	1:1	0.865	1.096	0.948	
1745.00	349000	Mtd	NR Band n66 (AWS)	40	19.0	18.45	A	-0.01	0	26	0274M	CP-OFDM	QPSK	1	1	10 mm	bottom	1:1	0.898	1.135	1.019	A72
1745.00	349000	Mtd	NR Band n66 (AWS)	40	19.0	18.61	A	0.03	0	26	0274M	DFT-S-OFDM	QPSK	1	108	10 mm	right	1:1	0.953	1.094	0.958	
1745.00	349000	Mtd	NR Band n66 (AWS)	40	19.0	18.73	A	0.11	0	26	0274M	DFT-S-OFDM	QPSK	108	108	10 mm	right	1:1	0.955	1.064	0.959	
1745.00	349000	Mtd	NR Band n66 (AWS)	40	19.0	18.61	A	0.04	0	26	0274M	DFT-S-OFDM	QPSK	1	108	10 mm	left	1:1	0.112	1.094	0.123	
1745.00	349000	Mtd	NR Band n66 (AWS)	40	19.0	18.73	A	-0.03	0	26	0274M	DFT-S-OFDM	QPSK	108	108	10 mm	left	1:1	0.117	1.064	0.124	
1745.00	349000	Mtd	NR Band n66 (AWS)	40	21.0	20.22	F	-0.01	0	N/A	1004M	DFT-S-OFDM	QPSK	1	214	10 mm	back	1:1	0.278	1.197	0.333	
1745.00	349000	Mtd	NR Band n66 (AWS)	40	21.0	20.38	F	0.04	0	N/A	1004M	DFT-S-OFDM	QPSK	108	108	10 mm	back	1:1	0.287	1.153	0.331	
1745.00	349000	Mtd	NR Band n66 (AWS)	40	21.0	20.22	F	0.04	0	N/A	1004M	DFT-S-OFDM	QPSK	1	214	10 mm	front	1:1	0.247	1.197	0.296	
1745.00	349000	Mtd	NR Band n66 (AWS)	40	21.0	20.38	F	-0.04	0	N/A	1004M	DFT-S-OFDM	QPSK	108	108	10 mm	front	1:1	0.255	1.153	0.294	
1745.00	349000	Mtd	NR Band n66 (AWS)	40	21.0	20.22	F	0.04	0	N/A	1004M	DFT-S-OFDM	QPSK	1	214	10 mm	top	1:1	0.381	1.197	0.456	
1745.00	349000	Mtd	NR Band n66 (AWS)	40	21.0	20.38	F	-0.12	0	N/A	1004M	DFT-S-OFDM	QPSK	108	108	10 mm	top	1:1	0.448	1.153	0.517	
1745.00	349000	Mtd	NR Band n66 (AWS)	40	21.0	20.14	F	0.13	0	N/A	1004M	CP-OFDM	QPSK	1	1	10 mm	top	1:1	0.469	1.219	0.572	
1745.00	349000	Mtd	NR Band n66 (AWS)	40	21.0	20.22	F	0.01	0	N/A	1004M	DFT-S-OFDM	QPSK	1	214	10 mm	right	1:1	0.085	1.197	0.102	
1745.00	349000	Mtd	NR Band n66 (AWS)	40	21.0	20.38	F	-0.02	0	N/A	1004M	DFT-S-OFDM	QPSK	108	108	10 mm	right	1:1	0.091	1.153	0.106	
ANSI / IEEE C63.1 1992 - SAFETY LIMIT										Body												
Spatial Peak										1.6 W/kg (mW/g)												
Uncontrolled Exposure/General Population										averaged over 1 gram												

Table 11-65
NR Band n25 Hotspot SAR

MEASUREMENT RESULTS																						
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Antenna Config	Power Drift [dB]	MPR [dB]	Tune State	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.																					
1882.50	376500	Mtd	NR Band n25 (PCS)	40	18.5	17.81	A	0.05	0	0	0303M	DFT-S-OFDM	QPSK	1	1	10 mm	back	1:1	0.540	1.172	0.633	
1882.50	376500	Mtd	NR Band n25 (PCS)	40	18.5	17.94	A	0.07	0	0	0303M	DFT-S-OFDM	QPSK	108	108	10 mm	back	1:1	0.488	1.138	0.553	
1882.50	376500	Mtd	NR Band n25 (PCS)	40	18.5	17.81	A	0.07	0	0	0303M	DFT-S-OFDM	QPSK	1	1	10 mm	front	1:1	0.472	1.172	0.553	
1882.50	376500	Mtd	NR Band n25 (PCS)	40	18.5	17.94	A	-0.03	0	0	0303M	DFT-S-OFDM	QPSK	108	108	10 mm	front	1:1	0.450	1.138	0.512	
1882.50	376500	Mtd	NR Band n25 (PCS)	40	18.5	17.81	A	0.02	0	0	0303M	DFT-S-OFDM	QPSK	1	1	10 mm	bottom	1:1	0.973	1.172	1.140	
1882.50	376500	Mtd	NR Band n25 (PCS)	40	18.5	17.94	A	0.00	0	0	0303M	DFT-S-OFDM	QPSK	108	108	10 mm	bottom	1:1	1.000	1.138	1.138	
1882.50	376500	Mtd	NR Band n25 (PCS)	40	18.5	17.80	A	0.04	0	0	0303M	DFT-S-OFDM	QPSK	216	0	10 mm	bottom	1:1	1.020	1.175	1.199	
1882.50	376500	Mtd	NR Band n25 (PCS)	40	18.5	17.80	A	0.00	0	0	0303M	CP-OFDM	QPSK	1	1	10 mm	bottom	1:1	1.020	1.175	1.199	A74
1882.50	376500	Mtd	NR Band n25 (PCS)	40	18.5	17.81	A	0.06	0	0	0303M	DFT-S-OFDM	QPSK	1	1	10 mm	right	1:1	0.205	1.172	0.240	
1882.50	376500	Mtd	NR Band n25 (PCS)	40	18.5	17.94	A	-0.02	0	0	0303M	DFT-S-OFDM	QPSK	108	108	10 mm	right	1:1	0.189	1.138	0.215	
1882.50	376500	Mtd	NR Band n25 (PCS)	40	18.5	17.81	A	0.07	0	0	0303M	DFT-S-OFDM	QPSK	1	1	10 mm	left	1:1	0.130	1.172	0.152	
1882.50	376500	Mtd	NR Band n25 (PCS)	40	18.5	17.94	A	0.03	0	0	0303M	DFT-S-OFDM	QPSK	108	108	10 mm	left	1:1	0.123	1.138	0.140	
1882.50	376500	Mtd	NR Band n25 (PCS)	40	22.0	21.39	F	-0.02	0	N/A	0198M	DFT-S-OFDM	QPSK	1	108	10 mm	back	1:1	0.193	1.151	0.222	
1882.50	376500	Mtd	NR Band n25 (PCS)	40	22.0	21.50	F	-0.03	0	N/A	0198M	DFT-S-OFDM	QPSK	108	0	10 mm	back	1:1	0.208	1.122	0.233	
1882.50	376500	Mtd	NR Band n25 (PCS)	40	22.0	21.39	F	-0.12	0	N/A	0198M	DFT-S-OFDM	QPSK	1	108	10 mm	front	1:1	0.158	1.151	0.182	
1882.50	376500	Mtd	NR Band n25 (PCS)	40	22.0	21.50	F	-0.01	0	N/A	0198M	DFT-S-OFDM	QPSK	108	0	10 mm	front	1:1	0.156	1.122	0.175	
1882.50	376500	Mtd	NR Band n25 (PCS)	40	22.0	21.39	F	-0.04	0	N/A	0198M	DFT-S-OFDM	QPSK	1	108	10 mm	top	1:1	0.371	1.151	0.427	
1882.50	376500	Mtd	NR Band n25 (PCS)	40	22.0	21.50	F	0.04	0	N/A	0198M	DFT-S-OFDM	QPSK	108	0	10 mm	top	1:1	0.386	1.122	0.433	
1882.50	376500	Mtd	NR Band n25 (PCS)	40	22.0	21.29	F	0.06	0	N/A	0198M	CP-OFDM	QPSK	1	1	10 mm	top	1:1	0.373	1.178	0.439	
1882.50	376500	Mtd	NR Band n25 (PCS)	40	22.0	21.39	F	-0.04	0	N/A	0198M	DFT-S-OFDM	QPSK	1	108	10 mm	right	1:1	0.078	1.151	0.090	
1882.50	376500	Mtd	NR Band n25 (PCS)	40	22.0	21.50	F	0.08	0	N/A	0198M	DFT-S-OFDM	QPSK	108	0	10 mm	right	1:1	0.082	1.122	0.092	
1882.50	376500	Mtd	NR Band n25 (PCS)	40	18.5	17.80	A	0.00	0	0	0303M	CP-OFDM	QPSK	1	1	10 mm	bottom	1:1	0.990	1.175	1.163	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT								Body														
Spatial Peak								1.6 W/kg (mW/g)														
Uncontrolled Exposure/General Population								averaged over 1 gram														

Note: Blue entry represents variability measurement.

FCC ID: A3LSMS901U		SAR EVALUATION REPORT		Approved by: Quality Manager
Document S/N: 1M2109080099-01.A3L (Rev2)	Test Dates: 09/12/21 - 11/08/21	DUT Type: Portable Handset		Page 143 of 183

Table 11-66
NR Band n30 Hotspot SAR

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Bandwidth [dBHz]	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	19.5	18.43	A	0.02	0	0292M	DFT-S-OFDM	QPSK	1	26	10 mm	back	1:1	0.367	1.279	0.469	
2310.00	462000	Mid	NR Band n30	10	19.5	18.50	A	-0.01	0	0292M	DFT-S-OFDM	QPSK	25	14	10 mm	back	1:1	0.382	1.259	0.481	
2310.00	462000	Mid	NR Band n30	10	19.5	18.43	A	0.00	0	0292M	DFT-S-OFDM	QPSK	1	26	10 mm	front	1:1	0.373	1.279	0.477	
2310.00	462000	Mid	NR Band n30	10	19.5	18.50	A	0.01	0	0292M	DFT-S-OFDM	QPSK	25	14	10 mm	front	1:1	0.387	1.259	0.487	
2310.00	462000	Mid	NR Band n30	10	19.5	18.43	A	-0.07	0	0292M	DFT-S-OFDM	QPSK	1	26	10 mm	bottom	1:1	0.831	1.279	1.063	
2310.00	462000	Mid	NR Band n30	10	19.5	18.50	A	-0.02	0	0292M	DFT-S-OFDM	QPSK	25	14	10 mm	bottom	1:1	0.848	1.259	1.068	A76
2310.00	462000	Mid	NR Band n30	10	19.5	18.42	A	0.01	0	0292M	DFT-S-OFDM	QPSK	50	0	10 mm	bottom	1:1	0.843	1.282	1.081	
2310.00	462000	Mid	NR Band n30	10	19.5	18.38	A	0.08	0	0292M	CP-OFDM	QPSK	1	1	10 mm	bottom	1:1	0.804	1.294	1.040	
2310.00	462000	Mid	NR Band n30	10	19.5	18.43	A	-0.01	0	0292M	DFT-S-OFDM	QPSK	1	26	10 mm	right	1:1	0.033	1.279	0.042	
2310.00	462000	Mid	NR Band n30	10	19.5	18.50	A	-0.14	0	0292M	DFT-S-OFDM	QPSK	25	14	10 mm	right	1:1	0.039	1.259	0.049	
2310.00	462000	Mid	NR Band n30	10	19.5	18.43	A	0.01	0	0292M	DFT-S-OFDM	QPSK	1	26	10 mm	left	1:1	0.158	1.279	0.202	
2310.00	462000	Mid	NR Band n30	10	19.5	18.50	A	0.08	0	0292M	DFT-S-OFDM	QPSK	25	14	10 mm	left	1:1	0.164	1.259	0.206	
2310.00	462000	Mid	NR Band n30	10	19.5	18.50	A	-0.01	0	0292M	DFT-S-OFDM	QPSK	25	14	10 mm	bottom	1:1	0.740	1.259	0.932	
2310.00	462000	Mid	NR Band n30	10	19.5	19.10	B	0.01	0	0997M	DFT-S-OFDM	QPSK	1	26	10 mm	back	1:1	0.076	1.096	0.083	
2310.00	462000	Mid	NR Band n30	10	19.5	19.15	B	-0.01	0	0997M	DFT-S-OFDM	QPSK	25	14	10 mm	back	1:1	0.078	1.084	0.085	
2310.00	462000	Mid	NR Band n30	10	19.5	19.10	B	0.04	0	0997M	DFT-S-OFDM	QPSK	1	26	10 mm	front	1:1	0.040	1.096	0.044	
2310.00	462000	Mid	NR Band n30	10	19.5	19.15	B	-0.07	0	0997M	DFT-S-OFDM	QPSK	25	14	10 mm	front	1:1	0.033	1.084	0.036	
2310.00	462000	Mid	NR Band n30	10	19.5	19.10	B	-0.14	0	0997M	DFT-S-OFDM	QPSK	1	26	10 mm	bottom	1:1	0.079	1.096	0.087	
2310.00	462000	Mid	NR Band n30	10	19.5	19.15	B	0.06	0	0997M	DFT-S-OFDM	QPSK	25	14	10 mm	bottom	1:1	0.084	1.084	0.091	
2310.00	462000	Mid	NR Band n30	10	19.5	19.03	B	-0.04	0	0997M	CP-OFDM	QPSK	1	1	10 mm	bottom	1:1	0.089	1.114	0.099	
2310.00	462000	Mid	NR Band n30	10	19.5	19.10	B	-0.06	0	0997M	DFT-S-OFDM	QPSK	1	26	10 mm	left	1:1	0.057	1.096	0.062	
2310.00	462000	Mid	NR Band n30	10	19.5	19.15	B	0.17	0	0997M	DFT-S-OFDM	QPSK	25	14	10 mm	left	1:1	0.058	1.084	0.063	
2310.00	462000	Mid	NR Band n30	10	22.0	21.29	F	0.01	0	1035M	DFT-S-OFDM	QPSK	1	1	10 mm	back	1:1	0.443	1.178	0.522	
2310.00	462000	Mid	NR Band n30	10	22.0	21.40	F	-0.02	0	1035M	DFT-S-OFDM	QPSK	25	14	10 mm	back	1:1	0.460	1.148	0.528	
2310.00	462000	Mid	NR Band n30	10	21.5	21.27	F	0.01	0.5	1035M	CP-OFDM	QPSK	1	1	10 mm	back	1:1	0.393	1.054	0.414	
2310.00	462000	Mid	NR Band n30	10	22.0	21.29	F	0.07	0	1035M	DFT-S-OFDM	QPSK	1	1	10 mm	front	1:1	0.264	1.178	0.311	
2310.00	462000	Mid	NR Band n30	10	22.0	21.40	F	-0.03	0	1035M	DFT-S-OFDM	QPSK	25	14	10 mm	front	1:1	0.270	1.148	0.310	
2310.00	462000	Mid	NR Band n30	10	22.0	21.29	F	0.16	0	1035M	DFT-S-OFDM	QPSK	1	1	10 mm	top	1:1	0.021	1.178	0.025	
2310.00	462000	Mid	NR Band n30	10	22.0	21.40	F	-0.18	0	1035M	DFT-S-OFDM	QPSK	25	14	10 mm	top	1:1	0.020	1.148	0.023	
2310.00	462000	Mid	NR Band n30	10	22.0	21.29	F	0.19	0	1035M	DFT-S-OFDM	QPSK	1	1	10 mm	right	1:1	0.052	1.178	0.061	
2310.00	462000	Mid	NR Band n30	10	22.0	21.40	F	0.07	0	1035M	DFT-S-OFDM	QPSK	25	14	10 mm	right	1:1	0.055	1.148	0.063	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT								Body													
Spatial Peak								1.6 W/kg (mW/g)													
Uncontrolled Exposure/General Population								averaged over 1 gram													

Note: Blue entry represents variability measurement.

FCC ID: A3LSMS901U	 PCTEST Proud to be part of element	SAR EVALUATION REPORT		Approved by: Quality Manager
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Table 11-67
NR Band n7 Hotspot SAR

MEASUREMENT RESULTS																				
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	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)		
2535.00	507000	Mid	NR Band n7	40	19.5	18.31	0.03	0	0294M	DFT-S-OFDM	QPSK	1	214	10 mm	back	1:1	0.252	1.315	0.331	A78
2535.00	507000	Mid	NR Band n7	40	19.5	18.37	0.02	0	0294M	DFT-S-OFDM	QPSK	108	108	10 mm	back	1:1	0.276	1.297	0.358	
2535.00	507000	Mid	NR Band n7	40	19.5	18.31	0.01	0	0294M	DFT-S-OFDM	QPSK	1	214	10 mm	front	1:1	0.257	1.315	0.338	
2535.00	507000	Mid	NR Band n7	40	19.5	18.37	0.01	0	0294M	DFT-S-OFDM	QPSK	108	108	10 mm	front	1:1	0.274	1.297	0.355	
2535.00	507000	Mid	NR Band n7	40	19.5	18.31	-0.03	0	0294M	DFT-S-OFDM	QPSK	1	214	10 mm	bottom	1:1	0.630	1.315	0.828	
2535.00	507000	Mid	NR Band n7	40	19.5	18.37	0.03	0	0294M	DFT-S-OFDM	QPSK	108	108	10 mm	bottom	1:1	0.658	1.297	0.853	
2535.00	507000	Mid	NR Band n7	40	19.5	18.30	-0.10	0	0294M	DFT-S-OFDM	QPSK	216	0	10 mm	bottom	1:1	0.660	1.318	0.870	
2535.00	507000	Mid	NR Band n7	40	19.5	18.35	0.01	0	0294M	CP-OFDM	QPSK	1	1	10 mm	bottom	1:1	0.683	1.303	0.890	
2535.00	507000	Mid	NR Band n7	40	19.5	18.31	0.03	0	0294M	DFT-S-OFDM	QPSK	1	214	10 mm	left	1:1	0.240	1.315	0.316	A78
2535.00	507000	Mid	NR Band n7	40	19.5	18.37	-0.03	0	0294M	DFT-S-OFDM	QPSK	108	108	10 mm	left	1:1	0.262	1.297	0.340	
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 11-68
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)		Reported SAR (1g) (W/kg)	Plot #	
MHz	Ch.																(W/kg)	Scaling Factor			
2592.99	518598	Mid	NR Band n41	100	21.0	20.56	F	0.05	0	0919M	DFT-S-OFDM	QPSK	1	1	10 mm	back	1:1	0.334	1.107	0.370	A80
2592.99	518598	Mid	NR Band n41	100	21.0	20.45	F	0.03	0	0919M	DFT-S-OFDM	QPSK	135	0	10 mm	back	1:1	0.311	1.135	0.353	
2592.99	518598	Mid	NR Band n41	100	21.0	20.54	F	0.07	0	0919M	CP-OFDM	QPSK	1	1	10 mm	back	1:1	0.337	1.112	0.375	
2592.99	518598	Mid	NR Band n41	100	21.0	20.56	F	-0.18	0	0919M	DFT-S-OFDM	QPSK	1	1	10 mm	front	1:1	0.180	1.107	0.199	
2592.99	518598	Mid	NR Band n41	100	21.0	20.45	F	0.02	0	0919M	DFT-S-OFDM	QPSK	135	0	10 mm	front	1:1	0.146	1.135	0.166	
2592.99	518598	Mid	NR Band n41	100	21.0	20.56	F	-0.02	0	0919M	DFT-S-OFDM	QPSK	1	1	10 mm	top	1:1	0.282	1.107	0.312	
2592.99	518598	Mid	NR Band n41	100	21.0	20.45	F	0.01	0	0919M	DFT-S-OFDM	QPSK	135	0	10 mm	top	1:1	0.295	1.135	0.335	
2592.99	518598	Mid	NR Band n41	100	21.0	20.56	F	0.08	0	0919M	DFT-S-OFDM	QPSK	1	1	10 mm	right	1:1	0.043	1.107	0.048	
2592.99	518598	Mid	NR Band n41	100	21.0	20.45	F	0.03	0	0919M	DFT-S-OFDM	QPSK	135	0	10 mm	right	1:1	0.053	1.135	0.060	
2592.99	518598	Mid	NR Band n41	100	17.5	16.50	B	-0.01	N/A	0919M	CW/SRS	N/A	N/A	N/A	10 mm	back	1:1	0.128	1.259	0.161	
2592.99	518598	Mid	NR Band n41	100	17.5	16.50	B	0.00	N/A	0919M	CW/SRS	N/A	N/A	N/A	10 mm	front	1:1	0.144	1.259	0.181	
2592.99	518598	Mid	NR Band n41	100	17.5	16.50	B	0.01	N/A	0919M	CW/SRS	N/A	N/A	N/A	10 mm	bottom	1:1	0.307	1.259	0.387	
2592.99	518598	Mid	NR Band n41	100	17.5	16.50	B	-0.01	N/A	0919M	CW/SRS	N/A	N/A	N/A	10 mm	left	1:1	0.097	1.259	0.122	
2592.99	518598	Mid	NR Band n41	100	16.5	15.38	E	0.11	N/A	0919M	CW/SRS	N/A	N/A	N/A	10 mm	back	1:1	0.034	1.294	0.044	
2592.99	518598	Mid	NR Band n41	100	16.5	15.38	E	-0.01	N/A	0919M	CW/SRS	N/A	N/A	N/A	10 mm	front	1:1	0.126	1.294	0.163	
2592.99	518598	Mid	NR Band n41	100	16.5	15.38	E	-0.15	N/A	0919M	CW/SRS	N/A	N/A	N/A	10 mm	top	1:1	0.065	1.294	0.084	
2592.99	518598	Mid	NR Band n41	100	16.5	15.38	E	0.15	N/A	0919M	CW/SRS	N/A	N/A	N/A	10 mm	right	1:1	0.001	1.294	0.001	
2592.99	518598	Mid	NR Band n41	100	16.5	15.38	E	-0.14	N/A	0919M	CW/SRS	N/A	N/A	N/A	10 mm	left	1:1	0.010	1.294	0.013	
2592.99	518598	Mid	NR Band n41	100	15.5	14.49	D	0.02	N/A	0919M	CW/SRS	N/A	N/A	N/A	10 mm	back	1:1	0.064	1.262	0.081	
2592.99	518598	Mid	NR Band n41	100	15.5	14.49	D	-0.19	N/A	0919M	CW/SRS	N/A	N/A	N/A	10 mm	front	1:1	0.013	1.262	0.016	
2592.99	518598	Mid	NR Band n41	100	15.5	14.49	D	-0.13	N/A	0919M	CW/SRS	N/A	N/A	N/A	10 mm	bottom	1:1	0.014	1.262	0.018	
2592.99	518598	Mid	NR Band n41	100	15.5	14.49	D	0.17	N/A	0919M	CW/SRS	N/A	N/A	N/A	10 mm	right	1:1	0.000	1.262	0.000	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT									Body												
Spatial Peak									1.6 W/kg (mW/g)												
Uncontrolled Exposure/General Population									averaged over 1 gram												

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Document S/N: 1M2109080099-01.A3L (Rev2)	Test Dates: 09/12/21 - 11/08/21	DUT Type: Portable Handset		Page 145 of 183

Table 11-69
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)		
3500.01	633334	Md	NR Band n77 DoD	100	18.0	16.75	G	-0.03	0	0885M	DFT-S-OFDM	QPSK	1	1	10 mm	back	1:1	0.150	1.334	0.200	
3500.01	633334	Md	NR Band n77 DoD	100	18.0	16.59	G	0.10	0	0885M	DFT-S-OFDM	QPSK	135	0	10 mm	back	1:1	0.152	1.384	0.210	
3500.01	633334	Md	NR Band n77 DoD	100	18.0	16.75	G	-0.02	0	0885M	DFT-S-OFDM	QPSK	1	1	10 mm	front	1:1	0.108	1.334	0.144	
3500.01	633334	Md	NR Band n77 DoD	100	18.0	16.59	G	-0.11	0	0885M	DFT-S-OFDM	QPSK	135	0	10 mm	front	1:1	0.098	1.384	0.136	
3500.01	633334	Md	NR Band n77 DoD	100	18.0	16.75	G	0.14	0	0885M	DFT-S-OFDM	QPSK	1	1	10 mm	top	1:1	0.069	1.334	0.092	
3500.01	633334	Md	NR Band n77 DoD	100	18.0	16.59	G	-0.07	0	0885M	DFT-S-OFDM	QPSK	135	0	10 mm	top	1:1	0.068	1.384	0.094	
3500.01	633334	Md	NR Band n77 DoD	100	18.0	16.75	G	0.09	0	0885M	DFT-S-OFDM	QPSK	1	1	10 mm	left	1:1	0.270	1.334	0.360	
3500.01	633334	Md	NR Band n77 DoD	100	18.0	16.59	G	-0.01	0	0885M	DFT-S-OFDM	QPSK	135	0	10 mm	left	1:1	0.271	1.384	0.375	A62
3500.01	633334	Md	NR Band n77 DoD	100	18.0	16.86	G	-0.02	0	0885M	CP-OFDM	QPSK	1	1	10 mm	left	1:1	0.268	1.300	0.348	
3500.01	633334	Md	NR Band n77 DoD	100	12.5	11.20	C	-0.16	N/A	0885M	CW/SRS	N/A	N/A	N/A	10 mm	back	1:1	0.016	1.349	0.022	
3500.01	633334	Md	NR Band n77 DoD	100	12.5	11.20	C	-0.17	N/A	0885M	CW/SRS	N/A	N/A	N/A	10 mm	front	1:1	0.016	1.349	0.022	
3500.01	633334	Md	NR Band n77 DoD	100	12.5	11.20	C	0.00	N/A	0885M	CW/SRS	N/A	N/A	N/A	10 mm	bottom	1:1	0.005	1.349	0.007	
3500.01	633334	Md	NR Band n77 DoD	100	12.5	11.20	C	-0.02	N/A	0885M	CW/SRS	N/A	N/A	N/A	10 mm	left	1:1	0.033	1.349	0.045	
3500.01	633334	Md	NR Band n77 DoD	100	18.0	16.53	H	-0.04	N/A	0885M	CW/SRS	N/A	N/A	N/A	10 mm	back	1:1	0.079	1.403	0.111	
3500.01	633334	Md	NR Band n77 DoD	100	18.0	16.53	H	0.15	N/A	0885M	CW/SRS	N/A	N/A	N/A	10 mm	front	1:1	0.000	1.403	0.000	
3500.01	633334	Md	NR Band n77 DoD	100	18.0	16.53	H	0.17	N/A	0885M	CW/SRS	N/A	N/A	N/A	10 mm	top	1:1	0.001	1.403	0.001	
3500.01	633334	Md	NR Band n77 DoD	100	12.5	11.13	D	0.02	N/A	0885M	CW/SRS	N/A	N/A	N/A	10 mm	back	1:1	0.081	1.371	0.111	
3500.01	633334	Md	NR Band n77 DoD	100	12.5	11.13	D	-0.10	N/A	0885M	CW/SRS	N/A	N/A	N/A	10 mm	front	1:1	0.004	1.371	0.005	
3500.01	633334	Md	NR Band n77 DoD	100	12.5	11.13	D	-0.13	N/A	0885M	CW/SRS	N/A	N/A	N/A	10 mm	bottom	1:1	0.006	1.371	0.008	
3500.01	633334	Md	NR Band n77 DoD	100	12.5	11.13	D	0.00	N/A	0885M	CW/SRS	N/A	N/A	N/A	10 mm	right	1:1	0.006	1.371	0.008	
3930.00	662000	High	NR Band n77	100	18.0	17.70	G	0.03	0	0885M	DFT-S-OFDM	QPSK	1	137	10 mm	back	1:1	0.220	1.072	0.236	
3930.00	662000	High	NR Band n77	100	18.0	17.69	G	-0.04	0	0885M	DFT-S-OFDM	QPSK	135	69	10 mm	back	1:1	0.216	1.074	0.232	
3930.00	662000	High	NR Band n77	100	18.0	17.70	G	0.04	0	0885M	DFT-S-OFDM	QPSK	1	137	10 mm	front	1:1	0.131	1.072	0.140	
3930.00	662000	High	NR Band n77	100	18.0	17.69	G	0.04	0	0885M	DFT-S-OFDM	QPSK	135	69	10 mm	front	1:1	0.132	1.074	0.142	
3930.00	662000	High	NR Band n77	100	18.0	17.70	G	-0.03	0	0885M	DFT-S-OFDM	QPSK	1	137	10 mm	top	1:1	0.115	1.072	0.123	
3930.00	662000	High	NR Band n77	100	18.0	17.69	G	-0.04	0	0885M	DFT-S-OFDM	QPSK	135	69	10 mm	top	1:1	0.114	1.074	0.122	
3750.00	650000	Low	NR Band n77	100	18.0	17.65	G	-0.08	0	0885M	DFT-S-OFDM	QPSK	1	137	10 mm	left	1:1	0.303	1.084	0.328	
3930.00	662000	High	NR Band n77	100	18.0	17.70	G	-0.03	0	0885M	DFT-S-OFDM	QPSK	1	137	10 mm	left	1:1	0.400	1.072	0.429	
3750.00	650000	Low	NR Band n77	100	18.0	17.68	G	0.00	0	0885M	DFT-S-OFDM	QPSK	135	0	10 mm	left	1:1	0.303	1.076	0.326	
3930.00	662000	High	NR Band n77	100	18.0	17.69	G	0.03	0	0885M	DFT-S-OFDM	QPSK	135	69	10 mm	left	1:1	0.408	1.074	0.438	A64
3930.00	662000	High	NR Band n77	100	18.0	17.59	G	0.08	0	0885M	DFT-S-OFDM	QPSK	270	0	10 mm	left	1:1	0.370	1.099	0.407	
3930.00	662000	High	NR Band n77	100	18.0	17.59	G	0.01	0	0885M	CP-OFDM	QPSK	1	1	10 mm	left	1:1	0.370	1.099	0.407	
3930.00	662000	High	NR Band n77	100	12.5	11.75	C	0.18	N/A	0885M	CW/SRS	N/A	N/A	N/A	10 mm	back	1:1	0.049	1.189	0.058	
3930.00	662000	High	NR Band n77	100	12.5	11.75	C	-0.11	N/A	0885M	CW/SRS	N/A	N/A	N/A	10 mm	front	1:1	0.051	1.189	0.061	
3930.00	662000	High	NR Band n77	100	12.5	11.75	C	-0.05	N/A	0885M	CW/SRS	N/A	N/A	N/A	10 mm	bottom	1:1	0.032	1.189	0.038	
3930.00	662000	High	NR Band n77	100	12.5	11.75	C	0.08	N/A	0885M	CW/SRS	N/A	N/A	N/A	10 mm	left	1:1	0.093	1.189	0.111	
3930.00	662000	High	NR Band n77	100	18.0	17.96	H	0.05	N/A	0885M	CW/SRS	N/A	N/A	N/A	10 mm	back	1:1	0.183	1.009	0.185	
3930.00	662000	High	NR Band n77	100	18.0	17.96	H	-0.20	N/A	0885M	CW/SRS	N/A	N/A	N/A	10 mm	front	1:1	0.000	1.009	0.000	
3930.00	662000	High	NR Band n77	100	18.0	17.96	H	-0.17	N/A	0885M	CW/SRS	N/A	N/A	N/A	10 mm	top	1:1	0.011	1.009	0.011	
3930.00	662000	High	NR Band n77	100	12.5	11.92	D	-0.14	N/A	0885M	CW/SRS	N/A	N/A	N/A	10 mm	back	1:1	0.037	1.143	0.042	
3930.00	662000	High	NR Band n77	100	12.5	11.92	D	0.13	N/A	0885M	CW/SRS	N/A	N/A	N/A	10 mm	front	1:1	0.001	1.143	0.001	
3930.00	662000	High	NR Band n77	100	12.5	11.92	D	0.12	N/A	0885M	CW/SRS	N/A	N/A	N/A	10 mm	bottom	1:1	0.005	1.143	0.006	
3930.00	662000	High	NR Band n77	100	12.5	11.92	D	0.20	N/A	0885M	CW/SRS	N/A	N/A	N/A	10 mm	right	1:1	0.000	1.143	0.000	
ANSI / IEEE C85.1 1992 - SAFETY LIMIT Spatial Peak											Body 1.6 W/kg (mW/g) averaged over 1 gram										
Uncontrolled Exposure/General Population																					

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Table 11-70
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)	
2412	1	802.11b	DSSS	22	19.0	18.92	-0.07	10 mm	2	1133M	1	back	98.9	0.573	0.414	1.019	1.011	0.427	
2412	1	802.11b	DSSS	22	19.0	18.92	0.01	10 mm	2	1133M	1	front	98.9	0.046	0.034	1.019	1.011	0.035	
2412	1	802.11b	DSSS	22	19.0	18.92	0.11	10 mm	2	1133M	1	top	98.9	0.130	0.103	1.019	1.011	0.106	
2412	1	802.11b	DSSS	22	19.0	18.92	0.14	10 mm	2	1133M	1	left	98.9	0.017	-	1.019	1.011	-	
5775	155	802.11ac	OFDM	80	18.0	17.76	0.19	10 mm	1	1342M	29.3	back	92.4	0.141	-	1.057	1.082	-	
5775	155	802.11ac	OFDM	80	18.0	17.76	0.17	10 mm	1	1342M	29.3	front	92.4	0.150	-	1.057	1.082	-	
5775	155	802.11ac	OFDM	80	18.0	17.76	-0.13	10 mm	1	1342M	29.3	left	92.4	0.200	0.159	1.057	1.082	0.182	
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 11-71
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)			
2412	1	802.11b	DSSS	22	19.0	18.90	19.0	18.92	0.01	10 mm	MIMO	1133M	1	back	99.1	0.883	0.634	1.023	1.009	0.654	
2437	6	802.11b	DSSS	22	19.0	18.49	19.0	18.79	0.06	10 mm	MIMO	1133M	1	back	99.1	1.000	0.618	1.125	1.009	0.702	
2462	11	802.11b	DSSS	22	19.0	18.99	19.0	18.73	-0.08	10 mm	MIMO	1133M	1	back	99.1	1.280	0.870	1.064	1.009	0.934	A86
2412	1	802.11b	DSSS	22	19.0	18.90	19.0	18.92	-0.10	10 mm	MIMO	1133M	1	front	99.1	0.218	0.174	1.023	1.009	0.180	
2412	1	802.11b	DSSS	22	19.0	18.90	19.0	18.92	-0.17	10 mm	MIMO	1133M	1	top	99.1	0.167	0.125	1.023	1.009	0.129	
2412	1	802.11b	DSSS	22	19.0	18.90	19.0	18.92	0.00	10 mm	MIMO	1133M	1	left	99.1	0.484	0.387	1.023	1.009	0.399	
2462	11	802.11b	DSSS	22	19.0	18.99	19.0	18.73	0.01	10 mm	MIMO	1133M	1	back	99.1	1.280	0.870	1.064	1.009	0.934	
5775	155	802.11ac	OFDM	80	18.0	17.76	18.0	17.96	-0.09	10 mm	MIMO	1342M	58.5	back	91.7	0.334	0.258	1.057	1.091	0.298	A88
5775	155	802.11ac	OFDM	80	18.0	17.76	18.0	17.96	0.09	10 mm	MIMO	1342M	58.5	front	91.7	0.146	0.132	1.057	1.091	0.152	
5775	155	802.11ac	OFDM	80	18.0	17.76	18.0	17.96	0.15	10 mm	MIMO	1342M	58.5	top	91.7	0.053	0.035	1.057	1.091	0.040	
5775	155	802.11ac	OFDM	80	18.0	17.76	18.0	17.96	-0.18	10 mm	MIMO	1342M	58.5	left	91.7	0.216	0.167	1.057	1.091	0.193	
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: 1)Blue entry represents variability measurement. 2)For 2.4 GHz WLAN, to achieve the 22 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 19 dBm. 3)For 5 GHz WLAN, to achieve the 21 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 18 dBm.

Table 11-72
DTS Hotspot SISO SAR during Conditions with 5 GHz WLAN and/or 5G NR

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	15.0	14.84	0.06	10 mm	2	1350M	1	back	98.9	0.100	0.070	1.038	1.011	0.073	
2437	6	802.11b	DSSS	22	15.0	14.84	0.13	10 mm	2	1350M	1	front	98.9	0.007	-	1.038	1.011	-	
2437	6	802.11b	DSSS	22	15.0	14.84	-0.16	10 mm	2	1350M	1	top	98.9	0.021	-	1.038	1.011	-	
2437	6	802.11b	DSSS	22	15.0	14.84	-0.18	10 mm	2	1350M	1	left	98.9	0.002	-	1.038	1.011	-	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population								Body 1.6 W/kg (mW/g) averaged over 1 gram											

Note: 2.4 GHz SISO was additionally evaluated at the maximum allowed output power during simultaneous operations with 5 GHz WLAN, or 5G NR. 5 GHz WIFI or 5G NR was not transmitting during the above evaluations.

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Table 11-73
WLAN MIMO Hotspot SAR for Conditions with 2.4 GHz/5 GHz WLAN and/or 5G NR

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)	
2412	1	802.11n	OFDM	20	15.0	14.61	15.0	14.73	0.11	10 mm	MIMO	1350M	13	back	91.3	0.177	0.123	1.094	1.095	0.147	
2412	1	802.11n	OFDM	20	15.0	14.61	15.0	14.73	0.21	10 mm	MIMO	1350M	13	front	91.3	0.053	-	1.094	1.095	-	
2412	1	802.11n	OFDM	20	15.0	14.61	15.0	14.73	-0.04	10 mm	MIMO	1350M	13	top	91.3	0.041	-	1.094	1.095	-	
2412	1	802.11n	OFDM	20	15.0	14.61	15.0	14.73	-0.07	10 mm	MIMO	1350M	13	left	91.3	0.091	-	1.094	1.095	-	
5775	155	802.11ac	OFDM	80	13.0	12.83	13.0	12.73	0.09	10 mm	MIMO	1342M	58.5	back	91.7	0.056	0.020	1.064	1.091	0.023	
5775	155	802.11ac	OFDM	80	13.0	12.83	13.0	12.73	-0.05	10 mm	MIMO	1342M	58.5	front	91.7	0.038	0.017	1.064	1.091	0.020	
5775	155	802.11ac	OFDM	80	13.0	12.83	13.0	12.73	0.12	10 mm	MIMO	1342M	58.5	top	91.7	0.000	-	1.064	1.091	-	
5775	155	802.11ac	OFDM	80	13.0	12.83	13.0	12.73	-0.18	10 mm	MIMO	1342M	58.5	left	91.7	0.049	-	1.064	1.091	-	
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: 1) 2.4 GHz MIMO was additionally evaluated at the maximum allowed output power during simultaneous operations with 5 GHz WLAN, or 5G NR. 5 GHz WIFI or 5G NR was not transmitting during the above evaluations. 2) 5 GHz MIMO was additionally evaluated at the maximum allowed output power during simultaneous operations with 2.4 GHz WLAN, or 5G NR. 2.4 GHz WIFI or 5G NR was not transmitting during the above evaluations.

Table 11-74
DSS Hotspot SAR

MEASUREMENT RESULTS																
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Spacing	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)	
2402	0	Bluetooth	FHSS	16.0	15.56	0.12	10 mm	0878M	1	back	77.60	0.030	1.107	1.289	0.043	
2402	0	Bluetooth	FHSS	16.0	15.56	0.20	10 mm	0878M	1	front	77.60	0.030	1.107	1.289	0.043	
2402	0	Bluetooth	FHSS	16.0	15.56	0.06	10 mm	0878M	1	top	77.60	0.003	1.107	1.289	0.004	
2402	0	Bluetooth	FHSS	16.0	15.56	0.03	10 mm	0878M	1	left	77.60	0.047	1.107	1.289	0.067	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									

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11.4 Standalone Phablet SAR Data

Table 11-75
GPRS/UMTS Phablet SAR Data

MEASUREMENT RESULTS																
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Tune State	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)	
1909.80	810	GSM 1900	GPRS	27.5	26.13	N/A	-0.01	8 mm	0300M	3	1:2.76	back	0.575	1.371	0.788	
1909.80	810	GSM 1900	GPRS	27.5	26.13	N/A	0.17	6 mm	0300M	3	1:2.76	front	0.634	1.371	0.869	
1909.80	810	GSM 1900	GPRS	27.5	26.13	N/A	-0.03	11 mm	0300M	3	1:2.76	bottom	0.701	1.371	0.961	
1909.80	810	GSM 1900	GPRS	27.5	26.13	N/A	0.02	0 mm	0300M	3	1:2.76	right	0.203	1.371	0.278	
1909.80	810	GSM 1900	GPRS	27.5	26.13	N/A	-0.03	0 mm	0300M	3	1:2.76	left	0.528	1.371	0.724	
1909.80	810	GSM 1900	GPRS	22.5	21.75	N/A	0.18	0 mm	0300M	4	1:2.076	back	1.260	1.189	1.498	A91
1909.80	810	GSM 1900	GPRS	22.5	21.75	N/A	-0.06	0 mm	0300M	4	1:2.076	front	0.834	1.189	0.992	
1909.80	810	GSM 1900	GPRS	22.5	21.75	N/A	-0.18	0 mm	0300M	4	1:2.076	bottom	0.765	1.189	0.910	
1712.40	1312	UMTS 1750	RMC	24.0	23.29	14	0.01	8 mm	0553M	N/A	1:1	back	0.913	1.178	1.076	
1712.40	1312	UMTS 1750	RMC	24.0	23.29	14	0.01	6 mm	0553M	N/A	1:1	front	0.906	1.178	1.067	
1712.40	1312	UMTS 1750	RMC	24.0	23.29	14	0.01	11 mm	0553M	N/A	1:1	bottom	1.050	1.178	1.237	
1712.40	1312	UMTS 1750	RMC	24.0	23.29	14	-0.05	0 mm	0553M	N/A	1:1	right	0.356	1.178	0.419	
1712.40	1312	UMTS 1750	RMC	24.0	23.29	14	0.02	0 mm	0553M	N/A	1:1	left	0.833	1.178	0.981	
1712.40	1312	UMTS 1750	RMC	21.0	20.41	14	0.03	0 mm	0553M	N/A	1:1	back	1.800	1.146	2.063	
1732.40	1412	UMTS 1750	RMC	21.0	20.21	14	0.01	0 mm	0553M	N/A	1:1	back	2.060	1.199	2.470	A92
1752.60	1513	UMTS 1750	RMC	21.0	20.11	14	0.03	0 mm	0553M	N/A	1:1	back	1.890	1.227	2.319	
1712.40	1312	UMTS 1750	RMC	21.0	20.41	14	0.01	0 mm	0553M	N/A	1:1	front	1.470	1.146	1.685	
1712.40	1312	UMTS 1750	RMC	21.0	20.41	14	-0.03	0 mm	0553M	N/A	1:1	bottom	1.650	1.146	1.891	
1907.60	9538	UMTS 1900	RMC	24.7	23.79	0	-0.04	8 mm	0586M	N/A	1:1	back	0.974	1.233	1.201	
1907.60	9538	UMTS 1900	RMC	24.7	23.79	0	0.03	6 mm	0586M	N/A	1:1	front	1.330	1.233	1.640	
1907.60	9538	UMTS 1900	RMC	24.7	23.79	0	-0.02	11 mm	0586M	N/A	1:1	bottom	1.300	1.233	1.603	
1907.60	9538	UMTS 1900	RMC	24.7	23.79	0	0.06	0 mm	0586M	N/A	1:1	right	0.403	1.233	0.497	
1907.60	9538	UMTS 1900	RMC	24.7	23.79	0	-0.04	0 mm	0586M	N/A	1:1	left	0.792	1.233	0.977	
1852.40	9262	UMTS 1900	RMC	20.0	19.32	0	-0.08	0 mm	0586M	N/A	1:1	back	1.090	1.169	1.274	
1852.40	9262	UMTS 1900	RMC	20.0	19.32	0	-0.04	0 mm	0586M	N/A	1:1	front	0.847	1.169	0.990	
1852.40	9262	UMTS 1900	RMC	20.0	19.32	0	-0.14	0 mm	0586M	N/A	1:1	bottom	1.500	1.169	1.754	A93
1880.00	9400	UMTS 1900	RMC	20.0	19.29	0	-0.02	0 mm	0586M	N/A	1:1	bottom	1.350	1.178	1.590	
1907.60	9538	UMTS 1900	RMC	20.0	19.27	0	0.17	0 mm	0586M	N/A	1:1	bottom	1.400	1.183	1.656	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population								Phablet 4.0 W/kg (mW/g) averaged over 10 grams								

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Table 11-76
LTE Band 66 (AWS) Phablet SAR

MEASUREMENT RESULTS																						
1 CC Uplink 2 CC Uplink	Component Carrier	FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Tune State	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	1770.00	132572	High	LTE Band 66 (AWS)	20	24.5	23.93	18	0.05	0	0427M	QPSK	1	0	8 mm	back	1:1	1.060	1.140	1.208	
1 CC Uplink	N/A	1770.00	132572	High	LTE Band 66 (AWS)	20	23.5	22.95	18	0.03	1	0427M	QPSK	50	50	8 mm	back	1:1	0.853	1.135	0.968	
1 CC Uplink	N/A	1770.00	132572	High	LTE Band 66 (AWS)	20	24.5	23.93	18	0.00	0	0427M	QPSK	1	0	6 mm	front	1:1	1.160	1.140	1.322	
1 CC Uplink	N/A	1770.00	132572	High	LTE Band 66 (AWS)	20	23.5	22.95	18	0.03	1	0427M	QPSK	50	50	6 mm	front	1:1	0.849	1.135	0.964	
1 CC Uplink	N/A	1770.00	132572	High	LTE Band 66 (AWS)	20	24.5	23.93	18	-0.01	0	0427M	QPSK	1	0	11 mm	bottom	1:1	1.250	1.140	1.425	
1 CC Uplink	N/A	1770.00	132572	High	LTE Band 66 (AWS)	20	23.5	22.95	18	-0.06	1	0427M	QPSK	50	50	11 mm	bottom	1:1	0.960	1.135	1.090	
1 CC Uplink	N/A	1770.00	132572	High	LTE Band 66 (AWS)	20	24.5	23.93	18	-0.12	0	0427M	QPSK	1	0	0 mm	right	1:1	0.391	1.140	0.446	
1 CC Uplink	N/A	1770.00	132572	High	LTE Band 66 (AWS)	20	23.5	22.95	18	0.04	1	0427M	QPSK	50	50	0 mm	right	1:1	0.309	1.135	0.351	
1 CC Uplink	N/A	1770.00	132572	High	LTE Band 66 (AWS)	20	24.5	23.93	18	0.07	0	0427M	QPSK	1	0	0 mm	left	1:1	0.804	1.140	0.917	
1 CC Uplink	N/A	1770.00	132572	High	LTE Band 66 (AWS)	20	23.5	22.95	18	0.05	1	0427M	QPSK	50	50	0 mm	left	1:1	0.639	1.135	0.725	
1 CC Uplink	N/A	1770.00	132572	High	LTE Band 66 (AWS)	20	20.0	19.13	18	0.02	0	0427M	QPSK	1	50	0 mm	back	1:1	1.160	1.222	1.418	
1 CC Uplink	N/A	1770.00	132572	High	LTE Band 66 (AWS)	20	20.0	18.97	18	0.07	0	0427M	QPSK	50	50	0 mm	back	1:1	1.150	1.268	1.458	
1 CC Uplink	N/A	1770.00	132572	High	LTE Band 66 (AWS)	20	20.0	19.13	18	-0.01	0	0427M	QPSK	1	50	0 mm	front	1:1	1.210	1.222	1.479	
1 CC Uplink	N/A	1770.00	132572	High	LTE Band 66 (AWS)	20	20.0	18.97	18	0.01	0	0427M	QPSK	50	50	0 mm	front	1:1	1.210	1.268	1.534	
1 CC Uplink	N/A	1770.00	132572	High	LTE Band 66 (AWS)	20	20.0	19.13	18	0.03	0	0427M	QPSK	1	50	0 mm	bottom	1:1	1.240	1.222	1.515	
1 CC Uplink	N/A	1720.00	132072	Low	LTE Band 66 (AWS)	20	20.0	18.78	18	0.05	0	0427M	QPSK	50	25	0 mm	bottom	1:1	1.240	1.324	1.642	
1 CC Uplink	N/A	1745.00	132322	Mid	LTE Band 66 (AWS)	20	20.0	18.84	18	0.09	0	0427M	QPSK	50	0	0 mm	bottom	1:1	1.270	1.306	1.659	
1 CC Uplink	N/A	1745.00	132322	Mid	LTE Band 66 (AWS)	20	20.0	18.95	18	0.02	0	0427M	QPSK	50	25	0 mm	bottom	1:1	1.320	1.274	1.682	A94
1 CC Uplink	N/A	1770.00	132572	High	LTE Band 66 (AWS)	20	20.0	18.97	18	0.01	0	0427M	QPSK	50	50	0 mm	bottom	1:1	1.210	1.268	1.534	
1 CC Uplink	N/A	1745.00	132322	Mid	LTE Band 66 (AWS)	10	20.0	18.95	18	-0.09	0	0427M	QPSK	25	0	0 mm	bottom	1:1	1.290	1.274	1.643	
2 CC Uplink CA_66C	PCC	1745.00	132322	Mid	LTE Band 66 (AWS)	20	20.0	18.46	18	0.12	0	0427M	QPSK	50	0	0 mm	bottom	1:1	1.220	1.426	1.740	
	SCC	1725.20	132124											50	50							
2 CC Uplink CA_66B	PCC	1745.00	132322	Mid	LTE Band 66 (AWS)	10	20.0	18.51	18	0.14	0	0427M	QPSK	25	0	0 mm	bottom	1:1	1.210	1.409	1.705	
	SCC	1735.10	132223											25	25							
ANSI / IEEE C95.1 1992 - SAFETY LIMIT																						
Spatial PeAK										Phablet												
Uncontrolled Exposure/General Population										4.0 W/kg (mW/g) averaged over 10 grams												

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Table 11-77
LTE Band 25 (PCS) Phablet SAR

MEASUREMENT RESULTS																				
FREQUENCY			Mode	Bandwidth [MHz]	Maxim um Allowed Power [dBm]	Conducted Power [dBm]	Tune State	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	24.7	23.77	0	0.03	0	0586M	QPSK	1	0	8 mm	back	1:1	1.070	1.239	1.326	
1860.00	26140	Low	LTE Band 25 (PCS)	20	23.7	22.77	0	-0.02	1	0586M	QPSK	50	0	8 mm	back	1:1	0.854	1.239	1.058	
1860.00	26140	Low	LTE Band 25 (PCS)	20	24.7	23.77	0	-0.01	0	0586M	QPSK	1	0	6 mm	front	1:1	1.110	1.239	1.375	
1860.00	26140	Low	LTE Band 25 (PCS)	20	23.7	22.77	0	0.04	1	0586M	QPSK	50	0	6 mm	front	1:1	0.859	1.239	1.064	
1860.00	26140	Low	LTE Band 25 (PCS)	20	24.7	23.77	0	0.00	0	0586M	QPSK	1	0	11 mm	bottom	1:1	1.210	1.239	1.499	
1860.00	26140	Low	LTE Band 25 (PCS)	20	23.7	22.77	0	0.01	1	0586M	QPSK	50	0	11 mm	bottom	1:1	0.962	1.239	1.192	
1860.00	26140	Low	LTE Band 25 (PCS)	20	24.7	23.77	0	-0.02	0	0586M	QPSK	1	0	0 mm	right	1:1	0.396	1.239	0.491	
1860.00	26140	Low	LTE Band 25 (PCS)	20	23.7	22.77	0	0.03	1	0586M	QPSK	50	0	0 mm	right	1:1	0.310	1.239	0.384	
1860.00	26140	Low	LTE Band 25 (PCS)	20	24.7	23.77	0	-0.04	0	0586M	QPSK	1	0	0 mm	left	1:1	1.010	1.239	1.251	
1860.00	26140	Low	LTE Band 25 (PCS)	20	23.7	22.77	0	-0.01	1	0586M	QPSK	50	0	0 mm	left	1:1	0.781	1.239	0.968	
1860.00	26140	Low	LTE Band 25 (PCS)	20	20.5	19.60	0	0.10	0	0586M	QPSK	1	0	0 mm	back	1:1	1.390	1.230	1.710	
1860.00	26140	Low	LTE Band 25 (PCS)	20	20.5	19.46	0	0.07	0	0586M	QPSK	50	0	0 mm	back	1:1	1.400	1.271	1.779	
1860.00	26140	Low	LTE Band 25 (PCS)	20	20.5	19.60	0	0.01	0	0586M	QPSK	1	0	0 mm	front	1:1	1.170	1.230	1.439	
1860.00	26140	Low	LTE Band 25 (PCS)	20	20.5	19.46	0	-0.03	0	0586M	QPSK	50	0	0 mm	front	1:1	1.160	1.271	1.474	
1860.00	26140	Low	LTE Band 25 (PCS)	20	20.5	19.60	0	0.17	0	0586M	QPSK	1	0	0 mm	bottom	1:1	1.570	1.230	1.931	A95
1882.50	26365	Mid	LTE Band 25 (PCS)	20	20.5	19.36	0	-0.16	0	0586M	QPSK	1	0	0 mm	bottom	1:1	1.380	1.300	1.794	
1905.00	26590	High	LTE Band 25 (PCS)	20	20.5	19.43	0	0.01	0	0586M	QPSK	1	0	0 mm	bottom	1:1	1.540	1.279	1.970	
1860.00	26140	Low	LTE Band 25 (PCS)	20	20.5	19.46	0	0.02	0	0586M	QPSK	50	0	0 mm	bottom	1:1	1.520	1.271	1.932	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	20.5	19.31	0	0.16	0	0586M	QPSK	50	25	0 mm	bottom	1:1	1.480	1.315	1.946	
1905.00	26590	High	LTE Band 25 (PCS)	20	20.5	19.33	0	0.16	0	0586M	QPSK	50	50	0 mm	bottom	1:1	1.570	1.309	2.055	
1860.00	26140	Low	LTE Band 25 (PCS)	20	20.5	19.37	0	-0.02	0	0586M	QPSK	100	0	0 mm	bottom	1:1	1.460	1.297	1.894	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial PeAK Uncontrolled Exposure/General Population										Phablet 4.0 W/kg (mW/g) averaged over 10 grams										

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Table 11-78
LTE Band 30 Phablet SAR

MEASUREMENT RESULTS																				
FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	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	23.5	22.44	0.04	0	A	0577M	QPSK	1	25	8 mm	back	1:1	0.411	1.276	0.524	
2310.00	27710	Mid	LTE Band 30	10	22.5	21.35	-0.01	1	A	0577M	QPSK	25	12	8 mm	back	1:1	0.308	1.303	0.401	
2310.00	27710	Mid	LTE Band 30	10	23.5	22.44	0.10	0	A	0577M	QPSK	1	25	6 mm	front	1:1	0.532	1.276	0.679	
2310.00	27710	Mid	LTE Band 30	10	22.5	21.35	-0.10	1	A	0577M	QPSK	25	12	6 mm	front	1:1	0.411	1.303	0.536	
2310.00	27710	Mid	LTE Band 30	10	23.5	22.44	-0.12	0	A	0577M	QPSK	1	25	11 mm	bottom	1:1	0.535	1.276	0.683	
2310.00	27710	Mid	LTE Band 30	10	22.5	21.35	-0.03	1	A	0577M	QPSK	25	12	11 mm	bottom	1:1	0.421	1.303	0.549	
2310.00	27710	Mid	LTE Band 30	10	23.5	22.44	0.05	0	A	0577M	QPSK	1	25	0 mm	right	1:1	0.141	1.276	0.180	
2310.00	27710	Mid	LTE Band 30	10	22.5	21.35	-0.07	1	A	0577M	QPSK	25	12	0 mm	right	1:1	0.109	1.303	0.142	
2310.00	27710	Mid	LTE Band 30	10	23.5	22.44	0.01	0	A	0577M	QPSK	1	25	0 mm	left	1:1	1.220	1.276	1.557	
2310.00	27710	Mid	LTE Band 30	10	22.5	21.35	-0.05	1	A	0577M	QPSK	25	12	0 mm	left	1:1	0.948	1.303	1.235	
2310.00	27710	Mid	LTE Band 30	10	21.0	20.14	0.02	0	A	0577M	QPSK	1	25	0 mm	back	1:1	2.260	1.219	2.755	A96
2310.00	27710	Mid	LTE Band 30	10	21.0	19.96	-0.01	0	A	0577M	QPSK	25	12	0 mm	back	1:1	2.160	1.271	2.745	
2310.00	27710	Mid	LTE Band 30	10	21.0	19.88	0.04	0	A	0577M	QPSK	50	0	0 mm	back	1:1	2.160	1.294	2.795	
2310.00	27710	Mid	LTE Band 30	10	21.0	20.14	0.02	0	A	0577M	QPSK	1	25	0 mm	front	1:1	0.910	1.219	1.109	
2310.00	27710	Mid	LTE Band 30	10	21.0	19.96	-0.04	0	A	0577M	QPSK	25	12	0 mm	front	1:1	0.846	1.271	1.075	
2310.00	27710	Mid	LTE Band 30	10	21.0	20.14	-0.02	0	A	0577M	QPSK	1	25	0 mm	bottom	1:1	1.120	1.219	1.365	
2310.00	27710	Mid	LTE Band 30	10	21.0	19.96	0.06	0	A	0577M	QPSK	25	12	0 mm	bottom	1:1	1.040	1.271	1.322	
2310.00	27710	Mid	LTE Band 30	10	23.5	22.67	-0.05	0	B	0997M	QPSK	1	25	8 mm	back	1:1	0.157	1.211	0.190	
2310.00	27710	Mid	LTE Band 30	10	22.5	21.58	-0.01	1	B	0997M	QPSK	25	12	8 mm	back	1:1	0.122	1.236	0.151	
2310.00	27710	Mid	LTE Band 30	10	23.5	22.67	0.03	0	B	0997M	QPSK	1	25	6 mm	front	1:1	0.170	1.211	0.206	
2310.00	27710	Mid	LTE Band 30	10	22.5	21.58	0.00	1	B	0997M	QPSK	25	12	6 mm	front	1:1	0.134	1.236	0.166	
2310.00	27710	Mid	LTE Band 30	10	23.5	22.67	-0.02	0	B	0997M	QPSK	1	25	11 mm	bottom	1:1	0.160	1.211	0.194	
2310.00	27710	Mid	LTE Band 30	10	22.5	21.58	0.00	1	B	0997M	QPSK	25	12	11 mm	bottom	1:1	0.127	1.236	0.157	
2310.00	27710	Mid	LTE Band 30	10	23.5	22.67	0.07	0	B	0997M	QPSK	1	25	0 mm	left	1:1	1.230	1.211	1.490	
2310.00	27710	Mid	LTE Band 30	10	22.5	21.58	0.01	1	B	0997M	QPSK	25	12	0 mm	left	1:1	0.914	1.236	1.130	
2310.00	27710	Mid	LTE Band 30	10	21.0	20.30	-0.02	0	B	0997M	QPSK	1	0	0 mm	back	1:1	1.120	1.175	1.316	
2310.00	27710	Mid	LTE Band 30	10	21.0	20.13	0.01	0	B	0997M	QPSK	25	0	0 mm	back	1:1	1.090	1.222	1.332	
2310.00	27710	Mid	LTE Band 30	10	21.0	20.30	0.03	0	B	0997M	QPSK	1	0	0 mm	front	1:1	0.674	1.175	0.792	
2310.00	27710	Mid	LTE Band 30	10	21.0	20.13	0.00	0	B	0997M	QPSK	25	0	0 mm	front	1:1	0.656	1.222	0.802	
2310.00	27710	Mid	LTE Band 30	10	21.0	20.30	0.06	0	B	0997M	QPSK	1	0	0 mm	bottom	1:1	0.974	1.175	1.144	
2310.00	27710	Mid	LTE Band 30	10	21.0	20.13	0.16	0	B	0997M	QPSK	25	0	0 mm	bottom	1:1	0.987	1.222	1.206	
2310.00	27710	Mid	LTE Band 30	10	21.0	20.14	-0.17	0	A	0577M	QPSK	1	25	0 mm	back	1:1	2.220	1.219	2.706	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT								Phablet												
Spatial PeAK								4.0 W/kg (mW/g)												
Uncontrolled Exposure/General Population								averaged over 10 grams												

Note: Blue entry represents variability measurement.

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Table 11-79
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	23.02	0.00	0	0570M	QPSK	1	99	8 mm	back	1:1	0.327	1.253	0.410	
2560.00	21350	High	LTE Band 7	20	23.0	21.85	0.02	1	0570M	QPSK	50	50	8 mm	back	1:1	0.257	1.303	0.335	
2560.00	21350	High	LTE Band 7	20	24.0	23.02	-0.03	0	0570M	QPSK	1	99	6 mm	front	1:1	0.390	1.253	0.489	
2560.00	21350	High	LTE Band 7	20	23.0	21.85	0.03	1	0570M	QPSK	50	50	6 mm	front	1:1	0.309	1.303	0.403	
2560.00	21350	High	LTE Band 7	20	24.0	23.02	-0.03	0	0570M	QPSK	1	99	11 mm	bottom	1:1	0.335	1.253	0.420	
2560.00	21350	High	LTE Band 7	20	23.0	21.85	-0.03	1	0570M	QPSK	50	50	11 mm	bottom	1:1	0.262	1.303	0.341	
2510.00	20850	Low	LTE Band 7	20	24.0	22.80	0.03	0	0570M	QPSK	1	50	0 mm	left	1:1	1.630	1.318	2.148	
2535.00	21100	Mid	LTE Band 7	20	24.0	23.01	0.02	0	0570M	QPSK	1	50	0 mm	left	1:1	1.730	1.256	2.173	
2560.00	21350	High	LTE Band 7	20	24.0	23.02	0.06	0	0570M	QPSK	1	99	0 mm	left	1:1	1.820	1.253	2.280	A97
2560.00	21350	High	LTE Band 7	20	23.0	21.85	0.02	1	0570M	QPSK	50	50	0 mm	left	1:1	1.400	1.303	1.824	
2560.00	21350	High	LTE Band 7	20	23.0	21.70	0.00	1	0570M	QPSK	100	0	0 mm	left	1:1	1.400	1.349	1.889	
2510.00	20850	Low	LTE Band 7	20	20.5	19.00	-0.01	0	0570M	QPSK	1	0	0 mm	back	1:1	1.640	1.413	2.317	
2535.00	21100	Mid	LTE Band 7	20	20.5	19.26	0.00	0	0570M	QPSK	1	99	0 mm	back	1:1	1.650	1.330	2.195	
2560.00	21350	High	LTE Band 7	20	20.5	19.27	0.02	0	0570M	QPSK	1	0	0 mm	back	1:1	1.680	1.327	2.229	
2510.00	20850	Low	LTE Band 7	20	20.5	18.94	-0.01	0	0570M	QPSK	50	25	0 mm	back	1:1	1.660	1.432	2.377	
2535.00	21100	Mid	LTE Band 7	20	20.5	18.95	-0.02	0	0570M	QPSK	50	50	0 mm	back	1:1	1.650	1.429	2.358	
2560.00	21350	High	LTE Band 7	20	20.5	19.01	0.02	0	0570M	QPSK	50	25	0 mm	back	1:1	1.710	1.409	2.409	
2560.00	21350	High	LTE Band 7	20	20.5	18.83	0.02	0	0570M	QPSK	100	0	0 mm	back	1:1	1.680	1.468	2.466	
2560.00	21350	High	LTE Band 7	20	20.5	19.27	-0.02	0	0570M	QPSK	1	0	0 mm	front	1:1	1.080	1.327	1.433	
2560.00	21350	High	LTE Band 7	20	20.5	19.01	-0.05	0	0570M	QPSK	50	25	0 mm	front	1:1	1.090	1.409	1.536	
2560.00	21350	High	LTE Band 7	20	20.5	19.27	-0.04	0	0570M	QPSK	1	0	0 mm	bottom	1:1	1.030	1.327	1.367	
2560.00	21350	High	LTE Band 7	20	20.5	19.01	0.01	0	0570M	QPSK	50	25	0 mm	bottom	1:1	1.050	1.409	1.479	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT								Phablet											
Spatial PeAK								4.0 W/kg (mW/g)											
Uncontrolled Exposure/General Population								averaged over 10 grams											

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Table 11-80
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	2593.00	40620	Mid	LTE Band 41	20	25.0	24.06	-0.14	0	0421M	QPSK	1	50	8 mm	back	1:1.58	0.318	1.242	0.395	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	24.0	23.01	-0.01	1	0421M	QPSK	50	25	8 mm	back	1:1.58	0.265	1.256	0.333	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	25.0	24.06	-0.10	0	0421M	QPSK	1	50	6 mm	front	1:1.58	0.277	1.242	0.344	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	24.0	23.01	0.00	1	0421M	QPSK	50	25	6 mm	front	1:1.58	0.225	1.256	0.283	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	25.0	24.06	0.01	0	0421M	QPSK	1	50	11 mm	bottom	1:1.58	0.193	1.242	0.240	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	24.0	23.01	-0.06	1	0421M	QPSK	50	25	11 mm	bottom	1:1.58	0.148	1.256	0.186	
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	LTE Band 41	20	25.0	23.59	0.01	0	0421M	QPSK	1	99	0 mm	left	1:1.58	1.580	1.384	2.187	
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	LTE Band 41	20	25.0	24.01	0.08	0	0421M	QPSK	1	50	0 mm	left	1:1.58	1.590	1.256	1.997	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	25.0	24.06	0.07	0	0421M	QPSK	1	50	0 mm	left	1:1.58	1.380	1.242	1.714	
1 CC Uplink - Power Class 3	N/A	2636.50	41055	Mid-High	LTE Band 41	20	25.0	23.98	-0.02	0	0421M	QPSK	1	50	0 mm	left	1:1.58	1.320	1.265	1.670	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	25.0	23.79	0.18	0	0421M	QPSK	1	50	0 mm	left	1:1.58	1.140	1.321	1.506	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	24.0	23.01	0.00	1	0421M	QPSK	50	25	0 mm	left	1:1.58	1.110	1.256	1.394	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	24.0	22.90	0.00	1	0421M	QPSK	100	0	0 mm	left	1:1.58	1.080	1.288	1.391	
1 CC Uplink - Power Class 2	N/A	2506.00	39750	Low	LTE Band 41	20	26.7	25.46	0.03	0	0421M	QPSK	1	99	0 mm	left	1:2.31	1.500	1.330	1.995	
2 CC Uplink - Power Class 3	PCC	2506.00	39750	Low	LTE Band 41	20	25.0	23.80	0.01	0	0421M	QPSK	1	99	0 mm	left	1:1.58	1.640	1.318	2.162	A98
	SCC	2525.80	39948											0							
2 CC Uplink - Power Class 2	PCC	2506.00	39750	Low	LTE Band 41	20	26.7	25.48	0.02	0	0421M	QPSK	1	99	0 mm	left	1:2.31	1.580	1.324	2.092	
	SCC	2525.80	39948											0							
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	LTE Band 41	20	22.0	20.83	0.00	0	0421M	QPSK	1	99	0 mm	back	1:1.58	1.350	1.309	1.767	
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	LTE Band 41	20	22.0	20.98	0.08	0	0421M	QPSK	1	50	0 mm	back	1:1.58	1.410	1.265	1.784	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	22.0	21.01	0.08	0	0421M	QPSK	1	50	0 mm	back	1:1.58	1.430	1.256	1.796	
1 CC Uplink - Power Class 3	N/A	2636.50	41055	Mid-High	LTE Band 41	20	22.0	20.75	-0.05	0	0421M	QPSK	1	50	0 mm	back	1:1.58	1.200	1.334	1.601	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	22.0	20.70	-0.04	0	0421M	QPSK	1	50	0 mm	back	1:1.58	1.130	1.349	1.524	
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	LTE Band 41	20	22.0	20.84	0.04	0	0421M	QPSK	50	25	0 mm	back	1:1.58	1.350	1.306	1.763	
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	LTE Band 41	20	22.0	20.91	0.09	0	0421M	QPSK	50	50	0 mm	back	1:1.58	1.390	1.285	1.786	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	22.0	20.96	0.00	0	0421M	QPSK	50	25	0 mm	back	1:1.58	1.440	1.271	1.830	
1 CC Uplink - Power Class 3	N/A	2636.50	41055	Mid-High	LTE Band 41	20	22.0	20.73	0.07	0	0421M	QPSK	50	25	0 mm	back	1:1.58	1.190	1.340	1.595	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	22.0	20.65	-0.06	0	0421M	QPSK	50	50	0 mm	back	1:1.58	1.150	1.365	1.570	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	22.0	20.87	-0.02	0	0421M	QPSK	100	0	0 mm	back	1:1.58	1.390	1.297	1.803	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	22.0	21.01	0.06	0	0421M	QPSK	1	50	0 mm	front	1:1.58	0.908	1.256	1.140	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	22.0	20.96	0.03	0	0421M	QPSK	50	25	0 mm	front	1:1.58	0.911	1.271	1.158	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	22.0	21.01	0.06	0	0421M	QPSK	1	50	0 mm	bottom	1:1.58	1.090	1.256	1.369	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	22.0	20.96	0.03	0	0421M	QPSK	50	25	0 mm	bottom	1:1.58	1.090	1.271	1.385	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT																					
Spatial Peak										Phablet											
Uncontrolled Exposure/General Population										4.0 W/kg (mW/g)											
										averaged over 10 grams											

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Table 11-81
NR Band n66 Phablet SAR

MEASUREMENT RESULTS																						
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Antenna Config	Power Drift [dB]	MPR [dB]	Tune State	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	Mtd	NR Band n66 (AWS)	40	23.3	22.80	A	0.04	0	14	0274M	DFT-S-OFDM	QPSK	1	214	8 mm	back	1:1	0.940	1.122	1.055	
1745.00	349000	Mtd	NR Band n66 (AWS)	40	23.3	22.94	A	0.01	0	14	0274M	DFT-S-OFDM	QPSK	108	108	8 mm	back	1:1	1.000	1.086	1.086	
1745.00	349000	Mtd	NR Band n66 (AWS)	40	23.3	22.80	A	-0.07	0	14	0274M	DFT-S-OFDM	QPSK	1	214	6 mm	front	1:1	1.030	1.122	1.156	
1745.00	349000	Mtd	NR Band n66 (AWS)	40	23.3	22.94	A	-0.08	0	14	0274M	DFT-S-OFDM	QPSK	108	108	6 mm	front	1:1	1.070	1.086	1.162	
1745.00	349000	Mtd	NR Band n66 (AWS)	40	23.3	22.80	A	0.05	0	14	0274M	DFT-S-OFDM	QPSK	1	214	11 mm	bottom	1:1	1.010	1.122	1.133	
1745.00	349000	Mtd	NR Band n66 (AWS)	40	23.3	22.94	A	0.00	0	14	0274M	DFT-S-OFDM	QPSK	108	108	11 mm	bottom	1:1	0.988	1.086	1.073	
1745.00	349000	Mtd	NR Band n66 (AWS)	40	23.3	22.80	A	-0.12	0	14	0274M	DFT-S-OFDM	QPSK	1	214	0 mm	right	1:1	0.365	1.122	0.410	
1745.00	349000	Mtd	NR Band n66 (AWS)	40	23.3	22.94	A	-0.12	0	14	0274M	DFT-S-OFDM	QPSK	108	108	0 mm	right	1:1	0.378	1.086	0.411	
1745.00	349000	Mtd	NR Band n66 (AWS)	40	23.3	22.80	A	-0.13	0	14	0274M	DFT-S-OFDM	QPSK	1	214	0 mm	left	1:1	0.621	1.122	0.697	
1745.00	349000	Mtd	NR Band n66 (AWS)	40	23.3	22.94	A	-0.12	0	14	0274M	DFT-S-OFDM	QPSK	108	108	0 mm	left	1:1	0.600	1.086	0.652	
1745.00	349000	Mtd	NR Band n66 (AWS)	40	20.5	19.77	A	0.06	0	14	0274M	DFT-S-OFDM	QPSK	1	108	0 mm	back	1:1	1.670	1.183	1.976	
1745.00	349000	Mtd	NR Band n66 (AWS)	40	20.5	19.96	A	0.02	0	14	0274M	DFT-S-OFDM	QPSK	108	108	0 mm	back	1:1	1.770	1.132	2.004	
1745.00	349000	Mtd	NR Band n66 (AWS)	40	20.5	19.76	A	0.03	0	14	0274M	DFT-S-OFDM	QPSK	216	0	0 mm	back	1:1	1.800	1.186	2.135	
1745.00	349000	Mtd	NR Band n66 (AWS)	40	20.5	19.77	A	-0.06	0	14	0274M	DFT-S-OFDM	QPSK	1	108	0 mm	front	1:1	1.620	1.183	1.916	
1745.00	349000	Mtd	NR Band n66 (AWS)	40	20.5	19.96	A	-0.06	0	14	0274M	DFT-S-OFDM	QPSK	108	108	0 mm	front	1:1	1.700	1.132	1.924	
1745.00	349000	Mtd	NR Band n66 (AWS)	40	20.5	19.77	A	-0.21	0	14	0274M	DFT-S-OFDM	QPSK	1	108	0 mm	bottom	1:1	1.810	1.183	2.141	
1745.00	349000	Mtd	NR Band n66 (AWS)	40	20.5	19.96	A	-0.05	0	14	0274M	DFT-S-OFDM	QPSK	108	108	0 mm	bottom	1:1	1.840	1.132	2.083	
1745.00	349000	Mtd	NR Band n66 (AWS)	40	20.5	19.76	A	-0.14	0	14	0274M	DFT-S-OFDM	QPSK	216	0	0 mm	bottom	1:1	1.910	1.186	2.265	
1745.00	349000	Mtd	NR Band n66 (AWS)	40	20.5	19.99	A	-0.09	0	14	0274M	CP-OFDM	QPSK	1	1	0 mm	bottom	1:1	2.030	1.233	2.503	
1745.00	349000	Mtd	NR Band n66 (AWS)	40	21.0	20.22	F	0.07	0	N/A	1004M	DFT-S-OFDM	QPSK	1	214	0 mm	top	1:1	2.080	1.197	2.490	
1745.00	349000	Mtd	NR Band n66 (AWS)	40	21.0	20.38	F	0.02	0	N/A	1004M	DFT-S-OFDM	QPSK	108	108	0 mm	top	1:1	2.260	1.153	2.606	A69
1745.00	349000	Mtd	NR Band n66 (AWS)	40	21.0	20.21	F	0.09	0	N/A	1004M	DFT-S-OFDM	QPSK	216	0	0 mm	top	1:1	2.210	1.199	2.650	
1745.00	349000	Mtd	NR Band n66 (AWS)	40	21.0	20.14	F	0.02	0	N/A	1004M	CP-OFDM	QPSK	1	1	0 mm	top	1:1	2.110	1.219	2.572	
1745.00	349000	Mtd	NR Band n66 (AWS)	40	21.0	20.38	F	0.02	0	N/A	1004M	DFT-S-OFDM	QPSK	108	108	0 mm	top	1:1	2.260	1.153	2.606	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT								Extremity														
Spatial Peak								4.0 W/kg (mW/g)														
Uncontrolled Exposure/General Population								averaged over 10 grams														

Note: Blue entry represents variability measurement.

Table 11-82
NR Band n25 Phablet SAR

MEASUREMENT RESULTS																						
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Antenna Config	Power Drift [dB]	MPR [dB]	Tune State	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	24.7	23.76	A	-0.07	0	0	0303M	DFT-S-OFDM	QPSK	1	108	8 mm	back	1:1	1.100	1.242	1.366	
1882.50	376500	Mid	NR Band n25 (PCS)	40	24.7	24.11	A	-0.16	0	0	0303M	DFT-S-OFDM	QPSK	108	54	8 mm	back	1:1	1.030	1.146	1.180	
1882.50	376500	Mid	NR Band n25 (PCS)	40	24.7	23.76	A	-0.12	0	0	0303M	DFT-S-OFDM	QPSK	1	108	6 mm	front	1:1	1.330	1.242	1.652	
1882.50	376500	Mid	NR Band n25 (PCS)	40	24.7	24.11	A	-0.16	0	0	0303M	DFT-S-OFDM	QPSK	108	54	6 mm	front	1:1	1.240	1.146	1.421	
1882.50	376500	Mid	NR Band n25 (PCS)	40	24.7	23.76	A	-0.03	0	0	0303M	DFT-S-OFDM	QPSK	1	108	11 mm	bottom	1:1	1.570	1.242	1.950	
1882.50	376500	Mid	NR Band n25 (PCS)	40	24.7	24.11	A	-0.06	0	0	0303M	DFT-S-OFDM	QPSK	108	54	11 mm	bottom	1:1	1.520	1.146	1.742	
1882.50	376500	Mid	NR Band n25 (PCS)	40	24.7	23.76	A	-0.03	0	0	0303M	DFT-S-OFDM	QPSK	1	108	0 mm	right	1:1	0.440	1.242	0.546	
1882.50	376500	Mid	NR Band n25 (PCS)	40	24.7	24.11	A	0.00	0	0	0303M	DFT-S-OFDM	QPSK	108	54	0 mm	right	1:1	0.459	1.146	0.526	
1882.50	376500	Mid	NR Band n25 (PCS)	40	24.7	23.76	A	-0.12	0	0	0303M	DFT-S-OFDM	QPSK	1	108	0 mm	left	1:1	1.230	1.242	1.528	
1882.50	376500	Mid	NR Band n25 (PCS)	40	24.7	24.11	A	0.02	0	0	0303M	DFT-S-OFDM	QPSK	108	54	0 mm	left	1:1	1.170	1.146	1.341	
1882.50	376500	Mid	NR Band n25 (PCS)	40	20.0	19.90	A	0.12	0	0	0303M	DFT-S-OFDM	QPSK	1	108	0 mm	back	1:1	2.190	1.023	2.240	
1882.50	376500	Mid	NR Band n25 (PCS)	40	20.0	20.00	A	-0.02	0	0	0303M	DFT-S-OFDM	QPSK	108	54	0 mm	back	1:1	2.230	1.000	2.230	
1882.50	376500	Mid	NR Band n25 (PCS)	40	20.0	19.89	A	0.10	0	0	0303M	DFT-S-OFDM	QPSK	216	0	0 mm	back	1:1	2.250	1.026	2.309	
1882.50	376500	Mid	NR Band n25 (PCS)	40	20.0	19.90	A	-0.01	0	0	0303M	DFT-S-OFDM	QPSK	1	108	0 mm	front	1:1	1.460	1.023	1.494	
1882.50	376500	Mid	NR Band n25 (PCS)	40	20.0	20.00	A	-0.03	0	0	0303M	DFT-S-OFDM	QPSK	108	54	0 mm	front	1:1	1.510	1.000	1.510	
1882.50	376500	Mid	NR Band n25 (PCS)	40	20.0	19.90	A	-0.12	0	0	0303M	DFT-S-OFDM	QPSK	1	108	0 mm	bottom	1:1	2.210	1.023	2.261	
1882.50	376500	Mid	NR Band n25 (PCS)	40	20.0	20.00	A	-0.16	0	0	0303M	DFT-S-OFDM	QPSK	108	54	0 mm	bottom	1:1	2.300	1.000	2.300	
1882.50	376500	Mid	NR Band n25 (PCS)	40	20.0	19.89	A	-0.03	0	0	0303M	DFT-S-OFDM	QPSK	216	0	0 mm	bottom	1:1	2.340	1.026	2.401	A100
1882.50	376500	Mid	NR Band n25 (PCS)	40	20.0	19.86	A	0.00	0	0	0303M	CP-OFDM	QPSK	1	1	0 mm	bottom	1:1	2.330	1.033	2.407	
1882.50	376500	Mid	NR Band n25 (PCS)	40	20.0	19.89	A	-0.13	0	0	0303M	DFT-S-OFDM	QPSK	216	0	0 mm	bottom	1:1	2.340	1.026	2.401	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT								Extremity														
Spatial Peak								4.0 W/kg (mW/g)														
Uncontrolled Exposure/General Population								averaged over 10 grams														

Note: Blue entry represents variability measurement.

FCC ID: A3LSMS901U	 PCTEST Proud to be part of element	SAR EVALUATION REPORT		Approved by: Quality Manager
Document S/N: 1M2109080099-01.A3L (Rev2)	Test Dates: 09/12/21 - 11/08/21	DUT Type: Portable Handset		Page 155 of 183

Table 11-83
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	Md	NR Band n30	10	23.5	22.43	A	0.01	0	0292M	DFT-S-OFDM	QPSK	1	1	8 mm	back	1:1	0.513	1.279	0.656	
2310.00	462000	Md	NR Band n30	10	23.5	22.55	A	-0.09	0	0292M	DFT-S-OFDM	QPSK	25	14	8 mm	back	1:1	0.551	1.245	0.686	
2310.00	462000	Md	NR Band n30	10	23.5	22.43	A	0.01	0	0292M	DFT-S-OFDM	QPSK	1	1	6 mm	front	1:1	0.576	1.279	0.737	
2310.00	462000	Md	NR Band n30	10	23.5	22.55	A	0.05	0	0292M	DFT-S-OFDM	QPSK	25	14	6 mm	front	1:1	0.607	1.245	0.756	
2310.00	462000	Md	NR Band n30	10	23.5	22.43	A	-0.07	0	0292M	DFT-S-OFDM	QPSK	1	1	11 mm	bottom	1:1	0.665	1.279	0.851	
2310.00	462000	Md	NR Band n30	10	23.5	22.55	A	0.02	0	0292M	DFT-S-OFDM	QPSK	25	14	11 mm	bottom	1:1	0.642	1.245	0.799	
2310.00	462000	Md	NR Band n30	10	23.5	22.43	A	0.04	0	0292M	DFT-S-OFDM	QPSK	1	1	0 mm	right	1:1	0.193	1.279	0.247	
2310.00	462000	Md	NR Band n30	10	23.5	22.55	A	0.00	0	0292M	DFT-S-OFDM	QPSK	25	14	0 mm	right	1:1	0.203	1.245	0.253	
2310.00	462000	Md	NR Band n30	10	23.5	22.43	A	0.01	0	0292M	DFT-S-OFDM	QPSK	1	1	0 mm	left	1:1	1.750	1.279	2.238	
2310.00	462000	Md	NR Band n30	10	23.5	22.55	A	-0.06	0	0292M	DFT-S-OFDM	QPSK	25	14	0 mm	left	1:1	1.730	1.245	2.154	
2310.00	462000	Md	NR Band n30	10	22.5	21.55	A	0.05	1	0292M	DFT-S-OFDM	QPSK	50	0	0 mm	left	1:1	1.610	1.245	2.004	
2310.00	462000	Md	NR Band n30	10	19.5	18.43	A	-0.19	0	0292M	DFT-S-OFDM	QPSK	1	26	0 mm	back	1:1	1.920	1.279	2.456	
2310.00	462000	Md	NR Band n30	10	19.5	18.50	A	-0.10	0	0292M	DFT-S-OFDM	QPSK	25	14	0 mm	back	1:1	1.860	1.259	2.342	
2310.00	462000	Md	NR Band n30	10	19.5	18.42	A	-0.04	0	0292M	DFT-S-OFDM	QPSK	50	0	0 mm	back	1:1	1.800	1.282	2.308	
2310.00	462000	Md	NR Band n30	10	19.5	18.38	A	0.00	0	0292M	CP-OFDM	QPSK	1	1	0 mm	back	1:1	2.250	1.294	2.912	A101
2310.00	462000	Md	NR Band n30	10	19.5	18.43	A	-0.01	0	0292M	DFT-S-OFDM	QPSK	1	26	0 mm	front	1:1	0.879	1.279	1.124	
2310.00	462000	Md	NR Band n30	10	19.5	18.50	A	-0.03	0	0292M	DFT-S-OFDM	QPSK	25	14	0 mm	front	1:1	0.888	1.259	1.118	
2310.00	462000	Md	NR Band n30	10	19.5	18.43	A	0.01	0	0292M	DFT-S-OFDM	QPSK	1	26	0 mm	bottom	1:1	0.900	1.279	1.151	
2310.00	462000	Md	NR Band n30	10	19.5	18.50	A	0.06	0	0292M	DFT-S-OFDM	QPSK	25	14	0 mm	bottom	1:1	0.915	1.259	1.152	
2310.00	462000	Md	NR Band n30	10	23.5	23.35	B	-0.03	0	0997M	DFT-S-OFDM	QPSK	1	1	8 mm	back	1:1	0.386	1.035	0.400	
2310.00	462000	Md	NR Band n30	10	23.5	22.88	B	0.04	0	0997M	DFT-S-OFDM	QPSK	25	14	8 mm	back	1:1	0.384	1.153	0.443	
2310.00	462000	Md	NR Band n30	10	23.5	23.35	B	0.00	0	0997M	DFT-S-OFDM	QPSK	1	1	6 mm	front	1:1	0.420	1.035	0.435	
2310.00	462000	Md	NR Band n30	10	23.5	22.88	B	0.00	0	0997M	DFT-S-OFDM	QPSK	25	14	6 mm	front	1:1	0.415	1.153	0.478	
2310.00	462000	Md	NR Band n30	10	23.5	23.35	B	-0.05	0	0997M	DFT-S-OFDM	QPSK	1	1	11 mm	bottom	1:1	0.530	1.035	0.549	
2310.00	462000	Md	NR Band n30	10	23.5	22.88	B	-0.03	0	0997M	DFT-S-OFDM	QPSK	25	14	11 mm	bottom	1:1	0.553	1.153	0.638	
2310.00	462000	Md	NR Band n30	10	23.5	23.35	B	0.15	0	0997M	DFT-S-OFDM	QPSK	1	1	0 mm	left	1:1	1.040	1.035	1.076	
2310.00	462000	Md	NR Band n30	10	23.5	22.88	B	0.15	0	0997M	DFT-S-OFDM	QPSK	25	14	0 mm	left	1:1	1.070	1.153	1.234	
2310.00	462000	Md	NR Band n30	10	19.5	19.10	B	-0.02	0	0997M	DFT-S-OFDM	QPSK	1	26	0 mm	back	1:1	1.250	1.096	1.370	
2310.00	462000	Md	NR Band n30	10	19.5	19.15	B	0.01	0	0997M	DFT-S-OFDM	QPSK	25	14	0 mm	back	1:1	1.330	1.084	1.442	
2310.00	462000	Md	NR Band n30	10	19.5	19.03	B	0.08	0	0997M	CP-OFDM	QPSK	1	1	0 mm	back	1:1	1.170	1.114	1.303	
2310.00	462000	Md	NR Band n30	10	19.5	19.10	B	0.02	0	0997M	DFT-S-OFDM	QPSK	1	26	0 mm	front	1:1	0.545	1.096	0.597	
2310.00	462000	Md	NR Band n30	10	19.5	19.15	B	0.04	0	0997M	DFT-S-OFDM	QPSK	25	14	0 mm	front	1:1	0.636	1.084	0.689	
2310.00	462000	Md	NR Band n30	10	19.5	19.10	B	0.04	0	0997M	DFT-S-OFDM	QPSK	1	26	0 mm	bottom	1:1	0.535	1.096	0.586	
2310.00	462000	Md	NR Band n30	10	19.5	19.15	B	0.05	0	0997M	DFT-S-OFDM	QPSK	25	14	0 mm	bottom	1:1	0.571	1.084	0.619	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population									Extremity 4.0 W/kg (mW/g) averaged over 10 grams												

FCC ID: A3LSMS901U	 PCTEST Proud to be part of element	SAR EVALUATION REPORT			Approved by: Quality Manager
Document S/N: 1M2109080099-01.A3L (Rev2)	Test Dates: 09/12/21 - 11/08/21	DUT Type: Portable Handset			Page 156 of 183

Table 11-84
NR Band n7 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)		
2535.00	507000	Md	NR Band n7	40	22.5	22.33	B	-0.08	0	0294M	DFT-S-OFDM	QPSK	1	214	8 mm	back	1:1	0.367	1.040	0.382	
2535.00	507000	Md	NR Band n7	40	22.5	22.36	B	0.01	0	0294M	DFT-S-OFDM	QPSK	108	54	8 mm	back	1:1	0.491	1.033	0.507	
2535.00	507000	Md	NR Band n7	40	22.5	22.33	B	0.03	0	0294M	DFT-S-OFDM	QPSK	1	214	6 mm	front	1:1	0.338	1.040	0.352	
2535.00	507000	Md	NR Band n7	40	22.5	22.36	B	0.05	0	0294M	DFT-S-OFDM	QPSK	108	54	6 mm	front	1:1	0.502	1.033	0.519	
2535.00	507000	Md	NR Band n7	40	22.5	22.33	B	0.02	0	0294M	DFT-S-OFDM	QPSK	1	214	11 mm	bottom	1:1	0.483	1.040	0.502	
2535.00	507000	Md	NR Band n7	40	22.5	22.36	B	-0.10	0	0294M	DFT-S-OFDM	QPSK	108	54	11 mm	bottom	1:1	0.487	1.033	0.503	
2535.00	507000	Md	NR Band n7	40	22.5	22.33	B	0.01	0	0294M	DFT-S-OFDM	QPSK	1	214	0 mm	left	1:1	2.110	1.040	2.194	
2535.00	507000	Md	NR Band n7	40	22.5	22.36	B	-0.01	0	0294M	DFT-S-OFDM	QPSK	108	54	0 mm	left	1:1	2.210	1.033	2.283	
2535.00	507000	Md	NR Band n7	40	22.5	22.21	B	-0.02	0	0294M	DFT-S-OFDM	QPSK	216	0	0 mm	left	1:1	2.190	1.069	2.341	
2535.00	507000	Md	NR Band n7	40	20.5	20.15	B	0.00	0	0294M	DFT-S-OFDM	QPSK	1	214	0 mm	back	1:1	2.460	1.084	2.667	
2535.00	507000	Md	NR Band n7	40	20.5	20.19	B	0.03	0	0294M	DFT-S-OFDM	QPSK	108	108	0 mm	back	1:1	2.560	1.074	2.749	
2535.00	507000	Md	NR Band n7	40	20.5	20.02	B	-0.01	0	0294M	DFT-S-OFDM	QPSK	216	0	0 mm	back	1:1	2.620	1.117	2.927	
2535.00	507000	Md	NR Band n7	40	20.5	20.11	B	-0.03	0	0294M	CP-OFDM	QPSK	1	1	0 mm	back	1:1	2.820	1.094	3.085	A102
2535.00	507000	Md	NR Band n7	40	20.5	20.15	B	-0.02	0	0294M	DFT-S-OFDM	QPSK	1	214	0 mm	front	1:1	1.500	1.084	1.626	
2535.00	507000	Md	NR Band n7	40	20.5	20.19	B	-0.03	0	0294M	DFT-S-OFDM	QPSK	108	108	0 mm	front	1:1	1.580	1.074	1.697	
2535.00	507000	Md	NR Band n7	40	20.5	20.15	B	0.04	0	0294M	DFT-S-OFDM	QPSK	1	214	0 mm	bottom	1:1	1.680	1.084	1.821	
2535.00	507000	Md	NR Band n7	40	20.5	20.19	B	0.04	0	0294M	DFT-S-OFDM	QPSK	108	108	0 mm	bottom	1:1	1.730	1.074	1.858	
2535.00	507000	Md	NR Band n7	40	20.5	20.11	B	-0.02	0	0294M	CP-OFDM	QPSK	1	1	0 mm	back	1:1	2.800	1.094	3.063	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT									Extremity												
Spatial Peak									4.0 W/kg (mW/g)												
Uncontrolled Exposure/General Population									averaged over 10 grams												

Note: Blue entry represents variability measurement.

Table 11-85
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	Plot #	
MHz	Ch.																(W/kg)		(W/kg)		
2592.99	518598	Md	NR Band n41	100	21.0	20.56	F	-0.02	0	0919M	DFT-S-OFDM	QPSK	1	1	0 mm	back	1:1	0.785	1.107	0.869	
2592.99	518598	Md	NR Band n41	100	21.0	20.45	F	0.02	0	0919M	DFT-S-OFDM	QPSK	135	0	0 mm	back	1:1	0.839	1.135	0.952	
2592.99	518598	Md	NR Band n41	100	21.0	20.56	F	0.03	0	0919M	DFT-S-OFDM	QPSK	1	1	0 mm	top	1:1	1.680	1.107	1.860	
2592.99	518598	Md	NR Band n41	100	21.0	20.45	F	-0.01	0	0919M	DFT-S-OFDM	QPSK	135	0	0 mm	top	1:1	1.750	1.135	1.986	A103
2592.99	518598	Md	NR Band n41	100	21.0	20.30	F	0.08	0	0919M	DFT-S-OFDM	QPSK	270	0	0 mm	top	1:1	1.580	1.175	1.857	
2592.99	518598	Md	NR Band n41	100	21.0	20.54	F	-0.02	0	0919M	CP-OFDM	QPSK	1	1	0 mm	top	1:1	1.510	1.112	1.679	
2592.99	518598	Md	NR Band n41	100	17.5	16.50	B	-0.08	N/A	0919M	CW/SRS	N/A	N/A	N/A	0 mm	bottom	1:1	0.422	1.259	0.531	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT										Extremity											
Spatial Peak										4.0 W/kg (mW/g)											
Uncontrolled Exposure/General Population										averaged over 10 grams											

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Table 11-86
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	MPR [dB]	Duty Cycle	Scaling Factor	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.																	(W/kg)	(W/kg)	
3500.01	633334	Md	NR Band n77 DoD	100	18.0	16.75	G	-0.01	0	0885M	DFT-S-OFDM	QPSK	1	1	0 mm	back	1:1	1.334	0.680	0.907
3500.01	633334	Md	NR Band n77 DoD	100	18.0	16.59	G	-0.01	0	0885M	DFT-S-OFDM	QPSK	135	0	0 mm	back	1:1	1.384	0.679	0.940
3500.01	633334	Md	NR Band n77 DoD	100	18.0	16.75	G	0.04	0	0885M	DFT-S-OFDM	QPSK	1	1	0 mm	left	1:1	1.334	1.780	2.375
3500.01	633334	Md	NR Band n77 DoD	100	18.0	16.59	G	-0.02	0	0885M	DFT-S-OFDM	QPSK	135	0	0 mm	left	1:1	1.384	1.760	2.436
3500.01	633334	Md	NR Band n77 DoD	100	18.0	16.51	G	-0.07	0	0885M	DFT-S-OFDM	QPSK	270	0	0 mm	left	1:1	1.409	1.750	2.466
3500.01	633334	Md	NR Band n77 DoD	100	18.0	16.86	G	0.08	0	0885M	CP-OFDM	QPSK	1	1	0 mm	left	1:1	1.300	1.920	2.496
3750.00	650000	Low	NR Band n77	100	18.0	17.65	G	-0.01	0	0885M	DFT-S-OFDM	QPSK	1	137	0 mm	back	1:1	1.084	0.978	1.060
3930.00	662000	High	NR Band n77	100	18.0	17.70	G	0.02	0	0885M	DFT-S-OFDM	QPSK	1	137	0 mm	back	1:1	1.072	1.020	1.093
3750.00	650000	Low	NR Band n77	100	18.0	17.68	G	0.00	0	0885M	DFT-S-OFDM	QPSK	135	0	0 mm	back	1:1	1.076	0.992	1.067
3930.00	662000	High	NR Band n77	100	18.0	17.69	G	0.03	0	0885M	DFT-S-OFDM	QPSK	135	69	0 mm	back	1:1	1.074	1.020	1.095
3930.00	662000	High	NR Band n77	100	18.0	17.59	G	-0.01	0	0885M	DFT-S-OFDM	QPSK	270	0	0 mm	back	1:1	1.099	1.230	1.352
3750.00	650000	Low	NR Band n77	100	18.0	17.65	G	0.02	0	0885M	DFT-S-OFDM	QPSK	1	137	0 mm	left	1:1	1.084	1.970	2.135
3930.00	662000	High	NR Band n77	100	18.0	17.70	G	0.01	0	0885M	DFT-S-OFDM	QPSK	1	137	0 mm	left	1:1	1.072	2.400	2.573
3750.00	650000	Low	NR Band n77	100	18.0	17.68	G	0.00	0	0885M	DFT-S-OFDM	QPSK	135	0	0 mm	left	1:1	1.076	2.090	2.249
3930.00	662000	High	NR Band n77	100	18.0	17.69	G	0.06	0	0885M	DFT-S-OFDM	QPSK	135	69	0 mm	left	1:1	1.074	2.190	2.352
3930.00	662000	High	NR Band n77	100	18.0	17.59	G	0.00	0	0885M	DFT-S-OFDM	QPSK	270	0	0 mm	left	1:1	1.099	2.100	2.308
3930.00	662000	High	NR Band n77	100	18.0	17.59	G	0.03	0	0885M	CP-OFDM	QPSK	1	1	0 mm	left	1:1	1.099	2.090	2.297
3930.00	662000	High	NR Band n77	100	12.5	11.75	C	-0.12	N/A	0885M	CW/SSRS	N/A	N/A	N/A	0 mm	left	1:1	1.189	0.428	0.509
3750.00	650000	Low	NR Band n77	100	18.0	17.68	G	0.02	0	0885M	DFT-S-OFDM	QPSK	135	0	0 mm	left	1:1	1.076	2.060	2.217
3930.00	662000	High	NR Band n77	100	18.0	17.70	G	0.02	0	0885M	DFT-S-OFDM	QPSK	1	137	0 mm	left	1:1	1.072	2.210	2.369
ANSI / IEEE C95.1 1992 - SAFETY LIMIT										Extremity										
Spatial Peak										1.6 W/kg (mW/g)										
Uncontrolled Exposure/General Population										averaged over 1 gram										

Note: Blue entries represent variability measurements

Table 11-87
NII SISO WLAN Phablet 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 (10g)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (10g)	Plot #
MHz	Ch.													W/kg	(W/kg)	(Power)	(Duty Cycle)	(W/kg)	
5290	58	802.11ac	OFDM	80	18.0	17.66	-0.03	0 mm	1	1342M	29.3	back	92.4	4.540	1.040	1.081	1.082	1.216	
5290	58	802.11ac	OFDM	80	18.0	17.66	-0.04	0 mm	1	1342M	29.3	front	92.4	6.900	0.988	1.081	1.082	1.156	
5290	58	802.11ac	OFDM	80	18.0	17.66	0.04	0 mm	1	1342M	29.3	left	92.4	11.800	1.750	1.081	1.082	2.047	A106
5610	122	802.11ac	OFDM	80	18.0	17.93	-0.01	0 mm	1	1342M	29.3	back	92.4	4.860	0.875	1.016	1.082	0.962	
5610	122	802.11ac	OFDM	80	18.0	17.93	0.00	0 mm	1	1342M	29.3	front	92.4	4.560	0.754	1.016	1.082	0.829	
5610	122	802.11ac	OFDM	80	18.0	17.93	0.07	0 mm	1	1342M	29.3	left	92.4	6.160	1.060	1.016	1.082	1.165	
5855	171	802.11ac	OFDM	80	18.0	17.51	-0.02	0 mm	1	1342M	29.3	back	92.4	2.300	0.342	1.119	1.082	0.414	
5855	171	802.11ac	OFDM	80	18.0	17.51	0.00	0 mm	1	1342M	29.3	front	92.4	3.270	0.688	1.119	1.082	0.833	
5855	171	802.11ac	OFDM	80	18.0	17.51	-0.03	0 mm	1	1342M	29.3	left	92.4	3.650	0.736	1.119	1.082	0.891	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population								Phablet 4.0 W/kg (mW/g) averaged over 10 grams											

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Table 11-88
NII MIMO WLAN 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)	
5290	58	802.11ac	OFDM	80	18.0	17.66	18.0	17.67	-0.02	0 mm	MIMO	1342M	58.5	back	91.7	3.170	0.590	1.081	1.091	0.696	
5290	58	802.11ac	OFDM	80	18.0	17.66	18.0	17.67	-0.06	0 mm	MIMO	1342M	58.5	front	91.7	2.880	-	1.081	1.091	-	
5290	58	802.11ac	OFDM	80	18.0	17.66	18.0	17.67	0.02	0 mm	MIMO	1342M	58.5	top	91.7	0.240	-	1.081	1.091	-	
5290	58	802.11ac	OFDM	80	18.0	17.66	18.0	17.67	-0.01	0 mm	MIMO	1342M	58.5	left	91.7	5.910	0.975	1.081	1.091	1.150	
5610	122	802.11ac	OFDM	80	18.0	17.93	18.0	17.95	0.03	0 mm	MIMO	1342M	58.5	back	91.7	2.010	-	1.016	1.091	-	
5610	122	802.11ac	OFDM	80	18.0	17.93	18.0	17.95	0.00	0 mm	MIMO	1342M	58.5	front	91.7	2.420	-	1.016	1.091	-	
5610	122	802.11ac	OFDM	80	18.0	17.93	18.0	17.95	-0.16	0 mm	MIMO	1342M	58.5	top	91.7	0.144	-	1.016	1.091	-	
5610	122	802.11ac	OFDM	80	18.0	17.93	18.0	17.95	-0.06	0 mm	MIMO	1342M	58.5	left	91.7	3.840	0.618	1.016	1.091	0.685	
5855	171	802.11ac	OFDM	80	18.0	17.51	18.0	17.69	-0.04	0 mm	MIMO	1342M	58.5	back	91.7	3.570	0.841	1.119	1.091	1.027	
5855	171	802.11ac	OFDM	80	18.0	17.51	18.0	17.69	0.00	0 mm	MIMO	1342M	58.5	front	91.7	3.560	0.698	1.119	1.091	0.852	
5855	171	802.11ac	OFDM	80	18.0	17.51	18.0	17.69	-0.17	0 mm	MIMO	1342M	58.5	top	91.7	0.324	-	1.119	1.091	-	
5855	171	802.11ac	OFDM	80	18.0	17.51	18.0	17.69	0.01	0 mm	MIMO	1342M	58.5	left	91.7	3.090	-	1.119	1.091	-	
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 21 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 18 dBm.

Table 11-89
NII SISO WLAN Phablet SAR during Conditions with 5G NR

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 (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	13.0	12.83	-0.01	0 mm	1	1342M	29.3	back	92.4	1.160	0.247	1.040	1.082	0.278	
5290	58	802.11ac	OFDM	80	13.0	12.83	0.07	0 mm	1	1342M	29.3	front	92.4	1.410	-	1.040	1.082	-	
5290	58	802.11ac	OFDM	80	13.0	12.83	-0.02	0 mm	1	1342M	29.3	left	92.4	2.830	0.410	1.040	1.082	0.461	
5530	106	802.11ac	OFDM	80	13.0	12.99	-0.01	0 mm	1	1342M	29.3	back	92.4	1.050	0.249	1.002	1.082	0.270	
5530	106	802.11ac	OFDM	80	13.0	12.99	-0.03	0 mm	1	1342M	29.3	front	92.4	1.840	-	1.002	1.082	-	
5530	106	802.11ac	OFDM	80	13.0	12.99	-0.04	0 mm	1	1342M	29.3	left	92.4	1.960	0.399	1.002	1.082	0.433	
5855	171	802.11ac	OFDM	80	13.0	12.48	0.00	0 mm	1	1342M	29.3	back	92.4	0.950	0.125	1.127	1.082	0.152	
5855	171	802.11ac	OFDM	80	13.0	12.48	-0.11	0 mm	1	1342M	29.3	front	92.4	1.140	0.228	1.127	1.082	0.278	
5855	171	802.11ac	OFDM	80	13.0	12.48	-0.02	0 mm	1	1342M	29.3	left	92.4	0.762	-	1.127	1.082	-	
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: 5GHz WLAN SISO was additionally evaluated at the maximum allowed output power during simultaneous operations with 5G NR. 5G NR was not transmitting during the above evaluations.

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Table 11-90
WLAN MIMO Phablet SAR during Conditions with 5G NR

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	Scaling Factor	Reported SAR (10g)	Plot #
MHz	Ch.															W/kg	(W/kg)	(Power)	(Duty Cycle)	(W/kg)	
5290	58	802.11ac	OFDM	80	13.0	12.83	13.0	12.84	-0.12	0 mm	MIMO	1342M	58.5	back	91.7	1.120	0.237	1.040	1.091	0.269	
5290	58	802.11ac	OFDM	80	13.0	12.83	13.0	12.84	0.09	0 mm	MIMO	1342M	58.5	front	91.7	1.020	-	1.040	1.091	-	
5290	58	802.11ac	OFDM	80	13.0	12.83	13.0	12.84	0.15	0 mm	MIMO	1342M	58.5	top	91.7	0.153	-	1.040	1.091	-	
5290	58	802.11ac	OFDM	80	13.0	12.83	13.0	12.84	-0.05	0 mm	MIMO	1342M	58.5	left	91.7	1.440	0.397	1.040	1.091	0.450	
5530	106	802.11ac	OFDM	80	13.0	12.99	13.0	12.99	0.18	0 mm	MIMO	1342M	58.5	back	91.7	0.878	0.115	1.002	1.091	0.126	
5530	106	802.11ac	OFDM	80	13.0	12.99	13.0	12.99	0.02	0 mm	MIMO	1342M	58.5	front	91.7	1.020	0.238	1.002	1.091	0.260	
5530	106	802.11ac	OFDM	80	13.0	12.99	13.0	12.99	-0.12	0 mm	MIMO	1342M	58.5	top	91.7	0.079	-	1.002	1.091	-	
5530	106	802.11ac	OFDM	80	13.0	12.99	13.0	12.99	0.00	0 mm	MIMO	1342M	58.5	left	91.7	0.681	-	1.002	1.091	-	
5855	171	802.11ac	OFDM	80	13.0	12.48	13.0	12.86	-0.05	0 mm	MIMO	1342M	58.5	back	91.7	0.979	0.173	1.127	1.091	0.213	
5855	171	802.11ac	OFDM	80	13.0	12.48	13.0	12.86	-0.04	0 mm	MIMO	1342M	58.5	front	91.7	1.150	0.217	1.127	1.091	0.267	
5855	171	802.11ac	OFDM	80	13.0	12.48	13.0	12.86	0.20	0 mm	MIMO	1342M	58.5	top	91.7	0.079	-	1.127	1.091	-	
5855	171	802.11ac	OFDM	80	13.0	12.48	13.0	12.86	-0.01	0 mm	MIMO	1342M	58.5	left	91.7	0.711	-	1.127	1.091	-	
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: 5GHz WLAN MIMO was additionally evaluated at the maximum allowed output power during simultaneous operations with 5G NR. 5G NR was not transmitting during the above evaluations.

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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 12 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 13 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).
15. 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 Band n77 C-Band, testing at the other channels was required for such test configurations.

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.

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- Per FCC KDB Publication 447498 D01v06, if the reported (scaled) SAR measured at the highest output power channel for each test configuration is ≤ 0.8 W/kg for 1g evaluations then testing at the other channels is not required for such test configuration(s).

UMTS Notes:

- 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.
- Per FCC KDB Publication 447498 D01v06, if the reported (scaled) SAR measured at the highest output power channel for each test configuration is ≤ 0.8 W/kg for 1g evaluations then testing at the other channels is not required for such test configuration(s).

LTE Notes:

- 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 8.5.4.
- 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.
- 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).
- 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.
- 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.
- This device supports Power Class 2 and Power Class 3 operations for LTE Band 41. The highest available duty cycle for Power Class 2 operations is 43.3 % using UL-DL configuration 1. Per FCC Guidance, all SAR tests were performed using Power Class 3. SAR with power class 2 at the available duty factor was additionally performed for the power class 3 configuration with the highest SAR configuration for each exposure conditions. Please see Section 13 for linearity results.
- 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.
- 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:

- 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.
- Due to test setup limitations, SAR testing for NR TDD was performed using test mode software to establish the connection.

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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, NR modulations and RB Sizes/Offsets were selected for testing such that configurations with the highest output power were evaluated for SAR tests.
6. SRS was tested with CW signal per Qualcomm guidance in 80-w2112-4.

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 8.6.5 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 8.6.6 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 Appendix K 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 9.6 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.

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12 SAR MEASUREMENT VARIABILITY

12.1 Measurement Variability

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

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

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

Table 12-1
Head SAR Measurement Variability Results

HEAD VARIABILITY RESULTS														
Band	FREQUENCY		Mode	Service	Side	Test Position	Antenna Config	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)	
2600	2592.99	518598	NR Band n41,100 MHz Bandwidth	DFT-S-OFDM, QPSK, 1 RB, 1 RB Offset	Left	Tilt	F	0.904	0.866	1.04	N/A	N/A	N/A	N/A
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 12-2
Body SAR Measurement Variability Results

BODY VARIABILITY RESULTS															
Band	FREQUENCY		Mode	Service	Antenna Config	Data Rate (Mbps)	Side	Spacing	Measured SAR (1g)	1st Repeated SAR (1g)	Ratio	2nd Repeated SAR (1g)	Ratio	3rd Repeated SAR (1g)	Ratio
	MHz	Ch.							(W/kg)	(W/kg)		(W/kg)		(W/kg)	
1750	1770.00	132572	LTE Band 66 (AWS), 20 MHz Bandwidth	QPSK, 1 RB, 0 RB Offset	A	N/A	back	15 mm	1.010	0.994	1.02	N/A	N/A	N/A	N/A
1900	1882.50	376500	NR Band n25 (PCS), 40 MHz Bandwidth	CP-OFDM, QPSK, 1 RB, 1 RB Offset	A	N/A	bottom	10 mm	1.020	0.990	1.03	N/A	N/A	N/A	N/A
2300	2310.00	462000	NR Band n30, 10 MHz Bandwidth	DFT-S-OFDM, QPSK, 25 RB, 14 RB Offset	A	N/A	bottom	10 mm	0.848	0.740	1.15	N/A	N/A	N/A	N/A
2450	2462.00	11	802.11b, 22 MHz Bandwidth	DSSS , MIMO	MIMO	1	back	10 mm	0.870	0.870	1.00	N/A	N/A	N/A	N/A
ANSI / IEEE C95.1 1992 - SAFETY LIMIT								Body							
Spatial Peak								1.6 W/kg (mW/g)							
Uncontrolled Exposure/General Population								averaged over 1 gram							

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Table 12-3
Phablet SAR Measurement Variability Results

PHABLET VARIABILITY RESULTS														
Band	FREQUENCY		Mode	Service	Antenna Config	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)	
2300	2310.00	27710	LTE Band 30, 10 MHz Bandwidth	QPSK, 1 RB, 25 RB Offset	A	back	0 mm	2.260	2.220	1.02	N/A	N/A	N/A	N/A
1750	1745.00	349000	NR Band n66 (AWS), 40 MHz Bandwidth	DFT-S-OFDM, QPSK, 108 RB, 108 RB Offset	F	top	0 mm	2.260	2.260	1.00	N/A	N/A	N/A	N/A
1900	1882.50	376500	NR Band n25 (PCS), 40 MHz Bandwidth	DFT-S-OFDM, QPSK, 216 RB, 0 RB Offset	A	bottom	0 mm	2.340	2.340	1.00	N/A	N/A	N/A	N/A
2600	2535.00	507000	NR Band n7, 40 MHz Bandwidth	CP-OFDM, QPSK, 1 RB, 1 RB Offset	B	back	0 mm	2.820	2.800	1.01	N/A	N/A	N/A	N/A
3700	3750.00	650000	NR Band n77, 100 MHz Bandwidth	DFT-S-OFDM, QPSK, 135 RB, 0 RB Offset	G	left	0 mm	2.090	2.060	1.01	N/A	N/A	N/A	N/A
3900	3930.00	662000	NR Band n77, 100 MHz Bandwidth	DFT-S-OFDM, QPSK, 1 RB, 137 RB Offset	G	left	0 mm	2.400	2.210	1.09	N/A	N/A	N/A	N/A
ANSI / IEEE C95.1 1992 - SAFETY LIMIT							Phablet							
Spatial Peak							4.0 W/kg (mW/g)							
Uncontrolled Exposure/General Population							averaged over 10 grams							

12.2 Measurement Uncertainty

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

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13 ADDITIONAL TESTING PER FCC GUIDANCE

13.1 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.

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 measured 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 $> 1.2 \text{ W/kg}$ 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.

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Table 13-1
UMTS Supplemental Head SAR Data

Supplemental Head SAR Data					
UMTS B5		UMTS B4		UMTS B2	
RMC		RMC		RMC	
Test Position	Right Cheek	Test Position	Left Cheek	Test Position	Left Cheek
Frequency (MHz)	836.60	Frequency (MHz)	1712.40	Frequency (MHz)	1907.60
Channel	4183	Channel	1312	Channel	9538
Measured 1g SAR (W/kg)	0.266	Measured 1g SAR (W/kg)	0.193	Measured 1g SAR (W/kg)	0.209
Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)	
Auto-tune (State 14)	0.352	Auto-tune (State 116)	0.209	Auto-tune (State 8)	0.216
Default (State 0)	0.256	Default (State 0)	0.197	Default (State 0)	0.224
State 0	0.256	State 1	0.184	State 2	0.233
State 14	0.350	State 40	0.056	State 8	0.243
State 39	0.219	State 79	0.108	State 41	0.091
State 78	0.298	State 116	0.203	State 80	0.159
State 117	0.214	State 118	0.114	State 119	0.154

Table 13-2
LTE Supplemental Head SAR Data

Supplemental Head SAR Data							
LTE B71		LTE B12		LTE B13		LTE B14	
QPSK, 20 MHz Bandwidth, 1 RB, 50 RB Offset		QPSK, 10 MHz Bandwidth, 1 RB, 49 RB Offset		QPSK, 10 MHz Bandwidth, 1 RB, 0 RB Offset		QPSK, 10 MHz Bandwidth, 1 RB, 25 RB Offset	
Test Position	Right Cheek	Test Position	Left Cheek	Test Position	Right Cheek	Test Position	Right Cheek
Frequency (MHz)	680.50	Frequency (MHz)	707.50	Frequency (MHz)	782.00	Frequency (MHz)	793.00
Channel	133297	Channel	23095	Channel	23230	Channel	23330
Measured 1g SAR (W/kg)	0.152	Measured 1g SAR (W/kg)	0.226	Measured 1g SAR (W/kg)	0.226	Measured 1g SAR (W/kg)	0.258
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 106)	0.201	Auto-tune (State 106)	0.304	Auto-tune (State 26)	0.304	Auto-tune (State 54)	0.337
Default (State 0)	0.097	Default (State 0)	0.158	Default (State 0)	0.216	Default (State 0)	0.228
State 6	0.026	State 7	0.033	State 8	0.048	State 9	0.034
State 45	0.019	State 46	0.023	State 26	0.304	State 19	0.103
State 79	0.145	State 52	0.225	State 29	0.287	State 48	0.025
State 84	0.080	State 85	0.100	State 47	0.032	State 54	0.334
State 106	0.199	State 106	0.296	State 86	0.113	State 87	0.067

Supplemental Head SAR Data							
LTE B5		LTE B26		LTE B66		LTE B25	
QPSK, 10 MHz Bandwidth, 1 RB, 0 RB Offset		QPSK, 15 MHz Bandwidth, 1 RB, 0 RB Offset		QPSK, 20 MHz Bandwidth, 1 RB, 0 RB Offset		QPSK, 20 MHz Bandwidth, 1 RB, 0 RB Offset	
Test Position	Right Cheek	Test Position	Right Cheek	Test Position	Left Cheek	Test Position	Left Cheek
Frequency (MHz)	836.50	Frequency (MHz)	831.50	Frequency (MHz)	1770.00	Frequency (MHz)	1860.00
Channel	20525	Channel	26865	Channel	132572	Channel	26140
Measured 1g SAR (W/kg)	0.275	Measured 1g SAR (W/kg)	0.254	Measured 1g SAR (W/kg)	0.276	Measured 1g SAR (W/kg)	0.241
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 1)	0.275	Auto-tune (State 14)	0.337	Auto-tune (State 14)	0.301	Auto-tune (State 0)	0.285
Default (State 0)	0.264	Default (State 0)	0.259	Default (State 0)	0.280	Default (State 0)	0.309
State 1	0.274	State 11	0.021	State 12	0.068	State 0	0.309
State 2	0.258	State 14	0.333	State 14	0.275	State 53	0.258
State 10	0.061	State 50	0.015	State 51	0.014	State 81	0.184
State 49	0.057	State 89	0.038	State 90	0.035	State 83	0.183
State 88	0.053	State 110	0.313	State 117	0.111	State 92	0.206

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NR Supplemental Head SAR Data

Supplemental Head SAR Data									
NR Band n71		NR Band n12		NR Band n5		NR Band n66		NR Band n25	
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, 50 RB, 28 RB Offset		DFT-s-OFDM QPSK, 40 MHz Bandwidth, 108 RB, 108 RB Offset		DFT-s-OFDM QPSK, 40 MHz Bandwidth, 1 RB, 108 RB Offset	
Test Position	Right Cheek	Test Position	Left Cheek	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)	0.169	Measured 1g SAR (W/kg)	0.222	Measured 1g SAR (W/kg)	0.248	Measured 1g SAR (W/kg)	0.271	Measured 1g SAR (W/kg)	0.273
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)	0.171	Auto-tune (State 2)	0.232	Auto-tune (State 1)	0.250	Auto-tune (State 14)	0.299	Auto-tune (State 2)	0.272
Default (State 0)	0.171	Default (State 0)	0.227	Default (State 0)	0.287	Default (State 0)	0.276	Default (State 0)	0.272
State 0	0.171	State 2	0.231	State 1	0.277	State 14	0.288	State 2	0.316
State 15	0.107	State 16	0.152	State 17	0.287	State 18	0.294	State 7	0.264
State 54	0.117	State 55	0.127	State 42	0.251	State 30	0.283	State 19	0.271
State 71	0.022	State 59	0.063	State 56	0.254	State 57	0.288	State 58	0.104
State 93	0.117	State 94	0.130	State 95	0.259	State 96	0.197	State 97	0.226

UMTS Supplemental Body SAR Data

Experimental Raw SAR Data				Experimental Raw SAR Data			
LMSB		LMSB		LMSB		LMSB	
RMSB		RMSB		RMSB		RMSB	
Test Position	Back	Test Position	Bottom	Test Position	Bottom	Test Position	Bottom
10 mm	10 mm	10 mm	10 mm	10 mm	10 mm	10 mm	10 mm
Frequency (MHz)	2.45	Frequency (MHz)	2.45	Frequency (MHz)	2.45	Frequency (MHz)	2.45
Channel	4253	Channel	4242	Channel	4242	Channel	4258
Measuring by SAR	0.428	Measuring by SAR	0.428	Measuring by SAR	0.428	Measuring by SAR	0.428
Antenna (State 0)	0.428	Antenna (State 0)	0.428	Antenna (State 0)	0.428	Antenna (State 0)	0.428
Antenna (State 1)	0.428	Antenna (State 1)	0.428	Antenna (State 1)	0.428	Antenna (State 1)	0.428
State 0	0.542	State 1	0.428	State 2	0.428	State 3	0.428
State 4	0.391	State 5	0.428	State 6	0.428	State 7	0.428
State 8	0.118	State 9	0.428	State 10	0.428	State 11	0.428
State 12	0.338	State 13	0.428	State 14	0.428	State 15	0.428
State 16	0.191	State 17	0.411	State 18	0.428	State 19	0.428
State 20	0.394	State 21	0.428	State 22	0.428	State 23	0.428
State 24	0.428	State 25	0.428	State 26	0.428	State 27	0.428
State 28	0.428	State 29	0.428	State 30	0.428	State 31	0.428
State 32	0.428	State 33	0.428	State 34	0.428	State 35	0.428
State 36	0.428	State 37	0.428	State 38	0.428	State 39	0.428
State 40	0.428	State 41	0.428	State 42	0.428	State 43	0.428
State 44	0.428	State 45	0.428	State 46	0.428	State 47	0.428
State 48	0.428	State 49	0.428	State 50	0.428	State 51	0.428
State 52	0.428	State 53	0.428	State 54	0.428	State 55	0.428
State 56	0.428	State 57	0.428	State 58	0.428	State 59	0.428
State 60	0.428	State 61	0.428	State 62	0.428	State 63	0.428
State 64	0.428	State 65	0.428	State 66	0.428	State 67	0.428
State 68	0.428	State 69	0.428	State 70	0.428	State 71	0.428
State 72	0.428	State 73	0.428	State 74	0.428	State 75	0.428
State 76	0.428	State 77	0.428	State 78	0.428	State 79	0.428
State 80	0.428	State 81	0.428	State 82	0.428	State 83	0.428
State 84	0.428	State 85	0.428	State 86	0.428	State 87	0.428
State 88	0.428	State 89	0.428	State 90	0.428	State 91	0.428
State 92	0.428	State 93	0.428	State 94	0.428	State 95	0.428
State 96	0.428	State 97	0.428	State 98	0.428	State 99	0.428
State 100	0.428	State 101	0.428	State 102	0.428	State 103	0.428
State 104	0.428	State 105	0.428	State 106	0.428	State 107	0.428
State 108	0.428	State 109	0.428	State 110	0.428	State 111	0.428
State 112	0.428	State 113	0.428	State 114	0.428	State 115	0.428
State 116	0.428	State 117	0.428	State 118	0.428	State 119	0.428
State 120	0.428	State 121	0.428	State 122	0.428	State 123	0.428
State 124	0.428	State 125	0.428	State 126	0.428	State 127	0.428
State 128	0.428	State 129	0.428	State 130	0.428	State 131	0.428
State 132	0.428	State 133	0.428	State 134	0.428	State 135	0.428
State 136	0.428	State 137	0.428	State 138	0.428	State 139	0.428
State 140	0.428	State 141	0.428	State 142	0.428	State 143	0.428
State 144	0.428	State 145	0.428	State 146	0.428	State 147	0.428
State 148	0.428	State 149	0.428	State 150	0.428	State 151	0.428
State 152	0.428	State 153	0.428	State 154	0.428	State 155	0.428
State 156	0.428	State 157	0.428	State 158	0.428	State 159	0.428
State 160	0.428	State 161	0.428	State 162	0.428	State 163	0.428
State 164	0.428	State 165	0.428	State 166	0.428	State 167	0.428
State 168	0.428	State 169	0.428	State 170	0.428	State 171	0.428
State 172	0.428	State 173	0.428	State 174	0.428	State 175	0.428
State 176	0.428	State 177	0.428	State 178	0.428	State 179	0.428
State 180	0.428	State 181	0.428	State 182	0.428	State 183	0.428
State 184	0.428	State 185	0.428	State 186	0.428	State 187	0.428
State 188	0.428	State 189	0.428	State 190	0.428	State 191	0.428
State 192	0.428	State 193	0.428	State 194	0.428	State 195	0.428
State 196	0.428	State 197	0.428	State 198	0.428	State 199	0.428
State 200	0.428	State 201	0.428	State 202	0.428	State 203	0.428
State 204	0.428	State 205	0.428	State 206	0.428	State 207	0.428
State 208	0.428	State 209	0.428	State 210	0.428	State 211	0.428
State 212	0.428	State 213	0.428	State 214	0.428	State 215	0.428
State 216	0.428	State 217	0.428	State 218	0.428	State 219	0.428
State 220	0.428	State 221	0.428	State 222	0.428	State 223	0.428
State 224	0.428	State 225	0.428	State 226	0.428	State 227	0.428
State 228	0.428	State 229	0.428	State 230	0.428	State 231	0.428
State 232	0.428	State 233	0.428	State 234	0.428	State 235	0.428
State 236	0.428	State 237	0.428	State 238	0.428	State 239	0.428
State 240	0.428	State 241	0.428	State 242	0.428	State 243	0.428
State 244	0.428	State 245	0.428	State 246	0.428	State 247	0.428
State 248	0.428	State 249	0.428	State 250	0.428	State 251	0.428
State 252	0.428	State 253	0.428	State 254	0.428	State 255	0.428
State 256	0.428	State 257	0.428	State 258	0.428	State 259	0.428
State 260	0.428	State 261	0.428	State 262	0.428	State 263	0.428
State 264	0.428	State 265	0.428	State 266	0.428	State 267	0.428
State 268	0.428	State 269	0.428	State 270	0.428	State 271	0.428
State 272	0.428	State 273	0.428	State 274	0.428	State 275	0.428
State 276	0.428	State 277	0.428	State 278	0.428	State 279	0.428
State 280	0.428	State 281	0.428	State 282	0.428	State 283	0.428
State 284	0.428	State 285	0.428	State 286	0.428	State 287	0.428
State 288	0.428	State 289	0.428	State 290	0.428	State 291	0.428
State 292	0.428	State 293	0.428	State 294	0.428	State 295	0.428
State 296	0.428	State 297	0.428	State 298	0.428	State 299	0.428
State 300	0.428	State 301	0.428	State 302	0.428	State 303	0.428
State 304	0.428	State 305	0.428	State 306	0.428	State 307	0.428
State 308	0.428	State 309	0.428	State 310	0.428	State 311	0.428
State 312	0.428	State 313	0.428	State 314	0.428	State 315	0.428
State 316	0.428	State 317	0.428	State 318	0.428	State 319	0.428
State 320	0.428	State 321	0.428	State 322	0.428	State 323	0.428
State 324	0.428	State 325	0.428	State 326	0.428	State 327	0.428
State 328	0.428	State 329	0.428	State 330	0.428	State 331	0.428
State 332	0.428	State 333	0.428	State 334	0.428	State 335	0.428
State 336	0.428	State 337	0.428	State 338	0.428	State 339	0.428
State 340	0.428	State 341	0.428	State 342	0.428	State 343	0.428
State 344	0.428	State 345	0.428	State 346	0.428	State 347	0.428
State 348	0.428	State 349	0.428	State 350	0.428	State 351	0.428
State 352	0.428	State 353	0.428	State 354	0.428	State 355	0.428
State 356	0.428	State 357	0.428	State 358	0.428	State 359	0.428
State 360	0.428	State 361	0.428	State 362	0.428	State 363	0.428
State 364	0.428	State 365	0.428	State 366	0.428	State 367	0.428
State 368	0.428	State 369	0.428	State 370	0.428	State 371	0.428
State 372	0.428	State 373	0.428	State 374	0.428	State 375	0.428
State 376	0.428	State 377	0.428	State 378	0.428	State 379	0.428
State 380	0.428	State 381	0.428	State 382	0.428	State 383	0.428
State 384	0.428	State 385	0.428	State 386	0.428	State 387	0.428
State 388	0.428	State 389	0.428	State 390	0.428	State 391	0.428
State 392	0.428	State 393	0.428	State 394	0.428	State 395	0.428
State 396	0.428	State 397	0.428	State 398	0.428	State 399	0.428
State 400	0.428	State 401	0.428	State 402	0.428	State 403	0.428
State 404	0.428	State 405	0.428	State 406	0.428	State 407	0.428
State 408	0.428	State 409	0.428	State 410	0.428	State 411	0.428
State 412	0.428	State 413	0.428	State 414	0.428	State 415	0.428
State 416	0.428	State 417	0.428	State 418	0.428	State 419	0.428
State 420	0.428	State 421	0.428	State 422	0.428	State 423	0.428
State 424	0.428	State 425	0.428	State 426	0.428	State 427	0.428
State 428	0.428	State 429	0.428	State 430	0.428	State 431	0.428
State 432	0.428	State 433	0.428	State 434	0.428	State 435	0.428
State 436	0.428	State 437	0.428	State 438	0.428	State 439	0.428
State 440	0.428	State 441	0.428	State 442	0.428	State 443	0.428
State 444	0.428	State 445	0.428	State 446	0.428	State 447	0.428
State 448	0.428	State 449	0.428	State 450	0.428	State 451	0.428
State 452	0.428	State 453	0.428	State 454	0.428	State 455	0.428
State 456	0.428	State 457	0.428	State 458	0.428	State 459	0.428
State 460	0.428	State 461	0.428	State 462	0.428	State 463	0.428
State 464	0.428	State 465	0.428	State 466	0.428	State 467	0.428
State 468	0.428	State 469	0.428	State 470	0.428	State 471	0.428
State 472	0.428	State 473	0.428	State 474	0.428	State 475	0.428
State 476	0.428	State 477	0.428	State 478	0.428	State 479	0.428
State 480	0.428	State 481	0.428	State 482	0.428	State 483	0.428
State 484	0.428	State 485	0.428	State 486	0.428	State 487	0.428
State 488	0.428	State 489	0.428	State 490	0.428	State 491	0.428
State 492	0.428	State 493	0.428	State 494	0.428	State 495	0.428
State 496	0.428	State 497	0.428	State 498	0.428	State 499	0.428
State 500	0.428	State 501	0.428	State 502	0.428	State 503	0.428
State 504	0.428	State 505	0.428	State 506	0.428	State 507	0.428
State 508	0.428	State 509	0.428	State 510	0.428	State 511	0.428
State 512	0.428	State 513	0.428	State 514	0.428	State 515	0.428
State 516	0.428	State 517	0.428	State 518	0.428	State 519	0.428
State 520	0.428	State 521	0.428	State 522	0.428	State 523	0.428
State 524	0.428	State 525	0.428	State 526	0.428	State 527	0.428
State 528	0.428	State 529	0.428	State 530	0.428	State 531	0.428
State 532	0.428	State 533	0.428	State 534	0.428	State 535	0.428
State 536	0.428	State 537	0.428	State 538	0.428	State 539	0.428
State 540	0.428	State 541	0.428	State 542	0.428	State 543	0.428
State 544	0.428	State 545	0.428	State 546	0.428	State 547	0.428
State 548	0.428	State 549	0.428	State 550	0.428	State 551	0.428
State 552	0.428	State 553	0.428	State 554	0.428	State 555	0.428
State 556	0.428	State 557	0.428	State 558	0.428	State 559	0.428
State 560	0.428	State 561	0.428	State 562	0.428	State 563	0.428
State 56							

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LTE Supplemental Body SAR Data

Supplemental Body SAR Data							
LTE B71		LTE B12		LTE B13		LTE B14	
QPSK, 20 MHz Bandwidth, 1 RB, 50 RB Offset		QPSK, 10 MHz Bandwidth, 1 RB, 49 RB Offset		QPSK, 10 MHz Bandwidth, 1 RB, 0 RB Offset		QPSK, 10 MHz Bandwidth, 1 RB, 25 RB Offset	
Test Position	Back	Test Position	Back	Test Position	Back	Test Position	Back
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
Channel	133297	Channel	23095	Channel	23230	Channel	23330
Measured 1g SAR (W/kg)	0.397	Measured 1g SAR (W/kg)	0.518	Measured 1g SAR (W/kg)	0.512	Measured 1g SAR (W/kg)	0.486
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 118)	0.615	Auto-tune (State 118)	0.783	Auto-tune (State 79)	0.767	Auto-tune (State 54)	0.761
Default (State 0)	0.340	Default (State 0)	0.464	Default (State 0)	0.656	Default (State 0)	0.650
State 21	0.028	State 5	0.218	State 3	0.508	State 26	0.828
State 26	0.669	State 15	0.439	State 13	0.702	State 29	0.787
State 65	0.376	State 27	0.714	State 14	0.757	State 34	0.362
State 86	0.165	State 66	0.431	State 28	0.801	State 54	0.788
State 104	0.340	State 105	0.618	State 67	0.629	State 68	0.635
State 106	0.668	State 108	0.628	State 79	0.773	State 89	0.110
State 118	0.608	State 118	0.745	State 106	0.820	State 107	0.525

L1E B5				L1E B5S				L1E B5S				L1E B5S			
GPSR, 10 MHz Bandwidth, 1 RB, 0 RB Offset				GPSR, 10 MHz Bandwidth, 1 RB, 0 RB Offset				GPSR, 20 MHz Bandwidth, 1 RB, 0 RB Offset				GPSR, 20 MHz Bandwidth, 1 RB, 50 RB Offset			
Test Position		Back		Test Position		Back		Test Position		Back		Test Position		Back	
Frequency (MHz)		836.10		Frequency (MHz)		836.10		Frequency (MHz)		1770.10		Frequency (MHz)		1770.10	
Sequence		Sequence		Sequence		Sequence		Sequence		Sequence		Sequence		Sequence	
Measured IQ SNR (dB)		0.474		Measured IQ SNR (dB)		0.458		Measured IQ SNR (dB)		1.010		Measured IQ SNR (dB)		0.847	
Average Value of rms (msec) (dBm)				Average Value of rms (msec) (dBm)				Average Value of rms (msec) (dBm)				Average Value of rms (msec) (dBm)			
State 1		State 9		State 1		State 9		State 1		State 9		State 1		State 9	
Carrier (dBm)		-1.939		Carrier (dBm)		-1.939		Carrier (dBm)		-1.436		Carrier (dBm)		-1.471	
State 20		State 14		State 20		State 14		State 20		State 14		State 20		State 14	
Carrier (dBm)		-2.253		Carrier (dBm)		-2.253		Carrier (dBm)		-1.727		Carrier (dBm)		-1.727	
State 30		State 24		State 30		State 24		State 30		State 24		State 30		State 24	
Carrier (dBm)		-2.567		Carrier (dBm)		-2.567		Carrier (dBm)		-2.041		Carrier (dBm)		-2.041	
State 40		State 34		State 40		State 34		State 40		State 34		State 40		State 34	
Carrier (dBm)		-2.881		Carrier (dBm)		-2.881		Carrier (dBm)		-2.355		Carrier (dBm)		-2.355	
State 50		State 44		State 50		State 44		State 50		State 44		State 50		State 44	
Carrier (dBm)		-3.195		Carrier (dBm)		-3.195		Carrier (dBm)		-2.669		Carrier (dBm)		-2.669	
State 60		State 54		State 60		State 54		State 60		State 54		State 60		State 54	
Carrier (dBm)		-3.509		Carrier (dBm)		-3.509		Carrier (dBm)		-2.983		Carrier (dBm)		-2.983	
State 70		State 64		State 70		State 64		State 70		State 64		State 70		State 64	
Carrier (dBm)		-3.823		Carrier (dBm)		-3.823		Carrier (dBm)		-3.297		Carrier (dBm)		-3.297	
State 80		State 74		State 80		State 74		State 80		State 74		State 80		State 74	
Carrier (dBm)		-4.137		Carrier (dBm)		-4.137		Carrier (dBm)		-3.611		Carrier (dBm)		-3.611	
State 90		State 84		State 90		State 84		State 90		State 84		State 90		State 84	
Carrier (dBm)		-4.451		Carrier (dBm)		-4.451		Carrier (dBm)		-3.925		Carrier (dBm)		-3.925	
State 100		State 94		State 100		State 94		State 100		State 94		State 100		State 94	
Carrier (dBm)		-4.765		Carrier (dBm)		-4.765		Carrier (dBm)		-4.239		Carrier (dBm)		-4.239	
State 110		State 104		State 110		State 104		State 110		State 104		State 110		State 104	
Carrier (dBm)		-5.079		Carrier (dBm)		-5.079		Carrier (dBm)		-4.553		Carrier (dBm)		-4.553	
State 120		State 114		State 120		State 114		State 120		State 114		State 120		State 114	
Carrier (dBm)		-5.393		Carrier (dBm)		-5.393		Carrier (dBm)		-4.867		Carrier (dBm)		-4.867	
State 130		State 124		State 130		State 124		State 130		State 124		State 130		State 124	
Carrier (dBm)		-5.707		Carrier (dBm)		-5.707		Carrier (dBm)		-5.181		Carrier (dBm)		-5.181	
State 140		State 134		State 140		State 134		State 140		State 134		State 140		State 134	
Carrier (dBm)		-6.021		Carrier (dBm)		-6.021		Carrier (dBm)		-5.495		Carrier (dBm)		-5.495	
State 150		State 144		State 150		State 144		State 150		State 144		State 150		State 144	
Carrier (dBm)		-6.335		Carrier (dBm)		-6.335		Carrier (dBm)		-5.809		Carrier (dBm)		-5.809	
State 160		State 154		State 160		State 154		State 160		State 154		State 160		State 154	
Carrier (dBm)		-6.649		Carrier (dBm)		-6.649		Carrier (dBm)		-6.123		Carrier (dBm)		-6.123	
State 170		State 164		State 170		State 164		State 170		State 164		State 170		State	

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Table 13-6
NR Supplemental Body SAR Data

NR Band n71		NR Band n72		NR Band n73		NR Band n76		NR Band n25	
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, 50 RB, 28 RB Offset		CP-OFDM QPSK, 40 MHz Bandwidth, 1 RB, 1 RB Offset		CP-OFDM QPSK, 40 MHz Bandwidth, 1 RB, 1 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)	650.50	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)	0.465	Measured 1g SAR (W/kg)	0.500	Measured 1g SAR (W/kg)	0.533	Measured 1g SAR (W/kg)	0.898	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)	0.725	Auto-tune (State 0)	0.781	Auto-tune (State 39)	0.887	Auto-tune (State 28)	1.402	Auto-tune (State 0)	1.664
Default (State 0)	0.700	Default (State 0)	0.754	Default (State 0)	0.934	Default (State 0)	1.369	Default (State 0)	1.629
State 0	0.700	State 0	0.754	State 36	0.178	State 0	1.369	State 0	1.629
State 34	0.145	State 35	0.051	State 39	0.961	State 1	1.333	State 1	1.591
State 62	0.027	State 64	0.007	State 43	0.863	State 2	1.335	State 2	1.590
State 73	0.126	State 65	0.022	State 75	0.126	State 3	1.317	State 3	1.580
State 85	0.176	State 74	0.112	State 102	0.057	State 4	1.276	State 4	1.558
State 112	0.703	State 113	0.432	State 114	0.674	State 5	1.277	State 5	1.555
						State 6	1.203	State 6	1.467
						State 7	1.143	State 7	1.410
						State 8	1.050	State 8	1.310
						State 9	0.913	State 9	1.137
						State 10	0.814	State 10	1.001
						State 11	0.683	State 11	0.801
						State 12	0.612	State 12	0.769
						State 13	1.500	State 13	1.577
						State 14	1.495	State 14	1.591
						State 15	1.482	State 15	1.601
						State 16	1.471	State 16	1.585
						State 17	1.454	State 17	1.583
						State 18	1.453	State 18	1.577
						State 19	1.367	State 19	1.542
						State 20	1.347	State 20	1.513
						State 21	1.267	State 21	1.437
						State 22	1.124	State 22	1.283
						State 23	1.008	State 23	1.134
						State 24	0.836	State 24	0.942
						State 25	0.805	State 25	0.941
						State 26	1.084	State 26	1.517
						State 27	1.404	State 27	1.535
						State 28	1.410	State 28	1.537
						State 29	1.418	State 29	1.552
						State 30	1.409	State 30	1.555
						State 31	1.414	State 31	1.553
						State 32	1.407	State 32	1.538
						State 33	1.405	State 33	1.528
						State 34	1.379	State 34	1.452
						State 35	1.325	State 35	1.342
						State 36	1.251	State 36	1.228
						State 37	1.186	State 37	1.044
						State 38	0.902	State 38	0.769
						State 39	0.361	State 39	0.464
						State 40	0.393	State 40	0.488
						State 41	0.352	State 41	0.478
						State 42	0.343	State 42	0.468
						State 43	0.326	State 43	0.448
						State 44	0.332	State 44	0.451
						State 45	0.293	State 45	0.408
						State 46	0.296	State 46	0.374
						State 47	0.229	State 47	0.318
						State 48	0.178	State 48	0.242
						State 49	0.144	State 49	0.190
						State 50	0.162	State 50	0.136
						State 51	0.068	State 51	0.080
						State 52	1.161	State 52	1.355
						State 53	1.206	State 53	1.405
						State 54	1.207	State 54	1.417
						State 55	1.220	State 55	1.435
						State 56	1.226	State 56	1.443
						State 57	1.230	State 57	1.443
						State 58	1.269	State 58	1.481
						State 59	1.295	State 59	1.513
						State 60	1.318	State 60	1.523
						State 61	1.320	State 61	1.471
						State 62	1.245	State 62	1.386
						State 63	1.225	State 63	1.214
						State 64	1.015	State 64	0.905
						State 65	0.408	State 65	0.488
						State 66	0.466	State 66	0.579
						State 67	0.463	State 67	0.577
						State 68	0.458	State 68	0.567
						State 69	0.454	State 69	0.564
						State 70	0.472	State 70	0.591
						State 71	0.442	State 71	0.552
						State 72	0.419	State 72	0.527
						State 73	0.365	State 73	0.454
						State 74	0.288	State 74	0.349
						State 75	0.232	State 75	0.273
						State 76	0.186	State 76	0.174
						State 77	0.104	State 77	0.100
						State 78	0.785	State 78	0.795
						State 79	0.702	State 79	0.791
						State 80	0.680	State 80	0.774
						State 81	0.672	State 81	0.760
						State 82	0.650	State 82	0.741
						State 83	0.654	State 83	0.742
						State 84	0.589	State 84	0.665
						State 85	0.550	State 85	0.620
						State 86	0.482	State 86	0.533
						State 87	0.397	State 87	0.465
						State 88	0.336	State 88	0.382
						State 89	0.264	State 89	0.289
						State 90	0.181	State 90	0.186
						State 91	0.863	State 91	0.930
						State 92	0.903	State 92	0.964
						State 93	0.805	State 93	0.987
						State 94	0.889	State 94	0.970
						State 95	0.869	State 95	0.957
						State 96	0.870	State 96	0.981
						State 97	0.820	State 97	0.909
						State 98	0.768	State 98	0.854
						State 99	0.687	State 99	0.757
						State 100	0.674	State 100	0.614
						State 101	0.477	State 101	0.498
						State 102	0.367	State 102	0.371
						State 103	0.238	State 103	0.229
						State 104	1.414	State 104	1.647
						State 105	1.503	State 105	1.802
						State 106	1.386	State 106	1.560
						State 107	0.354	State 107	0.467
						State 108	1.168	State 108	1.372
						State 109	0.368	State 109	0.483
						State 110	0.735	State 110	0.859
						State 111	0.864	State 111	0.923
						State 112	1.391	State 112	1.659
						State 113	1.491	State 113	1.613
						State 114	1.389	State 114	1.565
						State 115	1.054	State 115	0.465
						State 116	1.161	State 116	1.381
						State 117	0.395	State 117	0.480
						State 118	0.727	State 118	0.866
						State 119	0.663	State 119	0.927

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13.1 LTE Band 41 Power Class 2 and Power Class 3 Linearity

This device supports Power Class 2 and Power Class 3 operations for LTE Band 41. The highest available duty cycle for Power Class 2 operations is 43.3 % using UL-DL configuration 1. Per May 2017 TCB Workshop Notes based on the device behavior, all SAR tests were performed using Power Class 3. SAR with Power Class 2 at the highest power and available duty factor was additionally performed for the Power Class 3 configuration with the highest SAR for each exposure condition. The linearity between the Power Class 2 and Power Class 3 SAR results and the respective frame averaged powers was calculated to determine that the results were linear. When ULCA is active, the linearity between the Power Class 2 with ULCA active and Power Class 3 with ULCA active SAR results and the respective frame averaged powers was calculated to determine that the results were linear. Per May 2017 TCB Workshop, no additional SAR measurements were required since the linearity between power classes was < 10% and all reported SAR values were < 1.4 W/kg for 1g and < 3.5 W/kg for 10g.

Table 13-7
LTE Band 41 Head Linearity Data

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	25.0	26.7
Measured Output Power (dBm)	24.06	25.65
Measured SAR (W/kg)	0.087	0.088
Measured Power (mW)	254.68	367.28
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	161.21	159.03
% deviation from expected linearity		2.54%

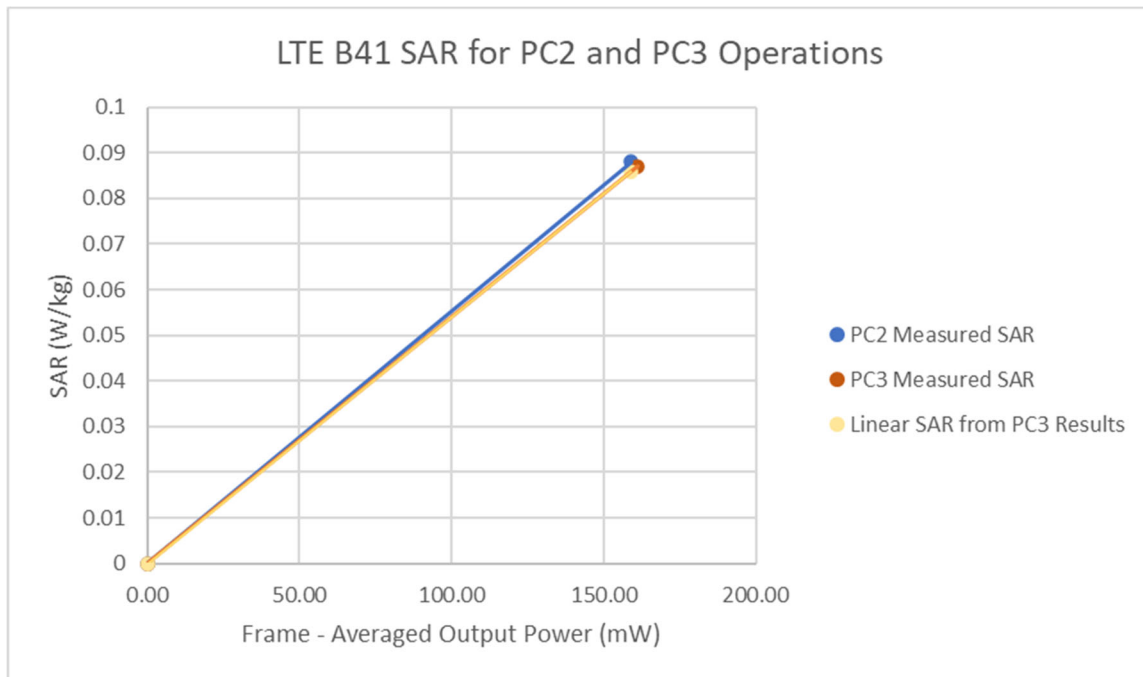


Figure 13-1
LTE Band 41 Head Linearity

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Table 13-8
LTE Band 41 ULCA Head Linearity Data

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	25.0	26.7
Measured Output Power (dBm)	23.78	25.54
Measured SAR (W/kg)	0.090	0.099
Measured Power (mW)	238.78	358.10
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	151.15	155.06
% deviation from expected linearity		7.23%

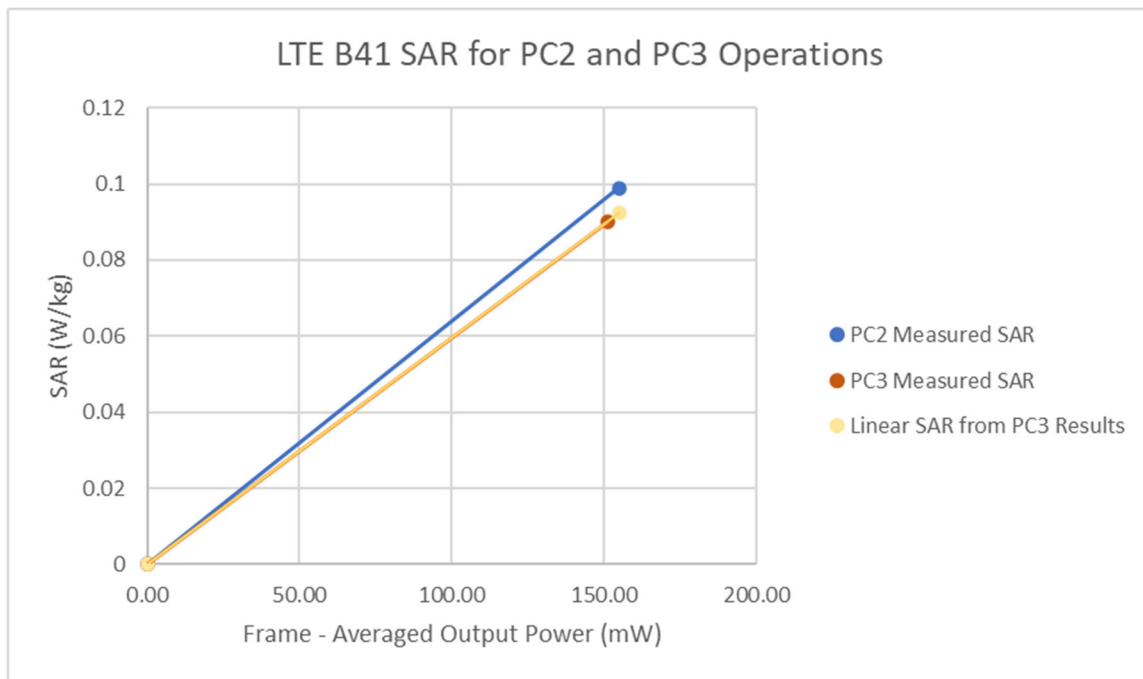


Figure 13-2
LTE Band 41 ULCA Head Linearity

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Table 13-9
LTE Band 41 Body-Worn Linearity Data

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	25.0	26.7
Measured Output Power (dBm)	24.06	25.65
Measured SAR (W/kg)	0.258	0.279
Measured Power (mW)	254.68	367.28
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	161.21	159.03
% deviation from expected linearity		9.62%

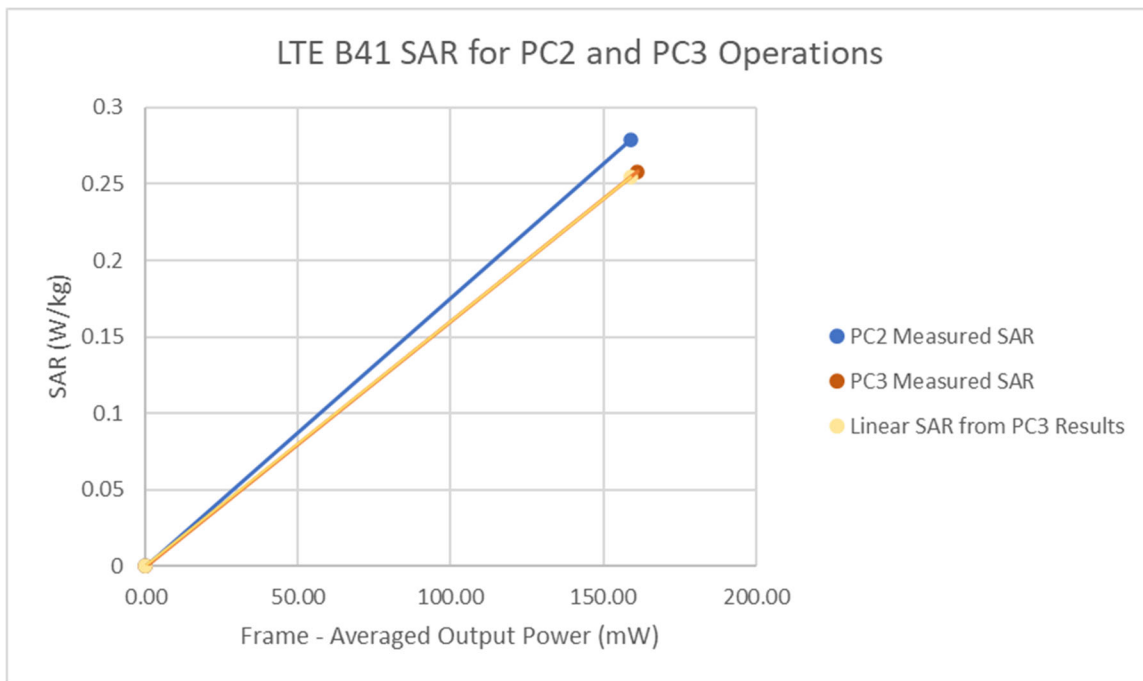


Figure 13-3
LTE Band 41 Body-Worn Linearity

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Table 13-10
LTE Band 41 ULCA Body-Worn Linearity Data

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	25.0	26.7
Measured Output Power (dBm)	23.78	25.54
Measured SAR (W/kg)	0.265	0.264
Measured Power (mW)	238.78	358.10
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	151.15	155.06
% deviation from expected linearity		-2.89%

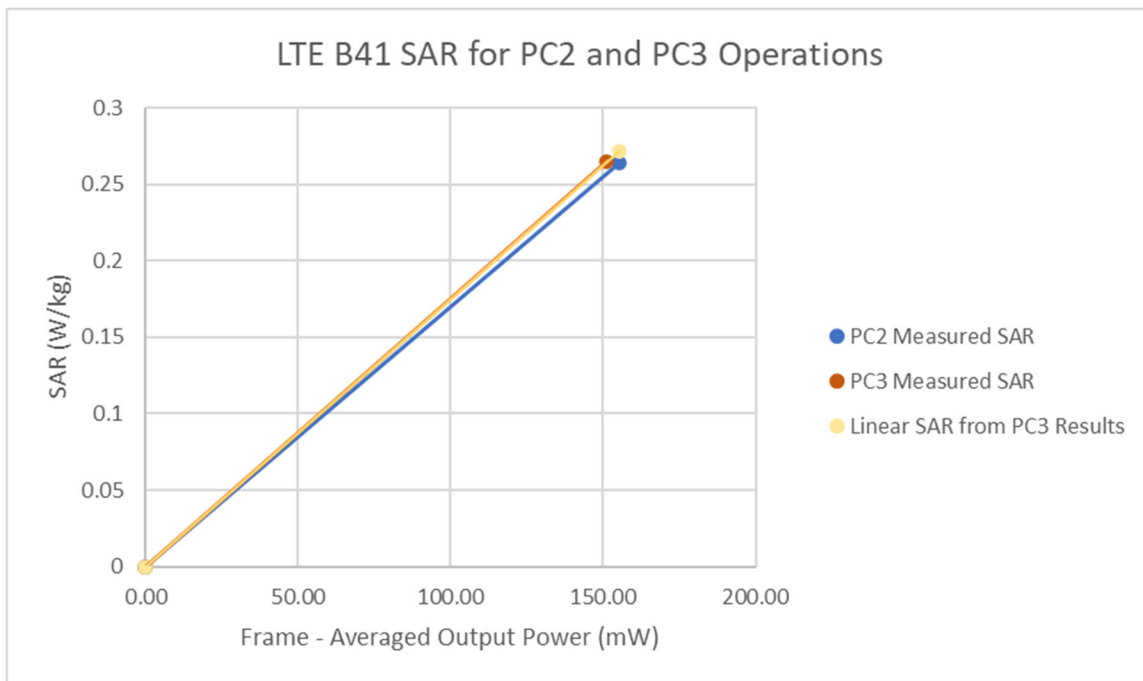


Figure 13-4
LTE Band 41 ULCA Body-Worn Linearity

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Table 13-11
LTE Band 41 Hotspot Linearity Data

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	22.0	23.7
Measured Output Power (dBm)	20.96	22.68
Measured SAR (W/kg)	0.224	0.239
Measured Power (mW)	124.74	185.35
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	78.96	80.26
% deviation from expected linearity		4.97%

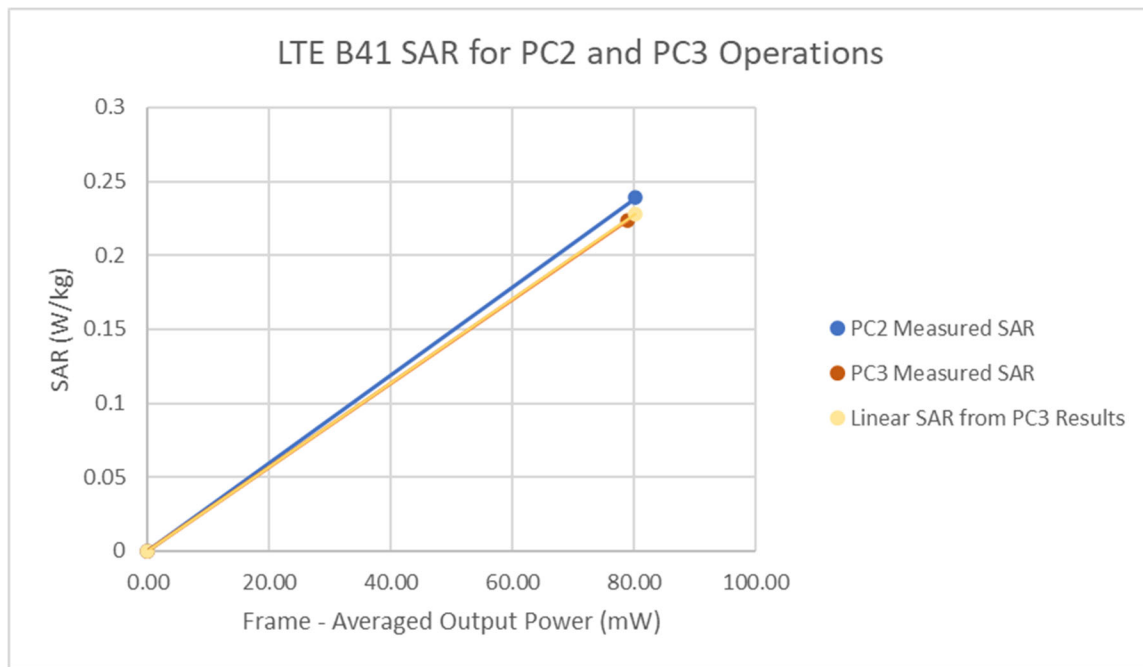


Figure 13-5
LTE Band 41 Hotspot Linearity

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Table 13-12
LTE Band 41 ULCA Hotspot Linearity Data

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	22.0	23.7
Measured Output Power (dBm)	20.71	22.42
Measured SAR (W/kg)	0.220	0.223
Measured Power (mW)	117.76	174.58
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	74.54	75.59
% deviation from expected linearity		-0.05%

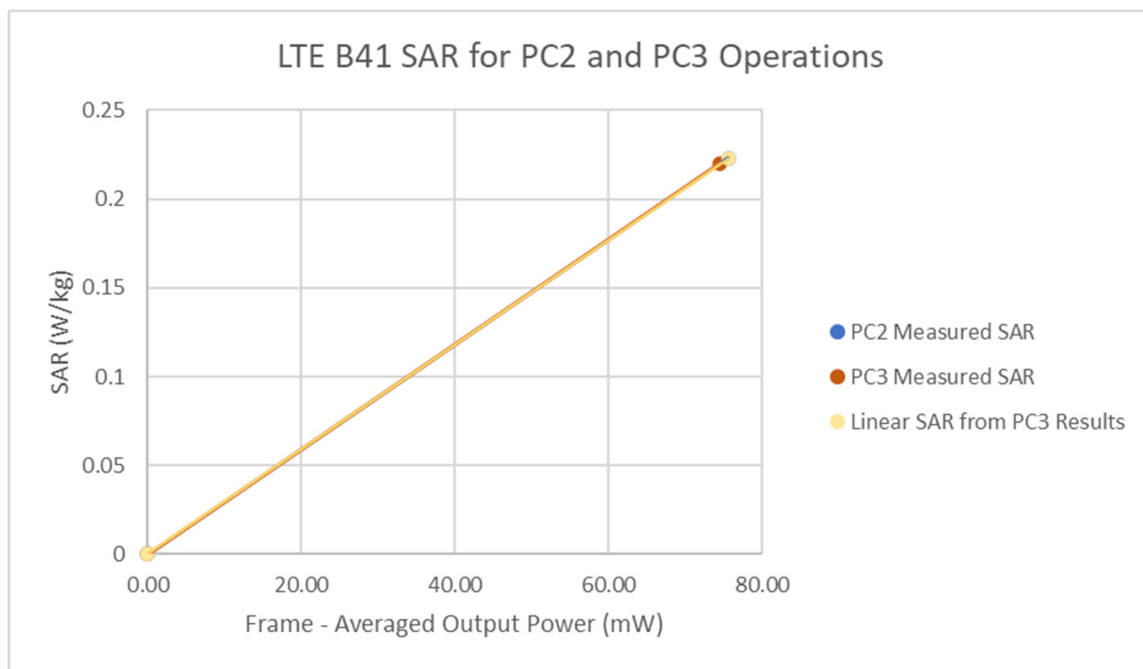


Figure 13-6
LTE Band 41 ULCA Hotspot Linearity

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Table 13-13
LTE Band 41 Phablet Linearity Data

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	25.00	26.70
Measured Output Power (dBm)	23.59	25.46
Measured SAR (W/kg)	1.580	1.500
Measured Power (mW)	228.56	351.56
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	144.68	152.23
% deviation from expected linearity		-9.77%

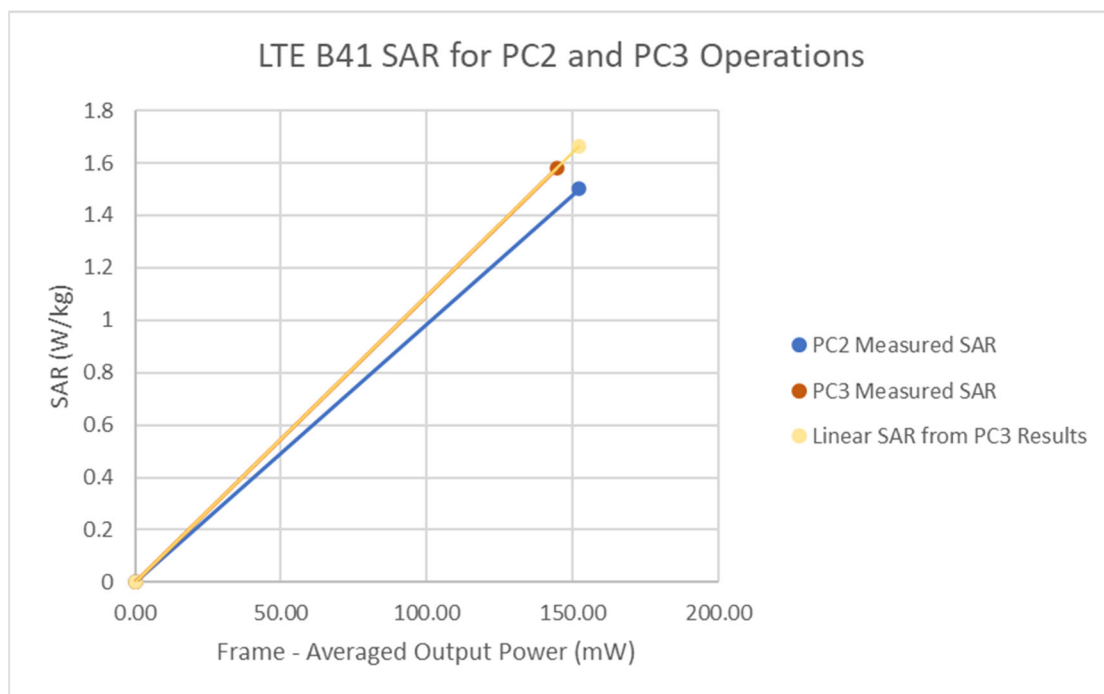


Figure 13-7
LTE Band 41 Phablet Linearity

FCC ID: A3LSMS901U	 Proud to be part of 	SAR EVALUATION REPORT		Approved by: Quality Manager
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Table 13-14
LTE Band 41 ULCA Phablet Linearity Data

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	25.0	26.7
Measured Output Power (dBm)	23.80	25.48
Measured SAR (W/kg)	1.640	1.580
Measured Power (mW)	239.88	353.18
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	151.85	152.93
% deviation from expected linearity		-4.34%

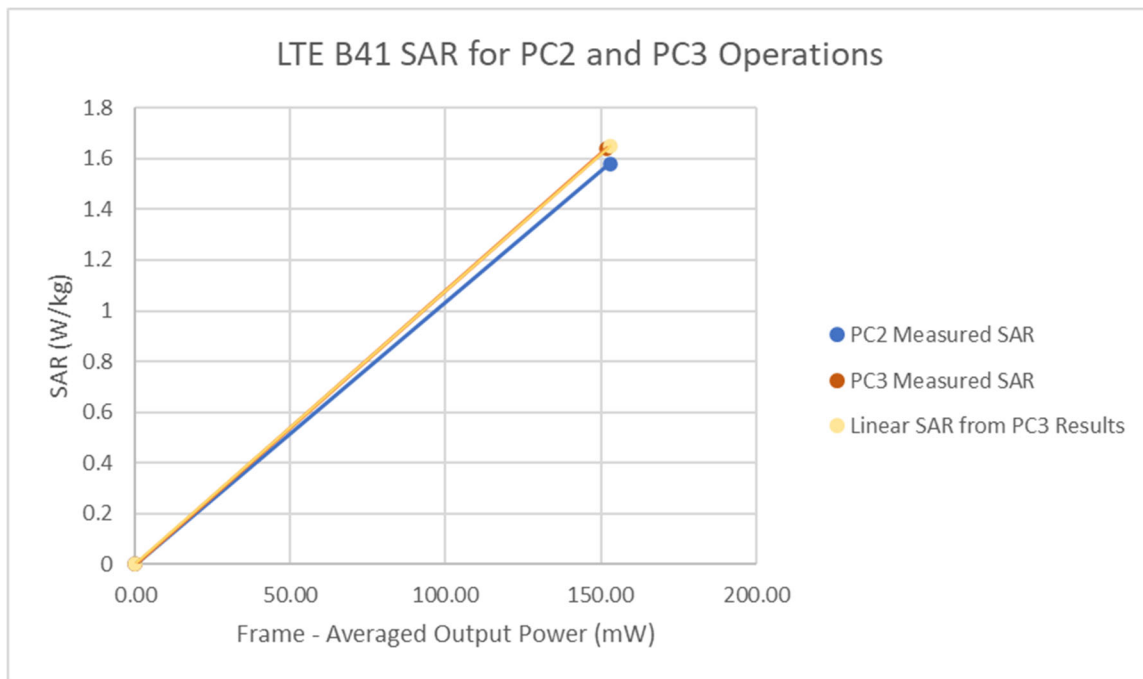


Figure 13-8
LTE Band 41 ULCA Phablet Linearity

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14 EQUIPMENT LIST

Manufacturer	Model	Description	Cal Date	Cal Interval	7/27 Date	Serial Number
Agilent	89036	3-Imm Standard Calibration Kit	7/27/2021	Annual	7/27/2021	M5Y340353
Agilent	89545	HPN 2-80GHz Spectrum Analyzer	CRT	N/A	CRT	350-140287
Agilent	89206	5-Parameter Vector Network Analyzer	12/15/2020	Annual	12/15/2020	HPN4000028
Agilent	87565	S-Parameter Vector Network Analyzer	2/27/2021	Annual	2/27/2021	US3701252
Agilent	44432B	ESG S-Series Signal Generator	2/24/2021	Annual	2/24/2021	US4403396
Agilent	44430C	ESG Vector Signal Generator	5/6/2021	Annual	5/6/2021	US4402629
Agilent	E5151C	Wireless Communications Test Set	2/4/2021	Annual	2/4/2021	084301895
Agilent	E5151C	Wireless Communications Test Set	2/6/2021	Annual	2/6/2021	084324078
Agilent	N4242A	Wireless Connectivity Test Set	N/A	N/A	N/A	084612904
Agilent	N5182A	Radio Signal Generator	6/15/2021	Annual	6/15/2021	HPN4124009
Agilent	N5182A	MMIO Vector Signal Generator	6/21/2021	Annual	6/21/2021	N41424003
Amplifier Research	15156G	Amplifier	CRT	N/A	CRT	303117
Amplifier Research	15156G	CRT	CRT	N/A	CRT	319468
Anritsu	ML260A	Power Meter	2/19/2021	Annual	2/19/2021	1180001
Anritsu	ML260A	Power Meter	4/21/2021	Annual	4/21/2021	1181001
Anritsu	MA2410A	USB Power Sensor	Annual	1/15/2021	1/15/2021	1184504
Anritsu	MA2410A	USB Power Sensor	1/15/2021	Annual	1/15/2021	1184901
Anritsu	MA2411B	Pulse Power Sensor	12/18/2020	Annual	12/18/2021	1176006
Anritsu	MA2411B	Pulse Power Sensor	5/9/2021	Annual	5/9/2021	1201471
Anritsu	ML100B	IQ Adapter	CRT	N/A	CRT	02612749
Anritsu	MT8821C	Radio Communication Analyzer	2/17/2021	Annual	2/17/2021	62001647
Anritsu	MT8821C	Radio Communication Analyzer	3/27/2021	Annual	3/27/2021	62004943
Anritsu	MT8821C	Radio Communication Analyzer	3/24/2021	Annual	3/24/2021	620014418
Anritsu	MT8821C	Radio Communication Analyzer	4/14/2021	Annual	4/14/2021	620189573
Anritsu	MT8821C	Radio Communication Analyzer	4/14/2021	Annual	4/14/2021	620091062
Anritsu	MT8821C	Radio Communication Analyzer	7/18/2021	Annual	7/18/2021	620120947
Anritsu	MT8800A	Radio Communication Test Station	7/28/2021	Annual	7/28/2021	627133149
COMETech	AR83729-5	Solid State Amplifier	CRT	N/A	CRT	M15440-000
COMETech	AR83729-5	Solid State Amplifier	CRT	N/A	CRT	M15440-000
Control Company	4040	Thermi /CCT/ Humidity Monitor	2/17/2020	Biannual	2/17/2021	200011309
Control Company	4040	Thermi /CCT/ Humidity Monitor	2/17/2020	Biannual	2/17/2021	200011374
Control Company	4352	Long Span Thermometer	1/24/2020	Biannual	1/24/2021	200004148
Control Company	4352	Long Span Thermometer	1/24/2020	Biannual	1/24/2021	200005434
Keysight	1198B-150	Digital Calliper	1/17/2020	Biannual	1/17/2020	409189336
Keysight	772D	Data Directional Coupler	3/2/2021	Annual	3/2/2021	M5Y320583
Keysight Technologies	N6789A	DC Power Analyser	5/15/2021	Triennial	5/15/2021	M5Y320659
Keysight Technologies	N9920A	MSA Signal Analyzer	2/24/2021	Annual	2/24/2021	M146002233
MCL	BW 82000A	820B Attenuator	CRT	N/A	CRT	1127
MiniCircuits	SLP-42000	SFP Amplifier	CRT	N/A	CRT	8887620003
MiniCircuits	VF-60000	Low Pass Filter	CRT	N/A	CRT	N/A
MiniCircuits	WF-K2005	Power Attenuator	CRT	N/A	CRT	1226
MiniCircuits	WF-K2005	DC to 15GHz Preset Filter 20 dB Attenuator	CRT	N/A	CRT	1004
MiniCircuits	NLP-1200A	Low Pass Filter Dc to 1200 MHz	CRT	N/A	CRT	N/A
MiniCircuits	NLP-2500A	Low Pass Filter Dc to 2700 MHz	CRT	N/A	CRT	N/A
MiniCircuits	NPL-114-23	Low Pass Filter	CRT	N/A	CRT	Q44183003
Narda	4014-C	4 & 8 GHz SMA & DC Directional Coupler	CRT	N/A	CRT	N/A
Narda	477-3	Attenuator (NBB)	CRT	N/A	CRT	8426
Narda	NR-130J	Attenuator (NBB)	CRT	N/A	CRT	120
Pasternack	NC-100	Torque Wrench	8/4/2020	Biannual	8/4/2021	1445
Pasternack	PC220B-10	Torque Wrench	8/4/2020	Biannual	8/4/2021	N/A
Pasternack	PC220B-6	Reduction Coupler	CRT	N/A	CRT	N/A
Pasternack	PC220B-6	Reduction Coupler	CRT	N/A	CRT	N/A
Rohde & Schwarz	CMW500	Radio Communication Tester	3/19/2021	Annual	3/19/2021	111427
Rohde & Schwarz	CMW500	Radio Communication Tester	2/18/2021	Annual	2/18/2021	102767
Rohde & Schwarz	CMW500	Radio Communication Tester	2/18/2021	Annual	2/18/2021	104468
Rohde & Schwarz	CMW500	Radio Communication Tester	3/19/2021	Annual	3/19/2021	12

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

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15 MEASUREMENT UNCERTAINTIES

a	b	c	d	e= f(d,k)	f	g	h = c x f/e	i = c x g/e	k
Uncertainty Component	IEEE 1528 Sec.	Tol. (± %)	Prob. Dist.	Div.	c _i 1gm	c _i 10 gms	1gm u _i (± %)	10gms u _i (± %)	v _i
Measurement System									
Probe Calibration	E.2.1	7	N	1	1	1	7.0	7.0	∞
Axial Isotropy	E.2.2	0.25	N	1	0.7	0.7	0.2	0.2	∞
Hemishperical Isotropy	E.2.2	1.3	N	1	0.7	0.7	0.9	0.9	∞
Boundary Effect	E.2.3	2	R	1.732	1	1	1.2	1.2	∞
Linearity	E.2.4	0.3	N	1	1	1	0.3	0.3	∞
System Detection Limits	E.2.4	0.25	R	1.732	1	1	0.1	0.1	∞
Modulation Response	E.2.5	4.8	R	1.732	1	1	2.8	2.8	∞
Readout Electronics	E.2.6	0.3	N	1	1	1	0.3	0.3	∞
Response Time	E.2.7	0.8	R	1.732	1	1	0.5	0.5	∞
Integration Time	E.2.8	2.6	R	1.732	1	1	1.5	1.5	∞
RF Ambient Conditions - Noise	E.6.1	3	R	1.732	1	1	1.7	1.7	∞
RF Ambient Conditions - Reflections	E.6.1	3	R	1.732	1	1	1.7	1.7	∞
Probe Positioner Mechanical Tolerance	E.6.2	0.8	R	1.732	1	1	0.5	0.5	∞
Probe Positioning w/ respect to Phantom	E.6.3	6.7	R	1.732	1	1	3.9	3.9	∞
Extrapolation, Interpolation & Integration algorithms for Max. SAR Evaluation	E.5	4	R	1.732	1	1	2.3	2.3	∞
Test Sample Related									
Test Sample Positioning	E.4.2	3.12	N	1	1	1	3.1	3.1	35
Device Holder Uncertainty	E.4.1	1.67	N	1	1	1	1.7	1.7	5
Output Power Variation - SAR drift measurement	E.2.9	5	R	1.732	1	1	2.9	2.9	∞
SAR Scaling	E.6.5	0	R	1.732	1	1	0.0	0.0	∞
Phantom & Tissue Parameters									
Phantom Uncertainty (Shape & Thickness tolerances)	E.3.1	7.6	R	1.73	1.0	1.0	4.4	4.4	∞
Liquid Conductivity - measurement uncertainty	E.3.3	4.3	N	1	0.78	0.71	3.3	3.0	76
Liquid Permittivity - measurement uncertainty	E.3.3	4.2	N	1	0.23	0.26	1.0	1.1	75
Liquid Conductivity - Temperature Uncertainty	E.3.4	3.4	R	1.732	0.78	0.71	1.5	1.4	∞
Liquid Permittivity - Temperature Uncertainty	E.3.4	0.6	R	1.732	0.23	0.26	0.1	0.1	∞
Liquid Conductivity - deviation from target values	E.3.2	5.0	R	1.73	0.64	0.43	1.8	1.2	∞
Liquid Permittivity - deviation from target values	E.3.2	5.0	R	1.73	0.60	0.49	1.7	1.4	∞
Combined Standard Uncertainty (k=1)							RSS	12.2	12.0
Expanded Uncertainty (95% CONFIDENCE LEVEL)							k=2	24.4	24.0

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

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16 CONCLUSION

16.1 Measurement Conclusion

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

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

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