



PART 0 SAR CHAR REPORT

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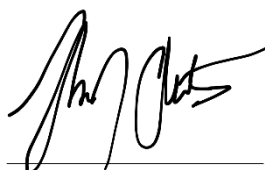
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FCC ID: BCGA2589

APPLICANT: APPLE, INC.

Report Type: Part 0 SAR Characterization
DUT Type: Tablet Device
Model(s): A2589, A2591

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.



RJ Ortanez
Executive Vice President



FCC ID: BCGA2589	 PART 0 SAR CHAR REPORT	Approved by: Quality Manager
Document S/N: 1C2111150079-28.BCG	Test Dates: 12/07/2021 – 01/03/2022	DUT Type: Tablet Device
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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
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 n2 (PCS)	Data	1852.5 - 1907.5 MHz
NR Band n25 (PCS)	Data	1852.5 - 1912.5 MHz
NR Band n30	Data	2307.5 - 2312.5 MHz
NR Band n7	Data	2502.5 - 2567.5 MHz
NR Band n41	Data	2506.02 - 2679.99 MHz
NR Band n77 DoD	Data	3460.02 - 3540 MHz
NR Band n77 C	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

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.

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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 3G/4G/5G Sub-6 NR WWAN is in compliance with FCC requirements. This Part 0 report shows SAR characterization of WWAN radios for 3G/4G/5G Sub-6 NR. Characterization is achieved by determining P_{Limit} for 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
3G/4G/5G Sub-6 NR	P_{limit}	Power level that corresponds to the exposure design target (SAR_design_target) after accounting for all device design related uncertainties
	P_{max}	Maximum tune up output power
	SAR_design_target	Target SAR level < FCC SAR limit after accounting for all device design related uncertainties
	SAR Char	Table containing P_{limit} for all technologies and bands

1.4 Bibliography

Report Type	Report Serial Number
FCC SAR Evaluation Report (Part 1)	1C2111150079-26.BCG
RF Exposure Part 2 Test Report	1C2111150079-29.BCG
RF Exposure Compliance Summary	1C2111150079-31.BCG

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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. 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.

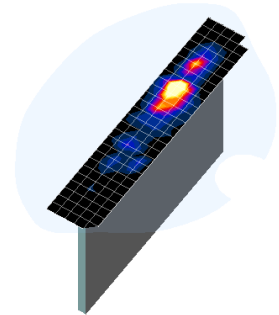


Figure 2-1
Sample SAR Area Scan

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3. Based on the area scan data, the peak of the region with maximum SAR was determined by spline interpolation. Around this point, a volume was assessed according to the measurement resolution and volume size requirements of FCC KDB Publication 865664 D01v01r04 (See Table 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 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).
 - b. After the maximum interpolated values were calculated between the points in the cube, the SAR was averaged over the spatial volume (1g or 10g) using a 3D-Spline interpolation algorithm. The 3D-spline is composed of three one-dimensional splines with the “Not a knot” condition (in x, y, and z directions). The volume was then integrated with the trapezoidal algorithm. One thousand points (10 x 10 x 10) were obtained through interpolation, in order to calculate the averaged SAR.
 - c. All neighboring volumes were evaluated until no neighboring volume with a higher average value was found.
4. The SAR reference value, at the same location as step 2, was re-measured after the zoom scan was complete to calculate the SAR drift. If the drift deviated by more than 5%, the SAR test and drift measurements were repeated.

Table 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	Tablet SAR per KDB Publication 616217 D04

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 1a/1b Body	Ant 1a/1b Maximum Tune-up Output Power*	Ant 2a/2b Body	Ant 2a/2b Maximum Tune-up Output Power*	Ant 3a/3b Body	Ant 3a/3b Maximum Tune-up Output Power*	Ant 4 Body	Ant 4 Maximum Tune-up Output Power*	Manufacturer's Smart Transmit Uncertainty (dB)	Pmax target Tolerance (dB)	Plimit target Tolerance (dB)
Averaging Volume:	1g		1g		1g		1g				
Spacing:	0 mm		0 mm		0 mm		0 mm				
DSI:	1		1		1		1				
Technology/Band	Plimit corresponding to 0.8 W/kg	Pmax	Plimit corresponding to 0.8 W/kg	Pmax	Plimit corresponding to 0.8 W/kg	Pmax	Plimit corresponding to 0.8 W/kg	Pmax			
UMTS 850	N/A	N/A	N/A	N/A	16.40	24.50	19.30	25.00	+/- 1.0	+0.7 /- 1.0	+/- 1.0
UMTS 1750	14.30	22.70	12.50	23.20	12.70	24.00	14.30	24.70			
UMTS 1900	13.50	22.70	12.70	23.20	12.50	24.00	14.40	24.70			
LTE Band 71	N/A	N/A	N/A	N/A	18.40	24.50	21.10	25.00			
LTE Band 12	N/A	N/A	N/A	N/A	17.30	24.50	20.40	25.00			
LTE Band 17	N/A	N/A	N/A	N/A	17.30	24.50	20.40	25.00			
LTE Band 13	N/A	N/A	N/A	N/A	16.50	24.50	20.20	25.00			
LTE Band 14	N/A	N/A	N/A	N/A	16.50	24.50	20.20	25.00			
LTE Band 26 (Cell)	N/A	N/A	N/A	N/A	16.40	24.50	19.30	25.00			
LTE Band 5 (Cell)	N/A	N/A	N/A	N/A	16.40	24.50	19.30	25.00			
LTE Band 5 ULCA (Cell)	N/A	N/A	N/A	N/A	16.40	24.50	19.30	25.00			
LTE Band 66 (AWS)	14.30	22.70	12.50	23.20	12.70	24.00	14.30	24.70			
LTE Band 66 ULCA (AWS)	14.30	23.00	12.50	23.50	12.70	24.30	14.30	25.00			
LTE Band 4 (AWS)	14.30	22.70	12.50	23.20	12.70	24.00	14.30	24.70			
LTE Band 25 (PCS)	13.50	22.70	12.70	23.20	12.50	24.00	14.40	24.70			
LTE Band 2 (PCS)	13.50	22.70	12.70	23.20	12.50	24.00	14.40	24.70			
LTE Band 30	13.00	21.70	11.50	21.40	11.40	22.00	13.40	20.80			
LTE Band 7	12.00	22.20	13.00	23.20	11.10	23.70	13.40	24.70			
LTE Band 7 ULCA	12.00	22.80	13.00	23.30	11.10	24.00	13.40	25.00			
LTE Band 41 PC3	12.4	22.01	13.0	23.01	11.7	23.01	13.0	23.01			
LTE Band 41 ULCA PC3	12.4	22.31	13.0	23.01	11.7	23.01	13.0	23.01			
LTE Band 41 PC2	12.4	20.36	13.0	21.36	11.7	21.86	13.0	22.86			
LTE Band 41 ULCA PC2	12.4	20.66	13.0	21.66	11.7	22.16	13.0	23.16			
LTE Band 48	10.81	20.01	12.21	18.51	12.51	17.11	11.71	15.71			
LTE Band 48 ULCA	10.81	20.31	12.21	18.81	12.51	17.11	11.71	15.71			
NR Band n71	N/A	N/A	N/A	N/A	18.40	24.50	21.10	25.00			
NR Band n12	N/A	N/A	N/A	N/A	17.30	24.50	20.40	25.00			
NR Band n5 (Cell)	N/A	N/A	N/A	N/A	16.40	24.50	19.30	25.00			
NR Band n66 (AWS)	14.30	22.70	12.50	23.20	12.70	24.00	14.30	24.70			
NR Band n25 (PCS)	13.50	22.70	12.70	23.20	12.50	24.00	14.40	24.70			
NR Band n2 (PCS)	13.50	22.70	12.70	23.20	12.50	24.00	14.40	24.70			
NR Band n30	13.00	18.00	11.50	19.00	11.40	19.50	13.40	20.50			
NR Band n7	12.00	22.20	13.00	23.20	11.10	23.70	13.40	24.70			
NR Band n41 PC3	13.30	25.00	12.50	25.00	11.80	23.50	13.00	24.00			
NR Band n41 PC2	13.30	25.50	12.50	27.00	11.80	23.50	13.00	24.00			
NR Band n77 PC3	11.70	22.00	11.50	22.00	13.40	25.00	10.60	24.00			
NR Band n77 PC2	11.70	22.00	11.50	22.00	13.40	25.20	10.60	25.50			

Notes:

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

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EQUIPMENT LIST

For SAR measurements

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
Agilent	8753ES	S-Parameter Vector Network Analyzer	12/17/2021	Annual	12/17/2022	MY4000670
Agilent	N9020A	MXA Signal Analyzer	02/24/2021	Annual	02/24/2022	MY48010233
Agilent	8753ES	S-Parameter Vector Network Analyzer	04/14/2021	Annual	04/14/2022	US39170118
Agilent	8753ES	S-Parameter Vector Network Analyzer	04/14/2021	Annual	04/14/2022	US39170118
Agilent	E4404A	PSA Series Spectrum Analyzer	01/29/2021	Annual	01/29/2022	MY46186272
Agilent	E5515C	Wireless Communications Test Set	05/04/2021	Biennial	05/04/2023	GB41450275
Agilent	E5515C	Wireless Communications Test Set	02/04/2021	Annual	02/04/2022	GB43193563
Amplifier Research	150A100C	Amplifier	CBT	N/A	CBT	350132
Amplifier Research	1551G6	Amplifier	CBT	N/A	CBT	343972
Amplifier Research	1551G6	Amplifier	CBT	N/A	CBT	343971
Anritsu	MA24106A	USB Power Sensor	02/25/2021	Annual	02/25/2022	1520503
Anritsu	MA24106A	USB Power Sensor	02/25/2021	Annual	02/25/2022	1520501
Anritsu	MA2411B	Pulse Power Sensor	03/08/2021	Annual	03/08/2022	1339007
Anritsu	ML2496A	Power Meter	02/19/2021	Annual	02/19/2022	1138001
Anritsu	MT8821C	Radio Communication Analyzer	05/21/2021	Annual	05/21/2022	6201144419
Control Company	4040	Therm./ Clock/ Humidity Monitor	02/23/2021	Annual	02/23/2022	160574418
Control Company	4353	Long Stem Thermometer	10/28/2020	Biennial	10/28/2022	200670623
Control Company	4353	Long Stem Thermometer	10/28/2020	Biennial	10/28/2022	200670633
Control Company	4353	Long Stem Thermometer	10/28/2020	Biennial	10/28/2022	200670635
Control Company	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
Insitz	1108-150	Digital Caliper	01/17/2020	Biennial	01/17/2022	409193536
Keysight Technologies	E4438C	VECTOR SIGNAL GENERATOR	10/15/2021	Annual	10/15/2022	MY45092078
MCL	BW-N10W5+	Attenuator	09/15/2021	Annual	09/15/2022	2106
MCL	BW-N3W5+	Attenuator	07/06/2021	Annual	07/06/2022	1608
MCL	BW-N6W5+	6dB Attenuator	CBT	N/A	CBT	1139
Mini Circuits	PWR-4GH5	USB Power Sensor	05/24/2021	Annual	05/24/2022	1201012004
Mini-Circuits	NLP-1200+	Low Pass Filter	07/06/2021	Annual	07/06/2022	UU13301538
Mini-Circuits	NLP-2950+	Low Pass Filter	07/06/2021	Annual	07/06/2022	UU19201507
Mini-Circuits	VHF-8400+	High Pass Filter	07/06/2021	Annual	07/06/2022	31048
Mini-Circuits	VLF-6000+	Low Pass Filter	07/06/2021	Annual	07/06/2022	31634
Mini-Circuits	ZHDC-16-63-S+	Bidirectional Coupler	CBT	N/A	CBT	N/A
Pasternack	PE2209-10	Bidirectional Coupler	CBT	N/A	CBT	N/A
Rohde & Schwarz	CMW500	Radio Communication Tester	12/30/2021	Annual	12/30/2022	106578
Rohde & Schwarz	CMW500	Radio Communication Tester	07/19/2021	Annual	07/19/2022	128635
Rohde & Schwarz	CMW500	Radio Communication Tester	01/20/2021	Annual	01/20/2022	122206
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	09/29/2021	Annual	09/29/2022	151849
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	09/29/2021	Annual	09/29/2022	145663
Rohde & Schwarz	FSP-7	Spectrum Analyzer	01/09/2020	Biennial	01/09/2022	100990
Rohde & Schwarz	CMW500	Radio Communication Tester	04/13/2021	Annual	04/13/2022	167284
Rohde & Schwarz	CMW500	Radio Communication Tester	04/27/2021	Annual	04/27/2022	167285
Rosenberger	32W006-016	Torque Wrench	08/27/2020	Biennial	08/27/2022	N/A
SPEAG	DAKS-3.5	Portable DAK	10/07/2021	Annual	10/07/2022	1045
SPEAG	D750V3	750 MHz SAR Dipole	09/08/2021	Annual	09/08/2022	1097
SPEAG	D835V2	835 MHz SAR Dipole	06/20/2019	Triennial	06/20/2022	4d4040
SPEAG	D1750V2	1750 MHz SAR Dipole	06/19/2019	Triennial	06/19/2022	1083
SPEAG	D1750V2	1750 MHz SAR Dipole	09/09/2020	Biennial	09/09/2022	1104
SPEAG	D1900V2	1900 MHz SAR Dipole	06/19/2019	Triennial	06/19/2022	5d180
SPEAG	D1900V2	1900 MHz SAR Dipole	08/10/2020	Biennial	08/10/2022	503030
SPEAG	D2300V2	2300 MHz SAR Dipole	11/10/2020	Biennial	11/10/2022	1064
SPEAG	D2450V2	2450 MHz SAR Dipole	06/14/2019	Triennial	06/14/2022	750
SPEAG	D2600V2	2600 MHz SAR Dipole	06/14/2019	Triennial	06/14/2022	1042
SPEAG	D3500V2	3500 MHz SAR Dipole	08/16/2019	Triennial	08/16/2022	1055
SPEAG	D3700V2	3700 MHz SAR Dipole	06/09/2021	Annual	06/09/2022	1097
SPEAG	D3700V2	3700 MHz SAR Dipole	10/17/2019	Triennial	10/17/2022	1002
SPEAG	D3900V2	3900 MHz SAR Dipole	11/13/2020	Biennial	11/13/2022	1062
SPEAG	D5GHzV2	5 GHz SAR Dipole	03/10/2021	Annual	03/10/2022	1123
SPEAG	DAE4	Dasy Data Acquisition Electronics	01/13/2021	Annual	01/13/2022	793
SPEAG	DAE4	Dasy Data Acquisition Electronics	05/11/2021	Annual	05/11/2022	701
SPEAG	DAE4	Dasy Data Acquisition Electronics	04/13/2021	Annual	04/13/2022	501
SPEAG	DAE4	Dasy Data Acquisition Electronics	03/10/2021	Annual	03/10/2022	604
SPEAG	DAE4	Dasy Data Acquisition Electronics	07/14/2021	Annual	07/14/2022	1402
SPEAG	DAE4	Dasy Data Acquisition Electronics	10/20/2021	Annual	10/20/2022	1333
SPEAG	DAE4	Dasy Data Acquisition Electronics	08/06/2021	Annual	08/06/2022	1683
SPEAG	DAK-3.5	Dielectric Assessment Kit	05/12/2021	Annual	05/12/2022	1070
SPEAG	EX3DV4	SAR Probe	05/18/2021	Annual	05/18/2022	7416
SPEAG	EX3DV4	SAR Probe	01/18/2021	Annual	01/18/2022	3837
SPEAG	EX3DV4	SAR Probe	02/17/2021	Annual	02/17/2022	7427
SPEAG	EX3DV4	SAR Probe	03/17/2021	Annual	03/17/2022	7421
SPEAG	EX3DV4	SAR Probe	10/27/2021	Annual	10/27/2022	7420
SPEAG	EX3DV4	SAR Probe	07/21/2021	Annual	07/21/2022	7546
SPEAG	EX3DV4	SAR Probe	04/19/2021	Annual	04/19/2022	7532
SPEAG	EX3DV4	SAR Probe	09/06/2021	Annual	09/06/2022	7674
SPEAG	MAIA	Modulation and Audio Interference Analyzer	CBT	N/A	CBT	1237
SPEAG	MAIA	Modulation and Audio Interference Analyzer	CBT	N/A	CBT	1324
SPEAG	MAIA	Modulation and Audio Interference Analyzer	CBT	N/A	CBT	1260

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

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

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

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Note: For some bands/modes, a lower P_{limit} was selected as a more conservative evaluation.

Table A-1
DSI = 1 P_{Limit} Calculations – Antenna 4 UMTS 850

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	20.27	0 mm	Ant 4	1:1	back	0.786	20.35	19.46
836.60	4183	UMTS 850	RMC	20.18	0 mm	Ant 4	1:1	back	0.717	20.66	
846.60	4233	UMTS 850	RMC	20.15	0 mm	Ant 4	1:1	back	0.672	20.91	
826.40	4132	UMTS 850	RMC	20.27	0 mm	Ant 4	1:1	top	0.682	20.96	
826.40	4132	UMTS 850	RMC	20.27	0 mm	Ant 4	1:1	bottom	0.019	36.51	
826.40	4132	UMTS 850	RMC	20.27	0 mm	Ant 4	1:1	right	0.011	38.89	
826.40	4132	UMTS 850	RMC	20.27	0 mm	Ant 4	1:1	left	0.948	19.53	
836.60	4183	UMTS 850	RMC	20.18	0 mm	Ant 4	1:1	left	0.945	19.46	
846.60	4233	UMTS 850	RMC	20.15	0 mm	Ant 4	1:1	left	0.890	19.69	
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-2
DSI = 1 P_{Limit} Calculations – Antenna 3b UMTS 850

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	16.30	0 mm	Ant 3b	1:1	back	0.634	17.31	16.46
836.60	4183	UMTS 850	RMC	16.19	0 mm	Ant 3b	1:1	back	0.672	16.95	
846.60	4233	UMTS 850	RMC	16.27	0 mm	Ant 3b	1:1	back	0.731	16.66	
826.40	4132	UMTS 850	RMC	16.30	0 mm	Ant 3b	1:1	top	0.751	16.57	
836.60	4183	UMTS 850	RMC	16.19	0 mm	Ant 3b	1:1	top	0.747	16.49	
846.60	4233	UMTS 850	RMC	16.27	0 mm	Ant 3b	1:1	top	0.765	16.46	
826.40	4132	UMTS 850	RMC	16.30	0 mm	Ant 3b	1:1	bottom	0.002	42.32	
826.40	4132	UMTS 850	RMC	16.30	0 mm	Ant 3b	1:1	right	0.062	27.41	
826.40	4132	UMTS 850	RMC	16.30	0 mm	Ant 3b	1:1	left	0.006	37.55	
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 – Antenna 4 UMTS 1750

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	15.18	0 mm	Ant 4	1:1	back	0.843	14.95	14.83
1732.40	1412	UMTS 1750	RMC	15.19	0 mm	Ant 4	1:1	back	0.843	14.96	
1752.60	1513	UMTS 1750	RMC	15.25	0 mm	Ant 4	1:1	back	0.834	15.07	
1712.40	1312	UMTS 1750	RMC	15.18	0 mm	Ant 4	1:1	top	0.845	14.94	
1732.40	1412	UMTS 1750	RMC	15.19	0 mm	Ant 4	1:1	top	0.857	14.89	
1752.60	1513	UMTS 1750	RMC	15.25	0 mm	Ant 4	1:1	top	0.882	14.83	
1752.60	1513	UMTS 1750	RMC	15.25	0 mm	Ant 4	1:1	bottom	0.000	44.28	
1752.60	1513	UMTS 1750	RMC	15.25	0 mm	Ant 4	1:1	right	0.019	31.49	
1752.60	1513	UMTS 1750	RMC	15.25	0 mm	Ant 4	1:1	left	0.646	16.18	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population					Body 1.6 W/kg (mW/g) averaged over 1 gram						

Table A-4
DSI = 1 P_{Limit} Calculations – Antenna 3a UMTS 1750

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]
1752.60	1513	UMTS 1750	RMC	12.90	0 mm	Ant 3a	1:1	back	0.458	15.32	13.14
1752.60	1513	UMTS 1750	RMC	12.90	0 mm	Ant 3a	1:1	top	0.313	16.98	
1752.60	1513	UMTS 1750	RMC	12.90	0 mm	Ant 3a	1:1	bottom	0.006	34.15	
1712.40	1312	UMTS 1750	RMC	12.82	0 mm	Ant 3a	1:1	right	0.720	13.28	
1732.40	1412	UMTS 1750	RMC	12.83	0 mm	Ant 3a	1:1	right	0.745	13.14	
1752.60	1513	UMTS 1750	RMC	12.90	0 mm	Ant 3a	1:1	right	0.755	13.15	
1752.60	1513	UMTS 1750	RMC	12.90	0 mm	Ant 3a	1:1	left	0.004	35.91	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population					Body 1.6 W/kg (mW/g) averaged over 1 gram						

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Table A-5
DSI = 1 P_{Limit} Calculations – Antenna 2a UMTS 1750

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	12.97	0 mm	Ant 2a	1:1	back	0.769	13.14	12.56
1732.40	1412	UMTS 1750	RMC	13.03	0 mm	Ant 2a	1:1	back	0.812	12.97	
1752.60	1513	UMTS 1750	RMC	13.30	0 mm	Ant 2a	1:1	back	0.948	12.56	
1752.60	1513	UMTS 1750	RMC	13.30	0 mm	Ant 2a	1:1	top	0.005	35.34	
1752.60	1513	UMTS 1750	RMC	13.30	0 mm	Ant 2a	1:1	bottom	0.304	17.50	
1712.40	1312	UMTS 1750	RMC	12.97	0 mm	Ant 2a	1:1	right	0.676	13.70	
1732.40	1412	UMTS 1750	RMC	13.03	0 mm	Ant 2a	1:1	right	0.686	13.70	
1752.60	1513	UMTS 1750	RMC	13.30	0 mm	Ant 2a	1:1	right	0.700	13.88	
1752.60	1513	UMTS 1750	RMC	13.30	0 mm	Ant 2a	1:1	left	0.000	42.33	
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 – Antenna 1a UMTS 1750

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	14.41	0 mm	Ant 1a	1:1	back	0.769	14.58	14.36
1732.40	1412	UMTS 1750	RMC	14.39	0 mm	Ant 1a	1:1	back	0.742	14.72	
1752.60	1513	UMTS 1750	RMC	14.49	0 mm	Ant 1a	1:1	back	0.761	14.71	
1752.60	1513	UMTS 1750	RMC	14.49	0 mm	Ant 1a	1:1	top	0.025	29.54	
1752.60	1513	UMTS 1750	RMC	14.49	0 mm	Ant 1a	1:1	bottom	0.405	17.45	
1752.60	1513	UMTS 1750	RMC	14.49	0 mm	Ant 1a	1:1	right	0.005	36.53	
1712.40	1312	UMTS 1750	RMC	14.41	0 mm	Ant 1a	1:1	left	0.779	14.53	
1732.40	1412	UMTS 1750	RMC	14.39	0 mm	Ant 1a	1:1	left	0.780	14.50	
1752.60	1513	UMTS 1750	RMC	14.49	0 mm	Ant 1a	1:1	left	0.825	14.36	
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-7
DSI = 1 P_{Limit} Calculations – Antenna 4 UMTS 1900

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	14.53	0 mm	Ant 4	1:1	back	0.747	14.83	14.83
1880.00	9400	UMTS 1900	RMC	14.60	0 mm	Ant 4	1:1	back	0.744	14.92	
1907.60	9538	UMTS 1900	RMC	14.59	0 mm	Ant 4	1:1	back	0.741	14.92	
1880.00	9400	UMTS 1900	RMC	14.60	0 mm	Ant 4	1:1	top	0.601	15.84	
1880.00	9400	UMTS 1900	RMC	14.60	0 mm	Ant 4	1:1	bottom	0.000	43.63	
1880.00	9400	UMTS 1900	RMC	14.60	0 mm	Ant 4	1:1	right	0.018	31.08	
1880.00	9400	UMTS 1900	RMC	14.60	0 mm	Ant 4	1:1	left	0.200	20.62	
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 – Antenna 3a UMTS 1900

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	12.67	0 mm	Ant 3a	1:1	back	0.348	16.29	12.57
1880.00	9400	UMTS 1900	RMC	12.67	0 mm	Ant 3a	1:1	top	0.236	17.97	
1880.00	9400	UMTS 1900	RMC	12.67	0 mm	Ant 3a	1:1	bottom	0.001	41.70	
1852.40	9262	UMTS 1900	RMC	12.63	0 mm	Ant 3a	1:1	right	0.766	12.82	
1880.00	9400	UMTS 1900	RMC	12.67	0 mm	Ant 3a	1:1	right	0.762	12.88	
1907.60	9538	UMTS 1900	RMC	12.45	0 mm	Ant 3a	1:1	right	0.778	12.57	
1880.00	9400	UMTS 1900	RMC	12.67	0 mm	Ant 3a	1:1	left	0.009	32.16	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population					Body 1.6 W/kg (mW/g) averaged over 1 gram						

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Table A-9
DSI = 1 P_{Limit} Calculations – Antenna 2a UMTS 1900

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	12.78	0 mm	Ant 2a	1:1	back	0.774	12.92	12.92
1880.00	9400	UMTS 1900	RMC	12.75	0 mm	Ant 2a	1:1	back	0.759	12.98	
1907.60	9538	UMTS 1900	RMC	12.69	0 mm	Ant 2a	1:1	back	0.724	13.12	
1852.40	9262	UMTS 1900	RMC	12.78	0 mm	Ant 2a	1:1	top	0.012	31.02	
1852.40	9262	UMTS 1900	RMC	12.78	0 mm	Ant 2a	1:1	bottom	0.366	16.18	
1852.40	9262	UMTS 1900	RMC	12.78	0 mm	Ant 2a	1:1	right	0.539	14.49	
1852.40	9262	UMTS 1900	RMC	12.78	0 mm	Ant 2a	1:1	left	0.001	41.81	
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 – Antenna 1a UMTS 1900

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	13.04	0 mm	Ant 1a	1:1	back	0.687	13.70	13.70
1880.00	9400	UMTS 1900	RMC	13.13	0 mm	Ant 1a	1:1	back	0.687	13.79	
1907.60	9538	UMTS 1900	RMC	13.19	0 mm	Ant 1a	1:1	back	0.669	13.97	
1907.60	9538	UMTS 1900	RMC	13.19	0 mm	Ant 1a	1:1	top	0.014	30.76	
1907.60	9538	UMTS 1900	RMC	13.19	0 mm	Ant 1a	1:1	bottom	0.330	17.04	
1907.60	9538	UMTS 1900	RMC	13.19	0 mm	Ant 1a	1:1	right	0.005	35.23	
1852.40	9262	UMTS 1900	RMC	13.04	0 mm	Ant 1a	1:1	left	0.620	14.15	
1880.00	9400	UMTS 1900	RMC	13.13	0 mm	Ant 1a	1:1	left	0.627	14.19	
1907.60	9538	UMTS 1900	RMC	13.19	0 mm	Ant 1a	1:1	left	0.669	13.97	
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 – Antenna 4 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	20.65	0	Ant 4	QPSK	1	0	0 mm	back	1:1	0.571	22.11	21.99
680.50	133297	Mid	LTE Band 71	20	20.70	0	Ant 4	QPSK	50	0	0 mm	back	1:1	0.538	22.42	
680.50	133297	Mid	LTE Band 71	20	20.65	0	Ant 4	QPSK	1	0	0 mm	top	1:1	0.463	23.03	
680.50	133297	Mid	LTE Band 71	20	20.70	0	Ant 4	QPSK	50	0	0 mm	top	1:1	0.467	23.04	
680.50	133297	Mid	LTE Band 71	20	20.65	0	Ant 4	QPSK	1	0	0 mm	bottom	1:1	0.016	37.64	
680.50	133297	Mid	LTE Band 71	20	20.70	0	Ant 4	QPSK	50	0	0 mm	bottom	1:1	0.012	38.94	
680.50	133297	Mid	LTE Band 71	20	20.65	0	Ant 4	QPSK	1	0	0 mm	right	1:1	0.030	34.91	
680.50	133297	Mid	LTE Band 71	20	20.70	0	Ant 4	QPSK	50	0	0 mm	right	1:1	0.026	35.58	
680.50	133297	Mid	LTE Band 71	20	20.65	0	Ant 4	QPSK	1	0	0 mm	left	1:1	0.587	21.99	
680.50	133297	Mid	LTE Band 71	20	20.70	0	Ant 4	QPSK	50	0	0 mm	left	1:1	0.539	22.42	
680.50	133297	Mid	LTE Band 71	20	20.63	0	Ant 4	QPSK	100	0	0 mm	left	1:1	0.521	22.49	
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-12
DSI = 1 P_{Limit} Calculations – Antenna 3b 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	18.71	0	Ant 3b	QPSK	1	0	0 mm	back	1:1	0.805	18.68	18.68
680.50	133297	Mid	LTE Band 71	20	18.72	0	Ant 3b	QPSK	50	25	0 mm	back	1:1	0.750	19.00	
680.50	133297	Mid	LTE Band 71	20	18.70	0	Ant 3b	QPSK	100	0	0 mm	back	1:1	0.749	18.99	
680.50	133297	Mid	LTE Band 71	20	18.71	0	Ant 3b	QPSK	1	0	0 mm	top	1:1	0.712	19.22	
680.50	133297	Mid	LTE Band 71	20	18.72	0	Ant 3b	QPSK	50	25	0 mm	top	1:1	0.655	19.59	
680.50	133297	Mid	LTE Band 71	20	18.70	0	Ant 3b	QPSK	100	0	0 mm	top	1:1	0.664	19.51	
680.50	133297	Mid	LTE Band 71	20	18.71	0	Ant 3b	QPSK	1	0	0 mm	bottom	1:1	0.007	39.29	
680.50	133297	Mid	LTE Band 71	20	18.72	0	Ant 3b	QPSK	50	25	0 mm	bottom	1:1	0.004	41.73	
680.50	133297	Mid	LTE Band 71	20	18.71	0	Ant 3b	QPSK	1	0	0 mm	right	1:1	0.085	28.45	
680.50	133297	Mid	LTE Band 71	20	18.72	0	Ant 3b	QPSK	50	25	0 mm	right	1:1	0.072	29.18	
680.50	133297	Mid	LTE Band 71	20	18.71	0	Ant 3b	QPSK	1	0	0 mm	left	1:1	0.012	36.95	
680.50	133297	Mid	LTE Band 71	20	18.72	0	Ant 3b	QPSK	50	25	0 mm	left	1:1	0.008	38.72	
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: BCGA2589	 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 – Antenna 4 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	19.96	0	Ant 4	QPSK	1	0	0 mm	back	1:1	0.654	20.84	20.84
707.50	23095	Mid	LTE Band 12	10	20.12	0	Ant 4	QPSK	25	12	0 mm	back	1:1	0.637	21.11	
707.50	23095	Mid	LTE Band 12	10	19.95	0	Ant 4	QPSK	50	0	0 mm	back	1:1	0.641	20.91	
707.50	23095	Mid	LTE Band 12	10	19.96	0	Ant 4	QPSK	1	0	0 mm	top	1:1	0.523	21.81	
707.50	23095	Mid	LTE Band 12	10	20.12	0	Ant 4	QPSK	25	12	0 mm	top	1:1	0.552	21.73	
707.50	23095	Mid	LTE Band 12	10	19.96	0	Ant 4	QPSK	1	0	0 mm	bottom	1:1	0.017	36.69	
707.50	23095	Mid	LTE Band 12	10	20.12	0	Ant 4	QPSK	25	12	0 mm	bottom	1:1	0.017	36.85	
707.50	23095	Mid	LTE Band 12	10	19.96	0	Ant 4	QPSK	1	0	0 mm	right	1:1	0.029	34.37	
707.50	23095	Mid	LTE Band 12	10	20.12	0	Ant 4	QPSK	25	12	0 mm	right	1:1	0.028	34.68	
707.50	23095	Mid	LTE Band 12	10	19.96	0	Ant 4	QPSK	1	0	0 mm	left	1:1	0.629	21.00	
707.50	23095	Mid	LTE Band 12	10	20.12	0	Ant 4	QPSK	25	12	0 mm	left	1:1	0.624	21.20	
707.50	23095	Mid	LTE Band 12	10	19.95	0	Ant 4	QPSK	50	0	0 mm	left	1:1	0.564	21.47	
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 – Antenna 3b 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	16.95	0	Ant 3b	QPSK	1	25	0 mm	back	1:1	0.544	18.62	17.80
707.50	23095	Mid	LTE Band 12	10	16.99	0	Ant 3b	QPSK	25	25	0 mm	back	1:1	0.575	18.42	
707.50	23095	Mid	LTE Band 12	10	16.95	0	Ant 3b	QPSK	1	25	0 mm	top	1:1	0.625	18.02	
707.50	23095	Mid	LTE Band 12	10	16.99	0	Ant 3b	QPSK	25	25	0 mm	top	1:1	0.635	17.99	
707.50	23095	Mid	LTE Band 12	10	16.93	0	Ant 3b	QPSK	50	0	0 mm	top	1:1	0.655	17.80	
707.50	23095	Mid	LTE Band 12	10	16.95	0	Ant 3b	QPSK	1	25	0 mm	bottom	1:1	0.004	39.96	
707.50	23095	Mid	LTE Band 12	10	16.99	0	Ant 3b	QPSK	25	25	0 mm	bottom	1:1	0.005	39.03	
707.50	23095	Mid	LTE Band 12	10	16.95	0	Ant 3b	QPSK	1	25	0 mm	right	1:1	0.041	29.85	
707.50	23095	Mid	LTE Band 12	10	16.99	0	Ant 3b	QPSK	25	25	0 mm	right	1:1	0.043	29.69	
707.50	23095	Mid	LTE Band 12	10	16.95	0	Ant 3b	QPSK	1	25	0 mm	left	1:1	0.009	36.44	
707.50	23095	Mid	LTE Band 12	10	16.99	0	Ant 3b	QPSK	25	25	0 mm	left	1:1	0.009	36.48	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						Body 1.6 W/kg (mW/g) averaged over 1 gram										

FCC ID: BCGA2589	 PCTEST Proud to be part of element	PART 0 SAR CHAR REPORT	Approved by: Quality Manager
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Table A-15
DSI = 1 P_{Limit} Calculations – Antenna 4 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	19.56	0	Ant 4	QPSK	1	0	0 mm	back	1:1	0.556	21.14	20.33
782.00	23230	Mid	LTE Band 13	10	19.60	0	Ant 4	QPSK	25	25	0 mm	back	1:1	0.557	21.17	
782.00	23230	Mid	LTE Band 13	10	19.55	0	Ant 4	QPSK	50	0	0 mm	back	1:1	0.597	20.82	
782.00	23230	Mid	LTE Band 13	10	19.56	0	Ant 4	QPSK	1	0	0 mm	top	1:1	0.525	21.39	
782.00	23230	Mid	LTE Band 13	10	19.60	0	Ant 4	QPSK	25	25	0 mm	top	1:1	0.548	21.24	
782.00	23230	Mid	LTE Band 13	10	19.56	0	Ant 4	QPSK	1	0	0 mm	bottom	1:1	0.019	35.80	
782.00	23230	Mid	LTE Band 13	10	19.60	0	Ant 4	QPSK	25	25	0 mm	bottom	1:1	0.019	35.84	
782.00	23230	Mid	LTE Band 13	10	19.56	0	Ant 4	QPSK	1	0	0 mm	right	1:1	0.029	33.97	
782.00	23230	Mid	LTE Band 13	10	19.60	0	Ant 4	QPSK	25	25	0 mm	right	1:1	0.023	35.01	
782.00	23230	Mid	LTE Band 13	10	19.56	0	Ant 4	QPSK	1	0	0 mm	left	1:1	0.588	20.90	
782.00	23230	Mid	LTE Band 13	10	19.60	0	Ant 4	QPSK	25	25	0 mm	left	1:1	0.578	21.01	
782.00	23230	Mid	LTE Band 13	10	19.55	0	Ant 4	QPSK	50	0	0 mm	left	1:1	0.669	20.33	
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 – Antenna 3b 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	16.17	0	Ant 3b	QPSK	1	0	0 mm	back	1:1	0.636	17.17	17.07
782.00	23230	Mid	LTE Band 13	10	16.27	0	Ant 3b	QPSK	25	12	0 mm	back	1:1	0.652	17.16	
782.00	23230	Mid	LTE Band 13	10	16.15	0	Ant 3b	QPSK	50	0	0 mm	back	1:1	0.647	17.07	
782.00	23230	Mid	LTE Band 13	10	16.17	0	Ant 3b	QPSK	1	0	0 mm	top	1:1	0.512	18.11	
782.00	23230	Mid	LTE Band 13	10	16.27	0	Ant 3b	QPSK	25	12	0 mm	top	1:1	0.539	17.98	
782.00	23230	Mid	LTE Band 13	10	16.17	0	Ant 3b	QPSK	1	0	0 mm	bottom	1:1	0.007	36.75	
782.00	23230	Mid	LTE Band 13	10	16.27	0	Ant 3b	QPSK	25	12	0 mm	bottom	1:1	0.006	37.52	
782.00	23230	Mid	LTE Band 13	10	16.17	0	Ant 3b	QPSK	1	0	0 mm	right	1:1	0.071	26.69	
782.00	23230	Mid	LTE Band 13	10	16.27	0	Ant 3b	QPSK	25	12	0 mm	right	1:1	0.078	26.38	
782.00	23230	Mid	LTE Band 13	10	16.17	0	Ant 3b	QPSK	1	0	0 mm	left	1:1	0.004	39.18	
782.00	23230	Mid	LTE Band 13	10	16.27	0	Ant 3b	QPSK	25	12	0 mm	left	1:1	0.006	37.52	
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: BCGA2589	 PCTEST Proud to be part of element	PART 0 SAR CHAR REPORT	Approved by: Quality Manager
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Table A-17
DSI = 1 P_{Limit} Calculations – Antenna 4 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	19.58	0	Ant 4	QPSK	1	0	0 mm	back	1:1	0.529	21.38	20.87
793.00	23330	Mid	LTE Band 14	10	19.61	0	Ant 4	QPSK	25	12	0 mm	back	1:1	0.522	21.46	
793.00	23330	Mid	LTE Band 14	10	19.58	0	Ant 4	QPSK	1	0	0 mm	top	1:1	0.562	21.11	
793.00	23330	Mid	LTE Band 14	10	19.61	0	Ant 4	QPSK	25	12	0 mm	top	1:1	0.591	20.93	
793.00	23330	Mid	LTE Band 14	10	19.55	0	Ant 4	QPSK	50	0	0 mm	top	1:1	0.573	21.00	
793.00	23330	Mid	LTE Band 14	10	19.58	0	Ant 4	QPSK	1	0	0 mm	bottom	1:1	0.022	35.19	
793.00	23330	Mid	LTE Band 14	10	19.61	0	Ant 4	QPSK	25	12	0 mm	bottom	1:1	0.021	35.42	
793.00	23330	Mid	LTE Band 14	10	19.58	0	Ant 4	QPSK	1	0	0 mm	right	1:1	0.025	34.63	
793.00	23330	Mid	LTE Band 14	10	19.61	0	Ant 4	QPSK	25	12	0 mm	right	1:1	0.025	34.66	
793.00	23330	Mid	LTE Band 14	10	19.58	0	Ant 4	QPSK	1	0	0 mm	left	1:1	0.594	20.87	
793.00	23330	Mid	LTE Band 14	10	19.61	0	Ant 4	QPSK	25	12	0 mm	left	1:1	0.568	21.10	
793.00	23330	Mid	LTE Band 14	10	19.55	0	Ant 4	QPSK	50	0	0 mm	left	1:1	0.565	21.06	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						Body 1.6 W/kg (mW/g) averaged over 1 gram										

Table A-18
DSI = 1 P_{Limit} Calculations – Antenna 3b 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	16.05	0	Ant 3b	QPSK	1	0	0 mm	back	1:1	0.628	17.10	16.98
793.00	23330	Mid	LTE Band 14	10	16.15	0	Ant 3b	QPSK	25	12	0 mm	back	1:1	0.623	17.24	
793.00	23330	Mid	LTE Band 14	10	16.00	0	Ant 3b	QPSK	50	0	0 mm	back	1:1	0.639	16.98	
793.00	23330	Mid	LTE Band 14	10	16.05	0	Ant 3b	QPSK	1	0	0 mm	top	1:1	0.489	18.19	
793.00	23330	Mid	LTE Band 14	10	16.15	0	Ant 3b	QPSK	25	12	0 mm	top	1:1	0.487	18.31	
793.00	23330	Mid	LTE Band 14	10	16.05	0	Ant 3b	QPSK	1	0	0 mm	bottom	1:1	0.004	39.06	
793.00	23330	Mid	LTE Band 14	10	16.15	0	Ant 3b	QPSK	25	12	0 mm	bottom	1:1	0.005	38.19	
793.00	23330	Mid	LTE Band 14	10	16.05	0	Ant 3b	QPSK	1	0	0 mm	right	1:1	0.073	26.45	
793.00	23330	Mid	LTE Band 14	10	16.15	0	Ant 3b	QPSK	25	12	0 mm	right	1:1	0.077	26.32	
793.00	23330	Mid	LTE Band 14	10	16.05	0	Ant 3b	QPSK	1	0	0 mm	left	1:1	0.005	38.09	
793.00	23330	Mid	LTE Band 14	10	16.15	0	Ant 3b	QPSK	25	12	0 mm	left	1:1	0.005	38.19	
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: BCGA2589	 PCTEST Proud to be part of element	PART 0 SAR CHAR REPORT	Approved by: Quality Manager
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Table A-19
DSI = 1 P_{Limit} Calculations – Antenna 4 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 [dBm]
MHz	Ch.													(W/kg)	[dBm]	
819.00	26740	Low	LTE Band 26 (Cell)	10	19.98	0	Ant 4	QPSK	1	49	0 mm	back	1:1	0.790	20.03	19.40
831.50	26865	Mid	LTE Band 26 (Cell)	10	20.11	0	Ant 4	QPSK	1	0	0 mm	back	1:1	0.794	20.14	
844.00	26990	High	LTE Band 26 (Cell)	10	20.20	0	Ant 4	QPSK	1	0	0 mm	back	1:1	0.754	20.46	
819.00	26740	Low	LTE Band 26 (Cell)	10	20.30	0	Ant 4	QPSK	25	12	0 mm	back	1:1	0.892	19.83	
831.50	26865	Mid	LTE Band 26 (Cell)	10	20.25	0	Ant 4	QPSK	25	12	0 mm	back	1:1	0.777	20.38	
844.00	26990	High	LTE Band 26 (Cell)	10	20.21	0	Ant 4	QPSK	25	12	0 mm	back	1:1	0.712	20.72	
831.50	26865	Mid	LTE Band 26 (Cell)	10	20.19	0	Ant 4	QPSK	50	0	0 mm	back	1:1	0.819	20.09	
819.00	26740	Low	LTE Band 26 (Cell)	10	19.98	0	Ant 4	QPSK	1	49	0 mm	top	1:1	0.681	20.68	
831.50	26865	Mid	LTE Band 26 (Cell)	10	20.11	0	Ant 4	QPSK	1	0	0 mm	top	1:1	0.686	20.78	
844.00	26990	High	LTE Band 26 (Cell)	10	20.20	0	Ant 4	QPSK	1	0	0 mm	top	1:1	0.688	20.86	
819.00	26740	Low	LTE Band 26 (Cell)	10	20.30	0	Ant 4	QPSK	25	12	0 mm	top	1:1	0.715	20.79	
831.50	26865	Mid	LTE Band 26 (Cell)	10	20.25	0	Ant 4	QPSK	25	12	0 mm	top	1:1	0.708	20.78	
844.00	26990	High	LTE Band 26 (Cell)	10	20.21	0	Ant 4	QPSK	25	12	0 mm	top	1:1	0.711	20.72	
831.50	26865	Mid	LTE Band 26 (Cell)	10	20.19	0	Ant 4	QPSK	50	0	0 mm	top	1:1	0.701	20.76	
844.00	26990	High	LTE Band 26 (Cell)	10	20.20	0	Ant 4	QPSK	1	0	0 mm	bottom	1:1	0.023	35.61	
819.00	26740	Low	LTE Band 26 (Cell)	10	20.30	0	Ant 4	QPSK	25	12	0 mm	bottom	1:1	0.024	35.53	
844.00	26990	High	LTE Band 26 (Cell)	10	20.20	0	Ant 4	QPSK	1	0	0 mm	right	1:1	0.015	37.47	
819.00	26740	Low	LTE Band 26 (Cell)	10	20.30	0	Ant 4	QPSK	25	12	0 mm	right	1:1	0.016	37.29	
819.00	26740	Low	LTE Band 26 (Cell)	10	19.98	0	Ant 4	QPSK	1	49	0 mm	left	1:1	0.893	19.50	
831.50	26865	Mid	LTE Band 26 (Cell)	10	20.11	0	Ant 4	QPSK	1	0	0 mm	left	1:1	0.943	19.40	
844.00	26990	High	LTE Band 26 (Cell)	10	20.20	0	Ant 4	QPSK	1	0	0 mm	left	1:1	0.917	19.61	
819.00	26740	Low	LTE Band 26 (Cell)	10	20.30	0	Ant 4	QPSK	25	12	0 mm	left	1:1	0.942	19.59	
831.50	26865	Mid	LTE Band 26 (Cell)	10	20.25	0	Ant 4	QPSK	25	12	0 mm	left	1:1	0.951	19.50	
844.00	26990	High	LTE Band 26 (Cell)	10	20.21	0	Ant 4	QPSK	25	12	0 mm	left	1:1	0.918	19.61	
831.50	26865	Mid	LTE Band 26 (Cell)	10	20.19	0	Ant 4	QPSK	50	0	0 mm	left	1:1	0.845	19.95	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						Body 1.6 W/kg (mW/g) averaged over 1 gram										

19.40

FCC ID: BCGA2589	 PART 0 SAR CHAR REPORT	Approved by: Quality Manager
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Table A-20
DSI = 1 P_{Limit} Calculations – Antenna 3b 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]
831.50	26865	Mid	LTE Band 26 (Cell)	10	16.03	0	Ant 3b	QPSK	1	0	0 mm	back	1:1	0.559	17.59	16.81
831.50	26865	Mid	LTE Band 26 (Cell)	10	16.20	0	Ant 3b	QPSK	25	12	0 mm	back	1:1	0.590	17.52	
819.00	26740	Low	LTE Band 26 (Cell)	10	15.97	0	Ant 3b	QPSK	1	0	0 mm	top	1:1	0.640	16.94	
831.50	26865	Mid	LTE Band 26 (Cell)	10	16.03	0	Ant 3b	QPSK	1	0	0 mm	top	1:1	0.653	16.91	
844.00	26990	High	LTE Band 26 (Cell)	10	16.02	0	Ant 3b	QPSK	1	0	0 mm	top	1:1	0.651	16.92	
819.00	26740	Low	LTE Band 26 (Cell)	10	16.18	0	Ant 3b	QPSK	25	12	0 mm	top	1:1	0.670	16.95	
831.50	26865	Mid	LTE Band 26 (Cell)	10	16.20	0	Ant 3b	QPSK	25	12	0 mm	top	1:1	0.667	16.99	
844.00	26990	High	LTE Band 26 (Cell)	10	16.12	0	Ant 3b	QPSK	25	12	0 mm	top	1:1	0.667	16.91	
844.00	26990	High	LTE Band 26 (Cell)	10	16.02	0	Ant 3b	QPSK	50	0	0 mm	top	1:1	0.667	16.81	
831.50	26865	Mid	LTE Band 26 (Cell)	10	16.03	0	Ant 3b	QPSK	1	0	0 mm	bottom	1:1	0.002	42.05	
831.50	26865	Mid	LTE Band 26 (Cell)	10	16.20	0	Ant 3b	QPSK	25	12	0 mm	bottom	1:1	0.003	40.46	
831.50	26865	Mid	LTE Band 26 (Cell)	10	16.03	0	Ant 3b	QPSK	1	0	0 mm	right	1:1	0.057	27.50	
831.50	26865	Mid	LTE Band 26 (Cell)	10	16.20	0	Ant 3b	QPSK	25	12	0 mm	right	1:1	0.058	27.60	
831.50	26865	Mid	LTE Band 26 (Cell)	10	16.03	0	Ant 3b	QPSK	1	0	0 mm	left	1:1	0.007	36.61	
831.50	26865	Mid	LTE Band 26 (Cell)	10	16.20	0	Ant 3b	QPSK	25	12	0 mm	left	1:1	0.006	37.45	
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-21
DSI = 1 P_{Limit} Calculations – Antenna 4 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	19.50	0	Ant 4	QPSK	1	0	0 mm	back	1:1	0.624	20.58	19.63
836.50	20525	Mid	LTE Band 5 (Cell)	10	19.55	0	Ant 4	QPSK	25	12	0 mm	back	1:1	0.641	20.51	
836.50	20525	Mid	LTE Band 5 (Cell)	10	19.49	0	Ant 4	QPSK	50	0	0 mm	back	1:1	0.633	20.51	
836.50	20525	Mid	LTE Band 5 (Cell)	10	19.50	0	Ant 4	QPSK	1	0	0 mm	top	1:1	0.604	20.72	
836.50	20525	Mid	LTE Band 5 (Cell)	10	19.55	0	Ant 4	QPSK	25	12	0 mm	top	1:1	0.616	20.69	
836.50	20525	Mid	LTE Band 5 (Cell)	10	19.50	0	Ant 4	QPSK	1	0	0 mm	bottom	1:1	0.017	36.23	
836.50	20525	Mid	LTE Band 5 (Cell)	10	19.55	0	Ant 4	QPSK	25	12	0 mm	bottom	1:1	0.013	37.44	
836.50	20525	Mid	LTE Band 5 (Cell)	10	19.50	0	Ant 4	QPSK	1	0	0 mm	right	1:1	0.009	38.99	
836.50	20525	Mid	LTE Band 5 (Cell)	10	19.55	0	Ant 4	QPSK	25	12	0 mm	right	1:1	0.011	38.17	
836.50	20525	Mid	LTE Band 5 (Cell)	10	19.50	0	Ant 4	QPSK	1	0	0 mm	left	1:1	0.754	19.76	
836.50	20525	Mid	LTE Band 5 (Cell)	10	19.55	0	Ant 4	QPSK	25	12	0 mm	left	1:1	0.734	19.92	
836.50	20525	Mid	LTE Band 5 (Cell)	10	19.49	0	Ant 4	QPSK	50	0	0 mm	left	1:1	0.775	19.63	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						Body 1.6 W/kg (mW/g) averaged over 1 gram										

FCC ID: BCGA2589	 PCTEST Proud to be part of element	PART 0 SAR CHAR REPORT	Approved by: Quality Manager
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Table A-22
DSI = 1 P_{Limit} Calculations – Antenna 3b 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	16.02	0	Ant 3b	QPSK	1	0	0 mm	back	1:1	0.548	17.66	16.59
836.50	20525	Mid	LTE Band 5 (Cell)	10	16.21	0	Ant 3b	QPSK	25	12	0 mm	back	1:1	0.578	17.62	
836.50	20525	Mid	LTE Band 5 (Cell)	10	16.02	0	Ant 3b	QPSK	1	0	0 mm	top	1:1	0.640	16.99	
836.50	20525	Mid	LTE Band 5 (Cell)	10	16.21	0	Ant 3b	QPSK	25	12	0 mm	top	1:1	0.688	16.87	
836.50	20525	Mid	LTE Band 5 (Cell)	10	16.00	0	Ant 3b	QPSK	50	0	0 mm	top	1:1	0.698	16.59	
836.50	20525	Mid	LTE Band 5 (Cell)	10	16.02	0	Ant 3b	QPSK	1	0	0 mm	bottom	1:1	0.002	42.04	
836.50	20525	Mid	LTE Band 5 (Cell)	10	16.21	0	Ant 3b	QPSK	25	12	0 mm	bottom	1:1	0.004	39.22	
836.50	20525	Mid	LTE Band 5 (Cell)	10	16.02	0	Ant 3b	QPSK	1	0	0 mm	right	1:1	0.060	27.27	
836.50	20525	Mid	LTE Band 5 (Cell)	10	16.21	0	Ant 3b	QPSK	25	12	0 mm	right	1:1	0.034	29.93	
836.50	20525	Mid	LTE Band 5 (Cell)	10	16.02	0	Ant 3b	QPSK	1	0	0 mm	left	1:1	0.006	37.27	
836.50	20525	Mid	LTE Band 5 (Cell)	10	16.21	0	Ant 3b	QPSK	25	12	0 mm	left	1:1	0.007	36.79	
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: BCGA2589	 PCTEST Proud to be part of element	PART 0 SAR CHAR REPORT	Approved by: Quality Manager
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Table A-23
DSI = 1 P_{Limit} Calculations – Antenna 4 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	15.19	0	Ant 4	QPSK	1	0	0 mm	back	1:1	0.773	15.34	15.20
1745.00	132322	Mid	LTE Band 66 (AWS)	20	15.22	0	Ant 4	QPSK	1	50	0 mm	back	1:1	0.760	15.44	
1770.00	132572	High	LTE Band 66 (AWS)	20	15.06	0	Ant 4	QPSK	1	0	0 mm	back	1:1	0.763	15.27	
1720.00	132072	Low	LTE Band 66 (AWS)	20	15.25	0	Ant 4	QPSK	50	25	0 mm	back	1:1	0.778	15.37	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	15.26	0	Ant 4	QPSK	50	25	0 mm	back	1:1	0.811	15.20	
1770.00	132572	High	LTE Band 66 (AWS)	20	15.26	0	Ant 4	QPSK	50	25	0 mm	back	1:1	0.766	15.45	
1720.00	132072	Low	LTE Band 66 (AWS)	20	15.21	0	Ant 4	QPSK	100	0	0 mm	back	1:1	0.778	15.33	
1720.00	132072	Low	LTE Band 66 (AWS)	20	15.19	0	Ant 4	QPSK	1	0	0 mm	top	1:1	0.725	15.62	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	15.22	0	Ant 4	QPSK	1	50	0 mm	top	1:1	0.652	16.11	
1770.00	132572	High	LTE Band 66 (AWS)	20	15.06	0	Ant 4	QPSK	1	0	0 mm	top	1:1	0.767	15.24	
1720.00	132072	Low	LTE Band 66 (AWS)	20	15.25	0	Ant 4	QPSK	50	25	0 mm	top	1:1	0.643	16.20	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	15.26	0	Ant 4	QPSK	50	25	0 mm	top	1:1	0.667	16.05	
1770.00	132572	High	LTE Band 66 (AWS)	20	15.26	0	Ant 4	QPSK	50	25	0 mm	top	1:1	0.775	15.40	
1720.00	132072	Low	LTE Band 66 (AWS)	20	15.21	0	Ant 4	QPSK	100	0	0 mm	top	1:1	0.753	15.47	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	15.22	0	Ant 4	QPSK	1	50	0 mm	bottom	1:1	0.000	44.25	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	15.26	0	Ant 4	QPSK	50	25	0 mm	bottom	1:1	0.000	44.29	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	15.22	0	Ant 4	QPSK	1	50	0 mm	right	1:1	0.014	32.79	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	15.26	0	Ant 4	QPSK	50	25	0 mm	right	1:1	0.015	32.53	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	15.22	0	Ant 4	QPSK	1	50	0 mm	left	1:1	0.564	16.74	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	15.26	0	Ant 4	QPSK	50	25	0 mm	left	1:1	0.594	16.55	
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: BCGA2589	 PCTEST Proud to be part of element	PART 0 SAR CHAR REPORT	Approved by: Quality Manager
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Table A-24
DSI = 1 P_{Limit} Calculations – Antenna 3a 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
MHz	Ch.													(W/kg)	[dBm]
1745.00	132322	Mid	LTE Band 66 (AWS)	20	12.72	0	Ant 3a	QPSK	1	0	0 mm	back	1:1	0.341	16.42
1745.00	132322	Mid	LTE Band 66 (AWS)	20	12.74	0	Ant 3a	QPSK	50	25	0 mm	back	1:1	0.351	16.32
1745.00	132322	Mid	LTE Band 66 (AWS)	20	12.72	0	Ant 3a	QPSK	1	0	0 mm	top	1:1	0.243	17.89
1745.00	132322	Mid	LTE Band 66 (AWS)	20	12.74	0	Ant 3a	QPSK	50	25	0 mm	top	1:1	0.248	17.83
1745.00	132322	Mid	LTE Band 66 (AWS)	20	12.72	0	Ant 3a	QPSK	1	0	0 mm	bottom	1:1	0.005	34.76
1745.00	132322	Mid	LTE Band 66 (AWS)	20	12.74	0	Ant 3a	QPSK	50	25	0 mm	bottom	1:1	0.005	34.78
1745.00	132322	Mid	LTE Band 66 (AWS)	20	12.72	0	Ant 3a	QPSK	1	0	0 mm	right	1:1	0.629	13.76
1720.00	132072	Low	LTE Band 66 (AWS)	20	12.68	0	Ant 3a	QPSK	50	25	0 mm	right	1:1	0.654	13.56
1745.00	132322	Mid	LTE Band 66 (AWS)	20	12.74	0	Ant 3a	QPSK	50	25	0 mm	right	1:1	0.639	13.72
1770.00	132572	High	LTE Band 66 (AWS)	20	12.64	0	Ant 3a	QPSK	50	25	0 mm	right	1:1	0.650	13.54
1745.00	132322	Mid	LTE Band 66 (AWS)	20	12.70	0	Ant 3a	QPSK	100	0	0 mm	right	1:1	0.628	13.75
1745.00	132322	Mid	LTE Band 66 (AWS)	20	12.72	0	Ant 3a	QPSK	1	0	0 mm	left	1:1	0.000	41.75
1745.00	132322	Mid	LTE Band 66 (AWS)	20	12.74	0	Ant 3a	QPSK	50	25	0 mm	left	1:1	0.002	38.76
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: BCGA2589	 PCTEST Proud to be part of element	PART 0 SAR CHAR REPORT	Approved by: Quality Manager
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Table A-25
DSI = 1 P_{Limit} Calculations – Antenna 2a 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	13.46	0	Ant 2a	QPSK	1	50	0 mm	back	1:1	0.689	14.11	12.87
1745.00	132322	Mid	LTE Band 66 (AWS)	20	13.06	0	Ant 2a	QPSK	1	0	0 mm	back	1:1	0.762	13.27	
1770.00	132572	High	LTE Band 66 (AWS)	20	13.45	0	Ant 2a	QPSK	1	50	0 mm	back	1:1	0.837	13.25	
1720.00	132072	Low	LTE Band 66 (AWS)	20	13.32	0	Ant 2a	QPSK	50	25	0 mm	back	1:1	0.726	13.74	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	13.47	0	Ant 2a	QPSK	50	25	0 mm	back	1:1	0.783	13.56	
1770.00	132572	High	LTE Band 66 (AWS)	20	13.24	0	Ant 2a	QPSK	50	0	0 mm	back	1:1	0.871	12.87	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	13.32	0	Ant 2a	QPSK	100	0	0 mm	back	1:1	0.806	13.29	
1720.00	132072	Low	LTE Band 66 (AWS)	20	13.46	0	Ant 2a	QPSK	1	50	0 mm	top	1:1	0.000	42.49	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	13.47	0	Ant 2a	QPSK	50	25	0 mm	top	1:1	0.004	36.48	
1720.00	132072	Low	LTE Band 66 (AWS)	20	13.46	0	Ant 2a	QPSK	1	50	0 mm	bottom	1:1	0.217	19.13	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	13.47	0	Ant 2a	QPSK	50	25	0 mm	bottom	1:1	0.265	18.27	
1720.00	132072	Low	LTE Band 66 (AWS)	20	13.46	0	Ant 2a	QPSK	1	50	0 mm	right	1:1	0.575	14.89	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	13.47	0	Ant 2a	QPSK	50	25	0 mm	right	1:1	0.647	14.39	
1720.00	132072	Low	LTE Band 66 (AWS)	20	13.46	0	Ant 2a	QPSK	1	50	0 mm	left	1:1	0.000	42.49	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	13.47	0	Ant 2a	QPSK	50	25	0 mm	left	1:1	0.000	42.50	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						Body 1.6 W/kg (mW/g) averaged over 1 gram										

FCC ID: BCGA2589	 PART 0 SAR CHAR REPORT	Approved by: Quality Manager
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Table A-26
DSI = 1 P_{Limit} Calculations – Antenna 1a 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	14.65	0	Ant 1a	QPSK	1	0	0 mm	back	1:1	0.817	14.56	14.34
1745.00	132322	Mid	LTE Band 66 (AWS)	20	14.86	0	Ant 1a	QPSK	1	99	0 mm	back	1:1	0.806	14.83	
1770.00	132572	High	LTE Band 66 (AWS)	20	14.72	0	Ant 1a	QPSK	1	0	0 mm	back	1:1	0.818	14.62	
1720.00	132072	Low	LTE Band 66 (AWS)	20	14.77	0	Ant 1a	QPSK	50	25	0 mm	back	1:1	0.831	14.60	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	14.88	0	Ant 1a	QPSK	50	25	0 mm	back	1:1	0.843	14.65	
1770.00	132572	High	LTE Band 66 (AWS)	20	14.90	0	Ant 1a	QPSK	50	25	0 mm	back	1:1	0.834	14.72	
1770.00	132572	High	LTE Band 66 (AWS)	20	14.85	0	Ant 1a	QPSK	100	0	0 mm	back	1:1	0.825	14.72	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	14.86	0	Ant 1a	QPSK	1	99	0 mm	top	1:1	0.015	32.13	
1770.00	132572	High	LTE Band 66 (AWS)	20	14.90	0	Ant 1a	QPSK	50	25	0 mm	top	1:1	0.017	31.63	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	14.86	0	Ant 1a	QPSK	1	99	0 mm	bottom	1:1	0.382	18.07	
1770.00	132572	High	LTE Band 66 (AWS)	20	14.90	0	Ant 1a	QPSK	50	25	0 mm	bottom	1:1	0.411	17.79	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	14.86	0	Ant 1a	QPSK	1	99	0 mm	right	1:1	0.004	37.87	
1770.00	132572	High	LTE Band 66 (AWS)	20	14.90	0	Ant 1a	QPSK	50	25	0 mm	right	1:1	0.001	43.93	
1720.00	132072	Low	LTE Band 66 (AWS)	20	14.65	0	Ant 1a	QPSK	1	0	0 mm	left	1:1	0.820	14.54	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	14.86	0	Ant 1a	QPSK	1	99	0 mm	left	1:1	0.863	14.53	
1770.00	132572	High	LTE Band 66 (AWS)	20	14.72	0	Ant 1a	QPSK	1	0	0 mm	left	1:1	0.865	14.38	
1720.00	132072	Low	LTE Band 66 (AWS)	20	14.77	0	Ant 1a	QPSK	50	25	0 mm	left	1:1	0.868	14.42	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	14.88	0	Ant 1a	QPSK	50	25	0 mm	left	1:1	0.891	14.41	
1770.00	132572	High	LTE Band 66 (AWS)	20	14.90	0	Ant 1a	QPSK	50	25	0 mm	left	1:1	0.911	14.34	
1770.00	132572	High	LTE Band 66 (AWS)	20	14.85	0	Ant 1a	QPSK	100	0	0 mm	left	1:1	0.899	14.34	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						Body 1.6 W/kg (mW/g) averaged over 1 gram										

FCC ID: BCGA2589	 PCTEST Proud to be part of element	PART 0 SAR CHAR REPORT	Approved by: Quality Manager
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Table A-27
DSI = 1 P_{Limit} Calculations – Antenna 4 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
MHz	Ch.													(W/kg)	[dBm]
1860.00	26140	Low	LTE Band 25 (PCS)	20	14.05	0	Ant 4	QPSK	1	99	0 mm	back	1:1	0.656	14.91
1882.50	26365	Mid	LTE Band 25 (PCS)	20	14.06	0	Ant 4	QPSK	1	0	0 mm	back	1:1	0.697	14.66
1905.00	26590	High	LTE Band 25 (PCS)	20	14.03	0	Ant 4	QPSK	1	50	0 mm	back	1:1	0.639	15.01
1860.00	26140	Low	LTE Band 25 (PCS)	20	14.13	0	Ant 4	QPSK	50	50	0 mm	back	1:1	0.552	15.74
1882.50	26365	Mid	LTE Band 25 (PCS)	20	14.17	0	Ant 4	QPSK	50	50	0 mm	back	1:1	0.700	14.75
1905.00	26590	High	LTE Band 25 (PCS)	20	14.09	0	Ant 4	QPSK	50	25	0 mm	back	1:1	0.573	15.54
1882.50	26365	Mid	LTE Band 25 (PCS)	20	14.04	0	Ant 4	QPSK	100	0	0 mm	back	1:1	0.572	15.50
1882.50	26365	Mid	LTE Band 25 (PCS)	20	14.06	0	Ant 4	QPSK	1	0	0 mm	top	1:1	0.512	16.00
1882.50	26365	Mid	LTE Band 25 (PCS)	20	14.17	0	Ant 4	QPSK	50	50	0 mm	top	1:1	0.520	16.04
1882.50	26365	Mid	LTE Band 25 (PCS)	20	14.06	0	Ant 4	QPSK	1	0	0 mm	bottom	1:1	0.000	43.09
1882.50	26365	Mid	LTE Band 25 (PCS)	20	14.17	0	Ant 4	QPSK	50	50	0 mm	bottom	1:1	0.000	43.20
1882.50	26365	Mid	LTE Band 25 (PCS)	20	14.06	0	Ant 4	QPSK	1	0	0 mm	right	1:1	0.009	33.55
1882.50	26365	Mid	LTE Band 25 (PCS)	20	14.17	0	Ant 4	QPSK	50	50	0 mm	right	1:1	0.010	33.20
1882.50	26365	Mid	LTE Band 25 (PCS)	20	14.06	0	Ant 4	QPSK	1	0	0 mm	left	1:1	0.249	19.13
1882.50	26365	Mid	LTE Band 25 (PCS)	20	14.17	0	Ant 4	QPSK	50	50	0 mm	left	1:1	0.239	19.42
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: BCGA2589	 Proud to be part of 	PART 0 SAR CHAR REPORT	Approved by: Quality Manager
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Table A-28
DSI = 1 P_{Limit} Calculations – Antenna 3a 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	12.47	0	Ant 3a	QPSK	1	0	0 mm	back	1:1	0.309	16.60	13.07
1860.00	26140	Low	LTE Band 25 (PCS)	20	12.54	0	Ant 3a	QPSK	50	0	0 mm	back	1:1	0.311	16.64	
1860.00	26140	Low	LTE Band 25 (PCS)	20	12.47	0	Ant 3a	QPSK	1	0	0 mm	top	1:1	0.222	18.04	
1860.00	26140	Low	LTE Band 25 (PCS)	20	12.54	0	Ant 3a	QPSK	50	0	0 mm	top	1:1	0.222	18.11	
1860.00	26140	Low	LTE Band 25 (PCS)	20	12.47	0	Ant 3a	QPSK	1	0	0 mm	bottom	1:1	0.000	41.50	
1860.00	26140	Low	LTE Band 25 (PCS)	20	12.54	0	Ant 3a	QPSK	50	0	0 mm	bottom	1:1	0.002	38.56	
1860.00	26140	Low	LTE Band 25 (PCS)	20	12.47	0	Ant 3a	QPSK	1	0	0 mm	right	1:1	0.653	13.35	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	12.45	0	Ant 3a	QPSK	1	0	0 mm	right	1:1	0.629	13.49	
1905.00	26590	High	LTE Band 25 (PCS)	20	12.07	0	Ant 3a	QPSK	1	0	0 mm	right	1:1	0.636	13.07	
1860.00	26140	Low	LTE Band 25 (PCS)	20	12.54	0	Ant 3a	QPSK	50	0	0 mm	right	1:1	0.657	13.40	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	12.51	0	Ant 3a	QPSK	50	25	0 mm	right	1:1	0.649	13.42	
1905.00	26590	High	LTE Band 25 (PCS)	20	12.40	0	Ant 3a	QPSK	50	25	0 mm	right	1:1	0.659	13.24	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	12.43	0	Ant 3a	QPSK	100	0	0 mm	right	1:1	0.647	13.35	
1860.00	26140	Low	LTE Band 25 (PCS)	20	12.47	0	Ant 3a	QPSK	1	0	0 mm	left	1:1	0.002	38.49	
1860.00	26140	Low	LTE Band 25 (PCS)	20	12.54	0	Ant 3a	QPSK	50	0	0 mm	left	1:1	0.003	36.80	
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 – Antenna 2a 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 [dBm]
MHz	Ch.													(W/kg)	[dBm]	
1860.00	26140	Low	LTE Band 25 (PCS)	20	12.63	0	Ant 2a	QPSK	1	50	0 mm	back	1:1	0.761	12.85	12.80
1882.50	26365	Mid	LTE Band 25 (PCS)	20	12.85	0	Ant 2a	QPSK	1	50	0 mm	back	1:1	0.751	13.12	
1905.00	26590	High	LTE Band 25 (PCS)	20	12.79	0	Ant 2a	QPSK	1	50	0 mm	back	1:1	0.728	13.20	
1860.00	26140	Low	LTE Band 25 (PCS)	20	12.90	0	Ant 2a	QPSK	50	0	0 mm	back	1:1	0.819	12.80	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	12.86	0	Ant 2a	QPSK	50	25	0 mm	back	1:1	0.773	13.01	
1905.00	26590	High	LTE Band 25 (PCS)	20	12.97	0	Ant 2a	QPSK	50	25	0 mm	back	1:1	0.755	13.22	
1905.00	26590	High	LTE Band 25 (PCS)	20	12.84	0	Ant 2a	QPSK	100	0	0 mm	back	1:1	0.765	13.03	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	12.85	0	Ant 2a	QPSK	1	50	0 mm	top	1:1	0.011	31.47	
1905.00	26590	High	LTE Band 25 (PCS)	20	12.97	0	Ant 2a	QPSK	50	25	0 mm	top	1:1	0.013	30.86	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	12.85	0	Ant 2a	QPSK	1	50	0 mm	bottom	1:1	0.373	16.16	
1905.00	26590	High	LTE Band 25 (PCS)	20	12.97	0	Ant 2a	QPSK	50	25	0 mm	bottom	1:1	0.409	15.88	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	12.85	0	Ant 2a	QPSK	1	50	0 mm	right	1:1	0.506	14.84	
1905.00	26590	High	LTE Band 25 (PCS)	20	12.97	0	Ant 2a	QPSK	50	25	0 mm	right	1:1	0.508	14.94	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	12.85	0	Ant 2a	QPSK	1	50	0 mm	left	1:1	0.004	35.86	
1905.00	26590	High	LTE Band 25 (PCS)	20	12.97	0	Ant 2a	QPSK	50	25	0 mm	left	1:1	0.001	42.00	
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: BCGA2589	 PCTEST Proud to be part of element	PART 0 SAR CHAR REPORT	Approved by: Quality Manager
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Table A-30
DSI = 1 P_{Limit} Calculations – Antenna 1a 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 [dBm]
MHz	Ch.													(W/kg)	[dBm]	
1860.00	26140	Low	LTE Band 25 (PCS)	20	12.92	0	Ant 1a	QPSK	1	50	0 mm	back	1:1	0.550	14.55	13.97
1882.50	26365	Mid	LTE Band 25 (PCS)	20	13.32	0	Ant 1a	QPSK	1	50	0 mm	back	1:1	0.649	14.23	
1905.00	26590	High	LTE Band 25 (PCS)	20	13.27	0	Ant 1a	QPSK	1	99	0 mm	back	1:1	0.520	15.14	
1860.00	26140	Low	LTE Band 25 (PCS)	20	13.29	0	Ant 1a	QPSK	50	50	0 mm	back	1:1	0.671	14.05	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	13.39	0	Ant 1a	QPSK	50	25	0 mm	back	1:1	0.666	14.19	
1905.00	26590	High	LTE Band 25 (PCS)	20	13.37	0	Ant 1a	QPSK	50	50	0 mm	back	1:1	0.653	14.25	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	13.30	0	Ant 1a	QPSK	100	0	0 mm	back	1:1	0.655	14.17	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	13.32	0	Ant 1a	QPSK	1	50	0 mm	top	1:1	0.015	30.59	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	13.39	0	Ant 1a	QPSK	50	25	0 mm	top	1:1	0.014	30.96	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	13.32	0	Ant 1a	QPSK	1	50	0 mm	bottom	1:1	0.285	17.80	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	13.39	0	Ant 1a	QPSK	50	25	0 mm	bottom	1:1	0.300	17.65	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	13.32	0	Ant 1a	QPSK	1	50	0 mm	right	1:1	0.006	34.57	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	13.39	0	Ant 1a	QPSK	50	25	0 mm	right	1:1	0.006	34.64	
1860.00	26140	Low	LTE Band 25 (PCS)	20	12.92	0	Ant 1a	QPSK	1	50	0 mm	left	1:1	0.628	13.97	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	13.32	0	Ant 1a	QPSK	1	50	0 mm	left	1:1	0.671	14.08	
1905.00	26590	High	LTE Band 25 (PCS)	20	13.27	0	Ant 1a	QPSK	1	99	0 mm	left	1:1	0.670	14.04	
1860.00	26140	Low	LTE Band 25 (PCS)	20	13.29	0	Ant 1a	QPSK	50	50	0 mm	left	1:1	0.658	14.14	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	13.39	0	Ant 1a	QPSK	50	25	0 mm	left	1:1	0.670	14.16	
1905.00	26590	High	LTE Band 25 (PCS)	20	13.37	0	Ant 1a	QPSK	50	50	0 mm	left	1:1	0.693	13.99	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	13.30	0	Ant 1a	QPSK	100	0	0 mm	left	1:1	0.673	14.05	
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 – Antenna 4 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	13.31	0	Ant 4	QPSK	1	0	0 mm	back	1:1	0.687	13.97	13.45
2310.00	27710	Mid	LTE Band 30	10	13.54	0	Ant 4	QPSK	25	25	0 mm	back	1:1	0.722	13.99	
2310.00	27710	Mid	LTE Band 30	10	13.30	0	Ant 4	QPSK	50	0	0 mm	back	1:1	0.707	13.84	
2310.00	27710	Mid	LTE Band 30	10	13.31	0	Ant 4	QPSK	1	0	0 mm	top	1:1	0.407	16.24	
2310.00	27710	Mid	LTE Band 30	10	13.54	0	Ant 4	QPSK	25	25	0 mm	top	1:1	0.421	16.33	
2310.00	27710	Mid	LTE Band 30	10	13.31	0	Ant 4	QPSK	1	0	0 mm	bottom	1:1	0.009	32.80	
2310.00	27710	Mid	LTE Band 30	10	13.54	0	Ant 4	QPSK	25	25	0 mm	bottom	1:1	0.014	31.11	
2310.00	27710	Mid	LTE Band 30	10	13.31	0	Ant 4	QPSK	1	0	0 mm	right	1:1	0.006	34.56	
2310.00	27710	Mid	LTE Band 30	10	13.54	0	Ant 4	QPSK	25	25	0 mm	right	1:1	0.006	34.79	
2310.00	27710	Mid	LTE Band 30	10	13.31	0	Ant 4	QPSK	1	0	0 mm	left	1:1	0.736	13.67	
2310.00	27710	Mid	LTE Band 30	10	13.54	0	Ant 4	QPSK	25	25	0 mm	left	1:1	0.775	13.68	
2310.00	27710	Mid	LTE Band 30	10	13.30	0	Ant 4	QPSK	50	0	0 mm	left	1:1	0.773	13.45	
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-32
DSI = 1 P_{Limit} Calculations – Antenna 3a 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	11.10	0	Ant 3a	QPSK	1	49	0 mm	back	1:1	0.253	16.10	11.72
2310.00	27710	Mid	LTE Band 30	10	11.24	0	Ant 3a	QPSK	25	25	0 mm	back	1:1	0.266	16.02	
2310.00	27710	Mid	LTE Band 30	10	11.10	0	Ant 3a	QPSK	1	49	0 mm	top	1:1	0.170	17.83	
2310.00	27710	Mid	LTE Band 30	10	11.24	0	Ant 3a	QPSK	25	25	0 mm	top	1:1	0.182	17.67	
2310.00	27710	Mid	LTE Band 30	10	11.10	0	Ant 3a	QPSK	1	49	0 mm	bottom	1:1	0.004	34.11	
2310.00	27710	Mid	LTE Band 30	10	11.24	0	Ant 3a	QPSK	25	25	0 mm	bottom	1:1	0.004	34.25	
2310.00	27710	Mid	LTE Band 30	10	11.10	0	Ant 3a	QPSK	1	49	0 mm	right	1:1	0.643	12.05	
2310.00	27710	Mid	LTE Band 30	10	11.24	0	Ant 3a	QPSK	25	25	0 mm	right	1:1	0.669	12.02	
2310.00	27710	Mid	LTE Band 30	10	10.90	0	Ant 3a	QPSK	50	0	0 mm	right	1:1	0.663	11.72	
2310.00	27710	Mid	LTE Band 30	10	11.10	0	Ant 3a	QPSK	1	49	0 mm	left	1:1	0.003	35.36	
2310.00	27710	Mid	LTE Band 30	10	11.24	0	Ant 3a	QPSK	25	25	0 mm	left	1:1	0.003	35.50	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						Body 1.6 W/kg (mW/g) averaged over 1 gram										

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Table A-33
DSI = 1 P_{Limit} Calculations – Antenna 2a 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	10.81	0	Ant 2a	QPSK	1	0	0 mm	back	1:1	0.581	12.20	11.87
2310.00	27710	Mid	LTE Band 30	10	10.87	0	Ant 2a	QPSK	25	0	0 mm	back	1:1	0.591	12.19	
2310.00	27710	Mid	LTE Band 30	10	10.65	0	Ant 2a	QPSK	50	0	0 mm	back	1:1	0.604	11.87	
2310.00	27710	Mid	LTE Band 30	10	10.81	0	Ant 2a	QPSK	1	0	0 mm	top	1:1	0.003	35.07	
2310.00	27710	Mid	LTE Band 30	10	10.87	0	Ant 2a	QPSK	25	0	0 mm	top	1:1	0.002	36.89	
2310.00	27710	Mid	LTE Band 30	10	10.81	0	Ant 2a	QPSK	1	0	0 mm	bottom	1:1	0.208	16.66	
2310.00	27710	Mid	LTE Band 30	10	10.87	0	Ant 2a	QPSK	25	0	0 mm	bottom	1:1	0.211	16.66	
2310.00	27710	Mid	LTE Band 30	10	10.81	0	Ant 2a	QPSK	1	0	0 mm	right	1:1	0.328	14.68	
2310.00	27710	Mid	LTE Band 30	10	10.87	0	Ant 2a	QPSK	25	0	0 mm	right	1:1	0.330	14.72	
2310.00	27710	Mid	LTE Band 30	10	10.81	0	Ant 2a	QPSK	1	0	0 mm	left	1:1	0.000	39.84	
2310.00	27710	Mid	LTE Band 30	10	10.87	0	Ant 2a	QPSK	25	0	0 mm	left	1:1	0.000	39.90	
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 – Antenna 1a 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	12.42	0	Ant 1a	QPSK	1	25	0 mm	back	1:1	0.599	13.68	13.30
2310.00	27710	Mid	LTE Band 30	10	12.46	0	Ant 1a	QPSK	25	25	0 mm	back	1:1	0.638	13.44	
2310.00	27710	Mid	LTE Band 30	10	12.37	0	Ant 1a	QPSK	50	0	0 mm	back	1:1	0.646	13.30	
2310.00	27710	Mid	LTE Band 30	10	12.42	0	Ant 1a	QPSK	1	25	0 mm	top	1:1	0.017	29.15	
2310.00	27710	Mid	LTE Band 30	10	12.46	0	Ant 1a	QPSK	25	25	0 mm	top	1:1	0.017	29.19	
2310.00	27710	Mid	LTE Band 30	10	12.42	0	Ant 1a	QPSK	1	25	0 mm	bottom	1:1	0.295	16.75	
2310.00	27710	Mid	LTE Band 30	10	12.46	0	Ant 1a	QPSK	25	25	0 mm	bottom	1:1	0.304	16.66	
2310.00	27710	Mid	LTE Band 30	10	12.42	0	Ant 1a	QPSK	1	25	0 mm	right	1:1	0.000	41.45	
2310.00	27710	Mid	LTE Band 30	10	12.46	0	Ant 1a	QPSK	25	25	0 mm	right	1:1	0.002	38.48	
2310.00	27710	Mid	LTE Band 30	10	12.42	0	Ant 1a	QPSK	1	25	0 mm	left	1:1	0.573	13.87	
2310.00	27710	Mid	LTE Band 30	10	12.46	0	Ant 1a	QPSK	25	25	0 mm	left	1:1	0.610	13.64	
2310.00	27710	Mid	LTE Band 30	10	12.37	0	Ant 1a	QPSK	50	0	0 mm	left	1:1	0.624	13.45	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						Body 1.6 W/kg (mW/g) averaged over 1 gram										

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Table A-35
DSI = 1 P_{Limit} Calculations – Antenna 4 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 [dBm]
MHz	Ch.													(W/kg)	[dBm]	
2510.00	20850	Low	LTE Band 7	20	13.45	0	Ant 4	QPSK	1	50	0 mm	back	1:1	0.802	13.44	13.44
2535.00	21100	Mid	LTE Band 7	20	13.41	0	Ant 4	QPSK	1	50	0 mm	back	1:1	0.746	13.71	
2560.00	21350	High	LTE Band 7	20	13.40	0	Ant 4	QPSK	1	50	0 mm	back	1:1	0.718	13.87	
2510.00	20850	Low	LTE Band 7	20	13.48	0	Ant 4	QPSK	50	25	0 mm	back	1:1	0.806	13.45	
2535.00	21100	Mid	LTE Band 7	20	13.25	0	Ant 4	QPSK	50	25	0 mm	back	1:1	0.763	13.46	
2560.00	21350	High	LTE Band 7	20	13.22	0	Ant 4	QPSK	50	25	0 mm	back	1:1	0.750	13.50	
2510.00	20850	Low	LTE Band 7	20	13.33	0	Ant 4	QPSK	100	0	0 mm	back	1:1	0.727	13.75	
2510.00	20850	Low	LTE Band 7	20	13.45	0	Ant 4	QPSK	1	50	0 mm	top	1:1	0.387	16.60	
2510.00	20850	Low	LTE Band 7	20	13.48	0	Ant 4	QPSK	50	25	0 mm	top	1:1	0.421	16.27	
2510.00	20850	Low	LTE Band 7	20	13.45	0	Ant 4	QPSK	1	50	0 mm	bottom	1:1	0.000	42.48	
2510.00	20850	Low	LTE Band 7	20	13.48	0	Ant 4	QPSK	50	25	0 mm	bottom	1:1	0.010	32.51	
2510.00	20850	Low	LTE Band 7	20	13.45	0	Ant 4	QPSK	1	50	0 mm	right	1:1	0.018	29.93	
2510.00	20850	Low	LTE Band 7	20	13.48	0	Ant 4	QPSK	50	25	0 mm	right	1:1	0.018	29.96	
2510.00	20850	Low	LTE Band 7	20	13.45	0	Ant 4	QPSK	1	50	0 mm	left	1:1	0.741	13.78	
2535.00	21100	Mid	LTE Band 7	20	13.41	0	Ant 4	QPSK	1	50	0 mm	left	1:1	0.717	13.89	
2560.00	21350	High	LTE Band 7	20	13.40	0	Ant 4	QPSK	1	50	0 mm	left	1:1	0.707	13.94	
2510.00	20850	Low	LTE Band 7	20	13.48	0	Ant 4	QPSK	50	25	0 mm	left	1:1	0.763	13.69	
2535.00	21100	Mid	LTE Band 7	20	13.25	0	Ant 4	QPSK	50	25	0 mm	left	1:1	0.739	13.59	
2560.00	21350	High	LTE Band 7	20	13.22	0	Ant 4	QPSK	50	25	0 mm	left	1:1	0.735	13.59	
2510.00	20850	Low	LTE Band 7	20	13.33	0	Ant 4	QPSK	100	0	0 mm	left	1:1	0.753	13.59	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						Body 1.6 W/kg (mW/g) averaged over 1 gram										

13.44

FCC ID: BCGA2589	 PCTEST Proud to be part of element	PART 0 SAR CHAR REPORT	Approved by: Quality Manager
Test Dates: 12/07/2021 – 01/03/2022	DUT Type: Tablet Device		APPENDIX A: Page 25 of 54

Table A-36
DSI = 1 P_{Limit} Calculations – Antenna 3a 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	11.11	0	Ant 3a	QPSK	1	50	0 mm	back	1:1	0.431	13.80	11.56
2535.00	21100	Mid	LTE Band 7	20	11.12	0	Ant 3a	QPSK	50	25	0 mm	back	1:1	0.450	13.62	
2535.00	21100	Mid	LTE Band 7	20	11.11	0	Ant 3a	QPSK	1	50	0 mm	top	1:1	0.304	15.31	
2535.00	21100	Mid	LTE Band 7	20	11.12	0	Ant 3a	QPSK	50	25	0 mm	top	1:1	0.313	15.20	
2535.00	21100	Mid	LTE Band 7	20	11.11	0	Ant 3a	QPSK	1	50	0 mm	bottom	1:1	0.005	33.15	
2535.00	21100	Mid	LTE Band 7	20	11.12	0	Ant 3a	QPSK	50	25	0 mm	bottom	1:1	0.005	33.16	
2510.00	20850	Low	LTE Band 7	20	11.00	0	Ant 3a	QPSK	1	99	0 mm	right	1:1	0.679	11.71	
2535.00	21100	Mid	LTE Band 7	20	11.11	0	Ant 3a	QPSK	1	50	0 mm	right	1:1	0.657	11.97	
2560.00	21350	High	LTE Band 7	20	10.82	0	Ant 3a	QPSK	1	0	0 mm	right	1:1	0.670	11.59	
2510.00	20850	Low	LTE Band 7	20	11.02	0	Ant 3a	QPSK	50	25	0 mm	right	1:1	0.707	11.56	
2535.00	21100	Mid	LTE Band 7	20	11.12	0	Ant 3a	QPSK	50	25	0 mm	right	1:1	0.684	11.80	
2560.00	21350	High	LTE Band 7	20	11.11	0	Ant 3a	QPSK	50	25	0 mm	right	1:1	0.686	11.78	
2535.00	21100	Mid	LTE Band 7	20	11.02	0	Ant 3a	QPSK	100	0	0 mm	right	1:1	0.694	11.64	
2535.00	21100	Mid	LTE Band 7	20	11.11	0	Ant 3a	QPSK	1	50	0 mm	left	1:1	0.012	29.35	
2535.00	21100	Mid	LTE Band 7	20	11.12	0	Ant 3a	QPSK	50	25	0 mm	left	1:1	0.012	29.36	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						Body 1.6 W/kg (mW/g) averaged over 1 gram										

11.56

FCC ID: BCGA2589	 PART 0 SAR CHAR REPORT	Approved by: Quality Manager
Test Dates: 12/07/2021 – 01/03/2022	DUT Type: Tablet Device	APPENDIX A: Page 26 of 54

Table A-37
DSI = 1 P_{Limit} Calculations – Antenna 2a 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	12.70	0	Ant 2a	QPSK	1	50	0 mm	back	1:1	0.730	13.10	13.10
2535.00	21100	Mid	LTE Band 7	20	12.95	0	Ant 2a	QPSK	1	50	0 mm	back	1:1	0.692	13.58	
2560.00	21350	High	LTE Band 7	20	13.05	0	Ant 2a	QPSK	1	50	0 mm	back	1:1	0.693	13.67	
2510.00	20850	Low	LTE Band 7	20	12.87	0	Ant 2a	QPSK	50	0	0 mm	back	1:1	0.751	13.14	
2535.00	21100	Mid	LTE Band 7	20	13.04	0	Ant 2a	QPSK	50	25	0 mm	back	1:1	0.717	13.52	
2560.00	21350	High	LTE Band 7	20	13.11	0	Ant 2a	QPSK	50	25	0 mm	back	1:1	0.717	13.59	
2560.00	21350	High	LTE Band 7	20	13.04	0	Ant 2a	QPSK	100	0	0 mm	back	1:1	0.719	13.50	
2560.00	21350	High	LTE Band 7	20	13.05	0	Ant 2a	QPSK	1	50	0 mm	top	1:1	0.020	29.07	
2560.00	21350	High	LTE Band 7	20	13.11	0	Ant 2a	QPSK	50	25	0 mm	top	1:1	0.021	28.92	
2560.00	21350	High	LTE Band 7	20	13.05	0	Ant 2a	QPSK	1	50	0 mm	bottom	1:1	0.440	15.65	
2560.00	21350	High	LTE Band 7	20	13.11	0	Ant 2a	QPSK	50	25	0 mm	bottom	1:1	0.459	15.52	
2560.00	21350	High	LTE Band 7	20	13.05	0	Ant 2a	QPSK	1	50	0 mm	right	1:1	0.452	15.53	
2560.00	21350	High	LTE Band 7	20	13.11	0	Ant 2a	QPSK	50	25	0 mm	right	1:1	0.466	15.46	
2560.00	21350	High	LTE Band 7	20	13.05	0	Ant 2a	QPSK	1	50	0 mm	left	1:1	0.003	37.31	
2560.00	21350	High	LTE Band 7	20	13.11	0	Ant 2a	QPSK	50	25	0 mm	left	1:1	0.004	36.12	
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: BCGA2589	 Proud to be part of 	PART 0 SAR CHAR REPORT	Approved by: Quality Manager
Test Dates: 12/07/2021 – 01/03/2022	DUT Type: Tablet Device		APPENDIX A: Page 27 of 54

Table A-38
DSI = 1 P_{Limit} Calculations – Antenna 1a 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 [dBm]
MHz	Ch.													(W/kg)	[dBm]	
2510.00	20850	Low	LTE Band 7	20	12.45	0	Ant 1a	QPSK	1	99	0 mm	back	1:1	0.871	12.08	12.08
2535.00	21100	Mid	LTE Band 7	20	12.36	0	Ant 1a	QPSK	1	99	0 mm	back	1:1	0.662	13.18	
2560.00	21350	High	LTE Band 7	20	12.47	0	Ant 1a	QPSK	1	99	0 mm	back	1:1	0.678	13.19	
2510.00	20850	Low	LTE Band 7	20	12.44	0	Ant 1a	QPSK	50	25	0 mm	back	1:1	0.741	12.77	
2535.00	21100	Mid	LTE Band 7	20	12.48	0	Ant 1a	QPSK	50	25	0 mm	back	1:1	0.654	13.36	
2560.00	21350	High	LTE Band 7	20	12.54	0	Ant 1a	QPSK	50	25	0 mm	back	1:1	0.697	13.14	
2560.00	21350	High	LTE Band 7	20	12.36	0	Ant 1a	QPSK	100	0	0 mm	back	1:1	0.676	13.09	
2560.00	21350	High	LTE Band 7	20	12.47	0	Ant 1a	QPSK	1	99	0 mm	top	1:1	0.006	33.72	
2560.00	21350	High	LTE Band 7	20	12.54	0	Ant 1a	QPSK	50	25	0 mm	top	1:1	0.005	34.58	
2560.00	21350	High	LTE Band 7	20	12.47	0	Ant 1a	QPSK	1	99	0 mm	bottom	1:1	0.331	16.30	
2560.00	21350	High	LTE Band 7	20	12.54	0	Ant 1a	QPSK	50	25	0 mm	bottom	1:1	0.333	16.35	
2560.00	21350	High	LTE Band 7	20	12.47	0	Ant 1a	QPSK	1	99	0 mm	right	1:1	0.007	33.05	
2560.00	21350	High	LTE Band 7	20	12.54	0	Ant 1a	QPSK	50	25	0 mm	right	1:1	0.010	31.57	
2560.00	21350	High	LTE Band 7	20	12.47	0	Ant 1a	QPSK	1	99	0 mm	left	1:1	0.575	13.90	
2560.00	21350	High	LTE Band 7	20	12.54	0	Ant 1a	QPSK	50	25	0 mm	left	1:1	0.572	14.00	
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: BCGA2589	 PART 0 SAR CHAR REPORT	Approved by: Quality Manager
Test Dates: 12/07/2021 – 01/03/2022	DUT Type: Tablet Device	APPENDIX A: Page 28 of 54

Table A-39
DSI = 1 P_{Limit} Calculations – Antenna 4 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	15.02	0	Ant 4	QPSK	1	0	0 mm	back	1:1.58	0.433	15.70	13.41
2549.50	40185	Low-Mid	LTE Band 41	20	15.00	0	Ant 4	QPSK	1	0	0 mm	back	1:1.58	0.475	15.28	
2593.00	40620	Mid	LTE Band 41	20	15.20	0	Ant 4	QPSK	1	0	0 mm	back	1:1.58	0.731	13.61	
2636.50	41055	Mid-High	LTE Band 41	20	15.14	0	Ant 4	QPSK	1	0	0 mm	back	1:1.58	0.701	13.73	
2680.00	41490	High	LTE Band 41	20	15.13	0	Ant 4	QPSK	1	0	0 mm	back	1:1.58	0.737	13.50	
2506.00	39750	Low	LTE Band 41	20	15.18	0	Ant 4	QPSK	50	25	0 mm	back	1:1.58	0.522	15.05	
2549.50	40185	Low-Mid	LTE Band 41	20	15.16	0	Ant 4	QPSK	50	25	0 mm	back	1:1.58	0.580	14.57	
2593.00	40620	Mid	LTE Band 41	20	15.26	0	Ant 4	QPSK	50	25	0 mm	back	1:1.58	0.740	13.61	
2636.50	41055	Mid-High	LTE Band 41	20	15.24	0	Ant 4	QPSK	50	25	0 mm	back	1:1.58	0.701	13.83	
2680.00	41490	High	LTE Band 41	20	15.20	0	Ant 4	QPSK	50	25	0 mm	back	1:1.58	0.669	13.99	
2636.50	41055	Mid-High	LTE Band 41	20	15.19	0	Ant 4	QPSK	100	0	0 mm	back	1:1.58	0.702	13.77	
2506.00	39750	Low	LTE Band 41	20	15.02	0	Ant 4	QPSK	1	0	0 mm	top	1:1.58	0.459	15.45	
2549.50	40185	Low-Mid	LTE Band 41	20	15.00	0	Ant 4	QPSK	1	0	0 mm	top	1:1.58	0.493	15.12	
2593.00	40620	Mid	LTE Band 41	20	15.20	0	Ant 4	QPSK	1	0	0 mm	top	1:1.58	0.536	14.95	
2636.50	41055	Mid-High	LTE Band 41	20	15.14	0	Ant 4	QPSK	1	0	0 mm	top	1:1.58	0.522	15.01	
2680.00	41490	High	LTE Band 41	20	15.13	0	Ant 4	QPSK	1	0	0 mm	top	1:1.58	0.508	15.12	
2506.00	39750	Low	LTE Band 41	20	15.18	0	Ant 4	QPSK	50	25	0 mm	top	1:1.58	0.464	15.56	
2549.50	40185	Low-Mid	LTE Band 41	20	15.16	0	Ant 4	QPSK	50	25	0 mm	top	1:1.58	0.526	14.99	
2593.00	40620	Mid	LTE Band 41	20	15.26	0	Ant 4	QPSK	50	25	0 mm	top	1:1.58	0.543	14.96	
2636.50	41055	Mid-High	LTE Band 41	20	15.24	0	Ant 4	QPSK	50	25	0 mm	top	1:1.58	0.524	15.09	
2680.00	41490	High	LTE Band 41	20	15.20	0	Ant 4	QPSK	50	25	0 mm	top	1:1.58	0.495	15.30	
2636.50	41055	Mid-High	LTE Band 41	20	15.19	0	Ant 4	QPSK	100	0	0 mm	top	1:1.58	0.525	15.03	
2593.00	40620	Mid	LTE Band 41	20	15.20	0	Ant 4	QPSK	1	0	0 mm	bottom	1:1.58	0.006	34.46	
2593.00	40620	Mid	LTE Band 41	20	15.26	0	Ant 4	QPSK	50	25	0 mm	bottom	1:1.58	0.009	32.76	
2593.00	40620	Mid	LTE Band 41	20	15.20	0	Ant 4	QPSK	1	0	0 mm	right	1:1.58	0.015	30.48	
2593.00	40620	Mid	LTE Band 41	20	15.26	0	Ant 4	QPSK	50	25	0 mm	right	1:1.58	0.018	29.75	
2506.00	39750	Low	LTE Band 41	20	15.02	0	Ant 4	QPSK	1	0	0 mm	left	1:1.58	0.378	16.29	
2549.50	40185	Low-Mid	LTE Band 41	20	15.00	0	Ant 4	QPSK	1	0	0 mm	left	1:1.58	0.527	14.83	
2593.00	40620	Mid	LTE Band 41	20	15.20	0	Ant 4	QPSK	1	0	0 mm	left	1:1.58	0.642	14.17	
2636.50	41055	Mid-High	LTE Band 41	20	15.14	0	Ant 4	QPSK	1	0	0 mm	left	1:1.58	0.679	13.87	
2680.00	41490	High	LTE Band 41	20	15.13	0	Ant 4	QPSK	1	0	0 mm	left	1:1.58	0.753	13.41	
2506.00	39750	Low	LTE Band 41	20	15.18	0	Ant 4	QPSK	50	25	0 mm	left	1:1.58	0.414	16.05	
2549.50	40185	Low-Mid	LTE Band 41	20	15.16	0	Ant 4	QPSK	50	25	0 mm	left	1:1.58	0.555	14.76	
2593.00	40620	Mid	LTE Band 41	20	15.26	0	Ant 4	QPSK	50	25	0 mm	left	1:1.58	0.657	14.13	
2636.50	41055	Mid-High	LTE Band 41	20	15.24	0	Ant 4	QPSK	50	25	0 mm	left	1:1.58	0.703	13.82	
2680.00	41490	High	LTE Band 41	20	15.20	0	Ant 4	QPSK	50	25	0 mm	left	1:1.58	0.735	15.57	
2636.50	41055	Mid-High	LTE Band 41	20	15.19	0	Ant 4	QPSK	100	0	0 mm	left	1:1.58	0.699	15.78	
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: BCGA2589	 PCTEST Proud to be part of element	PART 0 SAR CHAR REPORT	Approved by: Quality Manager
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Table A-40
DSI = 1 P_{Limit} Calculations – Antenna 3a 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 [dBm]
MHz	Ch.													(W/kg)	[dBm]	
2506.00	39750	Low	LTE Band 41	20	13.60	0	Ant 3a	QPSK	1	99	0 mm	back	1:1.58	0.447	14.14	12.14
2506.00	39750	Low	LTE Band 41	20	13.68	0	Ant 3a	QPSK	50	25	0 mm	back	1:1.58	0.448	14.21	
2506.00	39750	Low	LTE Band 41	20	13.60	0	Ant 3a	QPSK	1	99	0 mm	top	1:1.58	0.325	15.53	
2506.00	39750	Low	LTE Band 41	20	13.68	0	Ant 3a	QPSK	50	25	0 mm	top	1:1.58	0.323	15.63	
2506.00	39750	Low	LTE Band 41	20	13.60	0	Ant 3a	QPSK	1	99	0 mm	bottom	1:1.58	0.005	33.66	
2506.00	39750	Low	LTE Band 41	20	13.68	0	Ant 3a	QPSK	50	25	0 mm	bottom	1:1.58	0.006	32.94	
2506.00	39750	Low	LTE Band 41	20	13.60	0	Ant 3a	QPSK	1	99	0 mm	right	1:1.58	0.709	12.14	
2549.50	40185	Low-Mid	LTE Band 41	20	13.38	0	Ant 3a	QPSK	1	0	0 mm	right	1:1.58	0.638	12.38	
2593.00	40620	Mid	LTE Band 41	20	13.37	0	Ant 3a	QPSK	1	0	0 mm	right	1:1.58	0.604	12.60	
2636.50	41055	Mid-High	LTE Band 41	20	13.31	0	Ant 3a	QPSK	1	0	0 mm	right	1:1.58	0.552	12.94	
2680.00	41490	High	LTE Band 41	20	13.49	0	Ant 3a	QPSK	1	99	0 mm	right	1:1.58	0.527	13.32	
2506.00	39750	Low	LTE Band 41	20	13.68	0	Ant 3a	QPSK	50	25	0 mm	right	1:1.58	0.718	12.16	
2549.50	40185	Low-Mid	LTE Band 41	20	13.57	0	Ant 3a	QPSK	50	25	0 mm	right	1:1.58	0.634	12.59	
2593.00	40620	Mid	LTE Band 41	20	13.40	0	Ant 3a	QPSK	50	25	0 mm	right	1:1.58	0.579	12.82	
2636.50	41055	Mid-High	LTE Band 41	20	13.44	0	Ant 3a	QPSK	50	25	0 mm	right	1:1.58	0.562	12.99	
2680.00	41490	High	LTE Band 41	20	13.58	0	Ant 3a	QPSK	50	25	0 mm	right	1:1.58	0.548	13.24	
2680.00	41490	High	LTE Band 41	20	13.55	0	Ant 3a	QPSK	100	0	0 mm	right	1:1.58	0.553	13.17	
2506.00	39750	Low	LTE Band 41	20	13.60	0	Ant 3a	QPSK	1	99	0 mm	left	1:1.58	0.006	32.86	
2506.00	39750	Low	LTE Band 41	20	13.68	0	Ant 3a	QPSK	50	25	0 mm	left	1:1.58	0.005	33.74	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						Body 1.6 W/kg (mW/g) averaged over 1 gram										

FCC ID: BCGA2589	 PCTEST Proud to be part of element	PART 0 SAR CHAR REPORT	Approved by: Quality Manager
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Table A-41
DSI = 1 P_{Limit} Calculations – Antenna 2a 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 [dBm]
MHz	Ch.													(W/kg)	[dBm]	
2506.00	39750	Low	LTE Band 41	20	15.04	0	Ant 2a	QPSK	1	50	0 mm	back	1:1.58	0.740	13.39	13.25
2549.50	40185	Low-Mid	LTE Band 41	20	15.11	0	Ant 2a	QPSK	1	99	0 mm	back	1:1.58	0.686	13.79	
2593.00	40620	Mid	LTE Band 41	20	15.13	0	Ant 2a	QPSK	1	0	0 mm	back	1:1.58	0.713	13.64	
2636.50	41055	Mid-High	LTE Band 41	20	15.08	0	Ant 2a	QPSK	1	0	0 mm	back	1:1.58	0.722	13.54	
2680.00	41490	High	LTE Band 41	20	15.16	0	Ant 2a	QPSK	1	0	0 mm	back	1:1.58	0.703	13.74	
2506.00	39750	Low	LTE Band 41	20	15.09	0	Ant 2a	QPSK	50	25	0 mm	back	1:1.58	0.774	13.25	
2549.50	40185	Low-Mid	LTE Band 41	20	15.16	0	Ant 2a	QPSK	50	25	0 mm	back	1:1.58	0.727	13.59	
2593.00	40620	Mid	LTE Band 41	20	15.18	0	Ant 2a	QPSK	50	25	0 mm	back	1:1.58	0.728	13.60	
2636.50	41055	Mid-High	LTE Band 41	20	15.14	0	Ant 2a	QPSK	50	50	0 mm	back	1:1.58	0.711	13.67	
2680.00	41490	High	LTE Band 41	20	15.21	0	Ant 2a	QPSK	50	25	0 mm	back	1:1.58	0.713	13.72	
2680.00	41490	High	LTE Band 41	20	15.15	0	Ant 2a	QPSK	100	0	0 mm	back	1:1.58	0.707	13.70	
2680.00	41490	High	LTE Band 41	20	15.16	0	Ant 2a	QPSK	1	0	0 mm	top	1:1.58	0.004	36.18	
2680.00	41490	High	LTE Band 41	20	15.21	0	Ant 2a	QPSK	50	25	0 mm	top	1:1.58	0.005	35.27	
2506.00	39750	Low	LTE Band 41	20	15.04	0	Ant 2a	QPSK	1	50	0 mm	bottom	1:1.58	0.505	15.05	
2549.50	40185	Low-Mid	LTE Band 41	20	15.11	0	Ant 2a	QPSK	1	99	0 mm	bottom	1:1.58	0.486	15.29	
2593.00	40620	Mid	LTE Band 41	20	15.13	0	Ant 2a	QPSK	1	0	0 mm	bottom	1:1.58	0.480	15.36	
2636.50	41055	Mid-High	LTE Band 41	20	15.08	0	Ant 2a	QPSK	1	0	0 mm	bottom	1:1.58	0.465	15.45	
2680.00	41490	High	LTE Band 41	20	15.16	0	Ant 2a	QPSK	1	0	0 mm	bottom	1:1.58	0.501	15.21	
2506.00	39750	Low	LTE Band 41	20	15.09	0	Ant 2a	QPSK	50	25	0 mm	bottom	1:1.58	0.536	14.84	
2549.50	40185	Low-Mid	LTE Band 41	20	15.16	0	Ant 2a	QPSK	50	25	0 mm	bottom	1:1.58	0.506	15.16	
2593.00	40620	Mid	LTE Band 41	20	15.18	0	Ant 2a	QPSK	50	25	0 mm	bottom	1:1.58	0.489	15.33	
2636.50	41055	Mid-High	LTE Band 41	20	15.14	0	Ant 2a	QPSK	50	50	0 mm	bottom	1:1.58	0.483	15.35	
2680.00	41490	High	LTE Band 41	20	15.21	0	Ant 2a	QPSK	50	25	0 mm	bottom	1:1.58	0.502	15.25	
2680.00	41490	High	LTE Band 41	20	15.15	0	Ant 2a	QPSK	100	0	0 mm	bottom	1:1.58	0.492	15.28	
2506.00	39750	Low	LTE Band 41	20	15.04	0	Ant 2a	QPSK	1	50	0 mm	right	1:1.58	0.527	14.87	
2549.50	40185	Low-Mid	LTE Band 41	20	15.11	0	Ant 2a	QPSK	1	99	0 mm	right	1:1.58	0.516	15.03	
2593.00	40620	Mid	LTE Band 41	20	15.13	0	Ant 2a	QPSK	1	0	0 mm	right	1:1.58	0.533	14.91	
2636.50	41055	Mid-High	LTE Band 41	20	15.08	0	Ant 2a	QPSK	1	0	0 mm	right	1:1.58	0.564	14.61	
2680.00	41490	High	LTE Band 41	20	15.16	0	Ant 2a	QPSK	1	0	0 mm	right	1:1.58	0.558	14.74	
2506.00	39750	Low	LTE Band 41	20	15.09	0	Ant 2a	QPSK	50	25	0 mm	right	1:1.58	0.540	14.81	
2549.50	40185	Low-Mid	LTE Band 41	20	15.16	0	Ant 2a	QPSK	50	25	0 mm	right	1:1.58	0.537	14.91	
2593.00	40620	Mid	LTE Band 41	20	15.18	0	Ant 2a	QPSK	50	25	0 mm	right	1:1.58	0.539	14.91	
2636.50	41055	Mid-High	LTE Band 41	20	15.14	0	Ant 2a	QPSK	50	50	0 mm	right	1:1.58	0.554	14.75	
2680.00	41490	High	LTE Band 41	20	15.21	0	Ant 2a	QPSK	50	25	0 mm	right	1:1.58	0.566	14.73	
2680.00	41490	High	LTE Band 41	20	15.15	0	Ant 2a	QPSK	100	0	0 mm	right	1:1.58	0.564	14.68	
2680.00	41490	High	LTE Band 41	20	15.16	0	Ant 2a	QPSK	1	0	0 mm	left	1:1.58	0.000	42.20	
2680.00	41490	High	LTE Band 41	20	15.21	0	Ant 2a	QPSK	50	25	0 mm	left	1:1.58	0.000	44.24	
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: BCGA2589	 PART 0 SAR CHAR REPORT	Approved by: Quality Manager
Test Dates: 12/07/2021 – 01/03/2022	DUT Type: Tablet Device	APPENDIX A: Page 31 of 54

Table A-42
DSI = 1 P_{Limit} Calculations – Antenna 1a 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	14.93	0	Ant 1a	QPSK	1	99	0 mm	back	1:1.58	0.889	12.49	12.48
2549.50	40185	Low-Mid	LTE Band 41	20	14.96	0	Ant 1a	QPSK	1	50	0 mm	back	1:1.58	0.693	13.60	
2593.00	40620	Mid	LTE Band 41	20	14.44	0	Ant 1a	QPSK	1	0	0 mm	back	1:1.58	0.727	12.87	
2636.50	41055	Mid-High	LTE Band 41	20	14.65	0	Ant 1a	QPSK	1	0	0 mm	back	1:1.58	0.833	12.49	
2680.00	41490	High	LTE Band 41	20	14.84	0	Ant 1a	QPSK	1	0	0 mm	back	1:1.58	0.872	12.48	
2506.00	39750	Low	LTE Band 41	20	14.80	0	Ant 1a	QPSK	50	25	0 mm	back	1:1.58	0.739	13.16	
2549.50	40185	Low-Mid	LTE Band 41	20	15.00	0	Ant 1a	QPSK	50	25	0 mm	back	1:1.58	0.734	13.39	
2593.00	40620	Mid	LTE Band 41	20	14.61	0	Ant 1a	QPSK	50	25	0 mm	back	1:1.58	0.760	12.85	
2636.50	41055	Mid-High	LTE Band 41	20	14.99	0	Ant 1a	QPSK	50	25	0 mm	back	1:1.58	0.900	12.49	
2680.00	41490	High	LTE Band 41	20	14.91	0	Ant 1a	QPSK	50	25	0 mm	back	1:1.58	0.876	12.53	
2549.50	40185	Low-Mid	LTE Band 41	20	14.74	0	Ant 1a	QPSK	100	0	0 mm	back	1:1.58	0.762	12.97	
2549.50	40185	Low-Mid	LTE Band 41	20	14.96	0	Ant 1a	QPSK	1	50	0 mm	top	1:1.58	0.004	35.98	
2549.50	40185	Low-Mid	LTE Band 41	20	15.00	0	Ant 1a	QPSK	50	25	0 mm	top	1:1.58	0.006	34.26	
2549.50	40185	Low-Mid	LTE Band 41	20	14.96	0	Ant 1a	QPSK	1	50	0 mm	bottom	1:1.58	0.361	16.43	
2549.50	40185	Low-Mid	LTE Band 41	20	15.00	0	Ant 1a	QPSK	50	25	0 mm	bottom	1:1.58	0.361	16.47	
2549.50	40185	Low-Mid	LTE Band 41	20	14.96	0	Ant 1a	QPSK	1	50	0 mm	right	1:1.58	0.000	42.01	
2549.50	40185	Low-Mid	LTE Band 41	20	15.00	0	Ant 1a	QPSK	50	25	0 mm	right	1:1.58	0.000	42.04	
2506.00	39750	Low	LTE Band 41	20	14.93	0	Ant 1a	QPSK	1	99	0 mm	left	1:1.58	0.704	13.50	
2549.50	40185	Low-Mid	LTE Band 41	20	14.96	0	Ant 1a	QPSK	1	50	0 mm	left	1:1.58	0.597	14.25	
2593.00	40620	Mid	LTE Band 41	20	14.44	0	Ant 1a	QPSK	1	0	0 mm	left	1:1.58	0.671	13.22	
2636.50	41055	Mid-High	LTE Band 41	20	14.65	0	Ant 1a	QPSK	1	0	0 mm	left	1:1.58	0.797	12.68	
2680.00	41490	High	LTE Band 41	20	14.84	0	Ant 1a	QPSK	1	0	0 mm	left	1:1.58	0.809	12.81	
2506.00	39750	Low	LTE Band 41	20	14.80	0	Ant 1a	QPSK	50	25	0 mm	left	1:1.58	0.845	12.58	
2549.50	40185	Low-Mid	LTE Band 41	20	15.00	0	Ant 1a	QPSK	50	25	0 mm	left	1:1.58	0.601	14.26	
2593.00	40620	Mid	LTE Band 41	20	14.61	0	Ant 1a	QPSK	50	25	0 mm	left	1:1.58	0.782	12.72	
2636.50	41055	Mid-High	LTE Band 41	20	14.99	0	Ant 1a	QPSK	50	25	0 mm	left	1:1.58	0.878	12.60	
2680.00	41490	High	LTE Band 41	20	14.91	0	Ant 1a	QPSK	50	25	0 mm	left	1:1.58	0.770	13.09	
2549.50	40185	Low-Mid	LTE Band 41	20	14.74	0	Ant 1a	QPSK	100	0	0 mm	left	1:1.58	0.680	13.46	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						Body 1.6 W/kg (mW/g) averaged over 1 gram										

FCC ID: BCGA2589	 PART 0 SAR CHAR REPORT	Approved by: Quality Manager
Test Dates: 12/07/2021 – 01/03/2022	DUT Type: Tablet Device	APPENDIX A: Page 32 of 54

Table A-43
DSI = 1 P_{Limit} Calculations – Antenna 4 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	13.34	0	Ant 4	QPSK	1	50	0 mm	back	1:1	0.589	12.68	11.83
3603.30	55773	Low-Mid	LTE Band 48	20	13.20	0	Ant 4	QPSK	1	99	0 mm	back	1:1	0.694	11.83	
3646.70	56207	Mid-High	LTE Band 48	20	13.24	0	Ant 4	QPSK	1	99	0 mm	back	1:1	0.686	11.92	
3690.00	56640	High	LTE Band 48	20	13.33	0	Ant 4	QPSK	1	50	0 mm	back	1:1	0.596	12.62	
3560.00	55340	Low	LTE Band 48	20	13.45	0	Ant 4	QPSK	50	25	0 mm	back	1:1	0.645	12.40	
3603.30	55773	Low-Mid	LTE Band 48	20	13.34	0	Ant 4	QPSK	50	0	0 mm	back	1:1	0.691	11.99	
3646.70	56207	Mid-High	LTE Band 48	20	13.44	0	Ant 4	QPSK	50	25	0 mm	back	1:1	0.704	12.01	
3690.00	56640	High	LTE Band 48	20	13.32	0	Ant 4	QPSK	50	0	0 mm	back	1:1	0.622	12.43	
3560.00	55340	Low	LTE Band 48	20	13.31	0	Ant 4	QPSK	100	0	0 mm	back	1:1	0.649	12.23	
3560.00	55340	Low	LTE Band 48	20	13.34	0	Ant 4	QPSK	1	50	0 mm	top	1:1	0.201	17.35	
3560.00	55340	Low	LTE Band 48	20	13.45	0	Ant 4	QPSK	50	25	0 mm	top	1:1	0.213	17.21	
3560.00	55340	Low	LTE Band 48	20	13.34	0	Ant 4	QPSK	1	50	0 mm	bottom	1:1	0.007	31.93	
3560.00	55340	Low	LTE Band 48	20	13.45	0	Ant 4	QPSK	50	25	0 mm	bottom	1:1	0.011	30.08	
3560.00	55340	Low	LTE Band 48	20	13.34	0	Ant 4	QPSK	1	50	0 mm	right	1:1	0.000	40.39	
3560.00	55340	Low	LTE Band 48	20	13.45	0	Ant 4	QPSK	50	25	0 mm	right	1:1	0.000	40.49	
3560.00	55340	Low	LTE Band 48	20	13.34	0	Ant 4	QPSK	1	50	0 mm	left	1:1	0.418	14.17	
3560.00	55340	Low	LTE Band 48	20	13.45	0	Ant 4	QPSK	50	25	0 mm	left	1:1	0.436	14.10	
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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FCC ID: BCGA2589	 PART 0 SAR CHAR REPORT	Approved by: Quality Manager
Test Dates: 12/07/2021 – 01/03/2022	DUT Type: Tablet Device	APPENDIX A: Page 33 of 54

Table A-44
DSI = 1 P_{Limit} Calculations – Antenna 3b 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
MHz	Ch.													(W/kg)	[dBm]
3560.00	55340	Low	LTE Band 48	20	14.06	0	Ant 3b	QPSK	1	0	0 mm	back	1:1	0.592	13.38
3603.30	55773	Low-Mid	LTE Band 48	20	14.07	0	Ant 3b	QPSK	1	0	0 mm	back	1:1	0.513	14.01
3646.70	56207	Mid-High	LTE Band 48	20	14.02	0	Ant 3b	QPSK	1	0	0 mm	back	1:1	0.487	14.19
3690.00	56640	High	LTE Band 48	20	13.99	0	Ant 3b	QPSK	1	0	0 mm	back	1:1	0.470	14.31
3560.00	55340	Low	LTE Band 48	20	14.24	0	Ant 3b	QPSK	50	25	0 mm	back	1:1	0.567	13.75
3603.30	55773	Low-Mid	LTE Band 48	20	14.17	0	Ant 3b	QPSK	50	25	0 mm	back	1:1	0.490	14.31
3646.70	56207	Mid-High	LTE Band 48	20	14.11	0	Ant 3b	QPSK	50	50	0 mm	back	1:1	0.489	14.26
3690.00	56640	High	LTE Band 48	20	14.11	0	Ant 3b	QPSK	50	50	0 mm	back	1:1	0.491	14.24
3603.30	55773	Low-Mid	LTE Band 48	20	14.06	0	Ant 3b	QPSK	100	0	0 mm	back	1:1	0.496	14.15
3560.00	55340	Low	LTE Band 48	20	14.06	0	Ant 3b	QPSK	1	0	0 mm	top	1:1	0.521	13.94
3603.30	55773	Low-Mid	LTE Band 48	20	14.07	0	Ant 3b	QPSK	1	0	0 mm	top	1:1	0.506	14.07
3646.70	56207	Mid-High	LTE Band 48	20	14.02	0	Ant 3b	QPSK	1	0	0 mm	top	1:1	0.522	13.89
3690.00	56640	High	LTE Band 48	20	13.99	0	Ant 3b	QPSK	1	0	0 mm	top	1:1	0.537	13.74
3560.00	55340	Low	LTE Band 48	20	14.24	0	Ant 3b	QPSK	50	25	0 mm	top	1:1	0.571	13.72
3603.30	55773	Low-Mid	LTE Band 48	20	14.17	0	Ant 3b	QPSK	50	25	0 mm	top	1:1	0.515	14.10
3646.70	56207	Mid-High	LTE Band 48	20	14.11	0	Ant 3b	QPSK	50	50	0 mm	top	1:1	0.522	13.98
3690.00	56640	High	LTE Band 48	20	14.11	0	Ant 3b	QPSK	50	50	0 mm	top	1:1	0.550	13.75
3603.30	55773	Low-Mid	LTE Band 48	20	14.06	0	Ant 3b	QPSK	100	0	0 mm	top	1:1	0.521	13.94
3603.30	55773	Low-Mid	LTE Band 48	20	14.07	0	Ant 3b	QPSK	1	0	0 mm	bottom	1:1	0.000	41.12
3560.00	55340	Low	LTE Band 48	20	14.24	0	Ant 3b	QPSK	50	25	0 mm	bottom	1:1	0.000	41.29
3603.30	55773	Low-Mid	LTE Band 48	20	14.07	0	Ant 3b	QPSK	1	0	0 mm	right	1:1	0.064	23.05
3560.00	55340	Low	LTE Band 48	20	14.24	0	Ant 3b	QPSK	50	25	0 mm	right	1:1	0.064	23.22
3603.30	55773	Low-Mid	LTE Band 48	20	14.07	0	Ant 3b	QPSK	1	0	0 mm	left	1:1	0.010	31.12
3560.00	55340	Low	LTE Band 48	20	14.24	0	Ant 3b	QPSK	50	25	0 mm	left	1:1	0.007	32.83
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: BCGA2589	 PCTEST Proud to be part of element	PART 0 SAR CHAR REPORT	Approved by: Quality Manager
Test Dates: 12/07/2021 – 01/03/2022	DUT Type: Tablet Device		APPENDIX A: Page 34 of 54

Table A-45
DSI = 1 P_{Limit} Calculations – Antenna 2b 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	14.03	0	Ant 2b	QPSK	1	0	0 mm	back	1:1	0.663	12.86	12.27
3603.30	55773	Low-Mid	LTE Band 48	20	14.05	0	Ant 2b	QPSK	1	99	0 mm	back	1:1	0.529	13.86	
3646.70	56207	Mid-High	LTE Band 48	20	14.14	0	Ant 2b	QPSK	1	0	0 mm	back	1:1	0.563	13.68	
3690.00	56640	High	LTE Band 48	20	14.13	0	Ant 2b	QPSK	1	0	0 mm	back	1:1	0.676	12.88	
3560.00	55340	Low	LTE Band 48	20	14.12	0	Ant 2b	QPSK	50	0	0 mm	back	1:1	0.663	12.95	
3603.30	55773	Low-Mid	LTE Band 48	20	14.16	0	Ant 2b	QPSK	50	50	0 mm	back	1:1	0.541	13.87	
3646.70	56207	Mid-High	LTE Band 48	20	14.30	0	Ant 2b	QPSK	50	25	0 mm	back	1:1	0.569	13.79	
3690.00	56640	High	LTE Band 48	20	14.26	0	Ant 2b	QPSK	50	50	0 mm	back	1:1	0.720	12.73	
3646.70	56207	Mid-High	LTE Band 48	20	14.13	0	Ant 2b	QPSK	100	0	0 mm	back	1:1	0.575	13.58	
3646.70	56207	Mid-High	LTE Band 48	20	14.14	0	Ant 2b	QPSK	1	0	0 mm	top	1:1	0.000	41.18	
3646.70	56207	Mid-High	LTE Band 48	20	14.30	0	Ant 2b	QPSK	50	25	0 mm	top	1:1	0.000	41.34	
3560.00	55340	Low	LTE Band 48	20	14.03	0	Ant 2b	QPSK	1	0	0 mm	bottom	1:1	0.759	12.27	
3603.30	55773	Low-Mid	LTE Band 48	20	14.05	0	Ant 2b	QPSK	1	99	0 mm	bottom	1:1	0.644	13.01	
3646.70	56207	Mid-High	LTE Band 48	20	14.14	0	Ant 2b	QPSK	1	0	0 mm	bottom	1:1	0.675	12.89	
3690.00	56640	High	LTE Band 48	20	14.13	0	Ant 2b	QPSK	1	0	0 mm	bottom	1:1	0.759	12.37	
3560.00	55340	Low	LTE Band 48	20	14.12	0	Ant 2b	QPSK	50	0	0 mm	bottom	1:1	0.758	12.37	
3603.30	55773	Low-Mid	LTE Band 48	20	14.16	0	Ant 2b	QPSK	50	50	0 mm	bottom	1:1	0.647	13.10	
3646.70	56207	Mid-High	LTE Band 48	20	14.30	0	Ant 2b	QPSK	50	25	0 mm	bottom	1:1	0.689	12.96	
3690.00	56640	High	LTE Band 48	20	14.26	0	Ant 2b	QPSK	50	50	0 mm	bottom	1:1	0.711	12.79	
3646.70	56207	Mid-High	LTE Band 48	20	14.13	0	Ant 2b	QPSK	100	0	0 mm	bottom	1:1	0.693	12.77	
3646.70	56207	Mid-High	LTE Band 48	20	14.14	0	Ant 2b	QPSK	1	0	0 mm	right	1:1	0.009	31.64	
3646.70	56207	Mid-High	LTE Band 48	20	14.30	0	Ant 2b	QPSK	50	25	0 mm	right	1:1	0.005	34.36	
3646.70	56207	Mid-High	LTE Band 48	20	14.14	0	Ant 2b	QPSK	1	0	0 mm	left	1:1	0.002	38.17	
3646.70	56207	Mid-High	LTE Band 48	20	14.30	0	Ant 2b	QPSK	50	25	0 mm	left	1:1	0.003	36.57	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						Body 1.6 W/kg (mW/g) averaged over 1 gram										

FCC ID: BCGA2589	 PCTEST Proud to be part of element	PART 0 SAR CHAR REPORT	Approved by: Quality Manager
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Table A-46
DSI = 1 P_{Limit} Calculations – Antenna 1b 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	12.62	0	Ant 1b	QPSK	1	0	0 mm	back	1:1	0.595	11.92	11.50
3603.30	55773	Low-Mid	LTE Band 48	20	12.58	0	Ant 1b	QPSK	1	99	0 mm	back	1:1	0.608	11.79	
3646.70	56207	Mid-High	LTE Band 48	20	12.77	0	Ant 1b	QPSK	1	99	0 mm	back	1:1	0.536	12.52	
3690.00	56640	High	LTE Band 48	20	12.70	0	Ant 1b	QPSK	1	0	0 mm	back	1:1	0.534	12.47	
3560.00	55340	Low	LTE Band 48	20	12.84	0	Ant 1b	QPSK	50	25	0 mm	back	1:1	0.596	12.13	
3603.30	55773	Low-Mid	LTE Band 48	20	12.70	0	Ant 1b	QPSK	50	25	0 mm	back	1:1	0.633	11.73	
3646.70	56207	Mid-High	LTE Band 48	20	12.85	0	Ant 1b	QPSK	50	25	0 mm	back	1:1	0.561	12.41	
3690.00	56640	High	LTE Band 48	20	12.84	0	Ant 1b	QPSK	50	25	0 mm	back	1:1	0.521	12.72	
3646.70	56207	Mid-High	LTE Band 48	20	12.76	0	Ant 1b	QPSK	100	0	0 mm	back	1:1	0.558	12.34	
3646.70	56207	Mid-High	LTE Band 48	20	12.77	0	Ant 1b	QPSK	1	99	0 mm	top	1:1	0.000	39.82	
3646.70	56207	Mid-High	LTE Band 48	20	12.85	0	Ant 1b	QPSK	50	25	0 mm	top	1:1	0.000	39.89	
3560.00	55340	Low	LTE Band 48	20	12.62	0	Ant 1b	QPSK	1	0	0 mm	bottom	1:1	0.655	11.50	
3603.30	55773	Low-Mid	LTE Band 48	20	12.58	0	Ant 1b	QPSK	1	99	0 mm	bottom	1:1	0.556	12.17	
3646.70	56207	Mid-High	LTE Band 48	20	12.77	0	Ant 1b	QPSK	1	99	0 mm	bottom	1:1	0.550	12.41	
3690.00	56640	High	LTE Band 48	20	12.70	0	Ant 1b	QPSK	1	0	0 mm	bottom	1:1	0.547	12.37	
3560.00	55340	Low	LTE Band 48	20	12.84	0	Ant 1b	QPSK	50	25	0 mm	bottom	1:1	0.664	11.66	
3603.30	55773	Low-Mid	LTE Band 48	20	12.70	0	Ant 1b	QPSK	50	25	0 mm	bottom	1:1	0.589	12.04	
3646.70	56207	Mid-High	LTE Band 48	20	12.85	0	Ant 1b	QPSK	50	25	0 mm	bottom	1:1	0.568	12.35	
3690.00	56640	High	LTE Band 48	20	12.84	0	Ant 1b	QPSK	50	25	0 mm	bottom	1:1	0.555	12.44	
3646.70	56207	Mid-High	LTE Band 48	20	12.76	0	Ant 1b	QPSK	100	0	0 mm	bottom	1:1	0.564	12.29	
3646.70	56207	Mid-High	LTE Band 48	20	12.77	0	Ant 1b	QPSK	1	99	0 mm	right	1:1	0.002	36.80	
3646.70	56207	Mid-High	LTE Band 48	20	12.85	0	Ant 1b	QPSK	50	25	0 mm	right	1:1	0.000	39.89	
3646.70	56207	Mid-High	LTE Band 48	20	12.77	0	Ant 1b	QPSK	1	99	0 mm	left	1:1	0.005	32.83	
3646.70	56207	Mid-High	LTE Band 48	20	12.85	0	Ant 1b	QPSK	50	25	0 mm	left	1:1	0.004	33.87	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						Body 1.6 W/kg (mW/g) averaged over 1 gram										

FCC ID: BCGA2589	 PCTEST Proud to be part of element	PART 0 SAR CHAR REPORT	Approved by: Quality Manager
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Table A-47
DSI = 1 P_{Limit} Calculations – Antenna 4 NR Band n71

MEASUREMENT RESULTS																	
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Antenna Config	Waveform	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plimit	Minimum Plimit
															(W/kg)	[dBm]	[dBm]
MHz	Ch.																
680.50	136100	Mid	NR Band n71	20	20.70	0	Ant 4	DFT-S-OFDM	QPSK	1	1	0 mm	back	1:1	0.545	22.37	21.53
680.50	136100	Mid	NR Band n71	20	20.73	0	Ant 4	DFT-S-OFDM	QPSK	50	0	0 mm	back	1:1	0.572	22.19	
680.50	136100	Mid	NR Band n71	20	20.70	0	Ant 4	DFT-S-OFDM	QPSK	1	1	0 mm	top	1:1	0.502	22.72	
680.50	136100	Mid	NR Band n71	20	20.73	0	Ant 4	DFT-S-OFDM	QPSK	50	0	0 mm	top	1:1	0.454	23.19	
680.50	136100	Mid	NR Band n71	20	20.70	0	Ant 4	DFT-S-OFDM	QPSK	1	1	0 mm	bottom	1:1	0.013	38.59	
680.50	136100	Mid	NR Band n71	20	20.73	0	Ant 4	DFT-S-OFDM	QPSK	50	0	0 mm	bottom	1:1	0.015	38.00	
680.50	136100	Mid	NR Band n71	20	20.70	0	Ant 4	DFT-S-OFDM	QPSK	1	1	0 mm	right	1:1	0.033	34.55	
680.50	136100	Mid	NR Band n71	20	20.73	0	Ant 4	DFT-S-OFDM	QPSK	50	0	0 mm	right	1:1	0.030	34.99	
680.50	136100	Mid	NR Band n71	20	20.70	0	Ant 4	DFT-S-OFDM	QPSK	1	1	0 mm	left	1:1	0.661	21.53	
680.50	136100	Mid	NR Band n71	20	20.73	0	Ant 4	DFT-S-OFDM	QPSK	50	0	0 mm	left	1:1	0.582	22.11	
680.50	136100	Mid	NR Band n71	20	20.69	0	Ant 4	DFT-S-OFDM	QPSK	100	0	0 mm	left	1:1	0.534	22.45	
680.50	136100	Mid	NR Band n71	20	20.66	0	Ant 4	CP-OFDM	QPSK	1	1	0 mm	left	1:1	0.618	21.78	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						Body 1.6 W/kg (mW/g) averaged over 1 gram											

Table A-48
DSI = 1 P_{Limit} Calculations – Antenna 3b NR Band n71

MEASUREMENT RESULTS																	
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Antenna Config	Waveform	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plimit	Minimum Plimit
															(W/kg)	[dBm]	[dBm]
MHz	Ch.																
680.50	136100	Mid	NR Band n71	20	18.50	0	Ant 3b	DFT-S-OFDM	QPSK	1	1	0 mm	back	1:1	0.727	18.92	18.71
680.50	136100	Mid	NR Band n71	20	18.30	0	Ant 3b	DFT-S-OFDM	QPSK	50	0	0 mm	back	1:1	0.676	19.03	
680.50	136100	Mid	NR Band n71	20	18.20	0	Ant 3b	DFT-S-OFDM	QPSK	100	0	0 mm	back	1:1	0.654	19.08	
680.50	136100	Mid	NR Band n71	20	18.45	0	Ant 3b	CP-OFDM	QPSK	1	1	0 mm	back	1:1	0.754	18.71	
680.50	136100	Mid	NR Band n71	20	18.50	0	Ant 3b	DFT-S-OFDM	QPSK	1	1	0 mm	top	1:1	0.633	19.52	
680.50	136100	Mid	NR Band n71	20	18.30	0	Ant 3b	DFT-S-OFDM	QPSK	50	0	0 mm	top	1:1	0.620	19.41	
680.50	136100	Mid	NR Band n71	20	18.20	0	Ant 3b	DFT-S-OFDM	QPSK	100	0	0 mm	top	1:1	0.581	19.59	
680.50	136100	Mid	NR Band n71	20	18.50	0	Ant 3b	DFT-S-OFDM	QPSK	1	1	0 mm	bottom	1:1	0.003	42.76	
680.50	136100	Mid	NR Band n71	20	18.30	0	Ant 3b	DFT-S-OFDM	QPSK	50	0	0 mm	bottom	1:1	0.003	42.56	
680.50	136100	Mid	NR Band n71	20	18.50	0	Ant 3b	DFT-S-OFDM	QPSK	1	1	0 mm	right	1:1	0.082	28.39	
680.50	136100	Mid	NR Band n71	20	18.30	0	Ant 3b	DFT-S-OFDM	QPSK	50	0	0 mm	right	1:1	0.073	28.70	
680.50	136100	Mid	NR Band n71	20	18.50	0	Ant 3b	DFT-S-OFDM	QPSK	1	1	0 mm	left	1:1	0.010	37.53	
680.50	136100	Mid	NR Band n71	20	18.30	0	Ant 3b	DFT-S-OFDM	QPSK	50	0	0 mm	left	1:1	0.007	38.88	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						Body 1.6 W/kg (mW/g) averaged over 1 gram											

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Table A-49
DSI = 1 P_{Limit} Calculations – Antenna 4 NR Band n12

MEASUREMENT RESULTS																	
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Antenna Config	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	19.92	0	Ant 4	DFT-S-OFDM	QPSK	1	1	0 mm	back	1:1	0.541	21.62	20.87
707.50	141500	Mid	NR Band n12	15	19.90	0	Ant 4	DFT-S-OFDM	QPSK	36	0	0 mm	back	1:1	0.497	21.97	
707.50	141500	Mid	NR Band n12	15	19.92	0	Ant 4	DFT-S-OFDM	QPSK	1	1	0 mm	top	1:1	0.502	21.94	
707.50	141500	Mid	NR Band n12	15	19.90	0	Ant 4	DFT-S-OFDM	QPSK	36	0	0 mm	top	1:1	0.496	21.98	
707.50	141500	Mid	NR Band n12	15	19.92	0	Ant 4	DFT-S-OFDM	QPSK	1	1	0 mm	bottom	1:1	0.017	36.65	
707.50	141500	Mid	NR Band n12	15	19.90	0	Ant 4	DFT-S-OFDM	QPSK	36	0	0 mm	bottom	1:1	0.016	36.89	
707.50	141500	Mid	NR Band n12	15	19.92	0	Ant 4	DFT-S-OFDM	QPSK	1	1	0 mm	right	1:1	0.025	34.97	
707.50	141500	Mid	NR Band n12	15	19.90	0	Ant 4	DFT-S-OFDM	QPSK	36	0	0 mm	right	1:1	0.022	35.51	
707.50	141500	Mid	NR Band n12	15	19.92	0	Ant 4	DFT-S-OFDM	QPSK	1	1	0 mm	left	1:1	0.643	20.87	
707.50	141500	Mid	NR Band n12	15	19.90	0	Ant 4	DFT-S-OFDM	QPSK	36	0	0 mm	left	1:1	0.636	20.90	
707.50	141500	Mid	NR Band n12	15	19.85	0	Ant 4	DFT-S-OFDM	QPSK	75	0	0 mm	left	1:1	0.592	21.16	
707.50	141500	Mid	NR Band n12	15	19.83	0	Ant 4	CP-OFDM	QPSK	1	1	0 mm	left	1:1	0.614	20.98	
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-50
DSI = 1 P_{Limit} Calculations – Antenna 3b NR Band n12

MEASUREMENT RESULTS																	
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Antenna Config	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	17.42	0	Ant 3b	DFT-S-OFDM	QPSK	1	1	0 mm	back	1:1	0.597	18.69	17.49
707.50	141500	Mid	NR Band n12	15	17.37	0	Ant 3b	DFT-S-OFDM	QPSK	36	0	0 mm	back	1:1	0.581	18.76	
707.50	141500	Mid	NR Band n12	15	17.42	0	Ant 3b	DFT-S-OFDM	QPSK	1	1	0 mm	top	1:1	0.765	17.61	
707.50	141500	Mid	NR Band n12	15	17.37	0	Ant 3b	DFT-S-OFDM	QPSK	36	0	0 mm	top	1:1	0.757	17.61	
707.50	141500	Mid	NR Band n12	15	17.27	0	Ant 3b	DFT-S-OFDM	QPSK	75	0	0 mm	top	1:1	0.732	17.66	
707.50	141500	Mid	NR Band n12	15	17.35	0	Ant 3b	CP-OFDM	QPSK	1	1	0 mm	top	1:1	0.774	17.49	
707.50	141500	Mid	NR Band n12	15	17.42	0	Ant 3b	DFT-S-OFDM	QPSK	1	1	0 mm	bottom	1:1	0.004	40.43	
707.50	141500	Mid	NR Band n12	15	17.37	0	Ant 3b	DFT-S-OFDM	QPSK	36	0	0 mm	bottom	1:1	0.004	40.38	
707.50	141500	Mid	NR Band n12	15	17.42	0	Ant 3b	DFT-S-OFDM	QPSK	1	1	0 mm	right	1:1	0.060	28.67	
707.50	141500	Mid	NR Band n12	15	17.37	0	Ant 3b	DFT-S-OFDM	QPSK	36	0	0 mm	right	1:1	0.061	28.55	
707.50	141500	Mid	NR Band n12	15	17.42	0	Ant 3b	DFT-S-OFDM	QPSK	1	1	0 mm	left	1:1	0.008	37.42	
707.50	141500	Mid	NR Band n12	15	17.37	0	Ant 3b	DFT-S-OFDM	QPSK	36	0	0 mm	left	1:1	0.010	36.40	
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-51
DSI = 1 P_{Limit} Calculations – Antenna 4 NR Band n5

MEASUREMENT RESULTS																	
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Antenna Config	Waveform	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plimit	Minimum Plimit
															(W/kg)	[dBm]	[dBm]
MHz	Ch.																
836.50	167300	Mid	NR Band n5 (Cell)	20	19.91	0	Ant 4	DFT-S-OFDM	QPSK	1	1	0 mm	back	1:1	0.684	20.59	19.37
836.50	167300	Mid	NR Band n5 (Cell)	20	19.79	0	Ant 4	DFT-S-OFDM	QPSK	50	0	0 mm	back	1:1	0.664	20.60	
836.50	167300	Mid	NR Band n5 (Cell)	20	19.91	0	Ant 4	DFT-S-OFDM	QPSK	1	1	0 mm	top	1:1	0.659	20.75	
836.50	167300	Mid	NR Band n5 (Cell)	20	19.79	0	Ant 4	DFT-S-OFDM	QPSK	50	0	0 mm	top	1:1	0.603	21.02	
836.50	167300	Mid	NR Band n5 (Cell)	20	19.91	0	Ant 4	DFT-S-OFDM	QPSK	1	1	0 mm	bottom	1:1	0.021	35.72	
836.50	167300	Mid	NR Band n5 (Cell)	20	19.79	0	Ant 4	DFT-S-OFDM	QPSK	50	0	0 mm	bottom	1:1	0.018	36.27	
836.50	167300	Mid	NR Band n5 (Cell)	20	19.91	0	Ant 4	DFT-S-OFDM	QPSK	1	1	0 mm	right	1:1	0.013	37.80	
836.50	167300	Mid	NR Band n5 (Cell)	20	19.79	0	Ant 4	DFT-S-OFDM	QPSK	50	0	0 mm	right	1:1	0.009	39.28	
836.50	167300	Mid	NR Band n5 (Cell)	20	19.91	0	Ant 4	DFT-S-OFDM	QPSK	1	1	0 mm	left	1:1	0.865	19.57	
836.50	167300	Mid	NR Band n5 (Cell)	20	19.79	0	Ant 4	DFT-S-OFDM	QPSK	50	0	0 mm	left	1:1	0.859	19.48	
836.50	167300	Mid	NR Band n5 (Cell)	20	19.77	0	Ant 4	DFT-S-OFDM	QPSK	100	0	0 mm	left	1:1	0.820	19.66	
836.50	167300	Mid	NR Band n5 (Cell)	20	19.91	0	Ant 4	CP-OFDM	QPSK	1	1	0 mm	left	1:1	0.906	19.37	
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-52
DSI = 1 P_{Limit} Calculations – Antenna 3b NR Band n5

MEASUREMENT RESULTS																	
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Antenna Config	Waveform	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plimit	Minimum Plimit
															(W/kg)	[dBm]	[dBm]
836.50	167300	Mid	NR Band n5 (Cell)	20	16.22	0	Ant 3b	DFT-S-OFDM	QPSK	1	1	0 mm	back	1:1	0.557	17.79	16.84
836.50	167300	Mid	NR Band n5 (Cell)	20	15.97	0	Ant 3b	DFT-S-OFDM	QPSK	50	0	0 mm	back	1:1	0.578	17.38	
836.50	167300	Mid	NR Band n5 (Cell)	20	15.91	0	Ant 3b	DFT-S-OFDM	QPSK	100	0	0 mm	back	1:1	0.595	17.20	
836.50	167300	Mid	NR Band n5 (Cell)	20	16.22	0	Ant 3b	DFT-S-OFDM	QPSK	1	1	0 mm	top	1:1	0.642	17.18	
836.50	167300	Mid	NR Band n5 (Cell)	20	15.97	0	Ant 3b	DFT-S-OFDM	QPSK	50	0	0 mm	top	1:1	0.655	16.84	
836.50	167300	Mid	NR Band n5 (Cell)	20	15.91	0	Ant 3b	DFT-S-OFDM	QPSK	100	0	0 mm	top	1:1	0.637	16.90	
836.50	167300	Mid	NR Band n5 (Cell)	20	16.21	0	Ant 3b	CP-OFDM	QPSK	1	1	0 mm	top	1:1	0.664	17.02	
836.50	167300	Mid	NR Band n5 (Cell)	20	16.22	0	Ant 3b	DFT-S-OFDM	QPSK	1	1	0 mm	bottom	1:1	0.003	40.48	
836.50	167300	Mid	NR Band n5 (Cell)	20	15.97	0	Ant 3b	DFT-S-OFDM	QPSK	50	0	0 mm	bottom	1:1	0.003	40.23	
836.50	167300	Mid	NR Band n5 (Cell)	20	16.22	0	Ant 3b	DFT-S-OFDM	QPSK	1	1	0 mm	right	1:1	0.055	27.85	
836.50	167300	Mid	NR Band n5 (Cell)	20	15.97	0	Ant 3b	DFT-S-OFDM	QPSK	50	0	0 mm	right	1:1	0.058	27.37	
836.50	167300	Mid	NR Band n5 (Cell)	20	16.22	0	Ant 3b	DFT-S-OFDM	QPSK	1	1	0 mm	left	1:1	0.006	37.47	
836.50	167300	Mid	NR Band n5 (Cell)	20	15.97	0	Ant 3b	DFT-S-OFDM	QPSK	50	0	0 mm	left	1:1	0.004	38.98	
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-53
DSI = 1 P_{Limit} Calculations – Antenna 4 NR Band n66

MEASUREMENT RESULTS																	
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Antenna Config	Waveform	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.	(W/kg)													[dBm]	[dBm]	
1745.00	349000	Mid	NR Band n66 (AWS)	40	14.42	0	Ant 4	DFT-S-OFDM	QPSK	1	108	0 mm	back	1:1	0.693	15.04	15.04
1745.00	349000	Mid	NR Band n66 (AWS)	40	14.40	0	Ant 4	DFT-S-OFDM	QPSK	108	108	0 mm	back	1:1	0.607	15.60	
1745.00	349000	Mid	NR Band n66 (AWS)	40	14.32	0	Ant 4	DFT-S-OFDM	QPSK	216	0	0 mm	back	1:1	0.596	15.60	
1745.00	349000	Mid	NR Band n66 (AWS)	40	14.65	0	Ant 4	CP-OFDM	QPSK	1	1	0 mm	back	1:1	0.622	15.74	
1745.00	349000	Mid	NR Band n66 (AWS)	40	14.42	0	Ant 4	DFT-S-OFDM	QPSK	1	108	0 mm	top	1:1	0.640	15.39	
1745.00	349000	Mid	NR Band n66 (AWS)	40	14.40	0	Ant 4	DFT-S-OFDM	QPSK	108	108	0 mm	top	1:1	0.524	16.24	
1745.00	349000	Mid	NR Band n66 (AWS)	40	14.42	0	Ant 4	DFT-S-OFDM	QPSK	1	108	0 mm	bottom	1:1	0.000	43.45	
1745.00	349000	Mid	NR Band n66 (AWS)	40	14.40	0	Ant 4	DFT-S-OFDM	QPSK	108	108	0 mm	bottom	1:1	0.000	43.43	
1745.00	349000	Mid	NR Band n66 (AWS)	40	14.42	0	Ant 4	DFT-S-OFDM	QPSK	1	108	0 mm	right	1:1	0.008	34.42	
1745.00	349000	Mid	NR Band n66 (AWS)	40	14.40	0	Ant 4	DFT-S-OFDM	QPSK	108	108	0 mm	right	1:1	0.016	31.39	
1745.00	349000	Mid	NR Band n66 (AWS)	40	14.42	0	Ant 4	DFT-S-OFDM	QPSK	1	108	0 mm	left	1:1	0.460	16.82	
1745.00	349000	Mid	NR Band n66 (AWS)	40	14.40	0	Ant 4	DFT-S-OFDM	QPSK	108	108	0 mm	left	1:1	0.467	16.74	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						Body 1.6 W/kg (mW/g) averaged over 1 gram											

Table A-54
DSI = 1 P_{Limit} Calculations – Antenna 3a NR Band n66

MEASUREMENT RESULTS																	
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Antenna Config	Waveform	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.	(W/kg)													[dBm]	[dBm]	
1745.00	349000	Mid	NR Band n66 (AWS)	40	12.99	0	Ant 3a	DFT-S-OFDM	QPSK	1	108	0 mm	back	1:1	0.394	16.07	12.84
1745.00	349000	Mid	NR Band n66 (AWS)	40	13.11	0	Ant 3a	DFT-S-OFDM	QPSK	108	54	0 mm	back	1:1	0.390	16.23	
1745.00	349000	Mid	NR Band n66 (AWS)	40	12.99	0	Ant 3a	DFT-S-OFDM	QPSK	1	108	0 mm	top	1:1	0.274	17.64	
1745.00	349000	Mid	NR Band n66 (AWS)	40	13.11	0	Ant 3a	DFT-S-OFDM	QPSK	108	54	0 mm	top	1:1	0.274	17.76	
1745.00	349000	Mid	NR Band n66 (AWS)	40	12.99	0	Ant 3a	DFT-S-OFDM	QPSK	1	108	0 mm	bottom	1:1	0.007	33.57	
1745.00	349000	Mid	NR Band n66 (AWS)	40	13.11	0	Ant 3a	DFT-S-OFDM	QPSK	108	54	0 mm	bottom	1:1	0.000	42.14	
1745.00	349000	Mid	NR Band n66 (AWS)	40	12.99	0	Ant 3a	DFT-S-OFDM	QPSK	1	108	0 mm	right	1:1	0.801	12.98	
1745.00	349000	Mid	NR Band n66 (AWS)	40	13.11	0	Ant 3a	DFT-S-OFDM	QPSK	108	54	0 mm	right	1:1	0.814	13.03	
1745.00	349000	Mid	NR Band n66 (AWS)	40	12.90	0	Ant 3a	DFT-S-OFDM	QPSK	216	0	0 mm	right	1:1	0.812	12.84	
1745.00	349000	Mid	NR Band n66 (AWS)	40	13.10	0	Ant 3a	CP-OFDM	QPSK	1	1	0 mm	right	1:1	0.715	13.59	
1745.00	349000	Mid	NR Band n66 (AWS)	40	12.99	0	Ant 3a	DFT-S-OFDM	QPSK	1	108	0 mm	left	1:1	0.003	37.25	
1745.00	349000	Mid	NR Band n66 (AWS)	40	13.11	0	Ant 3a	DFT-S-OFDM	QPSK	108	54	0 mm	left	1:1	0.002	39.13	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						Body 1.6 W/kg (mW/g) averaged over 1 gram											

FCC ID: BCGA2589	 PCTEST Proud to be part of element	PART 0 SAR CHAR REPORT	Approved by: Quality Manager
Test Dates: 12/07/2021 – 01/03/2022	DUT Type: Tablet Device	APPENDIX A: Page 40 of 54	

Table A-55
DSI = 1 P_{Limit} Calculations – Antenna 2a NR Band n66

MEASUREMENT RESULTS																	
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Antenna Config	Waveform	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.	(W/kg)													[dBm]	[dBm]	
1745.00	349000	Mid	NR Band n66 (AWS)	40	13.49	0	Ant 2a	DFT-S-OFDM	QPSK	1	1	0 mm	back	1:1	0.974	12.64	12.64
1745.00	349000	Mid	NR Band n66 (AWS)	40	13.37	0	Ant 2a	DFT-S-OFDM	QPSK	108	54	0 mm	back	1:1	0.902	12.85	
1745.00	349000	Mid	NR Band n66 (AWS)	40	13.18	0	Ant 2a	DFT-S-OFDM	QPSK	216	0	0 mm	back	1:1	0.816	13.09	
1745.00	349000	Mid	NR Band n66 (AWS)	40	13.30	0	Ant 2a	CP-OFDM	QPSK	1	1	0 mm	back	1:1	0.859	12.99	
1745.00	349000	Mid	NR Band n66 (AWS)	40	13.49	0	Ant 2a	DFT-S-OFDM	QPSK	1	1	0 mm	top	1:1	0.004	36.50	
1745.00	349000	Mid	NR Band n66 (AWS)	40	13.37	0	Ant 2a	DFT-S-OFDM	QPSK	108	54	0 mm	top	1:1	0.003	37.63	
1745.00	349000	Mid	NR Band n66 (AWS)	40	13.49	0	Ant 2a	DFT-S-OFDM	QPSK	1	1	0 mm	bottom	1:1	0.237	18.77	
1745.00	349000	Mid	NR Band n66 (AWS)	40	13.37	0	Ant 2a	DFT-S-OFDM	QPSK	108	54	0 mm	bottom	1:1	0.260	18.25	
1745.00	349000	Mid	NR Band n66 (AWS)	40	13.49	0	Ant 2a	DFT-S-OFDM	QPSK	1	1	0 mm	right	1:1	0.673	14.24	
1745.00	349000	Mid	NR Band n66 (AWS)	40	13.37	0	Ant 2a	DFT-S-OFDM	QPSK	108	54	0 mm	right	1:1	0.654	14.25	
1745.00	349000	Mid	NR Band n66 (AWS)	40	13.49	0	Ant 2a	DFT-S-OFDM	QPSK	1	1	0 mm	left	1:1	0.000	42.52	
1745.00	349000	Mid	NR Band n66 (AWS)	40	13.37	0	Ant 2a	DFT-S-OFDM	QPSK	108	54	0 mm	left	1:1	0.000	42.40	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						Body 1.6 W/kg (mW/g) averaged over 1 gram											

Table A-56
DSI = 1 P_{Limit} Calculations – Antenna 1a NR Band n66

MEASUREMENT RESULTS																	
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Antenna Config	Waveform	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.	(W/kg)													[dBm]	[dBm]	
1745.00	349000	Mid	NR Band n66 (AWS)	40	14.78	0	Ant 1a	DFT-S-OFDM	QPSK	1	108	0 mm	back	1:1	0.784	14.87	14.67
1745.00	349000	Mid	NR Band n66 (AWS)	40	14.83	0	Ant 1a	DFT-S-OFDM	QPSK	108	54	0 mm	back	1:1	0.771	14.99	
1745.00	349000	Mid	NR Band n66 (AWS)	40	14.72	0	Ant 1a	DFT-S-OFDM	QPSK	216	0	0 mm	back	1:1	0.781	14.82	
1745.00	349000	Mid	NR Band n66 (AWS)	40	14.78	0	Ant 1a	DFT-S-OFDM	QPSK	1	108	0 mm	top	1:1	0.024	30.01	
1745.00	349000	Mid	NR Band n66 (AWS)	40	14.83	0	Ant 1a	DFT-S-OFDM	QPSK	108	54	0 mm	top	1:1	0.024	30.06	
1745.00	349000	Mid	NR Band n66 (AWS)	40	14.78	0	Ant 1a	DFT-S-OFDM	QPSK	1	108	0 mm	bottom	1:1	0.361	18.24	
1745.00	349000	Mid	NR Band n66 (AWS)	40	14.83	0	Ant 1a	DFT-S-OFDM	QPSK	108	54	0 mm	bottom	1:1	0.360	18.30	
1745.00	349000	Mid	NR Band n66 (AWS)	40	14.78	0	Ant 1a	DFT-S-OFDM	QPSK	1	108	0 mm	right	1:1	0.002	40.80	
1745.00	349000	Mid	NR Band n66 (AWS)	40	14.83	0	Ant 1a	DFT-S-OFDM	QPSK	108	54	0 mm	right	1:1	0.003	39.09	
1745.00	349000	Mid	NR Band n66 (AWS)	40	14.78	0	Ant 1a	DFT-S-OFDM	QPSK	1	108	0 mm	left	1:1	0.796	14.80	
1745.00	349000	Mid	NR Band n66 (AWS)	40	14.83	0	Ant 1a	DFT-S-OFDM	QPSK	108	54	0 mm	left	1:1	0.814	14.75	
1745.00	349000	Mid	NR Band n66 (AWS)	40	14.72	0	Ant 1a	DFT-S-OFDM	QPSK	216	0	0 mm	left	1:1	0.810	14.67	
1745.00	349000	Mid	NR Band n66 (AWS)	40	14.76	0	Ant 1a	CP-OFDM	QPSK	1	1	0 mm	left	1:1	0.774	14.90	
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: BCGA2589	 PCTEST Proud to be part of element	PART 0 SAR CHAR REPORT	Approved by: Quality Manager
Test Dates: 12/07/2021 – 01/03/2022	DUT Type: Tablet Device	APPENDIX A: Page 41 of 54	

Table A-57
DSI = 1 P_{Limit} Calculations – Antenna 4 NR Band n25

MEASUREMENT RESULTS																
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Antenna Config	Waveform	Modulation	RB Size	RB Offset	Spacing	MPR [dB]	Duty Cycle	SAR (1g)	Plimit
MHz	Ch.														(W/kg)	[dBm]
1882.50	376500	Mid	NR Band n25 (PCS)	40	14.55	0	Ant 4	DFT-S-OFDM	QPSK	1	1	0 mm	back	1:1	0.812	14.49
1882.50	376500	Mid	NR Band n25 (PCS)	40	14.29	0	Ant 4	DFT-S-OFDM	QPSK	108	0	0 mm	back	1:1	0.675	15.03
1882.50	376500	Mid	NR Band n25 (PCS)	40	14.21	0	Ant 4	DFT-S-OFDM	QPSK	216	0	0 mm	back	1:1	0.669	14.99
1882.50	376500	Mid	NR Band n25 (PCS)	40	14.38	0	Ant 4	CP-OFDM	QPSK	1	1	0 mm	back	1:1	0.756	14.63
1882.50	376500	Mid	NR Band n25 (PCS)	40	14.55	0	Ant 4	DFT-S-OFDM	QPSK	1	1	0 mm	top	1:1	0.730	14.95
1882.50	376500	Mid	NR Band n25 (PCS)	40	14.29	0	Ant 4	DFT-S-OFDM	QPSK	108	0	0 mm	top	1:1	0.656	15.15
1882.50	376500	Mid	NR Band n25 (PCS)	40	14.21	0	Ant 4	DFT-S-OFDM	QPSK	216	0	0 mm	top	1:1	0.527	16.02
1882.50	376500	Mid	NR Band n25 (PCS)	40	14.55	0	Ant 4	DFT-S-OFDM	QPSK	1	1	0 mm	bottom	1:1	0.000	43.58
1882.50	376500	Mid	NR Band n25 (PCS)	40	14.29	0	Ant 4	DFT-S-OFDM	QPSK	108	0	0 mm	bottom	1:1	0.000	43.32
1882.50	376500	Mid	NR Band n25 (PCS)	40	14.55	0	Ant 4	DFT-S-OFDM	QPSK	1	1	0 mm	right	1:1	0.025	29.60
1882.50	376500	Mid	NR Band n25 (PCS)	40	14.29	0	Ant 4	DFT-S-OFDM	QPSK	108	0	0 mm	right	1:1	0.021	30.10
1882.50	376500	Mid	NR Band n25 (PCS)	40	14.55	0	Ant 4	DFT-S-OFDM	QPSK	1	1	0 mm	left	1:1	0.262	19.40
1882.50	376500	Mid	NR Band n25 (PCS)	40	14.29	0	Ant 4	DFT-S-OFDM	QPSK	108	0	0 mm	left	1:1	0.227	19.76
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 – Antenna 3a NR Band n25

MEASUREMENT RESULTS																
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Antenna Config	Waveform	Modulation	RB Size	RB Offset	Spacing	MPR [dB]	Duty Cycle	SAR (1g)	Plimit
MHz	Ch.														(W/kg)	[dBm]
1882.50	376500	Mid	NR Band n25 (PCS)	40	12.21	0	Ant 3a	DFT-S-OFDM	QPSK	1	1	0 mm	back	1:1	0.312	16.30
1882.50	376500	Mid	NR Band n25 (PCS)	40	12.13	0	Ant 3a	DFT-S-OFDM	QPSK	108	0	0 mm	back	1:1	0.302	16.36
1882.50	376500	Mid	NR Band n25 (PCS)	40	12.21	0	Ant 3a	DFT-S-OFDM	QPSK	1	1	0 mm	top	1:1	0.222	17.78
1882.50	376500	Mid	NR Band n25 (PCS)	40	12.13	0	Ant 3a	DFT-S-OFDM	QPSK	108	0	0 mm	top	1:1	0.206	18.02
1882.50	376500	Mid	NR Band n25 (PCS)	40	12.21	0	Ant 3a	DFT-S-OFDM	QPSK	1	1	0 mm	bottom	1:1	0.004	35.22
1882.50	376500	Mid	NR Band n25 (PCS)	40	12.13	0	Ant 3a	DFT-S-OFDM	QPSK	108	0	0 mm	bottom	1:1	0.000	41.16
1882.50	376500	Mid	NR Band n25 (PCS)	40	12.21	0	Ant 3a	DFT-S-OFDM	QPSK	1	1	0 mm	right	1:1	0.597	13.48
1882.50	376500	Mid	NR Band n25 (PCS)	40	12.13	0	Ant 3a	DFT-S-OFDM	QPSK	108	0	0 mm	right	1:1	0.573	13.58
1882.50	376500	Mid	NR Band n25 (PCS)	40	12.12	0	Ant 3a	DFT-S-OFDM	QPSK	216	0	0 mm	right	1:1	0.572	13.58
1882.50	376500	Mid	NR Band n25 (PCS)	40	12.13	0	Ant 3a	CP-OFDM	QPSK	1	1	0 mm	right	1:1	0.633	13.15
1882.50	376500	Mid	NR Band n25 (PCS)	40	12.21	0	Ant 3a	DFT-S-OFDM	QPSK	1	1	0 mm	left	1:1	0.006	33.46
1882.50	376500	Mid	NR Band n25 (PCS)	40	12.13	0	Ant 3a	DFT-S-OFDM	QPSK	108	0	0 mm	left	1:1	0.003	36.39
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: BCGA2589	 PCTEST Proud to be part of element	PART 0 SAR CHAR REPORT	Approved by: Quality Manager
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Table A-59
DSI = 1 P_{Limit} Calculations – Antenna 2a NR Band n25

MEASUREMENT RESULTS																	
FREQUENCY		Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Antenna Config	Waveform	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plimit	Minimum Plimit	
MHz	Ch.													(W/kg)	[dBm]	[dBm]	
1882.50	376500	Mid	NR Band n25 (PCS)	40	12.73	0	Ant 2a	DFT-S-OFDM	QPSK	1	214	0 mm	back	1:1	0.686	13.40	13.13
1882.50	376500	Mid	NR Band n25 (PCS)	40	12.62	0	Ant 2a	DFT-S-OFDM	QPSK	108	108	0 mm	back	1:1	0.680	13.33	
1882.50	376500	Mid	NR Band n25 (PCS)	40	12.60	0	Ant 2a	DFT-S-OFDM	QPSK	216	0	0 mm	back	1:1	0.700	13.18	
1882.50	376500	Mid	NR Band n25 (PCS)	40	12.64	0	Ant 2a	CP-OFDM	QPSK	1	1	0 mm	back	1:1	0.714	13.13	
1882.50	376500	Mid	NR Band n25 (PCS)	40	12.73	0	Ant 2a	DFT-S-OFDM	QPSK	1	214	0 mm	top	1:1	0.011	31.35	
1882.50	376500	Mid	NR Band n25 (PCS)	40	12.62	0	Ant 2a	DFT-S-OFDM	QPSK	108	108	0 mm	top	1:1	0.014	30.19	
1882.50	376500	Mid	NR Band n25 (PCS)	40	12.73	0	Ant 2a	DFT-S-OFDM	QPSK	1	214	0 mm	bottom	1:1	0.369	16.09	
1882.50	376500	Mid	NR Band n25 (PCS)	40	12.62	0	Ant 2a	DFT-S-OFDM	QPSK	108	108	0 mm	bottom	1:1	0.359	16.10	
1882.50	376500	Mid	NR Band n25 (PCS)	40	12.73	0	Ant 2a	DFT-S-OFDM	QPSK	1	214	0 mm	right	1:1	0.461	15.12	
1882.50	376500	Mid	NR Band n25 (PCS)	40	12.62	0	Ant 2a	DFT-S-OFDM	QPSK	108	108	0 mm	right	1:1	0.455	15.07	
1882.50	376500	Mid	NR Band n25 (PCS)	40	12.73	0	Ant 2a	DFT-S-OFDM	QPSK	1	214	0 mm	left	1:1	0.000	41.76	
1882.50	376500	Mid	NR Band n25 (PCS)	40	12.62	0	Ant 2a	DFT-S-OFDM	QPSK	108	108	0 mm	left	1:1	0.000	41.65	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT						Body 1.6 W/kg (mW/g) averaged over 1 gram											
Spatial Peak																	
Uncontrolled Exposure/General Population																	

Table A-60
DSI = 1 P_{Limit} Calculations – Antenna 1a NR Band n25

MEASUREMENT RESULTS																	
FREQUENCY		Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Antenna Config	Waveform	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plimit	Minimum Plimit	
MHz	Ch.													(W/kg)	[dBm]	[dBm]	
1882.50	376500	Mid	NR Band n25 (PCS)	40	13.31	0	Ant 1a	DFT-S-OFDM	QPSK	1	1	0 mm	back	1:1	0.676	14.04	14.04
1882.50	376500	Mid	NR Band n25 (PCS)	40	13.03	0	Ant 1a	DFT-S-OFDM	QPSK	108	0	0 mm	back	1:1	0.562	14.56	
1882.50	376500	Mid	NR Band n25 (PCS)	40	13.00	0	Ant 1a	DFT-S-OFDM	QPSK	216	0	0 mm	back	1:1	0.599	14.26	
1882.50	376500	Mid	NR Band n25 (PCS)	40	13.22	0	Ant 1a	CP-OFDM	QPSK	1	1	0 mm	back	1:1	0.648	14.14	
1882.50	376500	Mid	NR Band n25 (PCS)	40	13.31	0	Ant 1a	DFT-S-OFDM	QPSK	1	1	0 mm	top	1:1	0.010	32.34	
1882.50	376500	Mid	NR Band n25 (PCS)	40	13.03	0	Ant 1a	DFT-S-OFDM	QPSK	108	0	0 mm	top	1:1	0.011	31.65	
1882.50	376500	Mid	NR Band n25 (PCS)	40	13.31	0	Ant 1a	DFT-S-OFDM	QPSK	1	1	0 mm	bottom	1:1	0.267	18.08	
1882.50	376500	Mid	NR Band n25 (PCS)	40	13.03	0	Ant 1a	DFT-S-OFDM	QPSK	108	0	0 mm	bottom	1:1	0.258	17.94	
1882.50	376500	Mid	NR Band n25 (PCS)	40	13.31	0	Ant 1a	DFT-S-OFDM	QPSK	1	1	0 mm	right	1:1	0.001	42.34	
1882.50	376500	Mid	NR Band n25 (PCS)	40	13.03	0	Ant 1a	DFT-S-OFDM	QPSK	108	0	0 mm	right	1:1	0.001	42.06	
1882.50	376500	Mid	NR Band n25 (PCS)	40	13.31	0	Ant 1a	DFT-S-OFDM	QPSK	1	1	0 mm	left	1:1	0.551	14.93	
1882.50	376500	Mid	NR Band n25 (PCS)	40	13.03	0	Ant 1a	DFT-S-OFDM	QPSK	108	0	0 mm	left	1:1	0.539	14.75	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT					Body												
Spatial Peak					1.6 W/kg (mW/g)												
Uncontrolled Exposure/General Population					averaged over 1 gram												

FCC ID: BCGA2589	 PCTEST Proud to be part of element	PART 0 SAR CHAR REPORT	Approved by: Quality Manager
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Table A-61
DSI = 1 P_{Limit} Calculations – Antenna 4 NR Band n30

MEAS+C2:AB663UREMENT RESULTS																	
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Antenna Config	Waveform	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.														(W/kg)	[dBm]	[dBm]
2310.00	462000	Mid	NR Band n30	10	13.71	0	Ant 4	DFT-S-OFDM	QPSK	1	50	0 mm	back	1:1	0.703	14.27	13.60
2310.00	462000	Mid	NR Band n30	10	13.60	0	Ant 4	DFT-S-OFDM	QPSK	25	14	0 mm	back	1:1	0.752	13.87	
2310.00	462000	Mid	NR Band n30	10	13.58	0	Ant 4	DFT-S-OFDM	QPSK	50	0	0 mm	back	1:1	0.757	13.82	
2310.00	462000	Mid	NR Band n30	10	13.71	0	Ant 4	DFT-S-OFDM	QPSK	1	50	0 mm	top	1:1	0.406	16.66	
2310.00	462000	Mid	NR Band n30	10	13.60	0	Ant 4	DFT-S-OFDM	QPSK	25	14	0 mm	top	1:1	0.429	16.31	
2310.00	462000	Mid	NR Band n30	10	13.71	0	Ant 4	DFT-S-OFDM	QPSK	1	50	0 mm	bottom	1:1	0.015	30.98	
2310.00	462000	Mid	NR Band n30	10	13.60	0	Ant 4	DFT-S-OFDM	QPSK	25	14	0 mm	bottom	1:1	0.012	31.84	
2310.00	462000	Mid	NR Band n30	10	13.71	0	Ant 4	DFT-S-OFDM	QPSK	1	50	0 mm	right	1:1	0.010	32.74	
2310.00	462000	Mid	NR Band n30	10	13.60	0	Ant 4	DFT-S-OFDM	QPSK	25	14	0 mm	right	1:1	0.010	32.63	
2310.00	462000	Mid	NR Band n30	10	13.71	0	Ant 4	DFT-S-OFDM	QPSK	1	50	0 mm	left	1:1	0.786	13.79	
2310.00	462000	Mid	NR Band n30	10	13.60	0	Ant 4	DFT-S-OFDM	QPSK	25	14	0 mm	left	1:1	0.775	13.74	
2310.00	462000	Mid	NR Band n30	10	13.58	0	Ant 4	DFT-S-OFDM	QPSK	50	0	0 mm	left	1:1	0.786	13.66	
2310.00	462000	Mid	NR Band n30	10	13.59	0	Ant 4	CP-OFDM	QPSK	1	1	0 mm	left	1:1	0.798	13.60	
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-62
DSI = 1 P_{Limit} Calculations – Antenna 3a NR Band n30

MEAS+C2:AB663UREMENT RESULTS																	
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Antenna Config	Waveform	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.														(W/kg)	[dBm]	[dBm]
2310.00	462000	Mid	NR Band n30	10	10.92	0	Ant 3a	DFT-S-OFDM	QPSK	1	50	0 mm	back	1:1	0.271	15.62	11.48
2310.00	462000	Mid	NR Band n30	10	10.83	0	Ant 3a	DFT-S-OFDM	QPSK	25	27	0 mm	back	1:1	0.273	15.50	
2310.00	462000	Mid	NR Band n30	10	10.92	0	Ant 3a	DFT-S-OFDM	QPSK	1	50	0 mm	top	1:1	0.191	17.14	
2310.00	462000	Mid	NR Band n30	10	10.83	0	Ant 3a	DFT-S-OFDM	QPSK	25	27	0 mm	top	1:1	0.178	17.36	
2310.00	462000	Mid	NR Band n30	10	10.92	0	Ant 3a	DFT-S-OFDM	QPSK	1	50	0 mm	bottom	1:1	0.002	36.94	
2310.00	462000	Mid	NR Band n30	10	10.83	0	Ant 3a	DFT-S-OFDM	QPSK	25	27	0 mm	bottom	1:1	0.002	36.85	
2310.00	462000	Mid	NR Band n30	10	10.92	0	Ant 3a	DFT-S-OFDM	QPSK	1	50	0 mm	right	1:1	0.662	11.74	
2310.00	462000	Mid	NR Band n30	10	10.83	0	Ant 3a	DFT-S-OFDM	QPSK	25	27	0 mm	right	1:1	0.689	11.48	
2310.00	462000	Mid	NR Band n30	10	10.75	0	Ant 3a	DFT-S-OFDM	QPSK	50	0	0 mm	right	1:1	0.639	11.73	
2310.00	462000	Mid	NR Band n30	10	10.68	0	Ant 3a	CP-OFDM	QPSK	1	1	0 mm	right	1:1	0.600	11.93	
2310.00	462000	Mid	NR Band n30	10	10.92	0	Ant 3a	DFT-S-OFDM	QPSK	1	50	0 mm	left	1:1	0.002	36.94	
2310.00	462000	Mid	NR Band n30	10	10.83	0	Ant 3a	DFT-S-OFDM	QPSK	25	27	0 mm	left	1:1	0.003	35.09	
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: BCGA2589	 PCTEST Proud to be part of element	PART 0 SAR CHAR REPORT	Approved by: Quality Manager
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Table A-63
DSI = 1 P_{Limit} Calculations – Antenna 2a NR Band n30

MEASUREMENT RESULTS																	
FREQUENCY		Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Antenna Config	Waveform	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plimit	Minimum Plimit	
MHz	Ch.													(W/kg)	[dBm]	[dBm]	
2310.00	462000	Mid	NR Band n30	10	11.11	0	Ant 2a	DFT-S-OFDM	QPSK	1	26	0 mm	back	1:1	0.584	12.48	11.79
2310.00	462000	Mid	NR Band n30	10	11.03	0	Ant 2a	DFT-S-OFDM	QPSK	25	27	0 mm	back	1:1	0.584	12.40	
2310.00	462000	Mid	NR Band n30	10	11.02	0	Ant 2a	DFT-S-OFDM	QPSK	50	0	0 mm	back	1:1	0.626	12.09	
2310.00	462000	Mid	NR Band n30	10	10.76	0	Ant 2a	CP-OFDM	QPSK	1	1	0 mm	back	1:1	0.631	11.79	
2310.00	462000	Mid	NR Band n30	10	11.11	0	Ant 2a	DFT-S-OFDM	QPSK	1	26	0 mm	top	1:1	0.003	35.37	
2310.00	462000	Mid	NR Band n30	10	11.03	0	Ant 2a	DFT-S-OFDM	QPSK	25	27	0 mm	top	1:1	0.003	35.29	
2310.00	462000	Mid	NR Band n30	10	11.11	0	Ant 2a	DFT-S-OFDM	QPSK	1	26	0 mm	bottom	1:1	0.223	16.66	
2310.00	462000	Mid	NR Band n30	10	11.03	0	Ant 2a	DFT-S-OFDM	QPSK	25	27	0 mm	bottom	1:1	0.237	16.31	
2310.00	462000	Mid	NR Band n30	10	11.11	0	Ant 2a	DFT-S-OFDM	QPSK	1	26	0 mm	right	1:1	0.336	14.88	
2310.00	462000	Mid	NR Band n30	10	11.03	0	Ant 2a	DFT-S-OFDM	QPSK	25	27	0 mm	right	1:1	0.332	14.85	
2310.00	462000	Mid	NR Band n30	10	11.11	0	Ant 2a	DFT-S-OFDM	QPSK	1	26	0 mm	left	1:1	0.000	40.14	
2310.00	462000	Mid	NR Band n30	10	11.03	0	Ant 2a	DFT-S-OFDM	QPSK	25	27	0 mm	left	1:1	0.001	40.06	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						Body 1.6 W/kg (mW/g) averaged over 1 gram											

Table A-64
DSI = 1 P_{Limit} Calculations – Antenna 1a NR Band n30

MEASUREMENT RESULTS																	
FREQUENCY		Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Antenna Config	Waveform	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plimit	Minimum Plimit	
MHz	Ch.													(W/kg)	[dBm]	[dBm]	
2310.00	462000	Mid	NR Band n30	10	12.57	0	Ant 1a	DFT-S-OFDM	QPSK	1	26	0 mm	back	1:1	0.650	13.47	13.18
2310.00	462000	Mid	NR Band n30	10	12.46	0	Ant 1a	DFT-S-OFDM	QPSK	25	27	0 mm	back	1:1	0.662	13.28	
2310.00	462000	Mid	NR Band n30	10	12.38	0	Ant 1a	DFT-S-OFDM	QPSK	50	0	0 mm	back	1:1	0.666	13.18	
2310.00	462000	Mid	NR Band n30	10	12.47	0	Ant 1a	CP-OFDM	QPSK	1	1	0 mm	back	1:1	0.660	13.31	
2310.00	462000	Mid	NR Band n30	10	12.57	0	Ant 1a	DFT-S-OFDM	QPSK	1	26	0 mm	top	1:1	0.031	26.69	
2310.00	462000	Mid	NR Band n30	10	12.46	0	Ant 1a	DFT-S-OFDM	QPSK	25	27	0 mm	top	1:1	0.027	27.18	
2310.00	462000	Mid	NR Band n30	10	12.57	0	Ant 1a	DFT-S-OFDM	QPSK	1	26	0 mm	bottom	1:1	0.325	16.48	
2310.00	462000	Mid	NR Band n30	10	12.46	0	Ant 1a	DFT-S-OFDM	QPSK	25	27	0 mm	bottom	1:1	0.314	16.52	
2310.00	462000	Mid	NR Band n30	10	12.57	0	Ant 1a	DFT-S-OFDM	QPSK	1	26	0 mm	right	1:1	0.008	32.57	
2310.00	462000	Mid	NR Band n30	10	12.46	0	Ant 1a	DFT-S-OFDM	QPSK	25	27	0 mm	right	1:1	0.007	33.04	
2310.00	462000	Mid	NR Band n30	10	12.57	0	Ant 1a	DFT-S-OFDM	QPSK	1	26	0 mm	left	1:1	0.599	13.83	
2310.00	462000	Mid	NR Band n30	10	12.46	0	Ant 1a	DFT-S-OFDM	QPSK	25	27	0 mm	left	1:1	0.607	13.66	
2310.00	462000	Mid	NR Band n30	10	12.38	0	Ant 1a	DFT-S-OFDM	QPSK	50	0	0 mm	left	1:1	0.636	13.38	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						Body 1.6 W/kg (mW/g) averaged over 1 gram											

FCC ID: BCGA2589	 PCTEST Proud to be part of element	PART 0 SAR CHAR REPORT	Approved by: Quality Manager
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Table A-65
DSI = 1 P_{Limit} Calculations – Antenna 4 NR Band n7

MEASUREMENT RESULTS																	
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Antenna Config	Waveform	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.	(W/kg)													[dBm]	[dBm]	
2535.00	507000	Mid	NR Band n7	40	13.44	0	Ant 4	DFT-S-OFDM	QPSK	1	1	0 mm	back	1:1	0.798	13.45	13.45
2535.00	507000	Mid	NR Band n7	40	13.36	0	Ant 4	DFT-S-OFDM	QPSK	108	0	0 mm	back	1:1	0.765	13.55	
2535.00	507000	Mid	NR Band n7	40	13.35	0	Ant 4	DFT-S-OFDM	QPSK	216	0	0 mm	back	1:1	0.747	13.65	
2535.00	507000	Mid	NR Band n7	40	13.22	0	Ant 4	CP-OFDM	QPSK	1	1	0 mm	back	1:1	0.756	13.47	
2535.00	507000	Mid	NR Band n7	40	13.44	0	Ant 4	DFT-S-OFDM	QPSK	1	1	0 mm	top	1:1	0.396	16.49	
2535.00	507000	Mid	NR Band n7	40	13.36	0	Ant 4	DFT-S-OFDM	QPSK	108	0	0 mm	top	1:1	0.374	16.66	
2535.00	507000	Mid	NR Band n7	40	13.44	0	Ant 4	DFT-S-OFDM	QPSK	1	1	0 mm	bottom	1:1	0.006	34.69	
2535.00	507000	Mid	NR Band n7	40	13.36	0	Ant 4	DFT-S-OFDM	QPSK	108	0	0 mm	bottom	1:1	0.008	33.36	
2535.00	507000	Mid	NR Band n7	40	13.44	0	Ant 4	DFT-S-OFDM	QPSK	1	1	0 mm	right	1:1	0.019	29.68	
2535.00	507000	Mid	NR Band n7	40	13.36	0	Ant 4	DFT-S-OFDM	QPSK	108	0	0 mm	right	1:1	0.021	29.17	
2535.00	507000	Mid	NR Band n7	40	13.44	0	Ant 4	DFT-S-OFDM	QPSK	1	1	0 mm	left	1:1	0.701	14.01	
2535.00	507000	Mid	NR Band n7	40	13.36	0	Ant 4	DFT-S-OFDM	QPSK	108	0	0 mm	left	1:1	0.682	14.05	
2535.00	507000	Mid	NR Band n7	40	13.35	0	Ant 4	DFT-S-OFDM	QPSK	216	0	0 mm	left	1:1	0.679	14.06	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						Body 1.6 W/kg (mW/g) averaged over 1 gram											

Table A-66
DSI = 1 P_{Limit} Calculations – Antenna 3a NR Band n7

MEASUREMENT RESULTS																	
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Antenna Config	Waveform	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.														(W/kg)	[dBm]	[dBm]
2535.00	507000	Mid	NR Band n7	40	11.07	0	Ant 3a	DFT-S-OFDM	QPSK	1	1	0 mm	back	1:1	0.451	13.56	11.33
2535.00	507000	Mid	NR Band n7	40	11.10	0	Ant 3a	DFT-S-OFDM	QPSK	108	54	0 mm	back	1:1	0.464	13.47	
2535.00	507000	Mid	NR Band n7	40	11.07	0	Ant 3a	DFT-S-OFDM	QPSK	1	1	0 mm	top	1:1	0.297	15.37	
2535.00	507000	Mid	NR Band n7	40	11.10	0	Ant 3a	DFT-S-OFDM	QPSK	108	54	0 mm	top	1:1	0.314	15.16	
2535.00	507000	Mid	NR Band n7	40	11.07	0	Ant 3a	DFT-S-OFDM	QPSK	1	1	0 mm	bottom	1:1	0.003	35.33	
2535.00	507000	Mid	NR Band n7	40	11.10	0	Ant 3a	DFT-S-OFDM	QPSK	108	54	0 mm	bottom	1:1	0.003	35.36	
2535.00	507000	Mid	NR Band n7	40	11.07	0	Ant 3a	DFT-S-OFDM	QPSK	1	1	0 mm	right	1:1	0.707	11.61	
2535.00	507000	Mid	NR Band n7	40	11.10	0	Ant 3a	DFT-S-OFDM	QPSK	108	54	0 mm	right	1:1	0.654	11.97	
2535.00	507000	Mid	NR Band n7	40	11.06	0	Ant 3a	DFT-S-OFDM	QPSK	216	0	0 mm	right	1:1	0.675	11.80	
2535.00	507000	Mid	NR Band n7	40	10.97	0	Ant 3a	CP-OFDM	QPSK	1	1	0 mm	right	1:1	0.737	11.33	
2535.00	507000	Mid	NR Band n7	40	11.07	0	Ant 3a	DFT-S-OFDM	QPSK	1	1	0 mm	left	1:1	0.015	28.34	
2535.00	507000	Mid	NR Band n7	40	11.10	0	Ant 3a	DFT-S-OFDM	QPSK	108	54	0 mm	left	1:1	0.013	28.99	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						Body 1.6 W/kg (mW/g) averaged over 1 gram											

FCC ID: BCGA2589	 PCTEST Proud to be part of element	PART 0 SAR CHAR REPORT	Approved by: Quality Manager
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Table A-67
DSI = 1 P_{Limit} Calculations – Antenna 2a NR Band n7

MEASUREMENT RESULTS																	
FREQUENCY		Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Antenna Config	Waveform	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plimit	Minimum Plimit	
MHz	Ch.													(W/kg)	[dBm]	[dBm]	
2535.00	507000	Mid	NR Band n7	40	13.08	0	Ant 2a	DFT-S-OFDM	QPSK	1	108	0 mm	back	1:1	0.723	13.52	13.43
2535.00	507000	Mid	NR Band n7	40	13.11	0	Ant 2a	DFT-S-OFDM	QPSK	108	108	0 mm	back	1:1	0.715	13.60	
2535.00	507000	Mid	NR Band n7	40	13.04	0	Ant 2a	DFT-S-OFDM	QPSK	216	0	0 mm	back	1:1	0.731	13.43	
2535.00	507000	Mid	NR Band n7	40	13.03	0	Ant 2a	CP-OFDM	QPSK	1	1	0 mm	back	1:1	0.704	13.59	
2535.00	507000	Mid	NR Band n7	40	13.08	0	Ant 2a	DFT-S-OFDM	QPSK	1	108	0 mm	top	1:1	0.016	30.07	
2535.00	507000	Mid	NR Band n7	40	13.11	0	Ant 2a	DFT-S-OFDM	QPSK	108	108	0 mm	top	1:1	0.016	30.10	
2535.00	507000	Mid	NR Band n7	40	13.08	0	Ant 2a	DFT-S-OFDM	QPSK	1	108	0 mm	bottom	1:1	0.495	15.16	
2535.00	507000	Mid	NR Band n7	40	13.11	0	Ant 2a	DFT-S-OFDM	QPSK	108	108	0 mm	bottom	1:1	0.475	15.37	
2535.00	507000	Mid	NR Band n7	40	13.08	0	Ant 2a	DFT-S-OFDM	QPSK	1	108	0 mm	right	1:1	0.445	15.63	
2535.00	507000	Mid	NR Band n7	40	13.11	0	Ant 2a	DFT-S-OFDM	QPSK	108	108	0 mm	right	1:1	0.470	15.42	
2535.00	507000	Mid	NR Band n7	40	13.08	0	Ant 2a	DFT-S-OFDM	QPSK	1	108	0 mm	left	1:1	0.000	42.11	
2535.00	507000	Mid	NR Band n7	40	13.11	0	Ant 2a	DFT-S-OFDM	QPSK	108	108	0 mm	left	1:1	0.000	42.14	
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-68
DSI = 1 P_{Limit} Calculations – Antenna 1a NR Band n7

MEASUREMENT RESULTS																	
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Antenna Config	Waveform	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.														(W/kg)	[dBm]	[dBm]
2535.00	507000	Mid	NR Band n7	40	12.30	0	Ant 1a	DFT-S-OFDM	QPSK	1	108	0 mm	back	1:1	0.619	13.41	12.26
2535.00	507000	Mid	NR Band n7	40	12.33	0	Ant 1a	DFT-S-OFDM	QPSK	108	0	0 mm	back	1:1	0.681	13.03	
2535.00	507000	Mid	NR Band n7	40	12.24	0	Ant 1a	DFT-S-OFDM	QPSK	216	0	0 mm	back	1:1	0.674	12.98	
2535.00	507000	Mid	NR Band n7	40	12.05	0	Ant 1a	CP-OFDM	QPSK	1	1	0 mm	back	1:1	0.762	12.26	
2535.00	507000	Mid	NR Band n7	40	12.30	0	Ant 1a	DFT-S-OFDM	QPSK	1	108	0 mm	top	1:1	0.016	29.29	
2535.00	507000	Mid	NR Band n7	40	12.33	0	Ant 1a	DFT-S-OFDM	QPSK	108	0	0 mm	top	1:1	0.013	30.22	
2535.00	507000	Mid	NR Band n7	40	12.30	0	Ant 1a	DFT-S-OFDM	QPSK	1	108	0 mm	bottom	1:1	0.320	16.28	
2535.00	507000	Mid	NR Band n7	40	12.33	0	Ant 1a	DFT-S-OFDM	QPSK	108	0	0 mm	bottom	1:1	0.358	15.82	
2535.00	507000	Mid	NR Band n7	40	12.30	0	Ant 1a	DFT-S-OFDM	QPSK	1	108	0 mm	right	1:1	0.013	30.19	
2535.00	507000	Mid	NR Band n7	40	12.33	0	Ant 1a	DFT-S-OFDM	QPSK	108	0	0 mm	right	1:1	0.012	30.57	
2535.00	507000	Mid	NR Band n7	40	12.30	0	Ant 1a	DFT-S-OFDM	QPSK	1	108	0 mm	left	1:1	0.506	14.29	
2535.00	507000	Mid	NR Band n7	40	12.33	0	Ant 1a	DFT-S-OFDM	QPSK	108	0	0 mm	left	1:1	0.510	14.29	
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: BCGA2589	 PCTEST Proud to be part of element	PART 0 SAR CHAR REPORT	Approved by: Quality Manager
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Table A-69
DSI = 1 P_{Limit} Calculations – Antenna 4 NR Band n41 PC2

MEASUREMENT RESULTS																	
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Antenna Config	Waveform	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plimit	Minimum Plimit
															(W/kg)	[dBm]	[dBm]
2592.99	518598	Mid	NR Band n41	100	12.52	0	Ant 4	DFT-S-OFDM	QPSK	1	1	0 mm	back	1:1	0.589	13.85	13.22
2592.99	518598	Mid	NR Band n41	100	12.40	0	Ant 4	DFT-S-OFDM	QPSK	135	0	0 mm	back	1:1	0.663	13.22	
2592.99	518598	Mid	NR Band n41	100	12.38	0	Ant 4	DFT-S-OFDM	QPSK	270	0	0 mm	back	1:1	0.655	13.25	
2592.99	518598	Mid	NR Band n41	100	12.38	0	Ant 4	CP-OFDM	QPSK	1	1	0 mm	back	1:1	0.635	13.38	
2592.99	518598	Mid	NR Band n41	100	12.52	0	Ant 4	DFT-S-OFDM	QPSK	1	1	0 mm	top	1:1	0.511	14.47	
2592.99	518598	Mid	NR Band n41	100	12.40	0	Ant 4	DFT-S-OFDM	QPSK	135	0	0 mm	top	1:1	0.500	14.44	
2592.99	518598	Mid	NR Band n41	100	12.38	0	Ant 4	DFT-S-OFDM	QPSK	270	0	0 mm	top	1:1	0.489	14.52	
2592.99	518598	Mid	NR Band n41	100	12.52	0	Ant 4	DFT-S-OFDM	QPSK	1	1	0 mm	bottom	1:1	0.010	31.55	
2592.99	518598	Mid	NR Band n41	100	12.40	0	Ant 4	DFT-S-OFDM	QPSK	135	0	0 mm	bottom	1:1	0.014	29.97	
2592.99	518598	Mid	NR Band n41	100	12.52	0	Ant 4	DFT-S-OFDM	QPSK	1	1	0 mm	right	1:1	0.007	33.10	
2592.99	518598	Mid	NR Band n41	100	12.40	0	Ant 4	DFT-S-OFDM	QPSK	135	0	0 mm	right	1:1	0.012	30.64	
2592.99	518598	Mid	NR Band n41	100	12.52	0	Ant 4	DFT-S-OFDM	QPSK	1	1	0 mm	left	1:1	0.501	14.55	
2592.99	518598	Mid	NR Band n41	100	12.40	0	Ant 4	DFT-S-OFDM	QPSK	135	0	0 mm	left	1:1	0.541	14.10	
2592.99	518598	Mid	NR Band n41	100	12.38	0	Ant 4	DFT-S-OFDM	QPSK	270	0	0 mm	left	1:1	0.569	13.86	
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-70
DSI = 1 P_{Limit} Calculations – Antenna 3a NR Band n41 PC2

MEASUREMENT RESULTS																	
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Antenna Config	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	12.12	0	Ant 3a	DFT-S-OFDM	QPSK	1	1	0 mm	back	1:1	0.488	14.27	11.85
2592.99	518598	Mid	NR Band n41	100	11.86	0	Ant 3a	DFT-S-OFDM	QPSK	135	69	0 mm	back	1:1	0.333	15.67	
2592.99	518598	Mid	NR Band n41	100	12.12	0	Ant 3a	DFT-S-OFDM	QPSK	1	1	0 mm	top	1:1	0.409	15.03	
2592.99	518598	Mid	NR Band n41	100	11.86	0	Ant 3a	DFT-S-OFDM	QPSK	135	69	0 mm	top	1:1	0.251	16.89	
2592.99	518598	Mid	NR Band n41	100	12.12	0	Ant 3a	DFT-S-OFDM	QPSK	1	1	0 mm	bottom	1:1	0.008	32.12	
2592.99	518598	Mid	NR Band n41	100	11.86	0	Ant 3a	DFT-S-OFDM	QPSK	135	69	0 mm	bottom	1:1	0.009	31.35	
2592.99	518598	Mid	NR Band n41	100	12.12	0	Ant 3a	DFT-S-OFDM	QPSK	1	1	0 mm	right	1:1	0.851	11.85	
2592.99	518598	Mid	NR Band n41	100	11.86	0	Ant 3a	DFT-S-OFDM	QPSK	135	69	0 mm	right	1:1	0.699	12.45	
2592.99	518598	Mid	NR Band n41	100	11.80	0	Ant 3a	DFT-S-OFDM	QPSK	270	0	0 mm	right	1:1	0.714	12.29	
2592.99	518598	Mid	NR Band n41	100	11.96	0	Ant 3a	CP-OFDM	QPSK	1	1	0 mm	right	1:1	0.819	11.86	
2592.99	518598	Mid	NR Band n41	100	12.12	0	Ant 3a	DFT-S-OFDM	QPSK	1	1	0 mm	left	1:1	0.000	41.15	
2592.99	518598	Mid	NR Band n41	100	11.86	0	Ant 3a	DFT-S-OFDM	QPSK	135	69	0 mm	left	1:1	0.000	40.89	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT						Body											
Spatial Peak						1.6 W/kg (mW/g)											
Uncontrolled Exposure/General Population						averaged over 1 gram											

FCC ID: BCGA2589	 PCTEST Proud to be part of element	PART 0 SAR CHAR REPORT	Approved by: Quality Manager
Test Dates: 12/07/2021 – 01/03/2022	DUT Type: Tablet Device	APPENDIX A: Page 48 of 54	

Table A-71
DSI = 1 P_{Limit} Calculations – Antenna 2a NR Band n41 PC2

MEASUREMENT RESULTS																	
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Antenna Config	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	12.48	0	Ant 2a	DFT-S-OFDM	QPSK	1	137	0 mm	back	1:1	0.740	12.82	12.57
2592.99	518598	Mid	NR Band n41	100	12.35	0	Ant 2a	DFT-S-OFDM	QPSK	135	69	0 mm	back	1:1	0.720	12.81	
2592.99	518598	Mid	NR Band n41	100	12.34	0	Ant 2a	DFT-S-OFDM	QPSK	270	0	0 mm	back	1:1	0.732	12.73	
2592.99	518598	Mid	NR Band n41	100	12.39	0	Ant 2a	CP-OFDM	QPSK	1	1	0 mm	back	1:1	0.768	12.57	
2592.99	518598	Mid	NR Band n41	100	12.48	0	Ant 2a	DFT-S-OFDM	QPSK	1	137	0 mm	top	1:1	0.016	29.47	
2592.99	518598	Mid	NR Band n41	100	12.35	0	Ant 2a	DFT-S-OFDM	QPSK	135	69	0 mm	top	1:1	0.014	29.92	
2592.99	518598	Mid	NR Band n41	100	12.48	0	Ant 2a	DFT-S-OFDM	QPSK	1	137	0 mm	bottom	1:1	0.461	14.87	
2592.99	518598	Mid	NR Band n41	100	12.35	0	Ant 2a	DFT-S-OFDM	QPSK	135	69	0 mm	bottom	1:1	0.447	14.88	
2592.99	518598	Mid	NR Band n41	100	12.48	0	Ant 2a	DFT-S-OFDM	QPSK	1	137	0 mm	right	1:1	0.506	14.47	
2592.99	518598	Mid	NR Band n41	100	12.35	0	Ant 2a	DFT-S-OFDM	QPSK	135	69	0 mm	right	1:1	0.498	14.41	
2592.99	518598	Mid	NR Band n41	100	12.34	0	Ant 2a	DFT-S-OFDM	QPSK	270	0	0 mm	right	1:1	0.513	14.27	
2592.99	518598	Mid	NR Band n41	100	12.48	0	Ant 2a	DFT-S-OFDM	QPSK	1	137	0 mm	left	1:1	0.002	38.50	
2592.99	518598	Mid	NR Band n41	100	12.35	0	Ant 2a	DFT-S-OFDM	QPSK	135	69	0 mm	left	1:1	0.000	41.38	
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-72
DSI = 1 P_{Limit} Calculations – Antenna 1a NR Band n41 PC2

MEASUREMENT RESULTS																	
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Antenna Config	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	13.40	0	Ant 1a	DFT-S-OFDM	QPSK	1	1	0 mm	back	1:1	0.806	13.37	13.34
2592.99	518598	Mid	NR Band n41	100	13.30	0	Ant 1a	DFT-S-OFDM	QPSK	135	0	0 mm	back	1:1	0.750	13.58	
2592.99	518598	Mid	NR Band n41	100	13.20	0	Ant 1a	DFT-S-OFDM	QPSK	270	0	0 mm	back	1:1	0.732	13.59	
2592.99	518598	Mid	NR Band n41	100	13.26	0	Ant 1a	CP-OFDM	QPSK	1	1	0 mm	back	1:1	0.786	13.34	
2592.99	518598	Mid	NR Band n41	100	13.40	0	Ant 1a	DFT-S-OFDM	QPSK	1	1	0 mm	top	1:1	0.014	30.97	
2592.99	518598	Mid	NR Band n41	100	13.30	0	Ant 1a	DFT-S-OFDM	QPSK	135	0	0 mm	top	1:1	0.009	32.79	
2592.99	518598	Mid	NR Band n41	100	13.40	0	Ant 1a	DFT-S-OFDM	QPSK	1	1	0 mm	bottom	1:1	0.359	16.88	
2592.99	518598	Mid	NR Band n41	100	13.30	0	Ant 1a	DFT-S-OFDM	QPSK	135	0	0 mm	bottom	1:1	0.360	16.77	
2592.99	518598	Mid	NR Band n41	100	13.40	0	Ant 1a	DFT-S-OFDM	QPSK	1	1	0 mm	right	1:1	0.000	42.43	
2592.99	518598	Mid	NR Band n41	100	13.30	0	Ant 1a	DFT-S-OFDM	QPSK	135	0	0 mm	right	1:1	0.000	42.33	
2592.99	518598	Mid	NR Band n41	100	13.40	0	Ant 1a	DFT-S-OFDM	QPSK	1	1	0 mm	left	1:1	0.658	14.25	
2592.99	518598	Mid	NR Band n41	100	13.30	0	Ant 1a	DFT-S-OFDM	QPSK	135	0	0 mm	left	1:1	0.665	14.10	
2592.99	518598	Mid	NR Band n41	100	13.20	0	Ant 1a	DFT-S-OFDM	QPSK	270	0	0 mm	left	1:1	0.728	13.61	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						Body 1.6 W/kg (mW/g) averaged over 1 gram											

FCC ID: BCGA2589	 PCTEST Proud to be part of element	PART 0 SAR CHAR REPORT	Approved by: Quality Manager
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Table A-73
DSI = 1 P_{Limit} Calculations – Antenna 4 NR Band n77 DOD PC2

MEASUREMENT RESULTS																	
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Antenna Config	Waveform	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.	(W/kg)													[dBm]	[dBm]	
3500.01	633334	Mid	NR Band n77	100	10.60	0	Ant 4	DFT-S-OFDM	QPSK	1	1	0 mm	back	1:1	0.557	12.17	12.17
3500.01	633334	Mid	NR Band n77	100	10.54	0	Ant 4	DFT-S-OFDM	QPSK	135	69	0 mm	back	1:1	0.439	13.15	
3500.01	633334	Mid	NR Band n77	100	10.44	0	Ant 4	DFT-S-OFDM	QPSK	270	0	0 mm	back	1:1	0.519	12.32	
3500.01	633334	Mid	NR Band n77	100	10.53	0	Ant 4	CP-OFDM	QPSK	1	1	0 mm	back	1:1	0.384	13.72	
3500.01	633334	Mid	NR Band n77	100	10.60	0	Ant 4	DFT-S-OFDM	QPSK	1	1	0 mm	top	1:1	0.122	18.77	
3500.01	633334	Mid	NR Band n77	100	10.54	0	Ant 4	DFT-S-OFDM	QPSK	135	69	0 mm	top	1:1	0.138	18.17	
3500.01	633334	Mid	NR Band n77	100	10.60	0	Ant 4	DFT-S-OFDM	QPSK	1	1	0 mm	bottom	1:1	0.003	34.86	
3500.01	633334	Mid	NR Band n77	100	10.54	0	Ant 4	DFT-S-OFDM	QPSK	135	69	0 mm	bottom	1:1	0.005	32.58	
3500.01	633334	Mid	NR Band n77	100	10.60	0	Ant 4	DFT-S-OFDM	QPSK	1	1	0 mm	right	1:1	0.000	39.63	
3500.01	633334	Mid	NR Band n77	100	10.54	0	Ant 4	DFT-S-OFDM	QPSK	135	69	0 mm	right	1:1	0.000	39.57	
3500.01	633334	Mid	NR Band n77	100	10.60	0	Ant 4	DFT-S-OFDM	QPSK	1	1	0 mm	left	1:1	0.239	15.85	
3500.01	633334	Mid	NR Band n77	100	10.54	0	Ant 4	DFT-S-OFDM	QPSK	135	69	0 mm	left	1:1	0.239	15.79	
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-74
DSI = 1 P_{Limit} Calculations – Antenna 3b NR Band n77 DOD PC2

MEASUREMENT RESULTS																	
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Antenna Config	Waveform	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.														(W/kg)	[dBm]	[dBm]
3500.01	633334	Mid	NR Band n77	100	13.40	0	Ant 3b	DFT-S-OFDM	QPSK	1	137	0 mm	back	1:1	0.719	13.86	13.45
3500.01	633334	Mid	NR Band n77	100	13.35	0	Ant 3b	DFT-S-OFDM	QPSK	135	69	0 mm	back	1:1	0.716	13.83	
3500.01	633334	Mid	NR Band n77	100	13.20	0	Ant 3b	DFT-S-OFDM	QPSK	270	0	0 mm	back	1:1	0.755	13.45	
3500.01	633334	Mid	NR Band n77	100	13.21	0	Ant 3b	CP-OFDM	QPSK	1	1	0 mm	back	1:1	0.710	13.73	
3500.01	633334	Mid	NR Band n77	100	13.40	0	Ant 3b	DFT-S-OFDM	QPSK	1	137	0 mm	top	1:1	0.608	14.59	
3500.01	633334	Mid	NR Band n77	100	13.35	0	Ant 3b	DFT-S-OFDM	QPSK	135	69	0 mm	top	1:1	0.635	14.35	
3500.01	633334	Mid	NR Band n77	100	13.20	0	Ant 3b	DFT-S-OFDM	QPSK	270	0	0 mm	top	1:1	0.631	14.23	
3500.01	633334	Mid	NR Band n77	100	13.40	0	Ant 3b	DFT-S-OFDM	QPSK	1	137	0 mm	bottom	1:1	0.001	42.43	
3500.01	633334	Mid	NR Band n77	100	13.35	0	Ant 3b	DFT-S-OFDM	QPSK	135	69	0 mm	bottom	1:1	0.002	39.37	
3500.01	633334	Mid	NR Band n77	100	13.40	0	Ant 3b	DFT-S-OFDM	QPSK	1	137	0 mm	right	1:1	0.082	23.29	
3500.01	633334	Mid	NR Band n77	100	13.35	0	Ant 3b	DFT-S-OFDM	QPSK	135	69	0 mm	right	1:1	0.084	23.14	
3500.01	633334	Mid	NR Band n77	100	13.40	0	Ant 3b	DFT-S-OFDM	QPSK	1	137	0 mm	left	1:1	0.013	31.29	
3500.01	633334	Mid	NR Band n77	100	13.35	0	Ant 3b	DFT-S-OFDM	QPSK	135	69	0 mm	left	1:1	0.008	33.35	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT																	
Spatial Peak						Body											
Uncontrolled Exposure/General Population						1.6 W/kg (mW/g) averaged over 1 gram											

FCC ID: BCGA2589	 PCTEST Proud to be part of element	PART 0 SAR CHAR REPORT	Approved by: Quality Manager
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Table A-75
DSI = 1 P_{Limit} Calculations – Antenna 2b NR Band n77 DOD PC2

MEASUREMENT RESULTS																	
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Antenna Config	Waveform	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Minimum Plimit	Plot #
MHz	Ch.														(W/kg)	[dBm]	
3500.01	633334	Mid	NR Band n77	100	12.05	0	Ant 2b	DFT-S-OFDM	QPSK	1	137	0 mm	back	1:1	0.861	11.73	11.70
3500.01	633334	Mid	NR Band n77	100	11.83	0	Ant 2b	DFT-S-OFDM	QPSK	135	69	0 mm	back	1:1	0.824	11.70	
3500.01	633334	Mid	NR Band n77	100	11.82	0	Ant 2b	DFT-S-OFDM	QPSK	270	0	0 mm	back	1:1	0.798	11.83	
3500.01	633334	Mid	NR Band n77	100	11.77	0	Ant 2b	CP-OFDM	QPSK	1	1	0 mm	back	1:1	0.797	11.79	
3500.01	633334	Mid	NR Band n77	100	12.05	0	Ant 2b	DFT-S-OFDM	QPSK	1	137	0 mm	top	1:1	0.000	41.08	
3500.01	633334	Mid	NR Band n77	100	11.83	0	Ant 2b	DFT-S-OFDM	QPSK	135	69	0 mm	top	1:1	0.000	40.86	
3500.01	633334	Mid	NR Band n77	100	12.05	0	Ant 2b	DFT-S-OFDM	QPSK	1	137	0 mm	bottom	1:1	0.643	13.00	
3500.01	633334	Mid	NR Band n77	100	11.83	0	Ant 2b	DFT-S-OFDM	QPSK	135	69	0 mm	bottom	1:1	0.631	12.86	
3500.01	633334	Mid	NR Band n77	100	11.82	0	Ant 2b	DFT-S-OFDM	QPSK	270	0	0 mm	bottom	1:1	0.781	11.92	
3500.01	633334	Mid	NR Band n77	100	12.05	0	Ant 2b	DFT-S-OFDM	QPSK	1	137	0 mm	right	1:1	0.010	31.08	
3500.01	633334	Mid	NR Band n77	100	11.83	0	Ant 2b	DFT-S-OFDM	QPSK	135	69	0 mm	right	1:1	0.010	30.86	
3500.01	633334	Mid	NR Band n77	100	12.05	0	Ant 2b	DFT-S-OFDM	QPSK	1	137	0 mm	left	1:1	0.007	32.63	
3500.01	633334	Mid	NR Band n77	100	11.83	0	Ant 2b	DFT-S-OFDM	QPSK	135	69	0 mm	left	1:1	0.006	33.08	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						Body 1.6 W/kg (mW/g) averaged over 1 gram											

Table A-76
DSI = 1 P_{Limit} Calculations – Antenna 1b NR Band n77 DOD PC2

MEASUREMENT RESULTS																	
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Antenna Config	Waveform	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Minimum Plimit	Plot #
MHz	Ch.	(W/kg)													[dBm]		
3500.01	633334	Low	NR Band n77	100	11.95	0	Ant 1b	DFT-S-OFDM	QPSK	1	271	0 mm	back	1:1	0.833	11.77	11.76
3500.01	633334	Low	NR Band n77	100	11.92	0	Ant 1b	DFT-S-OFDM	QPSK	135	69	0 mm	back	1:1	0.825	11.79	
3500.01	633334	Low	NR Band n77	100	11.91	0	Ant 1b	DFT-S-OFDM	QPSK	270	0	0 mm	back	1:1	0.783	12.00	
3500.01	633334	Low	NR Band n77	100	11.95	0	Ant 1b	DFT-S-OFDM	QPSK	1	271	0 mm	top	1:1	0.000	40.98	
3500.01	633334	Low	NR Band n77	100	11.92	0	Ant 1b	DFT-S-OFDM	QPSK	135	69	0 mm	top	1:1	0.000	40.95	
3500.01	633334	Low	NR Band n77	100	11.95	0	Ant 1b	DFT-S-OFDM	QPSK	1	271	0 mm	bottom	1:1	0.797	11.97	
3500.01	633334	Low	NR Band n77	100	11.92	0	Ant 1b	DFT-S-OFDM	QPSK	135	69	0 mm	bottom	1:1	0.647	12.84	
3500.01	633334	Low	NR Band n77	100	11.91	0	Ant 1b	DFT-S-OFDM	QPSK	270	0	0 mm	bottom	1:1	0.829	11.76	
3500.01	633334	Low	NR Band n77	100	11.81	0	Ant 1b	CP-OFDM	QPSK	1	1	0 mm	bottom	1:1	0.744	12.13	
3500.01	633334	Low	NR Band n77	100	11.95	0	Ant 1b	DFT-S-OFDM	QPSK	1	271	0 mm	right	1:1	0.007	32.53	
3500.01	633334	Low	NR Band n77	100	11.92	0	Ant 1b	DFT-S-OFDM	QPSK	135	69	0 mm	right	1:1	0.008	31.92	
3500.01	633334	Low	NR Band n77	100	11.95	0	Ant 1b	DFT-S-OFDM	QPSK	1	271	0 mm	left	1:1	0.014	29.52	
3500.01	633334	Low	NR Band n77	100	11.92	0	Ant 1b	DFT-S-OFDM	QPSK	135	69	0 mm	left	1:1	0.011	30.54	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						Body 1.6 W/kg (mW/g) averaged over 1 gram											

FCC ID: BCGA2589	 PCTEST Proud to be part of element	PART 0 SAR CHAR REPORT	Approved by: Quality Manager
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Table A-77
DSI = 1 P_{Limit} Calculations – Antenna 4 NR Band n77 C PC2

MEASUREMENT RESULTS																	
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Antenna Config	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	10.67	0.0	Ant 4	DFT-S-OFDM	QPSK	1	271	0 mm	back	1:1	0.495	12.75	10.67
3930.00	662000	High	NR Band n77	100	10.95	0.0	Ant 4	DFT-S-OFDM	QPSK	1	271	0 mm	back	1:1	0.853	10.67	
3750.00	650000	Low	NR Band n77	100	10.63	0.0	Ant 4	DFT-S-OFDM	QPSK	135	0	0 mm	back	1:1	0.490	12.76	
3930.00	662000	High	NR Band n77	100	10.99	0.0	Ant 4	DFT-S-OFDM	QPSK	135	138	0 mm	back	1:1	0.821	10.88	
3930.00	662000	High	NR Band n77	100	10.77	0.0	Ant 4	DFT-S-OFDM	QPSK	270	0	0 mm	back	1:1	0.770	10.94	
3930.00	662000	High	NR Band n77	100	10.74	0.0	Ant 4	CP-OFDM	QPSK	1	1	0 mm	back	1:1	0.632	11.76	
3930.00	662000	High	NR Band n77	100	10.95	0.0	Ant 4	DFT-S-OFDM	QPSK	1	271	0 mm	top	1:1	0.298	15.24	
3930.00	662000	High	NR Band n77	100	10.99	0.0	Ant 4	DFT-S-OFDM	QPSK	135	138	0 mm	top	1:1	0.283	15.50	
3930.00	662000	High	NR Band n77	100	10.95	0.0	Ant 4	DFT-S-OFDM	QPSK	1	271	0 mm	bottom	1:1	0.005	32.99	
3930.00	662000	High	NR Band n77	100	10.99	0.0	Ant 4	DFT-S-OFDM	QPSK	135	138	0 mm	bottom	1:1	0.004	34.00	
3930.00	662000	High	NR Band n77	100	10.95	0.0	Ant 4	DFT-S-OFDM	QPSK	1	271	0 mm	right	1:1	0.000	39.98	
3930.00	662000	High	NR Band n77	100	10.99	0.0	Ant 4	DFT-S-OFDM	QPSK	135	138	0 mm	right	1:1	0.000	40.02	
3750.00	650000	Low	NR Band n77	100	10.67	0.0	Ant 4	DFT-S-OFDM	QPSK	1	271	0 mm	left	1:1	0.259	15.57	
3930.00	662000	High	NR Band n77	100	10.95	0.0	Ant 4	DFT-S-OFDM	QPSK	1	271	0 mm	left	1:1	0.705	11.50	
3750.00	650000	Low	NR Band n77	100	10.63	0.0	Ant 4	DFT-S-OFDM	QPSK	135	0	0 mm	left	1:1	0.267	15.40	
3930.00	662000	High	NR Band n77	100	10.99	0.0	Ant 4	DFT-S-OFDM	QPSK	135	138	0 mm	left	1:1	0.657	11.85	
3930.00	662000	High	NR Band n77	100	10.77	0.0	Ant 4	DFT-S-OFDM	QPSK	270	0	0 mm	left	1:1	0.554	12.37	
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-78
DSI = 1 P_{Limit} Calculations – Antenna 3b NR Band n77 C PC2

MEASUREMENT RESULTS																	
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Antenna Config	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	13.68	0.0	Ant 3b	DFT-S-OFDM	QPSK	1	137	0 mm	back	1:1	0.586	15.03	14.50
3930.00	662000	High	NR Band n77	100	13.44	0.0	Ant 3b	DFT-S-OFDM	QPSK	1	271	0 mm	back	1:1	0.575	14.87	
3750.00	650000	Low	NR Band n77	100	13.64	0.0	Ant 3b	DFT-S-OFDM	QPSK	135	69	0 mm	back	1:1	0.579	15.04	
3930.00	662000	High	NR Band n77	100	13.40	0.0	Ant 3b	DFT-S-OFDM	QPSK	135	138	0 mm	back	1:1	0.576	14.83	
3750.00	650000	Low	NR Band n77	100	13.56	0.0	Ant 3b	DFT-S-OFDM	QPSK	270	0	0 mm	back	1:1	0.585	14.92	
3750.00	650000	Low	NR Band n77	100	13.68	0.0	Ant 3b	DFT-S-OFDM	QPSK	1	137	0 mm	top	1:1	0.587	15.02	
3930.00	662000	High	NR Band n77	100	13.44	0.0	Ant 3b	DFT-S-OFDM	QPSK	1	271	0 mm	top	1:1	0.617	14.57	
3750.00	650000	Low	NR Band n77	100	13.64	0.0	Ant 3b	DFT-S-OFDM	QPSK	135	69	0 mm	top	1:1	0.587	14.98	
3930.00	662000	High	NR Band n77	100	13.40	0.0	Ant 3b	DFT-S-OFDM	QPSK	135	138	0 mm	top	1:1	0.621	14.50	
3750.00	650000	Low	NR Band n77	100	13.56	0.0	Ant 3b	DFT-S-OFDM	QPSK	270	0	0 mm	top	1:1	0.559	15.12	
3750.00	650000	Low	NR Band n77	100	13.40	0.0	Ant 3b	CP-OFDM	QPSK	1	1	0 mm	top	1:1	0.548	15.04	
3750.00	650000	Low	NR Band n77	100	13.68	0.0	Ant 3b	DFT-S-OFDM	QPSK	1	137	0 mm	bottom	1:1	0.000	42.71	
3750.00	650000	Low	NR Band n77	100	13.64	0.0	Ant 3b	DFT-S-OFDM	QPSK	135	69	0 mm	bottom	1:1	0.000	42.67	
3750.00	650000	Low	NR Band n77	100	13.68	0.0	Ant 3b	DFT-S-OFDM	QPSK	1	137	0 mm	right	1:1	0.090	23.17	
3750.00	650000	Low	NR Band n77	100	13.64	0.0	Ant 3b	DFT-S-OFDM	QPSK	135	69	0 mm	right	1:1	0.084	23.43	
3750.00	650000	Low	NR Band n77	100	13.68	0.0	Ant 3b	DFT-S-OFDM	QPSK	1	137	0 mm	left	1:1	0.017	30.41	
3750.00	650000	Low	NR Band n77	100	13.64	0.0	Ant 3b	DFT-S-OFDM	QPSK	135	69	0 mm	left	1:1	0.019	29.88	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						Body 1.6 W/kg (mW/g) averaged over 1 gram											

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Table A-79
DSI = 1 P_{Limit} Calculations – Antenna 2b NR Band n77 C PC2

MEASUREMENT RESULTS																	
FREQUENCY		Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Antenna config	Waveform	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Plimit	Minimum Plimit
MHz	Ch.													(W/kg)		[dBm]	[dBm]
3750.00	650000	Low	NR Band n77	100	11.60	0	Ant 2b	DFT-S-OFDM	QPSK	1	271	0 mm	back	1:1	0.773	1.230	11.75
3930.00	662000	High	NR Band n77	100	11.75	0	Ant 2b	DFT-S-OFDM	QPSK	1	137	0 mm	back	1:1	0.799	1.189	11.76
3750.00	650000	Low	NR Band n77	100	11.47	0	Ant 2b	DFT-S-OFDM	QPSK	135	0	0 mm	back	1:1	0.725	1.268	11.90
3930.00	662000	High	NR Band n77	100	11.55	0	Ant 2b	DFT-S-OFDM	QPSK	135	138	0 mm	back	1:1	0.766	1.245	11.74
3930.00	662000	High	NR Band n77	100	11.67	0	Ant 2b	DFT-S-OFDM	QPSK	270	0	0 mm	back	1:1	0.786	1.211	11.75
3930.00	662000	High	NR Band n77	100	11.75	0	Ant 2b	DFT-S-OFDM	QPSK	1	137	0 mm	top	1:1	0.000	1.189	40.78
3930.00	662000	High	NR Band n77	100	11.55	0	Ant 2b	DFT-S-OFDM	QPSK	135	138	0 mm	top	1:1	0.000	1.245	40.58
3750.00	650000	Low	NR Band n77	100	11.60	0	Ant 2b	DFT-S-OFDM	QPSK	1	271	0 mm	bottom	1:1	0.735	1.230	11.97
3930.00	662000	High	NR Band n77	100	11.75	0	Ant 2b	DFT-S-OFDM	QPSK	1	137	0 mm	bottom	1:1	0.823	1.189	11.63
3750.00	650000	Low	NR Band n77	100	11.47	0	Ant 2b	DFT-S-OFDM	QPSK	135	0	0 mm	bottom	1:1	0.718	1.268	11.94
3930.00	662000	High	NR Band n77	100	11.55	0	Ant 2b	DFT-S-OFDM	QPSK	135	138	0 mm	bottom	1:1	0.775	1.245	11.69
3930.00	662000	High	NR Band n77	100	11.67	0	Ant 2b	DFT-S-OFDM	QPSK	270	0	0 mm	bottom	1:1	0.785	1.211	11.75
3750.00	650000	Low	NR Band n77	100	11.37	0	Ant 2b	CP-OFDM	QPSK	1	1	0 mm	bottom	1:1	0.701	1.297	11.94
3930.00	662000	High	NR Band n77	100	11.75	0	Ant 2b	DFT-S-OFDM	QPSK	1	137	0 mm	right	1:1	0.017	1.189	28.48
3930.00	662000	High	NR Band n77	100	11.55	0	Ant 2b	DFT-S-OFDM	QPSK	135	138	0 mm	right	1:1	0.018	1.245	28.03
3930.00	662000	High	NR Band n77	100	11.75	0	Ant 2b	DFT-S-OFDM	QPSK	1	137	0 mm	left	1:1	0.002	1.189	37.77
3930.00	662000	High	NR Band n77	100	11.55	0	Ant 2b	DFT-S-OFDM	QPSK	135	138	0 mm	left	1:1	0.004	1.245	34.56
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-80
DSI = 1 P_{Limit} Calculations – Antenna 1b NR Band n77 C PC2

MEASUREMENT RESULTS																	
FREQUENCY		Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Antenna config	Waveform	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Plimit	Minimum Plimit
MHz	Ch.													(W/kg)		[dBm]	[dBm]
3750.00	650000	Low	NR Band n77	100	11.81	0	Ant 1b	DFT-S-OFDM	QPSK	1	271	0 mm	back	1:1	0.393	1.227	14.90
3930.00	662000	High	NR Band n77	100	11.52	0	Ant 1b	DFT-S-OFDM	QPSK	1	1	0 mm	back	1:1	0.567	1.312	13.02
3750.00	650000	Low	NR Band n77	100	11.63	0	Ant 1b	DFT-S-OFDM	QPSK	135	138	0 mm	back	1:1	0.393	1.279	14.72
3930.00	662000	High	NR Band n77	100	11.34	0	Ant 1b	DFT-S-OFDM	QPSK	135	69	0 mm	back	1:1	0.557	1.368	12.91
3750.00	650000	Low	NR Band n77	100	11.49	0	Ant 1b	DFT-S-OFDM	QPSK	270	0	0 mm	back	1:1	0.555	1.321	13.08
3750.00	650000	Low	NR Band n77	100	11.81	0	Ant 1b	DFT-S-OFDM	QPSK	1	271	0 mm	top	1:1	0.000	1.227	40.84
3750.00	650000	Low	NR Band n77	100	11.63	0	Ant 1b	DFT-S-OFDM	QPSK	135	138	0 mm	top	1:1	0.000	1.279	40.66
3750.00	650000	Low	NR Band n77	100	11.81	0	Ant 1b	DFT-S-OFDM	QPSK	1	271	0 mm	bottom	1:1	0.469	1.227	14.13
3930.00	662000	High	NR Band n77	100	11.52	0	Ant 1b	DFT-S-OFDM	QPSK	1	1	0 mm	bottom	1:1	0.622	1.312	12.61
3750.00	650000	Low	NR Band n77	100	11.63	0	Ant 1b	DFT-S-OFDM	QPSK	135	138	0 mm	bottom	1:1	0.467	1.279	13.97
3930.00	662000	High	NR Band n77	100	11.34	0	Ant 1b	DFT-S-OFDM	QPSK	135	69	0 mm	bottom	1:1	0.629	1.368	12.38
3750.00	650000	Low	NR Band n77	100	11.49	0	Ant 1b	DFT-S-OFDM	QPSK	270	0	0 mm	bottom	1:1	0.588	1.321	12.83
3930.00	662000	High	NR Band n77	100	11.55	0	Ant 1b	CP-OFDM	QPSK	1	1	0 mm	bottom	1:1	0.602	1.303	12.78
3750.00	650000	Low	NR Band n77	100	11.81	0	Ant 1b	DFT-S-OFDM	QPSK	1	271	0 mm	right	1:1	0.002	1.227	37.83
3750.00	650000	Low	NR Band n77	100	11.63	0	Ant 1b	DFT-S-OFDM	QPSK	135	138	0 mm	right	1:1	0.005	1.279	33.67
3750.00	650000	Low	NR Band n77	100	11.81	0	Ant 1b	DFT-S-OFDM	QPSK	1	271	0 mm	left	1:1	0.003	1.227	36.07
3750.00	650000	Low	NR Band n77	100	11.63	0	Ant 1b	DFT-S-OFDM	QPSK	135	138	0 mm	left	1:1	0.002	1.279	37.65
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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