



PART 0 SAR CHAR REPORT

Applicant Name:
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Date of Testing:
12/28/2020 – 03/03/2021
Test Site/Location:
PCTEST Lab, Morgan Hill, CA, USA
Document Serial No.:
1C2101020005-34.BCG (Rev1)

FCC ID: BCGA2379

APPLICANT: APPLE, INC.

Report Type: Part 0 SAR Characterization
DUT Type: Tablet Device
Model(s): A2379

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

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

Test results reported herein relate only to the item(s) tested.


Randy Ortanez
President


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APPENDIX A: SAR TEST RESULTS FOR P_{Limit} CALCULATIONS

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1 DEVICE UNDER TEST

1.1 Device Overview

Band & Mode	Operating Modes	Tx Frequency
GPRS/EDGE 850	Data	824.20 - 848.80 MHz
GPRS/EDGE 1900	Data	1850.20 - 1909.80 MHz
UMTS 850	Data	826.40 - 846.60 MHz
UMTS 1750	Data	1712.4 - 1752.6 MHz
UMTS 1900	Data	1852.4 - 1907.6 MHz
LTE Band 71	Data	665.5 - 695.5 MHz
LTE Band 12	Data	699.7 - 715.3 MHz
LTE Band 17	Data	706.5 - 713.5 MHz
LTE Band 13	Data	779.5 - 784.5 MHz
LTE Band 14	Data	790.5 - 795.5 MHz
LTE Band 26 (Cell)	Data	814.7 - 848.3 MHz
LTE Band 5 (Cell)	Data	824.7 - 848.3 MHz
LTE Band 4 (AWS)	Data	1710.7 - 1754.3 MHz
LTE Band 66 (AWS)	Data	1710.7 - 1779.3 MHz
LTE Band 2 (PCS)	Data	1850.7 - 1909.3 MHz
LTE Band 25 (PCS)	Data	1850.7 - 1914.3 MHz
LTE Band 30	Data	2307.5 - 2312.5 MHz
LTE Band 7	Data	2502.5 - 2567.5 MHz
LTE Band 41	Data	2498.5 - 2687.5 MHz
LTE Band 48	Data	3552.5 - 3697.5 MHz
NR Band n71	Data	665.5 - 695.5 MHz
NR Band n12	Data	701.5 - 713.5 MHz
NR Band n5 (Cell)	Data	826.5 - 846.5 MHz
NR Band n66 (AWS)	Data	1712.5 - 1777.5 MHz
NR Band n25 (PCS)	Data	1852.5 - 1912.5 MHz
NR Band n2 (PCS)	Data	1852.5 - 1907.5 MHz
NR Band n41	Data	2510.01 - 2679.99 MHz
NR Band n77	Data	3710.01 - 3969.99 MHz
2.4 GHz WLAN	Voice/Data	2412 - 2472 MHz
U-NII-1	Voice/Data	5180 - 5240 MHz
U-NII-2A	Voice/Data	5260 - 5320 MHz
U-NII-2C	Voice/Data	5500 - 5720 MHz
U-NII-3	Voice/Data	5745 - 5825 MHz
Bluetooth	Data	2402 - 2480 MHz
NR Band n260	Data	37000 - 40000 MHz
NR Band n261	Data	27500 - 28350 MHz

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This device uses the Qualcomm® Smart Transmit feature to control and manage transmitting power in real time and to ensure the time-averaged RF exposure is in compliance with the FCC requirement at all times for 2G/3G/4G/5G WWAN operations. Additionally, this device supports WLAN/BT technologies, but the output power of these modems is not controlled by the Smart Transmit algorithm.

1.2 Time-Averaging for SAR

This device is enabled with Qualcomm® Smart Transmit algorithm to control and manage transmitting power in real time and to ensure that the time-averaged RF exposure from 2G/3G/4G/5G Sub-6 NR WWAN is in compliance with FCC requirements. This Part 0 report shows SAR characterization of WWAN radios for 2G/3G/4G/5G Sub-6 NR. Characterization is achieved by determining P_{Limit} for 2G/3G/4G/5G Sub-6 NR that corresponds to the exposure design targets after accounting for all device design related uncertainties, i.e., SAR_design_target (< FCC SAR limit) for sub-6 radio. The SAR characterization is denoted as SAR Char in this report. Section 1.3 includes a nomenclature of the specific terms used in this report.

The compliance test under the static transmission scenario and simultaneous transmission analysis are reported in Part 1 report. The validation of the time-averaging algorithm and compliance under the dynamic (time-varying) transmission scenario for WWAN technologies are reported in Part 2 report (report SN could be found in Section 1.4 – Bibliography).

1.3 Nomenclature for Part 0 Report

Technology	Term	Description
2G/3G/4G/5G Sub-6 NR	P_{limit}	Power level that corresponds to the exposure design target (<i>SAR_design_target</i>) after accounting for all device design related uncertainties
	P_{max}	Maximum tune up output power
	<i>SAR_design_target</i>	Target SAR level < FCC SAR limit after accounting for all device design related uncertainties
	<i>SAR Char</i>	Table containing P_{limit} for all technologies and bands

1.4 Bibliography

Report Type	Report Serial Number
FCC Part 0 PD Characterization Report	1C2101020005-18.BCG
FCC SAR Evaluation Report (Part 1)	1C2101020005-01.BCG
FCC PD Evaluation Report (Part 1)	1C2101020005-19.BCG
RF Exposure Part 2 Test Report	1C2101020005-20.BCG
RF Exposure Compliance Summary	1C2101020005-21.BCG

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2 SAR AND POWER DENSITY MEASUREMENTS

2.1 SAR Definition

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

Equation 2-1
SAR Mathematical Equation

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

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

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

where:

σ	=	conductivity of the tissue-simulating material (S/m)
ρ	=	mass density of the tissue-simulating material (kg/m ³)
E	=	Total RMS electric field strength (V/m)

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

2.2 SAR 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 2-1) and IEEE 1528-2013.
2. Table 2-1) and IEEE 1528-2013.
3. 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.

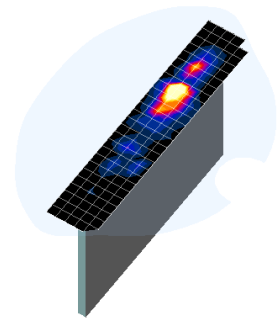


Figure 2-1
Sample SAR Area Scan

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4. 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 2 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
 - b. Table 2-1. 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).
 - c. 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.
 - d. All neighboring volumes were evaluated until no neighboring volume with a higher average value was found.
5. The SAR reference value, at the same location as step 2, was re-measured after the zoom scan was complete to calculate the SAR drift. If the drift deviated by more than 5%, the SAR test and drift measurements were repeated.

Table 2-1
Area and Zoom Scan Resolutions per FCC KDB Publication 865664 D01v01r04*

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

*Also compliant to IEEE 1528-2013 Table 6

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3 SAR CHARACTERIZATION

3.1 DSI and SAR Determination

This device uses different Device State Index (DSI) to configure different time averaged power levels based on certain exposure scenarios. Depending on the detection scheme implemented in the tablet, the worst-case SAR was determined by measurements for the relevant exposure conditions for that DSI. Detailed descriptions of the detection mechanisms are included in the operational description.

The device state index (DSI) conditions used in Table 3-1 represent different exposure scenarios.

Table 3-1
DSI and Corresponding Exposure Scenarios

Scenario	Description	SAR Test Cases
(DSI = 1)	▪ Detect Mode Activated	<i>Tablet SAR per KDB Publication 616217 D04</i>

3.2 SAR Design Target

SAR_design_target is determined by ensuring that it is less than FCC SAR limit after accounting for total device designed related uncertainties specified by the manufacturer (see Table 3-2).

Table 3-2
***SAR_design_target* Calculations**

<i>SAR_design_target</i>	
$SAR_design_target < SAR_regulatory_limit \times 10^{\frac{-Total\ Uncertainty}{10}}$	
1g SAR (W/kg)	
<i>Total Uncertainty</i>	1.0 dB
<i>SAR_regulatory_limit</i>	1.6 W/kg
<i>SAR_design_target</i>	0.8 W/kg

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3.3 SAR Char

SAR test results corresponding to P_{max} for each antenna/technology/band/DSI can be found in Appendix A.

P_{limit} is calculated by linearly scaling with the measured SAR at the P_{part0} to correspond to the SAR_{design_target} . When $P_{limit} < P_{max}$, P_{part0} was used as P_{limit} in the Smart Transmit EFS. When $P_{limit} > P_{max}$ and $P_{part0}=P_{max}$, calculated P_{limit} was used in the Smart Transmit EFS. All reported SAR obtained from the P_{part0} SAR tests was less than $SAR_{Design_target}+ 1$ dB Uncertainty. The final P_{limit} determination for each exposure scenario corresponding to SAR_{design_target} are shown in Table 3-3.

Table 3-3
 P_{Limit} Determination

Device State Index (DSI)	P_{Limit} Determination Scenarios
1	The worst-case SAR exposure is determined as maximum SAR normalized to the limit among: 1. Tablet SAR measured at 0 mm for Back, Top, Bottom, Right, Left surfaces

Note:

For DSI = 1, P_{limit} is calculated by:

P_{limit} corresponding to 1g Tablet SAR evaluation at 0 mm for back, top, bottom, left and right surfaces

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Table 3-4
SAR Characterizations

Exposure Scenario:	Ant 3 Body	Ant 3 Maximum Tune-up Output Power*	Ant 1 Body	Ant 1 Maximum Tune-up Output Power*	Ant 4a/4b Body	Ant 4a/4b Maximum Tune-up Output Power*	Ant 2a/2b Body	Ant 2a/2b Maximum Tune-up Output Power*
Averaging Volume:	1g		1g		1g		1g	
Spacing:	0 mm		0 mm		0 mm		0 mm	
DSI:	1		1		1		1	
Technology/Band	Plimit corresponding to 0.8mW/g	Pmax	Plimit corresponding to 0.8mW/g	Pmax	Plimit corresponding to 0.8mW/g	Pmax	Plimit corresponding to 0.8mW/g	Pmax
GPRS/EDGE 850 MHz	18.01	24.81	18.61	23.31	N/A	N/A	N/A	N/A
GPRS/EDGE 1900 MHz	15.31	22.81	15.51	20.31	10.81	22.81	12.81	20.31
UMTS B5	18.20	24.70	18.00	22.90	N/A	N/A	N/A	N/A
UMTS B4	15.00	24.70	14.70	21.70	12.70	24.20	12.40	22.20
UMTS B2	14.90	24.70	16.10	21.70	11.00	24.20	12.70	22.20
LTE FDD B71	19.30	24.70	19.60	22.90	N/A	N/A	N/A	N/A
LTE FDD B12	18.60	24.70	19.20	22.90	N/A	N/A	N/A	N/A
LTE FDD B17	18.60	24.70	19.20	22.90	N/A	N/A	N/A	N/A
LTE FDD B13	18.70	24.70	19.80	22.90	N/A	N/A	N/A	N/A
LTE FDD B14	18.70	24.70	19.80	22.90	N/A	N/A	N/A	N/A
LTE FDD B26	18.20	24.70	18.00	22.90	N/A	N/A	N/A	N/A
LTE FDD B5	18.20	24.70	18.00	22.90	N/A	N/A	N/A	N/A
LTE FDD B66/4	15.00	24.70	14.70	21.70	12.70	24.20	12.40	22.20
LTE FDD B25/2	14.90	24.70	16.10	21.70	11.00	24.20	12.70	22.20
LTE FDD B30	14.30	22.70	12.80	19.20	11.50	22.20	13.30	19.70
LTE FDD B7	14.70	24.70	10.70	21.20	11.10	24.20	13.30	21.70
LTE TDD B48	9.71	17.80	10.81	15.52	10.41	16.92	10.81	17.72
LTE TDD B41 PC3	11.31	22.72	10.51	18.92	11.31	22.22	13.01	19.42
LTE TDD B41 ULCA PC3	11.31	22.72	10.51	19.22	11.31	22.22	13.01	19.72
LTE TDD B41 PC2	11.31	23.07	10.51	19.57	11.31	22.57	13.01	20.07
LTE TDD B41 ULCA PC2	11.31	23.37	10.51	19.87	11.31	22.87	13.01	20.37
NR FDD n71	19.30	24.70	20.10	22.90	N/A	N/A	N/A	N/A
NR FDD n12	18.60	24.70	19.20	22.90	N/A	N/A	N/A	N/A
NR FDD n5	18.20	24.70	18.00	22.90	N/A	N/A	N/A	N/A
NR FDD n66	15.00	24.70	14.70	21.70	12.70	24.20	12.40	22.20
NR FDD n25/n2	14.90	24.70	16.10	21.70	11.00	24.20	12.70	22.20
NR TDD n41 PC3	11.30	21.20	10.50	24.70	11.30	21.70	13.00	24.20
NR TDD n41 PC2	11.30	20.00	10.50	23.50	11.30	20.00	13.00	23.00
NR TDD n77 PC3	10.00	24.70	11.50	20.70	10.75	24.70	9.60	21.70
NR TDD n77 PC2	10.00	23.00	11.50	19.00	10.75	23.00	9.60	20.00

Notes:

- When $P_{max} < P_{limit}$, the DUT will operate at a power level up to P_{max} .

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4 EQUIPMENT LIST

For SAR measurements

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
Agilent	8753ES	S-Parameter Network Analyzer	9/16/2020	Annual	9/16/2021	MY4000670
Agilent	E4438C	ESG Vector Signal Generator	12/2/2020	Annual	12/2/2021	MY42081752
Agilent	E5515C	Wireless Communications Test Set	12/15/2020	Annual	12/15/2021	GB42361078
Agilent	N5182A	MXG Vector Signal Generator	9/25/2020	Annual	9/25/2021	US46240505
Agilent	N5182A	MXG Vector Signal Generator	12/1/2020	Annual	12/1/2021	MY47420837
Agilent	N9020A	MXA Signal Analyzer	12/21/2020	Annual	12/21/2021	MY50200571
Amplifier Research	150A100C	Amplifier	CBT	N/A	CBT	350132
Amplifier Research	15S1G6	Amplifier	CBT	N/A	CBT	343972
Amplifier Research	15S1G6	Amplifier	CBT	N/A	CBT	343971
Anritsu	MA24106A	USB Power Sensor	9/15/2020	Annual	9/15/2021	1244515
Anritsu	MA24106A	USB Power Sensor	9/15/2020	Annual	9/15/2021	1248508
Anritsu	MA24106A	USB Power Sensor	6/8/2020	Annual	6/8/2021	2018534
Anritsu	MA24106A	USB Power Sensor	6/3/2020	Annual	6/3/2021	2018527
Anritsu	MA2411B	Pulse Power Sensor	12/18/2020	Annual	12/18/2021	1126066
Anritsu	ML2495A	Power Meter	11/3/2020	Annual	11/3/2021	1039008
Anritsu	MT8820C	Radio Communication Analyzer	9/30/2020	Annual	9/30/2021	6201240328
Anritsu	MT8821C	Radio Communication Analyzer	5/21/2020	Annual	5/21/2021	6201144419
Control Company	4040	Therm./Clock/Humidity Monitor	6/29/2019	Biennial	6/29/2021	192291470
Control Company	4040	Therm./Clock/Humidity Monitor	6/29/2019	Biennial	6/29/2021	192291455
Control Company	4040	Therm./Clock/Humidity Monitor	6/29/2019	Biennial	6/29/2021	192291460
Control Company	4353	Long Stem Thermometer	10/28/2020	Biennial	10/28/2022	200670646
Control Company	4353	Long Stem Thermometer	10/28/2020	Biennial	10/28/2022	200670653
Insight	1108-150	Digital Caliper	1/17/2020	Biennial	1/17/2022	409193536
KEYSIGHT	E4438C	VECTOR SIGNAL GENERATOR	6/22/2020	Annual	6/22/2021	MY45092078
MCL	BW-N10W5+	10dB Attenuator	CBT	N/A	CBT	1611
MCL	BW-N3W5+	3dB Attenuator	CBT	N/A	CBT	1812
MCL	BW-N6W5+	6dB Attenuator	CBT	N/A	CBT	1311
Mini-Circuits	NLP-1000+	Low Pass Filter	CBT	N/A	CBT	N/A
Mini-Circuits	NLP-1200+	Low Pass Filter	CBT	N/A	CBT	N/A
Mini-Circuits	NLP-2950+	Low Pass Filter	CBT	N/A	CBT	N/A
Mini-Circuits	VL6-6000+	Low Pass Filter	CBT	N/A	CBT	N/A
Mini-Circuits	ZHDC-16-63-5+	50-6000MHz Bidirectional Coupler	CBT	N/A	CBT	N/A
Pasternack	PE2208-6	Bidirectional Coupler	CBT	N/A	CBT	N/A
Rohde & Schwarz	CMW500	Radio Communication Tester	5/13/2020	Annual	5/13/2021	167284
Rohde & Schwarz	CMW500	Radio Communication Tester	4/28/2020	Annual	4/28/2021	167285
Rohde & Schwarz	FSP-7	Spectrum Analyzer	1/9/2020	Biennial	1/9/2022	100990
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	9/17/2020	Annual	9/17/2021	145663
Rosenberger	32W1006-016	Torque Wrench	12/1/2020	Annual	12/1/2021	N/A
SPEAG	D1750V2	1750 MHz SAR Dipole	5/15/2018	Triennial	5/15/2021	1092
SPEAG	D1750V2	1750 MHz SAR Dipole	6/19/2019	Biennial	6/19/2021	1083
SPEAG	D1900V2	1900 MHz SAR Dipole	9/10/2020	Annual	9/10/2021	56181
SPEAG	D1900V2	1900 MHz SAR Dipole	5/14/2018	Triennial	5/14/2021	50026
SPEAG	D1900V2	1900 MHz SAR Dipole	6/19/2019	Biennial	6/19/2021	50030
SPEAG	D2300V2	2300 MHz SAR Dipole	3/7/2018	Triennial	3/7/2021	1038
SPEAG	D2450V2	2450 MHz SAR Dipole	11/12/2018	Triennial	11/12/2021	921
SPEAG	D2450V2	2450 MHz SAR Dipole	5/16/2018	Triennial	5/16/2021	945
SPEAG	D2600V2	2600 MHz SAR Dipole	11/12/2019	Biennial	11/12/2021	1071
SPEAG	D2600V2	2600 MHz SAR Dipole	9/9/2020	Annual	9/9/2021	1069
SPEAG	D2600V2	2600 MHz SAR Dipole	6/19/2018	Triennial	6/19/2021	1009
SPEAG	D3500V2	3500 MHz SAR Dipole	8/16/2019	Biennial	8/16/2021	1055
SPEAG	D3700V2	3700 MHz SAR Dipole	10/17/2019	Biennial	10/17/2021	1002
SPEAG	D3900V2	SAR DIPOLE	11/13/2020	Annual	11/13/2021	1062
SPEAG	D5GHzV2	5 GHz SAR Dipole	9/13/2018	Triennial	9/13/2021	1163
SPEAG	D750V3	750 MHz SAR Dipole	5/18/2018	Triennial	5/18/2021	1034
SPEAG	D835V2	835 MHz SAR Dipole	6/20/2019	Biennial	6/20/2021	40404
SPEAG	D850V2	850 MHz SAR Dipole	9/8/2020	Annual	9/8/2021	1010
SPEAG	DAE4	Dasy Data Acquisition Electronics	10/12/2020	Annual	10/12/2021	1364
SPEAG	DAE4	Dasy Data Acquisition Electronics	10/12/2020	Annual	10/12/2021	1213
SPEAG	DAE4	Dasy Data Acquisition Electronics	3/19/2020	Annual	3/19/2021	604
SPEAG	DAE4	Dasy Data Acquisition Electronics	1/14/2020	Annual	1/13/2022	793
SPEAG	DAE4	Dasy Data Acquisition Electronics	2/13/2020	Annual	2/13/2021	1403
SPEAG	DAE4	Dasy Data Acquisition Electronics	6/11/2020	Annual	6/11/2021	701
SPEAG	DAE4	Data Acquisition Electronics	4/14/2020	Annual	4/14/2021	1532
SPEAG	EX3DV4	SAR Probe	6/22/2020	Annual	6/22/2021	7416
SPEAG	EX3DV4	SAR Probe	10/21/2020	Annual	10/21/2021	7420
SPEAG	EX3DV4	SAR Probe	1/20/2020	Annual	1/18/2022	3837
SPEAG	EX3DV4	SAR Probe	2/19/2020	Annual	2/19/2021	7427
SPEAG	EX3DV4	SAR Probe	3/20/2020	Annual	3/20/2021	7421
SPEAG	EX3DV4	SAR Probe	7/16/2020	Annual	7/16/2021	7546
SPEAG	EX3DV4	SAR Probe	10/21/2020	Annual	10/21/2021	7558
SPEAG	DAKS-3.5	Portable DAK	9/9/2020	Annual	9/9/2021	1045

Note:

1. 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.
2. Each equipment item was used solely within its respective calibration period.

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5 MEASUREMENT UNCERTAINTIES

For SAR Measurements

a	c	d	e = f(d,k)	f	g	h = c x f/e	i = c x g/e	k
Uncertainty Component	Tol. (± %)	Prob. Dist.	Div.	c _i 1gm	c _i 10 gms	1gm u _i (± %)	10gms u _i (± %)	v _i
Measurement System								
Probe Calibration	6.55	N	1	1.0	1.0	6.6	6.6	∞
Axial Isotropy	0.25	N	1	0.7	0.7	0.2	0.2	∞
Hemishperical Isotropy	1.3	N	1	0.7	0.7	0.9	0.9	∞
Boundary Effect	2.0	R	1.73	1.0	1.0	1.2	1.2	∞
Linearity	0.3	N	1	1.0	1.0	0.3	0.3	∞
System Detection Limits	0.25	R	1.73	1.0	1.0	0.1	0.1	∞
Readout Electronics	0.3	N	1	1.0	1.0	0.3	0.3	∞
Response Time	0.8	R	1.73	1.0	1.0	0.5	0.5	∞
Integration Time	2.6	R	1.73	1.0	1.0	1.5	1.5	∞
RF Ambient Conditions - Noise	3.0	R	1.73	1.0	1.0	1.7	1.7	∞
RF Ambient Conditions - Reflections	3.0	R	1.73	1.0	1.0	1.7	1.7	∞
Probe Positioner Mechanical Tolerance	0.4	R	1.73	1.0	1.0	0.2	0.2	∞
Probe Positioning w/ respect to Phantom	6.7	R	1.73	1.0	1.0	3.9	3.9	∞
Extrapolation, Interpolation & Integration algorithms for Max. SAR Evaluation	4.0	R	1.73	1.0	1.0	2.3	2.3	∞
Test Sample Related								
Test Sample Positioning	2.7	N	1	1.0	1.0	2.7	2.7	35
Device Holder Uncertainty	1.67	N	1	1.0	1.0	1.7	1.7	5
Output Power Variation - SAR drift measurement	5.0	R	1.73	1.0	1.0	2.9	2.9	∞
SAR Scaling	0.0	R	1.73	1.0	1.0	0.0	0.0	∞
Phantom & Tissue Parameters								
Phantom Uncertainty (Shape & Thickness tolerances)	7.6	R	1.73	1.0	1.0	4.4	4.4	∞
Liquid Conductivity - measurement uncertainty	4.2	N	1	0.78	0.71	3.3	3.0	10
Liquid Permittivity - measurement uncertainty	4.1	N	1	0.23	0.26	1.0	1.1	10
Liquid Conductivity - Temperature Uncertainty	3.4	R	1.73	0.78	0.71	1.5	1.4	∞
Liquid Permittivity - Temperature Uncertainty	0.6	R	1.73	0.23	0.26	0.1	0.1	∞
Liquid Conductivity - deviation from target values	5.0	R	1.73	0.64	0.43	1.8	1.2	∞
Liquid Permittivity - deviation from target values	5.0	R	1.73	0.60	0.49	1.7	1.4	∞
Combined Standard Uncertainty (k=1)	RSS					11.5	11.3	60
Expanded Uncertainty (95% CONFIDENCE LEVEL)	k=2					23.0	22.6	

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APPENDIX A: SAR TEST RESULTS FOR P_{LIMIT} CALCULATIONS

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Table A-1
DSI = 1 P_{Limit} Calculations – Ant 1 GPRS 850

MEASUREMENT RESULTS												
FREQUENCY		Mode	Service	Conducted Power [dBm]	Spacing	Antenna Config.	# of Time Slots	Duty Cycle	Side	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.									(W/kg)	[dBm]	[dBm]
824.20	128	GSM 850	GPRS	24.70	0 mm	Ant 1	2	1:4.15	back	0.588	19.85	19.85
836.60	190	GSM 850	GPRS	24.75	0 mm	Ant 1	2	1:4.15	back	0.548	20.20	
848.80	251	GSM 850	GPRS	24.48	0 mm	Ant 1	2	1:4.15	back	0.470	20.60	
836.60	190	GSM 850	GPRS	24.75	0 mm	Ant 1	2	1:4.15	top	0.017	35.29	
836.60	190	GSM 850	GPRS	24.75	0 mm	Ant 1	2	1:4.15	bottom	0.523	20.40	
836.60	190	GSM 850	GPRS	24.75	0 mm	Ant 1	2	1:4.15	right	0.026	33.44	
836.60	190	GSM 850	GPRS	24.75	0 mm	Ant 1	2	1:4.15	left	0.396	21.61	
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 A-2
DSI = 1 P_{Limit} Calculations – Ant 3 GPRS 850

MEASUREMENT RESULTS												
FREQUENCY		Mode	Service	Conducted Power [dBm]	Spacing	Antenna Config.	# of Time Slots	Duty Cycle	Side	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.									(W/kg)	[dBm]	[dBm]
824.20	128	GSM 850	GPRS	24.13	0 mm	Ant 3	2	1:4.15	back	0.543	19.62	19.52
836.60	190	GSM 850	GPRS	24.29	0 mm	Ant 3	2	1:4.15	back	0.569	19.58	
848.80	251	GSM 850	GPRS	24.15	0 mm	Ant 3	2	1:4.15	back	0.558	19.52	
836.60	190	GSM 850	GPRS	24.29	0 mm	Ant 3	2	1:4.15	top	0.483	20.29	
836.60	190	GSM 850	GPRS	24.29	0 mm	Ant 3	2	1:4.15	bottom	0.015	35.37	
836.60	190	GSM 850	GPRS	24.29	0 mm	Ant 3	2	1:4.15	right	0.299	22.37	
836.60	190	GSM 850	GPRS	24.29	0 mm	Ant 3	2	1:4.15	left	0.022	33.71	
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 A-3
DSI = 1 P_{Limit} Calculations – Ant 1 GPRS 1900

MEASUREMENT RESULTS												
FREQUENCY		Mode	Service	Conducted Power [dBm]	Spacing	Antenna Config.	# of Time Slots	Duty Cycle	Side	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.									(W/kg)	[dBm]	[dBm]
1880.00	661	GSM 1900	GPRS	21.93	0 mm	Ant 1	2	1:4.15	back	0.567	17.23	17.03
1880.00	661	GSM 1900	GPRS	21.93	0 mm	Ant 1	2	1:4.15	top	0.016	32.73	
1880.00	661	GSM 1900	GPRS	21.93	0 mm	Ant 1	2	1:4.15	bottom	0.280	20.30	
1880.00	661	GSM 1900	GPRS	21.93	0 mm	Ant 1	2	1:4.15	right	0.000	44.77	
1850.20	512	GSM 1900	GPRS	21.80	0 mm	Ant 1	2	1:4.15	left	0.496	17.69	
1880.00	661	GSM 1900	GPRS	21.93	0 mm	Ant 1	2	1:4.15	left	0.594	17.03	
1909.80	810	GSM 1900	GPRS	21.63	0 mm	Ant 1	2	1:4.15	left	0.453	17.91	
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 A-4
DSI = 1 P_{Limit} Calculations – Ant 3 GPRS 1900

MEASUREMENT RESULTS												
FREQUENCY		Mode	Service	Conducted Power [dBm]	Spacing	Antenna Config.	# of Time Slots	Duty Cycle	Side	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.									(W/kg)	[dBm]	[dBm]
1880.00	661	GSM 1900	GPRS	20.80	0 mm	Ant 3	2	1:4.15	back	0.302	18.84	16.90
1880.00	661	GSM 1900	GPRS	20.80	0 mm	Ant 3	2	1:4.15	top	0.210	20.42	
1880.00	661	GSM 1900	GPRS	20.80	0 mm	Ant 3	2	1:4.15	bottom	0.014	32.18	
1850.20	512	GSM 1900	GPRS	20.66	0 mm	Ant 3	2	1:4.15	right	0.433	17.14	
1880.00	661	GSM 1900	GPRS	20.80	0 mm	Ant 3	2	1:4.15	right	0.469	16.93	
1909.80	810	GSM 1900	GPRS	20.50	0 mm	Ant 3	2	1:4.15	right	0.441	16.90	
1880.00	661	GSM 1900	GPRS	20.80	0 mm	Ant 3	2	1:4.15	left	0.003	38.87	
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 A-5
DSI = 1 P_{Limit} Calculations – Ant 2b GPRS 1900

MEASUREMENT RESULTS												
FREQUENCY		Mode	Service	Conducted Power [dBm]	Spacing	Antenna Config.	# of Time Slots	Duty Cycle	Side	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.									(W/kg)	[dBm]	[dBm]
1850.20	512	GSM 1900	GPRS	18.25	0 mm	Ant 2b	2	1:4.15	back	0.369	15.42	14.63
1880.00	661	GSM 1900	GPRS	18.21	0 mm	Ant 2b	2	1:4.15	back	0.439	14.63	
1909.80	810	GSM 1900	GPRS	18.04	0 mm	Ant 2b	2	1:4.15	back	0.395	14.91	
1880.00	661	GSM 1900	GPRS	18.21	0 mm	Ant 2b	2	1:4.15	top	0.024	27.25	
1880.00	661	GSM 1900	GPRS	18.21	0 mm	Ant 2b	2	1:4.15	bottom	0.257	16.95	
1880.00	661	GSM 1900	GPRS	18.21	0 mm	Ant 2b	2	1:4.15	right	0.218	17.67	
1880.00	661	GSM 1900	GPRS	18.21	0 mm	Ant 2b	2	1:4.15	left	0.104	20.88	
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 A-6
DSI = 1 P_{Limit} Calculations – Ant 4b GPRS 1900

MEASUREMENT RESULTS												
FREQUENCY		Mode	Service	Conducted Power [dBm]	Spacing	Antenna Config.	# of Time Slots	Duty Cycle	Side	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.									(W/kg)	[dBm]	[dBm]
1850.20	512	GSM 1900	GPRS	16.90	0 mm	Ant 4b	2	1:4.15	back	0.445	13.26	12.42
1880.00	661	GSM 1900	GPRS	16.87	0 mm	Ant 4b	2	1:4.15	back	0.536	12.42	
1909.80	810	GSM 1900	GPRS	17.17	0 mm	Ant 4b	2	1:4.15	back	0.533	12.74	
1880.00	661	GSM 1900	GPRS	16.87	0 mm	Ant 4b	2	1:4.15	top	0.302	14.91	
1880.00	661	GSM 1900	GPRS	16.87	0 mm	Ant 4b	2	1:4.15	bottom	0.002	36.70	
1880.00	661	GSM 1900	GPRS	16.87	0 mm	Ant 4b	2	1:4.15	right	0.003	34.94	
1880.00	661	GSM 1900	GPRS	16.87	0 mm	Ant 4b	2	1:4.15	left	0.009	30.17	
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 A-7
DSI = 1 P_{Limit} Calculations – Ant 1 UMTS Band 5

MEASUREMENT RESULTS											
FREQUENCY		Mode	Service	Conducted Power [dBm]	Spacing	Antenna Config.	Duty Cycle	Side	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.								(W/kg)	[dBm]	[dBm]
826.40	4132	UMTS 850	RMC	18.58	0 mm	Ant 1	1:1	back	0.890	18.12	18.12
836.60	4183	UMTS 850	RMC	18.60	0 mm	Ant 1	1:1	back	0.719	19.06	
846.60	4233	UMTS 850	RMC	18.63	0 mm	Ant 1	1:1	back	0.778	18.75	
836.60	4183	UMTS 850	RMC	18.60	0 mm	Ant 1	1:1	top	0.017	35.33	
836.60	4183	UMTS 850	RMC	18.60	0 mm	Ant 1	1:1	bottom	0.612	19.76	
836.60	4183	UMTS 850	RMC	18.60	0 mm	Ant 1	1:1	right	0.033	32.45	
836.60	4183	UMTS 850	RMC	18.60	0 mm	Ant 1	1:1	left	0.354	22.14	
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 A-8
DSI = 1 P_{Limit} Calculations – Ant 3 UMTS Band 5

MEASUREMENT RESULTS											
FREQUENCY		Mode	Service	Conducted Power [dBm]	Spacing	Antenna Config.	Duty Cycle	Side	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.								(W/kg)	[dBm]	[dBm]
826.40	4132	UMTS 850	RMC	18.10	0 mm	Ant 3	1:1	back	0.503	20.12	19.46
836.60	4183	UMTS 850	RMC	18.13	0 mm	Ant 3	1:1	back	0.589	19.46	
846.60	4233	UMTS 850	RMC	18.15	0 mm	Ant 3	1:1	back	0.559	19.71	
836.60	4183	UMTS 850	RMC	18.13	0 mm	Ant 3	1:1	top	0.573	19.58	
836.60	4183	UMTS 850	RMC	18.13	0 mm	Ant 3	1:1	bottom	0.017	34.86	
836.60	4183	UMTS 850	RMC	18.13	0 mm	Ant 3	1:1	right	0.168	24.91	
836.60	4183	UMTS 850	RMC	18.13	0 mm	Ant 3	1:1	left	0.024	33.36	
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 A-9
DSI = 1 P_{Limit} Calculations – Ant 1 UMTS Band 4

MEASUREMENT RESULTS											
FREQUENCY		Mode	Service	Conducted Power [dBm]	Spacing	Antenna Config.	Duty Cycle	Side	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.								(W/kg)	[dBm]	[dBm]
1712.40	1312	UMTS 1750	RMC	14.70	0 mm	Ant 1	1:1	back	0.685	15.37	15.15
1732.40	1412	UMTS 1750	RMC	14.61	0 mm	Ant 1	1:1	back	0.660	15.45	
1752.60	1513	UMTS 1750	RMC	14.65	0 mm	Ant 1	1:1	back	0.633	15.67	
1732.40	1412	UMTS 1750	RMC	14.61	0 mm	Ant 1	1:1	top	0.033	28.46	
1732.40	1412	UMTS 1750	RMC	14.61	0 mm	Ant 1	1:1	bottom	0.259	19.51	
1732.40	1412	UMTS 1750	RMC	14.61	0 mm	Ant 1	1:1	right	0.000	43.64	
1712.40	1312	UMTS 1750	RMC	14.70	0 mm	Ant 1	1:1	left	0.685	15.37	
1732.40	1412	UMTS 1750	RMC	14.61	0 mm	Ant 1	1:1	left	0.706	15.15	
1752.60	1513	UMTS 1750	RMC	14.65	0 mm	Ant 1	1:1	left	0.659	15.49	
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 A-10
DSI = 1 P_{Limit} Calculations – Ant 3 UMTS Band 4

MEASUREMENT RESULTS											
FREQUENCY		Mode	Service	Conducted Power [dBm]	Spacing	Antenna Config.	Duty Cycle	Side	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.								(W/kg)	[dBm]	[dBm]
1732.40	1412	UMTS 1750	RMC	14.55	0 mm	Ant 3	1:1	back	0.391	17.66	16.51
1732.40	1412	UMTS 1750	RMC	14.55	0 mm	Ant 3	1:1	top	0.245	19.69	
1732.40	1412	UMTS 1750	RMC	14.55	0 mm	Ant 3	1:1	bottom	0.016	31.54	
1712.40	1312	UMTS 1750	RMC	14.52	0 mm	Ant 3	1:1	right	0.506	16.51	
1732.40	1412	UMTS 1750	RMC	14.55	0 mm	Ant 3	1:1	right	0.488	16.70	
1752.60	1513	UMTS 1750	RMC	14.50	0 mm	Ant 3	1:1	right	0.449	17.01	
1732.40	1412	UMTS 1750	RMC	14.55	0 mm	Ant 3	1:1	left	0.000	43.58	
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 A-11
DSI = 1 P_{Limit} Calculations – Ant 2b UMTS Band 4

MEASUREMENT RESULTS											
FREQUENCY		Mode	Service	Conducted Power [dBm]	Spacing	Antenna Config.	Duty Cycle	Side	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.								(W/kg)	[dBm]	[dBm]
1712.40	1312	UMTS 1750	RMC	12.37	0 mm	Ant 2b	1:1	back	0.751	12.64	12.46
1732.40	1412	UMTS 1750	RMC	12.52	0 mm	Ant 2b	1:1	back	0.811	12.46	
1752.60	1513	UMTS 1750	RMC	12.31	0 mm	Ant 2b	1:1	back	0.742	12.64	
1732.40	1412	UMTS 1750	RMC	12.52	0 mm	Ant 2b	1:1	top	0.001	41.55	
1732.40	1412	UMTS 1750	RMC	12.52	0 mm	Ant 2b	1:1	bottom	0.427	15.25	
1732.40	1412	UMTS 1750	RMC	12.52	0 mm	Ant 2b	1:1	right	0.046	24.92	
1732.40	1412	UMTS 1750	RMC	12.52	0 mm	Ant 2b	1:1	left	0.004	35.53	
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 A-12
DSI = 1 P_{Limit} Calculations – Ant 4b UMTS Band 4

MEASUREMENT RESULTS											
FREQUENCY		Mode	Service	Conducted Power [dBm]	Spacing	Antenna Config.	Duty Cycle	Side	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.								(W/kg)	[dBm]	[dBm]
1712.40	1312	UMTS 1750	RMC	12.99	0 mm	Ant 4b	1:1	back	0.781	13.09	12.74
1732.40	1412	UMTS 1750	RMC	12.93	0 mm	Ant 4b	1:1	back	0.811	12.87	
1752.60	1513	UMTS 1750	RMC	12.83	0 mm	Ant 4b	1:1	back	0.816	12.74	
1712.40	1312	UMTS 1750	RMC	12.99	0 mm	Ant 4b	1:1	top	0.662	13.81	
1732.40	1412	UMTS 1750	RMC	12.93	0 mm	Ant 4b	1:1	top	0.671	13.69	
1752.60	1513	UMTS 1750	RMC	12.83	0 mm	Ant 4b	1:1	top	0.674	13.57	
1732.40	1412	UMTS 1750	RMC	12.93	0 mm	Ant 4b	1:1	bottom	0.000	41.96	
1732.40	1412	UMTS 1750	RMC	12.93	0 mm	Ant 4b	1:1	right	0.000	41.96	
1732.40	1412	UMTS 1750	RMC	12.93	0 mm	Ant 4b	1:1	left	0.000	41.96	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population					Body 1.6 W/kg (mW/g) averaged over 1 gram						

FCC ID: BCGA2379	 PCTEST Proud to be part of element	PART 0 SAR CHAR REPORT	Approved by: Quality Manager
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Table A-13
DSI = 1 P_{Limit} Calculations – Ant 1 UMTS Band 2

MEASUREMENT RESULTS											
FREQUENCY		Mode	Service	Conducted Power [dBm]	Spacing	Antenna Config.	Duty Cycle	Side	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.								(W/kg)	[dBm]	[dBm]
1880.00	9400	UMTS 1900	RMC	15.58	0 mm	Ant 1	1:1	back	0.496	17.66	17.10
1880.00	9400	UMTS 1900	RMC	15.58	0 mm	Ant 1	1:1	top	0.016	32.57	
1880.00	9400	UMTS 1900	RMC	15.58	0 mm	Ant 1	1:1	bottom	0.268	20.33	
1880.00	9400	UMTS 1900	RMC	15.58	0 mm	Ant 1	1:1	right	0.000	44.61	
1852.40	9262	UMTS 1900	RMC	15.85	0 mm	Ant 1	1:1	left	0.544	17.52	
1880.00	9400	UMTS 1900	RMC	15.58	0 mm	Ant 1	1:1	left	0.564	17.10	
1907.60	9538	UMTS 1900	RMC	15.70	0 mm	Ant 1	1:1	left	0.535	17.45	
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 A-14
DSI = 1 P_{Limit} Calculations – Ant 3 UMTS Band 2

MEASUREMENT RESULTS											
FREQUENCY		Mode	Service	Conducted Power [dBm]	Spacing	Antenna Config.	Duty Cycle	Side	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.								(W/kg)	[dBm]	[dBm]
1880.00	9400	UMTS 1900	RMC	14.71	0 mm	Ant 3	1:1	back	0.371	18.05	16.34
1880.00	9400	UMTS 1900	RMC	14.71	0 mm	Ant 3	1:1	top	0.266	19.49	
1880.00	9400	UMTS 1900	RMC	14.71	0 mm	Ant 3	1:1	bottom	0.015	31.98	
1852.40	9262	UMTS 1900	RMC	14.91	0 mm	Ant 3	1:1	right	0.501	16.94	
1880.00	9400	UMTS 1900	RMC	14.71	0 mm	Ant 3	1:1	right	0.529	16.51	
1907.60	9538	UMTS 1900	RMC	14.75	0 mm	Ant 3	1:1	right	0.555	16.34	
1880.00	9400	UMTS 1900	RMC	14.71	0 mm	Ant 3	1:1	left	0.000	43.74	
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 A-15
DSI = 1 P_{Limit} Calculations – Ant 2b UMTS Band 2

MEASUREMENT RESULTS											
FREQUENCY		Mode	Service	Conducted Power [dBm]	Spacing	Antenna Config.	Duty Cycle	Side	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.								(W/kg)	[dBm]	[dBm]
1852.40	9262	UMTS 1900	RMC	11.99	0 mm	Ant 2b	1:1	back	0.613	13.15	12.81
1880.00	9400	UMTS 1900	RMC	11.82	0 mm	Ant 2b	1:1	back	0.618	12.94	
1907.60	9538	UMTS 1900	RMC	11.77	0 mm	Ant 2b	1:1	back	0.629	12.81	
1880.00	9400	UMTS 1900	RMC	11.82	0 mm	Ant 2b	1:1	top	0.001	40.85	
1880.00	9400	UMTS 1900	RMC	11.82	0 mm	Ant 2b	1:1	bottom	0.407	14.75	
1880.00	9400	UMTS 1900	RMC	11.82	0 mm	Ant 2b	1:1	right	0.035	25.41	
1880.00	9400	UMTS 1900	RMC	11.82	0 mm	Ant 2b	1:1	left	0.013	29.71	
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 A-16
DSI = 1 P_{Limit} Calculations – Ant 4b UMTS Band 2

MEASUREMENT RESULTS											
FREQUENCY		Mode	Service	Conducted Power [dBm]	Spacing	Antenna Config.	Duty Cycle	Side	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.								(W/kg)	[dBm]	[dBm]
1852.40	9262	UMTS 1900	RMC	10.93	0 mm	Ant 4b	1:1	back	0.568	12.42	11.56
1880.00	9400	UMTS 1900	RMC	10.76	0 mm	Ant 4b	1:1	back	0.610	11.94	
1907.60	9538	UMTS 1900	RMC	10.81	0 mm	Ant 4b	1:1	back	0.673	11.56	
1880.00	9400	UMTS 1900	RMC	10.76	0 mm	Ant 4b	1:1	top	0.428	13.48	
1880.00	9400	UMTS 1900	RMC	10.76	0 mm	Ant 4b	1:1	bottom	0.000	39.79	
1880.00	9400	UMTS 1900	RMC	10.76	0 mm	Ant 4b	1:1	right	0.000	39.79	
1880.00	9400	UMTS 1900	RMC	10.76	0 mm	Ant 4b	1:1	left	0.015	28.03	
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 A-17
DSI = 1 P_{Limit} Calculations – Ant 1 LTE Band 71

MEASUREMENT RESULTS																
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Antenna Config.	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.													(W/kg)	[dBm]	[dBm]
680.50	133297	Mid	LTE Band 71	20	19.07	0	Ant 1	QPSK	1	0	0 mm	back	1:1	0.591	20.39	20.39
680.50	133297	Mid	LTE Band 71	20	19.11	0	Ant 1	QPSK	50	25	0 mm	back	1:1	0.507	21.09	
680.50	133297	Mid	LTE Band 71	20	19.06	0	Ant 1	QPSK	100	0	0 mm	back	1:1	0.506	21.05	
680.50	133297	Mid	LTE Band 71	20	19.07	0	Ant 1	QPSK	1	0	0 mm	top	1:1	0.014	36.64	
680.50	133297	Mid	LTE Band 71	20	19.11	0	Ant 1	QPSK	50	25	0 mm	top	1:1	0.010	38.14	
680.50	133297	Mid	LTE Band 71	20	19.07	0	Ant 1	QPSK	1	0	0 mm	bottom	1:1	0.460	21.47	
680.50	133297	Mid	LTE Band 71	20	19.11	0	Ant 1	QPSK	50	25	0 mm	bottom	1:1	0.454	21.57	
680.50	133297	Mid	LTE Band 71	20	19.07	0	Ant 1	QPSK	1	0	0 mm	right	1:1	0.018	35.55	
680.50	133297	Mid	LTE Band 71	20	19.11	0	Ant 1	QPSK	50	25	0 mm	right	1:1	0.017	35.84	
680.50	133297	Mid	LTE Band 71	20	19.07	0	Ant 1	QPSK	1	0	0 mm	left	1:1	0.229	24.50	
680.50	133297	Mid	LTE Band 71	20	19.11	0	Ant 1	QPSK	50	25	0 mm	left	1:1	0.227	24.58	
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 A-18
DSI = 1 P_{Limit} Calculations – Ant 3 LTE Band 71

MEASUREMENT RESULTS																
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Antenna Config.	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.													(W/kg)	[dBm]	[dBm]
680.50	133297	Mid	LTE Band 71	20	19.16	0	Ant 3	QPSK	1	0	0 mm	back	1:1	0.568	20.65	20.65
680.50	133297	Mid	LTE Band 71	20	19.25	0	Ant 3	QPSK	50	25	0 mm	back	1:1	0.525	21.08	
680.50	133297	Mid	LTE Band 71	20	19.16	0	Ant 3	QPSK	1	0	0 mm	top	1:1	0.463	21.54	
680.50	133297	Mid	LTE Band 71	20	19.25	0	Ant 3	QPSK	50	25	0 mm	top	1:1	0.446	21.79	
680.50	133297	Mid	LTE Band 71	20	19.16	0	Ant 3	QPSK	1	0	0 mm	bottom	1:1	0.009	38.65	
680.50	133297	Mid	LTE Band 71	20	19.25	0	Ant 3	QPSK	50	25	0 mm	bottom	1:1	0.008	39.25	
680.50	133297	Mid	LTE Band 71	20	19.16	0	Ant 3	QPSK	1	0	0 mm	right	1:1	0.192	25.36	
680.50	133297	Mid	LTE Band 71	20	19.25	0	Ant 3	QPSK	50	25	0 mm	right	1:1	0.175	25.85	
680.50	133297	Mid	LTE Band 71	20	19.16	0	Ant 3	QPSK	1	0	0 mm	left	1:1	0.025	34.21	
680.50	133297	Mid	LTE Band 71	20	19.25	0	Ant 3	QPSK	50	25	0 mm	left	1:1	0.024	34.48	
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 A-19
DSI = 1 P_{Limit} Calculations – Ant 1 LTE Band 12

MEASUREMENT RESULTS																
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Antenna Config.	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.													(W/kg)	[dBm]	[dBm]
707.50	23095	Mid	LTE Band 12	10	19.77	0	Ant 1	QPSK	1	0	0 mm	back	1:1	0.863	19.44	19.34
707.50	23095	Mid	LTE Band 12	10	19.93	0	Ant 1	QPSK	25	0	0 mm	back	1:1	0.885	19.49	
707.50	23095	Mid	LTE Band 12	10	19.76	0	Ant 1	QPSK	50	0	0 mm	back	1:1	0.881	19.34	
707.50	23095	Mid	LTE Band 12	10	19.77	0	Ant 1	QPSK	1	0	0 mm	top	1:1	0.017	36.50	
707.50	23095	Mid	LTE Band 12	10	19.93	0	Ant 1	QPSK	25	0	0 mm	top	1:1	0.019	36.17	
707.50	23095	Mid	LTE Band 12	10	19.77	0	Ant 1	QPSK	1	0	0 mm	bottom	1:1	0.588	21.11	
707.50	23095	Mid	LTE Band 12	10	19.93	0	Ant 1	QPSK	25	0	0 mm	bottom	1:1	0.604	21.15	
707.50	23095	Mid	LTE Band 12	10	19.77	0	Ant 1	QPSK	1	0	0 mm	right	1:1	0.029	34.18	
707.50	23095	Mid	LTE Band 12	10	19.93	0	Ant 1	QPSK	25	0	0 mm	right	1:1	0.030	34.19	
707.50	23095	Mid	LTE Band 12	10	19.77	0	Ant 1	QPSK	1	0	0 mm	left	1:1	0.291	24.16	
707.50	23095	Mid	LTE Band 12	10	19.93	0	Ant 1	QPSK	25	0	0 mm	left	1:1	0.294	24.28	
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 A-20
DSI = 1 P_{Limit} Calculations – Ant 3 LTE Band 12

MEASUREMENT RESULTS																
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Antenna Config.	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.													(W/kg)	[dBm]	[dBm]
707.50	23095	Mid	LTE Band 12	10	18.64	0	Ant 3	QPSK	1	25	0 mm	back	1:1	0.596	19.92	19.80
707.50	23095	Mid	LTE Band 12	10	18.76	0	Ant 3	QPSK	25	0	0 mm	back	1:1	0.629	19.80	
707.50	23095	Mid	LTE Band 12	10	18.64	0	Ant 3	QPSK	1	25	0 mm	top	1:1	0.440	21.24	
707.50	23095	Mid	LTE Band 12	10	18.76	0	Ant 3	QPSK	25	0	0 mm	top	1:1	0.465	21.12	
707.50	23095	Mid	LTE Band 12	10	18.64	0	Ant 3	QPSK	1	25	0 mm	bottom	1:1	0.009	38.13	
707.50	23095	Mid	LTE Band 12	10	18.76	0	Ant 3	QPSK	25	0	0 mm	bottom	1:1	0.009	38.25	
707.50	23095	Mid	LTE Band 12	10	18.64	0	Ant 3	QPSK	1	25	0 mm	right	1:1	0.236	23.94	
707.50	23095	Mid	LTE Band 12	10	18.76	0	Ant 3	QPSK	25	0	0 mm	right	1:1	0.245	23.90	
707.50	23095	Mid	LTE Band 12	10	18.64	0	Ant 3	QPSK	1	25	0 mm	left	1:1	0.031	32.76	
707.50	23095	Mid	LTE Band 12	10	18.76	0	Ant 3	QPSK	25	0	0 mm	left	1:1	0.029	33.17	
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 A-21
DSI = 1 P_{Limit} Calculations – Ant 1 LTE Band 13

MEASUREMENT RESULTS																
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Antenna Config.	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.													(W/kg)	[dBm]	[dBm]
782.00	23230	Mid	LTE Band 13	10	19.92	0	Ant 1	QPSK	1	0	0 mm	back	1:1	0.598	21.18	20.49
782.00	23230	Mid	LTE Band 13	10	19.95	0	Ant 1	QPSK	25	0	0 mm	back	1:1	0.617	21.08	
782.00	23230	Mid	LTE Band 13	10	19.92	0	Ant 1	QPSK	1	0	0 mm	top	1:1	0.011	38.54	
782.00	23230	Mid	LTE Band 13	10	19.95	0	Ant 1	QPSK	25	0	0 mm	top	1:1	0.009	39.44	
782.00	23230	Mid	LTE Band 13	10	19.92	0	Ant 1	QPSK	1	0	0 mm	bottom	1:1	0.629	20.96	
782.00	23230	Mid	LTE Band 13	10	19.95	0	Ant 1	QPSK	25	0	0 mm	bottom	1:1	0.707	20.49	
782.00	23230	Mid	LTE Band 13	10	19.90	0	Ant 1	QPSK	50	0	0 mm	bottom	1:1	0.643	20.85	
782.00	23230	Mid	LTE Band 13	10	19.92	0	Ant 1	QPSK	1	0	0 mm	right	1:1	0.039	33.04	
782.00	23230	Mid	LTE Band 13	10	19.95	0	Ant 1	QPSK	25	0	0 mm	right	1:1	0.041	32.85	
782.00	23230	Mid	LTE Band 13	10	19.92	0	Ant 1	QPSK	1	0	0 mm	left	1:1	0.348	23.54	
782.00	23230	Mid	LTE Band 13	10	19.95	0	Ant 1	QPSK	25	0	0 mm	left	1:1	0.350	23.54	
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 A-22
DSI = 1 P_{Limit} Calculations – Ant 3 LTE Band 13

MEASUREMENT RESULTS																
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Antenna Config.	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.													(W/kg)	[dBm]	[dBm]
782.00	23230	Mid	LTE Band 13	10	18.73	0	Ant 3	QPSK	1	0	0 mm	back	1:1	0.453	21.20	20.62
782.00	23230	Mid	LTE Band 13	10	18.79	0	Ant 3	QPSK	25	0	0 mm	back	1:1	0.465	21.15	
782.00	23230	Mid	LTE Band 13	10	18.73	0	Ant 3	QPSK	1	0	0 mm	top	1:1	0.455	21.18	
782.00	23230	Mid	LTE Band 13	10	18.79	0	Ant 3	QPSK	25	0	0 mm	top	1:1	0.525	20.62	
782.00	23230	Mid	LTE Band 13	10	18.73	0	Ant 3	QPSK	1	0	0 mm	bottom	1:1	0.005	40.77	
782.00	23230	Mid	LTE Band 13	10	18.79	0	Ant 3	QPSK	25	0	0 mm	bottom	1:1	0.005	40.83	
782.00	23230	Mid	LTE Band 13	10	18.73	0	Ant 3	QPSK	1	0	0 mm	right	1:1	0.172	25.41	
782.00	23230	Mid	LTE Band 13	10	18.79	0	Ant 3	QPSK	25	0	0 mm	right	1:1	0.173	25.44	
782.00	23230	Mid	LTE Band 13	10	18.73	0	Ant 3	QPSK	1	0	0 mm	left	1:1	0.021	34.54	
782.00	23230	Mid	LTE Band 13	10	18.79	0	Ant 3	QPSK	25	0	0 mm	left	1:1	0.022	34.40	
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 A-23
DSI = 1 P_{Limit} Calculations – Ant 1 LTE Band 14

MEASUREMENT RESULTS																
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Antenna Config.	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.													(W/kg)	[dBm]	[dBm]
793.00	23330	Mid	LTE Band 14	10	19.77	0	Ant 1	QPSK	1	0	0 mm	back	1:1	0.518	21.66	20.58
793.00	23330	Mid	LTE Band 14	10	19.82	0	Ant 1	QPSK	25	0	0 mm	back	1:1	0.526	21.64	
793.00	23330	Mid	LTE Band 14	10	19.77	0	Ant 1	QPSK	1	0	0 mm	top	1:1	0.013	37.66	
793.00	23330	Mid	LTE Band 14	10	19.82	0	Ant 1	QPSK	25	0	0 mm	top	1:1	0.015	37.09	
793.00	23330	Mid	LTE Band 14	10	19.77	0	Ant 1	QPSK	1	0	0 mm	bottom	1:1	0.632	20.79	
793.00	23330	Mid	LTE Band 14	10	19.82	0	Ant 1	QPSK	25	0	0 mm	bottom	1:1	0.651	20.72	
793.00	23330	Mid	LTE Band 14	10	19.76	0	Ant 1	QPSK	50	0	0 mm	bottom	1:1	0.663	20.58	
793.00	23330	Mid	LTE Band 14	10	19.77	0	Ant 1	QPSK	1	0	0 mm	right	1:1	0.038	33.00	
793.00	23330	Mid	LTE Band 14	10	19.82	0	Ant 1	QPSK	25	0	0 mm	right	1:1	0.035	33.41	
793.00	23330	Mid	LTE Band 14	10	19.77	0	Ant 1	QPSK	1	0	0 mm	left	1:1	0.308	23.92	
793.00	23330	Mid	LTE Band 14	10	19.82	0	Ant 1	QPSK	25	0	0 mm	left	1:1	0.309	23.95	
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 A-24
DSI = 1 P_{Limit} Calculations – Ant 3 LTE Band 14

MEASUREMENT RESULTS																
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Antenna Config.	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.													(W/kg)	[dBm]	[dBm]
793.00	23330	Mid	LTE Band 14	10	18.78	0	Ant 3	QPSK	1	49	0 mm	back	1:1	0.439	21.39	20.43
793.00	23330	Mid	LTE Band 14	10	18.90	0	Ant 3	QPSK	25	12	0 mm	back	1:1	0.454	21.36	
793.00	23330	Mid	LTE Band 14	10	18.78	0	Ant 3	QPSK	1	49	0 mm	top	1:1	0.547	20.43	
793.00	23330	Mid	LTE Band 14	10	18.90	0	Ant 3	QPSK	25	12	0 mm	top	1:1	0.528	20.70	
793.00	23330	Mid	LTE Band 14	10	18.78	0	Ant 3	QPSK	1	49	0 mm	bottom	1:1	0.005	40.82	
793.00	23330	Mid	LTE Band 14	10	18.90	0	Ant 3	QPSK	25	12	0 mm	bottom	1:1	0.006	40.15	
793.00	23330	Mid	LTE Band 14	10	18.78	0	Ant 3	QPSK	1	49	0 mm	right	1:1	0.129	26.70	
793.00	23330	Mid	LTE Band 14	10	18.90	0	Ant 3	QPSK	25	12	0 mm	right	1:1	0.138	26.53	
793.00	23330	Mid	LTE Band 14	10	18.78	0	Ant 3	QPSK	1	49	0 mm	left	1:1	0.018	35.26	
793.00	23330	Mid	LTE Band 14	10	18.90	0	Ant 3	QPSK	25	12	0 mm	left	1:1	0.019	35.14	
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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06/01/2019

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Table A-25
DSI = 1 P_{Limit} Calculations – Ant 1 LTE Band 26

MEASUREMENT RESULTS																
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Antenna Config.	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.													(W/kg)	[dBm]	[dBm]
819.00	26740	Low	LTE Band 26 (Cell)	10	18.30	0	Ant 1	QPSK	1	0	0 mm	back	1:1	0.823	18.18	18.18
831.50	26865	Mid	LTE Band 26 (Cell)	10	18.28	0	Ant 1	QPSK	1	0	0 mm	back	1:1	0.722	18.73	
844.00	26990	High	LTE Band 26 (Cell)	10	18.24	0	Ant 1	QPSK	1	0	0 mm	back	1:1	0.632	19.26	
819.00	26740	Low	LTE Band 26 (Cell)	10	18.38	0	Ant 1	QPSK	25	0	0 mm	back	1:1	0.819	18.28	
831.50	26865	Mid	LTE Band 26 (Cell)	10	18.31	0	Ant 1	QPSK	25	12	0 mm	back	1:1	0.713	18.81	
844.00	26990	High	LTE Band 26 (Cell)	10	18.28	0	Ant 1	QPSK	25	12	0 mm	back	1:1	0.637	19.27	
819.00	26740	Low	LTE Band 26 (Cell)	10	18.29	0	Ant 1	QPSK	50	0	0 mm	back	1:1	0.799	18.30	
819.00	26740	Low	LTE Band 26 (Cell)	10	18.30	0	Ant 1	QPSK	1	0	0 mm	top	1:1	0.014	35.87	
819.00	26740	Low	LTE Band 26 (Cell)	10	18.38	0	Ant 1	QPSK	25	0	0 mm	top	1:1	0.016	35.37	
819.00	26740	Low	LTE Band 26 (Cell)	10	18.30	0	Ant 1	QPSK	1	0	0 mm	bottom	1:1	0.544	19.97	
819.00	26740	Low	LTE Band 26 (Cell)	10	18.38	0	Ant 1	QPSK	25	0	0 mm	bottom	1:1	0.546	20.04	
819.00	26740	Low	LTE Band 26 (Cell)	10	18.30	0	Ant 1	QPSK	1	0	0 mm	right	1:1	0.022	33.91	
819.00	26740	Low	LTE Band 26 (Cell)	10	18.38	0	Ant 1	QPSK	25	0	0 mm	right	1:1	0.021	34.19	
819.00	26740	Low	LTE Band 26 (Cell)	10	18.30	0	Ant 1	QPSK	1	0	0 mm	left	1:1	0.327	22.19	
819.00	26740	Low	LTE Band 26 (Cell)	10	18.38	0	Ant 1	QPSK	25	0	0 mm	left	1:1	0.335	22.16	
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 A-26
DSI = 1 P_{Limit} Calculations – Ant 3 LTE Band 26

MEASUREMENT RESULTS																
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Antenna Config.	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.													(W/kg)	[dBm]	[dBm]
819.00	26740	Low	LTE Band 26 (Cell)	10	18.15	0	Ant 3	QPSK	1	0	0 mm	back	1:1	0.583	19.52	19.09
831.50	26865	Mid	LTE Band 26 (Cell)	10	18.07	0	Ant 3	QPSK	1	25	0 mm	back	1:1	0.611	19.24	
844.00	26990	High	LTE Band 26 (Cell)	10	18.21	0	Ant 3	QPSK	1	0	0 mm	back	1:1	0.654	19.09	
819.00	26740	Low	LTE Band 26 (Cell)	10	18.30	0	Ant 3	QPSK	25	0	0 mm	back	1:1	0.606	19.51	
831.50	26865	Mid	LTE Band 26 (Cell)	10	18.20	0	Ant 3	QPSK	50	0	0 mm	back	1:1	0.635	19.20	
844.00	26990	High	LTE Band 26 (Cell)	10	18.21	0	Ant 3	QPSK	1	0	0 mm	top	1:1	0.629	19.25	
819.00	26740	Low	LTE Band 26 (Cell)	10	18.30	0	Ant 3	QPSK	25	0	0 mm	top	1:1	0.648	19.22	
844.00	26990	High	LTE Band 26 (Cell)	10	18.21	0	Ant 3	QPSK	1	0	0 mm	bottom	1:1	0.022	33.82	
819.00	26740	Low	LTE Band 26 (Cell)	10	18.30	0	Ant 3	QPSK	25	0	0 mm	bottom	1:1	0.012	36.54	
844.00	26990	High	LTE Band 26 (Cell)	10	18.21	0	Ant 3	QPSK	1	0	0 mm	right	1:1	0.314	22.27	
819.00	26740	Low	LTE Band 26 (Cell)	10	18.30	0	Ant 3	QPSK	25	0	0 mm	right	1:1	0.264	23.11	
844.00	26990	High	LTE Band 26 (Cell)	10	18.21	0	Ant 3	QPSK	1	0	0 mm	left	1:1	0.025	33.26	
819.00	26740	Low	LTE Band 26 (Cell)	10	18.30	0	Ant 3	QPSK	25	0	0 mm	left	1:1	0.015	35.57	
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 A-27
DSI = 1 P_{Limit} Calculations – Ant 1 LTE Band 5

MEASUREMENT RESULTS																
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Antenna Config.	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.													(W/kg)	[dBm]	[dBm]
836.50	20525	Mid	LTE Band 5 (Cell)	10	18.55	0	Ant 1	QPSK	1	0	0 mm	back	1:1	0.781	18.65	18.65
836.50	20525	Mid	LTE Band 5 (Cell)	10	18.64	0	Ant 1	QPSK	25	12	0 mm	back	1:1	0.743	18.96	
836.50	20525	Mid	LTE Band 5 (Cell)	10	18.54	0	Ant 1	QPSK	50	0	0 mm	back	1:1	0.729	18.94	
836.50	20525	Mid	LTE Band 5 (Cell)	10	18.55	0	Ant 1	QPSK	1	0	0 mm	top	1:1	0.025	33.60	
836.50	20525	Mid	LTE Band 5 (Cell)	10	18.64	0	Ant 1	QPSK	25	12	0 mm	top	1:1	0.019	34.88	
836.50	20525	Mid	LTE Band 5 (Cell)	10	18.55	0	Ant 1	QPSK	1	0	0 mm	bottom	1:1	0.590	19.87	
836.50	20525	Mid	LTE Band 5 (Cell)	10	18.64	0	Ant 1	QPSK	25	12	0 mm	bottom	1:1	0.603	19.87	
836.50	20525	Mid	LTE Band 5 (Cell)	10	18.55	0	Ant 1	QPSK	1	0	0 mm	right	1:1	0.028	33.11	
836.50	20525	Mid	LTE Band 5 (Cell)	10	18.64	0	Ant 1	QPSK	25	12	0 mm	right	1:1	0.029	33.05	
836.50	20525	Mid	LTE Band 5 (Cell)	10	18.55	0	Ant 1	QPSK	1	0	0 mm	left	1:1	0.254	23.53	
836.50	20525	Mid	LTE Band 5 (Cell)	10	18.64	0	Ant 1	QPSK	25	12	0 mm	left	1:1	0.267	23.41	
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 A-28
DSI = 1 P_{Limit} Calculations – Ant 3 LTE Band 5

MEASUREMENT RESULTS																
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Antenna Config.	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.													(W/kg)	[dBm]	[dBm]
836.50	20525	Mid	LTE Band 5 (Cell)	10	18.07	0	Ant 3	QPSK	1	25	0 mm	back	1:1	0.625	19.14	18.90
836.50	20525	Mid	LTE Band 5 (Cell)	10	18.21	0	Ant 3	QPSK	25	12	0 mm	back	1:1	0.648	19.13	
836.50	20525	Mid	LTE Band 5 (Cell)	10	18.06	0	Ant 3	QPSK	50	0	0 mm	back	1:1	0.659	18.90	
836.50	20525	Mid	LTE Band 5 (Cell)	10	18.07	0	Ant 3	QPSK	1	25	0 mm	top	1:1	0.588	19.41	
836.50	20525	Mid	LTE Band 5 (Cell)	10	18.21	0	Ant 3	QPSK	25	12	0 mm	top	1:1	0.629	19.25	
836.50	20525	Mid	LTE Band 5 (Cell)	10	18.07	0	Ant 3	QPSK	1	25	0 mm	bottom	1:1	0.017	34.80	
836.50	20525	Mid	LTE Band 5 (Cell)	10	18.21	0	Ant 3	QPSK	25	12	0 mm	bottom	1:1	0.018	34.69	
836.50	20525	Mid	LTE Band 5 (Cell)	10	18.07	0	Ant 3	QPSK	1	25	0 mm	right	1:1	0.296	22.39	
836.50	20525	Mid	LTE Band 5 (Cell)	10	18.21	0	Ant 3	QPSK	25	12	0 mm	right	1:1	0.299	22.48	
836.50	20525	Mid	LTE Band 5 (Cell)	10	18.07	0	Ant 3	QPSK	1	25	0 mm	left	1:1	0.019	34.31	
836.50	20525	Mid	LTE Band 5 (Cell)	10	18.21	0	Ant 3	QPSK	25	12	0 mm	left	1:1	0.022	33.82	
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 A-29
DSI = 1 P_{Limit} Calculations – Ant 1 LTE Band 66

MEASUREMENT RESULTS																
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Antenna Config.	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.													(W/kg)	[dBm]	[dBm]
1745.00	132322	Mid	LTE Band 66 (AWS)	20	14.76	0	Ant 1	QPSK	1	0	0 mm	back	1:1	0.567	16.26	15.73
1720.00	132072	Low	LTE Band 66 (AWS)	20	14.81	0	Ant 1	QPSK	50	0	0 mm	back	1:1	0.624	15.89	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	14.76	0	Ant 1	QPSK	1	0	0 mm	top	1:1	0.000	43.79	
1720.00	132072	Low	LTE Band 66 (AWS)	20	14.81	0	Ant 1	QPSK	50	0	0 mm	top	1:1	0.000	43.84	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	14.76	0	Ant 1	QPSK	1	0	0 mm	bottom	1:1	0.246	19.88	
1720.00	132072	Low	LTE Band 66 (AWS)	20	14.81	0	Ant 1	QPSK	50	0	0 mm	bottom	1:1	0.254	19.79	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	14.76	0	Ant 1	QPSK	1	0	0 mm	right	1:1	0.000	43.79	
1720.00	132072	Low	LTE Band 66 (AWS)	20	14.81	0	Ant 1	QPSK	50	0	0 mm	right	1:1	0.000	43.84	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	14.76	0	Ant 1	QPSK	1	0	0 mm	left	1:1	0.620	15.87	
1720.00	132072	Low	LTE Band 66 (AWS)	20	14.81	0	Ant 1	QPSK	50	0	0 mm	left	1:1	0.648	15.73	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	14.80	0	Ant 1	QPSK	50	0	0 mm	left	1:1	0.625	15.87	
1770.00	132572	High	LTE Band 66 (AWS)	20	14.64	0	Ant 1	QPSK	50	0	0 mm	left	1:1	0.594	15.93	
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 A-30
DSI = 1 P_{Limit} Calculations – Ant 3 LTE Band 66

MEASUREMENT RESULTS																
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Antenna Config.	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.													(W/kg)	[dBm]	[dBm]
1745.00	132322	Mid	LTE Band 66 (AWS)	20	14.34	0	Ant 3	QPSK	1	0	0 mm	back	1:1	0.406	17.29	16.60
1745.00	132322	Mid	LTE Band 66 (AWS)	20	14.46	0	Ant 3	QPSK	50	25	0 mm	back	1:1	0.408	17.38	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	14.34	0	Ant 3	QPSK	1	0	0 mm	top	1:1	0.225	19.85	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	14.46	0	Ant 3	QPSK	50	25	0 mm	top	1:1	0.230	19.87	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	14.34	0	Ant 3	QPSK	1	0	0 mm	bottom	1:1	0.015	31.61	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	14.46	0	Ant 3	QPSK	50	25	0 mm	bottom	1:1	0.017	31.19	
1720.00	132072	Low	LTE Band 66 (AWS)	20	14.20	0	Ant 3	QPSK	1	0	0 mm	right	1:1	0.436	16.84	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	14.34	0	Ant 3	QPSK	1	0	0 mm	right	1:1	0.475	16.60	
1770.00	132572	High	LTE Band 66 (AWS)	20	14.16	0	Ant 3	QPSK	1	0	0 mm	right	1:1	0.456	16.60	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	14.46	0	Ant 3	QPSK	50	25	0 mm	right	1:1	0.481	16.67	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	14.34	0	Ant 3	QPSK	1	0	0 mm	left	1:1	0.000	43.37	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	14.46	0	Ant 3	QPSK	50	25	0 mm	left	1:1	0.000	43.49	
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 A-31
DSI = 1 P_{Limit} Calculations – Ant 2b LTE Band 66

MEASUREMENT RESULTS																
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Antenna Config.	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.													(W/kg)	[dBm]	[dBm]
1720.00	132072	Low	LTE Band 66 (AWS)	20	12.37	0	Ant 2b	QPSK	1	0	0 mm	back	1:1	0.701	12.94	12.94
1745.00	132322	Mid	LTE Band 66 (AWS)	20	12.58	0	Ant 2b	QPSK	1	0	0 mm	back	1:1	0.728	12.99	
1770.00	132572	High	LTE Band 66 (AWS)	20	12.55	0	Ant 2b	QPSK	1	0	0 mm	back	1:1	0.708	13.08	
1720.00	132072	Low	LTE Band 66 (AWS)	20	12.59	0	Ant 2b	QPSK	50	0	0 mm	back	1:1	0.727	13.01	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	12.58	0	Ant 2b	QPSK	50	0	0 mm	back	1:1	0.721	13.03	
1770.00	132572	High	LTE Band 66 (AWS)	20	12.55	0	Ant 2b	QPSK	50	25	0 mm	back	1:1	0.722	13.00	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	12.49	0	Ant 2b	QPSK	100	0	0 mm	back	1:1	0.716	12.97	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	12.58	0	Ant 2b	QPSK	1	0	0 mm	top	1:1	0.000	41.61	
1720.00	132072	Low	LTE Band 66 (AWS)	20	12.59	0	Ant 2b	QPSK	50	0	0 mm	top	1:1	0.000	41.62	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	12.58	0	Ant 2b	QPSK	1	0	0 mm	bottom	1:1	0.363	16.01	
1720.00	132072	Low	LTE Band 66 (AWS)	20	12.59	0	Ant 2b	QPSK	50	0	0 mm	bottom	1:1	0.379	15.83	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	12.58	0	Ant 2b	QPSK	1	0	0 mm	right	1:1	0.037	25.93	
1720.00	132072	Low	LTE Band 66 (AWS)	20	12.59	0	Ant 2b	QPSK	50	0	0 mm	right	1:1	0.038	25.82	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	12.58	0	Ant 2b	QPSK	1	0	0 mm	left	1:1	0.009	32.07	
1720.00	132072	Low	LTE Band 66 (AWS)	20	12.59	0	Ant 2b	QPSK	50	0	0 mm	left	1:1	0.007	33.17	
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 A-32
DSI = 1 P_{Limit} Calculations – Ant 4b LTE Band 66

MEASUREMENT RESULTS																
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Antenna Config.	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.													(W/kg)	[dBm]	[dBm]
1720.00	132072	Low	LTE Band 66 (AWS)	20	12.84	0	Ant 4b	QPSK	1	0	0 mm	back	1:1	0.624	13.92	13.20
1720.00	132072	Low	LTE Band 66 (AWS)	20	12.88	0	Ant 4b	QPSK	50	25	0 mm	back	1:1	0.661	13.71	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	12.90	0	Ant 4b	QPSK	50	0	0 mm	back	1:1	0.688	13.55	
1770.00	132572	High	LTE Band 66 (AWS)	20	12.69	0	Ant 4b	QPSK	50	25	0 mm	back	1:1	0.711	13.20	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	12.83	0	Ant 4b	QPSK	100	0	0 mm	back	1:1	0.697	13.43	
1720.00	132072	Low	LTE Band 66 (AWS)	20	12.84	0	Ant 4b	QPSK	1	0	0 mm	top	1:1	0.616	13.98	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	12.90	0	Ant 4b	QPSK	50	0	0 mm	top	1:1	0.607	14.10	
1720.00	132072	Low	LTE Band 66 (AWS)	20	12.84	0	Ant 4b	QPSK	1	0	0 mm	bottom	1:1	0.000	41.87	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	12.90	0	Ant 4b	QPSK	50	0	0 mm	bottom	1:1	0.000	41.93	
1720.00	132072	Low	LTE Band 66 (AWS)	20	12.84	0	Ant 4b	QPSK	1	0	0 mm	right	1:1	0.001	41.87	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	12.90	0	Ant 4b	QPSK	50	0	0 mm	right	1:1	0.000	41.93	
1720.00	132072	Low	LTE Band 66 (AWS)	20	12.84	0	Ant 4b	QPSK	1	0	0 mm	left	1:1	0.033	26.69	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	12.90	0	Ant 4b	QPSK	50	0	0 mm	left	1:1	0.035	26.49	
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 A-33
DSI = 1 P_{Limit} Calculations – Ant 1 LTE Band 25

MEASUREMENT RESULTS																
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Antenna Config.	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.													(W/kg)	[dBm]	[dBm]
1860.00	26140	Low	LTE Band 25 (PCS)	20	16.00	0	Ant 1	QPSK	1	0	0 mm	back	1:1	0.485	18.17	17.48
1860.00	26140	Low	LTE Band 25 (PCS)	20	16.18	0	Ant 1	QPSK	50	0	0 mm	back	1:1	0.494	18.27	
1860.00	26140	Low	LTE Band 25 (PCS)	20	16.00	0	Ant 1	QPSK	1	0	0 mm	top	1:1	0.017	32.73	
1860.00	26140	Low	LTE Band 25 (PCS)	20	16.18	0	Ant 1	QPSK	50	0	0 mm	top	1:1	0.019	32.42	
1860.00	26140	Low	LTE Band 25 (PCS)	20	16.00	0	Ant 1	QPSK	1	0	0 mm	bottom	1:1	0.288	20.44	
1860.00	26140	Low	LTE Band 25 (PCS)	20	16.18	0	Ant 1	QPSK	50	0	0 mm	bottom	1:1	0.289	20.60	
1860.00	26140	Low	LTE Band 25 (PCS)	20	16.00	0	Ant 1	QPSK	1	0	0 mm	right	1:1	0.000	45.03	
1860.00	26140	Low	LTE Band 25 (PCS)	20	16.18	0	Ant 1	QPSK	50	0	0 mm	right	1:1	0.000	45.21	
1860.00	26140	Low	LTE Band 25 (PCS)	20	16.00	0	Ant 1	QPSK	1	0	0 mm	left	1:1	0.513	17.93	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	15.90	0	Ant 1	QPSK	1	0	0 mm	left	1:1	0.556	17.48	
1905.00	26590	High	LTE Band 25 (PCS)	20	15.87	0	Ant 1	QPSK	1	0	0 mm	left	1:1	0.531	17.65	
1860.00	26140	Low	LTE Band 25 (PCS)	20	16.18	0	Ant 1	QPSK	50	0	0 mm	left	1:1	0.531	17.96	
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 A-34
DSI = 1 P_{Limit} Calculations – Ant 3 LTE Band 25

MEASUREMENT RESULTS																
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Antenna Config.	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.													(W/kg)	[dBm]	[dBm]
1860.00	26140	Low	LTE Band 25 (PCS)	20	15.06	0	Ant 3	QPSK	1	0	0 mm	back	1:1	0.401	18.06	16.18
1860.00	26140	Low	LTE Band 25 (PCS)	20	15.05	0	Ant 3	QPSK	50	0	0 mm	back	1:1	0.406	18.00	
1860.00	26140	Low	LTE Band 25 (PCS)	20	15.06	0	Ant 3	QPSK	1	0	0 mm	top	1:1	0.271	19.76	
1860.00	26140	Low	LTE Band 25 (PCS)	20	15.05	0	Ant 3	QPSK	50	0	0 mm	top	1:1	0.280	19.61	
1860.00	26140	Low	LTE Band 25 (PCS)	20	15.06	0	Ant 3	QPSK	1	0	0 mm	bottom	1:1	0.011	33.68	
1860.00	26140	Low	LTE Band 25 (PCS)	20	15.05	0	Ant 3	QPSK	50	0	0 mm	bottom	1:1	0.011	33.67	
1860.00	26140	Low	LTE Band 25 (PCS)	20	15.06	0	Ant 3	QPSK	1	0	0 mm	right	1:1	0.480	17.28	
1860.00	26140	Low	LTE Band 25 (PCS)	20	15.05	0	Ant 3	QPSK	50	0	0 mm	right	1:1	0.494	17.14	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	14.89	0	Ant 3	QPSK	50	0	0 mm	right	1:1	0.491	17.01	
1905.00	26590	High	LTE Band 25 (PCS)	20	14.86	0	Ant 3	QPSK	50	50	0 mm	right	1:1	0.591	16.18	
1860.00	26140	Low	LTE Band 25 (PCS)	20	15.06	0	Ant 3	QPSK	1	0	0 mm	left	1:1	0.000	44.09	
1860.00	26140	Low	LTE Band 25 (PCS)	20	15.05	0	Ant 3	QPSK	50	0	0 mm	left	1:1	0.001	44.08	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						Body 1.6 W/kg (mW/g) averaged over 1 gram										

FCC ID: BCGA2379	 PCTEST Proud to be part of element	PART 0 SAR CHAR REPORT	Approved by: Quality Manager
Test Dates: 12/28/2020 – 03/03/2021	DUT Type: Tablet Device		APPENDIX A: Page 18 of 45

Table A-35
DSI = 1 P_{Limit} Calculations – Ant 2b LTE Band 25

MEASUREMENT RESULTS																
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Antenna Config.	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.													(W/kg)	[dBm]	[dBm]
1860.00	26140	Low	LTE Band 25 (PCS)	20	12.27	0	Ant 2b	QPSK	1	0	0 mm	back	1:1	0.463	14.65	14.06
1860.00	26140	Low	LTE Band 25 (PCS)	20	12.35	0	Ant 2b	QPSK	50	0	0 mm	back	1:1	0.539	14.06	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	12.15	0	Ant 2b	QPSK	50	50	0 mm	back	1:1	0.478	14.39	
1905.00	26590	High	LTE Band 25 (PCS)	20	12.26	0	Ant 2b	QPSK	50	25	0 mm	back	1:1	0.500	14.30	
1860.00	26140	Low	LTE Band 25 (PCS)	20	12.27	0	Ant 2b	QPSK	1	0	0 mm	top	1:1	0.000	41.30	
1860.00	26140	Low	LTE Band 25 (PCS)	20	12.35	0	Ant 2b	QPSK	50	0	0 mm	top	1:1	0.000	41.38	
1860.00	26140	Low	LTE Band 25 (PCS)	20	12.27	0	Ant 2b	QPSK	1	0	0 mm	bottom	1:1	0.339	16.00	
1860.00	26140	Low	LTE Band 25 (PCS)	20	12.35	0	Ant 2b	QPSK	50	0	0 mm	bottom	1:1	0.344	16.02	
1860.00	26140	Low	LTE Band 25 (PCS)	20	12.27	0	Ant 2b	QPSK	1	0	0 mm	right	1:1	0.047	24.58	
1860.00	26140	Low	LTE Band 25 (PCS)	20	12.35	0	Ant 2b	QPSK	50	0	0 mm	right	1:1	0.048	24.57	
1860.00	26140	Low	LTE Band 25 (PCS)	20	12.27	0	Ant 2b	QPSK	1	0	0 mm	left	1:1	0.006	33.52	
1860.00	26140	Low	LTE Band 25 (PCS)	20	12.35	0	Ant 2b	QPSK	50	0	0 mm	left	1:1	0.007	32.93	
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 A-36
DSI = 1 P_{Limit} Calculations – Ant 4b LTE Band 25

MEASUREMENT RESULTS																
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Antenna Config.	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.													(W/kg)	[dBm]	[dBm]
1905.00	26590	High	LTE Band 25 (PCS)	20	11.41	0	Ant 4b	QPSK	1	99	0 mm	back	1:1	0.573	12.86	12.24
1860.00	26140	Low	LTE Band 25 (PCS)	20	11.29	0	Ant 4b	QPSK	50	0	0 mm	back	1:1	0.514	13.21	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	11.29	0	Ant 4b	QPSK	50	50	0 mm	back	1:1	0.565	12.80	
1905.00	26590	High	LTE Band 25 (PCS)	20	11.30	0	Ant 4b	QPSK	50	50	0 mm	back	1:1	0.645	12.24	
1905.00	26590	High	LTE Band 25 (PCS)	20	11.41	0	Ant 4b	QPSK	1	99	0 mm	top	1:1	0.392	14.51	
1905.00	26590	High	LTE Band 25 (PCS)	20	11.30	0	Ant 4b	QPSK	50	50	0 mm	top	1:1	0.409	14.21	
1905.00	26590	High	LTE Band 25 (PCS)	20	11.41	0	Ant 4b	QPSK	1	99	0 mm	bottom	1:1	0.000	40.44	
1905.00	26590	High	LTE Band 25 (PCS)	20	11.30	0	Ant 4b	QPSK	50	50	0 mm	bottom	1:1	0.000	40.33	
1905.00	26590	High	LTE Band 25 (PCS)	20	11.41	0	Ant 4b	QPSK	1	99	0 mm	right	1:1	0.001	40.44	
1905.00	26590	High	LTE Band 25 (PCS)	20	11.30	0	Ant 4b	QPSK	50	50	0 mm	right	1:1	0.002	37.32	
1905.00	26590	High	LTE Band 25 (PCS)	20	11.41	0	Ant 4b	QPSK	1	99	0 mm	left	1:1	0.019	27.65	
1905.00	26590	High	LTE Band 25 (PCS)	20	11.30	0	Ant 4b	QPSK	50	50	0 mm	left	1:1	0.018	27.78	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						Body 1.6 W/kg (mW/g) averaged over 1 gram										

FCC ID: BCGA2379	 Proud to be part of 	PART 0 SAR CHAR REPORT	Approved by: Quality Manager
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Table A-37
DSI = 1 P_{Limit} Calculations – Ant 1 LTE Band 30

MEASUREMENT RESULTS																
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Antenna Config.	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.													(W/kg)	[dBm]	[dBm]
2310.00	27710	Mid	LTE Band 30	10	12.64	0	Ant 1	QPSK	1	0	0 mm	back	1:1	0.403	15.62	14.38
2310.00	27710	Mid	LTE Band 30	10	12.71	0	Ant 1	QPSK	25	25	0 mm	back	1:1	0.403	15.69	
2310.00	27710	Mid	LTE Band 30	10	12.64	0	Ant 1	QPSK	1	0	0 mm	top	1:1	0.002	38.66	
2310.00	27710	Mid	LTE Band 30	10	12.71	0	Ant 1	QPSK	25	25	0 mm	top	1:1	0.007	33.29	
2310.00	27710	Mid	LTE Band 30	10	12.64	0	Ant 1	QPSK	1	0	0 mm	bottom	1:1	0.342	16.33	
2310.00	27710	Mid	LTE Band 30	10	12.71	0	Ant 1	QPSK	25	25	0 mm	bottom	1:1	0.350	16.30	
2310.00	27710	Mid	LTE Band 30	10	12.64	0	Ant 1	QPSK	1	0	0 mm	right	1:1	0.001	41.67	
2310.00	27710	Mid	LTE Band 30	10	12.71	0	Ant 1	QPSK	25	25	0 mm	right	1:1	0.001	41.74	
2310.00	27710	Mid	LTE Band 30	10	12.64	0	Ant 1	QPSK	1	0	0 mm	left	1:1	0.533	14.40	
2310.00	27710	Mid	LTE Band 30	10	12.71	0	Ant 1	QPSK	25	25	0 mm	left	1:1	0.545	14.38	
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 A-38
DSI = 1 P_{Limit} Calculations – Ant 3 LTE Band 30

MEASUREMENT RESULTS																
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Antenna Config.	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.													(W/kg)	[dBm]	[dBm]
2310.00	27710	Mid	LTE Band 30	10	14.32	0	Ant 3	QPSK	1	0	0 mm	back	1:1	0.581	15.71	15.07
2310.00	27710	Mid	LTE Band 30	10	14.43	0	Ant 3	QPSK	25	25	0 mm	back	1:1	0.605	15.64	
2310.00	27710	Mid	LTE Band 30	10	14.32	0	Ant 3	QPSK	1	0	0 mm	top	1:1	0.583	15.69	
2310.00	27710	Mid	LTE Band 30	10	14.43	0	Ant 3	QPSK	25	25	0 mm	top	1:1	0.594	15.72	
2310.00	27710	Mid	LTE Band 30	10	14.32	0	Ant 3	QPSK	1	0	0 mm	bottom	1:1	0.007	34.90	
2310.00	27710	Mid	LTE Band 30	10	14.43	0	Ant 3	QPSK	25	25	0 mm	bottom	1:1	0.006	35.68	
2310.00	27710	Mid	LTE Band 30	10	14.32	0	Ant 3	QPSK	1	0	0 mm	right	1:1	0.673	15.07	
2310.00	27710	Mid	LTE Band 30	10	14.43	0	Ant 3	QPSK	25	25	0 mm	right	1:1	0.690	15.07	
2310.00	27710	Mid	LTE Band 30	10	14.31	0	Ant 3	QPSK	50	0	0 mm	right	1:1	0.671	15.07	
2310.00	27710	Mid	LTE Band 30	10	14.32	0	Ant 3	QPSK	1	0	0 mm	left	1:1	0.004	37.33	
2310.00	27710	Mid	LTE Band 30	10	14.43	0	Ant 3	QPSK	25	25	0 mm	left	1:1	0.007	35.01	
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 A-39
DSI = 1 P_{Limit} Calculations – Ant 2b LTE Band 30

MEASUREMENT RESULTS																
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Antenna Config.	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.													(W/kg)	[dBm]	[dBm]
2310.00	27710	Mid	LTE Band 30	10	13.56	0	Ant 2b	QPSK	1	0	0 mm	back	1:1	0.829	13.41	13.37
2310.00	27710	Mid	LTE Band 30	10	13.60	0	Ant 2b	QPSK	25	12	0 mm	back	1:1	0.832	13.43	
2310.00	27710	Mid	LTE Band 30	10	13.55	0	Ant 2b	QPSK	50	0	0 mm	back	1:1	0.833	13.37	
2310.00	27710	Mid	LTE Band 30	10	13.56	0	Ant 2b	QPSK	1	0	0 mm	top	1:1	0.000	42.59	
2310.00	27710	Mid	LTE Band 30	10	13.60	0	Ant 2b	QPSK	25	12	0 mm	top	1:1	0.000	42.63	
2310.00	27710	Mid	LTE Band 30	10	13.56	0	Ant 2b	QPSK	1	0	0 mm	bottom	1:1	0.568	15.05	
2310.00	27710	Mid	LTE Band 30	10	13.60	0	Ant 2b	QPSK	25	12	0 mm	bottom	1:1	0.584	14.97	
2310.00	27710	Mid	LTE Band 30	10	13.56	0	Ant 2b	QPSK	1	0	0 mm	right	1:1	0.031	27.68	
2310.00	27710	Mid	LTE Band 30	10	13.60	0	Ant 2b	QPSK	25	12	0 mm	right	1:1	0.031	27.72	
2310.00	27710	Mid	LTE Band 30	10	13.56	0	Ant 2b	QPSK	1	0	0 mm	left	1:1	0.021	29.37	
2310.00	27710	Mid	LTE Band 30	10	13.60	0	Ant 2b	QPSK	25	12	0 mm	left	1:1	0.021	29.41	
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 A-40
DSI = 1 P_{Limit} Calculations – Ant 4b LTE Band 30

MEASUREMENT RESULTS																
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Antenna Config.	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.													(W/kg)	[dBm]	[dBm]
2310.00	27710	Mid	LTE Band 30	10	11.74	0	Ant 4b	QPSK	1	49	0 mm	back	1:1	0.652	12.63	12.58
2310.00	27710	Mid	LTE Band 30	10	11.81	0	Ant 4b	QPSK	25	25	0 mm	back	1:1	0.670	12.58	
2310.00	27710	Mid	LTE Band 30	10	11.74	0	Ant 4b	QPSK	1	49	0 mm	top	1:1	0.513	13.67	
2310.00	27710	Mid	LTE Band 30	10	11.81	0	Ant 4b	QPSK	25	25	0 mm	top	1:1	0.529	13.61	
2310.00	27710	Mid	LTE Band 30	10	11.74	0	Ant 4b	QPSK	1	49	0 mm	bottom	1:1	0.000	40.77	
2310.00	27710	Mid	LTE Band 30	10	11.81	0	Ant 4b	QPSK	25	25	0 mm	bottom	1:1	0.000	40.84	
2310.00	27710	Mid	LTE Band 30	10	11.74	0	Ant 4b	QPSK	1	49	0 mm	right	1:1	0.008	31.74	
2310.00	27710	Mid	LTE Band 30	10	11.81	0	Ant 4b	QPSK	25	25	0 mm	right	1:1	0.008	31.81	
2310.00	27710	Mid	LTE Band 30	10	11.74	0	Ant 4b	QPSK	1	49	0 mm	left	1:1	0.033	25.59	
2310.00	27710	Mid	LTE Band 30	10	11.81	0	Ant 4b	QPSK	25	25	0 mm	left	1:1	0.034	25.53	
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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06/01/2019

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Table A-41
DSI = 1 P_{Limit} Calculations – Ant 1 LTE Band 7

MEASUREMENT RESULTS																
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Antenna Config.	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.													(W/kg)	[dBm]	[dBm]
2535.00	21100	Mid	LTE Band 7	20	10.83	0	Ant 1	QPSK	1	0	0 mm	back	1:1	0.483	13.02	12.22
2510.00	20850	Low	LTE Band 7	20	10.83	0	Ant 1	QPSK	50	25	0 mm	back	1:1	0.484	13.01	
2535.00	21100	Mid	LTE Band 7	20	10.88	0	Ant 1	QPSK	50	25	0 mm	back	1:1	0.498	12.94	
2560.00	21350	High	LTE Band 7	20	10.74	0	Ant 1	QPSK	50	25	0 mm	back	1:1	0.528	12.54	
2535.00	21100	Mid	LTE Band 7	20	10.83	0	Ant 1	QPSK	1	0	0 mm	top	1:1	0.003	35.09	
2535.00	21100	Mid	LTE Band 7	20	10.88	0	Ant 1	QPSK	50	25	0 mm	top	1:1	0.004	33.89	
2535.00	21100	Mid	LTE Band 7	20	10.83	0	Ant 1	QPSK	1	0	0 mm	bottom	1:1	0.228	16.28	
2535.00	21100	Mid	LTE Band 7	20	10.88	0	Ant 1	QPSK	50	25	0 mm	bottom	1:1	0.256	15.83	
2535.00	21100	Mid	LTE Band 7	20	10.83	0	Ant 1	QPSK	1	0	0 mm	right	1:1	0.001	39.86	
2535.00	21100	Mid	LTE Band 7	20	10.88	0	Ant 1	QPSK	50	25	0 mm	right	1:1	0.000	39.91	
2535.00	21100	Mid	LTE Band 7	20	10.83	0	Ant 1	QPSK	1	0	0 mm	left	1:1	0.179	17.33	
2535.00	21100	Mid	LTE Band 7	20	10.88	0	Ant 1	QPSK	50	25	0 mm	left	1:1	0.188	17.17	
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 A-42
DSI = 1 P_{Limit} Calculations – Ant 3 LTE Band 7

MEASUREMENT RESULTS																
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Antenna Config.	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.													(W/kg)	[dBm]	[dBm]
2510.00	20850	Low	LTE Band 7	20	14.81	0	Ant 3	QPSK	1	0	0 mm	back	1:1	0.425	17.56	15.28
2510.00	20850	Low	LTE Band 7	20	14.84	0	Ant 3	QPSK	50	25	0 mm	back	1:1	0.443	17.41	
2510.00	20850	Low	LTE Band 7	20	14.81	0	Ant 3	QPSK	1	0	0 mm	top	1:1	0.536	16.55	
2510.00	20850	Low	LTE Band 7	20	14.84	0	Ant 3	QPSK	50	25	0 mm	top	1:1	0.571	16.30	
2535.00	21100	Mid	LTE Band 7	20	14.76	0	Ant 3	QPSK	50	25	0 mm	top	1:1	0.576	16.19	
2560.00	21350	High	LTE Band 7	20	14.59	0	Ant 3	QPSK	50	25	0 mm	top	1:1	0.595	15.88	
2510.00	20850	Low	LTE Band 7	20	14.80	0	Ant 3	QPSK	100	0	0 mm	top	1:1	0.626	15.87	
2510.00	20850	Low	LTE Band 7	20	14.81	0	Ant 3	QPSK	1	0	0 mm	bottom	1:1	0.005	36.85	
2510.00	20850	Low	LTE Band 7	20	14.84	0	Ant 3	QPSK	50	25	0 mm	bottom	1:1	0.003	39.10	
2510.00	20850	Low	LTE Band 7	20	14.81	0	Ant 3	QPSK	1	0	0 mm	right	1:1	0.334	18.60	
2510.00	20850	Low	LTE Band 7	20	14.84	0	Ant 3	QPSK	50	25	0 mm	right	1:1	0.337	18.59	
2510.00	20850	Low	LTE Band 7	20	14.81	0	Ant 3	QPSK	1	0	0 mm	left	1:1	0.010	33.84	
2510.00	20850	Low	LTE Band 7	20	14.84	0	Ant 3	QPSK	50	25	0 mm	left	1:1	0.011	33.46	
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 A-43
DSI = 1 P_{Limit} Calculations – Ant 2b LTE Band 7

MEASUREMENT RESULTS																
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Antenna Config.	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.													(W/kg)	[dBm]	[dBm]
2535.00	21100	Mid	LTE Band 7	20	13.43	0	Ant 2b	QPSK	1	0	0 mm	back	1:1	0.587	14.77	14.32
2510.00	20850	Low	LTE Band 7	20	13.49	0	Ant 2b	QPSK	50	0	0 mm	back	1:1	0.615	14.63	
2535.00	21100	Mid	LTE Band 7	20	13.41	0	Ant 2b	QPSK	50	0	0 mm	back	1:1	0.615	14.55	
2560.00	21350	High	LTE Band 7	20	13.39	0	Ant 2b	QPSK	50	0	0 mm	back	1:1	0.646	14.32	
2535.00	21100	Mid	LTE Band 7	20	13.43	0	Ant 2b	QPSK	1	0	0 mm	top	1:1	0.000	42.46	
2510.00	20850	Low	LTE Band 7	20	13.49	0	Ant 2b	QPSK	50	0	0 mm	top	1:1	0.000	42.52	
2535.00	21100	Mid	LTE Band 7	20	13.43	0	Ant 2b	QPSK	1	0	0 mm	bottom	1:1	0.459	15.84	
2510.00	20850	Low	LTE Band 7	20	13.49	0	Ant 2b	QPSK	50	0	0 mm	bottom	1:1	0.504	15.50	
2535.00	21100	Mid	LTE Band 7	20	13.43	0	Ant 2b	QPSK	1	0	0 mm	right	1:1	0.033	27.28	
2510.00	20850	Low	LTE Band 7	20	13.49	0	Ant 2b	QPSK	50	0	0 mm	right	1:1	0.034	27.21	
2535.00	21100	Mid	LTE Band 7	20	13.43	0	Ant 2b	QPSK	1	0	0 mm	left	1:1	0.028	27.99	
2510.00	20850	Low	LTE Band 7	20	13.49	0	Ant 2b	QPSK	50	0	0 mm	left	1:1	0.025	28.54	
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 A-44
DSI = 1 P_{Limit} Calculations – Ant 4b LTE Band 7

MEASUREMENT RESULTS																
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Antenna Config.	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.													(W/kg)	[dBm]	[dBm]
2560.00	21350	High	LTE Band 7	20	11.30	0	Ant 4b	QPSK	1	0	0 mm	back	1:1	0.566	12.80	11.89
2510.00	20850	Low	LTE Band 7	20	11.43	0	Ant 4b	QPSK	50	0	0 mm	back	1:1	0.570	12.90	
2510.00	20850	Low	LTE Band 7	20	11.21	0	Ant 4b	QPSK	1	0	0 mm	top	1:1	0.680	11.92	
2535.00	21100	Mid	LTE Band 7	20	11.23	0	Ant 4b	QPSK	1	0	0 mm	top	1:1	0.660	12.07	
2560.00	21350	High	LTE Band 7	20	11.30	0	Ant 4b	QPSK	1	0	0 mm	top	1:1	0.669	12.08	
2510.00	20850	Low	LTE Band 7	20	11.43	0	Ant 4b	QPSK	50	0	0 mm	top	1:1	0.697	12.03	
2535.00	21100	Mid	LTE Band 7	20	11.42	0	Ant 4b	QPSK	50	0	0 mm	top	1:1	0.683	12.11	
2560.00	21350	High	LTE Band 7	20	11.25	0	Ant 4b	QPSK	50	50	0 mm	top	1:1	0.678	11.97	
2510.00	20850	Low	LTE Band 7	20	11.29	0	Ant 4b	QPSK	100	0	0 mm	top	1:1	0.696	11.89	
2560.00	21350	High	LTE Band 7	20	11.30	0	Ant 4b	QPSK	1	0	0 mm	bottom	1:1	0.000	40.33	
2510.00	20850	Low	LTE Band 7	20	11.43	0	Ant 4b	QPSK	50	0	0 mm	bottom	1:1	0.000	40.46	
2560.00	21350	High	LTE Band 7	20	11.30	0	Ant 4b	QPSK	1	0	0 mm	right	1:1	0.011	29.92	
2510.00	20850	Low	LTE Band 7	20	11.43	0	Ant 4b	QPSK	50	0	0 mm	right	1:1	0.010	30.46	
2560.00	21350	High	LTE Band 7	20	11.30	0	Ant 4b	QPSK	1	0	0 mm	left	1:1	0.025	26.35	
2510.00	20850	Low	LTE Band 7	20	11.43	0	Ant 4b	QPSK	50	0	0 mm	left	1:1	0.030	25.69	
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 A-45
DSI = 1 P_{Limit} Calculations – Ant 1 LTE Band 41

MEASUREMENT RESULTS																
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Antenna Config.	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.													(W/kg)	[dBm]	[dBm]
2506.00	39750	Low	LTE Band 41	20	12.93	0	Ant 1	QPSK	1	99	0 mm	back	1:1.58	0.458	13.37	11.96
2549.50	40185	Low-Mid	LTE Band 41	20	12.80	0	Ant 1	QPSK	1	0	0 mm	back	1:1.58	0.474	13.09	
2593.00	40620	Mid	LTE Band 41	20	12.79	0	Ant 1	QPSK	1	0	0 mm	back	1:1.58	0.532	12.58	
2636.50	41055	Mid-High	LTE Band 41	20	12.75	0	Ant 1	QPSK	1	0	0 mm	back	1:1.58	0.560	12.31	
2680.00	41490	High	LTE Band 41	20	12.94	0	Ant 1	QPSK	1	0	0 mm	back	1:1.58	0.586	12.31	
2506.00	39750	Low	LTE Band 41	20	12.98	0	Ant 1	QPSK	50	25	0 mm	back	1:1.58	0.479	13.22	
2549.50	40185	Low-Mid	LTE Band 41	20	13.01	0	Ant 1	QPSK	50	0	0 mm	back	1:1.58	0.492	13.14	
2593.00	40620	Mid	LTE Band 41	20	12.87	0	Ant 1	QPSK	50	50	0 mm	back	1:1.58	0.540	12.59	
2636.50	41055	Mid-High	LTE Band 41	20	12.90	0	Ant 1	QPSK	50	50	0 mm	back	1:1.58	0.574	12.36	
2680.00	41490	High	LTE Band 41	20	12.89	0	Ant 1	QPSK	50	25	0 mm	back	1:1.58	0.628	11.96	
2549.50	40185	Low-Mid	LTE Band 41	20	12.93	0	Ant 1	QPSK	100	0	0 mm	back	1:1.58	0.502	12.97	
2680.00	41490	High	LTE Band 41	20	12.94	0	Ant 1	QPSK	1	0	0 mm	top	1:1.58	0.001	39.99	
2549.50	40185	Low-Mid	LTE Band 41	20	13.01	0	Ant 1	QPSK	50	0	0 mm	top	1:1.58	0.003	35.28	
2680.00	41490	High	LTE Band 41	20	12.94	0	Ant 1	QPSK	1	0	0 mm	bottom	1:1.58	0.313	15.03	
2549.50	40185	Low-Mid	LTE Band 41	20	13.01	0	Ant 1	QPSK	50	0	0 mm	bottom	1:1.58	0.266	15.81	
2680.00	41490	High	LTE Band 41	20	12.94	0	Ant 1	QPSK	1	0	0 mm	right	1:1.58	0.001	39.99	
2549.50	40185	Low-Mid	LTE Band 41	20	13.01	0	Ant 1	QPSK	50	0	0 mm	right	1:1.58	0.001	40.05	
2680.00	41490	High	LTE Band 41	20	12.94	0	Ant 1	QPSK	1	0	0 mm	left	1:1.58	0.203	16.91	
2549.50	40185	Low-Mid	LTE Band 41	20	13.01	0	Ant 1	QPSK	50	0	0 mm	left	1:1.58	0.154	18.18	
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 A-46
DSI = 1 P_{Limit} Calculations – Ant 3 LTE Band 41

MEASUREMENT RESULTS																
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Antenna Config.	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.													(W/kg)	[dBm]	[dBm]
2506.00	39750	Low	LTE Band 41	20	13.14	0	Ant 3	QPSK	1	99	0 mm	back	1:1.58	0.170	17.88	12.37
2549.50	40185	Low-Mid	LTE Band 41	20	13.41	0	Ant 3	QPSK	1	0	0 mm	back	1:1.58	0.216	17.11	
2593.00	40620	Mid	LTE Band 41	20	13.26	0	Ant 3	QPSK	1	99	0 mm	back	1:1.58	0.301	15.52	
2636.50	41055	Mid-High	LTE Band 41	20	13.19	0	Ant 3	QPSK	1	0	0 mm	back	1:1.58	0.391	14.31	
2680.00	41490	High	LTE Band 41	20	13.43	0	Ant 3	QPSK	1	0	0 mm	back	1:1.58	0.497	13.51	
2506.00	39750	Low	LTE Band 41	20	13.37	0	Ant 3	QPSK	50	50	0 mm	back	1:1.58	0.192	17.58	
2549.50	40185	Low-Mid	LTE Band 41	20	13.40	0	Ant 3	QPSK	50	0	0 mm	back	1:1.58	0.228	16.87	
2593.00	40620	Mid	LTE Band 41	20	13.31	0	Ant 3	QPSK	50	0	0 mm	back	1:1.58	0.307	15.48	
2636.50	41055	Mid-High	LTE Band 41	20	13.26	0	Ant 3	QPSK	50	0	0 mm	back	1:1.58	0.407	14.21	
2680.00	41490	High	LTE Band 41	20	13.41	0	Ant 3	QPSK	50	0	0 mm	back	1:1.58	0.644	12.37	
2680.00	41490	High	LTE Band 41	20	13.38	0	Ant 3	QPSK	100	0	0 mm	back	1:1.58	0.532	13.17	
2680.00	41490	High	LTE Band 41	20	13.43	0	Ant 3	QPSK	1	0	0 mm	top	1:1.58	0.438	14.06	
2680.00	41490	High	LTE Band 41	20	13.41	0	Ant 3	QPSK	50	0	0 mm	top	1:1.58	0.440	14.02	
2680.00	41490	High	LTE Band 41	20	13.43	0	Ant 3	QPSK	1	0	0 mm	bottom	1:1.58	0.000	40.48	
2680.00	41490	High	LTE Band 41	20	13.41	0	Ant 3	QPSK	50	0	0 mm	bottom	1:1.58	0.000	40.45	
2680.00	41490	High	LTE Band 41	20	13.43	0	Ant 3	QPSK	1	0	0 mm	right	1:1.58	0.227	16.91	
2680.00	41490	High	LTE Band 41	20	13.41	0	Ant 3	QPSK	50	0	0 mm	right	1:1.58	0.221	17.01	
2680.00	41490	High	LTE Band 41	20	13.43	0	Ant 3	QPSK	1	0	0 mm	left	1:1.58	0.004	34.45	
2680.00	41490	High	LTE Band 41	20	13.41	0	Ant 3	QPSK	50	0	0 mm	left	1:1.58	0.004	34.43	
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 A-47
DSI = 1 P_{Limit} Calculations – Ant 2b LTE Band 41

MEASUREMENT RESULTS																
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Antenna Config.	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.													(W/kg)	[dBm]	[dBm]
2506.00	39750	Low	LTE Band 41	20	14.78	0	Ant 2b	QPSK	1	50	0 mm	back	1:1.58	0.549	14.43	13.22
2549.50	40185	Low-Mid	LTE Band 41	20	14.78	0	Ant 2b	QPSK	1	0	0 mm	back	1:1.58	0.564	14.31	
2593.00	40620	Mid	LTE Band 41	20	14.93	0	Ant 2b	QPSK	1	0	0 mm	back	1:1.58	0.635	13.95	
2636.50	41055	Mid-High	LTE Band 41	20	15.01	0	Ant 2b	QPSK	1	0	0 mm	back	1:1.58	0.688	13.68	
2680.00	41490	High	LTE Band 41	20	14.91	0	Ant 2b	QPSK	1	99	0 mm	back	1:1.58	0.660	13.76	
2506.00	39750	Low	LTE Band 41	20	15.01	0	Ant 2b	QPSK	50	25	0 mm	back	1:1.58	0.578	14.44	
2549.50	40185	Low-Mid	LTE Band 41	20	15.00	0	Ant 2b	QPSK	50	0	0 mm	back	1:1.58	0.600	14.26	
2593.00	40620	Mid	LTE Band 41	20	14.96	0	Ant 2b	QPSK	50	25	0 mm	back	1:1.58	0.655	13.84	
2636.50	41055	Mid-High	LTE Band 41	20	15.06	0	Ant 2b	QPSK	50	0	0 mm	back	1:1.58	0.684	13.75	
2680.00	41490	High	LTE Band 41	20	14.63	0	Ant 2b	QPSK	50	0	0 mm	back	1:1.58	0.701	13.22	
2680.00	41490	High	LTE Band 41	20	14.97	0	Ant 2b	QPSK	50	50	0 mm	back	1:1.58	0.696	13.59	
2506.00	39750	Low	LTE Band 41	20	14.99	0	Ant 2b	QPSK	100	0	0 mm	back	1:1.58	0.576	14.43	
2636.50	41055	Mid-High	LTE Band 41	20	15.01	0	Ant 2b	QPSK	1	0	0 mm	top	1:1.58	0.004	36.03	
2636.50	41055	Mid-High	LTE Band 41	20	15.06	0	Ant 2b	QPSK	50	0	0 mm	top	1:1.58	0.004	36.08	
2636.50	41055	Mid-High	LTE Band 41	20	15.01	0	Ant 2b	QPSK	1	0	0 mm	bottom	1:1.58	0.377	16.29	
2636.50	41055	Mid-High	LTE Band 41	20	15.06	0	Ant 2b	QPSK	50	0	0 mm	bottom	1:1.58	0.382	16.28	
2636.50	41055	Mid-High	LTE Band 41	20	15.01	0	Ant 2b	QPSK	1	0	0 mm	right	1:1.58	0.018	29.50	
2636.50	41055	Mid-High	LTE Band 41	20	15.06	0	Ant 2b	QPSK	50	0	0 mm	right	1:1.58	0.016	30.06	
2636.50	41055	Mid-High	LTE Band 41	20	15.01	0	Ant 2b	QPSK	1	0	0 mm	left	1:1.58	0.011	31.64	
2636.50	41055	Mid-High	LTE Band 41	20	15.06	0	Ant 2b	QPSK	50	0	0 mm	left	1:1.58	0.011	31.69	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT						Body 1.6 W/kg (mW/g) averaged over 1 gram										
Spatial Peak																
Uncontrolled Exposure/General Population																

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Table A-48
DSI = 1 P_{Limit} Calculations – Ant 4b LTE Band 41

MEASUREMENT RESULTS																
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Antenna Config.	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.													(W/kg)	[dBm]	[dBm]
2593.00	40620	Mid	LTE Band 41	20	13.45	0	Ant 4b	QPSK	1	0	0 mm	back	1:1.58	0.340	15.18	12.36
2593.00	40620	Mid	LTE Band 41	20	13.49	0	Ant 4b	QPSK	50	25	0 mm	back	1:1.58	0.394	14.58	
2506.00	39750	Low	LTE Band 41	20	13.24	0	Ant 4b	QPSK	1	0	0 mm	top	1:1.58	0.556	12.83	
2549.50	40185	Low-Mid	LTE Band 41	20	13.30	0	Ant 4b	QPSK	1	0	0 mm	top	1:1.58	0.561	12.86	
2593.00	40620	Mid	LTE Band 41	20	13.45	0	Ant 4b	QPSK	1	0	0 mm	top	1:1.58	0.611	12.63	
2636.50	41055	Mid-High	LTE Band 41	20	13.38	0	Ant 4b	QPSK	1	0	0 mm	top	1:1.58	0.640	12.36	
2680.00	41490	High	LTE Band 41	20	13.37	0	Ant 4b	QPSK	1	0	0 mm	top	1:1.58	0.601	12.63	
2506.00	39750	Low	LTE Band 41	20	13.44	0	Ant 4b	QPSK	50	25	0 mm	top	1:1.58	0.608	12.65	
2549.50	40185	Low-Mid	LTE Band 41	20	13.35	0	Ant 4b	QPSK	50	25	0 mm	top	1:1.58	0.601	12.61	
2593.00	40620	Mid	LTE Band 41	20	13.49	0	Ant 4b	QPSK	50	25	0 mm	top	1:1.58	0.608	12.70	
2636.50	41055	Mid-High	LTE Band 41	20	13.46	0	Ant 4b	QPSK	50	25	0 mm	top	1:1.58	0.598	12.74	
2680.00	41490	High	LTE Band 41	20	13.40	0	Ant 4b	QPSK	50	50	0 mm	top	1:1.58	0.606	12.62	
2636.50	41055	Mid-High	LTE Band 41	20	13.44	0	Ant 4b	QPSK	100	0	0 mm	top	1:1.58	0.595	12.74	
2593.00	40620	Mid	LTE Band 41	20	13.45	0	Ant 4b	QPSK	1	0	0 mm	bottom	1:1.58	0.000	40.49	
2593.00	40620	Mid	LTE Band 41	20	13.49	0	Ant 4b	QPSK	50	25	0 mm	bottom	1:1.58	0.000	40.54	
2593.00	40620	Mid	LTE Band 41	20	13.45	0	Ant 4b	QPSK	1	0	0 mm	right	1:1.58	0.011	30.08	
2593.00	40620	Mid	LTE Band 41	20	13.49	0	Ant 4b	QPSK	50	25	0 mm	right	1:1.58	0.009	30.99	
2593.00	40620	Mid	LTE Band 41	20	13.45	0	Ant 4b	QPSK	1	0	0 mm	left	1:1.58	0.017	28.19	
2593.00	40620	Mid	LTE Band 41	20	13.49	0	Ant 4b	QPSK	50	25	0 mm	left	1:1.58	0.016	28.49	
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 A-49
DSI = 1 P_{Limit} Calculations – Ant 1 LTE Band 48

MEASUREMENT RESULTS																
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Antenna Config.	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.													(W/kg)	[dBm]	[dBm]
3560.00	55340	Low	LTE Band 48	20	12.94	0	Ant 1	QPSK	1	99	0 mm	back	1:1.58	0.565	12.46	12.31
3603.30	55773	Low-Mid	LTE Band 48	20	12.82	0	Ant 1	QPSK	1	99	0 mm	back	1:1.58	0.529	12.63	
3646.70	56207	Mid-High	LTE Band 48	20	12.95	0	Ant 1	QPSK	1	0	0 mm	back	1:1.58	0.549	12.60	
3690.00	56640	High	LTE Band 48	20	13.15	0	Ant 1	QPSK	1	99	0 mm	back	1:1.58	0.572	12.62	
3560.00	55340	Low	LTE Band 48	20	12.82	0	Ant 1	QPSK	50	25	0 mm	back	1:1.58	0.568	12.32	
3603.30	55773	Low-Mid	LTE Band 48	20	12.89	0	Ant 1	QPSK	50	50	0 mm	back	1:1.58	0.547	12.56	
3646.70	56207	Mid-High	LTE Band 48	20	13.09	0	Ant 1	QPSK	50	50	0 mm	back	1:1.58	0.550	12.73	
3690.00	56640	High	LTE Band 48	20	13.31	0	Ant 1	QPSK	50	50	0 mm	back	1:1.58	0.576	12.75	
3690.00	56640	High	LTE Band 48	20	13.14	0	Ant 1	QPSK	100	0	0 mm	back	1:1.58	0.555	12.74	
3690.00	56640	High	LTE Band 48	20	13.15	0	Ant 1	QPSK	1	99	0 mm	top	1:1.58	0.000	40.19	
3690.00	56640	High	LTE Band 48	20	13.31	0	Ant 1	QPSK	50	50	0 mm	top	1:1.58	0.000	40.35	
3690.00	56640	High	LTE Band 48	20	13.15	0	Ant 1	QPSK	1	99	0 mm	bottom	1:1.58	0.439	13.77	
3690.00	56640	High	LTE Band 48	20	13.31	0	Ant 1	QPSK	50	50	0 mm	bottom	1:1.58	0.450	13.82	
3690.00	56640	High	LTE Band 48	20	13.15	0	Ant 1	QPSK	1	99	0 mm	right	1:1.58	0.015	28.43	
3690.00	56640	High	LTE Band 48	20	13.31	0	Ant 1	QPSK	50	50	0 mm	right	1:1.58	0.012	29.56	
3560.00	55340	Low	LTE Band 48	20	12.94	0	Ant 1	QPSK	1	99	0 mm	left	1:1.58	0.352	14.52	
3603.30	55773	Low-Mid	LTE Band 48	20	12.82	0	Ant 1	QPSK	1	99	0 mm	left	1:1.58	0.404	13.80	
3646.70	56207	Mid-High	LTE Band 48	20	12.95	0	Ant 1	QPSK	1	0	0 mm	left	1:1.58	0.470	13.27	
3690.00	56640	High	LTE Band 48	20	13.15	0	Ant 1	QPSK	1	99	0 mm	left	1:1.58	0.614	12.31	
3560.00	55340	Low	LTE Band 48	20	12.82	0	Ant 1	QPSK	50	25	0 mm	left	1:1.58	0.359	14.31	
3603.30	55773	Low-Mid	LTE Band 48	20	12.89	0	Ant 1	QPSK	50	50	0 mm	left	1:1.58	0.413	13.78	
3646.70	56207	Mid-High	LTE Band 48	20	13.09	0	Ant 1	QPSK	50	50	0 mm	left	1:1.58	0.491	13.22	
3690.00	56640	High	LTE Band 48	20	13.31	0	Ant 1	QPSK	50	50	0 mm	left	1:1.58	0.615	12.47	
3690.00	56640	High	LTE Band 48	20	13.14	0	Ant 1	QPSK	100	0	0 mm	left	1:1.58	0.579	12.56	
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 A-50
DSI = 1 P_{Limit} Calculations – Ant 3 LTE Band 48

MEASUREMENT RESULTS																
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Antenna Config.	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.													(W/kg)	[dBm]	[dBm]
3560.00	55340	Low	LTE Band 48	20	11.56	0	Ant 3	QPSK	1	99	0 mm	back	1:1.58	0.720	10.03	9.80
3603.30	55773	Low-Mid	LTE Band 48	20	11.58	0	Ant 3	QPSK	1	99	0 mm	back	1:1.58	0.674	10.34	
3646.70	56207	Mid-High	LTE Band 48	20	11.75	0	Ant 3	QPSK	1	0	0 mm	back	1:1.58	0.692	10.39	
3690.00	56640	High	LTE Band 48	20	11.60	0	Ant 3	QPSK	1	0	0 mm	back	1:1.58	0.709	10.14	
3560.00	55340	Low	LTE Band 48	20	11.71	0	Ant 3	QPSK	50	50	0 mm	back	1:1.58	0.786	9.80	
3603.30	55773	Low-Mid	LTE Band 48	20	11.60	0	Ant 3	QPSK	50	50	0 mm	back	1:1.58	0.680	10.32	
3646.70	56207	Mid-High	LTE Band 48	20	11.70	0	Ant 3	QPSK	50	25	0 mm	back	1:1.58	0.694	10.33	
3690.00	56640	High	LTE Band 48	20	11.63	0	Ant 3	QPSK	50	0	0 mm	back	1:1.58	0.722	10.09	
3690.00	56640	High	LTE Band 48	20	11.70	0	Ant 3	QPSK	100	0	0 mm	back	1:1.58	0.736	10.08	
3646.70	56207	Mid-High	LTE Band 48	20	11.75	0	Ant 3	QPSK	1	0	0 mm	top	1:1.58	0.291	14.16	
3560.00	55340	Low	LTE Band 48	20	11.71	0	Ant 3	QPSK	50	50	0 mm	top	1:1.58	0.289	14.15	
3646.70	56207	Mid-High	LTE Band 48	20	11.75	0	Ant 3	QPSK	1	0	0 mm	bottom	1:1.58	0.000	38.79	
3560.00	55340	Low	LTE Band 48	20	11.71	0	Ant 3	QPSK	50	50	0 mm	bottom	1:1.58	0.000	38.75	
3646.70	56207	Mid-High	LTE Band 48	20	11.75	0	Ant 3	QPSK	1	0	0 mm	right	1:1.58	0.363	13.20	
3560.00	55340	Low	LTE Band 48	20	11.71	0	Ant 3	QPSK	50	50	0 mm	right	1:1.58	0.361	13.18	
3646.70	56207	Mid-High	LTE Band 48	20	11.75	0	Ant 3	QPSK	1	0	0 mm	left	1:1.58	0.008	29.76	
3560.00	55340	Low	LTE Band 48	20	11.71	0	Ant 3	QPSK	50	50	0 mm	left	1:1.58	0.004	32.73	
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 A-51
DSI = 1 P_{Limit} Calculations – Ant 2a LTE Band 48

MEASUREMENT RESULTS																
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Antenna Config.	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.	(W/kg)												[dBm]	[dBm]	
3560.00	55340	Low	LTE Band 48	20	13.58	0	Ant 2a	QPSK	1	0	0 mm	back	1:1.58	0.642	12.55	10.88
3603.30	55773	Low-Mid	LTE Band 48	20	13.46	0	Ant 2a	QPSK	1	0	0 mm	back	1:1.58	0.707	12.01	
3646.70	56207	Mid-High	LTE Band 48	20	13.40	0	Ant 2a	QPSK	1	0	0 mm	back	1:1.58	0.811	11.35	
3690.00	56640	High	LTE Band 48	20	13.35	0	Ant 2a	QPSK	1	0	0 mm	back	1:1.58	0.734	11.74	
3560.00	55340	Low	LTE Band 48	20	13.59	0	Ant 2a	QPSK	50	0	0 mm	back	1:1.58	0.645	12.54	
3603.30	55773	Low-Mid	LTE Band 48	20	13.56	0	Ant 2a	QPSK	50	0	0 mm	back	1:1.58	0.722	12.02	
3646.70	56207	Mid-High	LTE Band 48	20	13.53	0	Ant 2a	QPSK	50	0	0 mm	back	1:1.58	0.820	11.44	
3690.00	56640	High	LTE Band 48	20	13.40	0	Ant 2a	QPSK	50	0	0 mm	back	1:1.58	0.742	11.74	
3560.00	55340	Low	LTE Band 48	20	13.57	0	Ant 2a	QPSK	100	0	0 mm	back	1:1.58	0.650	12.49	
3560.00	55340	Low	LTE Band 48	20	13.58	0	Ant 2a	QPSK	1	0	0 mm	top	1:1.58	0.000	40.63	
3560.00	55340	Low	LTE Band 48	20	13.59	0	Ant 2a	QPSK	50	0	0 mm	top	1:1.58	0.000	40.63	
3560.00	55340	Low	LTE Band 48	20	13.58	0	Ant 2a	QPSK	1	0	0 mm	bottom	1:1.58	0.217	17.26	
3560.00	55340	Low	LTE Band 48	20	13.59	0	Ant 2a	QPSK	50	0	0 mm	bottom	1:1.58	0.218	17.25	
3560.00	55340	Low	LTE Band 48	20	13.58	0	Ant 2a	QPSK	1	0	0 mm	right	1:1.58	0.714	12.09	
3603.30	55773	Low-Mid	LTE Band 48	20	13.46	0	Ant 2a	QPSK	1	0	0 mm	right	1:1.58	0.820	11.37	
3646.70	56207	Mid-High	LTE Band 48	20	13.40	0	Ant 2a	QPSK	1	0	0 mm	right	1:1.58	0.905	10.88	
3690.00	56640	High	LTE Band 48	20	13.35	0	Ant 2a	QPSK	1	0	0 mm	right	1:1.58	0.804	11.34	
3560.00	55340	Low	LTE Band 48	20	13.59	0	Ant 2a	QPSK	50	0	0 mm	right	1:1.58	0.747	11.90	
3603.30	55773	Low-Mid	LTE Band 48	20	13.56	0	Ant 2a	QPSK	50	0	0 mm	right	1:1.58	0.854	11.29	
3646.70	56207	Mid-High	LTE Band 48	20	13.53	0	Ant 2a	QPSK	50	0	0 mm	right	1:1.58	0.918	10.95	
3690.00	56640	High	LTE Band 48	20	13.40	0	Ant 2a	QPSK	50	0	0 mm	right	1:1.58	0.815	11.33	
3560.00	55340	Low	LTE Band 48	20	13.57	0	Ant 2a	QPSK	100	0	0 mm	right	1:1.58	0.755	11.84	
3560.00	55340	Low	LTE Band 48	20	13.58	0	Ant 2a	QPSK	1	0	0 mm	left	1:1.58	0.000	40.63	
3560.00	55340	Low	LTE Band 48	20	13.59	0	Ant 2a	QPSK	50	0	0 mm	left	1:1.58	0.001	40.63	
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 A-52
DSI = 1 P_{Limit} Calculations – Ant 4a LTE Band 48

MEASUREMENT RESULTS																
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Antenna Config.	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.	(W/kg)												[dBm]	[dBm]	
3560.00	55340	Low	LTE Band 48	20	13.05	0	Ant 4a	QPSK	1	0	0 mm	back	1:1.58	0.791	11.11	10.52
3603.30	55773	Low-Mid	LTE Band 48	20	13.02	0	Ant 4a	QPSK	1	0	0 mm	back	1:1.58	0.756	11.28	
3646.70	56207	Mid-High	LTE Band 48	20	13.03	0	Ant 4a	QPSK	1	0	0 mm	back	1:1.58	0.747	11.34	
3690.00	56640	High	LTE Band 48	20	13.09	0	Ant 4a	QPSK	1	99	0 mm	back	1:1.58	0.738	11.45	
3560.00	55340	Low	LTE Band 48	20	13.10	0	Ant 4a	QPSK	50	0	0 mm	back	1:1.58	0.807	11.08	
3603.30	55773	Low-Mid	LTE Band 48	20	13.09	0	Ant 4a	QPSK	50	0	0 mm	back	1:1.58	0.771	11.26	
3646.70	56207	Mid-High	LTE Band 48	20	13.14	0	Ant 4a	QPSK	50	0	0 mm	back	1:1.58	0.748	11.45	
3690.00	56640	High	LTE Band 48	20	12.84	0	Ant 4a	QPSK	50	0	0 mm	back	1:1.58	0.744	11.17	
3646.70	56207	Mid-High	LTE Band 48	20	13.08	0	Ant 4a	QPSK	100	0	0 mm	back	1:1.58	0.758	11.33	
3690.00	56640	High	LTE Band 48	20	13.09	0	Ant 4a	QPSK	1	99	0 mm	top	1:1.58	0.202	17.08	
3646.70	56207	Mid-High	LTE Band 48	20	13.14	0	Ant 4a	QPSK	50	0	0 mm	top	1:1.58	0.205	17.07	
3690.00	56640	High	LTE Band 48	20	13.09	0	Ant 4a	QPSK	1	99	0 mm	bottom	1:1.58	0.000	40.13	
3646.70	56207	Mid-High	LTE Band 48	20	13.14	0	Ant 4a	QPSK	50	0	0 mm	bottom	1:1.58	0.000	40.19	
3690.00	56640	High	LTE Band 48	20	13.09	0	Ant 4a	QPSK	1	99	0 mm	right	1:1.58	0.000	40.13	
3646.70	56207	Mid-High	LTE Band 48	20	13.14	0	Ant 4a	QPSK	50	0	0 mm	right	1:1.58	0.000	40.19	
3560.00	55340	Low	LTE Band 48	20	13.05	0	Ant 4a	QPSK	1	0	0 mm	left	1:1.58	0.889	10.61	
3603.30	55773	Low-Mid	LTE Band 48	20	13.02	0	Ant 4a	QPSK	1	0	0 mm	left	1:1.58	0.819	10.93	
3646.70	56207	Mid-High	LTE Band 48	20	13.03	0	Ant 4a	QPSK	1	0	0 mm	left	1:1.58	0.829	10.89	
3690.00	56640	High	LTE Band 48	20	13.09	0	Ant 4a	QPSK	1	99	0 mm	left	1:1.58	0.837	10.91	
3560.00	55340	Low	LTE Band 48	20	13.10	0	Ant 4a	QPSK	50	0	0 mm	left	1:1.58	0.893	10.64	
3603.30	55773	Low-Mid	LTE Band 48	20	13.09	0	Ant 4a	QPSK	50	0	0 mm	left	1:1.58	0.850	10.84	
3646.70	56207	Mid-High	LTE Band 48	20	13.14	0	Ant 4a	QPSK	50	0	0 mm	left	1:1.58	0.848	10.90	
3690.00	56640	High	LTE Band 48	20	12.84	0	Ant 4a	QPSK	50	0	0 mm	left	1:1.58	0.853	10.58	
3646.70	56207	Mid-High	LTE Band 48	20	13.08	0	Ant 4a	QPSK	100	0	0 mm	left	1:1.58	0.846	10.85	
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 A-53
DSI = 1 P_{Limit} Calculations – Ant 1 NR Band n71

MEASUREMENT RESULTS																	
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	Antenna Config	MPR [dB]	Waveform	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.														(W/kg)	[dBm]	[dBm]
680.50	136100	Mid	NR Band n71	20	19.50	Ant 1	0.0	DFT-S-OFDM	QPSK	1	1	0 mm	back	1:1	0.367	22.88	21.64
680.50	136100	Mid	NR Band n71	20	19.38	Ant 1	0.0	DFT-S-OFDM	QPSK	50	0	0 mm	back	1:1	0.475	21.64	
680.50	136100	Mid	NR Band n71	20	19.50	Ant 1	0.0	CP-OFDM	QPSK	1	1	0 mm	back	1:1	0.480	21.72	
680.50	136100	Mid	NR Band n71	20	19.50	Ant 1	0.0	DFT-S-OFDM	QPSK	1	1	0 mm	top	1:1	0.003	43.76	
680.50	136100	Mid	NR Band n71	20	19.38	Ant 1	0.0	DFT-S-OFDM	QPSK	50	0	0 mm	top	1:1	0.003	43.64	
680.50	136100	Mid	NR Band n71	20	19.50	Ant 1	0.0	DFT-S-OFDM	QPSK	1	1	0 mm	bottom	1:1	0.402	22.49	
680.50	136100	Mid	NR Band n71	20	19.38	Ant 1	0.0	DFT-S-OFDM	QPSK	50	0	0 mm	bottom	1:1	0.419	22.19	
680.50	136100	Mid	NR Band n71	20	19.50	Ant 1	0.0	DFT-S-OFDM	QPSK	1	1	0 mm	right	1:1	0.010	38.53	
680.50	136100	Mid	NR Band n71	20	19.38	Ant 1	0.0	DFT-S-OFDM	QPSK	50	0	0 mm	right	1:1	0.011	38.00	
680.50	136100	Mid	NR Band n71	20	19.50	Ant 1	0.0	DFT-S-OFDM	QPSK	1	1	0 mm	left	1:1	0.111	28.08	
680.50	136100	Mid	NR Band n71	20	19.38	Ant 1	0.0	DFT-S-OFDM	QPSK	50	0	0 mm	left	1:1	0.117	27.73	
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 A-54
DSI = 1 P_{Limit} Calculations – Ant 3 NR Band n71

MEASUREMENT RESULTS																	
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	Antenna Config	MPR [dB]	Waveform	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.														(W/kg)	[dBm]	[dBm]
680.50	136100	Mid	NR Band n71	20	19.45	Ant 3	0.0	DFT-S-OFDM	QPSK	1	53	0 mm	back	1:1	0.522	21.30	20.74
680.50	136100	Mid	NR Band n71	20	19.32	Ant 3	0.0	DFT-S-OFDM	QPSK	50	28	0 mm	back	1:1	0.550	20.95	
680.50	136100	Mid	NR Band n71	20	19.37	Ant 3	0.0	CP-OFDM	QPSK	1	1	0 mm	back	1:1	0.583	20.74	
680.50	136100	Mid	NR Band n71	20	19.45	Ant 3	0.0	DFT-S-OFDM	QPSK	1	53	0 mm	top	1:1	0.422	22.23	
680.50	136100	Mid	NR Band n71	20	19.32	Ant 3	0.0	DFT-S-OFDM	QPSK	50	28	0 mm	top	1:1	0.421	22.11	
680.50	136100	Mid	NR Band n71	20	19.45	Ant 3	0.0	DFT-S-OFDM	QPSK	1	53	0 mm	bottom	1:1	0.004	42.46	
680.50	136100	Mid	NR Band n71	20	19.32	Ant 3	0.0	DFT-S-OFDM	QPSK	50	28	0 mm	bottom	1:1	0.005	41.36	
680.50	136100	Mid	NR Band n71	20	19.45	Ant 3	0.0	DFT-S-OFDM	QPSK	1	53	0 mm	right	1:1	0.208	25.30	
680.50	136100	Mid	NR Band n71	20	19.32	Ant 3	0.0	DFT-S-OFDM	QPSK	50	28	0 mm	right	1:1	0.218	24.97	
680.50	136100	Mid	NR Band n71	20	19.45	Ant 3	0.0	DFT-S-OFDM	QPSK	1	53	0 mm	left	1:1	0.021	35.26	
680.50	136100	Mid	NR Band n71	20	19.32	Ant 3	0.0	DFT-S-OFDM	QPSK	50	28	0 mm	left	1:1	0.021	35.13	
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 A-55
DSI = 1 P_{Limit} Calculations – Ant 1 NR Band n12

MEASUREMENT RESULTS																	
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	Antenna Config	MPR [dB]	Waveform	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.	(W/kg)													[dBm]	[dBm]	
707.50	141500	Mid	NR Band n12	15	19.27	Ant 1	0.0	DFT-S-OFDM	QPSK	1	40	0 mm	back	1:1	0.694	19.89	19.24
707.50	141500	Mid	NR Band n12	15	19.22	Ant 1	0.0	DFT-S-OFDM	QPSK	36	22	0 mm	back	1:1	0.682	19.91	
707.50	141500	Mid	NR Band n12	15	19.20	Ant 1	0.0	DFT-S-OFDM	QPSK	75	0	0 mm	back	1:1	0.662	20.02	
707.50	141500	Mid	NR Band n12	15	19.51	Ant 1	0.0	CP-OFDM	QPSK	1	1	0 mm	back	1:1	0.852	19.24	
707.50	141500	Mid	NR Band n12	15	19.27	Ant 1	0.0	DFT-S-OFDM	QPSK	1	40	0 mm	top	1:1	0.015	36.54	
707.50	141500	Mid	NR Band n12	15	19.22	Ant 1	0.0	DFT-S-OFDM	QPSK	36	22	0 mm	top	1:1	0.013	37.11	
707.50	141500	Mid	NR Band n12	15	19.27	Ant 1	0.0	DFT-S-OFDM	QPSK	1	40	0 mm	bottom	1:1	0.535	21.02	
707.50	141500	Mid	NR Band n12	15	19.22	Ant 1	0.0	DFT-S-OFDM	QPSK	36	22	0 mm	bottom	1:1	0.550	20.85	
707.50	141500	Mid	NR Band n12	15	19.27	Ant 1	0.0	DFT-S-OFDM	QPSK	1	40	0 mm	right	1:1	0.012	37.51	
707.50	141500	Mid	NR Band n12	15	19.22	Ant 1	0.0	DFT-S-OFDM	QPSK	36	22	0 mm	right	1:1	0.012	37.46	
707.50	141500	Mid	NR Band n12	15	19.27	Ant 1	0.0	DFT-S-OFDM	QPSK	1	40	0 mm	left	1:1	0.204	25.20	
707.50	141500	Mid	NR Band n12	15	19.22	Ant 1	0.0	DFT-S-OFDM	QPSK	36	22	0 mm	left	1:1	0.204	25.15	
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 A-56
DSI = 1 P_{Limit} Calculations – Ant 3 NR Band n12

MEASUREMENT RESULTS																	
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	Antenna Config	MPR [dB]	Waveform	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.														(W/kg)	[dBm]	[dBm]
707.50	141500	Mid	NR Band n12	15	18.75	Ant 3	0.0	DFT-S-OFDM	QPSK	1	40	0 mm	back	1:1	0.597	20.02	19.73
707.50	141500	Mid	NR Band n12	15	18.65	Ant 3	0.0	DFT-S-OFDM	QPSK	36	22	0 mm	back	1:1	0.624	19.73	
707.50	141500	Mid	NR Band n12	15	18.89	Ant 3	0.0	CP-OFDM	QPSK	1	1	0 mm	back	1:1	0.552	20.50	
707.50	141500	Mid	NR Band n12	15	18.75	Ant 3	0.0	DFT-S-OFDM	QPSK	1	40	0 mm	top	1:1	0.448	21.27	
707.50	141500	Mid	NR Band n12	15	18.65	Ant 3	0.0	DFT-S-OFDM	QPSK	36	22	0 mm	top	1:1	0.456	21.09	
707.50	141500	Mid	NR Band n12	15	18.75	Ant 3	0.0	DFT-S-OFDM	QPSK	1	40	0 mm	bottom	1:1	0.012	36.99	
707.50	141500	Mid	NR Band n12	15	18.65	Ant 3	0.0	DFT-S-OFDM	QPSK	36	22	0 mm	bottom	1:1	0.011	37.27	
707.50	141500	Mid	NR Band n12	15	18.75	Ant 3	0.0	DFT-S-OFDM	QPSK	1	40	0 mm	right	1:1	0.250	23.80	
707.50	141500	Mid	NR Band n12	15	18.65	Ant 3	0.0	DFT-S-OFDM	QPSK	36	22	0 mm	right	1:1	0.267	23.42	
707.50	141500	Mid	NR Band n12	15	18.75	Ant 3	0.0	DFT-S-OFDM	QPSK	1	40	0 mm	left	1:1	0.026	33.63	
707.50	141500	Mid	NR Band n12	15	18.65	Ant 3	0.0	DFT-S-OFDM	QPSK	36	22	0 mm	left	1:1	0.012	36.89	
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 A-57
DSI = 1 P_{Limit} Calculations – Ant 1 NR Band n5

MEASUREMENT RESULTS																	
FREQUENCY		Mode	Bandwidth [MHz]	Conducted Power [dBm]	Antenna Config	MPR [dB]	Waveform	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plimit	Minimum Plimit	
MHz	Ch.													(W/kg)	[dBm]	[dBm]	
836.50	167300	Mid	NR Band n5 (Cell)	20	18.06	Ant 1	0.0	DFT-S-OFDM	QPSK	1	1	0 mm	back	1:1	0.748	18.35	18.35
836.50	167300	Mid	NR Band n5 (Cell)	20	18.06	Ant 1	0.0	DFT-S-OFDM	QPSK	50	0	0 mm	back	1:1	0.671	18.82	
836.50	167300	Mid	NR Band n5 (Cell)	20	18.00	Ant 1	0.0	DFT-S-OFDM	QPSK	100	0	0 mm	back	1:1	0.738	18.35	
836.50	167300	Mid	NR Band n5 (Cell)	20	18.09	Ant 1	0.0	CP-OFDM	QPSK	1	1	0 mm	back	1:1	0.628	19.14	
836.50	167300	Mid	NR Band n5 (Cell)	20	18.06	Ant 1	0.0	DFT-S-OFDM	QPSK	1	1	0 mm	top	1:1	0.010	37.09	
836.50	167300	Mid	NR Band n5 (Cell)	20	18.06	Ant 1	0.0	DFT-S-OFDM	QPSK	50	0	0 mm	top	1:1	0.009	37.55	
836.50	167300	Mid	NR Band n5 (Cell)	20	18.06	Ant 1	0.0	DFT-S-OFDM	QPSK	1	1	0 mm	bottom	1:1	0.540	19.77	
836.50	167300	Mid	NR Band n5 (Cell)	20	18.06	Ant 1	0.0	DFT-S-OFDM	QPSK	50	0	0 mm	bottom	1:1	0.513	19.99	
836.50	167300	Mid	NR Band n5 (Cell)	20	18.06	Ant 1	0.0	DFT-S-OFDM	QPSK	1	1	0 mm	right	1:1	0.012	36.30	
836.50	167300	Mid	NR Band n5 (Cell)	20	18.06	Ant 1	0.0	DFT-S-OFDM	QPSK	50	0	0 mm	right	1:1	0.013	35.95	
836.50	167300	Mid	NR Band n5 (Cell)	20	18.06	Ant 1	0.0	DFT-S-OFDM	QPSK	1	1	0 mm	left	1:1	0.229	23.49	
836.50	167300	Mid	NR Band n5 (Cell)	20	18.06	Ant 1	0.0	DFT-S-OFDM	QPSK	50	0	0 mm	left	1:1	0.239	23.31	
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 A-58
DSI = 1 P_{Limit} Calculations – Ant 3 NR Band n5

MEASUREMENT RESULTS																	
FREQUENCY		Mode	Bandwidth [MHz]	Conducted Power [dBm]	Antenna Config	MPR [dB]	Waveform	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plimit	Minimum Plimit	
MHz	Ch.													(W/kg)	[dBm]	[dBm]	
836.50	167300	Mid	NR Band n5 (Cell)	20	18.56	Ant 3	0.0	DFT-S-OFDM	QPSK	1	1	0 mm	back	1:1	0.688	19.21	19.02
836.50	167300	Mid	NR Band n5 (Cell)	20	18.50	Ant 3	0.0	DFT-S-OFDM	QPSK	50	0	0 mm	back	1:1	0.676	19.23	
836.50	167300	Mid	NR Band n5 (Cell)	20	18.56	Ant 3	0.0	DFT-S-OFDM	QPSK	1	1	0 mm	top	1:1	0.720	19.02	
836.50	167300	Mid	NR Band n5 (Cell)	20	18.50	Ant 3	0.0	DFT-S-OFDM	QPSK	50	0	0 mm	top	1:1	0.662	19.32	
836.50	167300	Mid	NR Band n5 (Cell)	20	18.45	Ant 3	0.0	DFT-S-OFDM	QPSK	100	0	0 mm	top	1:1	0.664	19.26	
836.50	167300	Mid	NR Band n5 (Cell)	20	18.55	Ant 3	0.0	CP-OFDM	QPSK	1	1	0 mm	top	1:1	0.713	19.05	
836.50	167300	Mid	NR Band n5 (Cell)	20	18.56	Ant 3	0.0	DFT-S-OFDM	QPSK	1	1	0 mm	bottom	1:1	0.015	35.83	
836.50	167300	Mid	NR Band n5 (Cell)	20	18.50	Ant 3	0.0	DFT-S-OFDM	QPSK	50	0	0 mm	bottom	1:1	0.012	36.74	
836.50	167300	Mid	NR Band n5 (Cell)	20	18.56	Ant 3	0.0	DFT-S-OFDM	QPSK	1	1	0 mm	right	1:1	0.255	23.53	
836.50	167300	Mid	NR Band n5 (Cell)	20	18.50	Ant 3	0.0	DFT-S-OFDM	QPSK	50	0	0 mm	right	1:1	0.242	23.69	
836.50	167300	Mid	NR Band n5 (Cell)	20	18.56	Ant 3	0.0	DFT-S-OFDM	QPSK	1	1	0 mm	left	1:1	0.016	35.55	
836.50	167300	Mid	NR Band n5 (Cell)	20	18.50	Ant 3	0.0	DFT-S-OFDM	QPSK	50	0	0 mm	left	1:1	0.017	35.23	
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 A-59
DSI = 1 P_{Limit} Calculations – Ant 1 NR Band n66

MEASUREMENT RESULTS																	
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	Antenna Config	MPR [dB]	Waveform	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.	(W/kg)													[dBm]	[dBm]	
1720.00	344000	Low	NR Band n66 (AWS)	20	14.75	Ant 1	0.0	DFT-S-OFDM	QPSK	1	1	0 mm	back	1:1	0.679	15.46	14.74
1745.00	349000	Mid	NR Band n66 (AWS)	20	14.76	Ant 1	0.0	DFT-S-OFDM	QPSK	1	1	0 mm	back	1:1	0.658	15.61	
1770.00	354000	High	NR Band n66 (AWS)	20	14.70	Ant 1	0.0	DFT-S-OFDM	QPSK	1	1	0 mm	back	1:1	0.669	15.48	
1720.00	344000	Low	NR Band n66 (AWS)	20	14.75	Ant 1	0.0	DFT-S-OFDM	QPSK	50	0	0 mm	back	1:1	0.646	15.68	
1745.00	349000	Mid	NR Band n66 (AWS)	20	14.81	Ant 1	0.0	DFT-S-OFDM	QPSK	50	0	0 mm	back	1:1	0.646	15.74	
1770.00	354000	High	NR Band n66 (AWS)	20	14.70	Ant 1	0.0	DFT-S-OFDM	QPSK	50	0	0 mm	back	1:1	0.651	15.60	
1745.00	349000	Mid	NR Band n66 (AWS)	20	14.68	Ant 1	0.0	DFT-S-OFDM	QPSK	100	0	0 mm	back	1:1	0.640	15.65	
1745.00	349000	Mid	NR Band n66 (AWS)	20	14.76	Ant 1	0.0	DFT-S-OFDM	QPSK	1	1	0 mm	top	1:1	0.026	29.64	
1745.00	349000	Mid	NR Band n66 (AWS)	20	14.81	Ant 1	0.0	DFT-S-OFDM	QPSK	50	0	0 mm	top	1:1	0.025	29.86	
1745.00	349000	Mid	NR Band n66 (AWS)	20	14.76	Ant 1	0.0	DFT-S-OFDM	QPSK	1	1	0 mm	bottom	1:1	0.323	18.70	
1745.00	349000	Mid	NR Band n66 (AWS)	20	14.81	Ant 1	0.0	DFT-S-OFDM	QPSK	50	0	0 mm	bottom	1:1	0.285	19.29	
1745.00	349000	Mid	NR Band n66 (AWS)	20	14.76	Ant 1	0.0	DFT-S-OFDM	QPSK	1	1	0 mm	right	1:1	0.000	43.79	
1745.00	349000	Mid	NR Band n66 (AWS)	20	14.81	Ant 1	0.0	DFT-S-OFDM	QPSK	50	0	0 mm	right	1:1	0.000	43.84	
1720.00	344000	Low	NR Band n66 (AWS)	20	14.75	Ant 1	0.0	DFT-S-OFDM	QPSK	1	1	0 mm	left	1:1	0.801	14.74	
1745.00	349000	Mid	NR Band n66 (AWS)	20	14.76	Ant 1	0.0	DFT-S-OFDM	QPSK	1	1	0 mm	left	1:1	0.783	14.85	
1770.00	354000	High	NR Band n66 (AWS)	20	14.70	Ant 1	0.0	DFT-S-OFDM	QPSK	1	1	0 mm	left	1:1	0.791	14.75	
1720.00	344000	Low	NR Band n66 (AWS)	20	14.75	Ant 1	0.0	DFT-S-OFDM	QPSK	50	0	0 mm	left	1:1	0.784	14.84	
1745.00	349000	Mid	NR Band n66 (AWS)	20	14.81	Ant 1	0.0	DFT-S-OFDM	QPSK	50	0	0 mm	left	1:1	0.811	14.75	
1770.00	354000	High	NR Band n66 (AWS)	20	14.70	Ant 1	0.0	DFT-S-OFDM	QPSK	50	0	0 mm	left	1:1	0.744	15.02	
1745.00	349000	Mid	NR Band n66 (AWS)	20	14.68	Ant 1	0.0	DFT-S-OFDM	QPSK	100	0	0 mm	left	1:1	0.785	14.76	
1745.00	349000	Mid	NR Band n66 (AWS)	20	14.82	Ant 1	0.0	CP-OFDM	QPSK	1	1	0 mm	left	1:1	0.812	14.76	
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 A-60
DSI = 1 P_{Limit} Calculations – Ant 3 NR Band n66

MEASUREMENT RESULTS																	
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	Antenna Config	MPR [dB]	Waveform	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plimit	Minimum Plimit
															(W/kg)	[dBm]	[dBm]
1745.00	349000	Mid	NR Band n66 (AWS)	20	15.12	Ant 3	0.0	DFT-S-OFDM	QPSK	1	1	0 mm	back	1:1	0.481	17.33	16.23
1745.00	349000	Mid	NR Band n66 (AWS)	20	15.05	Ant 3	0.0	DFT-S-OFDM	QPSK	50	56	0 mm	back	1:1	0.500	17.09	
1745.00	349000	Mid	NR Band n66 (AWS)	20	15.12	Ant 3	0.0	DFT-S-OFDM	QPSK	1	1	0 mm	top	1:1	0.254	20.10	
1745.00	349000	Mid	NR Band n66 (AWS)	20	15.05	Ant 3	0.0	DFT-S-OFDM	QPSK	50	56	0 mm	top	1:1	0.273	19.72	
1745.00	349000	Mid	NR Band n66 (AWS)	20	15.12	Ant 3	0.0	DFT-S-OFDM	QPSK	1	1	0 mm	bottom	1:1	0.022	30.73	
1745.00	349000	Mid	NR Band n66 (AWS)	20	15.05	Ant 3	0.0	DFT-S-OFDM	QPSK	50	56	0 mm	bottom	1:1	0.023	30.46	
1745.00	349000	Mid	NR Band n66 (AWS)	20	15.12	Ant 3	0.0	DFT-S-OFDM	QPSK	1	1	0 mm	right	1:1	0.562	16.65	
1720.00	344000	Low	NR Band n66 (AWS)	20	15.02	Ant 3	0.0	DFT-S-OFDM	QPSK	50	0	0 mm	right	1:1	0.605	16.23	
1745.00	349000	Mid	NR Band n66 (AWS)	20	15.05	Ant 3	0.0	DFT-S-OFDM	QPSK	50	56	0 mm	right	1:1	0.566	16.55	
1770.00	354000	High	NR Band n66 (AWS)	20	14.86	Ant 3	0.0	DFT-S-OFDM	QPSK	50	28	0 mm	right	1:1	0.494	16.95	
1745.00	349000	Mid	NR Band n66 (AWS)	20	15.00	Ant 3	0.0	CP-OFDM	QPSK	1	1	0 mm	right	1:1	0.581	16.39	
1745.00	349000	Mid	NR Band n66 (AWS)	20	15.12	Ant 3	0.0	DFT-S-OFDM	QPSK	1	1	0 mm	left	1:1	0.000	44.15	
1745.00	349000	Mid	NR Band n66 (AWS)	20	15.05	Ant 3	0.0	DFT-S-OFDM	QPSK	50	56	0 mm	left	1:1	0.000	44.08	
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 A-61
DSI = 1 P_{Limit} Calculations – Ant 2b NR Band n66

MEASUREMENT RESULTS																	
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	Antenna Config	MPR [dB]	Waveform	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.	(W/kg)													[dBm]	[dBm]	
1720.00	344000	Low	NR Band n66 (AWS)	20	12.44	Ant 2b	0.0	DFT-S-OFDM	QPSK	1	104	0 mm	back	1:1	0.619	13.55	13.38
1745.00	349000	Mid	NR Band n66 (AWS)	20	12.48	Ant 2b	0.0	DFT-S-OFDM	QPSK	1	1	0 mm	back	1:1	0.638	13.46	
1770.00	354000	High	NR Band n66 (AWS)	20	12.40	Ant 2b	0.0	DFT-S-OFDM	QPSK	1	1	0 mm	back	1:1	0.638	13.38	
1720.00	344000	Low	NR Band n66 (AWS)	20	12.44	Ant 2b	0.0	DFT-S-OFDM	QPSK	50	28	0 mm	back	1:1	0.624	13.52	
1745.00	349000	Mid	NR Band n66 (AWS)	20	12.49	Ant 2b	0.0	DFT-S-OFDM	QPSK	50	56	0 mm	back	1:1	0.629	13.53	
1770.00	354000	High	NR Band n66 (AWS)	20	12.36	Ant 2b	0.0	DFT-S-OFDM	QPSK	50	28	0 mm	back	1:1	0.616	13.50	
1720.00	344000	Low	NR Band n66 (AWS)	20	12.40	Ant 2b	0.0	DFT-S-OFDM	QPSK	100	0	0 mm	back	1:1	0.637	13.39	
1745.00	349000	Mid	NR Band n66 (AWS)	20	12.50	Ant 2b	0.0	CP-OFDM	QPSK	1	1	0 mm	back	1:1	0.623	13.59	
1745.00	349000	Mid	NR Band n66 (AWS)	20	12.48	Ant 2b	0.0	DFT-S-OFDM	QPSK	1	1	0 mm	top	1:1	0.000	41.51	
1745.00	349000	Mid	NR Band n66 (AWS)	20	12.49	Ant 2b	0.0	DFT-S-OFDM	QPSK	50	56	0 mm	top	1:1	0.000	41.52	
1745.00	349000	Mid	NR Band n66 (AWS)	20	12.48	Ant 2b	0.0	DFT-S-OFDM	QPSK	1	1	0 mm	bottom	1:1	0.338	16.22	
1745.00	349000	Mid	NR Band n66 (AWS)	20	12.49	Ant 2b	0.0	DFT-S-OFDM	QPSK	50	56	0 mm	bottom	1:1	0.336	16.26	
1745.00	349000	Mid	NR Band n66 (AWS)	20	12.48	Ant 2b	0.0	DFT-S-OFDM	QPSK	1	1	0 mm	right	1:1	0.042	25.28	
1745.00	349000	Mid	NR Band n66 (AWS)	20	12.49	Ant 2b	0.0	DFT-S-OFDM	QPSK	50	56	0 mm	right	1:1	0.037	25.84	
1745.00	349000	Mid	NR Band n66 (AWS)	20	12.48	Ant 2b	0.0	DFT-S-OFDM	QPSK	1	1	0 mm	left	1:1	0.006	33.73	
1745.00	349000	Mid	NR Band n66 (AWS)	20	12.49	Ant 2b	0.0	DFT-S-OFDM	QPSK	50	56	0 mm	left	1:1	0.005	34.53	
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 A-62
DSI = 1 P_{Limit} Calculations – Ant 4b NR Band n66

MEASUREMENT RESULTS																	
FREQUENCY		Mode	Bandwidth [MHz]	Conducted Power [dBm]	Antenna Config	MPR [dB]	Waveform	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plimit	Minimum Plimit	
MHz	Ch.													(W/kg)	[dBm]	[dBm]	
1720.00	344000	Low	NR Band n66 (AWS)	20	12.89	Ant 4b	0.0	DFT-S-OFDM	QPSK	1	1	0 mm	back	1:1	0.767	13.07	12.75
1745.00	349000	Mid	NR Band n66 (AWS)	20	12.96	Ant 4b	0.0	DFT-S-OFDM	QPSK	1	104	0 mm	back	1:1	0.838	12.76	
1770.00	354000	High	NR Band n66 (AWS)	20	12.91	Ant 4b	0.0	DFT-S-OFDM	QPSK	1	1	0 mm	back	1:1	0.822	12.79	
1720.00	344000	Low	NR Band n66 (AWS)	20	12.76	Ant 4b	0.0	DFT-S-OFDM	QPSK	50	28	0 mm	back	1:1	0.741	13.09	
1745.00	349000	Mid	NR Band n66 (AWS)	20	12.81	Ant 4b	0.0	DFT-S-OFDM	QPSK	50	0	0 mm	back	1:1	0.772	12.96	
1770.00	354000	High	NR Band n66 (AWS)	20	12.70	Ant 4b	0.0	DFT-S-OFDM	QPSK	50	28	0 mm	back	1:1	0.781	12.80	
1745.00	349000	Mid	NR Band n66 (AWS)	20	12.76	Ant 4b	0.0	DFT-S-OFDM	QPSK	100	0	0 mm	back	1:1	0.765	12.95	
1745.00	349000	Mid	NR Band n66 (AWS)	20	12.91	Ant 4b	0.0	CP-OFDM	QPSK	1	1	0 mm	back	1:1	0.830	12.75	
1745.00	349000	Mid	NR Band n66 (AWS)	20	12.96	Ant 4b	0.0	DFT-S-OFDM	QPSK	1	104	0 mm	top	1:1	0.641	13.92	
1745.00	349000	Mid	NR Band n66 (AWS)	20	12.81	Ant 4b	0.0	DFT-S-OFDM	QPSK	50	0	0 mm	top	1:1	0.620	13.92	
1745.00	349000	Mid	NR Band n66 (AWS)	20	12.96	Ant 4b	0.0	DFT-S-OFDM	QPSK	1	104	0 mm	bottom	1:1	0.000	41.99	
1745.00	349000	Mid	NR Band n66 (AWS)	20	12.81	Ant 4b	0.0	DFT-S-OFDM	QPSK	50	0	0 mm	bottom	1:1	0.000	41.84	
1745.00	349000	Mid	NR Band n66 (AWS)	20	12.96	Ant 4b	0.0	DFT-S-OFDM	QPSK	1	104	0 mm	right	1:1	0.000	41.99	
1745.00	349000	Mid	NR Band n66 (AWS)	20	12.81	Ant 4b	0.0	DFT-S-OFDM	QPSK	50	0	0 mm	right	1:1	0.000	41.84	
1745.00	349000	Mid	NR Band n66 (AWS)	20	12.96	Ant 4b	0.0	DFT-S-OFDM	QPSK	1	104	0 mm	left	1:1	0.023	28.37	
1745.00	349000	Mid	NR Band n66 (AWS)	20	12.81	Ant 4b	0.0	DFT-S-OFDM	QPSK	50	0	0 mm	left	1:1	0.024	28.04	
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 A-63
DSI = 1 P_{Limit} Calculations – Ant 1 NR Band n25

MEASUREMENT RESULTS																	
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	Antenna Config	MPR [dB]	Waveform	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.	(W/kg)													[dBm]	[dBm]	
1860.00	372000	Low	NR Band n25 (PCS)	20	15.78	Ant 1	0.0	DFT-S-OFDM	QPSK	1	1	0 mm	back	1:1	0.513	17.71	16.59
1882.50	376500	Mid	NR Band n25 (PCS)	20	15.67	Ant 1	0.0	DFT-S-OFDM	QPSK	1	1	0 mm	back	1:1	0.515	17.58	
1905.00	381000	High	NR Band n25 (PCS)	20	15.50	Ant 1	0.0	DFT-S-OFDM	QPSK	1	53	0 mm	back	1:1	0.623	16.59	
1860.00	372000	Low	NR Band n25 (PCS)	20	15.67	Ant 1	0.0	DFT-S-OFDM	QPSK	50	0	0 mm	back	1:1	0.553	17.27	
1882.50	376500	Mid	NR Band n25 (PCS)	20	15.59	Ant 1	0.0	DFT-S-OFDM	QPSK	50	0	0 mm	back	1:1	0.509	17.55	
1905.00	381000	High	NR Band n25 (PCS)	20	15.41	Ant 1	0.0	DFT-S-OFDM	QPSK	50	0	0 mm	back	1:1	0.485	17.58	
1860.00	372000	Low	NR Band n25 (PCS)	20	15.64	Ant 1	0.0	DFT-S-OFDM	QPSK	100	0	0 mm	back	1:1	0.515	17.55	
1905.00	381000	High	NR Band n25 (PCS)	20	15.50	Ant 1	0.0	CP-OFDM	QPSK	1	1	0 mm	back	1:1	0.490	17.63	
1860.00	372000	Low	NR Band n25 (PCS)	20	15.78	Ant 1	0.0	DFT-S-OFDM	QPSK	1	1	0 mm	top	1:1	0.021	31.59	
1860.00	372000	Low	NR Band n25 (PCS)	20	15.67	Ant 1	0.0	DFT-S-OFDM	QPSK	50	0	0 mm	top	1:1	0.022	31.28	
1860.00	372000	Low	NR Band n25 (PCS)	20	15.78	Ant 1	0.0	DFT-S-OFDM	QPSK	1	1	0 mm	bottom	1:1	0.344	19.45	
1860.00	372000	Low	NR Band n25 (PCS)	20	15.67	Ant 1	0.0	DFT-S-OFDM	QPSK	50	0	0 mm	bottom	1:1	0.313	19.75	
1860.00	372000	Low	NR Band n25 (PCS)	20	15.78	Ant 1	0.0	DFT-S-OFDM	QPSK	1	1	0 mm	right	1:1	0.003	40.04	
1860.00	372000	Low	NR Band n25 (PCS)	20	15.67	Ant 1	0.0	DFT-S-OFDM	QPSK	50	0	0 mm	right	1:1	0.002	41.69	
1860.00	372000	Low	NR Band n25 (PCS)	20	15.78	Ant 1	0.0	DFT-S-OFDM	QPSK	1	1	0 mm	left	1:1	0.537	17.51	
1860.00	372000	Low	NR Band n25 (PCS)	20	15.67	Ant 1	0.0	DFT-S-OFDM	QPSK	50	0	0 mm	left	1:1	0.507	17.65	
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 A-64
DSI = 1 P_{Limit} Calculations – Ant 3 NR Band n25

MEASUREMENT RESULTS																	
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	Antenna Config	MPR [dB]	Waveform	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.	(W/kg)													[dBm]	[dBm]	
1860.00	372000	Low	NR Band n25 (PCS)	20	14.92	Ant 3	0.0	DFT-S-OFDM	QPSK	1	53	0 mm	back	1:1	0.442	17.50	16.63
1860.00	372000	Low	NR Band n25 (PCS)	20	15.05	Ant 3	0.0	DFT-S-OFDM	QPSK	50	56	0 mm	back	1:1	0.357	18.55	
1860.00	372000	Low	NR Band n25 (PCS)	20	14.92	Ant 3	0.0	DFT-S-OFDM	QPSK	1	53	0 mm	top	1:1	0.269	19.65	
1860.00	372000	Low	NR Band n25 (PCS)	20	15.05	Ant 3	0.0	DFT-S-OFDM	QPSK	50	56	0 mm	top	1:1	0.260	19.93	
1860.00	372000	Low	NR Band n25 (PCS)	20	14.92	Ant 3	0.0	DFT-S-OFDM	QPSK	1	53	0 mm	bottom	1:1	0.022	30.53	
1860.00	372000	Low	NR Band n25 (PCS)	20	15.05	Ant 3	0.0	DFT-S-OFDM	QPSK	50	56	0 mm	bottom	1:1	0.014	32.62	
1860.00	372000	Low	NR Band n25 (PCS)	20	14.92	Ant 3	0.0	DFT-S-OFDM	QPSK	1	53	0 mm	right	1:1	0.489	17.06	
1882.50	376500	Mid	NR Band n25 (PCS)	20	14.89	Ant 3	0.0	DFT-S-OFDM	QPSK	1	1	0 mm	right	1:1	0.492	17.00	
1905.00	381000	High	NR Band n25 (PCS)	20	14.85	Ant 3	0.0	DFT-S-OFDM	QPSK	1	1	0 mm	right	1:1	0.509	16.81	
1860.00	372000	Low	NR Band n25 (PCS)	20	15.05	Ant 3	0.0	DFT-S-OFDM	QPSK	50	56	0 mm	right	1:1	0.481	17.26	
1882.50	376500	Mid	NR Band n25 (PCS)	20	14.95	Ant 3	0.0	DFT-S-OFDM	QPSK	50	0	0 mm	right	1:1	0.499	17.00	
1905.00	381000	High	NR Band n25 (PCS)	20	14.84	Ant 3	0.0	DFT-S-OFDM	QPSK	50	0	0 mm	right	1:1	0.530	16.63	
1905.00	381000	High	NR Band n25 (PCS)	20	15.03	Ant 3	0.0	CP-OFDM	QPSK	1	1	0 mm	right	1:1	0.502	17.05	
1860.00	372000	Low	NR Band n25 (PCS)	20	14.92	Ant 3	0.0	DFT-S-OFDM	QPSK	1	53	0 mm	left	1:1	0.003	39.18	
1860.00	372000	Low	NR Band n25 (PCS)	20	15.05	Ant 3	0.0	DFT-S-OFDM	QPSK	50	56	0 mm	left	1:1	0.003	39.31	
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 A-65
DSI = 1 P_{Limit} Calculations – Ant 2b NR Band n25

MEASUREMENT RESULTS																	
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	Antenna Config	MPR [dB]	Waveform	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.	(W/kg)													[dBm]	[dBm]	
1860.00	372000	Low	NR Band n25 (PCS)	20	11.91	Ant 2b	0.0	DFT-S-OFDM	QPSK	1	1	0 mm	back	1:1	0.446	14.45	14.32
1882.50	376500	Mid	NR Band n25 (PCS)	20	11.85	Ant 2b	0.0	DFT-S-OFDM	QPSK	1	1	0 mm	back	1:1	0.453	14.32	
1905.00	381000	High	NR Band n25 (PCS)	20	11.86	Ant 2b	0.0	DFT-S-OFDM	QPSK	1	1	0 mm	back	1:1	0.448	14.38	
1860.00	372000	Low	NR Band n25 (PCS)	20	11.92	Ant 2b	0.0	DFT-S-OFDM	QPSK	50	0	0 mm	back	1:1	0.442	14.50	
1882.50	376500	Mid	NR Band n25 (PCS)	20	12.05	Ant 2b	0.0	CP-OFDM	QPSK	1	1	0 mm	back	1:1	0.450	14.55	
1860.00	372000	Low	NR Band n25 (PCS)	20	11.91	Ant 2b	0.0	DFT-S-OFDM	QPSK	1	1	0 mm	top	1:1	0.003	36.17	
1860.00	372000	Low	NR Band n25 (PCS)	20	11.92	Ant 2b	0.0	DFT-S-OFDM	QPSK	50	0	0 mm	top	1:1	0.002	37.94	
1860.00	372000	Low	NR Band n25 (PCS)	20	11.91	Ant 2b	0.0	DFT-S-OFDM	QPSK	1	1	0 mm	bottom	1:1	0.361	15.37	
1860.00	372000	Low	NR Band n25 (PCS)	20	11.92	Ant 2b	0.0	DFT-S-OFDM	QPSK	50	0	0 mm	bottom	1:1	0.334	15.71	
1860.00	372000	Low	NR Band n25 (PCS)	20	11.91	Ant 2b	0.0	DFT-S-OFDM	QPSK	1	1	0 mm	right	1:1	0.041	24.81	
1860.00	372000	Low	NR Band n25 (PCS)	20	11.92	Ant 2b	0.0	DFT-S-OFDM	QPSK	50	0	0 mm	right	1:1	0.037	25.27	
1860.00	372000	Low	NR Band n25 (PCS)	20	11.91	Ant 2b	0.0	DFT-S-OFDM	QPSK	1	1	0 mm	left	1:1	0.012	30.15	
1860.00	372000	Low	NR Band n25 (PCS)	20	11.92	Ant 2b	0.0	DFT-S-OFDM	QPSK	50	0	0 mm	left	1:1	0.013	29.81	
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 A-66
DSI = 1 P_{Limit} Calculations – Ant 4b NR Band n25

MEASUREMENT RESULTS																	
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	Antenna Config	MPR [dB]	Waveform	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plimit	Minimum Plimit
															(W/kg)	[dBm]	[dBm]
1860.00	372000	Low	NR Band n25 (PCS)	20	11.20	Ant 4b	0.0	DFT-S-OFDM	QPSK	1	1	0 mm	back	1:1	0.592	12.51	12.19
1882.50	376500	Mid	NR Band n25 (PCS)	20	11.06	Ant 4b	0.0	DFT-S-OFDM	QPSK	1	1	0 mm	back	1:1	0.528	12.86	
1905.00	381000	High	NR Band n25 (PCS)	20	11.19	Ant 4b	0.0	DFT-S-OFDM	QPSK	1	1	0 mm	back	1:1	0.636	12.19	
1860.00	372000	Low	NR Band n25 (PCS)	20	11.18	Ant 4b	0.0	DFT-S-OFDM	QPSK	50	0	0 mm	back	1:1	0.559	12.74	
1905.00	381000	High	NR Band n25 (PCS)	20	11.05	Ant 4b	0.0	CP-OFDM	QPSK	1	1	0 mm	back	1:1	0.553	12.65	
1860.00	372000	Low	NR Band n25 (PCS)	20	11.20	Ant 4b	0.0	DFT-S-OFDM	QPSK	1	1	0 mm	top	1:1	0.356	14.72	
1860.00	372000	Low	NR Band n25 (PCS)	20	11.18	Ant 4b	0.0	DFT-S-OFDM	QPSK	50	0	0 mm	top	1:1	0.332	15.00	
1860.00	372000	Low	NR Band n25 (PCS)	20	11.20	Ant 4b	0.0	DFT-S-OFDM	QPSK	1	1	0 mm	bottom	1:1	0.002	37.22	
1860.00	372000	Low	NR Band n25 (PCS)	20	11.18	Ant 4b	0.0	DFT-S-OFDM	QPSK	50	0	0 mm	bottom	1:1	0.002	37.20	
1860.00	372000	Low	NR Band n25 (PCS)	20	11.20	Ant 4b	0.0	DFT-S-OFDM	QPSK	1	1	0 mm	right	1:1	0.003	35.46	
1860.00	372000	Low	NR Band n25 (PCS)	20	11.18	Ant 4b	0.0	DFT-S-OFDM	QPSK	50	0	0 mm	right	1:1	0.003	35.44	
1860.00	372000	Low	NR Band n25 (PCS)	20	11.20	Ant 4b	0.0	DFT-S-OFDM	QPSK	1	1	0 mm	left	1:1	0.014	28.77	
1860.00	372000	Low	NR Band n25 (PCS)	20	11.18	Ant 4b	0.0	DFT-S-OFDM	QPSK	50	0	0 mm	left	1:1	0.015	28.45	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT							Body 1.6 W/kg (mW/g) averaged over 1 gram										
Spatial Peak Uncontrolled Exposure/General Population																	

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Table A-67
DSI = 1 P_{Limit} Calculations – Ant 1 NR Band n41

MEASUREMENT RESULTS																	
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	Antenna Config	MPR [dB]	Waveform	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.	(W/kg)													[dBm]	[dBm]	
2592.99	518598	Mid	NR Band n41	100	10.64	Ant 1	0.0	DFT-S-OFDM	QPSK	1	1	0 mm	back	1:1	0.759	10.87	10.58
2592.99	518598	Mid	NR Band n41	100	10.62	Ant 1	0.0	DFT-S-OFDM	QPSK	135	0	0 mm	back	1:1	0.776	10.75	
2592.99	518598	Mid	NR Band n41	100	10.61	Ant 1	0.0	DFT-S-OFDM	QPSK	270	0	0 mm	back	1:1	0.805	10.58	
2592.99	518598	Mid	NR Band n41	100	10.54	Ant 1	0.0	CP-OFDM	QPSK	1	1	0 mm	back	1:1	0.758	10.77	
2592.99	518598	Mid	NR Band n41	100	10.64	Ant 1	0.0	DFT-S-OFDM	QPSK	1	1	0 mm	top	1:1	0.002	36.66	
2592.99	518598	Mid	NR Band n41	100	10.62	Ant 1	0.0	DFT-S-OFDM	QPSK	135	0	0 mm	top	1:1	0.001	39.65	
2592.99	518598	Mid	NR Band n41	100	10.64	Ant 1	0.0	DFT-S-OFDM	QPSK	1	1	0 mm	bottom	1:1	0.350	14.23	
2592.99	518598	Mid	NR Band n41	100	10.62	Ant 1	0.0	DFT-S-OFDM	QPSK	135	0	0 mm	bottom	1:1	0.344	14.29	
2592.99	518598	Mid	NR Band n41	100	10.64	Ant 1	0.0	DFT-S-OFDM	QPSK	1	1	0 mm	right	1:1	0.002	36.66	
2592.99	518598	Mid	NR Band n41	100	10.62	Ant 1	0.0	DFT-S-OFDM	QPSK	135	0	0 mm	right	1:1	0.003	34.88	
2592.99	518598	Mid	NR Band n41	100	10.64	Ant 1	0.0	DFT-S-OFDM	QPSK	1	1	0 mm	left	1:1	0.188	16.93	
2592.99	518598	Mid	NR Band n41	100	10.62	Ant 1	0.0	DFT-S-OFDM	QPSK	135	0	0 mm	left	1:1	0.187	16.93	
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 A-68
DSI = 1 P_{Limit} Calculations – Ant 3 NR Band n41

MEASUREMENT RESULTS																	
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	Antenna Config	MPR [dB]	Waveform	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.	(W/kg)													[dBm]	[dBm]	
2592.99	518598	Mid	NR Band n41	100	11.34	Ant 3	0.0	DFT-S-OFDM	QPSK	1	1	0 mm	back	1:1	0.430	14.04	13.32
2592.99	518598	Mid	NR Band n41	100	11.29	Ant 3	0.0	DFT-S-OFDM	QPSK	135	69	0 mm	back	1:1	0.498	13.35	
2592.99	518598	Mid	NR Band n41	100	11.28	Ant 3	0.0	DFT-S-OFDM	QPSK	270	0	0 mm	back	1:1	0.500	13.32	
2592.99	518598	Mid	NR Band n41	100	11.34	Ant 3	0.0	CP-OFDM	QPSK	1	1	0 mm	back	1:1	0.377	14.61	
2592.99	518598	Mid	NR Band n41	100	11.34	Ant 3	0.0	DFT-S-OFDM	QPSK	1	1	0 mm	top	1:1	0.367	14.72	
2592.99	518598	Mid	NR Band n41	100	11.29	Ant 3	0.0	DFT-S-OFDM	QPSK	135	69	0 mm	top	1:1	0.372	14.62	
2592.99	518598	Mid	NR Band n41	100	11.34	Ant 3	0.0	DFT-S-OFDM	QPSK	1	1	0 mm	bottom	1:1	0.001	40.37	
2592.99	518598	Mid	NR Band n41	100	11.29	Ant 3	0.0	DFT-S-OFDM	QPSK	135	69	0 mm	bottom	1:1	0.000	40.32	
2592.99	518598	Mid	NR Band n41	100	11.34	Ant 3	0.0	DFT-S-OFDM	QPSK	1	1	0 mm	right	1:1	0.196	17.45	
2592.99	518598	Mid	NR Band n41	100	11.29	Ant 3	0.0	DFT-S-OFDM	QPSK	135	69	0 mm	right	1:1	0.194	17.44	
2592.99	518598	Mid	NR Band n41	100	11.34	Ant 3	0.0	DFT-S-OFDM	QPSK	1	1	0 mm	left	1:1	0.005	33.38	
2592.99	518598	Mid	NR Band n41	100	11.29	Ant 3	0.0	DFT-S-OFDM	QPSK	135	69	0 mm	left	1:1	0.006	32.54	
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 A-69
DSI = 1 P_{Limit} Calculations – Ant 2b NR Band n41

MEASUREMENT RESULTS																	
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	Antenna Config	MPR [dB]	Waveform	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.	(W/kg)													[dBm]	[dBm]	
2592.99	518598	Mid	NR Band n41	100	13.07	Ant 2b	0.0	DFT-S-OFDM	QPSK	1	1	0 mm	back	1:1	0.716	13.55	13.32
2592.99	518598	Mid	NR Band n41	100	13.09	Ant 2b	0.0	DFT-S-OFDM	QPSK	135	0	0 mm	back	1:1	0.724	13.52	
2592.99	518598	Mid	NR Band n41	100	13.03	Ant 2b	0.0	DFT-S-OFDM	QPSK	270	0	0 mm	back	1:1	0.748	13.32	
2592.99	518598	Mid	NR Band n41	100	13.08	Ant 2b	0.0	CP-OFDM	QPSK	1	1	0 mm	back	1:1	0.697	13.68	
2592.99	518598	Mid	NR Band n41	100	13.07	Ant 2b	0.0	DFT-S-OFDM	QPSK	1	1	0 mm	top	1:1	0.000	42.10	
2592.99	518598	Mid	NR Band n41	100	13.09	Ant 2b	0.0	DFT-S-OFDM	QPSK	135	0	0 mm	top	1:1	0.002	39.11	
2592.99	518598	Mid	NR Band n41	100	13.07	Ant 2b	0.0	DFT-S-OFDM	QPSK	1	1	0 mm	bottom	1:1	0.532	14.84	
2592.99	518598	Mid	NR Band n41	100	13.09	Ant 2b	0.0	DFT-S-OFDM	QPSK	135	0	0 mm	bottom	1:1	0.518	14.98	
2592.99	518598	Mid	NR Band n41	100	13.03	Ant 2b	0.0	DFT-S-OFDM	QPSK	270	0	0 mm	bottom	1:1	0.451	15.52	
2592.99	518598	Mid	NR Band n41	100	13.07	Ant 2b	0.0	DFT-S-OFDM	QPSK	1	1	0 mm	right	1:1	0.026	27.95	
2592.99	518598	Mid	NR Band n41	100	13.09	Ant 2b	0.0	DFT-S-OFDM	QPSK	135	0	0 mm	right	1:1	0.026	27.97	
2592.99	518598	Mid	NR Band n41	100	13.07	Ant 2b	0.0	DFT-S-OFDM	QPSK	1	1	0 mm	left	1:1	0.023	28.48	
2592.99	518598	Mid	NR Band n41	100	13.09	Ant 2b	0.0	DFT-S-OFDM	QPSK	135	0	0 mm	left	1:1	0.020	29.11	
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 A-70
DSI = 1 P_{Limit} Calculations – Ant 4b NR Band n41

MEASUREMENT RESULTS																	
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	Antenna Config	MPR [dB]	Waveform	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.	(W/kg)													[dBm]	[dBm]	
2592.99	518598	Mid	NR Band n41	100	12.01	Ant 4b	0.0	DFT-S-OFDM	QPSK	1	1	0 mm	back	1:1	0.932	11.35	11.35
2592.99	518598	Mid	NR Band n41	100	11.87	Ant 4b	0.0	DFT-S-OFDM	QPSK	135	138	0 mm	back	1:1	0.854	11.59	
2592.99	518598	Mid	NR Band n41	100	11.86	Ant 4b	0.0	DFT-S-OFDM	QPSK	270	0	0 mm	back	1:1	0.878	11.46	
2592.99	518598	Mid	NR Band n41	100	12.02	Ant 4b	0.0	CP-OFDM	QPSK	1	1	0 mm	back	1:1	0.876	11.63	
2592.99	518598	Mid	NR Band n41	100	12.01	Ant 4b	0.0	DFT-S-OFDM	QPSK	1	1	0 mm	top	1:1	0.845	11.77	
2592.99	518598	Mid	NR Band n41	100	11.87	Ant 4b	0.0	DFT-S-OFDM	QPSK	135	138	0 mm	top	1:1	0.728	12.28	
2592.99	518598	Mid	NR Band n41	100	11.86	Ant 4b	0.0	DFT-S-OFDM	QPSK	270	0	0 mm	top	1:1	0.755	12.11	
2592.99	518598	Mid	NR Band n41	100	12.01	Ant 4b	0.0	DFT-S-OFDM	QPSK	1	1	0 mm	bottom	1:1	0.003	36.27	
2592.99	518598	Mid	NR Band n41	100	11.87	Ant 4b	0.0	DFT-S-OFDM	QPSK	135	138	0 mm	bottom	1:1	0.000	40.90	
2592.99	518598	Mid	NR Band n41	100	12.01	Ant 4b	0.0	DFT-S-OFDM	QPSK	1	1	0 mm	right	1:1	0.016	29.00	
2592.99	518598	Mid	NR Band n41	100	11.87	Ant 4b	0.0	DFT-S-OFDM	QPSK	135	138	0 mm	right	1:1	0.014	29.44	
2592.99	518598	Mid	NR Band n41	100	12.01	Ant 4b	0.0	DFT-S-OFDM	QPSK	1	1	0 mm	left	1:1	0.036	25.48	
2592.99	518598	Mid	NR Band n41	100	11.87	Ant 4b	0.0	DFT-S-OFDM	QPSK	135	138	0 mm	left	1:1	0.036	25.34	
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 A-71
DSI = 1 P_{Limit} Calculations – Ant 1 NR Band n77

MEASUREMENT RESULTS																	
FREQUENCY		Mode	Bandwidth [MHz]	Conducted Power [dBm]	Antenna Config	MPR [dB]	Waveform	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plimit	Minimum Plimit	
MHz	Ch.													(W/kg)	[dBm]	[dBm]	
3750.00	650000	Low	NR Band n77	100	11.95	Ant 1	0.0	DFT-S-OFDM	QPSK	1	137	0 mm	back	1:1	0.751	12.22	11.55
3930.00	662000	High	NR Band n77	100	11.60	Ant 1	0.0	DFT-S-OFDM	QPSK	1	1	0 mm	back	1:1	0.772	11.75	
3750.00	650000	Low	NR Band n77	100	11.60	Ant 1	0.0	DFT-S-OFDM	QPSK	135	69	0 mm	back	1:1	0.743	11.92	
3930.00	662000	High	NR Band n77	100	11.52	Ant 1	0.0	DFT-S-OFDM	QPSK	135	0	0 mm	back	1:1	0.795	11.55	
3750.00	650000	Low	NR Band n77	100	11.47	Ant 1	0.0	DFT-S-OFDM	QPSK	270	0	0 mm	back	1:1	0.766	11.66	
3750.00	650000	Low	NR Band n77	100	11.37	Ant 1	0.0	CP-OFDM	QPSK	1	1	0 mm	back	1:1	0.695	11.98	
3750.00	650000	Low	NR Band n77	100	11.95	Ant 1	0.0	DFT-S-OFDM	QPSK	1	137	0 mm	top	1:1	0.000	40.98	
3750.00	650000	Low	NR Band n77	100	11.60	Ant 1	0.0	DFT-S-OFDM	QPSK	135	69	0 mm	top	1:1	0.000	40.63	
3750.00	650000	Low	NR Band n77	100	11.95	Ant 1	0.0	DFT-S-OFDM	QPSK	1	137	0 mm	bottom	1:1	0.586	13.30	
3930.00	662000	High	NR Band n77	100	11.60	Ant 1	0.0	DFT-S-OFDM	QPSK	1	1	0 mm	bottom	1:1	0.471	13.90	
3750.00	650000	Low	NR Band n77	100	11.60	Ant 1	0.0	DFT-S-OFDM	QPSK	135	69	0 mm	bottom	1:1	0.573	13.05	
3930.00	662000	High	NR Band n77	100	11.52	Ant 1	0.0	DFT-S-OFDM	QPSK	135	0	0 mm	bottom	1:1	0.458	13.94	
3750.00	650000	Low	NR Band n77	100	11.47	Ant 1	0.0	DFT-S-OFDM	QPSK	270	0	0 mm	bottom	1:1	0.567	12.97	
3750.00	650000	Low	NR Band n77	100	11.95	Ant 1	0.0	DFT-S-OFDM	QPSK	1	137	0 mm	right	1:1	0.026	26.83	
3750.00	650000	Low	NR Band n77	100	11.60	Ant 1	0.0	DFT-S-OFDM	QPSK	135	69	0 mm	right	1:1	0.025	26.65	
3750.00	650000	Low	NR Band n77	100	11.95	Ant 1	0.0	DFT-S-OFDM	QPSK	1	137	0 mm	left	1:1	0.671	12.71	
3930.00	662000	High	NR Band n77	100	11.60	Ant 1	0.0	DFT-S-OFDM	QPSK	1	1	0 mm	left	1:1	0.716	12.08	
3750.00	650000	Low	NR Band n77	100	11.60	Ant 1	0.0	DFT-S-OFDM	QPSK	135	69	0 mm	left	1:1	0.677	12.32	
3930.00	662000	High	NR Band n77	100	11.52	Ant 1	0.0	DFT-S-OFDM	QPSK	135	0	0 mm	left	1:1	0.737	11.88	
3750.00	650000	Low	NR Band n77	100	11.47	Ant 1	0.0	DFT-S-OFDM	QPSK	270	0	0 mm	left	1:1	0.668	12.25	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT							Body 1.6 W/kg (mW/g) averaged over 1 gram										
Spatial Peak																	
Uncontrolled Exposure/General Population																	

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Table A-72
DSI = 1 P_{Limit} Calculations – Ant 3 NR Band n77

MEASUREMENT RESULTS																	
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	Antenna Config	MPR [dB]	Waveform	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.	(W/kg)													[dBm]	[dBm]	
3750.00	650000	Low	NR Band n77	100	10.55	Ant 3	0.0	DFT-S-OFDM	QPSK	1	271	0 mm	back	1:1	0.699	11.14	10.41
3930.00	662000	High	NR Band n77	100	10.17	Ant 3	0.0	DFT-S-OFDM	QPSK	1	1	0 mm	back	1:1	0.620	11.28	
3750.00	650000	Low	NR Band n77	100	10.59	Ant 3	0.0	DFT-S-OFDM	QPSK	135	138	0 mm	back	1:1	0.687	11.25	
3930.00	662000	High	NR Band n77	100	10.15	Ant 3	0.0	DFT-S-OFDM	QPSK	135	0	0 mm	back	1:1	0.602	11.38	
3930.00	662000	High	NR Band n77	100	10.09	Ant 3	0.0	DFT-S-OFDM	QPSK	270	0	0 mm	back	1:1	0.743	10.41	
3930.00	662000	High	NR Band n77	100	10.20	Ant 3	0.0	CP-OFDM	QPSK	1	1	0 mm	back	1:1	0.636	11.20	
3750.00	650000	Low	NR Band n77	100	10.55	Ant 3	0.0	DFT-S-OFDM	QPSK	1	271	0 mm	top	1:1	0.274	15.20	
3750.00	650000	Low	NR Band n77	100	10.59	Ant 3	0.0	DFT-S-OFDM	QPSK	135	138	0 mm	top	1:1	0.290	15.00	
3750.00	650000	Low	NR Band n77	100	10.55	Ant 3	0.0	DFT-S-OFDM	QPSK	1	271	0 mm	bottom	1:1	0.000	39.58	
3750.00	650000	Low	NR Band n77	100	10.59	Ant 3	0.0	DFT-S-OFDM	QPSK	135	138	0 mm	bottom	1:1	0.000	39.62	
3750.00	650000	Low	NR Band n77	100	10.55	Ant 3	0.0	DFT-S-OFDM	QPSK	1	271	0 mm	right	1:1	0.378	13.81	
3930.00	662000	High	NR Band n77	100	10.17	Ant 3	0.0	DFT-S-OFDM	QPSK	1	1	0 mm	right	1:1	0.366	13.57	
3750.00	650000	Low	NR Band n77	100	10.59	Ant 3	0.0	DFT-S-OFDM	QPSK	135	138	0 mm	right	1:1	0.361	14.05	
3930.00	662000	High	NR Band n77	100	10.15	Ant 3	0.0	DFT-S-OFDM	QPSK	135	0	0 mm	right	1:1	0.354	13.69	
3930.00	662000	High	NR Band n77	100	10.09	Ant 3	0.0	DFT-S-OFDM	QPSK	270	0	0 mm	right	1:1	0.349	13.69	
3750.00	650000	Low	NR Band n77	100	10.55	Ant 3	0.0	DFT-S-OFDM	QPSK	1	271	0 mm	left	1:1	0.004	33.56	
3750.00	650000	Low	NR Band n77	100	10.59	Ant 3	0.0	DFT-S-OFDM	QPSK	135	138	0 mm	left	1:1	0.007	31.17	
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 A-73
DSI = 1 P_{Limit} Calculations – Ant 2a NR Band n77

MEASUREMENT RESULTS																	
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	Antenna Config	MPR [dB]	Waveform	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.														(W/kg)	[dBm]	[dBm]
3750.00	650000	Low	NR Band n77	100	10.12	Ant 2a	0.0	DFT-S-OFDM	QPSK	1	271	0 mm	back	1:1	0.320	14.10	11.83
3750.00	650000	Low	NR Band n77	100	10.03	Ant 2a	0.0	DFT-S-OFDM	QPSK	135	138	0 mm	back	1:1	0.477	12.28	
3930.00	662000	High	NR Band n77	100	9.95	Ant 2a	0.0	DFT-S-OFDM	QPSK	135	69	0 mm	back	1:1	0.486	12.11	
3930.00	662000	High	NR Band n77	100	9.94	Ant 2a	0.0	DFT-S-OFDM	QPSK	270	0	0 mm	back	1:1	0.397	12.98	
3750.00	650000	Low	NR Band n77	100	10.12	Ant 2a	0.0	DFT-S-OFDM	QPSK	1	271	0 mm	top	1:1	0.002	36.14	
3750.00	650000	Low	NR Band n77	100	10.03	Ant 2a	0.0	DFT-S-OFDM	QPSK	135	138	0 mm	top	1:1	0.003	34.29	
3750.00	650000	Low	NR Band n77	100	10.12	Ant 2a	0.0	DFT-S-OFDM	QPSK	1	271	0 mm	bottom	1:1	0.134	17.88	
3750.00	650000	Low	NR Band n77	100	10.03	Ant 2a	0.0	DFT-S-OFDM	QPSK	135	138	0 mm	bottom	1:1	0.121	18.23	
3750.00	650000	Low	NR Band n77	100	10.12	Ant 2a	0.0	DFT-S-OFDM	QPSK	1	271	0 mm	right	1:1	0.505	12.12	
3930.00	662000	High	NR Band n77	100	10.09	Ant 2a	0.0	DFT-S-OFDM	QPSK	1	137	0 mm	right	1:1	0.517	11.99	
3750.00	650000	Low	NR Band n77	100	10.03	Ant 2a	0.0	DFT-S-OFDM	QPSK	135	138	0 mm	right	1:1	0.462	12.41	
3930.00	662000	High	NR Band n77	100	9.95	Ant 2a	0.0	DFT-S-OFDM	QPSK	135	69	0 mm	right	1:1	0.519	11.83	
3930.00	662000	High	NR Band n77	100	9.94	Ant 2a	0.0	DFT-S-OFDM	QPSK	270	0	0 mm	right	1:1	0.485	12.11	
3930.00	662000	High	NR Band n77	100	9.59	Ant 2a	0.0	CP-OFDM	QPSK	1	1	0 mm	right	1:1	0.461	11.98	
3750.00	650000	Low	NR Band n77	100	10.12	Ant 2a	0.0	DFT-S-OFDM	QPSK	1	271	0 mm	left	1:1	0.000	39.15	
3750.00	650000	Low	NR Band n77	100	10.03	Ant 2a	0.0	DFT-S-OFDM	QPSK	135	138	0 mm	left	1:1	0.000	39.06	
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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06/01/2019

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Table A-74
DSI = 1 P_{Limit} Calculations – Ant 4a NR Band n77

MEASUREMENT RESULTS																	
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	Antenna Config	MPR [dB]	Waveform	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.														(W/kg)	[dBm]	[dBm]
3750.00	650000	Low	NR Band n77	100	11.13	Ant 4a	0.0	DFT-S-OFDM	QPSK	1	137	0 mm	back	1:1	0.865	10.79	10.79
3930.00	662000	High	NR Band n77	100	11.08	Ant 4a	0.0	DFT-S-OFDM	QPSK	1	137	0 mm	back	1:1	0.533	12.84	
3750.00	650000	Low	NR Band n77	100	10.97	Ant 4a	0.0	DFT-S-OFDM	QPSK	135	138	0 mm	back	1:1	0.818	10.87	
3930.00	662000	High	NR Band n77	100	11.08	Ant 4a	0.0	DFT-S-OFDM	QPSK	135	138	0 mm	back	1:1	0.511	13.03	
3930.00	662000	High	NR Band n77	100	10.95	Ant 4a	0.0	DFT-S-OFDM	QPSK	270	0	0 mm	back	1:1	0.536	12.69	
3930.00	662000	High	NR Band n77	100	10.60	Ant 4a	0.0	CP-OFDM	QPSK	1	1	0 mm	back	1:1	0.589	11.93	
3750.00	650000	Low	NR Band n77	100	11.13	Ant 4a	0.0	DFT-S-OFDM	QPSK	1	137	0 mm	top	1:1	0.256	16.08	
3930.00	662000	High	NR Band n77	100	11.08	Ant 4a	0.0	DFT-S-OFDM	QPSK	135	138	0 mm	top	1:1	0.133	18.87	
3750.00	650000	Low	NR Band n77	100	11.13	Ant 4a	0.0	DFT-S-OFDM	QPSK	1	137	0 mm	bottom	1:1	0.007	31.71	
3930.00	662000	High	NR Band n77	100	11.08	Ant 4a	0.0	DFT-S-OFDM	QPSK	135	138	0 mm	bottom	1:1	0.007	31.66	
3750.00	650000	Low	NR Band n77	100	11.13	Ant 4a	0.0	DFT-S-OFDM	QPSK	1	137	0 mm	right	1:1	0.000	40.16	
3930.00	662000	High	NR Band n77	100	11.08	Ant 4a	0.0	DFT-S-OFDM	QPSK	135	138	0 mm	right	1:1	0.000	40.11	
3750.00	650000	Low	NR Band n77	100	11.13	Ant 4a	0.0	DFT-S-OFDM	QPSK	1	137	0 mm	left	1:1	0.754	11.39	
3930.00	662000	High	NR Band n77	100	11.08	Ant 4a	0.0	DFT-S-OFDM	QPSK	1	137	0 mm	left	1:1	0.573	12.53	
3750.00	650000	Low	NR Band n77	100	10.97	Ant 4a	0.0	DFT-S-OFDM	QPSK	135	138	0 mm	left	1:1	0.726	11.39	
3930.00	662000	High	NR Band n77	100	11.08	Ant 4a	0.0	DFT-S-OFDM	QPSK	135	138	0 mm	left	1:1	0.568	12.57	
3930.00	662000	High	NR Band n77	100	10.95	Ant 4a	0.0	DFT-S-OFDM	QPSK	270	0	0 mm	left	1:1	0.541	12.65	
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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