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PART 0 SAR CHAR REPORT

Applicant Name:
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Date of Testing:
 05/23/20 - 07/22/20
Test Site/Location:
 PCTEST Lab, Columbia, MD, USA
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FCC ID: A3LSMT978U

APPLICANT: SAMSUNG ELECTRONICS CO., LTD

Report Type: Part 0 SAR Characterization
DUT Type: Portable Tablet
Model(s): SM-T978U

Note: This revised test report (S/N: 1M2004230075-27-R1.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








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1 DEVICE UNDER TEST

1.1 Device Overview

Band & Mode	Operating Modes	Tx Frequency
UMTS 850	Data	826.40 - 846.60 MHz
UMTS 1750	Data	1712.4 - 1752.6 MHz
UMTS 1900	Data	1852.4 - 1907.6 MHz
LTE Band 71	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 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 7	Voice/Data	2502.5 - 2567.5 MHz
LTE Band 41	Voice/Data	2498.5 - 2687.5 MHz
NR Band n71	Data	665.5 - 695.5 MHz
NR Band n5	Data	826.5 - 846.5 MHz
NR Band n66	Data	1712.5 - 1777.5 MHz
NR Band n25	Data	1852.5 - 1912.5 MHz
NR Band n2	Data	1852.5 - 1907.5 MHz
NR Band n41	Data	2506.02 - 2679.99 MHz
NR Band n260	Data	37000 - 40000 MHz
NR Band n261	Data	27500 - 28350 MHz
2.4 GHz WLAN	Data	2412 - 2462 MHz
U-NII-1	Data	5180 - 5240 MHz
U-NII-2A	Data	5260 - 5320 MHz
U-NII-2C	Data	5500 - 5720 MHz
U-NII-3	Data	5745 - 5825 MHz
Bluetooth	Data	2402 - 2480 MHz

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

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1.2 Time-Averaging for SAR

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




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

1.3 Nomenclature for Part 0 Report

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

1.4 Bibliography

Report Type	Report Serial Number
FCC Part 0 PD Characterization Report	1M2004230075-23-R1.A3L
FCC SAR Evaluation Report (Part 1)	1M2004230075 -01-R3.A3L
FCC PD Evaluation Report (Part 1)	1M2004230075 -24-R2.A3L
RF Exposure Part 2 Test Report	1M2004230075 -25-R1.A3L
RF Exposure Compliance Summary	1M2004230075 -26-R1.A3L

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2.1 SAR Definition

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

Equation 2-1
SAR Mathematical Equation

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

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

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

where:

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

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

2.2 SAR Measurement Procedure

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

1. The SAR distribution at the exposed side of the head or body was measured at a distance no greater than 5.0 mm from the inner surface of the shell. The area covered the entire dimension of the device-head and body interface and the horizontal grid resolution was determined per FCC KDB Publication 865664 D01v01r04 (See Table 2-1) and IEEE 1528-2013.
2. Table 2-1) and IEEE 1528-2013.
3. The point SAR measurement was taken at the maximum SAR region determined from Step 1 to enable the monitoring of SAR fluctuations/drifts during the 1g/10g cube evaluation. SAR at this fixed point was measured and used as a reference value.

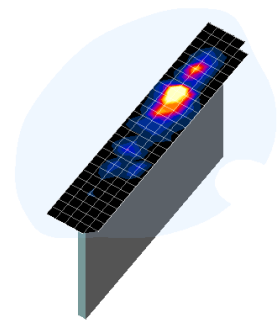





Figure 2-1
Sample SAR Area Scan



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

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

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

*Also compliant to IEEE 1528-2013 Table 6

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3 SAR CHARACTERIZATION

3.1 DSI and SAR Determination

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

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

Table 3-1
DSI and Corresponding Exposure Scenarios



Scenario	Description	SAR Test Cases
Grip Sensor 3 Active (DSI = 2)	<ul style="list-style-type: none"> Device is within certain distance of user. Grip Sensor #3 is triggered. Grip Sensor #3 is collocated with WIFI Ant1 antenna 	Tablet SAR per KDB Publication 616217 D04
Grip Sensor 2 Active (DSI = 3)	<ul style="list-style-type: none"> Device is within certain distance of user. Grip Sensor #2 is triggered. Grip Sensor #2 is collocated with Main 1 antenna 	Tablet SAR per KDB Publication 616217 D04
Grip Sensor 2 and 3 Active (DSI=1)	<ul style="list-style-type: none"> Device is within certain distance of user. Grip sensor #2 and #3 are triggered. Grip Sensor #3 is collocated with WIFI Ant1 antenna. Grip Sensor #2 is collocated with Main 1 antenna. 	Tablet SAR per KDB Publication 616217 D04
Free Space (DSI = 0)	<ul style="list-style-type: none"> Device not close to user. Grip sensors are not triggered 	Tablet SAR per KDB Publication 616217 D04

3.2 SAR Design Target

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

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

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

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3.3 SAR Char

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

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




**Table 3-3
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. Tablet SAR measured at 19(18 for NR n41), 23 (19 for NR n41) and 7 mm spacing for back, top, right respectively 2. Tablet SAR measured at 0 mm for left and right surfaces
1	P_{limit} is calculated based on 1g Tablet SAR at 0 mm for back, top and right surfaces, with Grip sensors #2 and #3 Triggered.
2	P_{limit} is calculated based on 1g Tablet SAR at 0 mm for right surfaces, for back and top at 0mm for n41 with grip sensor #3 triggered.
3	P_{limit} is calculated based on 1g Tablet SAR at 0 mm for back and top surfaces for 3G/4G/5G Bands other than n41, with Grip sensor #2 triggered.

Note:

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

$$P_{limit} = \min\{ P_{limit} \text{ corresponding to 1g Tablet SAR evaluation at 18 – 19, 19 – 23, and 7 mm spacing for back, top, right respectively } \\ P_{limit} \text{ corresponding to 1g Tablet SAR evaluation at 0 mm for left and right surfaces} \}$$




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**Table 3-4
SAR Characterizations**

Exposure Scenario:	Body 1g SAR at Max Power	Body 1g SAR at Reduced Power (Grip 2+3)	Body 1g SAR at Reduced Power (Grip 3)	Body 1g SAR at Reduced Power (Grip 2)	Maximum Tune-up Output Power*
Averaging Volume:	1g	1g	1g	1g	
DSI:	0	1	2	3	
Technology/Band	P _{limit} corresponding to 1mW/g (SAR _{design_target})				P _{max}
UMTS B5	29.4	17.5	29.4	17.5	24.0
UMTS B4	26.7	13.5	21.0	13.5	24.0
UMTS B2	27.3	12.0	21.0	12.0	24.0
LTE FDD B71	30.7	14.0	30.7	14.0	24.0
LTE FDD B12	30.0	16.0	30.0	16.0	24.0
LTE FDD B13	28.2	16.0	28.2	16.0	24.0
LTE FDD B26	28.8	16.0	28.8	16.0	24.0
LTE FDD B5	28.8	16.0	28.8	16.0	24.0
LTE FDD B66/4	26.1	12.5	26.1	12.5	24.0
LTE FDD B25/2	26.9	12.5	21.0	12.5	24.0
LTE FDD B7	30.1	12.5	12.5	12.5	24.0
LTE TDD B41 PC3	29.4	12.0	12.0	12.0	22.0
LTE TDD B41 PC2	29.4	12.0	12.0	12.0	23.4
NR FDD n71	30.2	14.0	30.2	14.0	24.0
NR FDD n5	29.0	16.0	29.0	16.0	24.0
NR FDD n66	27.3	12.5	27.3	12.5	24.0
NR FDD n25/n2	27.5	12.5	27.5	12.5	24.0
NR TDD n41	28.1	8.0	8.0	28.1	18.0

Notes:

1. For all modes/bands, when Grip 2 + 3 (DSI=1) and Grip 2 sensor (DSI=3) are triggered at the same time, DSI=1 takes priority, thus the P_{limit} for DSI=1 is set to be less or equal to P_{limit} for DSI=3.
2. For all modes/bands, when Grip 2 + 3 (DSI=1) and Grip 3 sensor (DSI=2) are triggered at the same time, DSI=1 takes priority, thus the P_{limit} for DSI=1 is set to be less or equal to P_{limit} for DSI=2.
3. When $P_{max} < P_{limit}$, the DUT will operate at a power level up to P_{max} .

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4



EQUIPMENT LIST

For SAR measurements

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
Agilent	8594A	(9kHz - 2.9GHz) Spectrum Analyzer	N/A	N/A	N/A	3051A00187
Agilent	E5515C	8960 Series 10 Wireless Communications Test Set	2/10/2020	Annual	2/10/2021	GB42230325
Agilent	E4438C	ESG Vector Signal Generator	3/8/2019	Biennial	3/8/2021	MY42082385
Agilent	E4432B	ESG-D Series Signal Generator	7/14/2019	Annual	7/14/2020	US40053896
Agilent	N5182A	MXG Vector Signal Generator	5/13/2020	Annual	5/13/2021	MY47420603
Agilent	N5182A	MXG Vector Signal Generator	7/10/2019	Annual	7/10/2020	MY47420800
Agilent	8753E5	S-Parameter Network Analyzer	8/26/2019	Annual	8/26/2020	MY40000670
Agilent	8753E5	S-Parameter Network Analyzer	12/31/2019	Annual	12/31/2020	US39170122
Agilent	E5515C	Wireless Communications Test Set	9/25/2019	Annual	9/25/2020	GB43304278
Agilent	E5515C	Wireless Communications Test Set	1/14/2020	Triennial	1/14/2023	GB43304447
Agilent	N4010A	Wireless Connectivity Test Set	CBT	N/A	CBT	GB44450273
Agilent	N4010A	Wireless Connectivity Test Set	CBT	N/A	CBT	GB46170464
Amplifier Research	15S1G6	Amplifier	CBT	N/A	CBT	433976
Amplifier Research	15S1G6	Amplifier	CBT	N/A	CBT	433976
Anritsu	MN8110B	I/O Adaptor	CBT	N/A	CBT	6261747881
Anritsu	ML2495A	Power Meter	12/17/2019	Annual	12/17/2020	941001
Anritsu	ML2496A	Power Meter	2/13/2020	Annual	2/13/2021	1306009
Anritsu	ML2496A	Power Meter	3/23/2020	Annual	3/23/2021	1351001
Anritsu	MA2411B	Pulse Power Sensor	12/4/2019	Annual	12/4/2020	1126066
Anritsu	MA2411B	Pulse Power Sensor	11/15/2019	Annual	11/15/2020	1027293
Anritsu	MT8821C	Radio Communication Analyzer	2/22/2020	Annual	2/22/2021	6261895213
Anritsu	MT8821C	Radio Communication Analyzer	11/22/2019	Annual	11/22/2020	626204735
Anritsu	MA24106A	USB Power Sensor	6/8/2020	Annual	6/8/2021	1344555
Anritsu	MA24106A	USB Power Sensor	7/16/2019	Annual	7/16/2020	1349511
Anritsu	MA24106A	USB Power Sensor	2/27/2020	Annual	2/27/2021	1244524
Anritsu	MT8862A	Wireless Connectivity Test Set	8/8/2019	Annual	8/8/2020	6261782395
COMTECH	ARR5729-5	Solid State Amplifier	CBT	N/A	CBT	M15SA00-009
COMTECH	ARR5729-5/57598	Solid State Amplifier	CBT	N/A	CBT	M3W1A00-1002
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	192282744
Control Company	4040	Therm./ Clock/ Humidity Monitor	10/9/2018	Biennial	10/9/2020	181647812
Control Company	4040	Therm./ Clock/ Humidity Monitor	2/17/2020	Biennial	2/17/2022	200113269
Keysight	772D	Dual Directional Coupler	CBT	N/A	CBT	MY52180215
Keysight Technologies	N6705B	DC Power Analyzer	4/27/2019	Biennial	4/27/2021	MY53004059
Keysight Technologies	85033E	Standard Mechanical Calibration Kit (DC to 9GHz, 3.5mm)	7/2/2019	Annual	7/2/2020	MY53401181
MCL	BW-N6W5+	6dB Attenuator	CBT	N/A	CBT	1139
MiniCircuits	VLF-6000+	Low Pass Filter	CBT	N/A	CBT	N/A
MiniCircuits	SLP-2400+	Low Pass Filter	CBT	N/A	CBT	R8979500903
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
Mini-Circuits	BW-N20W5	Power Attenuator	CBT	N/A	CBT	1226
Narda	4014C-6	4 - 8 GHz SMA 6 dB Directional Coupler	CBT	N/A	CBT	N/A
Narda	BW-53W2	Attenuator (3dB)	CBT	N/A	CBT	120
Narda	4772-3	Attenuator (3dB)	CBT	N/A	CBT	9406
Pasternack	PE2208-6	Bidirectional Coupler	CBT	N/A	CBT	N/A
Pasternack	PE2209-10	Bidirectional Coupler	CBT	N/A	CBT	N/A
Pasternack	NC-100	Torque Wrench	7/18/2019	Biennial	7/18/2020	N/A
Rohde & Schwarz	CMW500	Radio Communication Tester	10/4/2019	Annual	10/4/2020	166462
Rohde & Schwarz	CMW500	Radio Communication Tester	4/23/2020	Annual	4/23/2021	167283
Rohde & Schwarz	ZNL66	Vector Network Analyzer	10/11/2019	Annual	10/11/2020	101307
Seekonk	NC-100	Torque Wrench 5/16", 8" lbs	7/18/2019	Annual	7/18/2020	N/A
SPEAG	DAE4	Dasy Data Acquisition Electronics	7/11/2019	Annual	7/11/2020	1322
SPEAG	DAE4	Dasy Data Acquisition Electronics	9/17/2019	Annual	9/17/2020	1333
SPEAG	DAE4	Dasy Data Acquisition Electronics	3/12/2020	Annual	3/12/2021	1368
SPEAG	DAE4	Dasy Data Acquisition Electronics	12/5/2019	Annual	12/5/2020	1533
SPEAG	DAE4	Dasy Data Acquisition Electronics	9/12/2019	Annual	9/12/2020	1449
SPEAG	DAE4	Dasy Data Acquisition Electronics	7/11/2019	Annual	7/11/2020	1323
SPEAG	DAE4	Dasy Data Acquisition Electronics	5/20/2020	Annual	5/20/2021	728
SPEAG	D750V3	750 MHz Dipole	3/11/2020	Annual	3/11/2021	1054
SPEAG	D835V2	835 MHz SAR Dipole	1/13/2020	Annual	1/13/2021	44132
SPEAG	D835V2	835 MHz SAR Dipole	3/13/2019	Biennial	3/13/2021	44047
SPEAG	D1765V2	1765 MHz SAR Dipole	5/23/2018	Triennial	5/23/2021	1008
SPEAG	D1900V2	1900 MHz SAR Dipole	10/23/2018	Biennial	10/23/2020	54149
SPEAG	D1900V2	1900 MHz SAR Dipole	10/23/2018	Biennial	10/23/2020	54080
SPEAG	D2450V2	2450 MHz SAR Dipole	8/16/2018	Biennial	8/16/2020	981
SPEAG	D2450V2	2450 MHz SAR Dipole	8/14/2019	Annual	8/14/2020	719
SPEAG	D2600V2	2600 MHz SAR Dipole	6/14/2019	Biennial	6/14/2021	1064
SPEAG	D2600V2	2600 MHz SAR Dipole	4/11/2018	Triennial	4/11/2021	1004
SPEAG	D5GHZV2	5 GHz SAR Dipole	8/10/2018	Biennial	8/10/2020	1237
SPEAG	EX3DV4	SAR Probe	7/16/2019	Annual	7/16/2020	7410
SPEAG	EX3DV4	SAR Probe	9/19/2019	Annual	9/19/2020	7551
SPEAG	EX3DV4	SAR Probe	3/17/2020	Annual	3/17/2021	7527
SPEAG	EX3DV4	SAR Probe	12/11/2019	Annual	12/11/2020	7570
SPEAG	EX3DV4	SAR Probe	12/11/2019	Annual	12/11/2020	7571
SPEAG	EX3DV4	SAR Probe	9/19/2019	Annual	9/19/2020	7552
SPEAG	EX3DV4	SAR Probe	7/15/2019	Annual	7/15/2020	7547
SPEAG	EX3DV4	SAR Probe	5/18/2020	Annual	5/18/2021	7538

Note:

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




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MEASUREMENT UNCERTAINTIES

For SAR Measurements

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

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

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

Table A-1
DSI = 0, 2 P_{Limit} Calculations – UMTS Band 5

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]
836.60	4183	UMTS 850	RMC	24.36	19	Back	1:1	0.314	29.39	29.39
836.60	4183	UMTS 850	RMC	24.36	23	Top	1:1	0.223	30.88	
836.60	4183	UMTS 850	RMC	24.36	0	Right	1:1	0.241	30.54	
836.60	4183	UMTS 850	RMC	24.36	0	Left	1:1	0.091	34.77	

Table A-2
DSI = 1, 3 P_{Limit} Calculations – UMTS Band 5

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]
836.60	4183	UMTS 850	RMC	17.94	0	Back	1:1	0.665	19.71	19.53
826.40	4132	UMTS 850	RMC	17.84	0	Top	1:1	0.584	20.18	
836.60	4183	UMTS 850	RMC	17.94	0	Top	1:1	0.693	19.53	
846.60	4233	UMTS 850	RMC	18.32	0	Top	1:1	0.630	20.33	
846.60	4233	UMTS 850	RMC	24.36	0	Right	1:1	0.241	30.54	
846.60	4233	UMTS 850	RMC	24.36	0	Left	1:1	0.091	34.77	




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Table A-3
DSI = 0 P_{Limit} Calculations – UMTS Band 4

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]
1732.40	1412	UMTS 1750	RMC	24.32	19	Back	1:1	0.574	26.73	26.73
1732.40	1412	UMTS 1750	RMC	24.32	23	Top	1:1	0.549	26.92	
1732.40	1412	UMTS 1750	RMC	24.32	7	Right	1:1	0.115	33.71	
1732.40	1412	UMTS 1750	RMC	24.32	0	Left	1:1	0.172	31.96	

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

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]
1712.40	1312	UMTS 1750	RMC	14.31	0	Back	1:1	0.615	16.42	15.68
1732.40	1412	UMTS 1750	RMC	14.17	0	Back	1:1	0.623	16.23	
1752.60	1513	UMTS 1750	RMC	14.40	0	Back	1:1	0.745	15.68	
1732.40	1412	UMTS 1750	RMC	14.17	0	Top	1:1	0.619	16.25	
1732.40	1412	UMTS 1750	RMC	21.89	0	Right	1:1	0.196	28.97	
1732.40	1412	UMTS 1750	RMC	24.32	0	Left	1:1	0.172	31.96	




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Table A-5
DSI = 2 P_{Limit} Calculations – UMTS Band 4

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]
1712.40	1312	UMTS 1750	RMC	24.29	19	Back	1:1	0.372	28.58	26.73
1732.40	1412	UMTS 1750	RMC	24.32	19	Back	1:1	0.574	26.73	
1752.60	1513	UMTS 1750	RMC	24.48	19	Back	1:1	0.434	28.11	
1732.40	1412	UMTS 1750	RMC	24.32	23	Top	1:1	0.549	26.92	
1732.40	1412	UMTS 1750	RMC	21.89	0	Right	1:1	0.196	28.97	
1732.40	1412	UMTS 1750	RMC	24.32	0	Left	1:1	0.172	31.96	

Table A-6
DSI = 3 P_{Limit} Calculations – UMTS Band 4

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]
1712.40	1312	UMTS 1750	RMC	14.31	0	Back	1:1	0.615	16.42	15.68
1732.40	1412	UMTS 1750	RMC	14.17	0	Back	1:1	0.623	16.23	
1752.60	1513	UMTS 1750	RMC	14.40	0	Back	1:1	0.745	15.68	
1732.40	1412	UMTS 1750	RMC	14.17	0	Top	1:1	0.619	16.25	
1732.40	1412	UMTS 1750	RMC	24.32	7	Right	1:1	0.115	33.71	
1732.40	1412	UMTS 1750	RMC	24.32	0	Left	1:1	0.172	31.96	




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Table A-7
DSI = 0 P_{Limit} Calculations – UMTS Band 2

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]
1880.00	9400	UMTS 1900	RMC	23.77	19	Back	1:1	0.386	27.90	27.25
1880.00	9400	UMTS 1900	RMC	23.77	23	Top	1:1	0.449	27.25	
1880.00	9400	UMTS 1900	RMC	23.77	7	Right	1:1	0.156	31.84	
1880.00	9400	UMTS 1900	RMC	23.77	0	Left	1:1	0.250	29.79	

Table A-8
DSI = 1 P_{Limit} Calculations – UMTS Band 2

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]
1880.00	9400	UMTS 1900	RMC	12.30	0	Back	1:1	0.550	14.90	14.63
1852.40	9262	UMTS 1900	RMC	12.11	0	Top	1:1	0.559	14.64	
1880.00	9400	UMTS 1900	RMC	12.30	0	Top	1:1	0.554	14.86	
1907.60	9538	UMTS 1900	RMC	12.43	0	Top	1:1	0.602	14.63	
1880.00	9400	UMTS 1900	RMC	21.20	0	Right	1:1	0.274	26.82	
1880.00	9400	UMTS 1900	RMC	23.77	0	Left	1:1	0.250	29.79	




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Table A-9
DSI = 2 P_{Limit} Calculations – UMTS Band 2

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]
1880.00	9400	UMTS 1900	RMC	23.77	19	Back	1:1	0.386	27.90	26.82
1880.00	9400	UMTS 1900	RMC	23.77	23	Top	1:1	0.449	27.25	
1880.00	9400	UMTS 1900	RMC	21.20	0	Right	1:1	0.274	26.82	
1907.60	9538	UMTS 1900	RMC	23.77	0	Left	1:1	0.250	29.79	

Table A-10
DSI = 3 P_{Limit} Calculations – UMTS Band 2

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]
1880.00	9400	UMTS 1900	RMC	12.30	0	Back	1:1	0.550	14.90	14.63
1852.40	9262	UMTS 1900	RMC	12.11	0	Top	1:1	0.559	14.64	
1880.00	9400	UMTS 1900	RMC	12.30	0	Top	1:1	0.554	14.86	
1907.60	9538	UMTS 1900	RMC	12.43	0	Top	1:1	0.602	14.63	
1880.00	9400	UMTS 1900	RMC	23.77	7	Right	1:1	0.156	31.84	
1880.00	9400	UMTS 1900	RMC	23.77	0	Left	1:1	0.250	29.79	




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Table A-11
DSI = 0, 2 P_{Limit} Calculations – LTE Band 71

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	Md	LTE Band 71	20	24.13	0	QPSK	1	0	19	Back	1:1	0.202	31.08	30.66
680.50	133297	Md	LTE Band 71	20	23.12	1	QPSK	50	0	19	Back	1:1	0.176	30.66	
680.50	133297	Md	LTE Band 71	20	24.13	0	QPSK	1	0	23	Top	1:1	0.187	31.41	
680.50	133297	Md	LTE Band 71	20	23.12	1	QPSK	50	0	23	Top	1:1	0.169	30.84	
680.50	133297	Md	LTE Band 71	20	24.13	0	QPSK	1	0	0	Right	1:1	0.120	33.34	
680.50	133297	Md	LTE Band 71	20	23.12	1	QPSK	50	0	0	Right	1:1	0.105	32.91	
680.50	133297	Md	LTE Band 71	20	24.13	0	QPSK	1	0	0	Left	1:1	0.058	36.50	
680.50	133297	Md	LTE Band 71	20	23.12	1	QPSK	50	0	0	Left	1:1	0.053	35.88	

Table A-12
DSI = 1, 3 P_{Limit} Calculations – LTE Band 71

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	Md	LTE Band 71	20	14.00	0	QPSK	1	0	0	Back	1:1	0.254	19.95	19.64
680.50	133297	Md	LTE Band 71	20	14.03	0	QPSK	50	0	0	Back	1:1	0.275	19.64	
680.50	133297	Md	LTE Band 71	20	14.00	0	QPSK	1	0	0	Top	1:1	0.215	20.68	
680.50	133297	Md	LTE Band 71	20	14.03	0	QPSK	50	0	0	Top	1:1	0.228	20.45	
680.50	133297	Md	LTE Band 71	20	24.13	0	QPSK	1	0	0	Right	1:1	0.120	33.34	
680.50	133297	Md	LTE Band 71	20	23.12	1	QPSK	50	0	0	Right	1:1	0.105	32.91	
680.50	133297	Md	LTE Band 71	20	24.13	0	QPSK	1	0	0	Left	1:1	0.058	36.50	
680.50	133297	Md	LTE Band 71	20	23.12	1	QPSK	50	0	0	Left	1:1	0.053	35.88	




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Table A-13
DSI = 0, 2 P_{Limit} Calculations – LTE Band 12

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]
707.50	23095	Md	LTE Band 12	10	23.89	0	QPSK	1	49	19	Back	1:1	0.223	30.41	30.03
707.50	23095	Md	LTE Band 12	10	22.95	1	QPSK	25	12	19	Back	1:1	0.172	30.59	
707.50	23095	Md	LTE Band 12	10	23.89	0	QPSK	1	49	23	Top	1:1	0.221	30.45	
707.50	23095	Md	LTE Band 12	10	22.95	1	QPSK	25	12	23	Top	1:1	0.196	30.03	
707.50	23095	Md	LTE Band 12	10	23.89	0	QPSK	1	49	0	Right	1:1	0.114	33.32	
707.50	23095	Md	LTE Band 12	10	22.95	1	QPSK	25	12	0	Right	1:1	0.099	32.99	
707.50	23095	Md	LTE Band 12	10	23.89	0	QPSK	1	49	0	Left	1:1	0.077	35.03	
707.50	23095	Md	LTE Band 12	10	22.95	1	QPSK	25	12	0	Left	1:1	0.060	35.17	

Table A-14
DSI = 1, 3 P_{Limit} Calculations – LTE Band 12

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]
707.50	23095	Md	LTE Band 12	10	15.70	0	QPSK	1	49	0	Back	1:1	0.349	20.27	19.94
707.50	23095	Md	LTE Band 12	10	15.87	0	QPSK	25	12	0	Back	1:1	0.392	19.94	
707.50	23095	Md	LTE Band 12	10	15.70	0	QPSK	1	49	0	Top	1:1	0.326	20.57	
707.50	23095	Md	LTE Band 12	10	15.87	0	QPSK	25	12	0	Top	1:1	0.338	20.58	
707.50	23095	Md	LTE Band 12	10	23.89	0	QPSK	1	49	0	Right	1:1	0.114	33.32	
707.50	23095	Md	LTE Band 12	10	22.95	1	QPSK	25	12	0	Right	1:1	0.099	32.99	
707.50	23095	Md	LTE Band 12	10	23.89	0	QPSK	1	49	0	Left	1:1	0.077	35.03	
707.50	23095	Md	LTE Band 16	10	22.95	1	QPSK	25	12	0	Left	1:1	0.060	35.17	




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Table A-15
DSI = 0, 2 P_{Limit} Calculations – LTE Band 13

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]
782.00	23230	Md	LTE Band 13	10	23.74	0	QPSK	1	49	19	Back	1:1	0.339	28.44	28.24
782.00	23230	Md	LTE Band 13	10	22.85	1	QPSK	25	12	19	Back	1:1	0.289	28.24	
782.00	23230	Md	LTE Band 13	10	23.74	0	QPSK	1	49	23	Top	1:1	0.316	28.74	
782.00	23230	Md	LTE Band 13	10	22.85	1	QPSK	25	12	23	Top	1:1	0.251	28.85	
782.00	23230	Md	LTE Band 13	10	23.74	0	QPSK	1	49	0	Right	1:1	0.154	31.86	
782.00	23230	Md	LTE Band 13	10	22.85	1	QPSK	25	12	0	Right	1:1	0.131	31.68	
782.00	23230	Md	LTE Band 13	10	23.74	0	QPSK	1	49	0	Left	1:1	0.089	34.25	
782.00	23230	Md	LTE Band 13	10	22.85	1	QPSK	25	12	0	Left	1:1	0.078	33.93	

Table A-16
DSI = 1, 3 P_{Limit} Calculations – LTE Band 13

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]
782.00	23230	Md	LTE Band 13	10	15.58	0	QPSK	1	49	0	Back	1:1	0.398	19.58	19.09
782.00	23230	Md	LTE Band 13	10	15.65	0	QPSK	25	12	0	Back	1:1	0.453	19.09	
782.00	23230	Md	LTE Band 13	10	15.58	0	QPSK	1	49	0	Top	1:1	0.382	19.76	
782.00	23230	Md	LTE Band 13	10	15.65	0	QPSK	25	12	0	Top	1:1	0.401	19.62	
782.00	23230	Md	LTE Band 13	10	23.74	0	QPSK	1	49	0	Right	1:1	0.154	31.86	
782.00	23230	Md	LTE Band 13	10	22.85	1	QPSK	25	12	0	Right	1:1	0.131	31.68	
782.00	23230	Md	LTE Band 13	10	23.74	0	QPSK	1	49	0	Left	1:1	0.089	34.25	
782.00	23230	Md	LTE Band 13	10	22.85	1	QPSK	25	12	0	Left	1:1	0.078	33.93	




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Table A-17
DSI = 0, 2 P_{Limit} Calculations – LTE Band 26

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]
831.50	26865	Mid	LTE Band 26 (Cell)	15	24.21	0	QPSK	1	74	19	Back	1:1	0.338	28.92	28.77
831.50	26865	Mid	LTE Band 26 (Cell)	15	23.12	1	QPSK	36	37	19	Back	1:1	0.272	28.77	
831.50	26865	Mid	LTE Band 26 (Cell)	15	24.21	0	QPSK	1	74	23	Top	1:1	0.218	30.83	
831.50	26865	Mid	LTE Band 26 (Cell)	15	23.12	1	QPSK	36	37	23	Top	1:1	0.179	30.59	
831.50	26865	Mid	LTE Band 26 (Cell)	15	24.21	0	QPSK	1	74	0	Right	1:1	0.249	30.25	
831.50	26865	Mid	LTE Band 26 (Cell)	15	23.12	1	QPSK	36	37	0	Right	1:1	0.201	30.09	
831.50	26865	Mid	LTE Band 26 (Cell)	15	24.21	0	QPSK	1	74	0	Left	1:1	0.084	34.97	
831.50	26865	Mid	LTE Band 26 (Cell)	15	23.12	1	QPSK	36	37	0	Left	1:1	0.073	34.49	

Table A-18
DSI = 1, 3 P_{Limit} Calculations – LTE Band 26

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]
831.50	26865	Mid	LTE Band 26 (Cell)	15	16.14	0	QPSK	1	74	0	Back	1:1	0.425	19.86	19.69
831.50	26865	Mid	LTE Band 26 (Cell)	15	16.12	0	QPSK	36	37	0	Back	1:1	0.440	19.69	
831.50	26865	Mid	LTE Band 26 (Cell)	15	16.14	0	QPSK	1	74	0	Top	1:1	0.411	20.00	
831.50	26865	Mid	LTE Band 26 (Cell)	15	16.12	0	QPSK	36	37	0	Top	1:1	0.425	19.84	
831.50	26865	Mid	LTE Band 26 (Cell)	15	24.21	0	QPSK	1	74	0	Right	1:1	0.249	30.25	
831.50	26865	Mid	LTE Band 26 (Cell)	15	23.12	1	QPSK	36	37	0	Right	1:1	0.201	30.09	
831.50	26865	Mid	LTE Band 26 (Cell)	15	24.21	0	QPSK	1	74	0	Left	1:1	0.084	34.97	
831.50	26865	Mid	LTE Band 26 (Cell)	15	23.12	1	QPSK	36	37	0	Left	1:1	0.073	34.49	




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Table A-19
DSI = 0, 2 P_{Limit} Calculations – LTE Band 5

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]
836.50	20525	Mid	LTE Band 5 (Cell)	10	24.34	0	QPSK	1	49	19	Back	1:1	0.343	28.99	28.79
836.50	20525	Mid	LTE Band 5 (Cell)	10	23.40	1	QPSK	25	25	19	Back	1:1	0.289	28.79	
836.50	20525	Mid	LTE Band 5 (Cell)	10	24.34	0	QPSK	1	49	23	Top	1:1	0.315	29.36	
836.50	20525	Mid	LTE Band 5 (Cell)	10	23.40	1	QPSK	25	25	23	Top	1:1	0.245	29.51	
836.50	20525	Mid	LTE Band 5 (Cell)	10	24.34	0	QPSK	1	49	0	Right	1:1	0.223	30.86	
836.50	20525	Mid	LTE Band 5 (Cell)	10	23.40	1	QPSK	25	25	0	Right	1:1	0.189	30.64	
836.50	20525	Mid	LTE Band 5 (Cell)	10	24.34	0	QPSK	1	49	0	Left	1:1	0.069	35.95	
836.50	20525	Mid	LTE Band 5 (Cell)	10	23.40	1	QPSK	25	25	0	Left	1:1	0.065	35.27	

Table A-20
DSI = 1, 3 P_{Limit} Calculations – LTE Band 5

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]
836.50	20525	Mid	LTE Band 5 (Cell)	10	16.37	0	QPSK	1	49	0	Back	1:1	0.377	20.61	20.42
836.50	20525	Mid	LTE Band 5 (Cell)	10	16.36	0	QPSK	25	25	0	Back	1:1	0.393	20.42	
836.50	20525	Mid	LTE Band 5 (Cell)	10	16.37	0	QPSK	1	49	0	Top	1:1	0.370	20.69	
836.50	20525	Mid	LTE Band 5 (Cell)	10	16.36	0	QPSK	25	25	0	Top	1:1	0.391	20.44	
836.50	20525	Mid	LTE Band 5 (Cell)	10	24.34	0	QPSK	1	49	0	Right	1:1	0.223	30.86	
836.50	20525	Mid	LTE Band 5 (Cell)	10	23.40	1	QPSK	25	25	0	Right	1:1	0.189	30.64	
836.50	20525	Mid	LTE Band 5 (Cell)	10	24.34	0	QPSK	1	49	0	Left	1:1	0.069	35.95	
836.50	20525	Mid	LTE Band 5 (Cell)	10	23.40	1	QPSK	25	25	0	Left	1:1	0.065	35.27	




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Table A-21
DSI = 0, 2 P_{Limit} Calculations – LTE Band 66

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]
1745.00	132322	Mid	LTE Band 66 (AWS)	20	24.50	0	QPSK	1	50	19	Back	1:1	0.370	28.82	26.06
1745.00	132322	Mid	LTE Band 66 (AWS)	20	23.74	1	QPSK	50	25	19	Back	1:1	0.304	28.91	
1720.00	132072	Low	LTE Band 66 (AWS)	20	24.37	0	QPSK	1	50	23	Top	1:1	0.559	26.90	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	24.50	0	QPSK	1	50	23	Top	1:1	0.666	26.27	
1770.00	132572	High	LTE Band 66 (AWS)	20	24.20	0	QPSK	1	0	23	Top	1:1	0.651	26.06	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	23.74	1	QPSK	50	25	23	Top	1:1	0.542	26.40	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	23.70	1	QPSK	100	0	23	Top	1:1	0.514	26.59	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	24.50	0	QPSK	1	50	0	Right	1:1	0.433	28.14	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	23.74	1	QPSK	50	25	0	Right	1:1	0.347	28.34	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	24.50	0	QPSK	1	50	0	Left	1:1	0.145	32.89	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	23.74	1	QPSK	50	25	0	Left	1:1	0.117	33.06	

Table A-22
DSI = 1, 3 P_{Limit} Calculations – LTE Band 66

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]
1720.00	132072	Low	LTE Band 66 (AWS)	20	13.20	0	QPSK	1	50	0	Back	1:1	0.534	15.92	15.76
1720.00	132072	Low	LTE Band 66 (AWS)	20	13.25	0	QPSK	50	25	0	Back	1:1	0.561	15.76	
1720.00	132072	Low	LTE Band 66 (AWS)	20	13.20	0	QPSK	1	50	0	Top	1:1	0.480	16.39	
1720.00	132072	Low	LTE Band 66 (AWS)	20	13.25	0	QPSK	50	25	0	Top	1:1	0.465	16.58	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	24.50	0	QPSK	1	50	0	Right	1:1	0.433	28.14	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	23.74	1	QPSK	50	25	0	Right	1:1	0.347	28.34	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	24.50	0	QPSK	1	50	0	Left	1:1	0.145	32.89	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	23.74	1	QPSK	50	25	0	Left	1:1	0.117	33.06	




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Table A-23
DSI = 0 P_{Limit} Calculations – LTE Band 25

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]
1905.00	26590	High	LTE Band 25 (PCS)	20	24.21	0	QPSK	1	50	19	Back	1:1	0.306	29.35	26.90
1905.00	26590	High	LTE Band 25 (PCS)	20	23.30	1	QPSK	50	50	19	Back	1:1	0.253	29.27	
1905.00	26590	High	LTE Band 25 (PCS)	20	24.21	0	QPSK	1	50	23	Top	1:1	0.529	26.98	
1905.00	26590	High	LTE Band 25 (PCS)	20	23.30	1	QPSK	50	50	23	Top	1:1	0.437	26.90	
1905.00	26590	High	LTE Band 25 (PCS)	20	24.21	0	QPSK	1	50	7	Right	1:1	0.155	32.31	
1905.00	26590	High	LTE Band 25 (PCS)	20	23.30	1	QPSK	50	50	7	Right	1:1	0.131	32.13	
1905.00	26590	High	LTE Band 25 (PCS)	20	24.21	0	QPSK	1	50	0	Left	1:1	0.216	30.87	
1905.00	26590	High	LTE Band 25 (PCS)	20	23.30	1	QPSK	50	50	0	Left	1:1	0.193	30.44	

Table A-24
DSI = 1 P_{Limit} Calculations – LTE Band 25

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]
1905.00	26590	High	LTE Band 25 (PCS)	20	12.62	0	QPSK	1	99	0	Back	1:1	0.526	15.41	14.25
1905.00	26590	High	LTE Band 25 (PCS)	20	12.64	0	QPSK	50	25	0	Back	1:1	0.542	15.30	
1905.00	26590	High	LTE Band 25 (PCS)	20	12.62	0	QPSK	1	99	0	Top	1:1	0.632	14.61	
1860.00	26140	Low	LTE Band 25 (PCS)	20	12.37	0	QPSK	50	50	0	Top	1:1	0.648	14.25	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	12.57	0	QPSK	50	50	0	Top	1:1	0.671	14.30	
1905.00	26590	High	LTE Band 25 (PCS)	20	12.64	0	QPSK	50	25	0	Top	1:1	0.648	14.52	
1905.00	26590	High	LTE Band 25 (PCS)	20	12.61	0	QPSK	100	0	0	Top	1:1	0.642	14.53	
1905.00	26590	High	LTE Band 25 (PCS)	20	21.16	0	QPSK	1	0	0	Right	1:1	0.267	26.89	
1905.00	26590	High	LTE Band 25 (PCS)	20	21.21	0	QPSK	50	50	0	Right	1:1	0.264	26.99	
1905.00	26590	High	LTE Band 25 (PCS)	20	24.21	0	QPSK	1	50	0	Left	1:1	0.216	30.87	
1905.00	26590	High	LTE Band 25 (PCS)	20	23.30	1	QPSK	50	50	0	Left	1:1	0.193	30.44	




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Table A-25
DSI = 2 P_{Limit} Calculations – LTE Band 25

MEASUREMENT RESULTS															
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Spacing (mm)	Side	Modulation	RB Size	RB Offset	Duty Cycle	SAR (1g)	PLimit	Minimum PLimit
MHz	Ch.												(W/kg)	[dBm]	[dBm]
1905.0	26590	High	LTE Band 25 (PCS)	20	24.21	0	19	Back	QPSK	1	50	1:1	0.306	29.35	26.89
1905.0	26590	High	LTE Band 25 (PCS)	20	23.30	1	19	Back	QPSK	50	50	1:1	0.253	29.27	
1905.0	26590	High	LTE Band 25 (PCS)	20	24.21	0	23	Top	QPSK	1	50	1:1	0.529	26.98	
1905.0	26590	High	LTE Band 25 (PCS)	20	23.30	1	23	Top	QPSK	50	50	1:1	0.437	26.90	
1905.0	26590	High	LTE Band 25 (PCS)	20	21.16	0	0	Right	QPSK	1	0	1:1	0.267	26.89	
1905.0	26590	High	LTE Band 25 (PCS)	20	21.21	0	0	Right	QPSK	50	0	1:1	0.264	26.99	
1905.0	26590	High	LTE Band 25 (PCS)	20	24.21	0	0	Left	QPSK	1	50	1:1	0.216	30.87	
1905.0	26590	High	LTE Band 25 (PCS)	20	23.30	1	0	Left	QPSK	50	50	1:1	0.193	30.44	

Table A-26
DSI = 3 P_{Limit} Calculations – LTE Band 25

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]
1905.00	26590	High	LTE Band 2 (PCS)	20	12.62	0	QPSK	1	99	0	Back	1:1	0.526	15.41	14.25
1905.00	26590	High	LTE Band 2 (PCS)	20	12.64	0	QPSK	50	25	0	Back	1:1	0.542	15.30	
1905.00	26590	High	LTE Band 2 (PCS)	20	12.62	0	QPSK	1	99	0	Top	1:1	0.632	14.61	
1860.00	26140	Low	LTE Band 2 (PCS)	20	12.37	0	QPSK	50	50	0	Top	1:1	0.648	14.25	
1882.50	26365	Mid	LTE Band 2 (PCS)	20	12.57	0	QPSK	50	50	0	Top	1:1	0.671	14.30	
1905.00	26590	High	LTE Band 2 (PCS)	20	12.64	0	QPSK	50	25	0	Top	1:1	0.648	14.52	
1905.00	26590	High	LTE Band 2 (PCS)	20	12.61	0	QPSK	100	0	0	Top	1:1	0.642	14.53	
1905.00	26590	High	LTE Band 2 (PCS)	20	24.21	0	QPSK	1	50	7	Right	1:1	0.155	32.31	
1905.00	26590	High	LTE Band 2 (PCS)	20	23.30	1	QPSK	50	50	7	Right	1:1	0.131	32.13	
1905.00	26590	High	LTE Band 2 (PCS)	20	24.21	0	QPSK	1	50	0	Left	1:1	0.216	30.87	
1905.00	26590	High	LTE Band 2 (PCS)	20	23.30	1	QPSK	50	50	0	Left	1:1	0.193	30.44	




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Table A-27
DSI = 0 P_{Limit} Calculations – LTE Band 7

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]
2510.00	20850	Low	LTE Band 7	20	24.43	0	QPSK	1	50	19	Back	1:1	0.159	32.42	30.13
2510.00	20850	Low	LTE Band 7	20	23.63	1	QPSK	50	50	19	Back	1:1	0.131	32.46	
2510.00	20850	Low	LTE Band 7	20	24.43	0	QPSK	1	50	23	Top	1:1	0.202	31.38	
2510.00	20850	Low	LTE Band 7	20	23.63	1	QPSK	50	50	23	Top	1:1	0.161	31.56	
2510.00	20850	Low	LTE Band 7	20	24.43	0	QPSK	1	50	7	Right	1:1	0.256	30.35	
2510.00	20850	Low	LTE Band 7	20	23.63	1	QPSK	50	50	7	Right	1:1	0.224	30.13	
2510.00	20850	Low	LTE Band 7	20	24.43	0	QPSK	1	50	0	Left	1:1	0.141	32.94	
2510.00	20850	Low	LTE Band 7	20	23.63	1	QPSK	50	50	0	Left	1:1	0.121	32.80	

Table A-28
DSI = 1 P_{Limit} Calculations – LTE Band 7

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]
2510.00	20850	Low	LTE Band 7	20	12.78	0	QPSK	1	0	0	Back	1:1	0.406	16.69	14.51
2510.00	20850	Low	LTE Band 7	20	12.95	0	QPSK	50	0	0	Back	1:1	0.420	16.72	
2510.00	20850	Low	LTE Band 7	20	12.78	0	QPSK	1	0	0	Top	1:1	0.601	14.99	
2535.00	21100	Mid	LTE Band 7	20	12.62	0	QPSK	1	0	0	Top	1:1	0.612	14.75	
2560.00	21350	High	LTE Band 7	20	12.34	0	QPSK	1	0	0	Top	1:1	0.607	14.51	
2510.00	20850	Low	LTE Band 7	20	12.95	0	QPSK	50	0	0	Top	1:1	0.621	15.02	
2510.00	20850	Low	LTE Band 7	20	12.78	0	QPSK	1	0	0	Right	1:1	0.051	25.70	
2510.00	20850	Low	LTE Band 7	20	12.95	0	QPSK	50	0	0	Right	1:1	0.060	25.17	
2510.00	20850	Low	LTE Band 7	20	24.43	0	QPSK	1	50	0	Left	1:1	0.141	32.94	
2510.00	20850	Low	LTE Band 7	20	23.63	1	QPSK	50	50	0	Left	1:1	0.121	32.80	




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Table A-29
DSI = 2 P_{Limit} Calculations – LTE Band 7

MEASUREMENT RESULTS															
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Spacing (mm)	Side	Modulation	RB Size	RB Offset	Duty Cycle	SAR (1g)	PLimit	Minimum PLimit
MHz	Ch.												(W/kg)	[dBm]	[dBm]
2510.0	20850	Low	LTE Band 7	20	24.43	0	19	Back	QPSK	1	50	1:1	0.159	32.42	25.17
2510.0	20850	Low	LTE Band 7	20	23.63	1	19	Back	QPSK	50	50	1:1	0.131	32.46	
2510.0	20850	Low	LTE Band 7	20	24.43	0	23	Top	QPSK	1	50	1:1	0.202	31.38	
2510.0	20850	Low	LTE Band 7	20	23.63	1	23	Top	QPSK	50	50	1:1	0.161	31.56	
2510.0	20850	Low	LTE Band 7	20	12.78	0	0	Right	QPSK	1	0	1:1	0.051	25.70	
2510.0	20850	Low	LTE Band 7	20	12.95	0	0	Right	QPSK	50	0	1:1	0.060	25.17	
2510.0	20850	Low	LTE Band 7	20	24.43	0	0	Left	QPSK	1	50	1:1	0.141	32.94	
2510.0	20850	Low	LTE Band 7	20	23.63	1	0	Left	QPSK	50	50	1:1	0.121	32.80	

Table A-30
DSI = 3 P_{Limit} Calculations – LTE Band 7

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]
2510.00	20850	Low	LTE Band 7	20	12.78	0	QPSK	1	0	0	Back	1:1	0.406	16.69	14.51
2510.00	20850	Low	LTE Band 7	20	12.95	0	QPSK	50	0	0	Back	1:1	0.420	16.72	
2510.00	20850	Low	LTE Band 7	20	12.78	0	QPSK	1	0	0	Top	1:1	0.601	14.99	
2535.00	21100	Mid	LTE Band 7	20	12.62	0	QPSK	1	0	0	Top	1:1	0.612	14.75	
21350.00	21350	High	LTE Band 7	20	12.34	0	QPSK	1	0	0	Top	1:1	0.607	14.51	
2510.00	20850	Low	LTE Band 7	20	12.95	0	QPSK	50	0	0	Top	1:1	0.621	15.02	
2510.00	20850	Low	LTE Band 7	20	24.43	0	QPSK	1	50	7	Right	1:1	0.256	30.35	
2510.00	20850	Low	LTE Band 7	20	23.63	1	QPSK	50	50	7	Right	1:1	0.224	30.13	
2510.00	20850	Low	LTE Band 7	20	24.43	0	QPSK	1	50	0	Left	1:1	0.141	32.94	
2510.00	20850	Low	LTE Band 7	20	23.63	1	QPSK	50	50	0	Left	1:1	0.121	32.80	




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Table A-31
DSI = 0 P_{Limit} Calculations – LTE Band 41

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]
2506.00	39750	Low	LTE Band 41	20	24.50	0	QPSK	1	0	19	Back	1:1.58	0.120	31.72	29.42
2506.00	39750	Low	LTE Band 41	20	23.58	1	QPSK	50	0	19	Back	1:1.58	0.092	31.96	
2506.00	39750	Low	LTE Band 41	20	24.50	0	QPSK	1	0	23	Top	1:1.58	0.153	30.67	
2506.00	39750	Low	LTE Band 41	20	23.58	1	QPSK	50	0	23	Top	1:1.58	0.120	30.80	
2506.00	39750	Low	LTE Band 41	20	24.50	0	QPSK	1	0	7	Right	1:1.58	0.102	32.43	
2506.00	39750	Low	LTE Band 41	20	23.58	1	QPSK	50	0	7	Right	1:1.58	0.076	32.79	
2506.00	39750	Low	LTE Band 41	20	24.50	0	QPSK	1	0	0	Left	1:1.58	0.193	29.66	
2506.00	39750	Low	LTE Band 41	20	23.58	1	QPSK	50	0	0	Left	1:1.58	0.165	29.42	

Table A-32
DSI = 1 P_{Limit} Calculations – LTE Band 41

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]
2506.00	39750	Low	LTE Band 41	20	14.46	0	QPSK	1	0	0	Back	1:1.58	0.265	18.24	15.97
2506.00	39750	Low	LTE Band 41	20	14.52	0	QPSK	50	0	0	Back	1:1.58	0.270	18.22	
2506.00	39750	Low	LTE Band 41	20	14.46	0	QPSK	1	0	0	Top	1:1.58	0.447	15.97	
2506.00	39750	Low	LTE Band 41	20	14.52	0	QPSK	50	0	0	Top	1:1.58	0.437	16.13	
2506.00	39750	Low	LTE Band 41	20	14.46	0	QPSK	1	0	0	Right	1:1.58	0.037	26.79	
2506.00	39750	Low	LTE Band 41	20	14.52	0	QPSK	50	0	0	Right	1:1.58	0.035	27.09	
2506.00	39750	Low	LTE Band 41	20	24.50	0	QPSK	1	0	0	Left	1:1.58	0.193	29.66	
2506.00	39750	Low	LTE Band 41	20	23.58	1	QPSK	50	0	0	Left	1:1.58	0.165	29.42	




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Table A-33
DSI = 2 P_{Limit} Calculations – LTE Band 41

MEASUREMENT RESULTS															
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Spacing (mm)	Side	Modulation	RB Size	RB Offset	Duty Cycle	SAR (1g)	PLimit	Minimum PLimit
MHz	Ch.	Low											(W/kg)	[dBm]	[dBm]
2506.0	39750	Low	LTE Band 41	20	24.50	0	19	Back	QPSK	1	0	1:1.58	0.120	31.72	26.79
2506.0	39750	Low	LTE Band 41	20	23.58	1	19	Back	QPSK	50	0	1:1.58	0.092	31.96	
2506.0	39750	Low	LTE Band 41	20	24.50	0	23	Top	QPSK	1	0	1:1.58	0.153	30.67	
2506.0	39750	Low	LTE Band 41	20	23.58	1	23	Top	QPSK	50	0	1:1.58	0.120	30.80	
2506.0	39750	Low	LTE Band 41	20	14.46	0	0	Right	QPSK	1	0	1:1.58	0.037	26.79	
2506.0	39750	Low	LTE Band 41	20	14.52	0	0	Right	QPSK	50	0	1:1.58	0.035	27.09	
2506.0	39750	Low	LTE Band 41	20	24.50	0	0	Left	QPSK	1	0	1:1.58	0.193	29.66	
2506.0	39750	Low	LTE Band 41	20	23.58	1	0	Left	QPSK	50	0	1:1.58	0.165	29.42	

Table A-34
DSI = 3 P_{Limit} Calculations – LTE Band 41

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.	Low											(W/kg)	[dBm]	[dBm]
2506.00	39750	Low	LTE Band 41	20	14.46	0	QPSK	1	0	0	Back	1:1.58	0.265	18.24	15.97
2506.00	39750	Low	LTE Band 41	20	14.52	0	QPSK	50	0	0	Back	1:1.58	0.270	18.22	
2506.00	39750	Low	LTE Band 41	20	14.46	0	QPSK	1	0	0	Top	1:1.58	0.447	15.97	
2506.00	39750	Low	LTE Band 41	20	14.52	0	QPSK	50	0	0	Top	1:1.58	0.437	16.13	
2506.00	39750	Low	LTE Band 41	20	24.50	0	QPSK	1	0	7	Right	1:1.58	0.102	32.43	
2506.00	39750	Low	LTE Band 41	20	23.58	1	QPSK	50	0	7	Right	1:1.58	0.076	32.79	
2506.00	39750	Low	LTE Band 41	20	24.50	0	QPSK	1	0	0	Left	1:1.58	0.193	29.66	
2506.00	39750	Low	LTE Band 41	20	23.58	1	QPSK	50	0	0	Left	1:1.58	0.165	29.42	




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Table A-35
DSI = 0, 2 P_{Limit} Calculations – NR Band n71

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	24.77	0.0	DFT-s-OFDM QPSK	1	1	19	Back	1:1	0.218	31.39	30.20
680.50	136100	Mid	NR Band n71	20	24.27	0.0	DFT-s-OFDM QPSK	50	28	19	Back	1:1	0.255	30.20	
680.50	136100	Mid	NR Band n71	20	24.77	0.0	DFT-s-OFDM QPSK	1	1	23	Top	1:1	0.202	31.72	
680.50	136100	Mid	NR Band n71	20	24.27	0.0	DFT-s-OFDM QPSK	50	28	23	Top	1:1	0.212	31.01	
680.50	136100	Mid	NR Band n71	20	24.77	0.0	DFT-s-OFDM QPSK	1	1	0	Right	1:1	0.125	33.80	
680.50	136100	Mid	NR Band n71	20	24.27	0.0	DFT-s-OFDM QPSK	50	28	0	Right	1:1	0.139	32.84	
680.50	136100	Mid	NR Band n71	20	24.77	0.0	DFT-s-OFDM QPSK	1	1	0	Left	1:1	0.055	37.37	
680.50	136100	Mid	NR Band n71	20	24.27	0.0	DFT-s-OFDM QPSK	50	28	0	Left	1:1	0.085	34.98	

Table A-36
DSI = 1, 3 P_{Limit} Calculations – NR Band n71

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	14.79	0.0	DFT-s-OFDM QPSK	1	53	0	Back	1:1	0.259	20.66	20.20
680.50	136100	Mid	NR Band n71	20	14.80	0.0	DFT-s-OFDM QPSK	50	56	0	Back	1:1	0.266	20.55	
680.50	136100	Mid	NR Band n71	20	14.79	0.0	DFT-s-OFDM QPSK	1	53	0	Top	1:1	0.224	21.29	
680.50	136100	Mid	NR Band n71	20	14.80	0.0	DFT-s-OFDM QPSK	50	56	0	Top	1:1	0.214	21.50	
680.50	136100	Mid	NR Band n71	20	24.77	0.0	DFT-s-OFDM QPSK	1	1	0	Right	1:1	0.125	33.80	
680.50	136100	Mid	NR Band n71	20	24.27	0.0	DFT-s-OFDM QPSK	50	28	0	Right	1:1	0.139	32.84	
680.50	136100	Mid	NR Band n71	20	24.77	0.0	DFT-s-OFDM QPSK	1	1	0	Left	1:1	0.055	37.37	
680.50	136100	Mid	NR Band n71	20	24.27	0.0	DFT-s-OFDM QPSK	50	28	0	Left	1:1	0.085	34.98	
680.50	136100	Mid	NR Band n71	20	14.81	0.0	CP-OFDM QPSK	1	1	0	Back	1:1	0.289	20.20	




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Table A-37
DSI = 0, 2 P_{Limit} Calculations – NR Band n5

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]
836.50	167300	Mid	NR Band n5	20	24.38	0.0	DFT-s-OFDM QPSK	1	104	19	Back	1:1	0.316	29.38	28.99
836.50	167300	Mid	NR Band n5	20	24.18	0.0	DFT-s-OFDM QPSK	50	28	19	Back	1:1	0.330	28.99	
836.50	167300	Mid	NR Band n5	20	24.38	0.0	DFT-s-OFDM QPSK	1	104	23	Top	1:1	0.225	30.86	
836.50	167300	Mid	NR Band n5	20	24.18	0.0	DFT-s-OFDM QPSK	50	28	23	Top	1:1	0.223	30.70	
836.50	167300	Mid	NR Band n5	20	24.38	0.0	DFT-s-OFDM QPSK	1	104	0	Right	1:1	0.236	30.65	
836.50	167300	Mid	NR Band n5	20	24.18	0.0	DFT-s-OFDM QPSK	50	28	0	Right	1:1	0.233	30.51	
836.50	167300	Mid	NR Band n5	20	24.38	0.0	DFT-s-OFDM QPSK	1	104	0	Left	1:1	0.084	35.14	
836.50	167300	Mid	NR Band n5	20	24.18	0.0	DFT-s-OFDM QPSK	50	28	0	Left	1:1	0.082	35.04	

Table A-38
DSI = 1, 3 P_{Limit} Calculations – NR Band n5

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]
836.50	167300	Mid	NR Band n5	20	16.64	0.0	DFT-s-OFDM QPSK	1	53	0	Back	1:1	0.494	19.70	19.42
836.50	167300	Mid	NR Band n5	20	16.36	0.0	DFT-s-OFDM QPSK	50	56	0	Back	1:1	0.437	19.96	
836.50	167300	Mid	NR Band n5	20	16.64	0.0	DFT-s-OFDM QPSK	1	53	0	Top	1:1	0.527	19.42	
836.50	167300	Mid	NR Band n5	20	16.36	0.0	DFT-s-OFDM QPSK	50	56	0	Top	1:1	0.459	19.74	
836.50	167300	Mid	NR Band n5	20	24.38	0.0	DFT-s-OFDM QPSK	1	104	0	Right	1:1	0.236	30.65	
836.50	167300	Mid	NR Band n5	20	24.18	0.0	DFT-s-OFDM QPSK	50	28	0	Right	1:1	0.233	30.51	
836.50	167300	Mid	NR Band n5	20	24.38	0.0	DFT-s-OFDM QPSK	1	104	0	Left	1:1	0.084	35.14	
836.50	167300	Mid	NR Band n5	20	24.18	0.0	DFT-s-OFDM QPSK	50	28	0	Left	1:1	0.082	35.04	
836.50	167300	Mid	NR Band n5	20	16.31	0.0	CP-OFDM QPSK	1	1	0	Top	1:1	0.437	19.91	




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Table A-39
DSI = 0, 2 P_{Limit} Calculations – NR Band n66

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.	Low											(W/kg)	[dBm]	[dBm]
1720.00	344000	Low	NR Band n66	20	24.18	0.0	DFT-s-OFDM QPSK	1	53	19	Back	1:1	0.390	28.27	27.28
1720.00	344000	Low	NR Band n66	20	24.15	0.0	DFT-s-OFDM QPSK	50	28	19	Back	1:1	0.355	28.65	
1720.00	344000	Low	NR Band n66	20	24.18	0.0	DFT-s-OFDM QPSK	1	53	23	Top	1:1	0.490	27.28	
1720.00	344000	Low	NR Band n66	20	24.15	0.0	DFT-s-OFDM QPSK	50	28	23	Top	1:1	0.460	27.52	
1720.00	344000	Low	NR Band n66	20	24.18	0.0	DFT-s-OFDM QPSK	1	53	0	Right	1:1	0.266	29.93	
1720.00	344000	Low	NR Band n66	20	24.15	0.0	DFT-s-OFDM QPSK	50	28	0	Right	1:1	0.252	30.14	
1720.00	344000	Low	NR Band n66	20	24.18	0.0	DFT-s-OFDM QPSK	1	53	0	Left	1:1	0.092	34.54	
1720.00	344000	Low	NR Band n66	20	24.15	0.0	DFT-s-OFDM QPSK	50	28	0	Left	1:1	0.091	34.56	

Table A-40
DSI = 1, 3 P_{Limit} Calculations – NR Band n66

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.	Low											(W/kg)	[dBm]	[dBm]
1720.00	344000	Low	NR Band n66	20	13.21	0.0	DFT-s-OFDM QPSK	1	53	0	Back	1:1	0.515	16.09	15.73
1720.00	344000	Low	NR Band n66	20	13.09	0.0	DFT-s-OFDM QPSK	50	0	0	Back	1:1	0.529	15.86	
1720.00	344000	Low	NR Band n66	20	13.21	0.0	DFT-s-OFDM QPSK	1	53	0	Top	1:1	0.540	15.89	
1720.00	344000	Low	NR Band n66	20	13.09	0.0	DFT-s-OFDM QPSK	50	0	0	Top	1:1	0.544	15.73	
1720.00	344000	Low	NR Band n66	20	24.18	0.0	DFT-s-OFDM QPSK	1	53	0	Right	1:1	0.266	29.93	
1720.00	344000	Low	NR Band n66	20	24.15	0.0	DFT-s-OFDM QPSK	50	28	0	Right	1:1	0.252	30.14	
1720.00	344000	Low	NR Band n66	20	24.18	0.0	DFT-s-OFDM QPSK	1	53	0	Left	1:1	0.092	34.54	
1720.00	344000	Low	NR Band n66	20	24.15	0.0	DFT-s-OFDM QPSK	50	28	0	Left	1:1	0.091	34.56	
1720.00	344000	Low	NR Band n66	20	13.45	0.0	CP-OFDM QPSK	1	1	0	Top	1:1	0.509	16.38	




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Table A-41
DSI = 0, 2 P_{Limit} Calculations – NR Band n25

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]	
1882.50	376500	Mid	NR Band n25	20	24.46	0.0	DFT-s-OFDM QPSK	1	53	19	Back	1:1	0.415	28.28	27.48
1882.50	376500	Mid	NR Band n25	20	23.95	0.0	DFT-s-OFDM QPSK	50	28	19	Back	1:1	0.398	27.95	
1882.50	376500	Mid	NR Band n25	20	24.46	0.0	DFT-s-OFDM QPSK	1	53	23	Top	1:1	0.416	28.27	
1882.50	376500	Mid	NR Band n25	20	23.95	0.0	DFT-s-OFDM QPSK	50	28	23	Top	1:1	0.406	27.86	
1882.50	376500	Mid	NR Band n25	20	24.46	0.0	DFT-s-OFDM QPSK	1	53	0	Right	1:1	0.484	27.61	
1882.50	376500	Mid	NR Band n25	20	23.95	0.0	DFT-s-OFDM QPSK	50	28	0	Right	1:1	0.444	27.48	
1882.50	376500	Mid	NR Band n25	20	24.46	0.0	DFT-s-OFDM QPSK	1	53	0	Left	1:1	0.188	31.72	
1882.50	376500	Mid	NR Band n25	20	23.95	0.0	DFT-s-OFDM QPSK	50	28	0	Left	1:1	0.171	31.62	

Table A-42
DSI = 1, 3 P_{Limit} Calculations – NR Band n25

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]	
1905.00	381000	High	NR Band n25	20	13.28	0.0	DFT-s-OFDM QPSK	1	53	0	Back	1:1	0.627	15.31	14.69
1905.00	381000	High	NR Band n25	20	13.13	0.0	DFT-s-OFDM QPSK	50	0	0	Back	1:1	0.604	15.32	
1860.00	372000	Low	NR Band n25	20	12.95	0.0	DFT-s-OFDM QPSK	1	53	0	Top	1:1	0.620	15.03	
1882.50	376500	Mid	NR Band n25	20	12.88	0.0	DFT-s-OFDM QPSK	1	53	0	Top	1:1	0.596	15.13	
1905.00	381000	High	NR Band n25	20	13.28	0.0	DFT-s-OFDM QPSK	1	53	0	Top	1:1	0.723	14.69	
1905.00	381000	High	NR Band n25	20	13.13	0.0	DFT-s-OFDM QPSK	50	0	0	Top	1:1	0.624	15.18	
1882.50	376500	Mid	NR Band n25	20	24.46	0.0	DFT-s-OFDM QPSK	1	53	0	Right	1:1	0.484	27.61	
1882.50	376500	Mid	NR Band n25	20	23.95	0.0	DFT-s-OFDM QPSK	50	28	0	Right	1:1	0.444	27.48	
1882.50	376500	Mid	NR Band n25	20	24.46	0.0	DFT-s-OFDM QPSK	1	53	0	Left	1:1	0.188	31.72	
1882.50	376500	Mid	NR Band n25	20	23.95	0.0	DFT-s-OFDM QPSK	50	28	0	Left	1:1	0.171	31.62	
1905.00	381000	High	NR Band n25	20	13.12	0.0	CP-OFDM QPSK	1	1	0	Top	1:1	0.652	14.98	







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Table A-43
DSI = 0, 3 P_{Limit} Calculations – NR Band n41

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]
2592.99	518598	Mid	NR Band n41	100	24.59	0.0	DFT-s-OFDM QPSK	1	137	18	Back	1:4	0.081	29.48	28.12
2592.99	518598	Mid	NR Band n41	100	24.44	0.0	DFT-s-OFDM QPSK	135	69	18	Back	1:4	0.079	29.44	
2592.99	518598	Mid	NR Band n41	100	24.59	0.0	DFT-s-OFDM QPSK	1	137	19	Top	1:4	0.059	30.86	
2592.99	518598	Mid	NR Band n41	100	24.44	0.0	DFT-s-OFDM QPSK	135	69	19	Top	1:4	0.060	30.64	
2592.99	518598	Mid	NR Band n41	100	24.59	0.0	DFT-s-OFDM QPSK	1	137	7	Right	1:4	0.111	28.12	
2592.99	518598	Mid	NR Band n41	100	24.44	0.0	DFT-s-OFDM QPSK	135	69	7	Right	1:4	0.104	28.25	

Table A-44
DSI = 1, 2 P_{Limit} Calculations – NR Band n41

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]
2592.99	518598	Mid	NR Band n41	100	14.78	0.0	DFT-s-OFDM QPSK	1	1	0	Back	1:4	0.167	16.53	16.28
2592.99	518598	Mid	NR Band n41	100	14.63	0.0	DFT-s-OFDM QPSK	135	0	0	Back	1:4	0.171	16.28	
2592.99	518598	Mid	NR Band n41	100	14.78	0.0	DFT-s-OFDM QPSK	1	1	0	Top	1:4	0.099	18.80	
2592.99	518598	Mid	NR Band n41	100	14.63	0.0	DFT-s-OFDM QPSK	135	0	0	Top	1:4	0.102	18.52	
2592.99	518598	Mid	NR Band n41	100	14.78	0.0	DFT-s-OFDM QPSK	1	1	0	Right	1:4	0.036	23.20	
2592.99	518598	Mid	NR Band n41	100	14.63	0.0	DFT-s-OFDM QPSK	135	0	0	Right	1:4	0.035	23.17	
2592.99	518598	Mid	NR Band n41	100	14.83	0.0	CP-OFDM QPSK	1	1	0	Back	1:4	0.150	17.05	

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