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PART 0 SAR CHAR REPORT

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Date of Testing:

04/22/20 – 06/07/20

Test Site/Location:

PCTEST Lab, Columbia, MD, USA

Document Serial No.:

1M2004170065-24.A3L

FCC ID:

A3LSMN986U

APPLICANT:

SAMSUNG ELECTRONICS CO., LTD

Report Type:

Part 0 SAR Characterization

DUT Type:

Portable Handset

Model(s):

SM-N986U

Additional Model(s):

SM-N986U1

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

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


Randy Ortanez
President



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1 DEVICE UNDER TEST

1.1 Device Overview

Band & Mode	Operating Modes	Tx Frequency
CDMA/EVDO BC10 (\$90S)	Voice/Data	817.90 - 823.10 MHz
Cell. CDMA/EVDO	Voice/Data	824.70 - 848.31 MHz
PCS CDMA/EVDO	Voice/Data	1851.25 - 1908.75 MHz
GSM/GPRS/EDGE 850	Voice/Data	824.20 - 848.80 MHz
GSM/GPRS/EDGE 1900	Voice/Data	1850.20 - 1909.80 MHz
UMTS 850	Voice/Data	826.40 - 846.60 MHz
UMTS 1750	Voice/Data	1712.4 - 1752.6 MHz
UMTS 1900	Voice/Data	1852.4 - 1907.6 MHz
LTE Band 71	Voice/Data	665.5 - 695.5 MHz
LTE Band 12	Voice/Data	699.7 - 715.3 MHz
LTE Band 13	Voice/Data	779.5 - 784.5 MHz
LTE Band 14	Voice/Data	790.5 - 795.5 MHz
LTE Band 26 (Cell)	Voice/Data	814.7 - 848.3 MHz
LTE Band 5 (Cell)	Voice/Data	824.7 - 848.3 MHz
LTE Band 66 (AWS)	Voice/Data	1710.7 - 1779.3 MHz
LTE Band 4 (AWS)	Voice/Data	1710.7 - 1754.3 MHz
LTE Band 25 (PCS)	Voice/Data	1850.7 - 1914.3 MHz
LTE Band 2 (PCS)	Voice/Data	1850.7 - 1909.3 MHz
LTE Band 30	Voice/Data	2307.5 - 2312.5 MHz
LTE Band 7	Voice/Data	2502.5 - 2567.5 MHz
LTE Band 48	Voice/Data	3552.5 - 3697.5 MHz
LTE Band 41	Voice/Data	2498.5 - 2687.5 MHz
LTE Band 38	Voice/Data	2572.5 - 2617.5 MHz
NR Band n71	Data	665.5 - 695.5 MHz
NR Band n12	Data	701.5 - 713.5 MHz
NR Band n5	Data	826.5 - 846.5 MHz
NR Band n66	Data	1712.5 - 1777.5 MHz
NR Band n2	Data	1852.5 - 1907.5 MHz
NR Band n41	Data	2506.02 - 2679.99 MHz
2.4 GHz WLAN	Voice/Data	2412 - 2462 MHz
U-NII-1	Voice/Data	5180 - 5240 MHz
U-NII-2A	Voice/Data	5260 - 5320 MHz
U-NII-2C	Voice/Data	5500 - 5720 MHz
U-NII-3	Voice/Data	5745 - 5825 MHz
Bluetooth	Data	2402 - 2480 MHz
NFC	Data	13.56 MHz
MST	Data	555 Hz - 8.33 kHz
NR Band 260	Data	37000 - 40000 MHz
NR Band 261	Data	27500 - 28350 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/NFC/MST 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 and Power Density

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

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

1.3 Nomenclature for Part 0 Report

Technology	Term	Description
2G/3G/4G/5G Sub-6 NR	P_{limit}	Power level that corresponds to the exposure design target (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 Part 0 PD Characterization Report	Revision B
FCC SAR Evaluation Report (Part 1)	1M2004170065-01.A3L
FCC PD Evaluation Report (Part 1)	1M2004170065-22.A3L
RF Exposure Part 2 Test Report	1M2004170065-25.A3L
RF Exposure Compliance Summary	1M2004170065-26.A3L

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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. Table 2-1) and IEEE 1528-2013.
3. The point SAR measurement was taken at the maximum SAR region determined from Step 1 to enable the monitoring of SAR fluctuations/drifts during the 1g/10g cube evaluation. SAR at this fixed point was measured and used as a reference value.

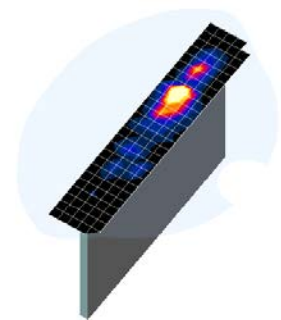


Figure 2-1
Sample SAR Area Scan

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4. Based on the area scan data, the peak of the region with maximum SAR was determined by spline interpolation. Around this point, a volume was assessed according to the measurement resolution and volume size requirements of FCC KDB Publication 865664 D01v01r04 (See
5. Table 2-1) and IEEE 1528-2013. On the basis of this data set, the spatial peak SAR value was evaluated with the following procedure (see references or the DASY manual online for more details):
 - a. SAR values at the inner surface of the phantom are extrapolated from the measured values along the line away from the surface with spacing no greater than that in
 - b. Table 2-1. The extrapolation was based on a least-squares algorithm. A polynomial of the fourth order was calculated through the points in the z-axis (normal to the phantom shell).
 - c. After the maximum interpolated values were calculated between the points in the cube, the SAR was averaged over the spatial volume (1g or 10g) using a 3D-Spline interpolation algorithm. The 3D-spline is composed of three one-dimensional splines with the “Not a knot” condition (in x, y, and z directions). The volume was then integrated with the trapezoidal algorithm. One thousand points (10 x 10 x 10) were obtained through interpolation, in order to calculate the averaged SAR.
 - d. All neighboring volumes were evaluated until no neighboring volume with a higher average value was found.
6. 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 smartphone, 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.

When 1g SAR and 10g SAR exposure comparison is needed, the worst-case was determined from SAR normalized to 1g or 10g SAR limit.

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
Head (DSI = 2)	- Device positioned next to head - Receiver Active	Head SAR per KDB Publication 648474 D04
Hotspot mode (DSI = 3)	- Device transmits in hotspot mode near body - Hotspot Mode Active	Hotspot SAR per KDB Publication 941225 D06
Phablet Grip (DSI=1 or 4)	- Device is held with hand and grip sensor is triggered - Grip sensor triggered or earjack is active	Phablet SAR per KDB Publication 648474 D04 & KDB Publication 616217 D04
Phablet (DSI = 0)	- Device is held with hand and grip sensor is not triggered - Distance grip sensor not triggered	Phablet SAR per KDB Publication 648474 D04 & KDB Publication 616217 D04
Body-worn (DSI = 0)	Device being used with a body-worn accessory	Body-worn SAR per KDB Publication 648474 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)		10g SAR (W/kg)	
<i>Total Uncertainty</i>	1.0 dB	<i>Total Uncertainty</i>	1.0 dB
<i>SAR_regulatory_limit</i>	1.6 W/kg	<i>SAR_regulatory_limit</i>	4.0 W/kg
<i>SAR_design_target</i>	1.0 W/kg	<i>SAR_design_target</i>	2.5 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
0	The worst-case SAR exposure is determined as maximum SAR normalized to the limit among: 1. Body Worn SAR 2. Extremity SAR measured at 8, 6 and 12 mm spacing for back, front, bottom respectively 3. Extremity SAR measured at 0 mm for left and right surfaces
1 or 4	P_{limit} is calculated based on 10g Extremity SAR at 0 mm for back, front, and bottom surfaces
2	P_{limit} is calculated based on 1g Head SAR
3	P_{limit} is calculated based on 1g Hotspot SAR at 10 mm

Note:

For DSI = 0, P_{limit} is calculated by:

$$P_{limit} = \min\{ P_{limit} \text{ corresponding to 1g Body Worn SAR evaluation at 15 mm spacing,} \\ P_{limit} \text{ corresponding to 10g Extremity SAR evaluation at 6~12 mm spacing,} \\ P_{limit} \text{ corresponding to 10g Extremity SAR evaluation at 0 mm for left and right surfaces} \}$$

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Table 3-4
SAR Characterizations

Exposure Scenario:	Body-Worn	Phablet	Phablet	Head	Hotspot	Earjack	Maximum Tune-up Output Power*
Averaging Volume:	1g	10g	10g	1g	1g	10g	
Spacing:	15 mm	8, 6, 12	0 mm	0 mm	10 mm	0 mm	
DSI:	0	0	1	2	3	4	
Technology/Band	Plimit corresponding to 1mW/g (SAR_design_target)						Pmax
CDMA/EVDO BC10	29.3		27.3	31.8	25.4	27.3	25.0
CDMA/EVDO BC0	29.7		27.3	33.0	26.3	27.3	24.8
CDMA/EVDO BC1	25.4		21.0	33.1	18.0	21.0	23.0
GSM/GPRS/EDGE 850 MHz	29.9		29.1	37.5	26.7	29.1	25.3
GSM/GPRS/EDGE 1900 MHz	22.7		20.1	33.8	18.6	20.1	22.3
UMTS B5	30.1		27.0	33.7	27.0	27.0	24.8
UMTS B4	25.5		20.0	32.8	19.0	20.0	23.5
UMTS B2	25.1		20.0	33.6	18.0	20.0	23.0
LTE FDD B71	31.9		26.7	34.9	26.7	26.7	24.8
LTE FDD B12	31.8		27.4	34.5	27.4	27.4	24.8
LTE FDD B13	30.0		28.0	32.2	27.1	28.0	24.8
LTE FDD B14	29.5		27.6	32.7	27.5	27.6	24.8
LTE FDD B26	30.6		26.5	33.6	26.5	26.5	24.8
LTE FDD B5	30.1		27.1	33.1	27.1	27.1	24.8
LTE FDD B66/4	24.7		19.5	32.9	19.0	19.5	23.5
LTE FDD B25/2	25.3		21.0	33.0	18.5	21.0	23.5
LTE FDD B30	26.4		23.1	36.6	19.0	23.1	23.0
LTE FDD B7	26.9		19.0	32.6	19.0	19.0	23.0
LTE TDD B48	22.0		22.0	16.0	22.0	22.0	22.0
LTE TDD B41/38 PC3	29.2		20.0	34.7	19.0	20.0	22.0
LTE TDD B41 PC2	29.2		20.0	34.7	19.0	20.0	22.9
NR FDD n71	31.7		28.5	34.4	28.5	28.5	24.5
NR FDD n12	32.0		26.5	34.4	26.5	26.5	24.5
NR FDD n5	30.6		28.1	32.9	27.2	28.1	24.5
NR FDD n66	24.3		19.5	32.9	19.0	19.5	23.5
NR FDD n2/25	25.7		19.5	32.8	18.0	19.5	23.5
NR TDD n41	27.3		27.3	16.5	21.1	27.3	18.5

Notes:

- For all modes/bands, when Hotspot Mode (DSI=3) and Extremity sensor (DSI=1) are triggered at the same time, DSI=3 takes priority, thus the P_{limit} for DSI=3 is set to be less or equal to P_{limit} for DSI=1.
- When $P_{max} < P_{limit}$, the DUT will operate at a power level up to P_{max} .
- P_{limit} for DSI=1 and DSI =4 are the same.
- For LTE Band 48 and n41, when RCV is active, DSI=2 takes priority over all levels.

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EQUIPMENT LIST

For SAR measurements

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
Agilent	8594A	(9kHz-2.0GHz) Spectrum Analyzer	N/A	N/A	N/A	3051400187
Agilent	8753E	S-Parameter Network Analyzer	12/31/2019	Annual	12/31/2020	US39170122
Agilent	8753E	S-Parameter Network Analyzer	8/26/2019	Annual	8/26/2020	M04000670
Agilent	8728B	S-Parameter Vector Network Analyzer	9/29/2019	Annual	9/29/2020	M040003841
Agilent	E4439B	ESG-D Series Signal Generator	7/14/2019	Annual	7/14/2020	US4003596
Agilent	E4438C	ESG Vector Signal Generator	3/9/2019	Biennial	3/9/2021	M040002385
Agilent	E4438C	ESG Vector Signal Generator	3/11/2019	Biennial	3/11/2021	M040005070
Agilent	E4438C	ESG Vector Signal Generator	12/13/2019	Annual	12/13/2020	M040002659
Agilent	E5515C	8960 Series 90 Wireless Communications Test Set	2/19/2020	Annual	2/19/2021	GB40130325
Agilent	E5515C	Wireless Communications Test Set	1/14/2020	Triennial	1/14/2023	GB40304447
Agilent	E5515C	Wireless Communications Test Set	6/26/2019	Annual	6/26/2020	M040067125
Agilent	E5515C	Wireless Communications Test Set	2/26/2020	Annual	2/26/2021	GB44000860
Agilent	E5515C	Wireless Communications Test Set	9/25/2019	Annual	9/25/2020	GB40304278
Agilent	N5182A	MXG Vector Signal Generator	7/19/2019	Annual	7/19/2020	M040420000
Agilent	N5182A	MXG Vector Signal Generator	2/19/2020	Annual	2/19/2021	M040420001
Agilent	N9030A	PKA Signal Analyzer (44GHz)	6/12/2019	Annual	6/12/2020	M040250066
Amplifier Research	135166	Amplifier	CBT	N/A	CBT	433972
Amplifier Research	135166	Amplifier	CBT	N/A	CBT	433974
Amplifier Research	135166	Amplifier	CBT	N/A	CBT	433976
Anritsu	MA24106A	USB Power Sensor	3/27/2020	Annual	3/27/2021	134834
Anritsu	MA24106A	USB Power Sensor	10/10/2019	Annual	10/10/2020	1344545
Anritsu	MA24106A	USB Power Sensor	10/10/2019	Annual	10/10/2020	1344549
Anritsu	MA2411B	Pulse Power Sensor	6/11/2019	Annual	6/11/2020	130784
Anritsu	MA2411B	Pulse Power Sensor	12/4/2019	Annual	12/4/2020	1130066
Anritsu	ML2495A	Power Meter	12/17/2019	Annual	12/17/2020	961001
Anritsu	ML2495A	Power Meter	1/31/2020	Annual	1/31/2021	1310101
Anritsu	MR1810B	IO Adapter	CBT	N/A	CBT	626113881
Anritsu	MR1821C	Radio Communication Analyzer	2/22/2020	Annual	2/22/2021	6261895213
Anritsu	MR1821C	Radio Communication Analyzer	11/22/2019	Annual	11/22/2020	6262044715
Anritsu	MR1826A	Wireless Connectivity Test Set	8/9/2019	Annual	8/9/2020	6261762395
COMTECH	A885729-S	Solid State Amplifier	CBT	N/A	CBT	M040400000
COMTECH	A885729-S/5798	Solid State Amplifier	CBT	N/A	CBT	MBW1A00-1002
Control Company	4040	Therm./Clock/Humidity Monitor	6/29/2019	Biennial	6/29/2021	15225425
Control Company	4040	Therm./Clock/Humidity Monitor	6/29/2019	Biennial	6/29/2021	15225440
Control Company	4040	Therm./Clock/Humidity Monitor	6/29/2019	Biennial	6/29/2021	15225442
Control Company	4352	Long Stem Thermometer	1/24/2020	Biennial	1/24/2022	200043588
Control Company	4352	Long Stem Thermometer	1/24/2020	Biennial	1/24/2022	200043605
Control Company	4352	Long Stem Thermometer	1/24/2020	Biennial	1/24/2022	200043647
Control Company	4352	Ultra Long Stem Thermometer	11/29/2018	Biennial	11/29/2020	181766816
Control Company	4352	Ultra Long Stem Thermometer	11/29/2018	Biennial	11/29/2020	181766817
Keysight	7720	Dual Directional Coupler	CBT	N/A	CBT	M040180215
Keysight Technologies	85013E	Standard Mechanical Calibration Kit (DC to 9GHz, 3.5mm)	7/2/2019	Annual	7/2/2020	M040140181
MCCL	BW-N20W5+	6dB Attenuator	CBT	N/A	CBT	1139
Mini-Circuits	SAP-2400+	Low Pass Filter	CBT	N/A	CBT	889740060
Mini-Circuits	VLF-6000+	Low Pass Filter	CBT	N/A	CBT	N/A
Mini-Circuits	VLF-6000+	Low Pass Filter	CBT	N/A	CBT	N/A
Mini-Circuits	BW-N20W5	Power Attenuator	CBT	N/A	CBT	1236
Mini-Circuits	BW-N20W5+	DC to 35 GHz Precision Fixed 20 dB Attenuator	CBT	N/A	CBT	N/A
Mini-Circuits	NLP-1200+	Low Pass Filter DC to 1200 MHz	CBT	N/A	CBT	N/A
Mini-Circuits	NLP-2950+	Low Pass Filter DC to 2700 MHz	CBT	N/A	CBT	N/A
Narda	BW-53W2	Attenuator (3dB)	CBT	N/A	CBT	120
NI	4474	Data Acquisition Card	CBT	N/A	CBT	N/A
Passmark	P1220B-10	Bi-Directional Coupler	CBT	N/A	CBT	N/A
Rohde & Schwarz	CMW500	Radio Communication Tester	3/27/2020	Annual	3/27/2021	128613
Rohde & Schwarz	CMW500	Radio Communication Tester	8/14/2019	Annual	8/14/2020	140144
Rohde & Schwarz	CMW500	Radio Communication Tester	10/4/2019	Annual	10/4/2020	166462
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	2/4/2020	Annual	2/4/2021	161215
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	11/14/2019	Annual	11/14/2020	164462
Rohde & Schwarz	ZNL66	Vector Network Analyzer	10/11/2019	Annual	10/11/2020	101307
Rohde & Schwarz	CMU200	Base Station Simulator	6/3/2019	Annual	6/3/2020	109852
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	7/12/2019	Annual	7/12/2020	145645
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	7/24/2019	Annual	7/24/2020	151849
SPEAG	D1750V2	1750 MHz SAR Dipole	10/22/2019	Biennial	10/22/2020	1150
SPEAG	D1760V2	1765 MHz SAR Dipole	5/23/2018	Triennial	5/23/2021	3008
SPEAG	D1900V2	1900 MHz SAR Dipole	10/23/2018	Biennial	10/23/2020	50380
SPEAG	D1900V2	1900 MHz SAR Dipole	2/21/2019	Biennial	2/21/2021	50148
SPEAG	D200V2	2000 MHz SAR Dipole	8/13/2018	Biennial	8/13/2020	7073
SPEAG	D2450V2	2450 MHz SAR Dipole	8/14/2019	Annual	8/14/2020	719
SPEAG	D2450V2	2450 MHz SAR Dipole	9/11/2017	Triennial	9/11/2020	797
SPEAG	D2600V2	2600 MHz SAR Dipole	6/14/2019	Annual	6/14/2020	3064
SPEAG	D300V2	3000 MHz SAR Dipole	1/11/2018	Triennial	1/11/2021	3059
SPEAG	D3700V2	3700 MHz SAR Dipole	1/11/2018	Triennial	1/11/2021	3058
SPEAG	D5G4V2	5 GHz SAR Dipole	1/16/2018	Triennial	1/16/2021	1057
SPEAG	D5G4V2	5 GHz SAR Dipole	9/17/2019	Annual	9/17/2020	1191
SPEAG	D750V3	750 MHz SAR Dipole	3/16/2020	Annual	3/16/2021	1003
SPEAG	D750V2	750 MHz SAR Dipole	10/19/2018	Biennial	10/19/2020	1151
SPEAG	D830V2	835 MHz SAR Dipole	3/13/2019	Biennial	3/13/2021	46947
SPEAG	D830V2	835 MHz SAR Dipole	10/19/2018	Biennial	10/19/2020	46133
SPEAG	D830V2	835 MHz SAR Dipole	1/13/2020	Annual	1/13/2021	46132
SPEAG	DA4	Day Data Acquisition Electronics	12/18/2019	Annual	12/18/2020	69
SPEAG	DA4	Day Data Acquisition Electronics	7/11/2019	Annual	7/11/2020	1323
SPEAG	DA4	Day Data Acquisition Electronics	9/17/2019	Annual	9/17/2020	1333
SPEAG	DA4	Day Data Acquisition Electronics	7/11/2019	Annual	7/11/2020	1322
SPEAG	DA4	Day Data Acquisition Electronics	6/20/2019	Annual	6/20/2020	1334
SPEAG	DA4	Day Data Acquisition Electronics	3/12/2020	Annual	3/12/2021	1368
SPEAG	DA4	Day Data Acquisition Electronics	4/15/2020	Annual	4/15/2021	1407
SPEAG	DA4	Day Data Acquisition Electronics	9/12/2019	Annual	9/12/2020	1449
SPEAG	DA4	Day Data Acquisition Electronics	1/13/2020	Annual	1/13/2021	1530
SPEAG	DA4	Day Data Acquisition Electronics	1/13/2020	Annual	1/13/2021	1538
SPEAG	DA4	Day Data Acquisition Electronics	12/5/2019	Annual	12/5/2020	1533
SPEAG	DAK-3.5	Dielectric Assessment Kit	10/22/2019	Annual	10/22/2020	1026
SPEAG	EX30V4	SAR Probe	1/21/2020	Annual	1/21/2021	3588
SPEAG	EX30V4	SAR Probe	9/19/2019	Biennial	9/19/2020	7551
SPEAG	EX30V4	SAR Probe	4/21/2020	Annual	4/21/2021	7757
SPEAG	EX30V4	SAR Probe	6/19/2019	Annual	6/19/2020	7409
SPEAG	EX30V4	SAR Probe	7/16/2019	Annual	7/16/2020	7410
SPEAG	EX30V4	SAR Probe	1/21/2020	Annual	1/21/2021	7408
SPEAG	EX30V4	SAR Probe	3/17/2020	Annual	3/17/2021	7527
SPEAG	EX30V4	SAR Probe	7/15/2019	Annual	7/15/2020	7547
SPEAG	EX30V4	SAR Probe	9/19/2019	Annual	9/19/2020	7552
SPEAG	EX30V4	SAR Probe	12/11/2019	Annual	12/11/2020	7570
SPEAG	EX30V4	SAR Probe	12/11/2019	Annual	12/11/2020	7571

Note:

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

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5 MEASUREMENT UNCERTAINTIES

For SAR Measurements

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

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

Table A-1
DSI = 2 P_{Limit} Calculations – 2G/3G Head SAR

MEASUREMENT RESULTS										
FREQUENCY		Mode/Band	Service	Conducted Power [dBm]	Side	Test Position	Duty Cycle	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.							(W/kg)	[dBm]	[dBm]
820.10	564	CDMABC10 (§90S)	RC3 / SO55	24.75	Right	Cheek	1:1	0.117	34.07	31.76
820.10	564	CDMABC10 (§90S)	RC3 / SO55	24.75	Right	Tilt	1:1	0.103	34.62	
820.10	564	CDMABC10 (§90S)	RC3 / SO55	24.75	Left	Cheek	1:1	0.159	32.74	
820.10	564	CDMABC10 (§90S)	RC3 / SO55	24.75	Left	Tilt	1:1	0.098	34.84	
820.10	564	CDMABC10 (§90S)	EVDO Rev. A	24.50	Right	Cheek	1:1	0.122	33.64	
820.10	564	CDMABC10 (§90S)	EVDO Rev. A	24.50	Right	Tilt	1:1	0.112	34.01	
820.10	564	CDMABC10 (§90S)	EVDO Rev. A	24.50	Left	Cheek	1:1	0.188	31.76	
820.10	564	CDMABC10 (§90S)	EVDO Rev. A	24.50	Left	Tilt	1:1	0.100	34.50	
836.52	384	CDMABC0 (§22H)	RC3 / SO55	24.93	Right	Cheek	1:1	0.112	34.44	33.02
836.52	384	CDMABC0 (§22H)	RC3 / SO55	24.93	Right	Tilt	1:1	0.087	35.53	
836.52	384	CDMABC0 (§22H)	RC3 / SO55	24.93	Left	Cheek	1:1	0.140	33.47	
836.52	384	CDMABC0 (§22H)	RC3 / SO55	24.93	Left	Tilt	1:1	0.091	35.34	
836.52	384	CDMABC0 (§22H)	EVDO Rev. A	24.78	Right	Cheek	1:1	0.108	34.45	
836.52	384	CDMABC0 (§22H)	EVDO Rev. A	24.78	Right	Tilt	1:1	0.089	35.29	
836.52	384	CDMABC0 (§22H)	EVDO Rev. A	24.78	Left	Cheek	1:1	0.150	33.02	
836.52	384	CDMABC0 (§22H)	EVDO Rev. A	24.78	Left	Tilt	1:1	0.092	35.14	
1880.00	600	PCS CDMA	RC3 / SO55	23.21	Right	Cheek	1:1	0.101	33.17	33.08
1880.00	600	PCS CDMA	RC3 / SO55	23.21	Right	Tilt	1:1	0.064	35.15	
1880.00	600	PCS CDMA	RC3 / SO55	23.21	Left	Cheek	1:1	0.086	33.87	
1880.00	600	PCS CDMA	RC3 / SO55	23.21	Left	Tilt	1:1	0.076	34.40	
1880.00	600	PCS CDMA	EVDO Rev. A	23.25	Right	Cheek	1:1	0.104	33.08	
1880.00	600	PCS CDMA	EVDO Rev. A	23.25	Right	Tilt	1:1	0.068	34.92	
1880.00	600	PCS CDMA	EVDO Rev. A	23.25	Left	Cheek	1:1	0.089	33.76	
1880.00	600	PCS CDMA	EVDO Rev. A	23.25	Left	Tilt	1:1	0.087	33.85	
836.60	190	GSM 850	GSM	32.86	Right	Cheek	1:8.3	0.030	38.89	37.53
836.60	190	GSM 850	GSM	32.86	Right	Tilt	1:8.3	0.022	40.23	
836.60	190	GSM 850	GSM	32.86	Left	Cheek	1:8.3	0.041	37.53	
836.60	190	GSM 850	GSM	32.86	Left	Tilt	1:8.3	0.023	40.04	
1880.00	661	GSM 1900	GSM	29.74	Right	Cheek	1:8.3	0.047	33.82	33.82
1880.00	661	GSM 1900	GSM	29.74	Right	Tilt	1:8.3	0.032	35.49	
1880.00	661	GSM 1900	GSM	29.74	Left	Cheek	1:8.3	0.036	34.98	
1880.00	661	GSM 1900	GSM	29.74	Left	Tilt	1:8.3	0.032	35.49	
836.60	4183	UMTS 850	RMC	25.20	Right	Cheek	1:1	0.097	35.33	33.68
836.60	4183	UMTS 850	RMC	25.20	Right	Tilt	1:1	0.068	36.87	
836.60	4183	UMTS 850	RMC	25.20	Left	Cheek	1:1	0.142	33.68	
836.60	4183	UMTS 850	RMC	25.20	Left	Tilt	1:1	0.080	36.17	
1732.40	1412	UMTS 1750	RMC	23.89	Right	Cheek	1:1	0.129	32.78	32.78
1732.40	1412	UMTS 1750	RMC	23.89	Right	Tilt	1:1	0.091	34.30	
1732.40	1412	UMTS 1750	RMC	23.89	Left	Cheek	1:1	0.097	34.02	
1732.40	1412	UMTS 1750	RMC	23.89	Left	Tilt	1:1	0.106	33.64	
1880.00	9400	UMTS 1900	RMC	23.34	Right	Cheek	1:1	0.094	33.61	33.61
1880.00	9400	UMTS 1900	RMC	23.34	Right	Tilt	1:1	0.055	35.94	
1880.00	9400	UMTS 1900	RMC	23.34	Left	Cheek	1:1	0.070	34.89	
1880.00	9400	UMTS 1900	RMC	23.34	Left	Tilt	1:1	0.070	34.89	

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

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06/01/2019

Table A-2
DSI = 2 P_{Limit} Calculations – 4G Head SAR

MEASUREMENT RESULTS															
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Side	Test Position	Modulation	RB Size	RB Offset	Duty Cycle	SAR (1g)	PLimit	Minimum PLimit
MHz	Ch.												(W/kg)	[dBm]	[dBm]
680.5	133297	Mid	LTE Band 71	20	25.17	0	Right	Cheek	QPSK	1	0	1:1	0.078	36.25	34.61
680.5	133297	Mid	LTE Band 71	20	24.20	1	Right	Cheek	QPSK	50	0	1:1	0.064	36.14	
680.5	133297	Mid	LTE Band 71	20	25.17	0	Right	Tilt	QPSK	1	0	1:1	0.039	39.26	
680.5	133297	Mid	LTE Band 71	20	24.20	1	Right	Tilt	QPSK	50	0	1:1	0.033	39.01	
680.5	133297	Mid	LTE Band 71	20	25.17	0	Left	Cheek	QPSK	1	0	1:1	0.106	34.92	
680.5	133297	Mid	LTE Band 71	20	24.20	1	Left	Cheek	QPSK	50	0	1:1	0.091	34.61	
680.5	133297	Mid	LTE Band 71	20	25.17	0	Left	Tilt	QPSK	1	0	1:1	0.047	38.45	
680.5	133297	Mid	LTE Band 71	20	24.20	1	Left	Tilt	QPSK	50	0	1:1	0.036	38.64	
707.5	23095	Mid	LTE Band 12	10	25.23	0	Right	Cheek	QPSK	1	0	1:1	0.087	35.83	34.53
707.5	23095	Mid	LTE Band 12	10	24.31	1	Right	Cheek	QPSK	25	12	1:1	0.082	35.17	
707.5	23095	Mid	LTE Band 12	10	25.23	0	Right	Tilt	QPSK	1	0	1:1	0.046	38.60	
707.5	23095	Mid	LTE Band 12	10	24.31	1	Right	Tilt	QPSK	25	12	1:1	0.044	37.88	
707.5	23095	Mid	LTE Band 12	10	25.23	0	Left	Cheek	QPSK	1	0	1:1	0.111	34.78	
707.5	23095	Mid	LTE Band 12	10	24.31	1	Left	Cheek	QPSK	25	12	1:1	0.095	34.53	
707.5	23095	Mid	LTE Band 12	10	25.23	0	Left	Tilt	QPSK	1	0	1:1	0.048	38.42	
707.5	23095	Mid	LTE Band 12	10	24.31	1	Left	Tilt	QPSK	25	12	1:1	0.042	38.08	
782.0	23230	Mid	LTE Band 13	10	25.21	0	Right	Cheek	QPSK	1	25	1:1	0.127	34.17	31.93
782.0	23230	Mid	LTE Band 13	10	24.28	1	Right	Cheek	QPSK	25	0	1:1	0.107	33.99	
782.0	23230	Mid	LTE Band 13	10	25.21	0	Right	Tilt	QPSK	1	25	1:1	0.095	35.43	
782.0	23230	Mid	LTE Band 13	10	24.28	1	Right	Tilt	QPSK	25	0	1:1	0.071	35.77	
782.0	23230	Mid	LTE Band 13	10	25.21	0	Left	Cheek	QPSK	1	25	1:1	0.213	31.93	
782.0	23230	Mid	LTE Band 13	10	24.28	1	Left	Cheek	QPSK	25	0	1:1	0.151	32.49	
782.0	23230	Mid	LTE Band 13	10	25.21	0	Left	Tilt	QPSK	1	25	1:1	0.098	35.30	
782.0	23230	Mid	LTE Band 13	10	24.28	1	Left	Tilt	QPSK	25	0	1:1	0.073	35.65	
793.0	23330	Mid	LTE Band 14	10	25.06	0	Right	Cheek	QPSK	1	0	1:1	0.128	33.99	32.73
793.0	23330	Mid	LTE Band 14	10	24.07	1	Right	Cheek	QPSK	25	25	1:1	0.091	34.48	
793.0	23330	Mid	LTE Band 14	10	25.06	0	Right	Tilt	QPSK	1	0	1:1	0.090	35.52	
793.0	23330	Mid	LTE Band 14	10	24.07	1	Right	Tilt	QPSK	25	25	1:1	0.061	36.22	
793.0	23330	Mid	LTE Band 14	10	25.06	0	Left	Cheek	QPSK	1	0	1:1	0.158	33.07	
793.0	23330	Mid	LTE Band 14	10	24.07	1	Left	Cheek	QPSK	25	25	1:1	0.136	32.73	
793.0	23330	Mid	LTE Band 14	10	25.06	0	Left	Tilt	QPSK	1	0	1:1	0.080	36.03	
793.0	23330	Mid	LTE Band 14	10	24.07	1	Left	Tilt	QPSK	25	25	1:1	0.061	36.22	
831.5	26865	Mid	LTE Band 26 (Cell)	15	25.25	0	Right	Cheek	QPSK	1	36	1:1	0.111	34.80	33.38
831.5	26865	Mid	LTE Band 26 (Cell)	15	24.24	1	Right	Cheek	QPSK	36	18	1:1	0.088	34.80	
831.5	26865	Mid	LTE Band 26 (Cell)	15	25.25	0	Right	Tilt	QPSK	1	36	1:1	0.078	36.33	
831.5	26865	Mid	LTE Band 26 (Cell)	15	24.24	1	Right	Tilt	QPSK	36	18	1:1	0.061	36.39	
831.5	26865	Mid	LTE Band 26 (Cell)	15	25.25	0	Left	Cheek	QPSK	1	36	1:1	0.147	33.58	
831.5	26865	Mid	LTE Band 26 (Cell)	15	24.24	1	Left	Cheek	QPSK	36	18	1:1	0.122	33.38	
831.5	26865	Mid	LTE Band 26 (Cell)	15	25.25	0	Left	Tilt	QPSK	1	36	1:1	0.087	35.85	
831.5	26865	Mid	LTE Band 26 (Cell)	15	24.24	1	Left	Tilt	QPSK	36	18	1:1	0.069	35.85	
836.5	20525	Mid	LTE Band 5 (Cell)	10	25.15	0	Right	Cheek	QPSK	1	0	1:1	0.108	34.82	33.14
836.5	20525	Mid	LTE Band 5 (Cell)	10	24.16	1	Right	Cheek	QPSK	25	12	1:1	0.094	34.43	
836.5	20525	Mid	LTE Band 5 (Cell)	10	25.15	0	Right	Tilt	QPSK	1	0	1:1	0.096	35.33	
836.5	20525	Mid	LTE Band 5 (Cell)	10	24.16	1	Right	Tilt	QPSK	25	12	1:1	0.078	35.24	
836.5	20525	Mid	LTE Band 5 (Cell)	10	25.15	0	Left	Cheek	QPSK	1	0	1:1	0.159	33.14	
836.5	20525	Mid	LTE Band 5 (Cell)	10	24.16	1	Left	Cheek	QPSK	25	12	1:1	0.122	33.30	
836.5	20525	Mid	LTE Band 5 (Cell)	10	25.15	0	Left	Tilt	QPSK	1	0	1:1	0.090	35.61	
836.5	20525	Mid	LTE Band 5 (Cell)	10	24.16	1	Left	Tilt	QPSK	25	12	1:1	0.074	35.47	

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

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Table A-3
DSI = 2 P_{Limit} Calculations – 4G Head SAR

MEASUREMENT RESULTS															
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Side	Test Position	Modulation	RB Size	RB Offset	Duty Cycle	SAR (1g)	PLimit	Minimum PLimit [dBm]
MHz	Ch.												(W/kg)	[dBm]	
1720.0	132072	Low	LTE Band 66 (AWS)	20	23.68	0	Right	Cheek	QPSK	1	50	1:1	0.119	32.92	32.87
1720.0	132072	Low	LTE Band 66 (AWS)	20	22.91	1	Right	Cheek	QPSK	50	25	1:1	0.101	32.87	
1720.0	132072	Low	LTE Band 66 (AWS)	20	23.68	0	Right	Tilt	QPSK	1	50	1:1	0.086	34.34	
1720.0	132072	Low	LTE Band 66 (AWS)	20	22.91	1	Right	Tilt	QPSK	50	25	1:1	0.073	34.28	
1720.0	132072	Low	LTE Band 66 (AWS)	20	23.68	0	Left	Cheek	QPSK	1	50	1:1	0.102	33.59	
1720.0	132072	Low	LTE Band 66 (AWS)	20	22.91	1	Left	Cheek	QPSK	50	25	1:1	0.078	33.99	
1720.0	132072	Low	LTE Band 66 (AWS)	20	23.68	0	Left	Tilt	QPSK	1	50	1:1	0.099	33.72	32.95
1720.0	132072	Low	LTE Band 66 (AWS)	20	22.91	1	Left	Tilt	QPSK	50	25	1:1	0.075	34.16	
1860.0	26140	Low	LTE Band 25 (PCS)	20	23.75	0	Right	Cheek	QPSK	1	50	1:1	0.111	33.30	
1860.0	26140	Low	LTE Band 25 (PCS)	20	22.82	1	Right	Cheek	QPSK	50	0	1:1	0.097	32.95	
1860.0	26140	Low	LTE Band 25 (PCS)	20	23.75	0	Right	Tilt	QPSK	1	50	1:1	0.078	34.83	
1860.0	26140	Low	LTE Band 25 (PCS)	20	22.82	1	Right	Tilt	QPSK	50	0	1:1	0.059	35.11	
1860.0	26140	Low	LTE Band 25 (PCS)	20	23.75	0	Left	Cheek	QPSK	1	50	1:1	0.083	34.56	36.59
1860.0	26140	Low	LTE Band 25 (PCS)	20	22.82	1	Left	Cheek	QPSK	50	0	1:1	0.077	33.96	
1860.0	26140	Low	LTE Band 25 (PCS)	20	23.75	0	Left	Tilt	QPSK	1	50	1:1	0.074	35.06	
1860.0	26140	Low	LTE Band 25 (PCS)	20	22.82	1	Left	Tilt	QPSK	50	0	1:1	0.064	34.76	
2310.0	27710	Mid	LTE Band 30	10	23.58	0	Right	Cheek	QPSK	1	49	1:1	0.046	36.95	
2310.0	27710	Mid	LTE Band 30	10	22.63	1	Right	Cheek	QPSK	25	12	1:1	0.040	36.61	
2310.0	27710	Mid	LTE Band 30	10	23.58	0	Right	Tilt	QPSK	1	49	1:1	0.020	40.57	32.58
2310.0	27710	Mid	LTE Band 30	10	22.63	1	Right	Tilt	QPSK	25	12	1:1	0.016	40.59	
2310.0	27710	Mid	LTE Band 30	10	23.58	0	Left	Cheek	QPSK	1	49	1:1	0.050	36.59	
2310.0	27710	Mid	LTE Band 30	10	22.63	1	Left	Cheek	QPSK	25	12	1:1	0.039	36.72	
2310.0	27710	Mid	LTE Band 30	10	23.58	0	Left	Tilt	QPSK	1	49	1:1	0.029	38.96	
2310.0	27710	Mid	LTE Band 30	10	22.63	1	Left	Tilt	QPSK	25	12	1:1	0.027	38.32	
2510.0	20850	Low	LTE Band 7	20	23.17	0	Right	Cheek	QPSK	1	0	1:1	0.106	32.92	20.07
2510.0	20850	Low	LTE Band 7	20	22.22	1	Right	Cheek	QPSK	50	0	1:1	0.092	32.58	
2510.0	20850	Low	LTE Band 7	20	23.17	0	Right	Tilt	QPSK	1	0	1:1	0.048	36.36	
2510.0	20850	Low	LTE Band 7	20	22.22	1	Right	Tilt	QPSK	50	0	1:1	0.034	36.91	
2510.0	20850	Low	LTE Band 7	20	23.17	0	Left	Cheek	QPSK	1	0	1:1	0.071	34.66	
2510.0	20850	Low	LTE Band 7	20	22.22	1	Left	Cheek	QPSK	50	0	1:1	0.052	35.06	
2510.0	20850	Low	LTE Band 7	20	23.17	0	Left	Tilt	QPSK	1	0	1:1	0.072	34.60	34.72
2510.0	20850	Low	LTE Band 7	20	22.22	1	Left	Tilt	QPSK	50	0	1:1	0.069	33.83	
3646.7	56207	Mid-High	LTE Band 48	20	18.40	0	Right	Cheek	QPSK	1	50	1:1.58	0.331	21.22	
3646.7	56207	Mid-High	LTE Band 48	20	18.58	0	Right	Cheek	QPSK	50	25	1:1.58	0.337	21.32	
3646.7	56207	Mid-High	LTE Band 48	20	18.40	0	Right	Tilt	QPSK	1	50	1:1.58	0.427	20.11	
3646.7	56207	Mid-High	LTE Band 48	20	18.58	0	Right	Tilt	QPSK	50	25	1:1.58	0.449	20.07	
3646.7	56207	Mid-High	LTE Band 48	20	18.40	0	Left	Cheek	QPSK	1	50	1:1.58	0.094	26.68	34.72
3646.7	56207	Mid-High	LTE Band 48	20	18.58	0	Left	Cheek	QPSK	50	25	1:1.58	0.097	26.73	
3646.7	56207	Mid-High	LTE Band 48	20	18.40	0	Left	Tilt	QPSK	1	50	1:1.58	0.106	26.16	
3646.7	56207	Mid-High	LTE Band 48	20	18.58	0	Left	Tilt	QPSK	50	25	1:1.58	0.105	26.38	
2506.0	39750	Low	LTE Band 41	20	24.11	0	Right	Cheek	QPSK	1	99	1:1.58	0.052	34.96	
2506.0	39750	Low	LTE Band 41	20	23.23	1	Right	Cheek	QPSK	50	25	1:1.58	0.043	34.91	
2506.0	39750	Low	LTE Band 41	20	24.11	0	Right	Tilt	QPSK	1	99	1:1.58	0.028	37.65	34.72
2506.0	39750	Low	LTE Band 41	20	23.23	1	Right	Tilt	QPSK	50	25	1:1.58	0.021	38.02	
2506.0	39750	Low	LTE Band 41	20	24.11	0	Left	Cheek	QPSK	1	99	1:1.58	0.055	34.72	
2506.0	39750	Low	LTE Band 41	20	23.23	1	Left	Cheek	QPSK	50	25	1:1.58	0.040	35.22	
2506.0	39750	Low	LTE Band 41	20	24.11	0	Left	Tilt	QPSK	1	99	1:1.58	0.048	35.31	
2506.0	39750	Low	LTE Band 41	20	23.23	1	Left	Tilt	QPSK	50	25	1:1.58	0.041	35.12	

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

FCC ID: A3LSMN986U	 PART 0 SAR CHAR REPORT 	Approved by: Quality Manager
Test Dates: 04/22/20 – 06/07/20	DUT Type: Portable Handset	APPENDIX A: Page 3 of 21

Table A-4
DSI = 2 P_{Limit} Calculations – 5G Head SAR

MEASUREMENT RESULTS															
FREQUENCY		Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Side	Test Position	Modulation	RB Size	RB Offset	Duty Cycle	SAR (1g) [W/kg]	PLimit [dBm]	Minimum PLimit [dBm]	
MHz	Ch.														
680.50	136100	Mid	NR Band n71	20	25.05	0	Right	Cheek	DFT-s-OFDM QPSK	1	53	1:1	0.083	35.86	34.45
680.50	136100	Mid	NR Band n71	20	24.66	0	Right	Cheek	DFT-s-OFDM QPSK	50	28	1:1	0.083	35.47	
680.50	136100	Mid	NR Band n71	20	25.05	0	Right	Tilt	DFT-s-OFDM QPSK	1	53	1:1	0.043	38.72	
680.50	136100	Mid	NR Band n71	20	24.66	0	Right	Tilt	DFT-s-OFDM QPSK	50	28	1:1	0.046	38.03	
680.50	136100	Mid	NR Band n71	20	25.05	0	Left	Cheek	DFT-s-OFDM QPSK	1	53	1:1	0.112	34.56	
680.50	136100	Mid	NR Band n71	20	24.66	0	Left	Cheek	DFT-s-OFDM QPSK	50	28	1:1	0.105	34.45	
680.50	136100	Mid	NR Band n71	20	25.05	0	Left	Tilt	DFT-s-OFDM QPSK	1	53	1:1	0.049	38.15	
680.50	136100	Mid	NR Band n71	20	24.66	0	Left	Tilt	DFT-s-OFDM QPSK	50	28	1:1	0.047	37.94	
680.50	136100	Mid	NR Band n71	20	23.41	1.5	Left	Cheek	CP-OFDM QPSK	1	1	1:1	0.068	35.08	34.37
707.50	141500	Mid	NR Band n12	15	24.78	0	Right	Cheek	DFT-s-OFDM QPSK	1	77	1:1	0.080	35.75	
707.50	141500	Mid	NR Band n12	15	24.54	0	Right	Cheek	DFT-s-OFDM QPSK	36	22	1:1	0.095	34.76	
707.50	141500	Mid	NR Band n12	15	24.78	0	Right	Tilt	DFT-s-OFDM QPSK	1	77	1:1	0.041	38.65	
707.50	141500	Mid	NR Band n12	15	24.54	0	Right	Tilt	DFT-s-OFDM QPSK	36	22	1:1	0.051	37.46	
707.50	141500	Mid	NR Band n12	15	24.78	0	Left	Cheek	DFT-s-OFDM QPSK	1	77	1:1	0.110	34.37	
707.50	141500	Mid	NR Band n12	15	24.54	0	Left	Cheek	DFT-s-OFDM QPSK	36	22	1:1	0.104	34.37	
707.50	141500	Mid	NR Band n12	15	24.78	0	Left	Tilt	DFT-s-OFDM QPSK	1	77	1:1	0.043	38.45	
707.50	141500	Mid	NR Band n12	15	24.54	0	Left	Tilt	DFT-s-OFDM QPSK	36	22	1:1	0.048	37.73	
707.50	141500	Mid	NR Band n12	15	22.95	1.5	Left	Cheek	CP-OFDM QPSK	1	1	1:1	0.053	35.71	
836.50	167300	Mid	NR Band n5	20	25.06	0	Right	Cheek	DFT-s-OFDM QPSK	1	53	1:1	0.111	34.61	32.87
836.50	167300	Mid	NR Band n5	20	24.67	0	Right	Cheek	DFT-s-OFDM QPSK	50	28	1:1	0.107	34.38	
836.50	167300	Mid	NR Band n5	20	25.06	0	Right	Tilt	DFT-s-OFDM QPSK	1	53	1:1	0.090	35.52	
836.50	167300	Mid	NR Band n5	20	24.67	0	Right	Tilt	DFT-s-OFDM QPSK	50	28	1:1	0.082	35.53	
836.50	167300	Mid	NR Band n5	20	25.06	0	Left	Cheek	DFT-s-OFDM QPSK	1	53	1:1	0.161	32.99	
836.50	167300	Mid	NR Band n5	20	24.67	0	Left	Cheek	DFT-s-OFDM QPSK	50	28	1:1	0.149	32.94	
836.50	167300	Mid	NR Band n5	20	25.06	0	Left	Tilt	DFT-s-OFDM QPSK	1	53	1:1	0.086	35.72	
836.50	167300	Mid	NR Band n5	20	24.67	0	Left	Tilt	DFT-s-OFDM QPSK	50	28	1:1	0.087	35.27	
836.50	167300	Mid	NR Band n5	20	23.04	1.5	Left	Cheek	CP-OFDM QPSK	1	1	1:1	0.104	32.87	
1720.00	344000	Low	NR Band n66	20	23.93	0	Right	Cheek	DFT-s-OFDM QPSK	1	53	1:1	0.120	33.14	32.88
1720.00	344000	Low	NR Band n66	20	23.67	0	Right	Cheek	DFT-s-OFDM QPSK	50	28	1:1	0.120	32.88	
1720.00	344000	Low	NR Band n66	20	23.93	0	Right	Tilt	DFT-s-OFDM QPSK	1	53	1:1	0.091	34.34	
1720.00	344000	Low	NR Band n66	20	23.67	0	Right	Tilt	DFT-s-OFDM QPSK	50	28	1:1	0.085	34.38	
1720.00	344000	Low	NR Band n66	20	23.93	0	Left	Cheek	DFT-s-OFDM QPSK	1	53	1:1	0.107	33.64	
1720.00	344000	Low	NR Band n66	20	23.67	0	Left	Cheek	DFT-s-OFDM QPSK	50	28	1:1	0.098	33.76	
1720.00	344000	Low	NR Band n66	20	23.93	0	Left	Tilt	DFT-s-OFDM QPSK	1	53	1:1	0.097	34.06	
1720.00	344000	Low	NR Band n66	20	23.67	0	Left	Tilt	DFT-s-OFDM QPSK	50	28	1:1	0.089	34.18	
1745.00	349000	Mid	NR Band n66	20	22.12	1.5	Right	Cheek	CP-OFDM QPSK	1	1	1:1	0.077	33.26	
1905.00	381000	High	NR Band n25	20	23.91	0	Right	Cheek	DFT-s-OFDM QPSK	1	53	1:1	0.124	32.98	32.77
1905.00	381000	High	NR Band n25	20	23.91	0	Right	Cheek	DFT-s-OFDM QPSK	50	28	1:1	0.125	32.80	
1905.00	381000	High	NR Band n25	20	23.91	0	Right	Tilt	DFT-s-OFDM QPSK	1	53	1:1	0.058	36.28	
1905.00	381000	High	NR Band n25	20	23.91	0	Right	Tilt	DFT-s-OFDM QPSK	50	28	1:1	0.051	36.83	
1905.00	381000	High	NR Band n25	20	23.91	0	Left	Cheek	DFT-s-OFDM QPSK	1	53	1:1	0.099	33.95	
1905.00	381000	High	NR Band n25	20	23.91	0	Left	Cheek	DFT-s-OFDM QPSK	50	28	1:1	0.091	34.32	
1905.00	381000	High	NR Band n25	20	23.91	0	Left	Tilt	DFT-s-OFDM QPSK	1	53	1:1	0.101	33.87	
1905.00	381000	High	NR Band n25	20	23.91	0	Left	Tilt	DFT-s-OFDM QPSK	50	28	1:1	0.098	34.00	
1905.00	381000	High	NR Band n25	20	22.31	1.5	Right	Cheek	CP-OFDM QPSK	1	1	1:1	0.090	32.77	
2592.99	518598	Mid	NR Band n41	100	22.91	0	Right	Cheek	DFT-s-OFDM QPSK	1	1	1:4	0.511	19.81	18.55
2592.99	518598	Mid	NR Band n41	100	22.87	0	Right	Cheek	DFT-s-OFDM QPSK	135	0	1:4	0.467	20.16	
2592.99	518598	Mid	NR Band n41	100	22.91	0	Right	Tilt	DFT-s-OFDM QPSK	1	1	1:4	0.682	18.55	
2592.99	518598	Mid	NR Band n41	100	22.87	0	Right	Tilt	DFT-s-OFDM QPSK	135	0	1:4	0.580	19.22	
2592.99	518598	Mid	NR Band n41	100	22.82	0	Right	Tilt	DFT-s-OFDM QPSK	270	0	1:4	0.590	19.09	
2592.99	518598	Mid	NR Band n41	100	22.91	0	Left	Cheek	DFT-s-OFDM QPSK	1	1	1:4	0.547	19.51	
2592.99	518598	Mid	NR Band n41	100	22.87	0	Left	Cheek	DFT-s-OFDM QPSK	135	0	1:4	0.487	19.97	
2592.99	518598	Mid	NR Band n41	100	22.82	0	Left	Cheek	DFT-s-OFDM QPSK	270	0	1:4	0.477	20.01	
2592.99	518598	Mid	NR Band n41	100	22.91	0	Left	Tilt	DFT-s-OFDM QPSK	1	1	1:4	0.627	18.92	
2592.99	518598	Mid	NR Band n41	100	22.87	0	Left	Tilt	DFT-s-OFDM QPSK	135	0	1:4	0.609	19.00	
2592.99	518598	Mid	NR Band n41	100	22.82	0	Left	Tilt	DFT-s-OFDM QPSK	270	0	1:4	0.518	19.66	
2592.99	518598	Mid	NR Band n41	100	22.87	0	Right	Tilt	CP-OFDM QPSK	1	1	1:4	0.501	19.85	

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

FCC ID: A3LSMN986U	 PART 0 SAR CHAR REPORT 	Approved by: Quality Manager
Test Dates: 04/22/20 – 06/07/20 © 2020 PCTEST	DUT Type: Portable Handset	APPENDIX A: Page 4 of 21

REV 1.0
06/01/2019

Table A-5
DSI = 0 P_{Limit} Calculations – 2G/3G Body-Worn SAR

MEASUREMENT RESULTS										
FREQUENCY		Mode/Band	Service	Conducted Power [dBm]	Spacing (mm)	Side	Duty Cycle	SAR (1g)	PLimit	Minimum PLimit
MHz	Ch.							(W/kg)	[dBm]	[dBm]
820.10	564	CDMA BC10 (§90S)	TDSO / SO32	24.69	15	Back	1:1	0.349	29.26	29.26
836.52	384	CDMA BC0 (§22H)	TDSO / SO32	24.92	15	Back	1:1	0.335	29.67	29.67
1851.25	25	PCS CDMA	TDSO / SO32	23.59	15	Back	1:1	0.604	25.78	25.65
1880.00	600	PCS CDMA	TDSO / SO32	23.36	15	Back	1:1	0.585	25.69	
1908.75	1175	PCS CDMA	TDSO / SO32	23.82	15	Back	1:1	0.656	25.65	
836.60	190	GSM 850	GSM	32.86	15	Back	1:8.3	0.238	29.89	29.89
1880.00	661	GSM 1900	GSM	29.74	15	Back	1:8.3	0.334	25.30	25.30
836.60	4183	UMTS 850	RMC	25.20	15	Back	1:1	0.324	30.09	30.09
1712.40	1312	UMTS 1750	RMC	23.91	15	Back	1:1	0.618	26.00	25.50
1732.40	1412	UMTS 1750	RMC	23.89	15	Back	1:1	0.690	25.50	
1752.60	1513	UMTS 1750	RMC	23.88	15	Back	1:1	0.610	26.03	
1852.40	9262	UMTS 1900	RMC	23.75	15	Back	1:1	0.586	26.07	25.14
1880.00	9400	UMTS 1900	RMC	23.34	15	Back	1:1	0.661	25.14	
1907.60	9538	UMTS 1900	RMC	23.68	15	Back	1:1	0.710	25.17	

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

FCC ID: A3LSMN986U		PART 0 SAR CHAR REPORT		Approved by: Quality Manager
Test Dates: 04/22/20 – 06/07/20	DUT Type: Portable Handset			APPENDIX A: Page 5 of 21

Table A-6
DSI = 0 P_{Limit} Calculations – 4G Body-Worn SAR

MEASUREMENT RESULTS															
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Modulation	RB Size	RB Offset	Spacing (mm)	Side	Duty Cycle	SAR (1g)	PLimit	Minimum PLimit
MHz	Ch.												[W/kg]	[dBm]	[dBm]
680.50	133297	Mid	LTE Band 71	20	25.17	0	QPSK	1	0	15	Back	1:1	0.213	31.89	31.53
680.50	133297	Mid	LTE Band 71	20	24.20	1	QPSK	50	0	15	Back	1:1	0.185	31.53	
707.50	23095	Mid	LTE Band 12	10	25.23	0	QPSK	1	0	15	Back	1:1	0.220	31.81	31.69
707.50	23095	Mid	LTE Band 12	10	24.31	1	QPSK	25	12	15	Back	1:1	0.183	31.69	
782.00	23230	Mid	LTE Band 13	10	25.21	0	QPSK	1	25	15	Back	1:1	0.335	29.96	29.42
782.00	23230	Mid	LTE Band 13	10	24.28	1	QPSK	25	0	15	Back	1:1	0.306	29.42	
793.00	23330	Mid	LTE Band 14	10	25.06	0	QPSK	1	0	15	Back	1:1	0.361	29.48	29.48
793.00	23330	Mid	LTE Band 14	10	24.07	1	QPSK	25	25	15	Back	1:1	0.264	29.85	
831.50	26865	Mid	LTE Band 26 (Cell)	15	25.25	0	QPSK	1	36	15	Back	1:1	0.295	30.55	30.49
831.50	26865	Mid	LTE Band 26 (Cell)	15	24.24	1	QPSK	36	18	15	Back	1:1	0.237	30.49	
836.50	20525	Mid	LTE Band 5 (Cell)	10	25.15	0	QPSK	1	0	15	Back	1:1	0.319	30.11	29.75
836.50	20525	Mid	LTE Band 5 (Cell)	10	24.16	1	QPSK	25	12	15	Back	1:1	0.276	29.75	
1720.00	132072	Low	LTE Band 66 (AWS)	20	23.68	0	QPSK	1	50	15	Back	1:1	0.717	25.12	24.86
1745.00	132322	Mid	LTE Band 66 (AWS)	20	23.54	0	QPSK	1	50	15	Back	1:1	0.738	24.86	
1770.00	132572	High	LTE Band 66 (AWS)	20	23.67	0	QPSK	1	0	15	Back	1:1	0.760	24.86	
1720.00	132072	Low	LTE Band 66 (AWS)	20	22.91	1	QPSK	50	25	15	Back	1:1	0.585	25.24	
1720.00	132072	Low	LTE Band 66 (AWS)	20	22.84	1	QPSK	100	0	15	Back	1:1	0.586	25.16	
1860.00	26140	Low	LTE Band 25 (PCS)	20	23.75	0	QPSK	1	50	15	Back	1:1	0.680	25.42	25.28
1882.50	26365	Mid	LTE Band 25 (PCS)	20	23.67	0	QPSK	1	50	15	Back	1:1	0.641	25.60	
1905.00	26590	High	LTE Band 25 (PCS)	20	23.66	0	QPSK	1	99	15	Back	1:1	0.684	25.31	
1860.00	26140	Low	LTE Band 25 (PCS)	20	22.82	1	QPSK	50	0	15	Back	1:1	0.548	25.43	
1905.00	26590	High	LTE Band 25 (PCS)	20	22.68	1	QPSK	100	0	15	Back	1:1	0.550	25.28	
2310.00	27710	Mid	LTE Band 30	10	23.58	0	QPSK	1	49	15	Back	1:1	0.481	26.76	26.45
2310.00	27710	Mid	LTE Band 30	10	22.63	1	QPSK	25	12	15	Back	1:1	0.415	26.45	
2510.00	20850	Low	LTE Band 7	20	23.17	0	QPSK	1	0	15	Back	1:1	0.387	27.29	26.88
2510.00	20850	Low	LTE Band 7	20	22.22	1	QPSK	50	0	15	Back	1:1	0.342	26.88	
3603.30	55773	Low-Mid	LTE Band 48	20	24.80	0	QPSK	1	50	15	Back	1:1.58	0.249	28.85	28.62
3603.30	55773	Low-Mid	LTE Band 48	20	23.66	1	QPSK	50	25	15	Back	1:1.58	0.202	28.62	
2506.00	39750	Low	LTE Band 41	20	24.11	0	QPSK	1	99	15	Back	1:1.58	0.203	29.05	29.05
2506.00	39750	Low	LTE Band 41	20	23.23	1	QPSK	50	25	15	Back	1:1.58	0.161	29.18	

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

FCC ID: A3LSMN986U	 PCTEST Proud to be part of element	PART 0 SAR CHAR REPORT		Approved by: Quality Manager
Test Dates: 04/22/20 – 06/07/20	DUT Type: Portable Handset	APPENDIX A: Page 6 of 21		

Table A-7
DSI = 0 P_{Limit} Calculations – 5G Body-Worn SAR

MEASUREMENT RESULTS															
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Modulation	RB Size	RB Offset	Spacing (mm)	Side	Duty Cycle	SAR (1g)	PLimit	Minimum PLimit
MHz	Ch.												(W/kg)	[dBm]	[dBm]
680.50	136100	Mid	NR Band n71	20	25.05	0	DFT-s-OFDM QPSK	1	53	15	Back	1:1	0.205	31.93	31.77
680.50	136100	Mid	NR Band n71	20	24.66	0	DFT-s-OFDM QPSK	50	28	15	Back	1:1	0.193	31.80	
680.50	136100	Mid	NR Band n71	20	23.41	1.5	CP-OFDM QPSK	1	1	15	Back	1:1	0.146	31.77	
707.50	141500	Mid	NR Band n12	15	24.78	0	DFT-s-OFDM QPSK	1	77	15	Back	1:1	0.192	31.95	31.95
707.50	141500	Mid	NR Band n12	15	24.54	0	DFT-s-OFDM QPSK	36	22	15	Back	1:1	0.174	32.13	
707.50	141500	Mid	NR Band n12	15	22.95	1.5	CP-OFDM QPSK	1	1	15	Back	1:1	0.101	32.91	
836.50	167300	Mid	NR Band n5	20	25.06	0	DFT-s-OFDM QPSK	1	53	15	Back	1:1	0.264	30.84	30.60
836.50	167300	Mid	NR Band n5	20	24.67	0	DFT-s-OFDM QPSK	50	28	15	Back	1:1	0.255	30.60	
836.50	167300	Mid	NR Band n5	20	23.04	1.5	CP-OFDM QPSK	1	1	15	Back	1:1	0.146	31.40	
1720.00	344000	Low	NR Band n66	20	23.93	0	DFT-s-OFDM QPSK	1	53	15	Back	1:1	0.782	25.00	24.34
1745.00	349000	Mid	NR Band n66	20	23.78	0	DFT-s-OFDM QPSK	1	53	15	Back	1:1	0.860	24.44	
1770.00	354000	High	NR Band n66	20	23.76	0	DFT-s-OFDM QPSK	1	53	15	Back	1:1	0.707	25.27	
1720.00	344000	Low	NR Band n66	20	23.67	0	DFT-s-OFDM QPSK	50	28	15	Back	1:1	0.765	24.83	
1745.00	349000	Mid	NR Band n66	20	23.54	0	DFT-s-OFDM QPSK	50	28	15	Back	1:1	0.831	24.34	
1770.00	354000	High	NR Band n66	20	23.56	0	DFT-s-OFDM QPSK	50	28	15	Back	1:1	0.718	25.00	
1720.00	344000	Low	NR Band n66	20	22.69	0	DFT-s-OFDM QPSK	100	0	15	Back	1:1	0.683	24.35	
1745.00	349000	Mid	NR Band n66	20	22.12	1.5	CP-OFDM QPSK	1	1	15	Back	1:1	0.557	24.66	
1860.00	372000	Low	NR Band n25	20	23.87	0	DFT-s-OFDM QPSK	1	53	15	Back	1:1	0.641	25.80	25.72
1882.50	376500	Mid	NR Band n25	20	23.47	0	DFT-s-OFDM QPSK	1	1	15	Back	1:1	0.546	26.10	
1905.00	381000	High	NR Band n25	20	23.91	0	DFT-s-OFDM QPSK	1	53	15	Back	1:1	0.659	25.72	
1905.00	381000	High	NR Band n25	20	23.91	0	DFT-s-OFDM QPSK	50	28	15	Back	1:1	0.653	25.76	
1905.00	381000	High	NR Band n25	20	22.31	1.5	CP-OFDM QPSK	1	1	15	Back	1:1	0.397	26.32	
2592.99	518598	Mid	NR Band n41	100	24.56	0	DFT-s-OFDM QPSK	1	137	15	Back	1:4	0.081	29.45	28.44
2592.99	518598	Mid	NR Band n41	100	24.32	0	DFT-s-OFDM QPSK	135	69	15	Back	1:4	0.078	29.38	
2592.99	518598	Mid	NR Band n41	100	23.03	1.5	CP-OFDM QPSK	1	1	15	Back	1:4	0.072	28.44	

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

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06/01/2019

Table A-8
DSI = 3 P_{Limit} Calculations – 2G/3G Hotspot SAR

MEASUREMENT RESULTS											
FREQUENCY		Mode/Band	Service	Conducted Power [dBm]	Spacing (mm)	Side	# of GPRS Slots	Duty Cycle	SAR (1g)	PLimit	Minimum PLimit
MHz	Ch.								(W/kg)	[dBm]	[dBm]
820.10	564	CDMA BC10 (§90S)	EVDO Rev. 0	24.38	10	Back	N/A	1:1	0.799	25.35	25.35
820.10	564	CDMA BC10 (§90S)	EVDO Rev. 0	24.38	10	Front	N/A	1:1	0.529	27.15	
820.10	564	CDMA BC10 (§90S)	EVDO Rev. 0	24.38	10	Bottom	N/A	1:1	0.400	28.36	
820.10	564	CDMA BC10 (§90S)	EVDO Rev. 0	24.38	10	Right	N/A	1:1	0.060	36.60	
820.10	564	CDMA BC10 (§90S)	EVDO Rev. 0	24.38	10	Left	N/A	1:1	0.226	30.84	
824.70	1013	CDMA BC0 (§22H)	EVDO Rev. 0	24.61	10	Back	N/A	1:1	0.626	26.64	26.31
836.52	384	CDMA BC0 (§22H)	EVDO Rev. 0	24.38	10	Back	N/A	1:1	0.641	26.31	
848.31	777	CDMA BC0 (§22H)	EVDO Rev. 0	24.21	10	Back	N/A	1:1	0.571	26.64	
836.52	384	CDMA BC0 (§22H)	EVDO Rev. 0	24.38	10	Front	N/A	1:1	0.460	27.75	
836.52	384	CDMA BC0 (§22H)	EVDO Rev. 0	24.38	10	Bottom	N/A	1:1	0.366	28.75	
836.52	384	CDMA BC0 (§22H)	EVDO Rev. 0	24.38	10	Right	N/A	1:1	0.045	37.85	18.60
836.52	384	CDMA BC0 (§22H)	EVDO Rev. 0	24.38	10	Left	N/A	1:1	0.211	31.14	
1880.00	600	PCS CDMA	EVDO Rev. 0	18.70	10	Back	N/A	1:1	0.534	21.42	
1880.00	600	PCS CDMA	EVDO Rev. 0	18.70	10	Front	N/A	1:1	0.362	23.11	
1851.25	25	PCS CDMA	EVDO Rev. 0	18.99	10	Bottom	N/A	1:1	0.876	19.56	
1880.00	600	PCS CDMA	EVDO Rev. 0	18.70	10	Bottom	N/A	1:1	0.913	19.10	26.74
1908.75	1175	PCS CDMA	EVDO Rev. 0	18.93	10	Bottom	N/A	1:1	1.080	18.60	
1880.00	600	PCS CDMA	EVDO Rev. 0	18.70	10	Right	N/A	1:1	0.066	30.50	
1880.00	600	PCS CDMA	EVDO Rev. 0	18.70	10	Left	N/A	1:1	0.050	31.71	
824.20	128	GSM 850	GPRS	29.71	10	Back	3	1:2.76	0.574	27.69	
836.60	190	GSM 850	GPRS	29.42	10	Back	3	1:2.76	0.668	26.74	20.52
848.80	251	GSM 850	GPRS	29.81	10	Back	3	1:2.76	0.547	28.00	
836.60	190	GSM 850	GPRS	29.42	10	Front	3	1:2.76	0.295	30.29	
836.60	190	GSM 850	GPRS	29.42	10	Bottom	3	1:2.76	0.227	31.43	
836.60	190	GSM 850	GPRS	29.42	10	Right	3	1:2.76	0.033	39.80	
836.60	190	GSM 850	GPRS	29.42	10	Left	3	1:2.76	0.134	33.72	27.22
1880.00	661	GSM 1900	GPRS	22.10	10	Back	4	1:2.076	0.315	23.94	
1880.00	661	GSM 1900	GPRS	22.10	10	Front	4	1:2.076	0.255	24.85	
1850.20	512	GSM 1900	GPRS	22.26	10	Bottom	4	1:2.076	0.630	21.09	
1880.00	661	GSM 1900	GPRS	22.10	10	Bottom	4	1:2.076	0.617	21.02	
1909.80	810	GSM 1900	GPRS	22.20	10	Bottom	4	1:2.076	0.708	20.52	19.28
1880.00	661	GSM 1900	GPRS	22.10	10	Right	4	1:2.076	0.037	33.24	
1880.00	661	GSM 1900	GPRS	22.10	10	Left	4	1:2.076	0.036	33.36	
826.40	4132	UMTS 850	RMC	25.18	10	Back	N/A	1:1	0.561	27.69	
836.60	4183	UMTS 850	RMC	25.20	10	Back	N/A	1:1	0.628	27.22	
846.60	4233	UMTS 850	RMC	24.85	10	Back	N/A	1:1	0.473	28.10	18.60
836.60	4183	UMTS 850	RMC	25.20	10	Front	N/A	1:1	0.434	28.83	
836.60	4183	UMTS 850	RMC	25.20	10	Bottom	N/A	1:1	0.353	29.72	
836.60	4183	UMTS 850	RMC	25.20	10	Right	N/A	1:1	0.042	38.97	
836.60	4183	UMTS 850	RMC	25.20	10	Left	N/A	1:1	0.206	32.06	
1752.60	1513	UMTS 1750	RMC	19.80	10	Back	N/A	1:1	0.341	24.47	18.60
1752.60	1513	UMTS 1750	RMC	19.80	10	Front	N/A	1:1	0.273	25.44	
1712.40	1312	UMTS 1750	RMC	19.32	10	Bottom	N/A	1:1	0.927	19.65	
1732.40	1412	UMTS 1750	RMC	19.24	10	Bottom	N/A	1:1	0.991	19.28	
1752.60	1513	UMTS 1750	RMC	19.80	10	Bottom	N/A	1:1	0.968	19.94	
1752.60	1513	UMTS 1750	RMC	19.80	10	Right	N/A	1:1	0.055	32.40	18.60
1752.60	1513	UMTS 1750	RMC	19.80	10	Left	N/A	1:1	0.053	32.56	
1880.00	9400	UMTS 1900	RMC	18.26	10	Back	N/A	1:1	0.427	21.96	
1880.00	9400	UMTS 1900	RMC	18.26	10	Front	N/A	1:1	0.288	23.67	
1852.40	9262	UMTS 1900	RMC	18.59	10	Bottom	N/A	1:1	0.840	19.35	
1880.00	9400	UMTS 1900	RMC	18.26	10	Bottom	N/A	1:1	0.854	18.95	18.60
1907.60	9538	UMTS 1900	RMC	18.49	10	Bottom	N/A	1:1	0.975	18.60	
1880.00	9400	UMTS 1900	RMC	18.26	10	Right	N/A	1:1	0.043	31.93	
1880.00	9400	UMTS 1900	RMC	18.26	10	Left	N/A	1:1	0.046	31.63	

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

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REV 1.0
06/01/2019

Table A-9
DSI = 3 P_{Limit} Calculations – 4G Hotspot SAR

MEASUREMENT RESULTS															
FREQUENCY		Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Modulation	RB Size	RB Offset	Spacing (mm)	Side	Duty Cycle	SAR (1g) (W/kg)	PLimit	Minimum PLimit (dBm)	
MHz	Ch.														
680.50	133297	Mid	LTE Band 71	20	25.17	0	QPSK	1	0	10	Back	1:1	0.333	29.95	29.71
680.50	133297	Mid	LTE Band 71	20	24.20	1	QPSK	50	0	10	Back	1:1	0.281	29.71	
680.50	133297	Mid	LTE Band 71	20	25.17	0	QPSK	1	0	10	Front	1:1	0.204	32.07	
680.50	133297	Mid	LTE Band 71	20	24.20	1	QPSK	50	0	10	Front	1:1	0.164	32.05	
680.50	133297	Mid	LTE Band 71	20	25.17	0	QPSK	1	0	10	Bottom	1:1	0.173	32.79	
680.50	133297	Mid	LTE Band 71	20	24.20	1	QPSK	50	0	10	Bottom	1:1	0.145	32.59	
680.50	133297	Mid	LTE Band 71	20	25.17	0	QPSK	1	0	10	Right	1:1	0.136	33.83	
680.50	133297	Mid	LTE Band 71	20	24.20	1	QPSK	50	0	10	Right	1:1	0.105	33.99	
680.50	133297	Mid	LTE Band 71	20	25.17	0	QPSK	1	0	10	Left	1:1	0.259	31.04	
680.50	133297	Mid	LTE Band 71	20	24.20	1	QPSK	50	0	10	Left	1:1	0.212	30.94	
707.50	23095	Mid	LTE Band 12	10	25.23	0	QPSK	1	0	10	Back	1:1	0.368	29.57	29.38
707.50	23095	Mid	LTE Band 12	10	24.31	1	QPSK	25	12	10	Back	1:1	0.311	29.38	
707.50	23095	Mid	LTE Band 12	10	25.23	0	QPSK	1	0	10	Front	1:1	0.227	31.67	
707.50	23095	Mid	LTE Band 12	10	24.31	1	QPSK	25	12	10	Front	1:1	0.197	31.37	
707.50	23095	Mid	LTE Band 12	10	25.23	0	QPSK	1	0	10	Bottom	1:1	0.189	32.47	
707.50	23095	Mid	LTE Band 12	10	24.31	1	QPSK	25	12	10	Bottom	1:1	0.166	32.06	
707.50	23095	Mid	LTE Band 12	10	25.23	0	QPSK	1	0	10	Right	1:1	0.145	33.62	
707.50	23095	Mid	LTE Band 12	10	24.31	1	QPSK	25	12	10	Right	1:1	0.122	33.45	
707.50	23095	Mid	LTE Band 12	10	25.23	0	QPSK	1	0	10	Left	1:1	0.268	30.95	
707.50	23095	Mid	LTE Band 12	10	24.31	1	QPSK	25	12	10	Left	1:1	0.241	30.49	
782.00	23230	Mid	LTE Band 13	10	25.21	0	QPSK	1	25	10	Back	1:1	0.648	27.09	27.05
782.00	23230	Mid	LTE Band 13	10	24.28	1	QPSK	25	0	10	Back	1:1	0.528	27.05	
782.00	23230	Mid	LTE Band 13	10	25.21	0	QPSK	1	25	10	Front	1:1	0.482	28.38	
782.00	23230	Mid	LTE Band 13	10	24.28	1	QPSK	25	0	10	Front	1:1	0.418	28.07	
782.00	23230	Mid	LTE Band 13	10	25.21	0	QPSK	1	25	10	Bottom	1:1	0.377	29.45	
782.00	23230	Mid	LTE Band 13	10	24.28	1	QPSK	25	0	10	Bottom	1:1	0.294	29.60	
782.00	23230	Mid	LTE Band 13	10	25.21	0	QPSK	1	25	10	Right	1:1	0.088	35.77	
782.00	23230	Mid	LTE Band 13	10	24.28	1	QPSK	25	0	10	Right	1:1	0.078	35.36	
782.00	23230	Mid	LTE Band 13	10	25.21	0	QPSK	1	25	10	Left	1:1	0.282	30.71	
782.00	23230	Mid	LTE Band 13	10	24.28	1	QPSK	25	0	10	Left	1:1	0.257	30.18	
793.00	23330	Mid	LTE Band 14	10	25.06	0	QPSK	1	0	10	Back	1:1	0.574	27.47	27.47
793.00	23330	Mid	LTE Band 14	10	24.07	1	QPSK	25	25	10	Back	1:1	0.431	27.73	
793.00	23330	Mid	LTE Band 14	10	25.06	0	QPSK	1	0	10	Front	1:1	0.460	28.43	
793.00	23330	Mid	LTE Band 14	10	24.07	1	QPSK	25	25	10	Front	1:1	0.333	28.85	
793.00	23330	Mid	LTE Band 14	10	25.06	0	QPSK	1	0	10	Bottom	1:1	0.369	29.39	
793.00	23330	Mid	LTE Band 14	10	24.07	1	QPSK	25	25	10	Bottom	1:1	0.293	29.40	
793.00	23330	Mid	LTE Band 14	10	25.06	0	QPSK	1	0	10	Right	1:1	0.088	35.62	
793.00	23330	Mid	LTE Band 14	10	24.07	1	QPSK	25	25	10	Right	1:1	0.052	36.91	
793.00	23330	Mid	LTE Band 14	10	25.06	0	QPSK	1	0	10	Left	1:1	0.308	30.17	
793.00	23330	Mid	LTE Band 14	10	24.07	1	QPSK	25	25	10	Left	1:1	0.199	31.08	
831.50	26865	Mid	LTE Band 26 (Cell)	15	25.25	0	QPSK	1	36	10	Back	1:1	0.611	27.39	27.33
831.50	26865	Mid	LTE Band 26 (Cell)	15	24.24	1	QPSK	36	18	10	Back	1:1	0.491	27.33	
831.50	26865	Mid	LTE Band 26 (Cell)	15	25.25	0	QPSK	1	36	10	Front	1:1	0.434	28.88	
831.50	26865	Mid	LTE Band 26 (Cell)	15	24.24	1	QPSK	36	18	10	Front	1:1	0.349	28.81	
831.50	26865	Mid	LTE Band 26 (Cell)	15	25.25	0	QPSK	1	36	10	Bottom	1:1	0.318	30.23	
831.50	26865	Mid	LTE Band 26 (Cell)	15	24.24	1	QPSK	36	18	10	Bottom	1:1	0.256	30.16	
831.50	26865	Mid	LTE Band 26 (Cell)	15	25.25	0	QPSK	1	36	10	Right	1:1	0.064	37.19	
831.50	26865	Mid	LTE Band 26 (Cell)	15	24.24	1	QPSK	36	18	10	Right	1:1	0.050	37.25	
831.50	26865	Mid	LTE Band 26 (Cell)	15	25.25	0	QPSK	1	36	10	Left	1:1	0.226	31.71	
831.50	26865	Mid	LTE Band 26 (Cell)	15	24.24	1	QPSK	36	18	10	Left	1:1	0.182	31.64	
836.50	20525	Mid	LTE Band 5 (Cell)	10	25.15	0	QPSK	1	0	10	Back	1:1	0.559	27.68	27.35
836.50	20525	Mid	LTE Band 5 (Cell)	10	24.16	1	QPSK	25	12	10	Back	1:1	0.480	27.35	
836.50	20525	Mid	LTE Band 5 (Cell)	10	25.15	0	QPSK	1	0	10	Front	1:1	0.435	28.77	
836.50	20525	Mid	LTE Band 5 (Cell)	10	24.16	1	QPSK	25	12	10	Front	1:1	0.375	28.42	
836.50	20525	Mid	LTE Band 5 (Cell)	10	25.15	0	QPSK	1	0	10	Bottom	1:1	0.328	29.99	
836.50	20525	Mid	LTE Band 5 (Cell)	10	24.16	1	QPSK	25	12	10	Bottom	1:1	0.263	29.96	
836.50	20525	Mid	LTE Band 5 (Cell)	10	25.15	0	QPSK	1	0	10	Right	1:1	0.057	37.59	
836.50	20525	Mid	LTE Band 5 (Cell)	10	24.16	1	QPSK	25	12	10	Right	1:1	0.051	37.08	
836.50	20525	Mid	LTE Band 5 (Cell)	10	25.15	0	QPSK	1	0	10	Left	1:1	0.212	31.89	
836.50	20525	Mid	LTE Band 5 (Cell)	10	24.16	1	QPSK	25	12	10	Left	1:1	0.171	31.83	

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

FCC ID: A3LSMN986U	 PART 0 SAR CHAR REPORT 	Approved by: Quality Manager
Test Dates: 04/22/20 – 06/07/20 © 2020 PCTEST	DUT Type: Portable Handset	APPENDIX A: Page 9 of 21

Table A-10
DSI = 3 P_{Limit} Calculations – 4G Hotspot SAR

MEASUREMENT RESULTS															
FREQUENCY		Mode	Bandwidth (MHz)	Conducted Power (dBm)	MPR (dB)	Modulation	RB Size	RB Offset	Spacing (mm)	Side	Duty Cycle	SAR (1g)	P _{Limit}	Minimum P _{Limit}	
MHz	Ch.											(W/kg)	(dBm)	(dBm)	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	19.61	0	QPSK	1	50	10	Back	1:1	0.495	22.66	19.62
1745.00	132322	Mid	LTE Band 66 (AWS)	20	19.66	0	QPSK	50	25	10	Back	1:1	0.527	22.44	
1745.00	132322	Mcd	LTE Band 66 (AWS)	20	19.61	0	QPSK	1	50	10	Front	1:1	0.351	24.16	
1745.00	132322	Mcd	LTE Band 66 (AWS)	20	19.66	0	QPSK	50	25	10	Front	1:1	0.376	23.91	
1720.00	132072	Low	LTE Band 66 (AWS)	20	19.58	0	QPSK	1	0	10	Bottom	1:1	0.784	20.64	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	19.61	0	QPSK	1	50	10	Bottom	1:1	0.914	20.00	
1770.00	132572	High	LTE Band 66 (AWS)	20	19.43	0	QPSK	1	50	10	Bottom	1:1	0.957	19.82	
1720.00	132072	Low	LTE Band 66 (AWS)	20	19.58	0	QPSK	50	0	10	Bottom	1:1	0.855	20.26	
1745.00	132322	Mcd	LTE Band 66 (AWS)	20	19.66	0	QPSK	50	25	10	Bottom	1:1	0.963	19.82	
1770.00	132572	High	LTE Band 66 (AWS)	20	19.64	0	QPSK	50	50	10	Bottom	1:1	0.983	19.71	
1745.00	132322	Mcd	LTE Band 66 (AWS)	20	19.56	0	QPSK	100	0	10	Bottom	1:1	0.946	19.80	
1745.00	132322	Mcd	LTE Band 66 (AWS)	20	19.61	0	QPSK	1	50	10	Right	1:1	0.970	31.16	
1745.00	132322	Mcd	LTE Band 66 (AWS)	20	19.66	0	QPSK	50	25	10	Right	1:1	0.975	30.91	
1745.00	132322	Mcd	LTE Band 66 (AWS)	20	19.61	0	QPSK	1	50	10	Left	1:1	0.962	31.69	
1745.00	132322	Mcd	LTE Band 66 (AWS)	20	19.66	0	QPSK	50	25	10	Left	1:1	0.966	31.46	
1860.00	26140	Low	LTE Band 25 (PCS)	20	19.36	0	QPSK	1	50	10	Back	1:1	0.548	21.97	
1860.00	26140	Low	LTE Band 25 (PCS)	20	19.36	0	QPSK	50	0	10	Back	1:1	0.572	21.79	
1860.00	26140	Low	LTE Band 25 (PCS)	20	19.36	0	QPSK	1	50	10	Front	1:1	0.389	23.46	
1860.00	26140	Low	LTE Band 25 (PCS)	20	19.36	0	QPSK	50	0	10	Front	1:1	0.404	23.30	
1860.00	26140	Low	LTE Band 25 (PCS)	20	19.36	0	QPSK	1	50	10	Bottom	1:1	0.933	19.66	
1882.50	26365	Mcd	LTE Band 25 (PCS)	20	19.15	0	QPSK	1	0	10	Bottom	1:1	0.952	19.38	
1905.00	26590	High	LTE Band 25 (PCS)	20	19.07	0	QPSK	1	50	10	Bottom	1:1	1.050	18.86	
1860.00	26140	Low	LTE Band 25 (PCS)	20	19.36	0	QPSK	50	0	10	Bottom	1:1	0.947	19.60	
1882.50	26365	Mcd	LTE Band 25 (PCS)	20	19.15	0	QPSK	50	0	10	Bottom	1:1	0.982	19.23	
1905.00	26590	High	LTE Band 25 (PCS)	20	19.27	0	QPSK	50	25	10	Bottom	1:1	1.090	18.84	
1905.00	26590	High	LTE Band 25 (PCS)	20	19.18	0	QPSK	100	0	10	Bottom	1:1	1.060	18.93	
1860.00	26140	Low	LTE Band 25 (PCS)	20	19.36	0	QPSK	1	50	10	Right	1:1	0.955	31.96	
1860.00	26140	Low	LTE Band 25 (PCS)	20	19.36	0	QPSK	50	0	10	Right	1:1	0.964	31.30	
1860.00	26140	Low	LTE Band 25 (PCS)	20	19.36	0	QPSK	1	50	10	Left	1:1	0.950	32.37	
1860.00	26140	Low	LTE Band 25 (PCS)	20	19.36	0	QPSK	50	0	10	Left	1:1	0.954	32.04	
2310.00	27710	Mcd	LTE Band 30	10	19.44	0	QPSK	1	0	10	Back	1:1	0.395	23.47	
2310.00	27710	Mcd	LTE Band 30	10	19.58	0	QPSK	25	12	10	Back	1:1	0.387	23.70	
2310.00	27710	Mcd	LTE Band 30	10	19.44	0	QPSK	1	0	10	Front	1:1	0.313	24.48	
2310.00	27710	Mcd	LTE Band 30	10	19.58	0	QPSK	25	12	10	Front	1:1	0.301	24.79	
2310.00	27710	Mcd	LTE Band 30	10	19.44	0	QPSK	1	0	10	Bottom	1:1	0.911	19.84	
2310.00	27710	Mcd	LTE Band 30	10	19.58	0	QPSK	25	12	10	Bottom	1:1	0.893	20.07	
2310.00	27710	Mcd	LTE Band 30	10	19.42	0	QPSK	50	0	10	Bottom	1:1	0.869	20.03	
2310.00	27710	Mcd	LTE Band 30	10	19.44	0	QPSK	1	0	10	Right	1:1	0.970	30.99	
2310.00	27710	Mcd	LTE Band 30	10	19.58	0	QPSK	25	12	10	Right	1:1	0.970	31.13	
2310.00	27710	Mcd	LTE Band 30	10	19.44	0	QPSK	1	0	10	Left	1:1	0.929	34.82	
2310.00	27710	Mcd	LTE Band 30	10	19.58	0	QPSK	25	12	10	Left	1:1	0.927	35.27	
2510.00	20850	Low	LTE Band 7	20	19.60	0	QPSK	1	0	10	Back	1:1	0.259	25.47	
2510.00	20850	Low	LTE Band 7	20	19.61	0	QPSK	50	50	10	Back	1:1	0.254	25.56	
2510.00	20850	Low	LTE Band 7	20	19.60	0	QPSK	1	0	10	Front	1:1	0.203	26.53	
2510.00	20850	Low	LTE Band 7	20	19.61	0	QPSK	50	50	10	Front	1:1	0.204	26.51	
2510.00	20850	Low	LTE Band 7	20	19.60	0	QPSK	1	0	10	Bottom	1:1	0.452	23.05	
2510.00	20850	Low	LTE Band 7	20	19.61	0	QPSK	50	50	10	Bottom	1:1	0.520	22.45	
2510.00	20850	Low	LTE Band 7	20	19.60	0	QPSK	1	0	10	Right	1:1	0.131	28.43	
2510.00	20850	Low	LTE Band 7	20	19.61	0	QPSK	50	50	10	Right	1:1	0.132	28.40	
3603.30	55773	Low-Mid	LTE Band 48	20	24.80	0	QPSK	1	50	10	Back	1:1.58	0.445	26.33	
3603.30	55773	Low-Mid	LTE Band 48	20	23.66	1	QPSK	50	25	10	Back	1:1.58	0.364	26.06	
3603.30	55773	Low-Mid	LTE Band 48	20	24.80	0	QPSK	1	50	10	Front	1:1.58	0.137	31.45	
3603.30	55773	Low-Mid	LTE Band 48	20	23.66	1	QPSK	50	25	10	Front	1:1.58	0.109	31.30	
3560.00	55340	Low	LTE Band 48	20	24.39	0	QPSK	1	50	10	Top	1:1.58	0.623	24.46	
3603.30	55773	Low-Mid	LTE Band 48	20	24.80	0	QPSK	1	50	10	Top	1:1.58	0.587	25.13	
3646.70	56207	Mid-High	LTE Band 48	20	24.49	0	QPSK	1	50	10	Top	1:1.58	0.668	24.26	
3690.00	56640	High	LTE Band 48	20	24.34	0	QPSK	1	50	10	Top	1:1.58	0.732	23.71	
3603.30	55773	Low-Mid	LTE Band 48	20	23.66	1	QPSK	50	25	10	Top	1:1.58	0.477	24.89	
3603.30	55773	Low-Mid	LTE Band 48	20	23.60	1	QPSK	100	0	10	Top	1:1.58	0.478	24.82	
3603.30	55773	Low-Mid	LTE Band 48	20	24.80	0	QPSK	1	50	10	Left	1:1.58	0.165	30.64	
3603.30	55773	Low-Mid	LTE Band 48	20	23.66	1	QPSK	50	25	10	Left	1:1.58	0.130	30.53	
2506.00	39750	Low	LTE Band 41	20	21.40	0	QPSK	1	50	10	Back	1:1.58	0.177	26.93	
2506.00	39750	Low	LTE Band 41	20	21.53	0	QPSK	50	25	10	Back	1:1.58	0.179	27.02	
2506.00	39750	Low	LTE Band 41	20	21.40	0	QPSK	1	50	10	Front	1:1.58	0.143	27.86	
2506.00	39750	Low	LTE Band 41	20	21.53	0	QPSK	50	25	10	Front	1:1.58	0.145	27.93	
2506.00	39750	Low	LTE Band 41	20	21.40	0	QPSK	1	50	10	Bottom	1:1.58	0.358	23.88	
2506.00	39750	Low	LTE Band 41	20	21.53	0	QPSK	50	25	10	Bottom	1:1.58	0.367	23.90	
2506.00	39750	Low	LTE Band 41	20	21.40	0	QPSK	1	50	10	Right	1:1.58	0.098	29.50	
2506.00	39750	Low	LTE Band 41	20	21.53	0	QPSK	25	25	10	Right	1:1.58	0.099	29.59	

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

FCC ID: A3LSMN986U	 PART 0 SAR CHAR REPORT 	Approved by: Quality Manager
Test Dates: 04/22/20 – 06/07/20 © 2020 PCTEST	DUT Type: Portable Handset	APPENDIX A: Page 10 of 21

REV 1.0
06/01/2019

Table A-11
DSI = 3 P_{Limit} Calculations – 5G Hotspot SAR

MEASUREMENT RESULTS															
FREQUENCY		Mode	Bandwidth (MHz)	Conducted Power (dBm)	MPR (dB)	Modulation	RB Size	RB Offset	Spacing (mm)	Side	Duty Cycle	SAR (W/kg)	P _{Limit} (dBm)	Minimum P _{Limit} (dBm)	
MHz	Ch.											(W/kg)	(dBm)		
680.50	136100	Mtd	NR Band n71	20	25.05	0	DFT-s-OFDM QPSK	1	53	10	Back	1:1	0.310	30.14	29.86
680.50	136100	Mtd	NR Band n71	20	24.66	0	DFT-s-OFDM QPSK	50	28	10	Back	1:1	0.302	29.66	
680.50	136100	Mtd	NR Band n71	20	25.05	0	DFT-s-OFDM QPSK	1	53	10	Front	1:1	0.196	32.13	
680.50	136100	Mtd	NR Band n71	20	24.66	0	DFT-s-OFDM QPSK	50	28	10	Front	1:1	0.193	31.80	
680.50	136100	Mtd	NR Band n71	20	25.05	0	DFT-s-OFDM QPSK	1	53	10	Bottom	1:1	0.176	32.59	
680.50	136100	Mtd	NR Band n71	20	24.66	0	DFT-s-OFDM QPSK	50	28	10	Bottom	1:1	0.166	32.46	
680.50	136100	Mtd	NR Band n71	20	25.05	0	DFT-s-OFDM QPSK	1	53	10	Right	1:1	0.136	33.75	
680.50	136100	Mtd	NR Band n71	20	24.66	0	DFT-s-OFDM QPSK	50	28	10	Right	1:1	0.118	33.94	
680.50	136100	Mtd	NR Band n71	20	25.05	0	DFT-s-OFDM QPSK	1	53	10	Left	1:1	0.250	31.07	
680.50	136100	Mtd	NR Band n71	20	24.66	0	DFT-s-OFDM QPSK	50	28	10	Left	1:1	0.226	31.12	
680.50	136100	Mtd	NR Band n71	20	23.41	1.5	CP-OFDM QPSK	1	1	10	Back	1:1	0.215	30.09	
707.50	141500	Mtd	NR Band n12	15	24.78	0	DFT-s-OFDM QPSK	1	77	10	Back	1:1	0.340	29.47	
707.50	141500	Mtd	NR Band n12	15	24.54	0	DFT-s-OFDM QPSK	36	22	10	Back	1:1	0.309	29.64	
707.50	141500	Mtd	NR Band n12	15	24.78	0	DFT-s-OFDM QPSK	1	77	10	Front	1:1	0.211	31.54	
707.50	141500	Mtd	NR Band n12	15	24.54	0	DFT-s-OFDM QPSK	36	22	10	Front	1:1	0.179	32.01	
707.50	141500	Mtd	NR Band n12	15	24.78	0	DFT-s-OFDM QPSK	1	77	10	Bottom	1:1	0.179	32.25	
707.50	141500	Mtd	NR Band n12	15	24.54	0	DFT-s-OFDM QPSK	36	22	10	Bottom	1:1	0.152	32.72	
707.50	141500	Mtd	NR Band n12	15	24.78	0	DFT-s-OFDM QPSK	1	77	10	Right	1:1	0.118	34.06	
707.50	141500	Mtd	NR Band n12	15	24.54	0	DFT-s-OFDM QPSK	36	22	10	Right	1:1	0.132	33.33	
707.50	141500	Mtd	NR Band n12	15	24.78	0	DFT-s-OFDM QPSK	1	77	10	Left	1:1	0.246	30.87	
707.50	141500	Mtd	NR Band n12	15	24.54	0	DFT-s-OFDM QPSK	36	22	10	Left	1:1	0.228	30.96	
707.50	141500	Mtd	NR Band n12	15	22.95	1.5	CP-OFDM QPSK	1	1	10	Back	1:1	0.188	30.21	
836.50	167300	Mtd	NR Band n5	20	25.06	0	DFT-s-OFDM QPSK	1	53	10	Back	1:1	0.570	27.50	
836.50	167300	Mtd	NR Band n5	20	24.67	0	DFT-s-OFDM QPSK	50	28	10	Back	1:1	0.558	27.20	
836.50	167300	Mtd	NR Band n5	20	25.06	0	DFT-s-OFDM QPSK	1	53	10	Front	1:1	0.365	29.44	
836.50	167300	Mtd	NR Band n5	20	24.67	0	DFT-s-OFDM QPSK	50	28	10	Front	1:1	0.358	29.13	
836.50	167300	Mtd	NR Band n5	20	25.06	0	DFT-s-OFDM QPSK	1	53	10	Bottom	1:1	0.328	29.90	
836.50	167300	Mtd	NR Band n5	20	24.67	0	DFT-s-OFDM QPSK	50	28	10	Bottom	1:1	0.313	29.71	
836.50	167300	Mtd	NR Band n5	20	25.06	0	DFT-s-OFDM QPSK	1	53	10	Right	1:1	0.056	37.58	
836.50	167300	Mtd	NR Band n5	20	24.67	0	DFT-s-OFDM QPSK	50	28	10	Right	1:1	0.054	37.35	
836.50	167300	Mtd	NR Band n5	20	25.06	0	DFT-s-OFDM QPSK	1	53	10	Left	1:1	0.186	32.36	
836.50	167300	Mtd	NR Band n5	20	24.67	0	DFT-s-OFDM QPSK	50	28	10	Left	1:1	0.184	32.02	
836.50	167300	Mtd	NR Band n5	20	23.04	1.5	CP-OFDM QPSK	1	1	10	Back	1:1	0.337	27.76	
1720.00	344000	Low	NR Band n66	20	19.79	0	DFT-s-OFDM QPSK	1	1	10	Back	1:1	0.680	21.46	
1720.00	344000	Low	NR Band n66	20	19.70	0	DFT-s-OFDM QPSK	50	0	10	Back	1:1	0.686	21.34	
1720.00	344000	Low	NR Band n66	20	19.79	0	DFT-s-OFDM QPSK	1	1	10	Front	1:1	0.368	24.13	
1720.00	344000	Low	NR Band n66	20	19.70	0	DFT-s-OFDM QPSK	50	0	10	Front	1:1	0.379	23.95	
1720.00	344000	Low	NR Band n66	20	19.79	0	DFT-s-OFDM QPSK	1	1	10	Bottom	1:1	0.619	20.66	
1745.00	349000	Mtd	NR Band n66	20	19.57	0	DFT-s-OFDM QPSK	1	53	10	Bottom	1:1	0.966	19.72	
1770.00	354000	High	NR Band n66	20	19.68	0	DFT-s-OFDM QPSK	1	1	10	Bottom	1:1	1.080	19.35	
1720.00	344000	Low	NR Band n66	20	19.70	0	DFT-s-OFDM QPSK	50	0	10	Bottom	1:1	0.848	20.42	
1745.00	349000	Mtd	NR Band n66	20	19.69	0	DFT-s-OFDM QPSK	50	0	10	Bottom	1:1	0.967	19.84	
1770.00	354000	High	NR Band n66	20	19.61	0	DFT-s-OFDM QPSK	50	0	10	Bottom	1:1	1.040	19.44	
1720.00	344000	Low	NR Band n66	20	19.64	0	DFT-s-OFDM QPSK	100	0	10	Bottom	1:1	0.844	20.38	
1720.00	344000	Low	NR Band n66	20	19.79	0	DFT-s-OFDM QPSK	1	1	10	Right	1:1	0.078	30.87	
1720.00	344000	Low	NR Band n66	20	19.70	0	DFT-s-OFDM QPSK	50	0	10	Right	1:1	0.080	30.67	
1720.00	344000	Low	NR Band n66	20	19.79	0	DFT-s-OFDM QPSK	1	1	10	Left	1:1	0.065	31.66	
1720.00	344000	Low	NR Band n66	20	19.70	0	DFT-s-OFDM QPSK	50	0	10	Left	1:1	0.067	31.44	
1720.00	344000	Low	NR Band n66	20	19.90	0	CP-OFDM QPSK	1	1	10	Bottom	1:1	0.829	20.71	
1905.00	381000	High	NR Band n25	20	18.94	0	DFT-s-OFDM QPSK	1	53	10	Back	1:1	0.550	21.54	
1905.00	381000	High	NR Band n25	20	18.83	0	DFT-s-OFDM QPSK	50	28	10	Back	1:1	0.531	21.58	
1905.00	381000	High	NR Band n25	20	18.94	0	DFT-s-OFDM QPSK	1	53	10	Front	1:1	0.380	23.14	
1905.00	381000	High	NR Band n25	20	18.83	0	DFT-s-OFDM QPSK	50	28	10	Front	1:1	0.365	23.21	
1860.00	372000	Low	NR Band n25	20	18.68	0	DFT-s-OFDM QPSK	1	1	10	Bottom	1:1	0.850	19.39	
1882.50	376500	Mtd	NR Band n25	20	18.52	0	DFT-s-OFDM QPSK	1	53	10	Bottom	1:1	0.998	18.53	
1905.00	381000	High	NR Band n25	20	18.94	0	DFT-s-OFDM QPSK	1	53	10	Bottom	1:1	1.150	18.33	
1860.00	372000	Low	NR Band n25	20	18.55	0	DFT-s-OFDM QPSK	50	0	10	Bottom	1:1	0.899	19.11	
1882.50	376500	Mtd	NR Band n25	20	18.41	0	DFT-s-OFDM QPSK	50	28	10	Bottom	1:1	0.958	18.60	
1905.00	381000	High	NR Band n25	20	18.83	0	DFT-s-OFDM QPSK	50	28	10	Bottom	1:1	1.080	18.50	
1905.00	381000	High	NR Band n25	20	18.60	0	DFT-s-OFDM QPSK	100	0	10	Bottom	1:1	1.080	18.52	
1905.00	381000	High	NR Band n25	20	18.94	0	DFT-s-OFDM QPSK	1	53	10	Right	1:1	0.061	31.86	
1905.00	381000	High	NR Band n25	20	18.83	0	DFT-s-OFDM QPSK	50	28	10	Right	1:1	0.047	32.11	
1905.00	381000	High	NR Band n25	20	18.94	0	DFT-s-OFDM QPSK	1	53	10	Left	1:1	0.046	32.31	
1905.00	381000	High	NR Band n25	20	18.83	0	DFT-s-OFDM QPSK	50	28	10	Left	1:1	0.041	32.70	
1905.00	381000	High	NR Band n25	20	18.75	0	CP-OFDM QPSK	1	1	10	Bottom	1:1	1.070	18.46	
2592.99	518598	Mtd	NR Band n41	100	24.56	0	DFT-s-OFDM QPSK	1	137	10	Back	1:4	0.135	27.24	
2592.99	518598	Mtd	NR Band n41	100	24.32	0	DFT-s-OFDM QPSK	135	69	10	Back	1:4	0.131	27.13	
2592.99	518598	Mtd	NR Band n41	100	24.56	0	DFT-s-OFDM QPSK	1	137	10	Front	1:4	0.152	26.72	
2592.99	518598	Mtd	NR Band n41	100	24.32	0	DFT-s-OFDM QPSK	135	69	10	Front	1:4	0.151	26.51	
2592.99	518598	Mtd	NR Band n41	100	24.56	0	DFT-s-OFDM QPSK	1	137	10	Bottom	1:4	0.406	22.45	
2592.99	518598	Mtd	NR Band n41	100	24.32	0	DFT-s-OFDM QPSK	135	69	10	Bottom	1:4	0.402	22.26	
2592.99	518598	Mtd	NR Band n41	100	24.56	0	DFT-s-OFDM QPSK	1	137	10	Left	1:4	0.025	34.56	
2592.99	518598	Mtd	NR Band n41	100	24.32	0	DFT-s-OFDM QPSK	135	69	10	Left	1:4	0.024	34.50	
2592.99	518598	Mtd	NR Band n41	100	23.03	1.5	CP-OFDM QPSK	1	1	10	Bottom	1:4	0.389	21.11	

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

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Table A-12
DSI = 0 P_{Limit} Calculations – 2G/3G Phablet SAR

MEASUREMENT RESULTS											
FREQUENCY		Mode/Band	Service	Conducted Power [dBm]	Spacing	Side	# of GPRS Slots	Duty Cycle	SAR (10g)	PLimit	Minimum PLimit
MHz	Ch.								(W/kg)	[dBm]	[dBm]
820.10	564	CDMA BC10 (\$90S)	EVDO Rev. 0	25.30	8	Back	N/A	1:1	0.582	31.63	31.63
820.10	564	CDMA BC10 (\$90S)	EVDO Rev. 0	25.30	6	Front	N/A	1:1	0.578	31.66	
820.10	564	CDMA BC10 (\$90S)	EVDO Rev. 0	25.30	12	Bottom	N/A	1:1	0.149	37.55	
820.10	564	CDMA BC10 (\$90S)	EVDO Rev. 0	25.30	0	Right	N/A	1:1	0.312	34.34	
820.10	564	CDMA BC10 (\$90S)	EVDO Rev. 0	25.30	0	Left	N/A	1:1	0.291	34.64	
836.52	384	CDMA BC0 (\$22H)	EVDO Rev. 0	24.80	8	Back	N/A	1:1	0.535	31.50	31.50
836.52	384	CDMA BC0 (\$22H)	EVDO Rev. 0	24.80	6	Front	N/A	1:1	0.515	31.66	
836.52	384	CDMA BC0 (\$22H)	EVDO Rev. 0	24.80	12	Bottom	N/A	1:1	0.136	37.44	
836.52	384	CDMA BC0 (\$22H)	EVDO Rev. 0	24.80	0	Right	N/A	1:1	0.224	35.28	
836.52	384	CDMA BC0 (\$22H)	EVDO Rev. 0	24.80	0	Left	N/A	1:1	0.236	35.05	
1880.00	600	PCS CDMA	EVDO Rev. 0	22.99	8	Back	N/A	1:1	0.810	27.88	26.68
1880.00	600	PCS CDMA	EVDO Rev. 0	22.99	6	Front	N/A	1:1	0.896	27.45	
1880.00	600	PCS CDMA	EVDO Rev. 0	22.99	12	Bottom	N/A	1:1	1.070	26.68	
1880.00	600	PCS CDMA	EVDO Rev. 0	22.99	0	Right	N/A	1:1	0.363	31.37	
1880.00	600	PCS CDMA	EVDO Rev. 0	22.99	0	Left	N/A	1:1	0.281	32.48	
836.60	190	GSM 850	GPRS	29.61	8	Back	3	1:2.76	0.507	32.11	31.88
836.60	190	GSM 850	GPRS	29.61	6	Front	3	1:2.76	0.535	31.88	
836.60	190	GSM 850	GPRS	29.61	12	Bottom	3	1:2.76	0.153	37.31	
836.60	190	GSM 850	GPRS	29.61	0	Right	3	1:2.76	0.273	34.80	
836.60	190	GSM 850	GPRS	29.61	0	Left	3	1:2.76	0.272	34.81	
1880.00	661	GSM 1900	GPRS	27.14	8	Back	3	1:2.76	0.696	28.26	27.71
1880.00	661	GSM 1900	GPRS	27.14	6	Front	3	1:2.76	0.790	27.71	
1880.00	661	GSM 1900	GPRS	27.14	12	Bottom	3	1:2.76	0.709	28.18	
1880.00	661	GSM 1900	GPRS	27.14	0	Right	3	1:2.76	0.324	31.58	
1880.00	661	GSM 1900	GPRS	27.14	0	Left	3	1:2.76	0.246	32.78	
826.40	4132	UMTS 850	RMC	24.77	8	Back	N/A	1:1	0.550	31.35	31.09
826.40	4132	UMTS 850	RMC	24.77	6	Front	N/A	1:1	0.583	31.09	
826.40	4132	UMTS 850	RMC	24.77	12	Bottom	N/A	1:1	0.153	36.90	
826.40	4132	UMTS 850	RMC	24.77	0	Right	N/A	1:1	0.240	34.95	
826.40	4132	UMTS 850	RMC	24.77	0	Left	N/A	1:1	0.246	34.84	
1732.40	1412	UMTS 1750	RMC	23.89	8	Back	N/A	1:1	1.080	27.54	26.97
1732.40	1412	UMTS 1750	RMC	23.89	6	Front	N/A	1:1	1.230	26.97	
1732.40	1412	UMTS 1750	RMC	23.89	12	Bottom	N/A	1:1	0.945	28.12	
1732.40	1412	UMTS 1750	RMC	23.89	0	Right	N/A	1:1	0.378	32.09	
1732.40	1412	UMTS 1750	RMC	23.89	0	Left	N/A	1:1	0.161	35.80	
1880.00	9400	UMTS 1900	RMC	23.34	8	Back	N/A	1:1	0.954	27.52	27.07
1880.00	9400	UMTS 1900	RMC	23.34	6	Front	N/A	1:1	1.060	27.07	
1880.00	9400	UMTS 1900	RMC	23.34	12	Bottom	N/A	1:1	1.030	27.19	
1880.00	9400	UMTS 1900	RMC	23.34	0	Right	N/A	1:1	0.419	31.10	
1880.00	9400	UMTS 1900	RMC	23.34	0	Left	N/A	1:1	0.301	32.53	

For some bands/modes, a lower P_{Limit} was selected as a more conservative evaluation.
Data highlighted in blue was tested and provided by the manufacturer.

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Table A-13
DSI = 1 P_{Limit} Calculations – 2G/3G Phablet SAR

MEASUREMENT RESULTS											
FREQUENCY		Mode/Band	Service	Conducted Power (dBm)	Spacing (mm)	Side	# of GPS Slots	Duty Cycle	SAR (10g) (W/kg)	PLimit (dBm)	Minimum PLimit (dBm)
Mhz	Ch.										
820.10	564	CDMA BC10 (S90S)	EVDO Rev. 0	25.30	0	Back	N/A	1:1	1.559	27.35	27.32
820.10	564	CDMA BC10 (S90S)	EVDO Rev. 0	25.30	0	Front	N/A	1:1	1.570	27.32	
820.10	564	CDMA BC10 (S90S)	EVDO Rev. 0	25.30	0	Bottom	N/A	1:1	0.958	29.47	
820.10	564	CDMA BC10 (S90S)	EVDO Rev. 0	25.30	0	Right	N/A	1:1	0.312	34.34	
820.10	564	CDMA BC10 (S90S)	EVDO Rev. 0	25.30	0	Left	N/A	1:1	0.291	34.64	
836.52	384	CDMA BC0 (S22H)	EVDO Rev. 0	24.80	0	Back	N/A	1:1	1.409	27.29	27.29
836.52	384	CDMA BC0 (S22H)	EVDO Rev. 0	24.80	0	Front	N/A	1:1	1.398	27.32	
836.52	384	CDMA BC0 (S22H)	EVDO Rev. 0	24.80	0	Bottom	N/A	1:1	0.885	29.41	
836.52	384	CDMA BC0 (S22H)	EVDO Rev. 0	24.80	0	Right	N/A	1:1	0.224	35.28	
836.52	384	CDMA BC0 (S22H)	EVDO Rev. 0	24.80	0	Left	N/A	1:1	0.236	35.05	
1851.25	25	PCS CDMA	EVDO Rev. 0	21.80	0	Back	N/A	1:1	2.650	21.55	21.17
1880.00	600	PCS CDMA	EVDO Rev. 0	21.41	0	Back	N/A	1:1	2.550	21.32	
1908.75	1175	PCS CDMA	EVDO Rev. 0	21.78	0	Back	N/A	1:1	2.840	21.23	
1851.25	25	PCS CDMA	EVDO Rev. 0	21.80	0	Front	N/A	1:1	2.360	22.05	
1880.00	600	PCS CDMA	EVDO Rev. 0	21.41	0	Front	N/A	1:1	2.260	21.85	
1908.75	1175	PCS CDMA	EVDO Rev. 0	21.78	0	Front	N/A	1:1	2.500	21.78	
1851.25	25	PCS CDMA	EVDO Rev. 0	21.80	0	Bottom	N/A	1:1	2.740	21.40	
1880.00	600	PCS CDMA	EVDO Rev. 0	21.41	0	Bottom	N/A	1:1	2.380	21.62	
1908.75	1175	PCS CDMA	EVDO Rev. 0	21.78	0	Bottom	N/A	1:1	2.880	21.17	
1880.00	600	PCS CDMA	EVDO Rev. 0	22.99	0	Right	N/A	1:1	0.363	31.37	
1880.00	600	PCS CDMA	EVDO Rev. 0	22.99	0	Left	N/A	1:1	0.281	32.48	29.12
836.60	190	GSM 850	GPRS	29.61	0	Back	3	1:2.76	0.880	29.71	
836.60	190	GSM 850	GPRS	29.61	0	Front	3	1:2.76	1.009	29.12	
836.60	190	GSM 850	GPRS	29.61	0	Bottom	3	1:2.76	0.532	31.90	
836.60	190	GSM 850	GPRS	29.61	0	Right	3	1:2.76	0.273	34.80	
836.60	190	GSM 850	GPRS	29.61	0	Left	3	1:2.76	0.272	34.81	
1850.20	512	GSM 1900	GPRS	23.34	0	Back	4	1:2.076	1.350	22.84	22.31
1880.00	661	GSM 1900	GPRS	23.21	0	Back	4	1:2.076	1.260	23.01	
1909.80	810	GSM 1900	GPRS	23.15	0	Back	4	1:2.076	1.460	22.31	
1880.00	661	GSM 1900	GPRS	23.21	0	Front	4	1:2.076	1.140	23.44	
1880.00	661	GSM 1900	GPRS	23.21	0	Bottom	4	1:2.076	1.120	23.52	
1880.00	661	GSM 1900	GPRS	27.14	0	Right	3	1:2.76	0.324	31.58	
1880.00	661	GSM 1900	GPRS	27.14	0	Left	3	1:2.76	0.246	32.78	26.99
826.40	4132	UMTS 850	RMC	24.77	0	Back	N/A	1:1	1.490	27.02	
826.40	4132	UMTS 850	RMC	24.77	0	Front	N/A	1:1	1.500	26.99	
826.40	4132	UMTS 850	RMC	24.77	0	Bottom	N/A	1:1	0.975	28.86	
826.40	4132	UMTS 850	RMC	24.77	0	Right	N/A	1:1	0.240	34.95	
826.40	4132	UMTS 850	RMC	24.77	0	Left	N/A	1:1	0.246	34.84	
1712.40	1312	UMTS 1750	RMC	20.60	0	Back	N/A	1:1	2.220	21.12	20.05
1732.40	1412	UMTS 1750	RMC	20.58	0	Back	N/A	1:1	2.210	21.12	
1752.60	1513	UMTS 1750	RMC	20.53	0	Back	N/A	1:1	2.140	21.21	
1712.40	1312	UMTS 1750	RMC	20.60	0	Front	N/A	1:1	2.040	21.48	
1732.40	1412	UMTS 1750	RMC	20.58	0	Front	N/A	1:1	2.080	21.38	
1752.60	1513	UMTS 1750	RMC	20.53	0	Front	N/A	1:1	1.970	21.56	
1712.40	1312	UMTS 1750	RMC	20.60	0	Bottom	N/A	1:1	2.840	20.05	
1732.40	1412	UMTS 1750	RMC	20.58	0	Bottom	N/A	1:1	2.750	20.17	
1752.60	1513	UMTS 1750	RMC	20.53	0	Bottom	N/A	1:1	2.490	20.55	
1732.40	1412	UMTS 1750	RMC	23.89	0	Right	N/A	1:1	0.378	32.09	
1732.40	1412	UMTS 1750	RMC	23.89	0	Left	N/A	1:1	0.161	35.80	20.71
1852.40	9262	UMTS 1900	RMC	20.40	0	Back	N/A	1:1	2.280	20.80	
1880.00	9400	UMTS 1900	RMC	20.25	0	Back	N/A	1:1	2.190	20.82	
1907.60	9538	UMTS 1900	RMC	20.50	0	Back	N/A	1:1	2.380	20.71	
1852.40	9262	UMTS 1900	RMC	20.40	0	Front	N/A	1:1	2.030	21.30	
1880.00	9400	UMTS 1900	RMC	20.25	0	Front	N/A	1:1	1.900	21.44	
1907.60	9538	UMTS 1900	RMC	20.50	0	Front	N/A	1:1	2.050	21.36	
1852.40	9262	UMTS 1900	RMC	20.40	0	Bottom	N/A	1:1	2.180	20.99	
1880.00	9400	UMTS 1900	RMC	20.25	0	Bottom	N/A	1:1	1.940	21.35	
1907.60	9538	UMTS 1900	RMC	20.50	0	Bottom	N/A	1:1	2.240	20.98	
1880.00	9400	UMTS 1900	RMC	23.34	0	Right	N/A	1:1	0.419	31.10	20.71
1880.00	9400	UMTS 1900	RMC	23.34	0	Left	N/A	1:1	0.301	32.53	

For some bands/modes, a lower P_{Limit} was selected as a more conservative evaluation.
 Data highlighted in blue was tested and provided by the manufacturer.

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Table A-14
DSI = 0 P_{Limit} Calculations – 4G Phablet SAR

MEASUREMENT RESULTS															
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Modulation	RB Size	RB Offset	Spacing (mm)	Side	Duty Cycle	SAR (10g)	PLimit	Minimum PLimit
MHz	Ch.												(W/kg)	[dBm]	[dBm]
680.50	133297	Mid	LTE Band 71	20	24.72	0	QPSK	1	0	8	Back	1:1	0.324	33.59	33.59
680.50	133297	Mid	LTE Band 71	20	24.72	0	QPSK	1	0	6	Front	1:1	0.303	33.88	
680.50	133297	Mid	LTE Band 71	20	24.72	0	QPSK	1	0	12	Bottom	1:1	0.067	40.44	
680.50	133297	Mid	LTE Band 71	20	24.72	0	QPSK	1	0	0	Right	1:1	0.093	39.01	
680.50	133297	Mid	LTE Band 71	20	24.72	0	QPSK	1	0	0	Left	1:1	0.167	36.47	
707.50	23095	Mid	LTE Band 12	10	24.58	0	QPSK	1	0	8	Back	1:1	0.344	33.19	33.02
707.50	23095	Mid	LTE Band 12	10	24.58	0	QPSK	1	0	6	Front	1:1	0.358	33.02	
707.50	23095	Mid	LTE Band 12	10	24.58	0	QPSK	1	0	12	Bottom	1:1	0.079	39.58	
707.50	23095	Mid	LTE Band 12	10	24.58	0	QPSK	1	0	0	Right	1:1	0.098	38.65	
707.50	23095	Mid	LTE Band 12	10	24.58	0	QPSK	1	0	0	Left	1:1	0.180	36.01	
782.00	23230	Mid	LTE Band 13	10	24.85	0	QPSK	1	0	8	Back	1:1	0.527	31.61	31.36
782.00	23230	Mid	LTE Band 13	10	24.85	0	QPSK	1	0	6	Front	1:1	0.558	31.36	
782.00	23230	Mid	LTE Band 13	10	24.85	0	QPSK	1	0	12	Bottom	1:1	0.140	37.37	
782.00	23230	Mid	LTE Band 13	10	24.85	0	QPSK	1	0	0	Right	1:1	0.263	34.63	
782.00	23230	Mid	LTE Band 13	10	24.85	0	QPSK	1	0	0	Left	1:1	0.248	34.88	
793.00	23330	Mid	LTE Band 14	10	24.61	0	QPSK	1	0	8	Back	1:1	0.508	31.53	31.36
793.00	23330	Mid	LTE Band 14	10	24.61	0	QPSK	1	0	6	Front	1:1	0.528	31.36	
793.00	23330	Mid	LTE Band 14	10	24.61	0	QPSK	1	0	12	Bottom	1:1	0.126	37.59	
793.00	23330	Mid	LTE Band 14	10	24.61	0	QPSK	1	0	0	Right	1:1	0.222	35.13	
793.00	23330	Mid	LTE Band 14	10	24.61	0	QPSK	1	0	0	Left	1:1	0.241	34.77	
831.50	26865	Mid	LTE Band 26 (Cell)	15	24.61	0	QPSK	1	36	8	Back	1:1	0.588	30.90	30.90
831.50	26865	Mid	LTE Band 26 (Cell)	15	24.61	0	QPSK	1	0	6	Front	1:1	0.577	30.98	
831.50	26865	Mid	LTE Band 26 (Cell)	15	24.61	0	QPSK	1	0	12	Bottom	1:1	0.150	36.83	
831.50	26865	Mid	LTE Band 26 (Cell)	15	24.61	0	QPSK	1	0	0	Right	1:1	0.261	34.42	
831.50	26865	Mid	LTE Band 26 (Cell)	15	24.61	0	QPSK	1	0	0	Left	1:1	0.270	34.28	
836.50	20525	Mid	LTE Band 5 (Cell)	10	24.81	0	QPSK	1	0	8	Back	1:1	0.589	31.09	31.09
836.50	20525	Mid	LTE Band 5 (Cell)	10	24.81	0	QPSK	1	0	6	Front	1:1	0.577	31.18	
836.50	20525	Mid	LTE Band 5 (Cell)	10	24.81	0	QPSK	1	0	12	Bottom	1:1	0.142	37.27	
836.50	20525	Mid	LTE Band 5 (Cell)	10	24.81	0	QPSK	1	0	0	Right	1:1	0.261	34.62	
836.50	20525	Mid	LTE Band 5 (Cell)	10	24.81	0	QPSK	1	0	0	Left	1:1	0.246	34.88	

For some bands/modes, a lower P_{Limit} was selected as a more conservative evaluation.
Data highlighted in blue was tested and provided by the manufacturer.

FCC ID: A3LSMN986U	 PCTEST Proud to be part of element	PART 0 SAR CHAR REPORT		Approved by: Quality Manager
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Table A-15
DSI = 0 P_{Limit} Calculations – 4G Phablet SAR

MEASUREMENT RESULTS															
FREQUENCY		Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (10g)	PLimit	Minimum PLimit	
MHz	Ch.											[W/kg]	[dBm]	[dBm]	
1720.00	132072	Low	LTE Band 66 (AWS)	20	23.68	0	QPSK	1	50	8	Back	1:1	1.040	27.49	26.52
1720.00	132072	Low	LTE Band 66 (AWS)	20	22.91	1	QPSK	50	25	8	Back	1:1	0.883	27.43	
1720.00	132072	Low	LTE Band 66 (AWS)	20	23.68	0	QPSK	1	50	6	Front	1:1	1.300	26.52	
1720.00	132072	Low	LTE Band 66 (AWS)	20	22.91	1	QPSK	50	25	6	Front	1:1	1.090	26.52	
1720.00	132072	Low	LTE Band 66 (AWS)	20	23.68	0	QPSK	1	50	12	Bottom	1:1	0.996	27.68	
1720.00	132072	Low	LTE Band 66 (AWS)	20	22.91	1	QPSK	50	25	12	Bottom	1:1	0.824	27.73	
1720.00	132072	Low	LTE Band 66 (AWS)	20	23.68	0	QPSK	1	50	0	Right	1:1	0.470	30.94	
1720.00	132072	Low	LTE Band 66 (AWS)	20	22.91	1	QPSK	50	25	0	Right	1:1	0.391	30.97	
1720.00	132072	Low	LTE Band 66 (AWS)	20	23.68	0	QPSK	1	50	0	Left	1:1	0.309	32.76	
1720.00	132072	Low	LTE Band 66 (AWS)	20	22.91	1	QPSK	50	25	0	Left	1:1	0.256	32.81	
1860.00	26140	Low	LTE Band 25 (PCS)	20	23.75	0	QPSK	1	50	8	Back	1:1	1.180	27.01	26.76
1860.00	26140	Low	LTE Band 25 (PCS)	20	22.82	1	QPSK	50	0	8	Back	1:1	0.967	26.95	
1860.00	26140	Low	LTE Band 25 (PCS)	20	23.75	0	QPSK	1	50	6	Front	1:1	1.230	26.83	
1860.00	26140	Low	LTE Band 25 (PCS)	20	22.82	1	QPSK	50	0	6	Front	1:1	1.010	26.76	
1860.00	26140	Low	LTE Band 25 (PCS)	20	23.75	0	QPSK	1	50	12	Bottom	1:1	0.991	27.77	
1860.00	26140	Low	LTE Band 25 (PCS)	20	22.82	1	QPSK	50	0	12	Bottom	1:1	0.830	27.61	
1860.00	26140	Low	LTE Band 25 (PCS)	20	23.75	0	QPSK	1	50	0	Right	1:1	0.442	31.28	
1860.00	26140	Low	LTE Band 25 (PCS)	20	22.82	1	QPSK	50	0	0	Right	1:1	0.378	31.02	
1860.00	26140	Low	LTE Band 25 (PCS)	20	23.75	0	QPSK	1	50	0	Left	1:1	0.244	33.86	
1860.00	26140	Low	LTE Band 25 (PCS)	20	22.82	1	QPSK	50	0	0	Left	1:1	0.218	33.41	
2310.00	27710	Mid	LTE Band 30	10	23.58	0	QPSK	1	49	8	Back	1:1	0.725	28.96	27.65
2310.00	27710	Mid	LTE Band 30	10	22.63	1	QPSK	25	12	8	Back	1:1	0.617	28.71	
2310.00	27710	Mid	LTE Band 30	10	23.58	0	QPSK	1	49	6	Front	1:1	0.832	28.36	
2310.00	27710	Mid	LTE Band 30	10	22.63	1	QPSK	25	12	6	Front	1:1	0.724	28.01	
2310.00	27710	Mid	LTE Band 30	10	23.58	0	QPSK	1	49	12	Bottom	1:1	0.914	27.95	
2310.00	27710	Mid	LTE Band 30	10	22.63	1	QPSK	25	12	12	Bottom	1:1	0.787	27.65	
2310.00	27710	Mid	LTE Band 30	10	23.58	0	QPSK	1	49	0	Right	1:1	0.385	31.70	
2310.00	27710	Mid	LTE Band 30	10	22.63	1	QPSK	25	12	0	Right	1:1	0.349	31.18	
2310.00	27710	Mid	LTE Band 30	10	23.58	0	QPSK	1	49	0	Left	1:1	0.173	35.18	
2310.00	27710	Mid	LTE Band 30	10	22.63	1	QPSK	25	12	0	Left	1:1	0.140	35.15	
2510.00	20850	Low	LTE Band 7	20	23.17	0	QPSK	1	0	8	Back	1:1	0.471	30.42	26.48
2510.00	20850	Low	LTE Band 7	20	22.22	1	QPSK	50	0	8	Back	1:1	0.386	30.33	
2510.00	20850	Low	LTE Band 7	20	23.17	0	QPSK	1	0	6	Front	1:1	0.491	30.24	
2510.00	20850	Low	LTE Band 7	20	22.22	1	QPSK	50	0	6	Front	1:1	0.408	30.09	
2510.00	20850	Low	LTE Band 7	20	23.17	0	QPSK	1	0	12	Bottom	1:1	0.413	30.99	
2510.00	20850	Low	LTE Band 7	20	22.22	1	QPSK	50	0	12	Bottom	1:1	0.356	30.68	
2510.00	20850	Low	LTE Band 7	20	23.17	0	QPSK	1	0	0	Right	1:1	1.150	26.54	
2510.00	20850	Low	LTE Band 7	20	22.22	1	QPSK	50	0	0	Right	1:1	0.938	26.48	
3603.30	55773	Low-Mid	LTE Band 48	20	23.95	0	QPSK	1	0	0	Back	1:1.58	1.360	24.61	21.98
3603.30	55773	Low-Mid	LTE Band 48	20	23.95	0	QPSK	1	0	0	Front	1:1.58	1.970	23.00	
3603.30	55773	Low-Mid	LTE Band 48	20	23.95	0	QPSK	1	0	0	Top	1:1.58	2.259	22.40	
3603.30	55773	Low-Mid	LTE Band 48	20	23.95	0	QPSK	1	0	0	Left	1:1.58	2.490	21.98	
2506.00	39750	Low	LTE Band 41	20	24.11	0	QPSK	1	99	8	Back	1:1.58	0.214	32.80	28.80
2506.00	39750	Low	LTE Band 41	20	23.23	1	QPSK	50	25	8	Back	1:1.58	0.174	32.82	
2506.00	39750	Low	LTE Band 41	20	24.11	0	QPSK	1	99	6	Front	1:1.58	0.264	31.89	
2506.00	39750	Low	LTE Band 41	20	23.23	1	QPSK	50	25	6	Front	1:1.58	0.219	31.82	
2506.00	39750	Low	LTE Band 41	20	24.11	0	QPSK	1	99	12	Bottom	1:1.58	0.217	32.74	
2506.00	39750	Low	LTE Band 41	20	23.23	1	QPSK	50	25	12	Bottom	1:1.58	0.192	32.39	
2506.00	39750	Low	LTE Band 41	20	24.11	0	QPSK	1	99	0	Right	1:1.58	0.526	28.89	
2506.00	39750	Low	LTE Band 41	20	23.23	1	QPSK	50	25	0	Right	1:1.58	0.439	28.80	

For some bands/modes, a lower P_{Limit} was selected as a more conservative evaluation.
Data highlighted in blue was tested and provided by the manufacturer.

FCC ID: A3LSMN986U	 PART 0 SAR CHAR REPORT 	Approved by: Quality Manager
Test Dates: 04/22/20 – 06/07/20	DUT Type: Portable Handset	APPENDIX A: Page 15 of 21

Table A-16
DSI = 1 P_{Limit} Calculations – 4G Phablet SAR

MEASUREMENT RESULTS															
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Modulation	RB Size	RB Offset	Spacing (mm)	Side	Duty Cycle	SAR (10g)	PLimit	Minimum PLimit
MHz	Ch.												(W/kg)	[dBm]	[dBm]
680.50	133297	Mid	LTE Band 71	20	24.72	0	QPSK	1	0	0	Back	1:1	1.519	26.88	26.71
680.50	133297	Mid	LTE Band 71	20	24.72	0	QPSK	1	0	0	Front	1:1	1.580	26.71	
680.50	133297	Mid	LTE Band 71	20	24.72	0	QPSK	1	0	0	Bottom	1:1	1.070	28.41	
680.50	133297	Mid	LTE Band 71	20	24.72	0	QPSK	1	0	0	Right	1:1	0.093	39.01	
680.50	133297	Mid	LTE Band 71	20	24.72	0	QPSK	1	0	0	Left	1:1	0.167	36.47	
707.50	23095	Mid	LTE Band 12	10	24.58	0	QPSK	1	0	0	Back	1:1	1.149	27.96	27.35
707.50	23095	Mid	LTE Band 12	10	24.58	0	QPSK	1	0	0	Front	1:1	1.320	27.35	
707.50	23095	Mid	LTE Band 12	10	24.58	0	QPSK	1	0	0	Bottom	1:1	0.791	29.58	
707.50	23095	Mid	LTE Band 12	10	24.58	0	QPSK	1	0	0	Right	1:1	0.098	38.65	
707.50	23095	Mid	LTE Band 12	10	24.58	0	QPSK	1	0	0	Left	1:1	0.180	36.01	
782.00	23230	Mid	LTE Band 13	10	24.85	0	QPSK	1	0	0	Back	1:1	1.210	28.00	28.00
782.00	23230	Mid	LTE Band 13	10	24.85	0	QPSK	1	0	0	Front	1:1	1.200	28.04	
782.00	23230	Mid	LTE Band 13	10	24.85	0	QPSK	1	0	0	Bottom	1:1	0.630	30.84	
782.00	23230	Mid	LTE Band 13	10	24.85	0	QPSK	1	0	0	Right	1:1	0.263	34.63	
782.00	23230	Mid	LTE Band 13	10	24.85	0	QPSK	1	0	0	Left	1:1	0.248	34.88	
793.00	23330	Mid	LTE Band 14	10	24.61	0	QPSK	1	0	0	Back	1:1	1.169	27.91	27.62
793.00	23330	Mid	LTE Band 14	10	24.61	0	QPSK	1	0	0	Front	1:1	1.250	27.62	
793.00	23330	Mid	LTE Band 14	10	24.61	0	QPSK	1	0	0	Bottom	1:1	0.712	30.06	
793.00	23330	Mid	LTE Band 14	10	24.61	0	QPSK	1	0	0	Right	1:1	0.222	35.13	
793.00	23330	Mid	LTE Band 14	10	24.61	0	QPSK	1	0	0	Left	1:1	0.241	34.77	
831.50	26865	Mid	LTE Band 26 (Cell)	15	24.61	0	QPSK	1	0	0	Back	1:1	1.480	26.89	26.55
831.50	26865	Mid	LTE Band 26 (Cell)	15	24.61	0	QPSK	1	0	0	Front	1:1	1.600	26.55	
831.50	26865	Mid	LTE Band 26 (Cell)	15	24.61	0	QPSK	1	0	0	Bottom	1:1	1.000	28.59	
831.50	26865	Mid	LTE Band 26 (Cell)	15	24.61	0	QPSK	1	0	0	Right	1:1	0.261	34.42	
831.50	26865	Mid	LTE Band 26 (Cell)	15	24.61	0	QPSK	1	0	0	Left	1:1	0.270	34.28	
836.50	20525	Mid	LTE Band 5 (Cell)	10	24.81	0	QPSK	1	0	0	Back	1:1	1.419	27.27	27.15
836.50	20525	Mid	LTE Band 5 (Cell)	10	24.81	0	QPSK	1	0	0	Front	1:1	1.460	27.15	
836.50	20525	Mid	LTE Band 5 (Cell)	10	24.81	0	QPSK	1	0	0	Bottom	1:1	1.029	28.67	
836.50	20525	Mid	LTE Band 5 (Cell)	10	24.81	0	QPSK	1	0	0	Right	1:1	0.261	34.62	
836.50	20525	Mid	LTE Band 5 (Cell)	10	24.81	0	QPSK	1	0	0	Left	1:1	0.246	34.88	

For some bands/modes, a lower P_{Limit} was selected as a more conservative evaluation.
Data highlighted in blue was tested and provided by the manufacturer.

FCC ID: A3LSMN986U		PART 0 SAR CHAR REPORT		Approved by: Quality Manager
Test Dates: 04/22/20 – 06/07/20	DUT Type: Portable Handset			APPENDIX A: Page 16 of 21

Table A-17
DSI = 1 P_{Limit} Calculations – 4G Phablet SAR

MEASUREMENT RESULTS															
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Modulation	RB Size	RB Offset	Spacing (mm)	Side	Duty Cycle	SAR (10g)	PLimit	Minimum PLimit [dBm]
MHz	Ch.												(W/kg)	[dBm]	
1720.00	132072	Low	LTE Band 66 (AWS)	20	20.49	0	QPSK	1	50	0	Back	1:1	2.630	20.27	19.73
1745.00	132322	Mid	LTE Band 66 (AWS)	20	20.08	0	QPSK	1	0	0	Back	1:1	2.500	20.08	
1770.00	132572	High	LTE Band 66 (AWS)	20	20.26	0	QPSK	1	0	0	Back	1:1	2.790	19.78	
1720.00	132072	Low	LTE Band 66 (AWS)	20	20.49	0	QPSK	50	25	0	Back	1:1	2.810	19.98	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	20.38	0	QPSK	50	25	0	Back	1:1	2.690	20.06	
1770.00	132572	High	LTE Band 66 (AWS)	20	20.33	0	QPSK	50	25	0	Back	1:1	2.860	19.75	
1720.00	132072	Low	LTE Band 66 (AWS)	20	20.43	0	QPSK	100	0	0	Back	1:1	2.760	20.00	
1720.00	132072	Low	LTE Band 66 (AWS)	20	20.49	0	QPSK	1	50	0	Front	1:1	2.160	21.12	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	20.08	0	QPSK	1	0	0	Front	1:1	2.110	20.82	
1770.00	132572	High	LTE Band 66 (AWS)	20	20.26	0	QPSK	1	0	0	Front	1:1	2.360	20.51	
1720.00	132072	Low	LTE Band 66 (AWS)	20	20.49	0	QPSK	50	25	0	Front	1:1	2.290	20.87	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	20.38	0	QPSK	50	25	0	Front	1:1	2.370	20.61	
1770.00	132572	High	LTE Band 66 (AWS)	20	20.33	0	QPSK	50	25	0	Front	1:1	2.390	20.53	
1720.00	132072	Low	LTE Band 66 (AWS)	20	20.43	0	QPSK	100	0	0	Front	1:1	2.240	20.91	
1720.00	132072	Low	LTE Band 66 (AWS)	20	20.49	0	QPSK	1	50	0	Bottom	1:1	2.850	19.92	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	20.08	0	QPSK	1	0	0	Bottom	1:1	2.580	19.94	
1770.00	132572	High	LTE Band 66 (AWS)	20	20.26	0	QPSK	1	0	0	Bottom	1:1	2.690	19.94	
1720.00	132072	Low	LTE Band 66 (AWS)	20	20.49	0	QPSK	50	25	0	Bottom	1:1	2.840	19.94	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	20.38	0	QPSK	50	25	0	Bottom	1:1	2.710	20.03	
1770.00	132572	High	LTE Band 66 (AWS)	20	20.33	0	QPSK	50	25	0	Bottom	1:1	2.840	19.78	
1720.00	132072	Low	LTE Band 66 (AWS)	20	20.43	0	QPSK	100	0	0	Bottom	1:1	2.940	19.73	
1720.00	132072	Low	LTE Band 66 (AWS)	20	23.68	0	QPSK	1	50	0	Right	1:1	0.470	30.94	
1720.00	132072	Low	LTE Band 66 (AWS)	20	22.91	1	QPSK	50	25	0	Right	1:1	0.391	30.97	
1720.00	132072	Low	LTE Band 66 (AWS)	20	23.68	0	QPSK	1	50	0	Left	1:1	0.309	32.76	
1720.00	132072	Low	LTE Band 66 (AWS)	20	22.91	1	QPSK	50	25	0	Left	1:1	0.256	32.81	
1860.00	26140	Low	LTE Band 25 (PCS)	20	21.80	0	QPSK	1	0	0	Back	1:1	2.490	21.82	21.02
1882.50	26365	Mid	LTE Band 25 (PCS)	20	21.68	0	QPSK	1	50	0	Back	1:1	2.400	21.86	
1905.00	26590	High	LTE Band 25 (PCS)	20	21.76	0	QPSK	1	50	0	Back	1:1	2.380	21.97	
1860.00	26140	Low	LTE Band 25 (PCS)	20	21.90	0	QPSK	50	25	0	Back	1:1	2.540	21.83	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	21.84	0	QPSK	50	50	0	Back	1:1	2.480	21.87	
1905.00	26590	High	LTE Band 25 (PCS)	20	21.88	0	QPSK	50	25	0	Back	1:1	2.540	21.81	
1905.00	26590	High	LTE Band 25 (PCS)	20	21.75	0	QPSK	100	0	0	Back	1:1	2.480	21.78	
1860.00	26140	Low	LTE Band 25 (PCS)	20	21.80	0	QPSK	1	0	0	Front	1:1	2.320	22.12	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	21.68	0	QPSK	1	50	0	Front	1:1	2.140	22.36	
1905.00	26590	High	LTE Band 25 (PCS)	20	21.76	0	QPSK	1	50	0	Front	1:1	2.100	22.52	
1860.00	26140	Low	LTE Band 25 (PCS)	20	21.90	0	QPSK	50	25	0	Front	1:1	2.340	22.19	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	21.84	0	QPSK	50	50	0	Front	1:1	2.140	22.52	
1905.00	26590	High	LTE Band 25 (PCS)	20	21.88	0	QPSK	50	25	0	Front	1:1	2.180	22.47	
1905.00	26590	High	LTE Band 25 (PCS)	20	21.75	0	QPSK	100	0	0	Front	1:1	2.120	22.47	
1860.00	26140	Low	LTE Band 25 (PCS)	20	21.80	0	QPSK	1	0	0	Bottom	1:1	2.800	21.31	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	21.68	0	QPSK	1	50	0	Bottom	1:1	2.800	21.19	
1905.00	26590	High	LTE Band 25 (PCS)	20	21.76	0	QPSK	1	50	0	Bottom	1:1	2.830	21.22	
1860.00	26140	Low	LTE Band 25 (PCS)	20	21.90	0	QPSK	50	25	0	Bottom	1:1	2.820	21.38	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	21.84	0	QPSK	50	50	0	Bottom	1:1	2.930	21.15	
1905.00	26590	High	LTE Band 25 (PCS)	20	21.88	0	QPSK	50	25	0	Bottom	1:1	3.050	21.02	
1905.00	26590	High	LTE Band 25 (PCS)	20	21.75	0	QPSK	100	0	0	Bottom	1:1	2.950	21.03	
1860.00	26140	Low	LTE Band 25 (PCS)	20	23.75	0	QPSK	1	50	0	Right	1:1	0.442	31.28	
1860.00	26140	Low	LTE Band 25 (PCS)	20	22.82	1	QPSK	50	0	0	Right	1:1	0.378	31.02	
1860.00	26140	Low	LTE Band 25 (PCS)	20	23.75	0	QPSK	1	50	0	Left	1:1	0.244	33.86	
1860.00	26140	Low	LTE Band 25 (PCS)	20	22.82	1	QPSK	50	0	0	Left	1:1	0.218	33.41	

For some bands/modes, a lower P_{Limit} was selected as a more conservative evaluation.
Data highlighted in blue was tested and provided by the manufacturer.

FCC ID: A3LSMN986U	 PART 0 SAR CHAR REPORT 	Approved by: Quality Manager
Test Dates: 04/22/20 – 06/07/20	DUT Type: Portable Handset	APPENDIX A: Page 17 of 21

Table A-18
DSI = 1 P_{Limit} Calculations – 4G Phablet SAR

MEASUREMENT RESULTS															
FREQUENCY		Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Modulation	RB Size	RB Offset	Spacing (m.m)	Side	Duty Cycle	SAR (10g)	PLimit	Minimum PLimit [dBm]	
MHz	Ch.											(W/kg)	[dBm]		
2310.00	27710	Mid	LTE Band 30	10	23.58	0	QPSK	1	49	0	Back	1:1	2.640	23.34	23.15
2310.00	27710	Mid	LTE Band 30	10	22.63	1	QPSK	25	12	0	Back	1:1	2.220	23.15	
2310.00	27710	Mid	LTE Band 30	10	22.68	1	QPSK	50	0	0	Back	1:1	2.200	23.24	
2310.00	27710	Mid	LTE Band 30	10	23.58	0	QPSK	1	49	0	Front	1:1	1.970	24.61	
2310.00	27710	Mid	LTE Band 30	10	22.63	1	QPSK	25	12	0	Front	1:1	1.700	24.30	
2310.00	27710	Mid	LTE Band 30	10	22.68	1	QPSK	50	0	0	Front	1:1	1.720	24.30	
2310.00	27710	Mid	LTE Band 30	10	23.58	0	QPSK	1	49	0	Bottom	1:1	2.300	23.94	
2310.00	27710	Mid	LTE Band 30	10	22.63	1	QPSK	25	12	0	Bottom	1:1	2.080	23.43	
2310.00	27710	Mid	LTE Band 30	10	22.68	1	QPSK	50	0	0	Bottom	1:1	2.030	23.58	
2310.00	27710	Mid	LTE Band 30	10	23.58	0	QPSK	1	49	0	Right	1:1	0.385	31.70	
2310.00	27710	Mid	LTE Band 30	10	22.63	1	QPSK	25	12	0	Right	1:1	0.349	31.18	21.39
2310.00	27710	Mid	LTE Band 30	10	23.58	0	QPSK	1	49	0	Left	1:1	0.173	35.18	
2310.00	27710	Mid	LTE Band 30	10	22.63	1	QPSK	25	12	0	Left	1:1	0.140	35.15	
2510.00	20850	Low	LTE Band 7	20	19.60	0	QPSK	1	0	0	Back	1:1	1.380	22.18	
2510.00	20850	Low	LTE Band 7	20	19.61	0	QPSK	50	50	0	Back	1:1	1.370	22.22	
2510.00	20850	Low	LTE Band 7	20	19.60	0	QPSK	1	0	0	Front	1:1	1.190	22.82	
2510.00	20850	Low	LTE Band 7	20	19.61	0	QPSK	50	50	0	Front	1:1	1.190	22.83	
2510.00	20850	Low	LTE Band 7	20	19.60	0	QPSK	1	0	0	Bottom	1:1	1.610	21.51	
2510.00	20850	Low	LTE Band 7	20	19.61	0	QPSK	50	50	0	Bottom	1:1	1.660	21.39	
2535.00	21100	Mid	LTE Band 7	20	19.47	0	QPSK	50	0	0	Bottom	1:1	1.420	21.93	
21350.00	21350	High	LTE Band 7	20	19.33	0	QPSK	50	25	0	Bottom	1:1	1.450	21.70	21.98
2510.00	20850	Low	LTE Band 7	20	23.17	0	QPSK	1	0	0	Right	1:1	1.150	26.54	
2510.00	20850	Low	LTE Band 7	20	22.22	1	QPSK	50	0	0	Right	1:1	0.938	26.48	
3603.30	55773	Low-Mid	LTE Band 48	20	23.95	0	QPSK	1	0	0	Back	1:1.58	1.360	24.61	
3603.30	55773	Low-Mid	LTE Band 48	20	23.95	0	QPSK	1	0	0	Front	1:1.58	1.970	23.00	
3603.30	55773	Low-Mid	LTE Band 48	20	23.95	0	QPSK	1	0	0	Top	1:1.58	2.259	22.40	
3603.30	55773	Low-Mid	LTE Band 48	20	23.95	0	QPSK	1	0	0	Left	1:1.58	2.490	21.98	
2506.00	39750	Low	LTE Band 41	20	22.41	0	QPSK	1	50	0	Back	1:1.58	1.290	23.30	
2549.50	40185	Low-Mid	LTE Band 41	20	22.35	0	QPSK	1	50	0	Back	1:1.58	1.290	23.24	
2593.00	40620	Mid	LTE Band 41	20	22.44	0	QPSK	1	50	0	Back	1:1.58	1.360	23.10	
2636.50	41055	Mid-High	LTE Band 41	20	22.40	0	QPSK	1	50	0	Back	1:1.58	1.370	23.03	21.02
2680.00	41490	High	LTE Band 41	20	22.22	0	QPSK	1	50	0	Back	1:1.58	1.370	22.85	
2506.00	39750	Low	LTE Band 41	20	22.48	0	QPSK	50	25	0	Back	1:1.58	1.350	23.17	
2549.50	40185	Low-Mid	LTE Band 41	20	22.42	0	QPSK	50	25	0	Back	1:1.58	1.320	23.21	
2593.00	40620	Mid	LTE Band 41	20	22.51	0	QPSK	50	25	0	Back	1:1.58	1.370	23.14	
2636.50	41055	Mid-High	LTE Band 41	20	22.41	0	QPSK	50	25	0	Back	1:1.58	1.390	22.97	
2680.00	41490	High	LTE Band 41	20	22.35	0	QPSK	50	25	0	Back	1:1.58	1.440	22.76	
2506.00	39750	Low	LTE Band 41	20	22.40	0	QPSK	100	0	0	Back	1:1.58	1.320	23.19	
2593.00	40620	Mid	LTE Band 41	20	22.44	0	QPSK	1	50	0	Front	1:1.58	1.230	23.53	
2593.00	40620	Mid	LTE Band 41	20	22.51	0	QPSK	50	25	0	Front	1:1.58	1.260	23.50	
2506.00	39750	Low	LTE Band 41	20	22.41	0	QPSK	1	50	0	Bottom	1:1.58	1.850	21.73	21.02
2549.50	40185	Low-Mid	LTE Band 41	20	22.35	0	QPSK	1	50	0	Bottom	1:1.58	1.940	21.47	
2593.00	40620	Mid	LTE Band 41	20	22.44	0	QPSK	1	50	0	Bottom	1:1.58	2.000	21.42	
2636.50	41055	Mid-High	LTE Band 41	20	22.40	0	QPSK	1	50	0	Bottom	1:1.58	2.090	21.19	
2680.00	41490	High	LTE Band 41	20	22.22	0	QPSK	1	50	0	Bottom	1:1.58	2.030	21.14	
2506.00	39750	Low	LTE Band 41	20	22.48	0	QPSK	50	25	0	Bottom	1:1.58	1.950	21.57	
2549.50	40185	Low-Mid	LTE Band 41	20	22.42	0	QPSK	50	25	0	Bottom	1:1.58	2.050	21.30	
2593.00	40620	Mid	LTE Band 41	20	22.51	0	QPSK	50	25	0	Bottom	1:1.58	2.090	21.30	
2636.50	41055	Mid-High	LTE Band 41	20	22.41	0	QPSK	50	25	0	Bottom	1:1.58	2.180	21.02	
2680.00	41490	High	LTE Band 41	20	22.35	0	QPSK	50	25	0	Bottom	1:1.58	2.120	21.08	
2506.00	39750	Low	LTE Band 41	20	22.40	0	QPSK	100	0	0	Bottom	1:1.58	1.930	21.54	
2506.00	39750	Low	LTE Band 41	20	24.11	0	QPSK	1	99	0	Right	1:1.58	0.526	28.89	
2506.00	39750	Low	LTE Band 41	20	23.23	1	QPSK	50	25	0	Right	1:1.58	0.439	28.80	

For some bands/modes, a lower P_{Limit} was selected as a more conservative evaluation.
Data highlighted in blue was tested and provided by the manufacturer.

FCC ID: A3LSMN986U	 PART 0 SAR CHAR REPORT 	Approved by: Quality Manager
Test Dates: 04/22/20 – 06/07/20	DUT Type: Portable Handset	APPENDIX A: Page 18 of 21

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REV 1.0
06/01/2019

Table A-19
DSI = 0 P_{Limit} Calculations – 5G Phablet SAR

MEASUREMENT RESULTS															
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Modulation	RB Size	RB Offset	Spacing (mm)	Side	Duty Cycle	SAR (10g)	PLimit	Minimum PLimit
MHz	Ch.												(W/kg)	[dBm]	[dBm]
680.50	136100	Mid	NR Band n71	20	24.35	0	DFT-s-OFDM QPSK	1	0	8	Back	1:1	0.222	34.87	34.87
680.50	136100	Mid	NR Band n71	20	24.35	0	DFT-s-OFDM QPSK	1	0	6	Front	1:1	0.220	34.91	
680.50	136100	Mid	NR Band n71	20	24.35	0	DFT-s-OFDM QPSK	1	0	12	Bottom	1:1	0.040	42.31	
680.50	136100	Mid	NR Band n71	20	24.35	0	DFT-s-OFDM QPSK	1	0	0	Right	1:1	0.066	40.13	
680.50	136100	Mid	NR Band n71	20	24.35	0	DFT-s-OFDM QPSK	1	0	0	Left	1:1	0.104	38.16	
707.50	141500	Mid	NR Band n12	15	24.21	0	DFT-s-OFDM QPSK	1	77	8	Back	1:1	0.218	34.80	34.73
707.50	141500	Mid	NR Band n12	15	24.21	0	DFT-s-OFDM QPSK	1	77	6	Front	1:1	0.222	34.73	
707.50	141500	Mid	NR Band n12	15	24.21	0	DFT-s-OFDM QPSK	1	77	12	Bottom	1:1	0.048	41.38	
707.50	141500	Mid	NR Band n12	15	24.21	0	DFT-s-OFDM QPSK	1	77	0	Right	1:1	0.060	40.41	
707.50	141500	Mid	NR Band n12	15	24.21	0	DFT-s-OFDM QPSK	1	77	0	Left	1:1	0.105	37.98	
836.50	167300	Mid	NR Band n5	20	24.60	0	DFT-s-OFDM QPSK	1	1	8	Back	1:1	0.439	32.15	32.02
836.50	167300	Mid	NR Band n5	20	24.60	0	DFT-s-OFDM QPSK	1	1	6	Front	1:1	0.453	32.02	
836.50	167300	Mid	NR Band n5	20	24.60	0	DFT-s-OFDM QPSK	1	1	12	Bottom	1:1	0.125	37.61	
836.50	167300	Mid	NR Band n5	20	24.60	0	DFT-s-OFDM QPSK	1	1	0	Right	1:1	0.149	36.85	
836.50	167300	Mid	NR Band n5	20	24.60	0	DFT-s-OFDM QPSK	1	1	0	Left	1:1	0.232	34.92	
1720.00	344000	Low	NR Band n66	20	23.93	0	DFT-s-OFDM QPSK	1	53	8	Back	1:1	1.280	26.84	26.25
1720.00	344000	Low	NR Band n66	20	23.67	0	DFT-s-OFDM QPSK	50	28	8	Back	1:1	1.220	26.79	
1720.00	344000	Low	NR Band n66	20	23.93	0	DFT-s-OFDM QPSK	1	53	6	Front	1:1	1.400	26.45	
1720.00	344000	Low	NR Band n66	20	23.67	0	DFT-s-OFDM QPSK	50	28	6	Front	1:1	1.380	26.25	
1720.00	344000	Low	NR Band n66	20	23.93	0	DFT-s-OFDM QPSK	1	53	12	Bottom	1:1	0.946	28.15	
1720.00	344000	Low	NR Band n66	20	23.67	0	DFT-s-OFDM QPSK	50	28	12	Bottom	1:1	0.963	27.81	
1720.00	344000	Low	NR Band n66	20	23.93	0	DFT-s-OFDM QPSK	1	53	0	Right	1:1	0.509	30.84	
1720.00	344000	Low	NR Band n66	20	23.67	0	DFT-s-OFDM QPSK	50	28	0	Right	1:1	0.491	30.74	
1720.00	344000	Low	NR Band n66	20	23.93	0	DFT-s-OFDM QPSK	1	53	0	Left	1:1	0.311	32.98	
1720.00	344000	Low	NR Band n66	20	23.67	0	DFT-s-OFDM QPSK	50	28	0	Left	1:1	0.305	32.81	
1905.00	381000	High	NR Band n25	20	23.91	0	DFT-s-OFDM QPSK	1	53	8	Back	1:1	1.070	27.60	26.28
1905.00	381000	High	NR Band n25	20	23.91	0	DFT-s-OFDM QPSK	50	28	8	Back	1:1	1.080	27.56	
1905.00	381000	High	NR Band n25	20	23.91	0	DFT-s-OFDM QPSK	1	53	6	Front	1:1	1.220	27.03	
1905.00	381000	High	NR Band n25	20	23.91	0	DFT-s-OFDM QPSK	50	28	6	Front	1:1	1.180	27.17	
1905.00	381000	High	NR Band n25	20	23.91	0	DFT-s-OFDM QPSK	1	53	12	Bottom	1:1	1.450	26.28	
1905.00	381000	High	NR Band n25	20	23.91	0	DFT-s-OFDM QPSK	50	28	12	Bottom	1:1	1.370	26.52	
1905.00	381000	High	NR Band n25	20	23.91	0	DFT-s-OFDM QPSK	1	53	0	Right	1:1	0.582	30.24	
1905.00	381000	High	NR Band n25	20	23.91	0	DFT-s-OFDM QPSK	50	28	0	Right	1:1	0.545	30.53	
1905.00	381000	High	NR Band n25	20	23.91	0	DFT-s-OFDM QPSK	1	53	0	Left	1:1	0.350	32.45	
1905.00	381000	High	NR Band n25	20	23.91	0	DFT-s-OFDM QPSK	50	28	0	Left	1:1	0.323	32.80	
2592.99	518598	Mid	NR Band n41	100	24.45	0	DFT-s-OFDM QPSK	1	137	0	Back	1:4	0.071	33.90	27.32
2592.99	518598	Mid	NR Band n41	100	24.45	0	DFT-s-OFDM QPSK	1	137	0	Front	1:4	0.124	31.47	
2592.99	518598	Mid	NR Band n41	100	24.45	0	DFT-s-OFDM QPSK	1	137	0	Top	1:4	0.323	27.32	
2592.99	518598	Mid	NR Band n41	100	24.45	0	DFT-s-OFDM QPSK	1	137	0	Left	1:4	0.013	41.27	

For some bands/modes, a lower P_{Limit} was selected as a more conservative evaluation.
Data highlighted in blue was tested and provided by the manufacturer.

FCC ID: A3LSMN986U	 Proud to be part of 	PART 0 SAR CHAR REPORT		Approved by: Quality Manager
Test Dates: 04/22/20 – 06/07/20	DUT Type: Portable Handset	APPENDIX A: Page 19 of 21		

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REV 1.0
06/01/2019

Table A-20
DSI = 1 P_{Limit} Calculations – 5G Phablet SAR

MEASUREMENT RESULTS															
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Modulation	RB Size	RB Offset	Spacing (mm)	Side	Duty Cycle	SAR (10g)	PLimit	Minimum PLimit
MHz	Ch.												(W/kg)	[dBm]	[dBm]
680.50	136100	Mid	NR Band n71	20	24.35	0	DFT-s-OFDM QPSK	1	0	0	Back	1:1	0.957	28.52	28.52
680.50	136100	Mid	NR Band n71	20	24.35	0	DFT-s-OFDM QPSK	1	0	0	Front	1:1	0.795	29.33	
680.50	136100	Mid	NR Band n71	20	24.35	0	DFT-s-OFDM QPSK	1	0	0	Bottom	1:1	0.579	30.70	
680.50	136100	Mid	NR Band n71	20	24.35	0	DFT-s-OFDM QPSK	1	0	0	Right	1:1	0.066	40.13	
680.50	136100	Mid	NR Band n71	20	24.35	0	DFT-s-OFDM QPSK	1	0	0	Left	1:1	0.104	38.16	
707.50	141500	Mid	NR Band n12	15	24.21	0	DFT-s-OFDM QPSK	1	0	0	Back	1:1	1.460	26.55	26.55
707.50	141500	Mid	NR Band n12	15	24.21	0	DFT-s-OFDM QPSK	1	0	0	Front	1:1	1.420	26.67	
707.50	141500	Mid	NR Band n12	15	24.21	0	DFT-s-OFDM QPSK	1	0	0	Bottom	1:1	0.873	28.78	
707.50	141500	Mid	NR Band n12	15	24.21	0	DFT-s-OFDM QPSK	1	77	0	Right	1:1	0.060	40.41	
707.50	141500	Mid	NR Band n12	15	24.21	0	DFT-s-OFDM QPSK	1	77	0	Left	1:1	0.105	37.98	
836.50	167300	Mid	NR Band n5	20	24.60	0	DFT-s-OFDM QPSK	1	1	0	Back	1:1	0.907	29.00	28.13
836.50	167300	Mid	NR Band n5	20	24.60	0	DFT-s-OFDM QPSK	1	1	0	Front	1:1	1.110	28.13	
836.50	167300	Mid	NR Band n5	20	24.60	0	DFT-s-OFDM QPSK	1	1	0	Bottom	1:1	0.753	29.81	
836.50	167300	Mid	NR Band n5	20	24.60	0	DFT-s-OFDM QPSK	1	1	0	Right	1:1	0.149	36.85	
836.50	167300	Mid	NR Band n5	20	24.60	0	DFT-s-OFDM QPSK	1	1	0	Left	1:1	0.232	34.92	
1720.00	344000	Low	NR Band n66	20	19.98	0	DFT-s-OFDM QPSK	1	53	0	Back	1:1	2.200	20.54	20.12
1745.00	349000	Mid	NR Band n66	20	19.72	0	DFT-s-OFDM QPSK	1	1	0	Back	1:1	2.150	20.38	
1770.00	354000	High	NR Band n66	20	20.03	0	DFT-s-OFDM QPSK	1	53	0	Back	1:1	2.450	20.12	
1720.00	344000	Low	NR Band n66	20	19.85	0	DFT-s-OFDM QPSK	50	0	0	Back	1:1	2.130	20.55	
1745.00	349000	Mid	NR Band n66	20	19.64	0	DFT-s-OFDM QPSK	50	0	0	Back	1:1	2.150	20.30	
1770.00	354000	High	NR Band n66	20	19.96	0	DFT-s-OFDM QPSK	50	0	0	Back	1:1	2.160	20.59	
1770.00	354000	High	NR Band n66	20	19.87	0	DFT-s-OFDM QPSK	100	0	0	Back	1:1	2.160	20.50	
1720.00	344000	Low	NR Band n66	20	19.98	0	DFT-s-OFDM QPSK	1	53	0	Front	1:1	1.840	21.31	
1745.00	349000	Mid	NR Band n66	20	19.72	0	DFT-s-OFDM QPSK	1	1	0	Front	1:1	1.820	21.10	
1770.00	354000	High	NR Band n66	20	20.03	0	DFT-s-OFDM QPSK	1	53	0	Front	1:1	1.880	21.27	
1720.00	344000	Low	NR Band n66	20	19.85	0	DFT-s-OFDM QPSK	50	0	0	Front	1:1	1.740	21.42	
1745.00	349000	Mid	NR Band n66	20	19.64	0	DFT-s-OFDM QPSK	50	0	0	Front	1:1	1.820	21.02	
1770.00	354000	High	NR Band n66	20	19.96	0	DFT-s-OFDM QPSK	50	0	0	Front	1:1	1.810	21.36	
1770.00	354000	High	NR Band n66	20	19.87	0	DFT-s-OFDM QPSK	100	0	0	Front	1:1	1.810	21.27	
1720.00	344000	Low	NR Band n66	20	19.98	0	DFT-s-OFDM QPSK	1	53	0	Bottom	1:1	1.910	21.15	
1745.00	349000	Mid	NR Band n66	20	19.72	0	DFT-s-OFDM QPSK	1	1	0	Bottom	1:1	1.930	20.84	
1770.00	354000	High	NR Band n66	20	20.03	0	DFT-s-OFDM QPSK	1	53	0	Bottom	1:1	1.910	21.20	
1720.00	344000	Low	NR Band n66	20	19.85	0	DFT-s-OFDM QPSK	50	0	0	Bottom	1:1	1.880	21.09	
1745.00	349000	Mid	NR Band n66	20	19.64	0	DFT-s-OFDM QPSK	50	0	0	Bottom	1:1	1.900	20.83	
1770.00	354000	High	NR Band n66	20	19.96	0	DFT-s-OFDM QPSK	50	0	0	Bottom	1:1	1.850	21.27	
1770.00	354000	High	NR Band n66	20	19.87	0	DFT-s-OFDM QPSK	100	0	0	Bottom	1:1	2.030	20.77	
1720.00	344000	Low	NR Band n66	20	23.93	0	DFT-s-OFDM QPSK	1	53	0	Right	1:1	0.509	30.84	
1720.00	344000	Low	NR Band n66	20	23.67	0	DFT-s-OFDM QPSK	50	28	0	Right	1:1	0.491	30.74	
1720.00	344000	Low	NR Band n66	20	23.93	0	DFT-s-OFDM QPSK	1	53	0	Left	1:1	0.311	32.98	
1720.00	344000	Low	NR Band n66	20	23.67	0	DFT-s-OFDM QPSK	50	28	0	Left	1:1	0.305	32.81	
1770.00	354000	High	NR Band n66	20	19.80	0	CP-OFDM QPSK	1	1	0	Back	1:1	2.200	20.36	

For some bands/modes, a lower P_{Limit} was selected as a more conservative evaluation.
Data highlighted in blue was tested and provided by the manufacturer.

FCC ID: A3LSMN986U	 Proud to be part of 	PART 0 SAR CHAR REPORT		Approved by: Quality Manager
Test Dates: 04/22/20 – 06/07/20	DUT Type: Portable Handset	APPENDIX A: Page 20 of 21		

Table A-21
DSI = 1 P_{Limit} Calculations – 5G Phablet SAR

MEASUREMENT RESULTS															
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Modulation	RB Size	RB Offset	Spacing (mm)	Side	Duty Cycle	SAR (10g)	PLimit	Minimum PLimit
MHz	Ch.												(W/kg)	[dBm]	[dBm]
1860.00	372000	Low	NR Band n25	20	20.04	0	DFT-s-OFDM QPSK	1	53	0	Back	1:1	1.990	21.03	20.55
1882.50	376500	Mid	NR Band n25	20	19.86	0	DFT-s-OFDM QPSK	1	104	0	Back	1:1	1.950	20.94	
1905.00	381000	High	NR Band n25	20	20.31	0	DFT-s-OFDM QPSK	1	53	0	Back	1:1	2.120	21.03	
1860.00	372000	Low	NR Band n25	20	19.97	0	DFT-s-OFDM QPSK	50	0	0	Back	1:1	2.020	20.90	
1882.50	376500	Mid	NR Band n25	20	19.81	0	DFT-s-OFDM QPSK	50	56	0	Back	1:1	1.990	20.80	
1905.00	381000	High	NR Band n25	20	20.17	0	DFT-s-OFDM QPSK	50	28	0	Back	1:1	2.130	20.87	
1905.00	381000	High	NR Band n25	20	20.13	0	DFT-s-OFDM QPSK	100	0	0	Back	1:1	2.150	20.79	
1905.00	381000	High	NR Band n25	20	20.31	0	DFT-s-OFDM QPSK	1	53	0	Front	1:1	1.750	21.86	
1905.00	381000	High	NR Band n25	20	20.17	0	DFT-s-OFDM QPSK	50	28	0	Front	1:1	1.750	21.72	
1860.00	372000	Low	NR Band n25	20	20.04	0	DFT-s-OFDM QPSK	1	53	0	Bottom	1:1	1.920	21.19	
1882.50	376500	Mid	NR Band n25	20	19.86	0	DFT-s-OFDM QPSK	1	104	0	Bottom	1:1	1.940	20.96	
1905.00	381000	High	NR Band n25	20	20.31	0	DFT-s-OFDM QPSK	1	53	0	Bottom	1:1	2.180	20.90	
1860.00	372000	Low	NR Band n25	20	19.97	0	DFT-s-OFDM QPSK	50	0	0	Bottom	1:1	1.990	20.96	
1882.50	376500	Mid	NR Band n25	20	19.81	0	DFT-s-OFDM QPSK	50	56	0	Bottom	1:1	1.830	21.16	
1905.00	381000	High	NR Band n25	20	20.17	0	DFT-s-OFDM QPSK	50	28	0	Bottom	1:1	2.160	20.80	
1905.00	381000	High	NR Band n25	20	20.13	0	DFT-s-OFDM QPSK	100	0	0	Bottom	1:1	2.270	20.55	
1905.00	381000	High	NR Band n25	20	23.91	0	DFT-s-OFDM QPSK	1	53	0	Right	1:1	0.582	30.24	
1905.00	381000	High	NR Band n25	20	23.91	0	DFT-s-OFDM QPSK	50	28	0	Right	1:1	0.545	30.53	
1905.00	381000	High	NR Band n25	20	23.91	0	DFT-s-OFDM QPSK	1	53	0	Left	1:1	0.350	32.45	
1905.00	381000	High	NR Band n25	20	23.91	0	DFT-s-OFDM QPSK	50	28	0	Left	1:1	0.323	32.80	
1905.00	381000	High	NR Band n25	20	20.10	0	CP-OFDM QPSK	1	1	0	Bottom	1:1	2.110	20.84	
2592.99	518598	Mid	NR Band n41	100	24.45	0	DFT-s-OFDM QPSK	1	137	0	Back	1:4	0.071	33.90	27.32
2592.99	518598	Mid	NR Band n41	100	24.45	0	DFT-s-OFDM QPSK	1	137	0	Front	1:4	0.124	31.47	
2592.99	518598	Mid	NR Band n41	100	24.45	0	DFT-s-OFDM QPSK	1	137	0	Top	1:4	0.323	27.32	
2592.99	518598	Mid	NR Band n41	100	24.45	0	DFT-s-OFDM QPSK	1	137	0	Left	1:4	0.013	41.27	

For some bands/modes, a lower P_{Limit} was selected as a more conservative evaluation.
Data highlighted in blue was tested and provided by the manufacturer.

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