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PART 0 SAR CHAR REPORT

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FCC ID:	**A3LSMA426U**
APPLICANT:	**SAMSUNG ELECTRONICS CO., LTD**

Report Type:	Part 0 SAR Characterization
DUT Type:	Portable Handset
Model(s):	SM-A426U
Additional Model(s):	SM-A426U1, SM-A426U1/DS, SM-S426DL

Note: This revised Test Report (S/N: 1M2009230152-01-R2.A3L) supersedes and replaces the previously issued test report on the same subject device for the same type of testing as indicated. Please discard or destroy the previously issued test report(s) and dispose of it accordingly.

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

ACCREDITED
CERT #2041.01

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1 DEVICE UNDER TEST

1.1 Device Overview

Band & Mode	Operating Modes	Tx Frequency
CDMA/EVDO BC10 (§90S)	Voice/Data	817.90 - 823.10 MHz
CDMA/EVDO BC0 (§22H)	Voice/Data	824.70 - 848.31 MHz
PCS CDMA/EVDO	Voice/Data	1851.25 - 1908.75 MHz
GSM/GPRS/EDGE 850	Voice/Data	824.20 - 848.80 MHz
GSM/GPRS/EDGE 1900	Voice/Data	1850.20 - 1909.80 MHz
UMTS 850	Voice/Data	826.40 - 846.60 MHz
UMTS 1750	Voice/Data	1712.4 - 1752.6 MHz
UMTS 1900	Voice/Data	1852.4 - 1907.6 MHz
LTE Band 71	Voice/Data	665.5 - 695.5 MHz
LTE Band 12	Voice/Data	699.7 - 715.3 MHz
LTE Band 13	Voice/Data	779.5 - 784.5 MHz
LTE Band 14	Voice/Data	790.5 - 795.5 MHz
LTE Band 26 (Cell)	Voice/Data	814.7 - 848.3 MHz
LTE Band 5 (Cell)	Voice/Data	824.7 - 848.3 MHz
LTE Band 66 (AWS)	Voice/Data	1710.7 - 1779.3 MHz
LTE Band 4 (AWS)	Voice/Data	1710.7 - 1754.3 MHz
LTE Band 25 (PCS)	Voice/Data	1850.7 - 1914.3 MHz
LTE Band 2 (PCS)	Voice/Data	1850.7 - 1909.3 MHz
LTE Band 30	Voice/Data	2307.5 - 2312.5 MHz
LTE Band 7	Voice/Data	2502.5 - 2567.5 MHz
LTE Band 48	Voice/Data	3552.5 - 3697.5 MHz
LTE Band 41	Voice/Data	2498.5 - 2687.5 MHz
NR Band n71	Data	665.5 - 695.5 MHz
NR Band n5 (Cell)	Data	826.5 - 846.5 MHz
NR Band n66 (AWS)	Data	1712.5 - 1777.5 MHz
NR Band n25 (PCS)	Data	1852.5 - 1912.5 MHz
NR Band n2 (PCS)	Data	1852.5 - 1907.5 MHz
NR Band n41	Data	2506.02 - 2679.99 MHz
NR Band n77	Data	3700 - 3980 MHz
NR Band n260	Data	37000 - 40000 MHz
NR Band n261	Data	27500 - 28350 MHz
2.4 GHz WLAN	Voice/Data	2412 - 2472 MHz
U-NII-1	Voice/Data	5180 - 5240 MHz
U-NII-2A	Voice/Data	5260 - 5320 MHz
U-NII-2C	Voice/Data	5500 - 5720 MHz
U-NII-3	Voice/Data	5745 - 5825 MHz
Bluetooth	Data	2402 - 2480 MHz
NFC	Data	13.56 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 technologies, but the output power of these modems is not controlled by the Smart Transmit algorithm.

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 *Plimit* for all technologies and bands

1.4 Bibliography

Report Type	Report Serial Number
FCC Part 0 PD Characterization Report	1M2101040001-26.A3L
FCC SAR Evaluation Report (Part 1)	1M2101040001-01.A3L
FCC PD Evaluation Report (Part 1)	1M2101040001-20.A3L
RF Exposure Part 2 Test Report	1M2101040001-21.A3L
RF Exposure Compliance Summary	1M2101040001-22.A3L

2 SAR AND POWER DENSITY MEASUREMENTS

2.1 SAR Definition

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

Equation 2-1
SAR Mathematical Equation

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

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

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

where:

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

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

2.2 SAR Measurement Procedure

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

1. The SAR distribution at the exposed side of the head or body was measured at a distance no greater than 5.0 mm from the inner surface of the shell. The area covered the entire dimension of the device-head and body interface and the horizontal grid resolution was determined per FCC KDB Publication 865664 D01v01r04 (See
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.

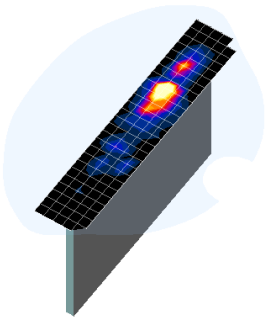

Figure 2-1
Sample SAR Area Scan

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

*Also compliant to IEEE 1528-2013 Table 6

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 = 1)	▪ Device positioned next to head ▪ Receiver Active	*Head SAR per KDB Publication 648474 D04*
Hotspot mode (DSI = 2)	▪ Device transmits in hotspot mode near body ▪ Hotspot Mode Active	*Hotspot SAR per KDB Publication 941225 D06*
Phablet Grip (DSI=3, 4, 5, or 6)	▪ 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**

SAR_design_target			
$SAR\_design\_target < SAR\_regulatory\_limit \times 10^{\frac{-Total\ Uncertainty}{10}}$			
1g SAR (W/kg)		**10g SAR (W/kg)**	
Total Uncertainty	1.0 dB	*Total Uncertainty*	1.0 dB
SAR_regulatory_limit	1.6 W/kg	*SAR_regulatory_limit*	4.0 W/kg
SAR_design_target	1.0 W/kg	*SAR_design_target*	2.5 W/kg

3.3 SAR Char

SAR test results corresponding to *Pmax* for each antenna/technology/band/DSI can be found in Appendix A.

Plimit is calculated by linearly scaling with the measured SAR at the Ppart0 to correspond to the *SAR_design_target*. When *Plimit* < *Pmax*, *Ppart0* was used as Plimit in the Smart Transmit EFS. When *Plimit* > *Pmax* and *Ppart0*=Pmax, calculated *Plimit* was used in the Smart Transmit EFS. All reported SAR obtained from the Ppart0 SAR tests was less than *SAR_Design_targe*t+ 1 dB Uncertainty. The final *Plimit* determination for each exposure scenario corresponding to *SAR_design_target* are shown in Table 3-3.

Table 3-3
***PLimit* Determination**

Device State Index (DSI)	*PLimit* 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 7 mm spacing for back for Main Antenna 1, measured at 10 mm and 6 mm spacing for back and left respectively for Main Antenna 2, and 0mm for all edges for Sub Antenna 4. 3. Extremity SAR measured at 0 mm for front, bottom, right, and left surfaces on Main Antenna 1 and 0 mm for front and top surfaces for Main Antenna 2.
3, 4, 5, or 6	P_{limit} is calculated based on 10g Extremity SAR measured at 0 mm for front, all surfaces on Main Antenna 1, Main Antenna 2, and Sub Antenna 4.
1	P_{limit} is calculated based on 1g Head SAR
2	P_{limit} is calculated based on 1g Hotspot SAR at 10 mm

Note:

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

$$P_{limit} = \min\{ P_{limit} \text{ corresponding to 1g Body Worn SAR evaluation at 15 mm spacing,}$$
$$P_{limit} \text{ corresponding to 10g Extremity SAR evaluation at 7mm back side spacing for Main Antenna 1,}$$
$$\text{10 mm back side and 6mm left edge spacing for Main Antenna 2,}$$
$$\text{and 0mm spacing for all surfaces on Sub Antenna 4}$$
$$P_{limit} \text{ corresponding to 10g Extremity SAR evaluation at 0 mm for front, bottom,}$$
$$\text{left and right surfaces for Main Antenna 1 and}$$
$$\text{0mm spacing for front and top surfaces for Main Antenna 2}\}$$

Table 3-4
SAR Characterizations

Exposure Scenario:	Antenna	Body-Worn	Phablet	Phablet	Head	Hotspot	Earjack	Maximum Tune-up Output Power*
Averaging Volume:		1g	10g	10g	1g	1g	10g	
Spacing:		15 mm	7, 10, 6 mm	0 mm	0 mm	10 mm	0 mm	
DSI:		0	0	4, 5, 6	1	2	3	
Technology/Band		Plimit corresponding to 1mW/g (SAR_design_target)						Pmax
CDMA BC10	MAIN1	28.9		27.0	30.7	26.1	27.0	25.0
EVDO BC10	MAIN1	28.9		27.0	30.7	26.1	27.0	24.0
CDMA BC0	MAIN1	29.7		29.7	30.1	25.8	29.7	25.0
EVDO BC0	MAIN1	29.7		29.7	30.1	25.8	29.7	24.0
CDMA BC1	MAIN1	25.0		19.0	32.4	19.0	19.0	25.0
EVDO BC1	MAIN1	25.0		19.0	32.4	19.0	19.0	24.0
GSM/GPRS/EDGE 850 MHz	MAIN1	29.4		29.0	30.6	27.1	29.0	25.8
GSM/GPRS/EDGE 1900 MHz	MAIN1	25.7		24.8	33.3	24.0	24.8	22.6
UMTS B5	MAIN1	29.5		28.0	31.1	27.7	28.0	24.0
UMTS B4	MAIN1	24.2		20.0	30.5	20.0	20.0	24.0
UMTS B2	MAIN1	27.0		21.0	33.5	21.0	21.0	24.0
LTE FDD B71	MAIN1	29.1		28.5	33.8	28.5	28.5	24.5
LTE FDD B12	MAIN1	28.6		28.7	31.1	27.9	28.7	23.0
LTE FDD B13	MAIN1	29.0		26.6	32.0	26.6	26.6	23.0
LTE FDD B14	MAIN1	30.1		30.8	31.6	27.3	30.8	24.5
LTE FDD B26	MAIN1	29.4		28.0	30.9	27.4	28.0	24.0
LTE FDD B5	MAIN1	29.2		28.2	33.5	28.1	28.2	23.0
LTE FDD B66	MAIN1	25.4		21.0	30.6	21.0	21.0	23.5
LTE FDD B4	MAIN1	25.4		21.0	30.6	21.0	21.0	23.0
LTE FDD B25	MAIN1	24.0		19.0	33.0	19.0	19.0	23.5
LTE FDD B2	MAIN1	24.0		19.0	33.0	19.0	19.0	23.0
LTE FDD B30	MAIN2	25.0		18.5	18.5	18.5	18.5	22.0
LTE FDD B7	MAIN2	23.0		18.5	18.5	18.5	18.5	23.0
LTE TDD B48	SUB4	20.8		20.8	15.0	18.5	20.8	20.0
LTE TDD B41	MAIN2	26.0		18.5	18.5	18.5	18.5	21.5
LTE TDD B41 (PC2)	MAIN2	26.0		18.5	18.5	18.5	18.5	22.4
NR FDD n71	MAIN1	29.1		29.3	33.8	28.2	29.3	24.0
NR FDD n5	MAIN1	29.9		29.9	31.7	27.1	29.9	24.0
NR FDD n66	MAIN1	24.1		21.0	31.5	21.0	21.0	24.0
NR FDD n25/2	MAIN1	24.2		21.0	31.4	21.0	21.0	24.0
NR TDD n41	MAIN2	18.0		18.0	14.0	18.0	18.0	23.0
NR TDD n77	SUB4	17.5		17.5	14.5	17.5	17.5	23.0

Notes:

1. For all modes/bands, when Hotspot Mode (DSI=2) and Extremity sensor (DSI=4,5, or 6) are triggered at the same time, DSI=2 takes priority, thus the P_{limit} for DSI=2 is set to be less or equal to P_{limit} for DSI=4, 5, or 6.
2. When $P_{max} < P_{limit}$, the DUT will operate at a power level up to P_{max}.
3. P_{limit} for DSI=4,5,6 and DSI =3 are the same.
4. For LTE Band 30/7/41/48, NR Band n41/n77, when RCV is active, DSI=1 takes priority over all levels.

4 EQUIPMENT LIST

For SAR measurements

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
Agilent	85033E	3.5mm Standard Calibration Kit	6/6/2020	Annual	6/6/2021	MY53402352
Agilent	8594A	(9kHz-2.9GHz) Spectrum Analyzer	N/A	N/A	N/A	3051A00187
Agilent	8753ES	Network Analyzer	3/5/2020	Annual	3/5/2021	MY40001472
Agilent	8753ES	S-Parameter Network Analyzer	9/16/2020	Annual	9/16/2021	MY40000670
Agilent	8753ES	S-Parameter Vector Network Analyzer	12/15/2020	Annual	12/15/2021	MY40003841
Agilent	E4438C	ESG Vector Signal Generator	8/10/2020	Annual	8/10/2021	MY47270002
Agilent	E4438C	ESG Vector Signal Generator	9/18/2020	Annual	9/18/2021	MY45091346
Agilent	E4440A	PSA Series Spectrum Analyzer	1/29/2021	Annual	1/29/2022	MY46186272
Agilent	E5515C	Wireless Communications Test Set	2/26/2020	Annual	2/26/2021	GB44400860
Agilent	E5515C	Wireless Communications Test Set	12/15/2020	Annual	12/15/2021	GB42361078
Agilent	N4010A	Wireless Connectivity Test Set	N/A	N/A	N/A	GB46170464
Agilent	N5182A	MXG Vector Signal Generator	5/13/2020	Annual	5/13/2021	MY47420603
Agilent	N5182A	MXG Vector Signal Generator	9/25/2020	Annual	9/25/2021	US46240505
Agilent	N9020A	MXA Signal Analyzer	12/21/2020	Annual	12/21/2021	MY50200571
Amplifier Research	1S51G6	Amplifier	CBT	N/A	CBT	433972
Amplifier Research	1S51G6	Amplifier	CBT	N/A	CBT	433974
Anritsu	MA24106A	USB Power Sensor	2/27/2020	Annual	2/27/2021	1244524
Anritsu	MA24106A	USB Power Sensor	2/27/2020	Annual	2/27/2021	1349509
Anritsu	MA24106A	USB Power Sensor	2/27/2020	Annual	2/27/2021	1520503
Anritsu	MA24106A	USB Power Sensor	2/27/2020	Annual	2/27/2021	1520501
Anritsu	MA2411B	Pulse Power Sensor	7/28/2020	Annual	7/28/2021	1339018
Anritsu	MA2411B	Pulse Power Sensor	8/12/2020	Annual	8/12/2021	1207364
Anritsu	ML2495A	Power Meter	11/3/2020	Annual	11/3/2021	1039008
Anritsu	ML2496A	Power Meter	3/23/2020	Annual	3/23/2021	1351001
Anritsu	MT8820C	Radio Communication Analyzer	9/17/2020	Annual	9/17/2021	6201300731
Anritsu	MT8820C	Radio Communication Analyzer	9/30/2020	Annual	9/30/2021	6201240328
Anritsu	MT8821C	Radio Communication Analyzer	2/22/2020	Annual	2/22/2021	6261895213
Anritsu	MT8821C	Radio Communication Analyzer	3/10/2020	Annual	3/10/2021	6200901190
Anritsu	MT8821C	Radio Communication Analyzer	6/15/2020	Annual	6/15/2021	6201381794
Anritsu	MT8821C	Radio Communication Analyzer	7/3/2020	Annual	7/3/2021	6262150047
Anritsu	MT8862A	Wireless Connectivity Test Set	10/29/2020	Annual	10/29/2021	6261782395
Control Company	4040	Therm./ Clock/ Humidity Monitor	2/17/2020	Biennial	2/17/2022	200113269
Control Company	4040	Therm./ Clock/ Humidity Monitor	2/17/2020	Biennial	2/17/2022	200113274
Control Company	4040	Therm./ Clock/ Humidity Monitor	3/6/2020	Biennial	3/6/2022	200170313
Control Company	4352	Long Stem Thermometer	6/26/2019	Biennial	6/26/2021	192282744
Control Company	4352	Long Stem Thermometer	6/26/2019	Biennial	6/26/2021	192282739
Control Company	4352	Long Stem Thermometer	6/26/2019	Biennial	6/26/2021	192282745
Keysight	772D	Dual Directional Coupler	CBT	N/A	CBT	MY52180215
KEYSIGHT	E4438C	VECTOR SIGNAL GENERATOR	6/22/2020	Annual	6/22/2021	MY45092078
Keysight Technologies	85033E	Standard Mechanical Calibration Kit (DC to 9GHz, 3.5mm)	9/1/2020	Annual	9/1/2021	MY53401181
Keysight Technologies	N6705B	DC Power Analyzer	4/27/2019	Biennial	4/27/2021	MY53004059
Keysight Technologies	N9020A	MXA Signal Analyzer	8/14/2020	Annual	8/14/2021	US46470561
Keysight Technologies	N9030A	PXA Signal Analyzer (44GHz)	8/17/2020	Annual	8/17/2021	MY52350166
Keysight Technologies	U3401A	Digital Multimeter	5/14/2020	Biennial	5/14/2022	MY57201470
MCL	BW-N6W5+	6dB Attenuator	CBT	N/A	CBT	1139
MiniCircuits	SLP-2400+	Low Pass Filter	CBT	N/A	CBT	R8975500903
MiniCircuits	VLF-6000+	Low Pass Filter	CBT	N/A	CBT	N/A
Mini-Circuits	BW-N20W5	Power Attenuator	CBT	N/A	CBT	1226
Mini-Circuits	BW-N20W5+	DC to 18 GHz Precision Fixed 20 dB Attenuator	CBT	N/A	CBT	N/A
Mini-Circuits	NLP-1200+	Low Pass Filter DC to 1000 MHz	CBT	N/A	CBT	N/A
Mini-Circuits	NLP-2950+	Low Pass Filter DC to 2700 MHz	CBT	N/A	CBT	N/A
Narda	4014C-6	4 - 8 GHz SMA 6 dB Directional Coupler	CBT	N/A	CBT	N/A
Narda	4772-3	Attenuator (3dB)	CBT	N/A	CBT	9406
Narda	BW-S3W2	Attenuator (3dB)	CBT	N/A	CBT	120
Pasternack	NC-100	Torque Wrench	12/1/2020	Annual	12/1/2021	N/A
Pasternack	NC-100	Torque Wrench	8/4/2020	Biennial	8/4/2022	N/A
Pasternack	PE220B-6	Bidirectional Coupler	CBT	N/A	CBT	N/A
Pasternack	PE2209-10	Bidirectional Coupler	CBT	N/A	CBT	N/A
Rohde & Schwarz	CMW500	Radio Communication Tester	3/27/2020	Annual	3/27/2021	128633
Rohde & Schwarz	CMW500	Radio Communication Tester	4/23/2020	Annual	4/23/2021	167283
Rohde & Schwarz	CMW500	Radio Communication Tester	5/2/2020	Annual	5/2/2021	167286
Rohde & Schwarz	ZNLE6	Vector Network Analyzer	9/29/2020	Annual	9/29/2021	101307
SPEAG	D1750V2	1750 MHz SAR Dipole	10/22/2018	Triennial	10/22/2021	1150
SPEAG	D1765V2	1765 MHz SAR Dipole	5/23/2018	Triennial	5/23/2021	1008
SPEAG	D1900V2	1900 MHz SAR Dipole	2/21/2019	Biennial	2/21/2021	5d148
SPEAG	D1900V2	1900 MHz SAR Dipole	10/23/2018	Triennial	10/23/2021	5d080
SPEAG	D1900V2	1900 MHz SAR Dipole	10/23/2018	Triennial	10/23/2021	5d149
SPEAG	D2300V2	2300 MHz SAR Dipole	8/13/2018	Triennial	8/13/2021	1073
SPEAG	D2450V2	2450 MHz SAR Dipole	8/14/2020	Annual	8/14/2021	719
SPEAG	D2450V2	2450 MHz SAR Dipole	9/9/2020	Annual	9/9/2021	797
SPEAG	D2600V2	2600 MHz SAR Dipole	4/11/2018	Triennial	4/11/2021	1004
SPEAG	D2600V2	2600 MHz SAR Dipole	6/14/2019	Biennial	6/14/2021	1064
SPEAG	D3500V2	3500 MHz SAR Dipole	1/21/2020	Biennial	1/21/2022	1097
SPEAG	D3500V2	3500 MHz SAR Dipole	1/19/2021	Triennial	1/19/2024	1059
SPEAG	D3700V2	3700 MHz SAR Dipole	1/21/2020	Biennial	1/21/2022	1067
SPEAG	D3900V2	3900 MHz SAR Dipole	10/9/2020	Annual	10/9/2021	1056
SPEAG	D5GHzV2	5 GHz SAR Dipole	8/10/2018	Triennial	8/10/2021	1237
SPEAG	D5GHzV2	5 GHz SAR Dipole	9/10/2020	Annual	9/10/2021	1191
SPEAG	D750V3	750 MHz SAR Dipole	3/11/2020	Annual	3/11/2021	1054
SPEAG	D750V3	750 MHz SAR Dipole	10/19/2018	Triennial	10/19/2021	1161
SPEAG	D750V3	750 MHz SAR Dipole	3/16/2020	Annual	3/16/2021	1003
SPEAG	D835V2	835 MHz SAR Dipole	3/13/2019	Biennial	3/13/2021	4d047
SPEAG	D835V2	835 MHz SAR Dipole	10/19/2018	Triennial	10/19/2021	4d133
SPEAG	DAE4	Dasy Data Acquisition Electronics	4/15/2020	Annual	4/15/2021	1407
SPEAG	DAE4	Dasy Data Acquisition Electronics	5/14/2020	Annual	5/14/2021	1583
SPEAG	DAE4	Dasy Data Acquisition Electronics	5/20/2020	Annual	5/20/2021	728
SPEAG	DAE4	Dasy Data Acquisition Electronics	6/18/2020	Annual	6/18/2021	1334
SPEAG	DAE4	Dasy Data Acquisition Electronics	7/15/2020	Annual	7/15/2021	1322
SPEAG	DAE4	Dasy Data Acquisition Electronics	8/11/2020	Annual	8/11/2021	1450
SPEAG	DAE4	Dasy Data Acquisition Electronics	9/10/2020	Annual	9/10/2021	1449
SPEAG	DAE4	Dasy Data Acquisition Electronics	10/16/2020	Annual	10/16/2021	1333
SPEAG	DAE4	Dasy Data Acquisition Electronics	1/13/2021	Annual	1/13/2022	1558
SPEAG	DAE4	Data Acquisition Electronics	12/7/2020	Annual	12/7/2021	1533
SPEAG	DAK-3.5	Dielectric Assessment Kit	5/12/2020	Annual	5/12/2021	1070
SPEAG	EX3DV4	SAR Probe	4/21/2020	Annual	4/21/2021	7357
SPEAG	EX3DV4	SAR Probe	6/23/2020	Annual	6/23/2021	7406
SPEAG	EX3DV4	SAR Probe	6/23/2020	Annual	6/23/2021	7409
SPEAG	EX3DV4	SAR Probe	7/20/2020	Annual	7/20/2021	7410
SPEAG	EX3DV4	SAR Probe	7/31/2020	Annual	7/31/2021	7308
SPEAG	EX3DV4	SAR Probe	9/11/2020	Annual	9/11/2021	7552
SPEAG	EX3DV4	SAR Probe	10/20/2020	Annual	10/20/2021	7551
SPEAG	EX3DV4	SAR Probe	10/20/2020	Annual	10/20/2021	7539
SPEAG	EX3DV4	SAR Probe	12/11/2020	Annual	12/11/2021	7571
SPEAG	EX3DV4	SAR Probe	1/20/2021	Annual	1/20/2022	3589

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.

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 Unceritainty	0.6	R	1.73	0.23	0.26	0.1	0.1	∞
Liquid Conductivity - deviation from target values	5.0	R	1.73	0.64	0.43	1.8	1.2	∞
Liquid Permittivity - deviation from target values	5.0	R	1.73	0.60	0.49	1.7	1.4	∞
Combined Standard Uncertainty (k=1)		RSS				11.5	11.3	60
Expanded Uncertainty (95% CONFIDENCE LEVEL)		k=2				23.0	22.6	

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

Table A-1
DSI = 1 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	CDMA BC10 (§90S)	RC3 / SO55	24.82	Right	Cheek	1:1	0.231	31.18	30.67
820.10	564	CDMA BC10 (§90S)	RC3 / SO55	24.82	Right	Tilt	1:1	0.128	33.75	
820.10	564	CDMA BC10 (§90S)	RC3 / SO55	24.82	Left	Cheek	1:1	0.216	31.48	
820.10	564	CDMA BC10 (§90S)	RC3 / SO55	24.82	Left	Tilt	1:1	0.131	33.65	
820.10	564	CDMA BC10 (§90S)	EVDO Rev. A	23.79	Right	Cheek	1:1	0.204	30.69	
820.10	564	CDMA BC10 (§90S)	EVDO Rev. A	23.79	Right	Tilt	1:1	0.112	33.30	
820.10	564	CDMA BC10 (§90S)	EVDO Rev. A	23.79	Left	Cheek	1:1	0.205	30.67	
820.10	564	CDMA BC10 (§90S)	EVDO Rev. A	23.79	Left	Tilt	1:1	0.104	33.62	
836.52	384	CDMA BC0 (§22H)	RC3 / SO55	24.89	Right	Cheek	1:1	0.235	31.18	30.10
836.52	384	CDMA BC0 (§22H)	RC3 / SO55	24.89	Right	Tilt	1:1	0.115	34.28	
836.52	384	CDMA BC0 (§22H)	RC3 / SO55	24.89	Left	Cheek	1:1	0.210	31.67	
836.52	384	CDMA BC0 (§22H)	RC3 / SO55	24.89	Left	Tilt	1:1	0.117	34.21	
836.52	384	CDMA BC0 (§22H)	EVDO Rev. A	23.87	Right	Cheek	1:1	0.238	30.10	
836.52	384	CDMA BC0 (§22H)	EVDO Rev. A	23.87	Right	Tilt	1:1	0.118	33.15	
836.52	384	CDMA BC0 (§22H)	EVDO Rev. A	23.87	Left	Cheek	1:1	0.208	30.69	
836.52	384	CDMA BC0 (§22H)	EVDO Rev. A	23.87	Left	Tilt	1:1	0.120	33.08	
1880.00	600	PCS CDMA	RC3 / SO55	25.11	Right	Cheek	1:1	0.143	33.56	32.35
1880.00	600	PCS CDMA	RC3 / SO55	25.11	Right	Tilt	1:1	0.088	35.67	
1880.00	600	PCS CDMA	RC3 / SO55	25.11	Left	Cheek	1:1	0.172	32.75	
1880.00	600	PCS CDMA	RC3 / SO55	25.11	Left	Tilt	1:1	0.128	34.04	
1880.00	600	PCS CDMA	EVDO Rev. A	24.05	Right	Cheek	1:1	0.133	32.81	
1880.00	600	PCS CDMA	EVDO Rev. A	24.05	Right	Tilt	1:1	0.096	34.23	
1880.00	600	PCS CDMA	EVDO Rev. A	24.05	Left	Cheek	1:1	0.148	32.35	
1880.00	600	PCS CDMA	EVDO Rev. A	24.05	Left	Tilt	1:1	0.108	33.72	
836.60	190	GSM 850	GSM	33.07	Right	Cheek	1:8.3	0.212	30.61	30.61
836.60	190	GSM 850	GSM	33.07	Right	Tilt	1:8.3	0.109	33.49	
836.60	190	GSM 850	GSM	33.07	Left	Cheek	1:8.3	0.170	31.56	
836.60	190	GSM 850	GSM	33.07	Left	Tilt	1:8.3	0.104	33.70	
1880.00	661	GSM 1900	GSM	30.08	Right	Cheek	1:8.3	0.036	35.32	33.32
1880.00	661	GSM 1900	GSM	30.08	Right	Tilt	1:8.3	0.033	35.69	
1880.00	661	GSM 1900	GSM	30.08	Left	Cheek	1:8.3	0.057	33.32	
1880.00	661	GSM 1900	GSM	30.08	Left	Tilt	1:8.3	0.043	34.54	
836.60	4183	UMTS 850	RMC	23.63	Right	Cheek	1:1	0.180	31.08	31.08
836.60	4183	UMTS 850	RMC	23.63	Right	Tilt	1:1	0.083	34.44	
836.60	4183	UMTS 850	RMC	23.63	Left	Cheek	1:1	0.147	31.96	
836.60	4183	UMTS 850	RMC	23.63	Left	Tilt	1:1	0.080	34.60	
1732.40	1412	UMTS 1750	RMC	23.45	Right	Cheek	1:1	0.198	30.48	30.48
1732.40	1412	UMTS 1750	RMC	23.45	Right	Tilt	1:1	0.123	32.55	
1732.40	1412	UMTS 1750	RMC	23.45	Left	Cheek	1:1	0.153	31.60	
1732.40	1412	UMTS 1750	RMC	23.45	Left	Tilt	1:1	0.147	31.78	
1880.00	9400	UMTS 1900	RMC	24.22	Right	Cheek	1:1	0.115	33.61	33.54
1880.00	9400	UMTS 1900	RMC	24.22	Right	Tilt	1:1	0.078	35.30	
1880.00	9400	UMTS 1900	RMC	24.22	Left	Cheek	1:1	0.117	33.54	
1880.00	9400	UMTS 1900	RMC	24.22	Left	Tilt	1:1	0.078	35.30	

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

Table A-2
DSI = 1 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	24.85	0	Right	Cheek	QPSK	1	0	1:1	0.114	34.28	33.75
680.5	133297	Mid	LTE Band 71	20	24.04	1	Right	Cheek	QPSK	50	0	1:1	0.107	33.75	
680.5	133297	Mid	LTE Band 71	20	24.85	0	Right	Tilt	QPSK	1	0	1:1	0.055	37.45	
680.5	133297	Mid	LTE Band 71	20	24.04	1	Right	Tilt	QPSK	50	0	1:1	0.052	36.88	
680.5	133297	Mid	LTE Band 71	20	24.85	0	Left	Cheek	QPSK	1	0	1:1	0.122	33.99	
680.5	133297	Mid	LTE Band 71	20	24.04	1	Left	Cheek	QPSK	50	0	1:1	0.101	34.00	
680.5	133297	Mid	LTE Band 71	20	24.85	0	Left	Tilt	QPSK	1	0	1:1	0.055	37.45	
680.5	133297	Mid	LTE Band 71	20	24.04	1	Left	Tilt	QPSK	50	0	1:1	0.050	37.05	
707.5	23095	Mid	LTE Band 12	10	22.60	0	Right	Cheek	QPSK	1	0	1:1	0.141	31.11	31.11
707.5	23095	Mid	LTE Band 12	10	21.65	1	Right	Cheek	QPSK	25	0	1:1	0.109	31.28	
707.5	23095	Mid	LTE Band 12	10	22.60	0	Right	Tilt	QPSK	1	0	1:1	0.068	34.27	
707.5	23095	Mid	LTE Band 12	10	21.65	1	Right	Tilt	QPSK	25	0	1:1	0.052	34.49	
707.5	23095	Mid	LTE Band 12	10	22.60	0	Left	Cheek	QPSK	1	0	1:1	0.115	31.99	
707.5	23095	Mid	LTE Band 12	10	21.65	1	Left	Cheek	QPSK	25	0	1:1	0.091	32.06	
707.5	23095	Mid	LTE Band 12	10	22.60	0	Left	Tilt	QPSK	1	0	1:1	0.059	34.89	
707.5	23095	Mid	LTE Band 12	10	21.65	1	Left	Tilt	QPSK	25	0	1:1	0.045	35.12	
782.0	23230	Mid	LTE Band 13	10	23.14	0	Right	Cheek	QPSK	1	49	1:1	0.123	32.24	31.96
782.0	23230	Mid	LTE Band 13	10	22.13	1	Right	Cheek	QPSK	25	25	1:1	0.104	31.96	
782.0	23230	Mid	LTE Band 13	10	23.14	0	Right	Tilt	QPSK	1	49	1:1	0.062	35.22	
782.0	23230	Mid	LTE Band 13	10	22.13	1	Right	Tilt	QPSK	25	25	1:1	0.051	35.05	
782.0	23230	Mid	LTE Band 13	10	23.14	0	Left	Cheek	QPSK	1	49	1:1	0.093	33.46	
782.0	23230	Mid	LTE Band 13	10	22.13	1	Left	Cheek	QPSK	25	25	1:1	0.081	33.05	
782.0	23230	Mid	LTE Band 13	10	23.14	0	Left	Tilt	QPSK	1	49	1:1	0.052	35.98	
782.0	23230	Mid	LTE Band 13	10	22.13	1	Left	Tilt	QPSK	25	25	1:1	0.043	35.80	
793.0	23330	Mid	LTE Band 14	10	24.52	0	Right	Cheek	QPSK	1	0	1:1	0.195	31.62	31.62
793.0	23330	Mid	LTE Band 14	10	23.54	1	Right	Cheek	QPSK	25	12	1:1	0.149	31.81	
793.0	23330	Mid	LTE Band 14	10	24.52	0	Right	Tilt	QPSK	1	0	1:1	0.113	33.99	
793.0	23330	Mid	LTE Band 14	10	23.54	1	Right	Tilt	QPSK	25	12	1:1	0.087	34.14	
793.0	23330	Mid	LTE Band 14	10	24.52	0	Left	Cheek	QPSK	1	0	1:1	0.175	32.09	
793.0	23330	Mid	LTE Band 14	10	23.54	1	Left	Cheek	QPSK	25	12	1:1	0.126	32.54	
793.0	23330	Mid	LTE Band 14	10	24.52	0	Left	Tilt	QPSK	1	0	1:1	0.103	34.39	
793.0	23330	Mid	LTE Band 14	10	23.54	1	Left	Tilt	QPSK	25	12	1:1	0.079	34.56	
831.5	26865	Mid	LTE Band 26 (Cell)	15	23.97	0	Right	Cheek	QPSK	1	74	1:1	0.201	30.94	30.94
831.5	26865	Mid	LTE Band 26 (Cell)	15	23.05	1	Right	Cheek	QPSK	36	37	1:1	0.159	31.04	
831.5	26865	Mid	LTE Band 26 (Cell)	15	23.97	0	Right	Tilt	QPSK	1	74	1:1	0.106	33.72	
831.5	26865	Mid	LTE Band 26 (Cell)	15	23.05	1	Right	Tilt	QPSK	36	37	1:1	0.081	33.97	
831.5	26865	Mid	LTE Band 26 (Cell)	15	23.97	0	Left	Cheek	QPSK	1	74	1:1	0.161	31.90	
831.5	26865	Mid	LTE Band 26 (Cell)	15	23.05	1	Left	Cheek	QPSK	36	37	1:1	0.118	32.33	
831.5	26865	Mid	LTE Band 26 (Cell)	15	23.97	0	Left	Tilt	QPSK	1	74	1:1	0.094	34.24	
831.5	26865	Mid	LTE Band 26 (Cell)	15	23.05	1	Left	Tilt	QPSK	36	37	1:1	0.066	34.85	
836.5	20525	Mid	LTE Band 5 (Cell)	10	23.14	0	Right	Cheek	QPSK	1	49	1:1	0.093	33.46	33.46
836.5	20525	Mid	LTE Band 5 (Cell)	10	22.26	1	Right	Cheek	QPSK	25	12	1:1	0.073	33.63	
836.5	20525	Mid	LTE Band 5 (Cell)	10	23.14	0	Right	Tilt	QPSK	1	49	1:1	0.042	36.91	
836.5	20525	Mid	LTE Band 5 (Cell)	10	22.26	1	Right	Tilt	QPSK	25	12	1:1	0.030	37.49	
836.5	20525	Mid	LTE Band 5 (Cell)	10	23.14	0	Left	Cheek	QPSK	1	49	1:1	0.087	33.74	
836.5	20525	Mid	LTE Band 5 (Cell)	10	22.26	1	Left	Cheek	QPSK	25	12	1:1	0.064	34.20	
836.5	20525	Mid	LTE Band 5 (Cell)	10	23.14	0	Left	Tilt	QPSK	1	49	1:1	0.047	36.42	
836.5	20525	Mid	LTE Band 5 (Cell)	10	22.26	1	Left	Tilt	QPSK	25	12	1:1	0.036	36.70	

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

Table A-3
DSI = 1 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]
1770.0	132572	High	LTE Band 66 (AWS)	20	23.34	0	Right	Cheek	QPSK	1	99	1:1	0.159	31.33	30.64
1770.0	132572	High	LTE Band 66 (AWS)	20	22.44	1	Right	Cheek	QPSK	50	25	1:1	0.129	31.33	
1770.0	132572	High	LTE Band 66 (AWS)	20	23.34	0	Right	Tilt	QPSK	1	99	1:1	0.150	31.58	
1770.0	132572	High	LTE Band 66 (AWS)	20	22.44	1	Right	Tilt	QPSK	50	25	1:1	0.100	32.44	
1770.0	132572	High	LTE Band 66 (AWS)	20	23.34	0	Left	Cheek	QPSK	1	99	1:1	0.186	30.64	
1770.0	132572	High	LTE Band 66 (AWS)	20	22.44	1	Left	Cheek	QPSK	50	25	1:1	0.145	30.83	
1770.0	132572	High	LTE Band 66 (AWS)	20	23.34	0	Left	Tilt	QPSK	1	99	1:1	0.141	31.85	
1770.0	132572	High	LTE Band 66 (AWS)	20	22.44	1	Left	Tilt	QPSK	50	25	1:1	0.110	32.03	
1882.5	26365	Mid	LTE Band 25 (PCS)	20	23.85	0	Right	Cheek	QPSK	1	50	1:1	0.111	33.40	32.97
1882.5	26365	Mid	LTE Band 25 (PCS)	20	22.75	1	Right	Cheek	QPSK	50	25	1:1	0.086	33.41	
1882.5	26365	Mid	LTE Band 25 (PCS)	20	23.85	0	Right	Tilt	QPSK	1	50	1:1	0.072	35.28	
1882.5	26365	Mid	LTE Band 25 (PCS)	20	22.75	1	Right	Tilt	QPSK	50	25	1:1	0.057	35.19	
1882.5	26365	Mid	LTE Band 25 (PCS)	20	23.85	0	Left	Cheek	QPSK	1	50	1:1	0.120	33.06	
1882.5	26365	Mid	LTE Band 25 (PCS)	20	22.75	1	Left	Cheek	QPSK	50	25	1:1	0.095	32.97	
1882.5	26365	Mid	LTE Band 25 (PCS)	20	23.85	0	Left	Tilt	QPSK	1	50	1:1	0.066	35.65	
1882.5	26365	Mid	LTE Band 25 (PCS)	20	22.75	1	Left	Tilt	QPSK	50	25	1:1	0.058	35.12	
2310.0	27710	Mid	LTE Band 30	10	18.75	0	Right	Cheek	QPSK	1	0	1:1	0.475	21.98	21.95
2310.0	27710	Mid	LTE Band 30	10	18.71	0	Right	Cheek	QPSK	25	0	1:1	0.474	21.95	
2310.0	27710	Mid	LTE Band 30	10	18.75	0	Right	Tilt	QPSK	1	0	1:1	0.225	25.23	
2310.0	27710	Mid	LTE Band 30	10	18.71	0	Right	Tilt	QPSK	25	0	1:1	0.218	25.33	
2310.0	27710	Mid	LTE Band 30	10	18.75	0	Left	Cheek	QPSK	1	0	1:1	0.123	27.85	
2310.0	27710	Mid	LTE Band 30	10	18.71	0	Left	Cheek	QPSK	25	0	1:1	0.125	27.74	
2310.0	27710	Mid	LTE Band 30	10	18.75	0	Left	Tilt	QPSK	1	0	1:1	0.095	28.97	
2310.0	27710	Mid	LTE Band 30	10	18.71	0	Left	Tilt	QPSK	25	0	1:1	0.098	28.80	
2535.0	21100	Mid	LTE Band 7	20	19.08	0	Right	Cheek	QPSK	1	99	1:1	0.474	22.32	21.87
2535.0	21100	Mid	LTE Band 7	20	19.05	0	Right	Cheek	QPSK	50	50	1:1	0.522	21.87	
2535.0	21100	Mid	LTE Band 7	20	19.08	0	Right	Tilt	QPSK	1	99	1:1	0.232	25.43	
2535.0	21100	Mid	LTE Band 7	20	19.05	0	Right	Tilt	QPSK	50	50	1:1	0.252	25.04	
2535.0	21100	Mid	LTE Band 7	20	19.08	0	Left	Cheek	QPSK	1	99	1:1	0.352	23.61	
2535.0	21100	Mid	LTE Band 7	20	19.05	0	Left	Cheek	QPSK	50	50	1:1	0.300	24.28	
2535.0	21100	Mid	LTE Band 7	20	19.08	0	Left	Tilt	QPSK	1	99	1:1	0.232	25.43	
2535.0	21100	Mid	LTE Band 7	20	19.05	0	Left	Tilt	QPSK	50	50	1:1	0.198	26.08	

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

Table A-4
DSI = 1 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]
3560.0	55340	Low	LTE Band 48	20	17.66	0	Right	Cheek	QPSK	1	0	1:1.58	0.762	16.85	15.85
3603.3	55773	Low-Mid	LTE Band 48	20	16.90	0	Right	Cheek	QPSK	1	0	1:1.58	0.691	16.52	
3646.7	56207	Mid-High	LTE Band 48	20	17.10	0	Right	Cheek	QPSK	1	99	1:1.58	0.699	16.67	
3690.0	56640	High	LTE Band 48	20	17.87	0	Right	Cheek	QPSK	1	99	1:1.58	0.711	17.37	
3560.0	55340	Low	LTE Band 48	20	17.77	0	Right	Cheek	QPSK	50	25	1:1.58	0.774	16.90	
3603.3	55773	Low-Mid	LTE Band 48	20	16.91	0	Right	Cheek	QPSK	50	0	1:1.58	0.701	16.47	
3646.7	56207	Mid-High	LTE Band 48	20	17.03	0	Right	Cheek	QPSK	50	50	1:1.58	0.694	16.63	
3690.0	56640	High	LTE Band 48	20	17.88	0	Right	Cheek	QPSK	50	50	1:1.58	0.719	17.33	
3690.0	56640	High	LTE Band 48	20	17.77	0	Right	Cheek	QPSK	100	0	1:1.58	0.772	16.91	
3560.0	55340	Low	LTE Band 48	20	17.66	0	Right	Tilt	QPSK	1	0	1:1.58	0.804	16.62	
3603.3	55773	Low-Mid	LTE Band 48	20	16.90	0	Right	Tilt	QPSK	1	0	1:1.58	0.807	15.85	
3646.7	56207	Mid-High	LTE Band 48	20	17.10	0	Right	Tilt	QPSK	1	99	1:1.58	0.787	16.15	
3690.0	56640	High	LTE Band 48	20	17.87	0	Right	Tilt	QPSK	1	99	1:1.58	0.887	16.40	
3560.0	55340	Low	LTE Band 48	20	17.77	0	Right	Tilt	QPSK	50	25	1:1.58	0.819	16.65	
3603.3	55773	Low-Mid	LTE Band 48	20	16.91	0	Right	Tilt	QPSK	50	0	1:1.58	0.775	16.03	
3646.7	56207	Mid-High	LTE Band 48	20	17.03	0	Right	Tilt	QPSK	50	50	1:1.58	0.793	16.05	
3690.0	56640	High	LTE Band 48	20	17.88	0	Right	Tilt	QPSK	50	50	1:1.58	0.901	16.35	
3690.0	56640	High	LTE Band 48	20	17.77	0	Right	Tilt	QPSK	100	0	1:1.58	0.899	16.25	
3690.0	56640	High	LTE Band 48	20	17.87	0	Left	Cheek	QPSK	1	99	1:1.58	0.350	20.44	
3690.0	56640	High	LTE Band 48	20	17.88	0	Left	Cheek	QPSK	50	50	1:1.58	0.341	20.57	
3690.0	56640	High	LTE Band 48	20	17.87	0	Left	Tilt	QPSK	1	99	1:1.58	0.408	19.78	
3690.0	56640	High	LTE Band 48	20	17.88	0	Left	Tilt	QPSK	50	50	1:1.58	0.414	19.72	

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

Table A-5
DSI = 1 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]
2506.0	39750	Low	LTE Band 41	20	20.49	0	Right	Cheek	QPSK	1	99	1:1.58	0.434	22.13	
2549.5	40185	Low-Mid	LTE Band 41	20	20.62	0	Right	Cheek	QPSK	1	0	1:1.58	0.524	21.44	
2593.0	40620	Mid	LTE Band 41	20	20.76	0	Right	Cheek	QPSK	1	50	1:1.58	0.557	21.32	
2636.5	41055	Mid-High	LTE Band 41	20	20.33	0	Right	Cheek	QPSK	1	50	1:1.58	0.401	22.31	
2680.0	41490	High	LTE Band 41	20	20.26	0	Right	Cheek	QPSK	1	50	1:1.58	0.428	21.96	
2506.0	39750	Low	LTE Band 41	20	20.58	0	Right	Cheek	QPSK	50	50	1:1.58	0.415	22.41	
2549.5	40185	Low-Mid	LTE Band 41	20	20.71	0	Right	Cheek	QPSK	50	25	1:1.58	0.543	21.38	
2593.0	40620	Mid	LTE Band 41	20	20.77	0	Right	Cheek	QPSK	50	25	1:1.58	0.550	21.38	
2636.5	41055	Mid-High	LTE Band 41	20	20.45	0	Right	Cheek	QPSK	50	25	1:1.58	0.400	22.44	21.32
2680.0	41490	High	LTE Band 41	20	20.42	0	Right	Cheek	QPSK	50	50	1:1.58	0.434	22.06	
2593.0	40620	Mid	LTE Band 41	20	20.65	0	Right	Cheek	QPSK	100	0	1:1.58	0.538	21.36	
2593.0	40620	Mid	LTE Band 41	20	20.76	0	Right	Tilt	QPSK	1	50	1:1.58	0.304	23.95	
2593.0	40620	Mid	LTE Band 41	20	20.77	0	Right	Tilt	QPSK	50	25	1:1.58	0.303	23.97	
2593.0	40620	Mid	LTE Band 41	20	20.76	0	Left	Cheek	QPSK	1	50	1:1.58	0.172	26.42	
2593.0	40620	Mid	LTE Band 41	20	20.77	0	Left	Cheek	QPSK	50	25	1:1.58	0.169	26.51	
2593.0	40620	Mid	LTE Band 41	20	20.76	0	Left	Tilt	QPSK	1	50	1:1.58	0.105	28.56	
2593.0	40620	Mid	LTE Band 41	20	20.77	0	Left	Tilt	QPSK	50	25	1:1.58	0.116	28.14	

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

Table A-6
DSI = 1 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)	PLimit	Minimum PLimit
MHz	Ch.												(W/kg)	[dBm]	[dBm]
680.50	136100	Mid	NR Band n71	20	23.40	0	Right	Cheek	DFT-s-OFDM QPSK	1	53	1:1	0.083	34.21	
680.50	136100	Mid	NR Band n71	20	23.35	0	Right	Cheek	DFT-s-OFDM QPSK	50	28	1:1	0.090	33.81	
680.50	136100	Mid	NR Band n71	20	23.40	0	Right	Tilt	DFT-s-OFDM QPSK	1	53	1:1	0.043	37.07	
680.50	136100	Mid	NR Band n71	20	23.35	0	Right	Tilt	DFT-s-OFDM QPSK	50	28	1:1	0.040	37.33	
680.50	136100	Mid	NR Band n71	20	23.40	0	Left	Cheek	DFT-s-OFDM QPSK	1	53	1:1	0.085	34.11	33.81
680.50	136100	Mid	NR Band n71	20	23.35	0	Left	Cheek	DFT-s-OFDM QPSK	50	28	1:1	0.086	34.01	
680.50	136100	Mid	NR Band n71	20	23.40	0	Left	Tilt	DFT-s-OFDM QPSK	1	53	1:1	0.043	37.07	
680.50	136100	Mid	NR Band n71	20	23.35	0	Left	Tilt	DFT-s-OFDM QPSK	50	28	1:1	0.043	37.02	
680.50	136100	Mid	NR Band n71	20	21.81	1.5	Right	Cheek	CP-OFDM QPSK	1	1	1:1	0.060	34.03	
836.50	167300	Mid	NR Band n5	20	23.62	0	Right	Cheek	DFT-s-OFDM QPSK	1	53	1:1	0.157	31.66	
836.50	167300	Mid	NR Band n5	20	23.43	0	Right	Cheek	DFT-s-OFDM QPSK	50	28	1:1	0.144	31.85	
836.50	167300	Mid	NR Band n5	20	23.62	0	Right	Tilt	DFT-s-OFDM QPSK	1	53	1:1	0.071	35.11	
836.50	167300	Mid	NR Band n5	20	23.43	0	Right	Tilt	DFT-s-OFDM QPSK	50	28	1:1	0.072	34.86	
836.50	167300	Mid	NR Band n5	20	23.62	0	Left	Cheek	DFT-s-OFDM QPSK	1	53	1:1	0.124	32.69	31.66
836.50	167300	Mid	NR Band n5	20	23.43	0	Left	Cheek	DFT-s-OFDM QPSK	50	28	1:1	0.127	32.39	
836.50	167300	Mid	NR Band n5	20	23.62	0	Left	Tilt	DFT-s-OFDM QPSK	1	53	1:1	0.075	34.87	
836.50	167300	Mid	NR Band n5	20	23.43	0	Left	Tilt	DFT-s-OFDM QPSK	50	28	1:1	0.075	34.68	
836.50	167300	Mid	NR Band n5	20	22.15	1.5	Right	Cheek	CP-OFDM QPSK	1	1	1:1	0.090	32.61	
1745.00	349000	Mid	NR Band n66	20	24.60	0	Right	Cheek	DFT-s-OFDM QPSK	1	104	1:1	0.147	32.93	
1745.00	349000	Mid	NR Band n66	20	24.40	0	Right	Cheek	DFT-s-OFDM QPSK	50	28	1:1	0.166	32.20	
1745.00	349000	Mid	NR Band n66	20	24.60	0	Right	Tilt	DFT-s-OFDM QPSK	1	104	1:1	0.117	33.92	
1745.00	349000	Mid	NR Band n66	20	24.40	0	Right	Tilt	DFT-s-OFDM QPSK	50	28	1:1	0.126	33.40	
1745.00	349000	Mid	NR Band n66	20	24.60	0	Left	Cheek	DFT-s-OFDM QPSK	1	104	1:1	0.168	32.35	31.55
1745.00	349000	Mid	NR Band n66	20	24.40	0	Left	Cheek	DFT-s-OFDM QPSK	50	28	1:1	0.182	31.80	
1745.00	349000	Mid	NR Band n66	20	24.60	0	Left	Tilt	DFT-s-OFDM QPSK	1	104	1:1	0.103	34.47	
1745.00	349000	Mid	NR Band n66	20	24.40	0	Left	Tilt	DFT-s-OFDM QPSK	50	28	1:1	0.139	32.97	
1745.00	349000	Mid	NR Band n66	20	22.85	1.5	Left	Cheek	CP-OFDM QPSK	1	1	1:1	0.135	31.55	
1860.00	372000	Low	NR Band n25	20	24.78	0	Right	Cheek	DFT-s-OFDM QPSK	1	53	1:1	0.143	33.23	
1860.00	372000	Low	NR Band n25	20	24.66	0	Right	Cheek	DFT-s-OFDM QPSK	50	28	1:1	0.128	33.59	
1860.00	372000	Low	NR Band n25	20	24.78	0	Right	Tilt	DFT-s-OFDM QPSK	1	53	1:1	0.096	34.96	
1860.00	372000	Low	NR Band n25	20	24.66	0	Right	Tilt	DFT-s-OFDM QPSK	50	28	1:1	0.099	34.70	
1860.00	372000	Low	NR Band n25	20	24.78	0	Left	Cheek	DFT-s-OFDM QPSK	1	53	1:1	0.171	32.45	31.44
1860.00	372000	Low	NR Band n25	20	24.66	0	Left	Cheek	DFT-s-OFDM QPSK	50	28	1:1	0.173	32.28	
1860.00	372000	Low	NR Band n25	20	24.78	0	Left	Tilt	DFT-s-OFDM QPSK	1	53	1:1	0.099	34.82	
1860.00	372000	Low	NR Band n25	20	24.66	0	Left	Tilt	DFT-s-OFDM QPSK	50	28	1:1	0.102	34.57	
1860.00	372000	Low	NR Band n25	20	22.58	1.5	Left	Cheek	CP-OFDM QPSK	1	1	1:1	0.130	31.44	
2592.99	518598	Mid	NR Band n41	100	14.12	0	Right	Cheek	DFT-s-OFDM QPSK	1	1	1:1	0.195	21.22	
2592.99	518598	Mid	NR Band n41	100	14.25	0	Right	Cheek	DFT-s-OFDM QPSK	135	0	1:1	0.215	20.93	
2592.99	518598	Mid	NR Band n41	100	14.12	0	Right	Tilt	DFT-s-OFDM QPSK	1	1	1:1	0.104	23.95	
2592.99	518598	Mid	NR Band n41	100	14.25	0	Right	Tilt	DFT-s-OFDM QPSK	135	0	1:1	0.102	24.16	
2592.99	518598	Mid	NR Band n41	100	14.12	0	Left	Cheek	DFT-s-OFDM QPSK	1	1	1:1	0.050	27.13	20.93
2592.99	518598	Mid	NR Band n41	100	14.25	0	Left	Cheek	DFT-s-OFDM QPSK	135	0	1:1	0.059	26.54	
2592.99	518598	Mid	NR Band n41	100	14.12	0	Left	Tilt	DFT-s-OFDM QPSK	1	1	1:1	0.028	29.65	
2592.99	518598	Mid	NR Band n41	100	14.25	0	Left	Tilt	DFT-s-OFDM QPSK	135	0	1:1	0.036	28.69	
2592.99	518598	Mid	NR Band n41	100	14.04	0	Right	Cheek	CP-OFDM QPSK	1	1	1:1	0.201	21.01	

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

Table A-7
DSI = 1 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)	PLimit	Minimum PLimit
MHz	Ch.												(W/kg)	[dBm]	[dBm]
3750.00	650000	Low	NR Band n77	100	15.29	0	Right	Cheek	DFT-s-OFDM QPSK	1	1	1:1	0.834	16.08	
3930.00	662000	High	NR Band n77	100	14.82	0	Right	Cheek	DFT-s-OFDM QPSK	1	1	1:1	0.656	16.65	
3750.00	650000	Low	NR Band n77	100	14.93	0	Right	Cheek	DFT-s-OFDM QPSK	135	69	1:1	0.777	16.03	
3930.00	662000	High	NR Band n77	100	14.85	0	Right	Cheek	DFT-s-OFDM QPSK	135	0	1:1	0.553	17.42	
3750.00	650000	Low	NR Band n77	100	14.58	0	Right	Cheek	DFT-s-OFDM QPSK	270	0	1:1	0.713	16.05	
3750.00	650000	Low	NR Band n77	100	15.29	0	Right	Tilt	DFT-s-OFDM QPSK	1	1	1:1	0.988	15.34	
3930.00	662000	High	NR Band n77	100	14.82	0	Right	Tilt	DFT-s-OFDM QPSK	1	1	1:1	0.714	16.28	
3750.00	650000	Low	NR Band n77	100	14.93	0	Right	Tilt	DFT-s-OFDM QPSK	135	69	1:1	0.970	15.06	
3930.00	662000	High	NR Band n77	100	14.85	0	Right	Tilt	DFT-s-OFDM QPSK	135	0	1:1	0.705	16.37	
3750.00	650000	Low	NR Band n77	100	14.58	0	Right	Tilt	DFT-s-OFDM QPSK	270	0	1:1	0.822	15.43	
3750.00	650000	Low	NR Band n77	100	15.29	0	Left	Cheek	DFT-s-OFDM QPSK	1	1	1:1	0.444	18.82	15.06
3930.00	662000	High	NR Band n77	100	14.82	0	Left	Cheek	DFT-s-OFDM QPSK	1	1	1:1	0.313	19.86	
3750.00	650000	Low	NR Band n77	100	14.93	0	Left	Cheek	DFT-s-OFDM QPSK	135	69	1:1	0.434	18.56	
3930.00	662000	High	NR Band n77	100	14.85	0	Left	Cheek	DFT-s-OFDM QPSK	135	0	1:1	0.357	19.32	
3750.00	650000	Low	NR Band n77	100	14.58	0	Left	Cheek	DFT-s-OFDM QPSK	270	0	1:1	0.376	18.83	
3750.00	650000	Low	NR Band n77	100	15.29	0	Left	Tilt	DFT-s-OFDM QPSK	1	1	1:1	0.636	17.26	
3930.00	662000	High	NR Band n77	100	14.82	0	Left	Tilt	DFT-s-OFDM QPSK	1	1	1:1	0.472	18.08	
3750.00	650000	Low	NR Band n77	100	14.93	0	Left	Tilt	DFT-s-OFDM QPSK	135	69	1:1	0.632	16.92	
3930.00	662000	High	NR Band n77	100	14.85	0	Left	Tilt	DFT-s-OFDM QPSK	135	0	1:1	0.458	18.24	
3750.00	650000	Low	NR Band n77	100	14.58	0	Left	Tilt	DFT-s-OFDM QPSK	270	0	1:1	0.548	17.19	
3750.00	650000	Low	NR Band n77	100	14.79	0	Right	Tilt	CP-OFDM QPSK	1	1	1:1	0.857	15.46	

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

Table A-8
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	24.76	15	Back	1:1	0.387	28.88	28.88
836.52	384	CDMA BC0 (§22H)	TDSO / SO32	24.88	15	Back	1:1	0.309	29.98	29.98
1880.00	600	PCS CDMA	TDSO / SO32	25.03	15	Back	1:1	0.463	28.37	28.37
836.60	190	GSM 850	GSM	33.07	15	Back	1:8.3	0.280	29.40	29.40
1880.00	661	GSM 1900	GSM	30.08	15	Back	1:8.3	0.163	28.76	28.76
836.60	4183	UMTS 850	RMC	23.63	15	Back	1:1	0.215	30.31	30.31
1712.40	1312	UMTS 1750	RMC	23.55	15	Back	1:1	0.439	27.13	25.36
1732.40	1412	UMTS 1750	RMC	23.45	15	Back	1:1	0.512	26.36	
1752.60	1513	UMTS 1750	RMC	23.48	15	Back	1:1	0.649	25.36	
1880.00	9400	UMTS 1900	RMC	24.22	15	Back	1:1	0.223	30.74	30.74

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

Table A-9
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	24.85	0	QPSK	1	0	15	Back	1:1	0.372	29.14	29.14
680.50	133297	Mid	LTE Band 71	20	24.04	1	QPSK	50	0	15	Back	1:1	0.303	29.23	
707.50	23095	Mid	LTE Band 12	10	22.60	0	QPSK	1	0	15	Back	1:1	0.245	28.71	28.62
707.50	23095	Mid	LTE Band 12	10	21.65	1	QPSK	25	0	15	Back	1:1	0.201	28.62	
782.00	23230	Mid	LTE Band 13	10	23.14	0	QPSK	1	49	15	Back	1:1	0.246	29.23	28.97
782.00	23230	Mid	LTE Band 13	10	22.13	1	QPSK	25	25	15	Back	1:1	0.207	28.97	
793.00	23330	Mid	LTE Band 14	10	24.52	0	QPSK	1	0	15	Back	1:1	0.268	30.24	30.14
793.00	23330	Mid	LTE Band 14	10	23.54	1	QPSK	25	12	15	Back	1:1	0.219	30.14	
831.50	26865	Mid	LTE Band 26 (Cell)	15	23.97	0	QPSK	1	74	15	Back	1:1	0.281	29.48	29.48
831.50	26865	Mid	LTE Band 26 (Cell)	15	23.05	1	QPSK	36	37	15	Back	1:1	0.223	29.57	
836.50	20525	Mid	LTE Band 5 (Cell)	10	23.14	0	QPSK	1	49	15	Back	1:1	0.165	30.97	30.97
836.50	20525	Mid	LTE Band 5 (Cell)	10	22.26	1	QPSK	25	12	15	Back	1:1	0.130	31.12	
1770.00	132572	High	LTE Band 66 (AWS)	20	23.15	0	QPSK	1	0	15	Back	1:1	0.314	28.18	28.18
1770.00	132572	High	LTE Band 66 (AWS)	20	22.44	1	QPSK	50	25	15	Back	1:1	0.246	28.53	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	23.85	0	QPSK	1	50	15	Back	1:1	0.366	28.22	28.01
1882.50	26365	Mid	LTE Band 25 (PCS)	20	22.75	1	QPSK	50	25	15	Back	1:1	0.298	28.01	
2310.00	27710	Mid	LTE Band 30	10	22.75	0	QPSK	1	49	15	Back	1:1	0.583	25.09	25.00
2310.00	27710	Mid	LTE Band 30	10	21.80	1	QPSK	25	12	15	Back	1:1	0.479	25.00	
2510.00	20850	Low	LTE Band 7	20	23.55	0	QPSK	1	0	15	Back	1:1	1.120	23.06	23.00
2535.00	21100	Mid	LTE Band 7	20	23.29	0	QPSK	1	0	15	Back	1:1	1.060	23.04	
2560.00	21350	High	LTE Band 7	20	22.68	0	QPSK	1	0	15	Back	1:1	0.626	24.71	
2510.00	20850	Low	LTE Band 7	20	22.63	1	QPSK	50	0	15	Back	1:1	0.904	23.07	
2535.00	21100	Mid	LTE Band 7	20	22.12	1	QPSK	50	0	15	Back	1:1	0.816	23.00	
2560.00	21350	High	LTE Band 7	20	21.91	1	QPSK	50	0	15	Back	1:1	0.507	24.86	
2510.00	20850	Low	LTE Band 7	20	22.43	1	QPSK	100	0	15	Back	1:1	0.853	23.12	
3690.00	56640	High	LTE Band 48	20	22.37	0	QPSK	1	99	15	Back	1:1.58	0.305	25.54	25.54
3690.00	56640	High	LTE Band 48	20	21.44	1	QPSK	50	25	15	Back	1:1.58	0.236	25.72	
2593.00	40620	Mid	LTE Band 41	20	23.75	0	QPSK	1	50	15	Back	1:1.58	0.374	26.04	26.04
2593.00	40620	Mid	LTE Band 41	20	22.76	1	QPSK	50	25	15	Back	1:1.58	0.244	26.90	

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

Table A-10
DSI = 3 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]
2535.00	21100	Mid	LTE Band 7	20	18.79	0	QPSK	1	0	15	Back - headphones	1:1	0.489	21.90	21.90

Table A-11
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	23.40	0	DFT-s-OFDM QPSK	1	53	15	Back	1:1	0.249	29.44	29.09
680.50	136100	Mid	NR Band n71	20	23.35	0	DFT-s-OFDM QPSK	50	28	15	Back	1:1	0.254	29.30	
680.50	136100	Mid	NR Band n71	20	21.81	1.5	CP-OFDM QPSK	1	1	15	Back	1:1	0.187	29.09	
836.50	167300	Mid	NR Band n5	20	23.62	0	DFT-s-OFDM QPSK	1	53	15	Back	1:1	0.179	31.09	30.90
836.50	167300	Mid	NR Band n5	20	23.43	0	DFT-s-OFDM QPSK	50	28	15	Back	1:1	0.179	30.90	
836.50	167300	Mid	NR Band n5	20	22.15	1.5	CP-OFDM QPSK	1	1	15	Back	1:1	0.104	31.98	
1745.00	349000	Mid	NR Band n66	20	24.60	0	DFT-s-OFDM QPSK	1	104	15	Back	1:1	0.393	28.66	27.48
1745.00	349000	Mid	NR Band n66	20	24.40	0	DFT-s-OFDM QPSK	50	28	15	Back	1:1	0.384	28.56	
1745.00	349000	Mid	NR Band n66	20	22.85	1.5	CP-OFDM QPSK	1	1	15	Back	1:1	0.344	27.48	
1860.00	372000	Low	NR Band n25	20	24.78	0	DFT-s-OFDM QPSK	1	53	15	Back	1:1	0.522	27.60	26.17
1860.00	372000	Low	NR Band n25	20	24.66	0	DFT-s-OFDM QPSK	50	28	15	Back	1:1	0.522	27.48	
1860.00	372000	Low	NR Band n25	20	22.58	1.5	CP-OFDM QPSK	1	1	15	Back	1:1	0.438	26.17	
2592.99	518598	Mid	NR Band n41	100	18.05	0	DFT-s-OFDM QPSK	1	1	15	Back	1:1	0.156	26.12	25.63
2592.99	518598	Mid	NR Band n41	100	18.13	0	DFT-s-OFDM QPSK	135	0	15	Back	1:1	0.178	25.63	
2592.99	518598	Mid	NR Band n41	100	18.00	0	CP-OFDM QPSK	1	1	15	Back	1:1	0.151	26.21	

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

Table A-12
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]
3750.00	650000	Low	NR Band n77	100	17.40	0	DFT-s-OFDM QPSK	1	1	15	Back	1:1	0.213	24.12	23.97
3750.00	650000	Low	NR Band n77	100	17.41	0	DFT-s-OFDM QPSK	135	0	15	Back	1:1	0.221	23.97	
3750.00	650000	Low	NR Band n77	100	17.22	0	CP-OFDM QPSK	1	1	15	Back	1:1	0.206	24.08	

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

Table A-13
DSI = 2 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	23.81	10	Back	N/A	1:1	0.589	26.11	
820.10	564	CDMA BC10 (§90S)	EVDO Rev. 0	23.81	10	Front	N/A	1:1	0.216	30.47	
820.10	564	CDMA BC10 (§90S)	EVDO Rev. 0	23.81	10	Bottom	N/A	1:1	0.271	29.48	26.11
820.10	564	CDMA BC10 (§90S)	EVDO Rev. 0	23.81	10	Right	N/A	1:1	0.264	29.59	
820.10	564	CDMA BC10 (§90S)	EVDO Rev. 0	23.81	10	Left	N/A	1:1	0.115	33.20	
824.70	1013	CDMA BC0 (§22H)	EVDO Rev. 0	23.92	10	Back	N/A	1:1	0.638	25.87	
836.52	384	CDMA BC0 (§22H)	EVDO Rev. 0	23.98	10	Back	N/A	1:1	0.629	25.99	
848.31	777	CDMA BC0 (§22H)	EVDO Rev. 0	23.65	10	Back	N/A	1:1	0.606	25.83	
836.52	384	CDMA BC0 (§22H)	EVDO Rev. 0	23.98	10	Front	N/A	1:1	0.191	31.17	25.83
836.52	384	CDMA BC0 (§22H)	EVDO Rev. 0	23.98	10	Bottom	N/A	1:1	0.298	29.24	
836.52	384	CDMA BC0 (§22H)	EVDO Rev. 0	23.98	10	Right	N/A	1:1	0.259	29.85	
836.52	384	CDMA BC0 (§22H)	EVDO Rev. 0	23.98	10	Left	N/A	1:1	0.125	33.01	
1880.00	600	PCS CDMA	EVDO Rev. 0	19.35	10	Back	N/A	1:1	0.302	24.55	
1880.00	600	PCS CDMA	EVDO Rev. 0	19.35	10	Front	N/A	1:1	0.098	29.44	
1880.00	600	PCS CDMA	EVDO Rev. 0	19.35	10	Bottom	N/A	1:1	0.282	24.85	24.55
1880.00	600	PCS CDMA	EVDO Rev. 0	19.35	10	Right	N/A	1:1	0.034	34.04	
1880.00	600	PCS CDMA	EVDO Rev. 0	19.35	10	Left	N/A	1:1	0.068	31.02	
824.20	128	GSM 850	GPRS	28.81	10	Back	4	1:2.076	0.715	27.09	
836.60	190	GSM 850	GPRS	29.27	10	Back	4	1:2.076	0.686	27.73	
848.80	251	GSM 850	GPRS	28.71	10	Back	4	1:2.076	0.646	27.43	
836.60	190	GSM 850	GPRS	29.27	10	Front	4	1:2.076	0.228	32.51	27.09
836.60	190	GSM 850	GPRS	29.27	10	Bottom	4	1:2.076	0.264	31.87	
836.60	190	GSM 850	GPRS	29.27	10	Right	4	1:2.076	0.303	31.27	
836.60	190	GSM 850	GPRS	29.27	10	Left	4	1:2.076	0.152	34.27	
1850.20	512	GSM 1900	GPRS	27.34	10	Back	3	1:2.76	0.782	23.98	
1880.00	661	GSM 1900	GPRS	27.39	10	Back	3	1:2.76	0.622	25.02	
1909.80	810	GSM 1900	GPRS	27.03	10	Back	3	1:2.76	0.506	25.56	
1880.00	661	GSM 1900	GPRS	27.39	10	Front	3	1:2.76	0.161	30.89	23.98
1880.00	661	GSM 1900	GPRS	27.39	10	Bottom	3	1:2.76	0.507	25.91	
1880.00	661	GSM 1900	GPRS	27.39	10	Right	3	1:2.76	0.060	35.18	
1880.00	661	GSM 1900	GPRS	27.39	10	Left	3	1:2.76	0.126	31.96	
836.60	4183	UMTS 850	RMC	23.63	10	Back	N/A	1:1	0.390	27.72	
836.60	4183	UMTS 850	RMC	23.63	10	Front	N/A	1:1	0.181	31.05	
836.60	4183	UMTS 850	RMC	23.63	10	Bottom	N/A	1:1	0.230	30.01	27.72
836.60	4183	UMTS 850	RMC	23.63	10	Right	N/A	1:1	0.276	29.22	
836.60	4183	UMTS 850	RMC	23.63	10	Left	N/A	1:1	0.135	32.33	
1712.40	1312	UMTS 1750	RMC	20.39	10	Back	N/A	1:1	0.434	24.02	
1732.40	1412	UMTS 1750	RMC	20.88	10	Back	N/A	1:1	0.593	23.15	
1752.60	1513	UMTS 1750	RMC	21.00	10	Back	N/A	1:1	0.825	21.84	
1752.60	1513	UMTS 1750	RMC	21.00	10	Front	N/A	1:1	0.300	26.23	21.84
1752.60	1513	UMTS 1750	RMC	21.00	10	Bottom	N/A	1:1	0.494	24.06	
1752.60	1513	UMTS 1750	RMC	21.00	10	Right	N/A	1:1	0.132	29.79	
1752.60	1513	UMTS 1750	RMC	21.00	10	Left	N/A	1:1	0.212	27.74	
1880.00	9400	UMTS 1900	RMC	20.46	10	Back	N/A	1:1	0.395	24.49	
1880.00	9400	UMTS 1900	RMC	20.46	10	Front	N/A	1:1	0.125	29.49	
1880.00	9400	UMTS 1900	RMC	20.46	10	Bottom	N/A	1:1	0.356	24.95	24.49
1880.00	9400	UMTS 1900	RMC	20.46	10	Right	N/A	1:1	0.042	34.23	
1880.00	9400	UMTS 1900	RMC	20.46	10	Left	N/A	1:1	0.088	31.02	

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

Table A-14
DSI = 2 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)	PLimit	Minimum PLimit
MHz	Ch.												(W/kg)	[dBm]	[dBm]
680.50	133297	Mid	LTE Band 71	20	24.85	0	QPSK	1	0	10	Back	1:1	0.400	28.83	28.74
680.50	133297	Mid	LTE Band 71	20	24.04	1	QPSK	50	0	10	Back	1:1	0.339	28.74	
680.50	133297	Mid	LTE Band 71	20	24.85	0	QPSK	1	0	10	Front	1:1	0.224	31.35	
680.50	133297	Mid	LTE Band 71	20	24.04	1	QPSK	50	0	10	Front	1:1	0.185	31.37	
680.50	133297	Mid	LTE Band 71	20	24.85	0	QPSK	1	0	10	Bottom	1:1	0.107	34.56	
680.50	133297	Mid	LTE Band 71	20	24.04	1	QPSK	50	0	10	Bottom	1:1	0.089	34.55	
680.50	133297	Mid	LTE Band 71	20	24.85	0	QPSK	1	0	10	Right	1:1	0.407	28.75	
680.50	133297	Mid	LTE Band 71	20	24.04	1	QPSK	50	0	10	Right	1:1	0.332	28.83	
680.50	133297	Mid	LTE Band 71	20	24.85	0	QPSK	1	0	10	Left	1:1	0.295	30.15	
680.50	133297	Mid	LTE Band 71	20	24.04	1	QPSK	50	0	10	Left	1:1	0.222	30.58	
707.50	23095	Mid	LTE Band 12	10	22.60	0	QPSK	1	0	10	Back	1:1	0.275	28.21	27.87
707.50	23095	Mid	LTE Band 12	10	21.65	1	QPSK	25	0	10	Back	1:1	0.223	28.17	
707.50	23095	Mid	LTE Band 12	10	22.60	0	QPSK	1	0	10	Front	1:1	0.145	30.99	
707.50	23095	Mid	LTE Band 12	10	21.65	1	QPSK	25	0	10	Front	1:1	0.117	30.97	
707.50	23095	Mid	LTE Band 12	10	22.60	0	QPSK	1	0	10	Bottom	1:1	0.097	32.73	
707.50	23095	Mid	LTE Band 12	10	21.65	1	QPSK	25	0	10	Bottom	1:1	0.079	32.67	
707.50	23095	Mid	LTE Band 12	10	22.60	0	QPSK	1	0	10	Right	1:1	0.297	27.87	
707.50	23095	Mid	LTE Band 12	10	21.65	1	QPSK	25	0	10	Right	1:1	0.238	27.88	
707.50	23095	Mid	LTE Band 12	10	22.60	0	QPSK	1	0	10	Left	1:1	0.146	30.96	
707.50	23095	Mid	LTE Band 12	10	21.65	1	QPSK	25	0	10	Left	1:1	0.125	30.68	
782.00	23230	Mid	LTE Band 13	10	23.14	0	QPSK	1	49	10	Back	1:1	0.345	27.76	27.71
782.00	23230	Mid	LTE Band 13	10	22.13	1	QPSK	25	25	10	Back	1:1	0.277	27.71	
782.00	23230	Mid	LTE Band 13	10	23.14	0	QPSK	1	49	10	Front	1:1	0.144	31.56	
782.00	23230	Mid	LTE Band 13	10	22.13	1	QPSK	25	25	10	Front	1:1	0.125	31.16	
782.00	23230	Mid	LTE Band 13	10	23.14	0	QPSK	1	49	10	Bottom	1:1	0.168	30.89	
782.00	23230	Mid	LTE Band 13	10	22.13	1	QPSK	25	25	10	Bottom	1:1	0.135	30.83	
782.00	23230	Mid	LTE Band 13	10	23.14	0	QPSK	1	49	10	Right	1:1	0.246	29.23	
782.00	23230	Mid	LTE Band 13	10	22.13	1	QPSK	25	25	10	Right	1:1	0.215	28.81	
782.00	23230	Mid	LTE Band 13	10	23.14	0	QPSK	1	49	10	Left	1:1	0.109	32.77	
782.00	23230	Mid	LTE Band 13	10	22.13	1	QPSK	25	25	10	Left	1:1	0.098	32.22	
793.00	23330	Mid	LTE Band 14	10	24.52	0	QPSK	1	0	10	Back	1:1	0.518	27.38	27.27
793.00	23330	Mid	LTE Band 14	10	23.54	1	QPSK	25	12	10	Back	1:1	0.424	27.27	
793.00	23330	Mid	LTE Band 14	10	24.52	0	QPSK	1	0	10	Front	1:1	0.183	31.90	
793.00	23330	Mid	LTE Band 14	10	23.54	1	QPSK	25	12	10	Front	1:1	0.145	31.93	
793.00	23330	Mid	LTE Band 14	10	24.52	0	QPSK	1	0	10	Bottom	1:1	0.224	31.02	
793.00	23330	Mid	LTE Band 14	10	23.54	1	QPSK	25	12	10	Bottom	1:1	0.177	31.06	
793.00	23330	Mid	LTE Band 14	10	24.52	0	QPSK	1	0	10	Right	1:1	0.282	30.02	
793.00	23330	Mid	LTE Band 14	10	23.54	1	QPSK	25	12	10	Right	1:1	0.228	29.96	
793.00	23330	Mid	LTE Band 14	10	24.52	0	QPSK	1	0	10	Left	1:1	0.133	33.28	
793.00	23330	Mid	LTE Band 14	10	23.54	1	QPSK	25	12	10	Left	1:1	0.107	33.25	
831.50	26865	Mid	LTE Band 26 (Cell)	15	23.97	0	QPSK	1	74	10	Back	1:1	0.454	27.40	27.40
831.50	26865	Mid	LTE Band 26 (Cell)	15	23.05	1	QPSK	36	37	10	Back	1:1	0.344	27.68	
831.50	26865	Mid	LTE Band 26 (Cell)	15	23.97	0	QPSK	1	74	10	Front	1:1	0.144	32.39	
831.50	26865	Mid	LTE Band 26 (Cell)	15	23.05	1	QPSK	36	37	10	Front	1:1	0.124	32.12	
831.50	26865	Mid	LTE Band 26 (Cell)	15	23.97	0	QPSK	1	74	10	Bottom	1:1	0.260	29.82	
831.50	26865	Mid	LTE Band 26 (Cell)	15	23.05	1	QPSK	36	37	10	Bottom	1:1	0.205	29.93	
831.50	26865	Mid	LTE Band 26 (Cell)	15	23.97	0	QPSK	1	74	10	Right	1:1	0.188	31.23	
831.50	26865	Mid	LTE Band 26 (Cell)	15	23.05	1	QPSK	36	37	10	Right	1:1	0.167	30.82	
831.50	26865	Mid	LTE Band 26 (Cell)	15	23.97	0	QPSK	1	74	10	Left	1:1	0.098	34.06	
831.50	26865	Mid	LTE Band 26 (Cell)	15	23.05	1	QPSK	36	37	10	Left	1:1	0.088	33.61	
836.50	20525	Mid	LTE Band 5 (Cell)	10	23.14	0	QPSK	1	49	10	Back	1:1	0.319	28.10	28.10
836.50	20525	Mid	LTE Band 5 (Cell)	10	22.26	1	QPSK	25	12	10	Back	1:1	0.222	28.80	
836.50	20525	Mid	LTE Band 5 (Cell)	10	23.14	0	QPSK	1	49	10	Front	1:1	0.149	31.41	
836.50	20525	Mid	LTE Band 5 (Cell)	10	22.26	1	QPSK	25	12	10	Front	1:1	0.126	31.26	
836.50	20525	Mid	LTE Band 5 (Cell)	10	23.14	0	QPSK	1	49	10	Bottom	1:1	0.224	29.64	
836.50	20525	Mid	LTE Band 5 (Cell)	10	22.26	1	QPSK	25	12	10	Bottom	1:1	0.177	29.78	
836.50	20525	Mid	LTE Band 5 (Cell)	10	23.14	0	QPSK	1	49	10	Right	1:1	0.202	30.09	
836.50	20525	Mid	LTE Band 5 (Cell)	10	22.26	1	QPSK	25	12	10	Right	1:1	0.170	29.96	
836.50	20525	Mid	LTE Band 5 (Cell)	10	23.14	0	QPSK	1	49	10	Left	1:1	0.107	32.85	
836.50	20525	Mid	LTE Band 5 (Cell)	10	22.26	1	QPSK	25	12	10	Left	1:1	0.091	32.67	

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

Table A-15
DSI = 2 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)	PLimit	Minimum PLimit
MHz	Ch.												(W/kg)	[dBm]	[dBm]
1770.00	132572	High	LTE Band 66 (AWS)	20	21.06	0	QPSK	1	99	10	Back	1:1	0.407	24.96	23.93
1720.00	132072	Low	LTE Band 66 (AWS)	20	21.02	0	QPSK	50	25	10	Back	1:1	0.338	25.73	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	20.78	0	QPSK	50	25	10	Back	1:1	0.484	23.93	
1770.00	132572	High	LTE Band 66 (AWS)	20	20.88	0	QPSK	50	0	10	Back	1:1	0.496	23.93	
1770.00	132572	High	LTE Band 66 (AWS)	20	21.06	0	QPSK	1	99	10	Front	1:1	0.285	26.51	
1770.00	132572	High	LTE Band 66 (AWS)	20	21.07	0	QPSK	50	50	10	Front	1:1	0.302	26.27	
1770.00	132572	High	LTE Band 66 (AWS)	20	21.06	0	QPSK	1	99	10	Bottom	1:1	0.371	25.37	
1770.00	132572	High	LTE Band 66 (AWS)	20	21.07	0	QPSK	50	50	10	Bottom	1:1	0.371	25.38	
1770.00	132572	High	LTE Band 66 (AWS)	20	21.06	0	QPSK	1	99	10	Right	1:1	0.104	30.89	
1770.00	132572	High	LTE Band 66 (AWS)	20	21.07	0	QPSK	50	50	10	Right	1:1	0.109	30.70	
1770.00	132572	High	LTE Band 66 (AWS)	20	21.06	0	QPSK	1	99	10	Left	1:1	0.300	26.29	
1770.00	132572	High	LTE Band 66 (AWS)	20	21.07	0	QPSK	50	50	10	Left	1:1	0.306	26.21	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	19.67	0	QPSK	1	50	10	Back	1:1	0.348	24.25	24.17
1882.50	26365	Mid	LTE Band 25 (PCS)	20	19.77	0	QPSK	50	25	10	Back	1:1	0.353	24.29	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	19.67	0	QPSK	1	50	10	Front	1:1	0.132	28.46	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	19.77	0	QPSK	50	25	10	Front	1:1	0.132	28.56	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	19.67	0	QPSK	1	50	10	Bottom	1:1	0.351	24.22	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	19.77	0	QPSK	50	25	10	Bottom	1:1	0.363	24.17	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	19.67	0	QPSK	1	50	10	Right	1:1	0.048	32.86	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	19.77	0	QPSK	50	25	10	Right	1:1	0.049	32.87	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	19.67	0	QPSK	1	50	10	Left	1:1	0.086	30.33	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	19.77	0	QPSK	50	25	10	Left	1:1	0.083	30.58	
2310.00	27710	Mid	LTE Band 30	10	18.75	0	QPSK	1	0	10	Back	1:1	0.571	21.18	20.96
2310.00	27710	Mid	LTE Band 30	10	18.71	0	QPSK	25	0	10	Back	1:1	0.596	20.96	
2310.00	27710	Mid	LTE Band 30	10	18.75	0	QPSK	1	0	10	Front	1:1	0.105	28.54	
2310.00	27710	Mid	LTE Band 30	10	18.71	0	QPSK	25	0	10	Front	1:1	0.105	28.50	
2310.00	27710	Mid	LTE Band 30	10	18.75	0	QPSK	1	0	10	Top	1:1	0.052	31.59	
2310.00	27710	Mid	LTE Band 30	10	18.71	0	QPSK	25	0	10	Top	1:1	0.053	31.47	
2310.00	27710	Mid	LTE Band 30	10	18.75	0	QPSK	1	0	10	Left	1:1	0.361	23.17	
2310.00	27710	Mid	LTE Band 30	10	18.71	0	QPSK	25	0	10	Left	1:1	0.342	23.37	
2510.00	20850	Low	LTE Band 7	20	18.71	0	QPSK	1	99	10	Back	1:1	0.803	19.66	19.26
2535.00	21100	Mid	LTE Band 7	20	19.08	0	QPSK	1	99	10	Back	1:1	0.649	20.96	
2560.00	21350	High	LTE Band 7	20	19.01	0	QPSK	1	0	10	Back	1:1	0.503	21.99	
2510.00	20850	Low	LTE Band 7	20	18.65	0	QPSK	50	50	10	Back	1:1	0.868	19.26	
2535.00	21100	Mid	LTE Band 7	20	19.05	0	QPSK	50	50	10	Back	1:1	0.703	20.58	
2560.00	21350	High	LTE Band 7	20	19.04	0	QPSK	50	25	10	Back	1:1	0.515	21.92	
2560.00	21350	High	LTE Band 7	20	18.91	0	QPSK	100	0	10	Back	1:1	0.503	21.89	
2535.00	21100	Mid	LTE Band 7	20	19.08	0	QPSK	1	99	10	Front	1:1	0.128	28.01	
2535.00	21100	Mid	LTE Band 7	20	19.05	0	QPSK	50	50	10	Front	1:1	0.128	27.98	
2535.00	21100	Mid	LTE Band 7	20	19.08	0	QPSK	1	99	10	Top	1:1	0.066	30.88	
2535.00	21100	Mid	LTE Band 7	20	19.05	0	QPSK	50	50	10	Top	1:1	0.070	30.60	
2535.00	21100	Mid	LTE Band 7	20	19.08	0	QPSK	1	99	10	Left	1:1	0.345	23.70	
2535.00	21100	Mid	LTE Band 7	20	19.05	0	QPSK	50	50	10	Left	1:1	0.349	23.62	

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

Table A-16
DSI = 2 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)	PLimit	Minimum PLimit
MHz	Ch.												(W/kg)	[dBm]	[dBm]
3690.00	56640	High	LTE Band 48	20	20.93	0	QPSK	1	99	10	Back	1:1.58	0.462	22.30	20.02
3690.00	56640	High	LTE Band 48	20	21.00	0	QPSK	50	25	10	Back	1:1.58	0.461	22.38	
3690.00	56640	High	LTE Band 48	20	20.93	0	QPSK	1	99	10	Front	1:1.58	0.320	23.89	
3690.00	56640	High	LTE Band 48	20	21.00	0	QPSK	50	25	10	Front	1:1.58	0.323	23.92	
3560.00	55340	Low	LTE Band 48	20	20.70	0	QPSK	1	0	10	Top	1:1.58	0.624	20.76	
3603.30	55773	Low-Mid	LTE Band 48	20	20.21	0	QPSK	1	0	10	Top	1:1.58	0.570	20.67	
3646.70	56207	Mid-High	LTE Band 48	20	20.21	0	QPSK	1	50	10	Top	1:1.58	0.616	20.33	
3690.00	56640	High	LTE Band 48	20	20.93	0	QPSK	1	99	10	Top	1:1.58	0.780	20.02	
3560.00	55340	Low	LTE Band 48	20	20.77	0	QPSK	50	25	10	Top	1:1.58	0.639	20.73	
3603.30	55773	Low-Mid	LTE Band 48	20	20.18	0	QPSK	50	0	10	Top	1:1.58	0.575	20.60	
3646.70	56207	Mid-High	LTE Band 48	20	20.33	0	QPSK	50	25	10	Top	1:1.58	0.621	20.41	
3690.00	56640	High	LTE Band 48	20	21.00	0	QPSK	50	25	10	Top	1:1.58	0.769	20.15	
3690.00	56640	High	LTE Band 48	20	20.90	0	QPSK	100	0	10	Top	1:1.58	0.754	20.14	
3690.00	56640	High	LTE Band 48	20	20.93	0	QPSK	1	99	10	Left	1:1.58	0.222	25.48	
3690.00	56640	High	LTE Band 48	20	21.00	0	QPSK	50	25	10	Left	1:1.58	0.215	25.69	
2593.00	40620	Mid	LTE Band 41	20	20.76	0	QPSK	1	50	10	Back	1:1.58	0.387	22.90	22.83
2593.00	40620	Mid	LTE Band 41	20	20.77	0	QPSK	50	25	10	Back	1:1.58	0.394	22.83	
2593.00	40620	Mid	LTE Band 41	20	20.76	0	QPSK	1	50	10	Front	1:1.58	0.116	28.13	
2593.00	40620	Mid	LTE Band 41	20	20.77	0	QPSK	50	25	10	Front	1:1.58	0.117	28.10	
2593.00	40620	Mid	LTE Band 41	20	20.76	0	QPSK	1	50	10	Top	1:1.58	0.051	31.70	
2593.00	40620	Mid	LTE Band 41	20	20.77	0	QPSK	50	25	10	Top	1:1.58	0.052	31.62	
2593.00	40620	Mid	LTE Band 41	20	20.76	0	QPSK	1	50	10	Left	1:1.58	0.362	23.19	
2593.00	40620	Mid	LTE Band 41	20	20.77	0	QPSK	25	25	10	Left	1:1.58	0.362	23.20	

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

Table A-17
DSI = 2 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 (1g)	PLimit	Minimum PLimit
MHz	Ch.												(W/kg)	[dBm]	[dBm]
680.50	136100	Mid	NR Band n71	20	23.40	0	DFT-s-OFDM QPSK	1	53	10	Back	1:1	0.291	28.76	
680.50	136100	Mid	NR Band n71	20	23.35	0	DFT-s-OFDM QPSK	50	28	10	Back	1:1	0.302	28.55	
680.50	136100	Mid	NR Band n71	20	23.40	0	DFT-s-OFDM QPSK	1	53	10	Front	1:1	0.139	31.97	
680.50	136100	Mid	NR Band n71	20	23.35	0	DFT-s-OFDM QPSK	50	28	10	Front	1:1	0.145	31.74	
680.50	136100	Mid	NR Band n71	20	23.40	0	DFT-s-OFDM QPSK	1	53	10	Bottom	1:1	0.099	33.44	
680.50	136100	Mid	NR Band n71	20	23.35	0	DFT-s-OFDM QPSK	50	28	10	Bottom	1:1	0.102	33.26	28.21
680.50	136100	Mid	NR Band n71	20	23.40	0	DFT-s-OFDM QPSK	1	53	10	Right	1:1	0.280	28.93	
680.50	136100	Mid	NR Band n71	20	23.35	0	DFT-s-OFDM QPSK	50	28	10	Right	1:1	0.277	28.93	
680.50	136100	Mid	NR Band n71	20	23.40	0	DFT-s-OFDM QPSK	1	53	10	Left	1:1	0.177	30.92	
680.50	136100	Mid	NR Band n71	20	23.35	0	DFT-s-OFDM QPSK	50	28	10	Left	1:1	0.166	31.15	
680.50	136100	Mid	NR Band n71	20	21.81	1.5	CP-OFDM QPSK	1	1	10	Back	1:1	0.229	28.21	
836.50	167300	Mid	NR Band n5	20	23.62	0	DFT-s-OFDM QPSK	1	53	10	Back	1:1	0.427	27.32	
836.50	167300	Mid	NR Band n5	20	23.43	0	DFT-s-OFDM QPSK	50	28	10	Back	1:1	0.427	27.13	
836.50	167300	Mid	NR Band n5	20	23.62	0	DFT-s-OFDM QPSK	1	53	10	Front	1:1	0.149	31.89	
836.50	167300	Mid	NR Band n5	20	23.43	0	DFT-s-OFDM QPSK	50	28	10	Front	1:1	0.151	31.64	
836.50	167300	Mid	NR Band n5	20	23.62	0	DFT-s-OFDM QPSK	1	53	10	Bottom	1:1	0.201	30.59	
836.50	167300	Mid	NR Band n5	20	23.43	0	DFT-s-OFDM QPSK	50	28	10	Bottom	1:1	0.200	30.42	27.13
836.50	167300	Mid	NR Band n5	20	23.62	0	DFT-s-OFDM QPSK	1	53	10	Right	1:1	0.182	31.02	
836.50	167300	Mid	NR Band n5	20	23.43	0	DFT-s-OFDM QPSK	50	28	10	Right	1:1	0.181	30.85	
836.50	167300	Mid	NR Band n5	20	23.62	0	DFT-s-OFDM QPSK	1	53	10	Left	1:1	0.099	33.66	
836.50	167300	Mid	NR Band n5	20	23.43	0	DFT-s-OFDM QPSK	50	28	10	Left	1:1	0.100	33.43	
836.50	167300	Mid	NR Band n5	20	22.15	1.5	CP-OFDM QPSK	1	1	10	Back	1:1	0.235	28.44	
1745.00	349000	Mid	NR Band n66	20	21.58	0	DFT-s-OFDM QPSK	1	104	10	Back	1:1	0.427	25.28	
1745.00	349000	Mid	NR Band n66	20	21.61	0	DFT-s-OFDM QPSK	50	0	10	Back	1:1	0.402	25.57	
1745.00	349000	Mid	NR Band n66	20	21.58	0	DFT-s-OFDM QPSK	1	104	10	Front	1:1	0.222	28.12	
1745.00	349000	Mid	NR Band n66	20	21.61	0	DFT-s-OFDM QPSK	50	0	10	Front	1:1	0.282	27.11	
1745.00	349000	Mid	NR Band n66	20	21.58	0	DFT-s-OFDM QPSK	1	104	10	Bottom	1:1	0.411	25.44	
1745.00	349000	Mid	NR Band n66	20	21.61	0	DFT-s-OFDM QPSK	50	0	10	Bottom	1:1	0.371	25.92	25.28
1745.00	349000	Mid	NR Band n66	20	21.58	0	DFT-s-OFDM QPSK	1	104	10	Right	1:1	0.070	33.13	
1745.00	349000	Mid	NR Band n66	20	21.61	0	DFT-s-OFDM QPSK	50	0	10	Right	1:1	0.089	32.12	
1745.00	349000	Mid	NR Band n66	20	21.58	0	DFT-s-OFDM QPSK	1	104	10	Left	1:1	0.241	27.76	
1745.00	349000	Mid	NR Band n66	20	21.61	0	DFT-s-OFDM QPSK	50	0	10	Left	1:1	0.286	27.05	
1745.00	349000	Mid	NR Band n66	20	21.55	0	CP-OFDM QPSK	1	1	10	Back	1:1	0.400	25.53	
1860.00	372000	Low	NR Band n25	20	21.33	0	DFT-s-OFDM QPSK	1	104	10	Back	1:1	0.469	24.62	
1860.00	372000	Low	NR Band n25	20	21.38	0	DFT-s-OFDM QPSK	50	28	10	Back	1:1	0.512	24.29	
1860.00	372000	Low	NR Band n25	20	21.33	0	DFT-s-OFDM QPSK	1	104	10	Front	1:1	0.159	29.32	
1860.00	372000	Low	NR Band n25	20	21.38	0	DFT-s-OFDM QPSK	50	28	10	Front	1:1	0.164	29.23	
1860.00	372000	Low	NR Band n25	20	21.33	0	DFT-s-OFDM QPSK	1	104	10	Bottom	1:1	0.430	25.00	
1860.00	372000	Low	NR Band n25	20	21.38	0	DFT-s-OFDM QPSK	50	28	10	Bottom	1:1	0.461	24.74	23.79
1860.00	372000	Low	NR Band n25	20	21.33	0	DFT-s-OFDM QPSK	1	104	10	Right	1:1	0.050	34.34	
1860.00	372000	Low	NR Band n25	20	21.38	0	DFT-s-OFDM QPSK	50	28	10	Right	1:1	0.052	34.22	
1860.00	372000	Low	NR Band n25	20	21.33	0	DFT-s-OFDM QPSK	1	104	10	Left	1:1	0.110	30.92	
1860.00	372000	Low	NR Band n25	20	21.38	0	DFT-s-OFDM QPSK	50	28	10	Left	1:1	0.112	30.89	
1860.00	372000	Low	NR Band n25	20	21.23	0	CP-OFDM QPSK	1	1	10	Back	1:1	0.554	23.79	
2592.99	518598	Mid	NR Band n41	100	18.05	0	DFT-s-OFDM QPSK	1	1	10	Back	1:1	0.289	23.44	
2592.99	518598	Mid	NR Band n41	100	18.13	0	DFT-s-OFDM QPSK	135	0	10	Back	1:1	0.329	22.96	
2592.99	518598	Mid	NR Band n41	100	18.05	0	DFT-s-OFDM QPSK	1	1	10	Front	1:1	0.053	30.81	
2592.99	518598	Mid	NR Band n41	100	18.13	0	DFT-s-OFDM QPSK	135	0	10	Front	1:1	0.061	30.28	
2592.99	518598	Mid	NR Band n41	100	18.05	0	DFT-s-OFDM QPSK	1	1	10	Top	1:1	0.030	33.28	22.96
2592.99	518598	Mid	NR Band n41	100	18.13	0	DFT-s-OFDM QPSK	135	0	10	Top	1:1	0.033	32.94	
2592.99	518598	Mid	NR Band n41	100	18.05	0	DFT-s-OFDM QPSK	1	1	10	Left	1:1	0.122	27.19	
2592.99	518598	Mid	NR Band n41	100	18.13	0	DFT-s-OFDM QPSK	135	0	10	Left	1:1	0.174	25.72	
2592.99	518598	Mid	NR Band n41	100	18.00	0	CP-OFDM QPSK	1	1	10	Back	1:1	0.314	23.03	

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

Table A-18
DSI = 2 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 (1g)	PLimit	Minimum PLimit
MHz	Ch.												(W/kg)	[dBm]	[dBm]
3750.00	650000	Low	NR Band n77	100	17.40	0	DFT-s-OFDM QPSK	1	1	10	Back	1:1	0.429	21.08	18.82
3930.00	662000	High	NR Band n77	100	17.39	0	DFT-s-OFDM QPSK	1	1	10	Back	1:1	0.327	22.24	
3750.00	650000	Low	NR Band n77	100	17.41	0	DFT-s-OFDM QPSK	135	0	10	Back	1:1	0.434	21.04	
3930.00	662000	High	NR Band n77	100	17.25	0	DFT-s-OFDM QPSK	135	0	10	Back	1:1	0.295	22.55	
3750.00	650000	Low	NR Band n77	100	17.25	0	DFT-s-OFDM QPSK	270	0	10	Back	1:1	0.405	21.18	
3750.00	650000	Low	NR Band n77	100	17.40	0	DFT-s-OFDM QPSK	1	1	10	Front	1:1	0.271	23.07	
3750.00	650000	Low	NR Band n77	100	17.41	0	DFT-s-OFDM QPSK	135	0	10	Front	1:1	0.274	23.03	
3750.00	650000	Low	NR Band n77	100	17.40	0	DFT-s-OFDM QPSK	1	1	10	Top	1:1	0.691	19.01	
3930.00	662000	High	NR Band n77	100	17.39	0	DFT-s-OFDM QPSK	1	1	10	Top	1:1	0.585	19.72	
3750.00	650000	Low	NR Band n77	100	17.41	0	DFT-s-OFDM QPSK	135	0	10	Top	1:1	0.720	18.84	
3930.00	662000	High	NR Band n77	100	17.25	0	DFT-s-OFDM QPSK	135	0	10	Top	1:1	0.528	20.02	
3750.00	650000	Low	NR Band n77	100	17.25	0	DFT-s-OFDM QPSK	270	0	10	Top	1:1	0.697	18.82	
3750.00	650000	Low	NR Band n77	100	17.40	0	DFT-s-OFDM QPSK	1	1	10	Left	1:1	0.193	24.54	
3750.00	650000	Low	NR Band n77	100	17.41	0	DFT-s-OFDM QPSK	135	0	10	Left	1:1	0.194	24.53	
3750.00	650000	Low	NR Band n77	100	17.22	0	CP-OFDM QPSK	1	1	10	Top	1:1	0.668	18.97	

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

Table A-19
DSI = 0 P_{Limit} Calculations – 2G/3G Phablet SAR

MEASUREMENT RESULTS											
FREQUENCY		Mode/Band	Service	Conducted Power [dBm]	Spacing (mm)	Side	# of GPRS Slots	Duty Cycle	SAR (10g)	PLimit	Minimum PLimit
MHz	Ch.								(W/kg)	[dBm]	[dBm]
820.10	564	CDMA BC10 (§90S)	TDSO/SO32	24.76	7	Back	N/A	1:1	0.322	33.66	
820.10	564	CDMA BC10 (§90S)	TDSO/SO32	24.76	0	Front	N/A	1:1	0.324	33.63	
820.10	564	CDMA BC10 (§90S)	TDSO/SO32	24.76	0	Bottom	N/A	1:1	0.583	31.08	31.08
820.10	564	CDMA BC10 (§90S)	TDSO/SO32	24.76	0	Right	N/A	1:1	0.428	32.42	
820.10	564	CDMA BC10 (§90S)	TDSO/SO32	24.76	0	Left	N/A	1:1	0.101	38.70	
836.52	384	CDMA BC0 (§22H)	TDSO/SO32	24.88	7	Back	N/A	1:1	0.627	30.89	
836.52	384	CDMA BC0 (§22H)	TDSO/SO32	24.88	0	Front	N/A	1:1	0.496	31.90	
836.52	384	CDMA BC0 (§22H)	TDSO/SO32	24.88	0	Bottom	N/A	1:1	0.821	29.72	29.72
836.52	384	CDMA BC0 (§22H)	TDSO/SO32	24.88	0	Right	N/A	1:1	0.401	32.83	
836.52	384	CDMA BC0 (§22H)	TDSO/SO32	24.88	0	Left	N/A	1:1	0.180	36.31	
1880.00	600	PCS CDMA	TDSO/SO32	25.03	7	Back	N/A	1:1	0.853	29.70	
1880.00	600	PCS CDMA	TDSO/SO32	25.03	0	Front	N/A	1:1	1.010	28.97	
1851.25	25	PCS CDMA	TDSO/SO32	25.12	0	Bottom	N/A	1:1	2.560	25.02	
1880.00	600	PCS CDMA	TDSO/SO32	25.03	0	Bottom	N/A	1:1	2.440	25.14	25.02
1908.75	1175	PCS CDMA	TDSO/SO32	24.91	0	Bottom	N/A	1:1	2.160	25.54	
1880.00	600	PCS CDMA	TDSO/SO32	25.03	0	Right	N/A	1:1	0.114	38.44	
1880.00	600	PCS CDMA	TDSO/SO32	25.03	0	Left	N/A	1:1	0.698	30.57	
836.60	190	GSM 850	GPRS	29.27	7	Back	4	1:2.076	0.276	35.66	
836.60	190	GSM 850	GPRS	29.27	0	Front	4	1:2.076	0.627	32.10	
836.60	190	GSM 850	GPRS	29.27	0	Bottom	4	1:2.076	0.824	30.91	30.91
836.60	190	GSM 850	GPRS	29.27	0	Right	4	1:2.076	0.364	34.46	
836.60	190	GSM 850	GPRS	29.27	0	Left	4	1:2.076	0.153	38.22	
1880.00	661	GSM 1900	GPRS	27.39	7	Back	3	1:2.76	0.171	34.61	
1880.00	661	GSM 1900	GPRS	27.39	0	Front	3	1:2.76	0.511	29.86	
1880.00	661	GSM 1900	GPRS	27.39	0	Bottom	3	1:2.76	1.340	25.67	25.67
1880.00	661	GSM 1900	GPRS	27.39	0	Right	3	1:2.76	0.050	39.95	
1880.00	661	GSM 1900	GPRS	27.39	0	Left	3	1:2.76	0.297	32.21	
836.60	4183	UMTS 850	RMC	23.63	7	Back	N/A	1:1	0.179	35.08	
836.60	4183	UMTS 850	RMC	23.63	0	Front	N/A	1:1	0.432	31.25	
836.60	4183	UMTS 850	RMC	23.63	0	Bottom	N/A	1:1	0.654	29.45	29.45
836.60	4183	UMTS 850	RMC	23.63	0	Right	N/A	1:1	0.368	31.95	
836.60	4183	UMTS 850	RMC	23.63	0	Left	N/A	1:1	0.088	38.16	
1732.40	1412	UMTS 1750	RMC	23.45	7	Back	N/A	1:1	0.910	27.84	
1712.40	1312	UMTS 1750	RMC	23.35	0	Front	N/A	1:1	1.510	25.54	
1732.40	1412	UMTS 1750	RMC	23.45	0	Front	N/A	1:1	1.620	25.33	
1752.60	1513	UMTS 1750	RMC	23.48	0	Front	N/A	1:1	1.640	25.31	
1712.40	1312	UMTS 1750	RMC	23.35	0	Bottom	N/A	1:1	2.030	24.25	24.17
1732.40	1412	UMTS 1750	RMC	23.45	0	Bottom	N/A	1:1	2.120	24.17	
1752.60	1513	UMTS 1750	RMC	23.48	0	Bottom	N/A	1:1	1.770	24.98	
1732.40	1412	UMTS 1750	RMC	23.45	0	Right	N/A	1:1	0.416	31.24	
1732.40	1412	UMTS 1750	RMC	23.45	0	Left	N/A	1:1	0.999	27.43	
1880.00	9400	UMTS 1900	RMC	24.22	7	Back	N/A	1:1	0.423	31.94	
1880.00	9400	UMTS 1900	RMC	24.22	0	Front	N/A	1:1	0.612	30.33	
1852.40	9262	UMTS 1900	RMC	24.23	0	Bottom	N/A	1:1	1.290	27.10	
1880.00	9400	UMTS 1900	RMC	24.22	0	Bottom	N/A	1:1	1.330	26.96	26.96
1907.60	9538	UMTS 1900	RMC	24.21	0	Bottom	N/A	1:1	1.130	27.66	
1880.00	9400	UMTS 1900	RMC	24.22	0	Right	N/A	1:1	0.061	40.35	
1880.00	9400	UMTS 1900	RMC	24.22	0	Left	N/A	1:1	0.393	32.26	

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

Table A-20
DSI = 4, 5, or 6 P_{Limit} Calculations – 2G/3G Phablet SAR

MEASUREMENT RESULTS											
FREQUENCY		Mode/Band	Service	Conducted Power [dBm]	Spacing (mm)	Side	# of GPRS Slots	Duty Cycle	SAR (10g)	PLimit	Minimum PLimit
MHz	Ch.								(W/kg)	[dBm]	[dBm]
820.10	564	CDMA BC10 (§90S)	TDSO/SO32	24.76	0	Back	N/A	1:1	1.490	27.01	
820.10	564	CDMA BC10 (§90S)	TDSO/SO32	24.76	0	Front	N/A	1:1	0.324	33.63	
820.10	564	CDMA BC10 (§90S)	TDSO/SO32	24.76	0	Bottom	N/A	1:1	0.583	31.08	27.01
820.10	564	CDMA BC10 (§90S)	TDSO/SO32	24.76	0	Right	N/A	1:1	0.428	32.42	
820.10	564	CDMA BC10 (§90S)	TDSO/SO32	24.76	0	Left	N/A	1:1	0.101	38.70	
836.52	384	CDMA BC0 (§22H)	TDSO/SO32	24.88	0	Back	N/A	1:1	0.728	30.24	
836.52	384	CDMA BC0 (§22H)	TDSO/SO32	24.88	0	Front	N/A	1:1	0.496	31.90	
836.52	384	CDMA BC0 (§22H)	TDSO/SO32	24.88	0	Bottom	N/A	1:1	0.821	29.72	29.72
836.52	384	CDMA BC0 (§22H)	TDSO/SO32	24.88	0	Right	N/A	1:1	0.401	32.83	
836.52	384	CDMA BC0 (§22H)	TDSO/SO32	24.88	0	Left	N/A	1:1	0.180	36.31	
1880.00	600	PCS CDMA	EVDO Rev. 0	19.35	0	Back	N/A	1:1	0.973	23.45	
1880.00	600	PCS CDMA	TDSO/SO32	25.03	0	Front	N/A	1:1	1.010	28.97	
1851.25	25	PCS CDMA	TDSO/SO32	25.12	0	Bottom	N/A	1:1	2.560	25.02	
1880.00	600	PCS CDMA	TDSO/SO32	25.03	0	Bottom	N/A	1:1	2.440	25.14	23.45
1908.75	1175	PCS CDMA	TDSO/SO32	24.91	0	Bottom	N/A	1:1	2.160	25.54	
1880.00	600	PCS CDMA	TDSO/SO32	25.03	0	Right	N/A	1:1	0.114	38.44	
1880.00	600	PCS CDMA	TDSO/SO32	25.03	0	Left	N/A	1:1	0.698	30.57	
836.60	190	GSM 850	GPRS	29.27	0	Back	4	1:2.076	1.270	29.03	
836.60	190	GSM 850	GPRS	29.27	0	Front	4	1:2.076	0.627	32.10	
836.60	190	GSM 850	GPRS	29.27	0	Bottom	4	1:2.076	0.824	30.91	29.03
836.60	190	GSM 850	GPRS	29.27	0	Right	4	1:2.076	0.364	34.46	
836.60	190	GSM 850	GPRS	29.27	0	Left	4	1:2.076	0.153	38.22	
1880.00	661	GSM 1900	GPRS	27.39	0	Back	3	1:2.76	1.620	24.84	
1880.00	661	GSM 1900	GPRS	27.39	0	Front	3	1:2.76	0.511	29.86	
1880.00	661	GSM 1900	GPRS	27.39	0	Bottom	3	1:2.76	1.340	25.67	24.84
1880.00	661	GSM 1900	GPRS	27.39	0	Right	3	1:2.76	0.050	39.95	
1880.00	661	GSM 1900	GPRS	27.39	0	Left	3	1:2.76	0.297	32.21	
836.60	4183	UMTS 850	RMC	23.63	0	Back	N/A	1:1	0.922	27.96	
836.60	4183	UMTS 850	RMC	23.63	0	Front	N/A	1:1	0.432	31.25	
836.60	4183	UMTS 850	RMC	23.63	0	Bottom	N/A	1:1	0.654	29.45	27.96
836.60	4183	UMTS 850	RMC	23.63	0	Right	N/A	1:1	0.368	31.95	
836.60	4183	UMTS 850	RMC	23.63	0	Left	N/A	1:1	0.088	38.16	
1752.60	1513	UMTS 1750	RMC	21.00	0	Back	N/A	1:1	1.170	24.30	
1712.40	1312	UMTS 1750	RMC	23.35	0	Front	N/A	1:1	1.510	25.54	
1732.40	1412	UMTS 1750	RMC	23.45	0	Front	N/A	1:1	1.620	25.33	
1752.60	1513	UMTS 1750	RMC	23.48	0	Front	N/A	1:1	1.640	25.31	
1712.40	1312	UMTS 1750	RMC	23.35	0	Bottom	N/A	1:1	2.030	24.25	24.17
1732.40	1412	UMTS 1750	RMC	23.45	0	Bottom	N/A	1:1	2.120	24.17	
1752.60	1513	UMTS 1750	RMC	23.48	0	Bottom	N/A	1:1	1.770	24.98	
1732.40	1412	UMTS 1750	RMC	23.45	0	Right	N/A	1:1	0.416	31.24	
1732.40	1412	UMTS 1750	RMC	23.45	0	Left	N/A	1:1	0.999	27.43	
1880.00	9400	UMTS 1900	RMC	20.46	0	Back	N/A	1:1	0.782	25.51	
1880.00	9400	UMTS 1900	RMC	24.22	0	Front	N/A	1:1	0.612	30.33	
1852.40	9262	UMTS 1900	RMC	24.23	0	Bottom	N/A	1:1	1.290	27.10	
1880.00	9400	UMTS 1900	RMC	24.22	0	Bottom	N/A	1:1	1.330	26.96	25.51
1907.60	9538	UMTS 1900	RMC	24.21	0	Bottom	N/A	1:1	1.130	27.66	
1880.00	9400	UMTS 1900	RMC	24.22	0	Right	N/A	1:1	0.061	40.35	
1880.00	9400	UMTS 1900	RMC	24.22	0	Left	N/A	1:1	0.393	32.26	

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

Table A-21
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	24.85	0	QPSK	1	0	7	Back	1:1	0.348	33.41	31.98
680.50	133297	Mid	LTE Band 71	20	24.85	0	QPSK	1	0	0	Front	1:1	0.223	35.35	
680.50	133297	Mid	LTE Band 71	20	24.85	0	QPSK	1	0	0	Bottom	1:1	0.377	33.07	
680.50	133297	Mid	LTE Band 71	20	24.85	0	QPSK	1	0	0	Right	1:1	0.484	31.98	
680.50	133297	Mid	LTE Band 71	20	24.85	0	QPSK	1	0	0	Left	1:1	0.083	39.64	
707.50	23095	Mid	LTE Band 12	10	22.60	0	QPSK	1	0	7	Back	1:1	0.376	30.83	30.83
707.50	23095	Mid	LTE Band 12	10	22.60	0	QPSK	1	0	0	Front	1:1	0.178	34.08	
707.50	23095	Mid	LTE Band 12	10	22.60	0	QPSK	1	0	0	Bottom	1:1	0.328	31.42	
707.50	23095	Mid	LTE Band 12	10	22.60	0	QPSK	1	0	0	Right	1:1	0.324	31.47	
707.50	23095	Mid	LTE Band 12	10	22.60	0	QPSK	1	0	0	Left	1:1	0.092	36.94	
782.00	23230	Mid	LTE Band 13	10	23.14	0	QPSK	1	49	7	Back	1:1	0.370	31.44	29.97
782.00	23230	Mid	LTE Band 13	10	23.14	0	QPSK	1	49	0	Front	1:1	0.260	32.97	
782.00	23230	Mid	LTE Band 13	10	23.14	0	QPSK	1	49	0	Bottom	1:1	0.519	29.97	
782.00	23230	Mid	LTE Band 13	10	23.14	0	QPSK	1	49	0	Right	1:1	0.200	34.11	
782.00	23230	Mid	LTE Band 13	10	23.14	0	QPSK	1	49	0	Left	1:1	0.081	38.03	
793.00	23330	Mid	LTE Band 14	10	24.52	0	QPSK	1	0	7	Back	1:1	0.411	32.36	31.03
793.00	23330	Mid	LTE Band 14	10	24.52	0	QPSK	1	0	0	Front	1:1	0.341	33.17	
793.00	23330	Mid	LTE Band 14	10	24.52	0	QPSK	1	0	0	Bottom	1:1	0.559	31.03	
793.00	23330	Mid	LTE Band 14	10	24.52	0	QPSK	1	0	0	Right	1:1	0.274	34.12	
793.00	23330	Mid	LTE Band 14	10	24.52	0	QPSK	1	0	0	Left	1:1	0.113	37.97	
831.50	26865	Mid	LTE Band 26 (Cell)	15	23.97	0	QPSK	1	74	7	Back	1:1	0.393	32.01	29.42
831.50	26865	Mid	LTE Band 26 (Cell)	15	23.97	0	QPSK	1	74	0	Front	1:1	0.452	31.40	
831.50	26865	Mid	LTE Band 26 (Cell)	15	23.97	0	QPSK	1	74	0	Bottom	1:1	0.713	29.42	
831.50	26865	Mid	LTE Band 26 (Cell)	15	23.97	0	QPSK	1	74	0	Right	1:1	0.272	33.60	
831.50	26865	Mid	LTE Band 26 (Cell)	15	23.97	0	QPSK	1	74	0	Left	1:1	0.088	38.50	
836.50	20525	Mid	LTE Band 5 (Cell)	10	23.14	0	QPSK	1	49	7	Back	1:1	0.185	34.45	29.24
836.50	20525	Mid	LTE Band 5 (Cell)	10	23.14	0	QPSK	1	49	0	Front	1:1	0.400	31.10	
836.50	20525	Mid	LTE Band 5 (Cell)	10	23.14	0	QPSK	1	49	0	Bottom	1:1	0.614	29.24	
836.50	20525	Mid	LTE Band 5 (Cell)	10	23.14	0	QPSK	1	49	0	Right	1:1	0.254	33.07	
836.50	20525	Mid	LTE Band 5 (Cell)	10	23.14	0	QPSK	1	49	0	Left	1:1	0.119	36.36	
1770.00	132572	High	LTE Band 66 (AWS)	20	23.34	0	QPSK	1	99	7	Back	1:1	0.551	29.91	25.39
1770.00	132572	High	LTE Band 66 (AWS)	20	22.44	1	QPSK	50	25	7	Back	1:1	0.489	29.53	
1770.00	132572	High	LTE Band 66 (AWS)	20	23.34	0	QPSK	1	99	0	Front	1:1	1.380	25.92	
1770.00	132572	High	LTE Band 66 (AWS)	20	22.44	1	QPSK	50	25	0	Front	1:1	1.130	25.89	
1720.00	132072	Low	LTE Band 66 (AWS)	20	23.30	0	QPSK	1	50	0	Bottom	1:1	1.080	26.95	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	22.78	0	QPSK	1	99	0	Bottom	1:1	1.180	26.04	
1770.00	132572	High	LTE Band 66 (AWS)	20	23.34	0	QPSK	1	99	0	Bottom	1:1	1.560	25.39	
1770.00	132572	High	LTE Band 66 (AWS)	20	22.44	1	QPSK	50	25	0	Bottom	1:1	1.170	25.74	
1770.00	132572	High	LTE Band 66 (AWS)	20	22.35	1	QPSK	100	0	0	Bottom	1:1	0.935	26.62	
1770.00	132572	High	LTE Band 66 (AWS)	20	23.34	0	QPSK	1	99	0	Right	1:1	0.175	34.89	
1770.00	132572	High	LTE Band 66 (AWS)	20	22.44	1	QPSK	50	25	0	Right	1:1	0.152	34.60	
1770.00	132572	High	LTE Band 66 (AWS)	20	23.34	0	QPSK	1	99	0	Left	1:1	1.300	26.18	
1770.00	132572	High	LTE Band 66 (AWS)	20	22.44	1	QPSK	50	25	0	Left	1:1	1.090	26.05	

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

Table A-22
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]
1882.50	26365	Mid	LTE Band 25 (PCS)	20	23.85	0	QPSK	1	50	7	Back	1:1	0.360	32.27	24.03
1882.50	26365	Mid	LTE Band 25 (PCS)	20	22.75	1	QPSK	50	25	7	Back	1:1	0.288	32.14	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	23.85	0	QPSK	1	50	0	Front	1:1	1.070	27.54	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	22.75	1	QPSK	50	25	0	Front	1:1	0.876	27.30	
1860.00	26140	Low	LTE Band 25 (PCS)	20	23.46	0	QPSK	1	99	0	Bottom	1:1	2.190	24.03	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	23.85	0	QPSK	1	50	0	Bottom	1:1	2.120	24.57	
1905.00	26590	High	LTE Band 25 (PCS)	20	23.48	0	QPSK	1	0	0	Bottom	1:1	1.990	24.47	
1860.00	26140	Low	LTE Band 25 (PCS)	20	22.74	1	QPSK	50	25	0	Bottom	1:1	1.810	24.14	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	22.75	1	QPSK	50	25	0	Bottom	1:1	1.720	24.37	
1905.00	26590	High	LTE Band 25 (PCS)	20	22.55	1	QPSK	50	0	0	Bottom	1:1	1.620	24.43	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	22.63	1	QPSK	100	0	0	Bottom	1:1	1.650	24.43	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	23.85	0	QPSK	1	50	0	Right	1:1	0.105	37.62	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	22.75	1	QPSK	50	25	0	Right	1:1	0.088	37.28	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	23.85	0	QPSK	1	50	0	Left	1:1	0.645	29.73	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	22.75	1	QPSK	50	25	0	Left	1:1	0.517	29.59	
2310.00	27710	Mid	LTE Band 30	10	22.75	0	QPSK	1	49	10	Back	1:1	0.489	29.84	28.09
2310.00	27710	Mid	LTE Band 30	10	21.80	1	QPSK	25	12	10	Back	1:1	0.397	29.79	
2310.00	27710	Mid	LTE Band 30	10	22.75	0	QPSK	1	49	0	Front	1:1	0.719	28.16	
2310.00	27710	Mid	LTE Band 30	10	21.80	1	QPSK	25	12	0	Front	1:1	0.587	28.09	
2310.00	27710	Mid	LTE Band 30	10	22.75	0	QPSK	1	49	0	Top	1:1	0.185	34.06	
2310.00	27710	Mid	LTE Band 30	10	21.80	1	QPSK	25	12	0	Top	1:1	0.151	33.99	
2310.00	27710	Mid	LTE Band 30	10	22.75	0	QPSK	1	49	6	Left	1:1	0.721	28.15	
2310.00	27710	Mid	LTE Band 30	10	21.80	1	QPSK	25	12	6	Left	1:1	0.583	28.12	
2510.00	20850	Low	LTE Band 7	20	23.55	0	QPSK	1	0	10	Back	1:1	1.300	26.39	26.39
2510.00	20850	Low	LTE Band 7	20	22.63	1	QPSK	50	0	10	Back	1:1	1.050	26.40	
2510.00	20850	Low	LTE Band 7	20	23.55	0	QPSK	1	0	0	Front	1:1	1.130	27.00	
2510.00	20850	Low	LTE Band 7	20	22.63	1	QPSK	50	0	0	Front	1:1	0.899	27.07	
2510.00	20850	Low	LTE Band 7	20	23.55	0	QPSK	1	0	0	Top	1:1	0.366	31.89	
2510.00	20850	Low	LTE Band 7	20	22.63	1	QPSK	50	0	0	Top	1:1	0.279	32.15	
2510.00	20850	Low	LTE Band 7	20	23.55	0	QPSK	1	0	6	Left	1:1	1.100	27.12	
2510.00	20850	Low	LTE Band 7	20	22.63	1	QPSK	50	0	6	Left	1:1	0.858	27.27	
3690.00	56640	High	LTE Band 48	20	22.37	0	QPSK	1	99	0	Back	1:1.58	0.893	24.85	20.77
3690.00	56640	High	LTE Band 48	20	22.37	0	QPSK	1	99	0	Front	1:1.58	1.760	21.91	
3560.00	55340	Low	LTE Band 48	20	22.20	0	QPSK	1	0	0	Top	1:1.58	1.910	21.38	
3603.30	55773	Low-Mid	LTE Band 48	20	21.40	0	QPSK	1	0	0	Top	1:1.58	1.610	21.33	
3646.70	56207	Mid-High	LTE Band 48	20	21.86	0	QPSK	1	99	0	Top	1:1.58	1.720	21.50	
3690.00	56640	High	LTE Band 48	20	22.37	0	QPSK	1	99	0	Top	1:1.58	2.290	20.77	
3560.00	55340	Low	LTE Band 48	20	21.25	1	QPSK	50	25	0	Top	1:1.58	1.460	21.60	
3603.30	55773	Low-Mid	LTE Band 48	20	20.39	1	QPSK	50	0	0	Top	1:1.58	1.240	21.45	
3646.70	56207	Mid-High	LTE Band 48	20	20.73	1	QPSK	50	50	0	Top	1:1.58	1.350	21.42	
3690.00	56640	High	LTE Band 48	20	21.44	1	QPSK	50	25	0	Top	1:1.58	1.630	21.31	
3690.00	56640	High	LTE Band 48	20	21.27	1	QPSK	100	0	0	Top	1:1.58	1.590	21.25	
3690.00	56640	High	LTE Band 48	20	22.37	0	QPSK	1	99	0	Left	1:1.58	0.588	26.67	

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

Table A-23
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]
2593.00	40620	Mid	LTE Band 41	20	23.75	0	QPSK	1	50	10	Back	1:1.58	0.352	30.28	26.76
2593.00	40620	Mid	LTE Band 41	20	22.76	1	QPSK	50	25	10	Back	1:1.58	0.277	30.33	
2593.00	40620	Mid	LTE Band 41	20	23.75	0	QPSK	1	50	0	Front	1:1.58	0.777	26.84	
2593.00	40620	Mid	LTE Band 41	20	22.76	1	QPSK	50	25	0	Front	1:1.58	0.630	26.76	
2593.00	40620	Mid	LTE Band 41	20	23.75	0	QPSK	1	50	0	Top	1:1.58	0.190	32.96	
2593.00	40620	Mid	LTE Band 41	20	22.76	1	QPSK	50	25	0	Top	1:1.58	0.155	32.85	
2593.00	40620	Mid	LTE Band 41	20	23.75	0	QPSK	1	50	6	Left	1:1.58	0.552	28.32	
2593.00	40620	Mid	LTE Band 41	20	22.76	1	QPSK	50	25	6	Left	1:1.58	0.445	28.27	

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

Table A-24
DSI = 4, 5, or 6 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	24.85	0	QPSK	1	0	0	Back	1:1	1.070	28.54	28.54
680.50	133297	Mid	LTE Band 71	20	24.85	0	QPSK	1	0	0	Front	1:1	0.223	35.35	
680.50	133297	Mid	LTE Band 71	20	24.85	0	QPSK	1	0	0	Bottom	1:1	0.377	33.07	
680.50	133297	Mid	LTE Band 71	20	24.85	0	QPSK	1	0	0	Right	1:1	0.484	31.98	
680.50	133297	Mid	LTE Band 71	20	24.85	0	QPSK	1	0	0	Left	1:1	0.083	39.64	
707.50	23095	Mid	LTE Band 12	10	22.60	0	QPSK	1	0	0	Back	1:1	0.613	28.70	28.70
707.50	23095	Mid	LTE Band 12	10	22.60	0	QPSK	1	0	0	Front	1:1	0.178	34.08	
707.50	23095	Mid	LTE Band 12	10	22.60	0	QPSK	1	0	0	Bottom	1:1	0.328	31.42	
707.50	23095	Mid	LTE Band 12	10	22.60	0	QPSK	1	0	0	Right	1:1	0.324	31.47	
707.50	23095	Mid	LTE Band 12	10	22.60	0	QPSK	1	0	0	Left	1:1	0.092	36.94	
782.00	23230	Mid	LTE Band 13	10	23.14	0	QPSK	1	49	0	Back	1:1	1.120	26.63	26.63
782.00	23230	Mid	LTE Band 13	10	23.14	0	QPSK	1	49	0	Front	1:1	0.260	32.97	
782.00	23230	Mid	LTE Band 13	10	23.14	0	QPSK	1	49	0	Bottom	1:1	0.519	29.97	
782.00	23230	Mid	LTE Band 13	10	23.14	0	QPSK	1	49	0	Right	1:1	0.200	34.11	
782.00	23230	Mid	LTE Band 13	10	23.14	0	QPSK	1	49	0	Left	1:1	0.081	38.03	
793.00	23330	Mid	LTE Band 14	10	24.52	0	QPSK	1	0	0	Back	1:1	0.589	30.80	30.80
793.00	23330	Mid	LTE Band 14	10	24.52	0	QPSK	1	0	0	Front	1:1	0.341	33.17	
793.00	23330	Mid	LTE Band 14	10	24.52	0	QPSK	1	0	0	Bottom	1:1	0.559	31.03	
793.00	23330	Mid	LTE Band 14	10	24.52	0	QPSK	1	0	0	Right	1:1	0.274	34.12	
793.00	23330	Mid	LTE Band 14	10	24.52	0	QPSK	1	0	0	Left	1:1	0.113	37.97	
831.50	26865	Mid	LTE Band 26 (Cell)	15	23.97	0	QPSK	1	74	0	Back	1:1	0.989	28.00	28.00
831.50	26865	Mid	LTE Band 26 (Cell)	15	23.97	0	QPSK	1	74	0	Front	1:1	0.452	31.40	
831.50	26865	Mid	LTE Band 26 (Cell)	15	23.97	0	QPSK	1	74	0	Bottom	1:1	0.713	29.42	
831.50	26865	Mid	LTE Band 26 (Cell)	15	23.97	0	QPSK	1	74	0	Right	1:1	0.272	33.60	
831.50	26865	Mid	LTE Band 26 (Cell)	15	23.97	0	QPSK	1	74	0	Left	1:1	0.088	38.50	
836.50	20525	Mid	LTE Band 5 (Cell)	10	23.14	0	QPSK	1	49	0	Back	1:1	0.782	28.19	28.19
836.50	20525	Mid	LTE Band 5 (Cell)	10	23.14	0	QPSK	1	49	0	Front	1:1	0.400	31.10	
836.50	20525	Mid	LTE Band 5 (Cell)	10	23.14	0	QPSK	1	49	0	Bottom	1:1	0.614	29.24	
836.50	20525	Mid	LTE Band 5 (Cell)	10	23.14	0	QPSK	1	49	0	Right	1:1	0.254	33.07	
836.50	20525	Mid	LTE Band 5 (Cell)	10	23.14	0	QPSK	1	49	0	Left	1:1	0.119	36.36	
1770.00	132572	High	LTE Band 66 (AWS)	20	21.06	0	QPSK	1	99	0	Back	1:1	1.290	23.93	23.93
1770.00	132572	High	LTE Band 66 (AWS)	20	21.07	0	QPSK	50	50	0	Back	1:1	1.260	24.05	
1770.00	132572	High	LTE Band 66 (AWS)	20	23.34	0	QPSK	1	99	0	Front	1:1	1.380	25.92	
1770.00	132572	High	LTE Band 66 (AWS)	20	22.44	1	QPSK	50	25	0	Front	1:1	1.130	25.89	
1720.00	132072	Low	LTE Band 66 (AWS)	20	23.30	0	QPSK	1	50	0	Bottom	1:1	1.080	26.95	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	22.78	0	QPSK	1	99	0	Bottom	1:1	1.180	26.04	
1770.00	132572	High	LTE Band 66 (AWS)	20	23.34	0	QPSK	1	99	0	Bottom	1:1	1.560	25.39	
1770.00	132572	High	LTE Band 66 (AWS)	20	22.44	1	QPSK	50	25	0	Bottom	1:1	1.170	25.74	
1770.00	132572	High	LTE Band 66 (AWS)	20	22.35	1	QPSK	100	0	0	Bottom	1:1	0.935	26.62	
1770.00	132572	High	LTE Band 66 (AWS)	20	23.34	0	QPSK	1	99	0	Right	1:1	0.175	34.89	
1770.00	132572	High	LTE Band 66 (AWS)	20	22.44	1	QPSK	50	25	0	Right	1:1	0.152	34.60	
1770.00	132572	High	LTE Band 66 (AWS)	20	23.34	0	QPSK	1	99	0	Left	1:1	1.300	26.18	
1770.00	132572	High	LTE Band 66 (AWS)	20	22.44	1	QPSK	50	25	0	Left	1:1	1.090	26.05	

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

Table A-25
DSI = 4, 5, or 6 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]
1882.50	26365	Mid	LTE Band 25 (PCS)	20	19.67	0	QPSK	1	50	0	Back	1:1	1.120	23.16	23.16
1882.50	26365	Mid	LTE Band 25 (PCS)	20	19.77	0	QPSK	50	25	0	Back	1:1	1.140	23.18	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	23.85	0	QPSK	1	50	0	Front	1:1	1.070	27.54	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	22.75	1	QPSK	50	25	0	Front	1:1	0.876	27.30	
1860.00	26140	Low	LTE Band 25 (PCS)	20	23.46	0	QPSK	1	99	0	Bottom	1:1	2.190	24.03	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	23.85	0	QPSK	1	50	0	Bottom	1:1	2.120	24.57	
1905.00	26590	High	LTE Band 25 (PCS)	20	23.48	0	QPSK	1	0	0	Bottom	1:1	1.990	24.47	
1860.00	26140	Low	LTE Band 25 (PCS)	20	22.74	1	QPSK	50	25	0	Bottom	1:1	1.810	24.14	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	22.75	1	QPSK	50	25	0	Bottom	1:1	1.720	24.37	
1905.00	26590	High	LTE Band 25 (PCS)	20	22.55	1	QPSK	50	0	0	Bottom	1:1	1.620	24.43	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	22.63	1	QPSK	100	0	0	Bottom	1:1	1.650	24.43	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	23.85	0	QPSK	1	50	0	Right	1:1	0.105	37.62	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	22.75	1	QPSK	50	25	0	Right	1:1	0.088	37.28	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	23.85	0	QPSK	1	50	0	Left	1:1	0.645	29.73	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	22.75	1	QPSK	50	25	0	Left	1:1	0.517	29.59	
2310.00	27710	Mid	LTE Band 30	10	18.75	0	QPSK	1	0	0	Back	1:1	2.220	19.27	19.05
2310.00	27710	Mid	LTE Band 30	10	18.71	0	QPSK	25	0	0	Back	1:1	2.290	19.09	
2310.00	27710	Mid	LTE Band 30	10	18.67	0	QPSK	50	0	0	Back	1:1	2.290	19.05	
2310.00	27710	Mid	LTE Band 30	10	22.75	0	QPSK	1	49	0	Front	1:1	0.719	28.16	
2310.00	27710	Mid	LTE Band 30	10	21.80	1	QPSK	25	12	0	Front	1:1	0.587	28.09	
2310.00	27710	Mid	LTE Band 30	10	22.75	0	QPSK	1	49	0	Top	1:1	0.185	34.06	
2310.00	27710	Mid	LTE Band 30	10	21.80	1	QPSK	25	12	0	Top	1:1	0.151	33.99	
2310.00	27710	Mid	LTE Band 30	10	18.75	0	QPSK	1	0	0	Left	1:1	1.510	20.94	
2310.00	27710	Mid	LTE Band 30	10	18.71	0	QPSK	25	0	0	Left	1:1	1.550	20.79	
2310.00	27710	Mid	LTE Band 30	10	18.67	0	QPSK	50	0	0	Left	1:1	1.520	20.83	
2535.00	21100	Mid	LTE Band 7	20	19.08	0	QPSK	1	99	0	Back	1:1	1.220	22.20	21.89
2535.00	21100	Mid	LTE Band 7	20	19.05	0	QPSK	50	50	0	Back	1:1	1.300	21.89	
2510.00	20850	Low	LTE Band 7	20	23.55	0	QPSK	1	0	0	Front	1:1	1.130	27.00	
2510.00	20850	Low	LTE Band 7	20	22.63	1	QPSK	50	0	0	Front	1:1	0.899	27.07	
2510.00	20850	Low	LTE Band 7	20	23.55	0	QPSK	1	0	0	Top	1:1	0.366	31.89	
2510.00	20850	Low	LTE Band 7	20	22.63	1	QPSK	50	0	0	Top	1:1	0.279	32.15	
2535.00	21100	Mid	LTE Band 7	20	19.08	0	QPSK	1	99	0	Left	1:1	0.775	24.17	
2535.00	21100	Mid	LTE Band 7	20	19.05	0	QPSK	50	50	0	Left	1:1	0.797	24.01	

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

Table A-26
DSI = 4, 5, or 6 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]
3690.00	56640	High	LTE Band 48	20	22.37	0	QPSK	1	99	0	Back	1:1.58	0.893	24.85	20.77
3690.00	56640	High	LTE Band 48	20	22.37	0	QPSK	1	99	0	Front	1:1.58	1.760	21.91	
3560.00	55340	Low	LTE Band 48	20	22.20	0	QPSK	1	0	0	Top	1:1.58	1.910	21.38	
3603.30	55773	Low-Mid	LTE Band 48	20	21.40	0	QPSK	1	0	0	Top	1:1.58	1.610	21.33	
3646.70	56207	Mid-High	LTE Band 48	20	21.86	0	QPSK	1	99	0	Top	1:1.58	1.720	21.50	
3690.00	56640	High	LTE Band 48	20	22.37	0	QPSK	1	99	0	Top	1:1.58	2.290	20.77	
3560.00	55340	Low	LTE Band 48	20	21.25	1	QPSK	50	25	0	Top	1:1.58	1.460	21.60	
3603.30	55773	Low-Mid	LTE Band 48	20	20.39	1	QPSK	50	0	0	Top	1:1.58	1.240	21.45	
3646.70	56207	Mid-High	LTE Band 48	20	20.73	1	QPSK	50	50	0	Top	1:1.58	1.350	21.42	
3690.00	56640	High	LTE Band 48	20	21.44	1	QPSK	50	25	0	Top	1:1.58	1.630	21.31	
3690.00	56640	High	LTE Band 48	20	21.27	1	QPSK	100	0	0	Top	1:1.58	1.590	21.25	
3690.00	56640	High	LTE Band 48	20	22.37	0	QPSK	1	99	0	Left	1:1.58	0.588	26.67	

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

Table A-27
DSI = 4, 5, or 6 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]
2593.00	40620	Mid	LTE Band 41	20	20.76	0	QPSK	1	50	0	Back	1:1.58	1.060	22.50	22.43
2593.00	40620	Mid	LTE Band 41	20	20.77	0	QPSK	50	25	0	Back	1:1.58	1.080	22.43	
2593.00	40620	Mid	LTE Band 41	20	23.75	0	QPSK	1	50	0	Front	1:1.58	0.777	26.84	
2593.00	40620	Mid	LTE Band 41	20	22.76	1	QPSK	50	25	0	Front	1:1.58	0.630	26.76	
2593.00	40620	Mid	LTE Band 41	20	23.75	0	QPSK	1	50	0	Top	1:1.58	0.190	32.96	
2593.00	40620	Mid	LTE Band 41	20	22.76	1	QPSK	50	25	0	Top	1:1.58	0.155	32.85	
2593.00	40620	Mid	LTE Band 41	20	20.76	0	QPSK	1	50	0	Left	1:1.58	0.746	24.03	
2593.00	40620	Mid	LTE Band 41	20	20.77	0	QPSK	50	25	0	Left	1:1.58	0.751	24.01	

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

Table A-28
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	23.40	0	DFT-s-OFDM QPSK	1	53	7	Back	1:1	0.225	33.86	32.21
680.50	136100	Mid	NR Band n71	20	23.40	0	DFT-s-OFDM QPSK	1	53	0	Front	1:1	0.143	35.83	
680.50	136100	Mid	NR Band n71	20	23.40	0	DFT-s-OFDM QPSK	1	53	0	Bottom	1:1	0.293	32.71	
680.50	136100	Mid	NR Band n71	20	23.40	0	DFT-s-OFDM QPSK	1	53	0	Right	1:1	0.329	32.21	
680.50	136100	Mid	NR Band n71	20	23.40	0	DFT-s-OFDM QPSK	1	53	0	Left	1:1	0.092	37.74	
836.50	167300	Mid	NR Band n5	20	23.62	0	DFT-s-OFDM QPSK	1	53	7	Back	1:1	0.342	32.26	29.85
836.50	167300	Mid	NR Band n5	20	23.62	0	DFT-s-OFDM QPSK	1	53	0	Front	1:1	0.362	32.01	
836.50	167300	Mid	NR Band n5	20	23.62	0	DFT-s-OFDM QPSK	1	53	0	Bottom	1:1	0.595	29.85	
836.50	167300	Mid	NR Band n5	20	23.62	0	DFT-s-OFDM QPSK	1	53	0	Right	1:1	0.308	32.71	
836.50	167300	Mid	NR Band n5	20	23.62	0	DFT-s-OFDM QPSK	1	53	0	Left	1:1	0.107	37.31	
1745.00	349000	Mid	NR Band n66	20	24.60	0	DFT-s-OFDM QPSK	1	104	7	Back	1:1	1.210	27.75	24.13
1745.00	349000	Mid	NR Band n66	20	24.40	0	DFT-s-OFDM QPSK	50	28	7	Back	1:1	1.090	28.01	
1745.00	349000	Mid	NR Band n66	20	24.60	0	DFT-s-OFDM QPSK	1	104	0	Front	1:1	0.970	28.71	
1745.00	349000	Mid	NR Band n66	20	24.40	0	DFT-s-OFDM QPSK	50	28	0	Front	1:1	1.270	27.34	
1720.00	344000	Low	NR Band n66	20	24.43	0	DFT-s-OFDM QPSK	1	104	0	Bottom	1:1	2.500	24.43	
1745.00	349000	Mid	NR Band n66	20	24.60	0	DFT-s-OFDM QPSK	1	104	0	Bottom	1:1	2.490	24.62	
1770.00	354000	High	NR Band n66	20	24.59	0	DFT-s-OFDM QPSK	1	104	0	Bottom	1:1	2.270	25.01	
1720.00	344000	Low	NR Band n66	20	24.20	0	DFT-s-OFDM QPSK	50	28	0	Bottom	1:1	2.310	24.54	
1745.00	349000	Mid	NR Band n66	20	24.40	0	DFT-s-OFDM QPSK	50	28	0	Bottom	1:1	2.660	24.13	
1770.00	354000	High	NR Band n66	20	24.39	0	DFT-s-OFDM QPSK	50	28	0	Bottom	1:1	2.330	24.70	
1745.00	349000	Mid	NR Band n66	20	23.35	1	DFT-s-OFDM QPSK	100	0	0	Bottom	1:1	2.080	24.15	
1745.00	349000	Mid	NR Band n66	20	24.60	0	DFT-s-OFDM QPSK	1	104	0	Right	1:1	0.175	36.15	
1745.00	349000	Mid	NR Band n66	20	24.40	0	DFT-s-OFDM QPSK	50	28	0	Right	1:1	0.198	35.41	
1745.00	349000	Mid	NR Band n66	20	24.60	0	DFT-s-OFDM QPSK	1	104	0	Left	1:1	1.010	28.54	
1745.00	349000	Mid	NR Band n66	20	24.40	0	DFT-s-OFDM QPSK	50	28	0	Left	1:1	1.250	27.41	
1745.00	349000	Mid	NR Band n66	20	22.85	1.5	CP-OFDM QPSK	1	1	0	Bottom	1:1	1.700	24.52	
1860.00	372000	Low	NR Band n25	20	24.78	0	DFT-s-OFDM QPSK	1	53	7	Back	1:1	0.881	29.31	24.23
1860.00	372000	Low	NR Band n25	20	24.66	0	DFT-s-OFDM QPSK	50	28	7	Back	1:1	0.911	29.04	
1860.00	372000	Low	NR Band n25	20	24.78	0	DFT-s-OFDM QPSK	1	53	0	Front	1:1	1.260	27.76	
1860.00	372000	Low	NR Band n25	20	24.66	0	DFT-s-OFDM QPSK	50	28	0	Front	1:1	1.260	27.64	
1860.00	372000	Low	NR Band n25	20	24.78	0	DFT-s-OFDM QPSK	1	53	0	Bottom	1:1	2.470	24.83	
1882.50	376500	Mid	NR Band n25	20	24.33	0	DFT-s-OFDM QPSK	1	1	0	Bottom	1:1	2.400	24.51	
1905.00	381000	High	NR Band n25	20	24.33	0	DFT-s-OFDM QPSK	1	53	0	Bottom	1:1	1.980	25.34	
1860.00	372000	Low	NR Band n25	20	24.66	0	DFT-s-OFDM QPSK	50	28	0	Bottom	1:1	2.600	24.49	
1882.50	376500	Mid	NR Band n25	20	24.64	0	DFT-s-OFDM QPSK	50	28	0	Bottom	1:1	2.430	24.76	
1905.00	381000	High	NR Band n25	20	24.65	0	DFT-s-OFDM QPSK	50	28	0	Bottom	1:1	2.130	25.35	
1860.00	372000	Low	NR Band n25	20	23.60	1	DFT-s-OFDM QPSK	100	0	0	Bottom	1:1	2.070	24.42	
1860.00	372000	Low	NR Band n25	20	24.78	0	DFT-s-OFDM QPSK	1	53	0	Right	1:1	0.088	39.31	
1860.00	372000	Low	NR Band n25	20	24.66	0	DFT-s-OFDM QPSK	50	28	0	Right	1:1	0.086	39.29	
1860.00	372000	Low	NR Band n25	20	24.78	0	DFT-s-OFDM QPSK	1	53	0	Left	1:1	0.746	30.03	
1860.00	372000	Low	NR Band n25	20	24.66	0	DFT-s-OFDM QPSK	50	28	0	Left	1:1	0.691	30.24	
1860.00	372000	Low	NR Band n25	20	22.58	1.5	CP-OFDM QPSK	1	1	0	Bottom	1:1	1.710	24.23	
2592.99	518598	Mid	NR Band n41	100	18.05	0	DFT-s-OFDM QPSK	1	1	10	Back	1:1	0.124	31.10	29.00
2592.99	518598	Mid	NR Band n41	100	18.05	0	DFT-s-OFDM QPSK	1	1	0	Front	1:1	0.201	29.00	
2592.99	518598	Mid	NR Band n41	100	18.05	0	DFT-s-OFDM QPSK	1	1	0	Top	1:1	0.055	34.63	
2592.99	518598	Mid	NR Band n41	100	18.05	0	DFT-s-OFDM QPSK	1	1	6	Left	1:1	0.125	31.06	

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

Table A-29
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]
3750.00	650000	Low	NR Band n77	100	17.40	0	DFT-s-OFDM QPSK	1	1	0	Back	1:1	0.949	21.61	
3930.00	662000	High	NR Band n77	100	17.39	0	DFT-s-OFDM QPSK	1	1	0	Back	1:1	0.917	21.75	
3750.00	650000	Low	NR Band n77	100	17.41	0	DFT-s-OFDM QPSK	135	0	0	Back	1:1	0.962	21.56	
3930.00	662000	High	NR Band n77	100	17.25	0	DFT-s-OFDM QPSK	135	0	0	Back	1:1	0.846	21.96	
3750.00	650000	Low	NR Band n77	100	17.25	0	DFT-s-OFDM QPSK	270	0	0	Back	1:1	0.949	21.46	
3750.00	650000	Low	NR Band n77	100	17.40	0	DFT-s-OFDM QPSK	1	1	0	Front	1:1	1.150	20.77	
3930.00	662000	High	NR Band n77	100	17.39	0	DFT-s-OFDM QPSK	1	1	0	Front	1:1	0.913	21.76	
3750.00	650000	Low	NR Band n77	100	17.41	0	DFT-s-OFDM QPSK	135	0	0	Front	1:1	1.200	20.60	
3930.00	662000	High	NR Band n77	100	17.25	0	DFT-s-OFDM QPSK	135	0	0	Front	1:1	0.849	21.94	18.68
3750.00	650000	Low	NR Band n77	100	17.25	0	DFT-s-OFDM QPSK	270	0	0	Front	1:1	1.160	20.58	
3750.00	650000	Low	NR Band n77	100	17.40	0	DFT-s-OFDM QPSK	1	1	0	Top	1:1	1.770	18.90	
3930.00	662000	High	NR Band n77	100	17.39	0	DFT-s-OFDM QPSK	1	1	0	Top	1:1	1.710	19.04	
3750.00	650000	Low	NR Band n77	100	17.41	0	DFT-s-OFDM QPSK	135	0	0	Top	1:1	1.810	18.81	
3930.00	662000	High	NR Band n77	100	17.25	0	DFT-s-OFDM QPSK	135	0	0	Top	1:1	1.590	19.22	
3750.00	650000	Low	NR Band n77	100	17.25	0	DFT-s-OFDM QPSK	270	0	0	Top	1:1	1.800	18.68	
3750.00	650000	Low	NR Band n77	100	17.40	0	DFT-s-OFDM QPSK	1	1	0	Left	1:1	0.464	24.71	
3750.00	650000	Low	NR Band n77	100	17.22	0	CP-OFDM QPSK	1	1	0	Top	1:1	1.660	19.00	

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

Table A-30
DSI = 4, 5, or 6 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	23.40	0	DFT-s-OFDM QPSK	1	53	0	Back	1:1	0.636	29.34	29.34
680.50	136100	Mid	NR Band n71	20	23.40	0	DFT-s-OFDM QPSK	1	53	0	Front	1:1	0.143	35.83	
680.50	136100	Mid	NR Band n71	20	23.40	0	DFT-s-OFDM QPSK	1	53	0	Bottom	1:1	0.293	32.71	
680.50	136100	Mid	NR Band n71	20	23.40	0	DFT-s-OFDM QPSK	1	53	0	Right	1:1	0.329	32.21	
680.50	136100	Mid	NR Band n71	20	23.40	0	DFT-s-OFDM QPSK	1	53	0	Left	1:1	0.092	37.74	
836.50	167300	Mid	NR Band n5	20	23.62	0	DFT-s-OFDM QPSK	1	53	0	Back	1:1	0.595	29.85	29.85
836.50	167300	Mid	NR Band n5	20	23.62	0	DFT-s-OFDM QPSK	1	53	0	Front	1:1	0.362	32.01	
836.50	167300	Mid	NR Band n5	20	23.62	0	DFT-s-OFDM QPSK	1	53	0	Bottom	1:1	0.595	29.85	
836.50	167300	Mid	NR Band n5	20	23.62	0	DFT-s-OFDM QPSK	1	53	0	Right	1:1	0.308	32.71	
836.50	167300	Mid	NR Band n5	20	23.62	0	DFT-s-OFDM QPSK	1	53	0	Left	1:1	0.107	37.31	
1745.00	349000	Mid	NR Band n66	20	21.58	0	DFT-s-OFDM QPSK	1	104	0	Back	1:1	1.150	24.95	24.13
1745.00	349000	Mid	NR Band n66	20	21.61	0	DFT-s-OFDM QPSK	50	0	0	Back	1:1	1.260	24.59	
1745.00	349000	Mid	NR Band n66	20	24.60	0	DFT-s-OFDM QPSK	1	104	0	Front	1:1	0.970	28.71	
1745.00	349000	Mid	NR Band n66	20	24.40	0	DFT-s-OFDM QPSK	50	28	0	Front	1:1	1.270	27.34	
1720.00	344000	Low	NR Band n66	20	24.43	0	DFT-s-OFDM QPSK	1	104	0	Bottom	1:1	2.500	24.43	
1745.00	349000	Mid	NR Band n66	20	24.60	0	DFT-s-OFDM QPSK	1	104	0	Bottom	1:1	2.490	24.62	
1770.00	354000	High	NR Band n66	20	24.59	0	DFT-s-OFDM QPSK	1	104	0	Bottom	1:1	2.270	25.01	
1720.00	344000	Low	NR Band n66	20	24.20	0	DFT-s-OFDM QPSK	50	28	0	Bottom	1:1	2.310	24.54	
1745.00	349000	Mid	NR Band n66	20	24.40	0	DFT-s-OFDM QPSK	50	28	0	Bottom	1:1	2.660	24.13	
1770.00	354000	High	NR Band n66	20	24.39	0	DFT-s-OFDM QPSK	50	28	0	Bottom	1:1	2.330	24.70	
1745.00	349000	Mid	NR Band n66	20	23.35	1	DFT-s-OFDM QPSK	100	0	0	Bottom	1:1	2.080	24.15	
1745.00	349000	Mid	NR Band n66	20	24.60	0	DFT-s-OFDM QPSK	1	104	0	Right	1:1	0.175	36.15	
1745.00	349000	Mid	NR Band n66	20	24.40	0	DFT-s-OFDM QPSK	50	28	0	Right	1:1	0.198	35.41	
1745.00	349000	Mid	NR Band n66	20	24.60	0	DFT-s-OFDM QPSK	1	104	0	Left	1:1	1.010	28.54	
1745.00	349000	Mid	NR Band n66	20	24.40	0	DFT-s-OFDM QPSK	50	28	0	Left	1:1	1.250	27.41	
1745.00	349000	Mid	NR Band n66	20	22.85	1.5	CP-OFDM QPSK	1	1	0	Bottom	1:1	1.700	24.52	
1860.00	372000	Low	NR Band n25	20	21.33	0	DFT-s-OFDM QPSK	1	104	0	Back	1:1	1.240	24.38	24.23
1860.00	372000	Low	NR Band n25	20	21.38	0	DFT-s-OFDM QPSK	50	28	0	Back	1:1	1.230	24.46	
1860.00	372000	Low	NR Band n25	20	24.78	0	DFT-s-OFDM QPSK	1	53	0	Front	1:1	1.260	27.76	
1860.00	372000	Low	NR Band n25	20	24.66	0	DFT-s-OFDM QPSK	50	28	0	Front	1:1	1.260	27.64	
1860.00	372000	Low	NR Band n25	20	24.78	0	DFT-s-OFDM QPSK	1	53	0	Bottom	1:1	2.470	24.83	
1882.50	376500	Mid	NR Band n25	20	24.33	0	DFT-s-OFDM QPSK	1	1	0	Bottom	1:1	2.400	24.51	
1905.00	381000	High	NR Band n25	20	24.33	0	DFT-s-OFDM QPSK	1	53	0	Bottom	1:1	1.980	25.34	
1860.00	372000	Low	NR Band n25	20	24.66	0	DFT-s-OFDM QPSK	50	28	0	Bottom	1:1	2.600	24.49	
1882.50	376500	Mid	NR Band n25	20	24.64	0	DFT-s-OFDM QPSK	50	28	0	Bottom	1:1	2.430	24.76	
1905.00	381000	High	NR Band n25	20	24.65	0	DFT-s-OFDM QPSK	50	28	0	Bottom	1:1	2.130	25.35	
1860.00	372000	Low	NR Band n25	20	23.60	1	DFT-s-OFDM QPSK	100	0	0	Bottom	1:1	2.070	24.42	
1860.00	372000	Low	NR Band n25	20	24.78	0	DFT-s-OFDM QPSK	1	53	0	Right	1:1	0.088	39.31	
1860.00	372000	Low	NR Band n25	20	24.66	0	DFT-s-OFDM QPSK	50	28	0	Right	1:1	0.086	39.29	
1860.00	372000	Low	NR Band n25	20	24.78	0	DFT-s-OFDM QPSK	1	53	0	Left	1:1	0.746	30.03	
1860.00	372000	Low	NR Band n25	20	24.66	0	DFT-s-OFDM QPSK	50	28	0	Left	1:1	0.691	30.24	
1860.00	372000	Low	NR Band n25	20	22.58	1.5	CP-OFDM QPSK	1	1	0	Bottom	1:1	1.710	24.23	
2592.99	518598	Mid	NR Band n41	100	18.05	0	DFT-s-OFDM QPSK	1	1	0	Back	1:1	0.600	24.25	24.15
2592.99	518598	Mid	NR Band n41	100	18.13	0	DFT-s-OFDM QPSK	135	0	0	Back	1:1	0.608	24.27	
2592.99	518598	Mid	NR Band n41	100	18.05	0	DFT-s-OFDM QPSK	1	1	0	Front	1:1	0.201	29.00	
2592.99	518598	Mid	NR Band n41	100	18.05	0	DFT-s-OFDM QPSK	1	1	0	Top	1:1	0.055	34.63	
2592.99	518598	Mid	NR Band n41	100	18.05	0	DFT-s-OFDM QPSK	1	1	0	Left	1:1	0.455	25.45	
2592.99	518598	Mid	NR Band n41	100	18.00	0	CP-OFDM QPSK	1	1	0	Back	1:1	0.606	24.15	

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

Table A-31
DSI = 4,5, or 6 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]
3750.00	650000	Low	NR Band n77	100	17.40	0	DFT-s-OFDM QPSK	1	1	0	Back	1:1	0.949	21.61	
3930.00	662000	High	NR Band n77	100	17.39	0	DFT-s-OFDM QPSK	1	1	0	Back	1:1	0.917	21.75	
3750.00	650000	Low	NR Band n77	100	17.41	0	DFT-s-OFDM QPSK	135	0	0	Back	1:1	0.962	21.56	
3930.00	662000	High	NR Band n77	100	17.25	0	DFT-s-OFDM QPSK	135	0	0	Back	1:1	0.846	21.96	
3750.00	650000	Low	NR Band n77	100	17.25	0	DFT-s-OFDM QPSK	270	0	0	Back	1:1	0.949	21.46	
3750.00	650000	Low	NR Band n77	100	17.40	0	DFT-s-OFDM QPSK	1	1	0	Front	1:1	1.150	20.77	
3930.00	662000	High	NR Band n77	100	17.39	0	DFT-s-OFDM QPSK	1	1	0	Front	1:1	0.913	21.76	
3750.00	650000	Low	NR Band n77	100	17.41	0	DFT-s-OFDM QPSK	135	0	0	Front	1:1	1.200	20.60	
3930.00	662000	High	NR Band n77	100	17.25	0	DFT-s-OFDM QPSK	135	0	0	Front	1:1	0.849	21.94	18.68
3750.00	650000	Low	NR Band n77	100	17.25	0	DFT-s-OFDM QPSK	270	0	0	Front	1:1	1.160	20.58	
3750.00	650000	Low	NR Band n77	100	17.40	0	DFT-s-OFDM QPSK	1	1	0	Top	1:1	1.770	18.90	
3930.00	662000	High	NR Band n77	100	17.39	0	DFT-s-OFDM QPSK	1	1	0	Top	1:1	1.710	19.04	
3750.00	650000	Low	NR Band n77	100	17.41	0	DFT-s-OFDM QPSK	135	0	0	Top	1:1	1.810	18.81	
3930.00	662000	High	NR Band n77	100	17.25	0	DFT-s-OFDM QPSK	135	0	0	Top	1:1	1.590	19.22	
3750.00	650000	Low	NR Band n77	100	17.25	0	DFT-s-OFDM QPSK	270	0	0	Top	1:1	1.800	18.68	
3750.00	650000	Low	NR Band n77	100	17.40	0	DFT-s-OFDM QPSK	1	1	0	Left	1:1	0.464	24.71	
3750.00	650000	Low	NR Band n77	100	17.22	0	CP-OFDM QPSK	1	1	0	Top	1:1	1.660	19.00	

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