

TEST REPORT

FCC SAR Part 0 Test for SM-S931U
Certification

APPLICANT
SAMSUNG Electronics Co., Ltd.

REPORT NO.
HCT-SR-2410-FC007-R2

DATE OF ISSUE
November 12, 2024

Tested by
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TEST REPORT

SAR PART 0 Test for
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FCC ID
A3LSMS931U

Applicant SAMSUNG Electronics Co., Ltd
129, Samsung-ro, Yeongtong-gu, Suwon-Si, Gyeonggi-do, 16677, Korea

Product Name Mobile Phone
Model Name SM-S931U
Additional Model Name SM-S931U1

Date of Test Aug. 27, 2024~ Oct. 28, 2024

Location of Test ☒ Permanent Testing Lab ☐ On Site Testing Lab
(Address: 74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si,
Gyeonggi-do, 17383 KOREA)

FCC Rule Part(s) CFR §2.1093

Test Results PASS (SAR Limit : 1.6 W/kg)
Refer to the clause 3.2 Attestation of test result

REVISION HISTORY

The revision history for this test report is shown in table.

Revision No.	Date of Issue	Description
0	Oct. 28, 2024	Initial Release
1	Oct. 31, 2024	Revised NR n7/66/71 BW, Page 13
2	Nov. 12, 2024	Revised BT version

Notice

Content

The results shown in this test report only apply to the sample(s), as received, provided by the applicant, unless otherwise stated.

The test results have only been applied with the test methods required by the standard(s).

The laboratory is not accredited for the test results marked *.

Information provided by the applicant is marked **.

Test results provided by external providers are marked ***.

When confirmation of authenticity of this test report is required, please contact www.hct.co.kr

The test results in this test report are not associated with the ((KS Q) ISO/IEC 17025) accreditation by KOLAS (Korea Laboratory Accreditation Scheme) / A2LA (American Association for Laboratory Accreditation) that are under the ILAC (International Laboratory Accreditation Cooperation) Mutual Recognition Agreement (MRA).

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1. Test Location

1.1 Test Laboratory

Company Name	HCT Co., Ltd.
Address	74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si, Gyeonggi-do, 17383 KOREA
Telephone	031-645-6300
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1.2 Test Facilities

Our laboratories are accredited and approved by the following approval agencies according to ISO/IEC 17025.

Korea	National Radio Research Agency (Designation No. KR0032)
	KOLAS (Testing No. KT197)

1.3 General Information of the EUT

Model Name	SM-S931U
Additional Model Name	SM-S931U1
Equipment Type	Mobile Phone
FCC ID	A3LSMS931U
Application Type	Certification
Applicant	SAMSUNG Electronics Co., Ltd.

2. Device Under Test Description

Device Wireless specification overview		
Band & Mode	Operating Mode	Tx Frequency
GSM850	Voice / Data	824.2 MHz ~ 848.8 MHz
GSM1900	Voice / Data	1 850.2 MHz ~ 1 909.8 MHz
UMTS Band 2	Voice / Data	1 852.4 MHz ~ 1 907.6 MHz
UMTS Band 4	Voice / Data	1 712.4 MHz ~ 1 752.6 MHz
UMTS Band 5	Voice / Data	826.4 MHz ~ 846.6 MHz
LTE FDD Band 2 (PCS)	Voice / Data	1 850.7 MHz ~ 1 909.3 MHz
LTE FDD Band 4 (AWS)	Voice / Data	1 710.7 MHz ~ 1 754.3 MHz
LTE FDD Band 5 (Cell)	Voice / Data	824.7 MHz ~ 848.3 MHz
LTE FDD Band 7	Voice / Data	2 502.5 MHz ~ 2 567.5 MHz
LTE FDD Band 12	Voice / Data	699.7 MHz ~ 715.3 MHz
LTE FDD Band 13	Voice / Data	779.5 MHz ~ 784.5 MHz
LTE FDD Band 14	Voice / Data	790.5 MHz ~ 795.5 MHz
LTE FDD Band 25	Voice / Data	1 850.7 MHz ~ 1 914.3 MHz
LTE FDD Band 26	Voice / Data	814.7 MHz ~ 848.3 MHz
LTE FDD Band 30	Voice / Data	2 307.5 MHz ~ 2 312.5 MHz
LTE TDD Band 38	Voice / Data	2 572.5 MHz ~ 2 617.5 MHz
LTE TDD Band 41	Voice / Data	2 498.5 MHz ~ 2 687.5 MHz
LTE TDD Band 48	Voice / Data	3 552.5 MHz ~ 3 697.5 MHz
LTE FDD Band 66 (AWS)	Voice / Data	1 710.7 MHz ~ 1 779.3 MHz
LTE FDD Band 71	Voice / Data	665.5 MHz ~ 695.5 MHz
NR FDD Band n2 (PCS)	Voice / Data	1 852.5 MHz ~ 1 907.5 MHz
NR FDD Band n5	Voice / Data	826.5 MHz ~ 846.5 MHz
NR FDD Band n7	Voice / Data	2 502.5 MHz ~ 2 567.5 MHz
NR FDD Band n12	Voice / Data	701.5 MHz ~ 713.5 MHz
NR FDD Band n14	Voice / Data	790.5 MHz ~ 795.5 MHz
NR FDD Band n25 (PCS)	Voice / Data	1 852.5 MHz ~ 1 912.5 MHz
NR FDD Band n26	Voice / Data	816.5 MHz ~ 846.5 MHz
NR FDD Band n30	Voice / Data	2 307.5 MHz ~ 2 312.5 MHz
NR TDD Band n38	Voice / Data	2 575 MHz ~ 2 615 MHz
NR TDD Band n41	Voice / Data	2 501.01 MHz ~ 2 685 MHz
NR TDD Band n48	Voice / Data	3 555 MHz ~ 3 695.01 MHz
NR FDD Band n66	Voice / Data	1 712.5 MHz ~ 1 777.5 MHz
NR FDD Band n70	Voice / Data	1 697.5 MHz ~ 1 707.5 MHz
NR FDD Band n71	Voice / Data	665.5 MHz ~ 695.5 MHz
NR TDD Band n77	Voice / Data	3 705 MHz ~ 3 975 MHz
NR TDD Band n77 DoD	Voice / Data	3 445.01 MHz ~ 3 544.98 MHz
NR TDD Band n78	Voice / Data	3 705 MHz ~ 3 795 MHz
NR TDD Band n78 DoD	Voice / Data	3 455.01 MHz ~ 3 544.98 MHz
NR Band n258	Data	24 250 MHz ~ 24 450 MHz; 24 750 MHz ~ 25 250 MHz
NR Band n260	Data	37 000 MHz ~ 40 000 MHz
NR Band n261	Data	27 500 MHz ~ 28 350 MHz
U-NII-1	Voice / Data	5 180 MHz ~ 5 240 MHz
U-NII-2A	Voice / Data	5 260 MHz ~ 5 320 MHz
U-NII-2C	Voice / Data	5 500 MHz ~ 5 720 MHz
U-NII-3	Voice / Data	5 745 MHz ~ 5 825 MHz
U-NII-4	Voice / Data	5 845 MHz ~ 5 885 MHz
U-NII-5	Voice / Data	5 925 MHz ~ 6 425 MHz
U-NII-6	Voice / Data	6 425 MHz ~ 6 525 MHz
U-NII-7	Voice / Data	6 525 MHz ~ 6 865 MHz
U-NII-8	Voice / Data	6 865 MHz ~ 7 115 MHz
2.4 GHz WLAN	Voice / Data	2 412 MHz ~ 2 462 MHz
Bluetooth / LE 5.4	Data	2 402 MHz ~ 2 480 MHz
NFC	Data	13.56 MHz
WPC	Data	110 kHz ~ 148 kHz
NTN (Non terrestrial Networks)	Data	1 626.5 MHz ~ 1 640.4 MHz

Device Description		
Battery	EB-BS931ABY (SDI)	
Device Serial Numbers	Mode	Serial Number
	GSM850, GSM1900, UMTS Band 2,4,5	XHK0120M, XHK0100M
	LTE Band 12,13,14,26,71 NR Band n12, 14 26,30,71	XHK0094M, XHK0099M
	LTE Band 66,25,30,7 NR Band n41 SRS2, n48 SRS1/2, n77 SRS 1/2	XJ90526M, XJA1828M, XJA1617M, XHK0100M, XHK0147M,XJL1050M
	LTE Band 41, 48	XHK0094M, XHK0100M, XJL1050M
	NR Band n7,25,30,41,48, 66,70, 77 NR Band n41 SRS 1/3, n48 SRS3, n77 SRS3	XJ90526M, XJA1828M, XJA1617M, XHK0147M, XJL1050M, XJL1056M
	WLAN 2.4G, 5G, BT, NFC	XHK0101M, XJL1056M
	WLAN 6E	XHK0101M
	NTN	XJN0623M, XJAL1056M
	The manufacturer has confirmed that the devices tested have the same physical, mechanical and thermal characteristics are within operational tolerances expected for production units.	

2.1 Time-Averaging for SAR

This device is enabled with Qualcomm® GEN 2 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 NR WWAN and WLAN/BT is in compliance with FCC requirements.

This Part 0 report shows SAR characterization of WWAN radios for 2G/3G/4G and 5G Sub-6 NR and WLAN/BT respectively. Characterization is achieved by determining Plimit for 2G/3G/4G and 5G Sub-6 NR and WLAN/BT correspond 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 2.3 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 and WLAN/BT technologies are reported in Part 2 report.

2.2 Nomenclature for Part 0 Report

Technology	Term	Description
2G/3G/4G/5G Sub 6 NR /WLAN/BT	Plimit	Power level that corresponds to the exposure design target (SAR_design_target) after accounting for all device design related uncertainties
	Pmax	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

3. SAR MEASUREMENTS

3.1 SAR Definition

Specific Absorption Rate (SAR) is defined as the time derivative of the incremental electromagnetic 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

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

SAR Mathematical Equation

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

$$SAR = \sigma E^2 / \rho$$

Where:

σ = conductivity of the tissue-simulant material (S/m)
 ρ = mass density of the tissue-simulant material (kg/m³)
 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 relations 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.

3.2 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 more than 5.0 mm from the inner surface of the shell. The area covered the entire dimension of the DUT's head and body area and the horizontal grid resolution was depending on the FCC KDB 865664 D01v01r04 (see table 3-1) & IEEE 1528-2013.
2. Based on step, the area of the maximum absorption was determined by sophisticated interpolations routines implemented in DASY software. When an Area Scan has measured all reachable point. DASY system computes the field maximal found in the scanned are, within a range of the maximum. SAR at this fixed point was measured and used as a reference value.
3. Around this point, a volume was assessed according to the measurement resolution and volume size requirements of FCC KDB 865664 D01v01r04 table 4-1 and IEEE 1528-2013. On the basis of this data set, the spatial peak SAR value was evaluated with the following procedure (reference from the DASY manual.)
 - a. The data at the surface were extrapolated, since the center of the dipoles is no more than 2.7 mm away from the tip of the probe (it is different from the probe type) and the distance between the surface and the lowest measuring point is 1.2 mm. The extrapolation was based on a least square algorithm. A polynomial of the fourth order was calculated through the points in z-axes. This polynomial was then used to evaluate the points between the surface and the probe tip.
 - b. The maximum interpolated value was searched with a straight-forward algorithm. Around this maximum the SAR values averaged over the spatial volumes (1 g or 10 g) were computed using the 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 integrated with the trapezoidal algorithm. One thousand points (10 x 10 x 10) were interpolated to calculate the average.
 - c. All neighboring volumes were evaluated until no neighboring volume with a higher average value was found.
4. The SAR reference value, at the same location as step 2, was re-measured after the zoom scan. If the value changed by more than 5 %, the SAR evaluation and drift measurements were repeated.

Table 3-1

Frequency	Maximum Area Scan Resolution(mm) (Δxarea, Δyarea)	Maximum Zoom Scan Resolution (mm) (Δxzoom, Δyzoom)	Maximum Zoom Scan Spatial Resolution (mm)			Minimum Zoom Scan Volume (mm) (x,y,z)
			Uniform Grid	Graded Grid		
				Δzoom(n)	Δzoom(1)*	
≤2 GHz	≤15	≤8	≤5	≤4	≤1.5*Δzoom(n-1)	≥30
2-3 GHz	≤12	≤5	≤5	≤4	≤1.5*Δzoom(n-1)	≥30
3-4 GHz	≤12	≤5	≤4	≤3	≤1.5*Δzoom(n-1)	≥28
4-5 GHz	≤10	≤4	≤3	≤2.5	≤1.5*Δzoom(n-1)	≥25
5-6 GHz	≤10	≤4	≤2	≤2	≤1.5*Δzoom(n-1)	≥22

Area and Zoom Scan Resolutions per FCC KDB Publication 865664 D01v01r04*

4. SAR CHARACTERIZATION

4.1 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 4-1 represent different exposure scenarios.

Table 4-1 DSI and Corresponding Exposure Scenarios

Scenario	Description	SAR Test Cases
Head (DSI = 1)	Device positioned next to head	Head SAR per KDB Publication 648474 D04
Body Worn Phablet Hotspot (DSI = 0)	Device is held with hand Device being used with a body-worn accessory Device transmits in hotspot mode near body	Phablet SAR per KDB Publication 648474 D04 Body-worn SAR per KDB Publication 648474 D04 Hotspot SAR per KDB Publication 941225 D06

4.2 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 4-2).

<i>SAR_design_target</i>			
$SAR_design_target < SAR_regulatory_limit \times 10^{Total\ Uncertainty/10}$			
1g SAR (W/kg)		10g SAR (W/kg)	
<i>Total Uncertainty</i>	1.0 dB	<i>Total Uncertainty</i>	1.0 dB
<i>SAR_regulatory_limit</i>	1.6 W/kg	<i>SAR_regulatory_limit</i>	4.0 W/kg
<i>SAR_design_target</i>	1.0 W/kg	<i>SAR_design_target</i>	2.5 W/kg

Table 4-2 *SAR_design_target* Calculations

4.3 SAR Characterization

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 Pmax to correspond to the SAR_design_target. Plimit determination for each exposure scenario corresponding to SAR_design_target are shown in Table 4-3.

Device State Index (DSI)	Plimit Determination Scenarios
0	The worst-case SAR exposure is determined as maximum SAR normalized to the limit among: 1. Phablet SAR measured at 0 mm 2. Body-Worn SAR at 10mm 3. Plimit is calculated based on 1g Hotspot SAR at 10 mm
1	Plimit is calculated based on 1g Head SAR

Table 4-3 *PLimit* Determination

Table 4-4 SAR Characterization

Plim values in green indicate Plimit < Pmax			Plim values in grey indicate Plim > Pmax				Pmax
Plimit corresponding to 1 W/kg (1g) 2.5W/kg(10g) SAR_Design_target						Maximum Tune-up Output Power (Frame Averaged Power) [dBm]	
SAR Exposure Position			Body-worn	Head	Hotspot		Phablet
Averaging volume			1g	1g	1g	10g	
seperation Distance			10 mm	0 mm	10 mm	0 mm	
Mode	Band	Antenna	DSI=0	DSI=1	DSI=0	DSI=0	
GSM/GPRS/EDGE	850	Sub 1	26.8	20.8	26.8	29.4	
GSM/GPRS/EDGE	850	MAIN 1	31.8	34.6	30.7	28.8	
GSM/GPRS/EDGE	1900	MAIN 1	19.3	32.0	19.3	19.3	
UMTS	2	MAIN 1	19.0	31.7	19.0	19.0	
UMTS	4	MAIN 1	19.0	31.5	19.0	19.0	
UMTS	5	Sub 1	27.5	21.0	27.5	26.8	
UMTS	5	MAIN 1	30.0	29.1	30.0	27.5	
LTE FDD	25(2)	MAIN 1	19.0	31.7	19.0	19.0	
LTE FDD	25(2)	Sub 2	18.5	16.9	18.5	18.5	
LTE FDD	66(4)	MAIN 1	19.5	31.5	19.5	19.5	
LTE FDD	66(4)	Sub 2	19.5	17.0	19.5	19.5	
LTE FDD	7	MAIN 2	20.5	36.3	20.5	19.5	
LTE FDD	7	Sub 2	19.5	16.5	19.5	19.5	
LTE FDD	12	MAIN 1	30.3	35.6	30.3	30.8	
LTE FDD	12	Sub 1	26.3	20.5	26.3	26.8	
LTE FDD	13	MAIN 1	32.4	36.4	31.4	30.6	
LTE FDD	13	Sub 1	23.0	21.0	23.0	23.0	
LTE FDD	14	MAIN 1	23.0	37.0	23.0	23.0	
LTE FDD	14	Sub 1	22.0	21.0	22.0	22.0	
LTE FDD	26(5)	Sub 1	28.6	21.5	28.6	27.0	
LTE FDD	26(5)	MAIN 1	29.2	34.5	29.2	28.1	
LTE FDD	30	Sub 2	19.5	17.0	19.5	19.5	
LTE FDD	30	MAIN 1	20.5	34.3	20.5	20.5	
LTE TDD PC3	41(38)	MAIN 2	20.5	20.0	20.5	20.5	
LTE TDD PC3	41	Sub 2	18.5	15.5	18.5	18.5	
LTE TDD PC3	48	Sub 2	18.5	14.0	18.5	18.5	
LTE FDD	71	MAIN 1	28.9	35.4	28.9	28.6	
LTE FDD	71	Sub 1	26.9	21.0	26.9	26.3	
NR FDD	25(2)	MAIN 1	19.5	29.7	19.5	19.5	
NR FDD	25(2)	Sub 2	18.5	16.5	18.5	18.5	
NR FDD	7	MAIN 2	21.0	36.2	21.0	21.0	
NR FDD	7	Sub 2	18.5	16.5	18.5	18.5	
NR FDD	12	MAIN 1	31.1	36.2	31.1	29.8	
NR FDD	12	Sub 1	26.9	20.5	26.9	26.8	
NR FDD	14	MAIN 1	33.1	38.4	31.5	29.8	
NR FDD	14	Sub 1	28.0	20.5	28.0	27.0	
NR FDD	26(5)	Sub 1	28.7	22.0	28.0	24.5	
NR FDD	26(5)	MAIN 1	31.2	35.2	31.2	27.3	
NR FDD	30	Sub 2	19.0	16.5	19.0	19.0	
NR FDD	30	MAIN 1	20.0	36.4	20.0	20.0	
NR TDD PC2	41	Sub 2	19.5	15.0	19.5	19.5	
NR TDD SRS 2	41	MAIN 2	20.0	15.0	20.0	20.0	
NR TDD SRS 3	41	Sub 1	19.0	13.5	19.0	19.0	
NR TDD SRS 4	41	MAIN 4	19.0	13.5	19.0	19.0	
NR TDD PC2	41	MAIN 2	21.0	19.0	21.0	21.0	
NR TDD SRS 2	41	Sub 2	35.6	19.0	31.6	28.0	
NR TDD SRS 3	41	MAIN 4	19.0	18.0	19.0	19.0	
NR TDD SRS 4	41	Sub 1	18.0	17.0	18.0	18.0	
NR TDD PC3	48	Sub 2	19.5	14.5	19.5	17.9	
NR TDD SRS 2	48	MAIN 3	13.0	8.5	13.0	13.0	
NR TDD SRS 3	48	SUB 5	17.0	12.0	17.0	17.0	
NR TDD SRS 4	48	MAIN 4	12.5	7.5	12.5	12.5	
NR FDD	66	MAIN 1	19.0	30.3	19.0	19.0	
NR FDD	66	Sub 2	20.0	16.5	20.0	20.0	
NR FDD	70	MAIN 1	20.0	31.0	20.0	20.0	
NR FDD	70	Sub 2	21.0	17.0	21.0	21.0	
NR FDD	71	MAIN 1	30.3	36.0	30.3	28.4	
NR FDD	71	Sub 1	27.8	21.0	27.8	27.2	
NR TDD PC2	77/78	Sub 2	16.5	14.5	16.5	16.5	
NR TDD SRS 2	77/78	MAIN 3	6.0	3.5	6.0	6.0	
NR TDD SRS 3	77/78	SUB 5	9.5	7.0	9.5	9.5	
NR TDD SRS 4	77/78	MAIN 4	4.5	3.0	4.5	4.5	
NR TDD DoD PC2	77/78	Sub 2	16.5	14.5	16.5	16.5	
NR TDD SRS 2 DoD	77/78	MAIN 3	6.0	3.5	6.0	6.0	
NR TDD SRS 3 DoD	77/78	SUB 5	9.5	7.0	9.5	9.5	
NR TDD SRS 4 DoD	77/78	MAIN 4	4.5	3.0	4.5	4.5	
WLAN	2.4	Sub 4	23.4	14.0	20.9	20.9	
WLAN	2.4	Sub 6	24.2	14.0	24.2	21.3	
WLAN	2.4	Sub 4,6	21.3	14.0	21.1	20.0	
WLAN	5	Sub 4	20.8	14.0	19.1	17.9	
WLAN	5	Sub 1	21.5	14.0	24.7	22.3	
WLAN	5	Sub 1,4	20.0	14.0	20.4	18.3	
WLAN	6	Sub 4	9.0	9.0	9.0	9.0	
WLAN	6	Sub 1	9.0	9.0	9.0	9.0	
WLAN	6	Sub 1,4	9.0	9.0	9.0	9.0	
BT	2.4	Sub 4	24.7	16.0	24.7	23.5	
BT	2.4	Sub 6	26.8	16.0	26.8	23.6	
BT LE	2.4	Sub 4	22.1	16.0	22.1	21.2	
BT LE	2.4	Sub 6	22.4	16.0	22.4	21.1	

Note:

1. Compared with the Plimt (Tune up Powers) declared in each DSI by the manufacturer and the plimt (calculation) calculated by the SAR measurement of each DSI, the lower power were applied to the EFS as the plimit at each DSI configurations.
2. When $P_{max} < P_{limit}$, the DUT will operate at a power level up to P_{max} .
3. Maximum Tune up Power, P_{max} . Is configured in NV settings in EUT to limit maximum transmitting power. This power is converted into peak power in NV setting for TDD schemes.(GPRS, LTE TDD and WLAN/BT) The EUT maximum allowed output power is equal to $P_{max} + 1\text{dB}$ device uncertainty.

5. Equipment List

Manufacturer	Type / Model	S/N	Calib. Date	Calib.Interval	Calib.Due
SPEAG	SAM Phantom	-	N/A	N/A	N/A
SPEAG	ELI Phantom	-	N/A	N/A	N/A
SPEAG	cDASY6 5G Module Phantom		N/A	N/A	N/A
HP	SAR System Control PC	-	N/A	N/A	N/A
Staubli	CS8Cspeag-TX90	F13/ 5R4XF1/ C/ 01	N/A	N/A	N/A
Staubli	CS9spe-TX2-90	F/24/0058554/C/001	N/A	N/A	N/A
Staubli	CS8Cspeag-TX90	F17/ 59RAA1/ C/ 01	N/A	N/A	N/A
Staubli	CS8Cspeag-TX90	F08/5AJ0A1/C/01	N/A	N/A	N/A
Staubli	CS8Cspeag-TX90	F13/ 55D0A1/ C/ 01	N/A	N/A	N/A
Staubli	CS9spe-TX2-60	F/21/0029002/C/001	N/A	N/A	N/A
Staubli	CS8Cspeag-TX90	F07/55B8A1/C/01	N/A	N/A	N/A
Staubli	CS8Cspeag-TX90	F07/56W9A1/C/01	N/A	N/A	N/A
N/A	TX90 Xlspeag	F13/ 5R4XF1/ A/ 01	N/A	N/A	N/A
N/A	TX2-90XL spe	F/24/0058554/A/001	N/A	N/A	N/A
N/A	TX90 Xlspeag	F17/ 59RAA1/ A/ 01	N/A	N/A	N/A
N/A	TX90 Xlspeag	F08/5AJ0A1/A/01	N/A	N/A	N/A
N/A	TX90 Xlspeag	F13/ 55D0A1/ A/ 01	N/A	N/A	N/A
N/A	TX2-60 Lspe	F/21/0029002/A/001	N/A	N/A	N/A
N/A	TX90 Xlspeag	F07/55B8A1/A/01	N/A	N/A	N/A
N/A	TX90 Xlspeag	F07/56W9A1/A/01	N/A	N/A	N/A
N/A	Teach Pendant (Joystick)	D21142605	N/A	N/A	N/A
N/A	Teach Pendant (Joystick)	D21144508	N/A	N/A	N/A
N/A	Teach Pendant (Joystick)	D21142606B	N/A	N/A	N/A
N/A	Teach Pendant (Joystick)	D21143300	N/A	N/A	N/A
N/A	Teach Pendant (Joystick)	D21142605	N/A	N/A	N/A
N/A	Teach Pendant (Joystick)	D21144507C	N/A	N/A	N/A
N/A	Teach Pendant (Joystick)	D21139902	N/A	N/A	N/A
N/A	Teach Pendant (Joystick)	D21142102	N/A	N/A	N/A
TESTO	175-H1/Thermometer	40331953309	01/18/2024	Annual	01/18/2025
TESTO	175-H1/Thermometer	40331939309	12/26/2023	Annual	12/26/2024
TESTO	175-H1/Thermometer	40331922309	12/26/2023	Annual	12/26/2024
TESTO	175-H1/Thermometer	40331949309	12/26/2023	Annual	12/26/2024
TESTO	608-H1/Thermometer	83348029	03/20/2024	Annual	03/20/2025
TESTO	608-H1/Thermometer	83348028	03/20/2024	Annual	03/20/2025
TESTO	608-H1/Thermometer	83348021	03/20/2024	Annual	03/20/2025
TESTO	608-H1/Thermometer	83406789	06/26/2024	Annual	06/26/2025
SPEAG	DAE4	466	09/03/2024	Annual	09/03/2025
SPEAG	DAE4	504	01/30/2024	Annual	01/30/2025
SPEAG	DAE4	648	04/19/2024	Annual	04/19/2025
SPEAG	DAE4	780	06/19/2024	Annual	06/19/2025
SPEAG	DAE4	869	03/15/2024	Annual	03/15/2025
SPEAG	DAE4	1254	05/16/2024	Annual	05/16/2025
SPEAG	DAE4	1629	08/16/2024	Annual	08/16/2025
SPEAG	DAE4	1687	07/12/2024	Annual	07/12/2025
SPEAG	DAE4	1866	05/02/2024	Annual	05/02/2025
SPEAG	E-Field Probe ES3DV3	3076	07/17/2024	Annual	07/17/2025
SPEAG	E-Field Probe EX3DV4	3797	01/23/2024	Annual	01/23/2025
SPEAG	E-Field Probe EX3DV4	3903	07/31/2024	Annual	07/31/2025
SPEAG	E-Field Probe EX3DV4	7309	06/19/2024	Annual	06/19/2025
SPEAG	E-Field Probe EX3DV4	7370	08/22/2024	Annual	08/22/2025
SPEAG	E-Field Probe EX3DV4	7622	11/24/2023	Annual	11/24/2024
SPEAG	E-Field Probe EX3DV4	7679	08/22/2024	Annual	08/22/2025
SPEAG	E-Field Probe EX3DV4	7681	11/27/2023	Annual	11/27/2024
SPEAG	E-Field Probe EX3DV4	7702	01/22/2024	Annual	01/22/2025

Manufacturer	Type / Model	S/N	Calib. Date	Calib.Interval	Calib.Due
SPEAG	E-Field Probe EX3DV4	7732	06/19/2024	Annual	06/19/2025
SPEAG	E-Field Probe EX3DV4	7751	09/19/2024	Annual	09/19/2025
SPEAG	E-Field Probe EUmmWV4	9528	05/17/2024	Annual	05/17/2025
SPEAG	CLA13	1016	09/21/2023	Annual	09/21/2024
SPEAG	Dipole D750V3	1014	05/20/2024	Annual	05/20/2025
SPEAG	Dipole D835V2	441	04/18/2024	Annual	04/18/2025
SPEAG	Dipole D1640V2	345	07/12/2023	Annual	07/12/2025
SPEAG	Dipole D1800V2	2d007	04/15/2024	Annual	04/15/2026
SPEAG	Dipole D1900V2	5d032	01/18/2024	Annual	01/18/2025
SPEAG	Dipole D2300V2	1010	07/19/2023	Annual	07/19/2025
SPEAG	Dipole D2450V2	743	03/14/2024	Annual	03/14/2025
SPEAG	Dipole D2600V2	1015	04/22/2024	Annual	04/22/2025
SPEAG	Dipole D3500V2	1132	01/23/2024	Annual	01/23/2025
SPEAG	Dipole D3700V2	1105	09/18/2024	Annual	09/18/2025
SPEAG	Dipole D3900V2	1086	05/21/2024	Annual	05/21/2025
SPEAG	Dipole D5 GHz V2	1107	04/19/2024	Annual	04/19/2025
SPEAG	Dipole D6.5 GHz V2	1012	09/17/2024	Annual	09/17/2025
SPEAG	5G Verification source 10 GHz	1018	04/17/2024	Annual	04/17/2025
Agilent	Power Meter E4419B	MY41291386	09/21/2023	Annual	09/21/2024
Agilent	Power Meter E4419B	MY41291386	09/11/2024	Annual	09/11/2025
Agilent	Power Meter N1911A	MY45101406	05/21/2024	Annual	05/21/2025
Agilent	Power Sensor 8481A	SG1091286	09/21/2023	Annual	09/21/2024
Agilent	Power Sensor 8481A	SG1091286	09/12/2024	Annual	09/12/2025
H.P	Power Sensor 8481A	MY41090675	09/21/2023	Annual	09/21/2024
H.P	Power Sensor 8481A	MY41090675	09/12/2024	Annual	09/12/2025
Agilent	Wideband Power Sensor N1921A	MY55220026	07/30/2024	Annual	07/30/2025
Agilent	11636B/Power Divider	58698	01/15/2024	Annual	01/15/2025
SPEAG	DAKS 3.5	1038	01/22/2024	Annual	01/22/2025
SPEAG	Vector Reflectometer	141013	01/11/2024	Annual	01/11/2025
SPEAG	DAKS 12	1048	03/20/2024	Annual	03/20/2025
SPEAG	MXA Signal Analyzer	MY49100108	01/09/2024	Annual	01/09/2025
H.P	Network Analyzer /8753ES	JP39240221	12/26/2023	Annual	12/26/2024
Agilent	WIRELESS COMMUNICATION E5515C	MY48360252	07/29/2024	Annual	07/29/2025
Agilent	WIRELESS COMMUNICATION E5515C	MY50260992	05/22/2024	Annual	05/22/2025
R&S	Wireless Communication Test Set CMW500	115733	03/19/2024	Annual	03/19/2025
Agilent	SIGNAL GENERATOR N5182A	MY47070230	03/19/2024	Annual	03/19/2025
EMPOWER	RF Power Amplifier	1084	05/21/2024	Annual	05/21/2025
EMPOWER	RF Power Amplifier	1041D/C0508	05/21/2024	Annual	05/21/2025
EMPOWER	RF Power Amplifier	1011	09/21/2023	Annual	09/21/2024
EMPOWER	RF Power Amplifier	1011	09/11/2024	Annual	09/11/2025
MICRO LAB	LP Filter / LA-15N	10453	09/21/2023	Annual	09/21/2024
MICRO LAB	LP Filter / LA-30N	-	09/21/2023	Annual	09/21/2024
MICRO LAB	LP Filter / LA-60N	32011	09/21/2023	Annual	09/21/2024
MICRO LAB	LP Filter / LA-15N	10453	09/11/2024	Annual	09/11/2025
MICRO LAB	LP Filter / LA-30N	-	09/11/2024	Annual	09/11/2025
MICRO LAB	LP Filter / LA-60N	32011	09/11/2024	Annual	09/11/2025
Agilent	Attenuator (3dB) 8693B	MY39260298	08/20/2024	Annual	08/20/2025
HP	Attenuator (20dB) 8493C	09271	08/20/2024	Annual	08/20/2025
Agilent	Directional Bridge 86205A	3140A04581	04/22/2024	Annual	04/22/2025

Manufacturer	Type / Model	S/N	Calib. Date	Calib.Interval	Calib.Due
Agilent	MXA Signal Analyzer N9020A	MY50510407	06/04/2024	Annual	06/04/2025
KEYSIGHT	EXG Vector Signal Generator	MY50350097	03/05/2024	Annual	03/05/2025
HP	Dual Directional Coupler	16072	09/11/2024	Annual	09/11/2025
Anritsu	Radio Communication Test Station MT8000A	6262036812	11/28/2023	Annual	11/28/2024
Anritsu	Radio Communication Tester MT8820C	6201074225	01/17/2024	Annual	01/17/2025
Anritsu	Radio Communication Tester MT8820C	6200695605	03/19/2024	Annual	03/19/2025
Anritsu	Radio Communication Tester MT8821C	6201502997	05/21/2024	Annual	05/21/2025
Anritsu	Radio Communication Tester MT8821C	6262044720	11/28/2023	Annual	11/28/2024
Anritsu	Radio Communication Tester MT8821C	6201664725	01/17/2024	Annual	01/17/2025
ROHDE&SCHWARZ	BLUETOOTH TESTER CBT	100272	01/16/2024	Annual	01/16/2025

* The E-field probe was calibrated by SPEAG, by the waveguide technique procedure. Dipole Verification measurement is performed by HCT Lab. before each test. The brain/body simulating material is calibrated by HCT using the DAKS 3.5 to determine the conductivity and permittivity (dielectric constant) of the brain/body-equivalent material.

6. Measurement Uncertainty

The measured SAR was <1.5 W/Kg for 1g SAR and <3.75 W/Kg, for 10g SAR for all frequency Bands. Therefore, per KDB Publication 865664 D01v01r04, the extended measurement uncertainty analysis per IEEE1528-2013 was not required.

For SAR Measurement Uncertainty for Frequencies Above 6 GHz

Measurement Uncertainty for handset SAR test									
According to IEEE 1528 and IEC 62209-1528 (6 - 10 GHz range)									
a	b	c	d	e	f	g	$h = c \times f / e$	$i = c \times g / e$	k
Source of uncertainty	Symbol	Uncertainty $\pm \%$	Probability distribution	Div.	c_i	c_i	Standard Uncertainty	Standard Uncertainty	v_i or v_{eff}
Description					(1 g)	(10 g)	$\pm \%$ (1 g)	$\pm \%$ (10 g)	
Measurement system									
Probe calibration	CF	18.60	N	2	1	1	9.30	9.30	∞
Probe Calibration Drift	CFdrift	1.70	N	1	1	1	1.00	1.00	∞
Probe Linearity	LIN	4.70	R	1.73	1.00	1.00	2.71	2.71	∞
Broadband Signal	BBS	3.00	R	1.73	1.00	1.00	1.73	1.73	∞
Probe Isotropy	ISO	7.60	R	1.73	1	1	4.39	4.39	∞
Data Acquisition	DAE	2.40	N	1	1	1	2.40	2.40	∞
RF Ambient	AMB	1.80	N	1	1	1	1.80	1.80	∞
Probe Positioning	Δ_{sys}	0.20	N	1	0.33	0.33	0.07	0.07	∞
Data Processing	DAT	3.50	N	1	1	1	3.50	3.50	∞
Phantom and Device Errors									
Conductivity (meas.)DAK	LIQ(σ)	2.50	N	1	0.78	0.71	1.95	1.78	∞
Conductivity (temp.)BB	LIQ($T\sigma$)	3.40	R	1.73	0.78	0.71	1.53	1.39	∞
Phantom Permittivity	EPS	14.00	R	1.73	0.25	0.25	2.02	2.02	∞
Distance DUT - TSL	DAS	2.00	N	1	2	2	4.00	4.00	∞
Device Holder	H	3.60	N	1	1	1	3.60	3.60	∞
DUT Modulation	MOD	2.40	R	1.73	1	1	1.39	1.39	∞
DUT drift	RFdrift	2.50	N	1	1	1	2.50	2.50	∞
Deviation to Target	$C(\epsilon, \sigma)$	1.90	N	1	1	0.84	1.90	1.60	∞
SAR scaling	$C(R)$	0.00	R	1.73	1	1	0.00	0.00	∞
Combined standard uncertainty	$u(\Delta SAR)$		RSS				13.72	13.65	
Expanded uncertainty (95% confidence interval)	U		$k = 2$				27.44	27.30	

Appendix A: SAR Test Results For P limit CALCULATIONS

Table A-1 DSI = 1 *PLimit* Calculations – 2G/3G Head SAR

MEASUREMENT RESULTS									
Frequency		Mode/ Band	Ant.	Frame Averaged	Test Position	Duty Cycle	Meas.	Plimit	Minimum
MHz	Ch.			Conducted Power			SAR(1g)		Plimit
				(dBm)			(W/kg)	(dBm)	(dBm)
848.8	251	GSM 850	GPRS 2Tx	S1	Left Cheek	1:4.15	0.516	23.9	23.9
848.8	251	GSM 850		S1	Left Tilt	1:4.15	0.357	25.5	
848.8	251	GSM 850		S1	Right Cheek	1:4.15	0.371	25.3	
848.8	251	GSM 850		S1	Right Tilt	1:4.15	0.302	26.2	
836.6	190	GSM 850	GPRS 2Tx	M1	Left Cheek	1:4.15	0.094	35.0	34.6
836.6	190	GSM 850		M1	Left Tilt	1:4.15	0.050	37.7	
836.6	190	GSM 850		M1	Right Cheek	1:4.15	0.103	34.6	
836.6	190	GSM 850		M1	Right Tilt	1:4.15	0.056	37.2	
1 880	661	GSM 1900	GPRS 3Tx	M1	Left Cheek	1:2.77	0.096	32.0	32.0
1 880	661	GSM 1900		M1	Left Tilt	1:2.77	0.037	36.2	
1 880	661	GSM 1900		M1	Right Cheek	1:2.77	0.054	34.5	
1 880	661	GSM 1900		M1	Right Tilt	1:2.77	0.034	36.5	
836.6	4183	UMTS Band 5	RMC	S1	Left Cheek	1:1	0.629	25.8	25.8
836.6	4183	UMTS Band 5	RMC	S1	Left Tilt	1:1	0.462	27.1	
836.6	4183	UMTS Band 5	RMC	S1	Right Cheek	1:1	0.542	26.4	
836.6	4183	UMTS Band 5	RMC	S1	Right Tilt	1:1	0.428	27.5	
836.6	4183	UMTS Band 5	RMC	M1	Left Cheek	1:1	0.134	29.5	29.1
836.6	4183	UMTS Band 5	RMC	M1	Left Tilt	1:1	0.06	33.0	
836.6	4183	UMTS Band 5	RMC	M1	Right Cheek	1:1	0.147	29.1	
836.6	4183	UMTS Band 5	RMC	M1	Right Tilt	1:1	0.076	32.0	
1 732.4	1412	UMTS Band 4	RMC	M1	Left Cheek	1:1	0.127	31.5	31.5
1 732.4	1412	UMTS Band 4	RMC	M1	Left Tilt	1:1	0.07	34.1	
1 732.4	1412	UMTS Band 4	RMC	M1	Right Cheek	1:1	0.089	33.1	
1 732.4	1412	UMTS Band 4	RMC	M1	Right Tilt	1:1	0.072	34.0	
1 880	9400	UMTS Band 2	RMC	M1	Left Cheek	1:1	0.142	31.7	31.7
1 880	9400	UMTS Band 2	RMC	M1	Left Tilt	1:1	0.044	36.8	
1 880	9400	UMTS Band 2	RMC	M1	Right Cheek	1:1	0.099	33.3	
1 880	9400	UMTS Band 2	RMC	M1	Right Tilt	1:1	0.056	35.8	

Table A-2 DSI = 1 *PLimit* Calculations – 4G Head SAR

MEASUREMENT RESULTS													
Frequency		Mode	Ant.	Band width	Frame Averaged Conducted Power	Test Position	MPR	RB Size	RB offset	Duty Cycle	Meas. SAR(1g)	Plimit	Minimum Plimit
MHz	Ch.			(MHz)	(dBm)		(dB)				(W/kg)	(dBm)	(dBm)
1860	26140	LTE Band 25	M1	20	23.15	Left Cheek	0	1	0	1:1	0.139	31.7	31.7
1860	26140	LTE Band 25	M1	20	23.15	Left Tilt	0	1	0	1:1	0.056	35.7	
1860	26140	LTE Band 25	M1	20	23.15	Right Cheek	0	1	0	1:1	0.111	32.7	
1860	26140	LTE Band 25	M1	20	23.15	Right Tilt	0	1	0	1:1	0.07	34.7	
1860	26140	LTE Band 25	S2	20	17.55	Left Cheek	0	1	0	1:1	0.206	24.4	22.0
1860	26140	LTE Band 25	S2	20	17.55	Left Tilt	0	1	0	1:1	0.249	23.6	
1860	26140	LTE Band 25	S2	20	17.55	Right Cheek	0	1	0	1:1	0.357	22.0	
1860	26140	LTE Band 25	S2	20	17.55	Right Tilt	0	1	0	1:1	0.348	22.1	
1720	132072	LTE Band 66	M1	20	24.41	Left Cheek	0	1	0	1:1	0.194	31.5	31.5
1720	132072	LTE Band 66	M1	20	24.41	Left Tilt	0	1	0	1:1	0.09	34.9	
1720	132072	LTE Band 66	M1	20	24.41	Right Cheek	0	1	0	1:1	0.107	34.1	
1720	132072	LTE Band 66	M1	20	24.41	Right Tilt	0	1	0	1:1	0.069	36.0	
1720	132072	LTE Band 66	S2	20	17.02	Left Cheek	0	1	49	1:1	0.588	19.3	17.5
1720	132072	LTE Band 66	S2	20	17.02	Left Tilt	0	1	49	1:1	0.737	18.3	
1720	132072	LTE Band 66	S2	20	17.02	Right Cheek	0	1	49	1:1	0.886	17.5	
1720	132072	LTE Band 66	S2	20	17.02	Right Tilt	0	1	49	1:1	0.827	17.8	
2535	21100	LTE Band 7	M2	20	22.76	Left Cheek	0	1	0	1:1	0.044	36.3	36.3
2535	21100	LTE Band 7	M2	20	22.76	Left Tilt	0	1	0	1:1	0.00196	49.7	
2535	21100	LTE Band 7	M2	20	22.76	Right Cheek	0	1	0	1:1	0.00924	43.2	
2535	21100	LTE Band 7	M2	20	22.76	Right Tilt	0	1	0	1:1	0.001	52.8	
2510	20850	LTE Band 7	S2	20	15.90	Left Cheek	0	1	0	1:1	0.232	22.2	19.8
2510	20850	LTE Band 7	S2	20	15.90	Left Tilt	0	1	0	1:1	0.41	19.8	
2510	20850	LTE Band 7	S2	20	15.90	Right Cheek	0	1	0	1:1	0.390	20.0	
2510	20850	LTE Band 7	S2	20	15.90	Right Tilt	0	1	0	1:1	0.411	19.8	
707.5	23095	LTE Band 12	M1	10	24.83	Left Cheek	0	1	49	1:1	0.084	35.6	35.6
707.5	23095	LTE Band 12	M1	10	24.83	Left Tilt	0	1	49	1:1	0.036	39.3	
707.5	23095	LTE Band 12	M1	10	24.83	Right Cheek	0	1	49	1:1	0.076	36.0	
707.5	23095	LTE Band 12	M1	10	24.83	Right Tilt	0	1	49	1:1	0.033	39.6	
707.5	23095	LTE Band 12	S1	10	19.90	Left Cheek	0	1	0	1:1	0.667	21.7	21.7
707.5	23095	LTE Band 12	S1	10	19.90	Left Tilt	0	1	0	1:1	0.569	22.3	
707.5	23095	LTE Band 12	S1	10	19.90	Right Cheek	0	1	0	1:1	0.472	23.2	
707.5	23095	LTE Band 12	S1	10	19.90	Right Tilt	0	1	0	1:1	0.421	23.7	
782	23230	LTE Band 13	M1	10	24.38	Left Cheek	0	1	49	1:1	0.063	36.4	36.4
782	23230	LTE Band 13	M1	10	24.38	Left Tilt	0	1	49	1:1	0.034	39.1	
782	23230	LTE Band 13	M1	10	24.38	Right Cheek	0	1	49	1:1	0.045	37.8	
782	23230	LTE Band 13	M1	10	24.38	Right Tilt	0	1	49	1:1	0.024	40.6	
782	23230	LTE Band 13	S1	10	20.92	Left Cheek	0	1	0	1:1	0.695	22.5	22.5
782	23230	LTE Band 13	S1	10	20.92	Left Tilt	0	1	0	1:1	0.533	23.7	
782	23230	LTE Band 13	S1	10	20.92	Right Cheek	0	1	0	1:1	0.448	24.4	
782	23230	LTE Band 13	S1	10	20.92	Right Tilt	0	1	0	1:1	0.387	25.0	

MEASUREMENT RESULTS

Frequency		Mode	Ant.	Band width	Frame Averaged Conducted Power	Test Position	MPR	RB Size	RB offset	Duty Cycle	Meas. SAR(1g)	Plimit	Minimum Plimit
MHz	Ch.			(MHz)	(dBm)		(dB)				(W/kg)	(dBm)	(dBm)
793	23330	LTE Band 14	M1	10	24.85	Left Cheek	0	1	49	1:1	0.061	37.0	37.0
793	23330	LTE Band 14	M1	10	24.85	Left Tilt	0	1	49	1:1	0.025	40.9	
793	23330	LTE Band 14	M1	10	24.85	Right Cheek	0	1	49	1:1	0.039	38.9	
793	23330	LTE Band 14	M1	10	24.85	Right Tilt	0	1	49	1:1	0.02	41.8	
793	23330	LTE Band 14	S1	10	21.06	Left Cheek	0	1	0	1:1	0.687	22.7	22.7
793	23330	LTE Band 14	S1	10	21.06	Left Tilt	0	1	0	1:1	0.548	23.7	
793	23330	LTE Band 14	S1	10	21.06	Right Cheek	0	1	0	1:1	0.454	24.5	
793	23330	LTE Band 14	S1	10	21.06	Right Tilt	0	1	0	1:1	0.396	25.1	
831.5	26865	LTE Band 26	S1	15	20.93	Left Cheek	0	1	0	1:1	0.700	22.5	22.5
831.5	26865	LTE Band 26	S1	15	20.93	Left Tilt	0	1	0	1:1	0.535	23.6	
831.5	26865	LTE Band 26	S1	15	20.93	Right Cheek	0	1	0	1:1	0.413	24.8	
831.5	26865	LTE Band 26	S1	15	20.93	Right Tilt	0	1	0	1:1	0.368	25.3	
831.5	26865	LTE Band 26	M1	15	24.50	Left Cheek	0	1	36	1:1	0.078	35.6	34.5
831.5	26865	LTE Band 26	M1	15	24.50	Left Tilt	0	1	36	1:1	0.031	39.6	
831.5	26865	LTE Band 26	M1	15	24.50	Right Cheek	0	1	36	1:1	0.100	34.5	
831.5	26865	LTE Band 26	M1	15	24.50	Right Tilt	0	1	36	1:1	0.043	38.2	
2310	27710	LTE Band 30	S2	10	16.47	Left Cheek	0	1	0	1:1	0.379	20.7	18.2
2310	27710	LTE Band 30	S2	10	16.47	Left Tilt	0	1	0	1:1	0.207	23.3	
2310	27710	LTE Band 30	S2	10	16.47	Right Cheek	0	1	0	1:1	0.675	18.2	
2310	27710	LTE Band 30	S2	10	16.47	Right Tilt	0	1	0	1:1	0.584	18.8	
2310	27710	LTE Band 30	M1	10	22.78	Left Cheek	0	1	0	1:1	0.070	34.3	34.3
2310	27710	LTE Band 30	M1	10	22.78	Left Tilt	0	1	0	1:1	0.020	39.8	
2310	27710	LTE Band 30	M1	10	22.78	Right Cheek	0	1	0	1:1	0.025	38.8	
2310	27710	LTE Band 30	M1	10	22.78	Right Tilt	0	1	0	1:1	0.025	38.8	
2636.5	41055	LTE Band 41 PC3	M2	20	19.95	Left Cheek	0	1	49	1:1.58	0.035	34.5	34.5
2636.5	41055	LTE Band 41 PC3	M2	20	19.95	Left Tilt	0	1	49	1:1.58	0.00701	41.5	
2636.5	41055	LTE Band 41 PC3	M2	20	19.95	Right Cheek	0	1	49	1:1.58	0.00537	43.0	
2636.5	41055	LTE Band 41 PC3	M2	20	19.95	Right Tilt	0	1	49	1:1.58	0.00168	46.9	
2506	39750	LTE Band 41 PC3	S2	20	15.82	Left Cheek	0	1	49	1:1.58	0.234	22.1	17.6
2506	39750	LTE Band 41 PC3	S2	20	15.82	Left Tilt	0	1	49	1:1.58	0.277	21.4	
2506	39750	LTE Band 41 PC3	S2	20	15.82	Right Cheek	0	1	49	1:1.58	0.564	18.3	
2506	39750	LTE Band 41 PC3	S2	20	15.82	Right Tilt	0	1	49	1:1.58	0.66	17.6	
3560	55340	LTE Band 48	S2	20	14.66	Left Cheek	0	1	99	1:1.58	0.330	19.5	16.4
3560	55340	LTE Band 48	S2	20	14.66	Left Tilt	0	1	0	1:1.58	0.373	18.9	
3560	55340	LTE Band 48	S2	20	14.66	Right Cheek	0	1	0	1:1.58	0.674	16.4	
3560	55340	LTE Band 48	S2	20	14.66	Right Tilt	0	1	0	1:1.58	0.669	16.4	

MEASUREMENT RESULTS

Frequency		Mode	Ant.	Band width	Frame Averaged Conducted Power	Test Position	MPR	RB Size	RB offset	Duty Cycle	Meas. SAR(1g)	Plimit	Minimum Plimit
MHz	Ch.			(MHz)	(dBm)		(dB)				(W/kg)		(dBm)
680.5	133297	LTE Band 71	M1	20	24.47	Left Cheek	0	1	0	1:1	0.078	35.5	35.4
680.5	133297	LTE Band 71	M1	20	24.47	Left Tilt	0	1	0	1:1	0.035	39.0	
680.5	133297	LTE Band 71	M1	20	24.47	Right Cheek	0	1	0	1:1	0.081	35.4	
680.5	133297	LTE Band 71	M1	20	24.47	Right Tilt	0	1	0	1:1	0.015	42.7	
680.5	133297	LTE Band 71	S1	20	20.89	Left Cheek	0	1	0	1:1	0.732	22.2	22.2
680.5	133297	LTE Band 71	S1	20	20.89	Left Tilt	0	1	0	1:1	0.639	22.8	
680.5	133297	LTE Band 71	S1	20	20.89	Right Cheek	0	1	0	1:1	0.515	23.8	
680.5	133297	LTE Band 71	S1	20	20.89	Right Tilt	0	1	0	1:1	0.434	24.5	

Table A-3 DSI = 1 *PLimit* Calculations – NR Head SAR

For some bands/modes, a lower *PLimit* was selected as a more conservative evaluation.

NR TDD Bands : In the case of the NR TDD bands, the *PLimit* were calculated as the Frame average power to which the duty factor was applied to the burst power.

SAR measurements of all NR TDD bands were measured in FTM Mode.

MEASUREMENT RESULTS														
Frequency		Mode	Ant.	Band width	Frame Averaged Conducted Power	Test Configurations		MPR	RB Size	RB offset	Duty Cycle	Meas. SAR (1g)	Plimit	Minimum Plimit
				(MHz)	(dBm)			(dB)				(W/kg)	(dBm)	(dBm)
1882.5	376500	NR n25	M1	40	24.38	Left Cheek	DFT-s-OFDM QPSK	0	1	214	1:1	0.144	32.8	32.8
1882.5	376500	NR n25	M1	40	24.38	Left Tilt	DFT-s-OFDM QPSK	0	1	214	1:1	0.058	36.7	
1882.5	376500	NR n25	M1	40	24.38	Right Cheek	DFT-s-OFDM QPSK	0	1	214	1:1	0.099	34.4	
1882.5	376500	NR n25	M1	40	24.38	Right Tilt	DFT-s-OFDM QPSK	0	1	214	1:1	0.05	37.4	
1882.5	376500	NR n25	S2	40	16.96	Left Cheek	DFT-s-OFDM QPSK	0	1	1	1:1	0.288	22.4	20.9
1882.5	376500	NR n25	S2	40	16.96	Left Tilt	DFT-s-OFDM QPSK	0	1	1	1:1	0.337	21.7	
1882.5	376500	NR n25	S2	40	16.96	Right Cheek	DFT-s-OFDM QPSK	0	1	1	1:1	0.403	20.9	
1882.5	376500	NR n25	S2	40	16.96	Right Tilt	DFT-s-OFDM QPSK	0	1	1	1:1	0.398	21.0	
2535	207000	NR n7	M2	40	22.31	Left Cheek	DFT-s-OFDM QPSK	0	1	214	1:1	0.041	36.2	36.2
2535	207000	NR n7	M2	40	22.31	Left Tilt	DFT-s-OFDM QPSK	0	1	214	1:1	0.035	36.9	
2535	207000	NR n7	M2	40	22.31	Right Cheek	DFT-s-OFDM QPSK	0	1	214	1:1	0.036	36.7	
2535	207000	NR n7	M2	40	22.31	Right Tilt	DFT-s-OFDM QPSK	0	1	214	1:1	0.017	40.0	
2535	207000	NR n7	S2	40	15.75	Left Cheek	DFT-s-OFDM QPSK	0	1	1	1:1	0.236	22.0	18.9
2535	207000	NR n7	S2	40	15.75	Left Tilt	DFT-s-OFDM QPSK	0	1	1	1:1	0.237	22.0	
2535	207000	NR n7	S2	40	15.75	Right Cheek	DFT-s-OFDM QPSK	0	1	1	1:1	0.394	19.8	
2535	207000	NR n7	S2	40	15.75	Right Tilt	DFT-s-OFDM QPSK	0	1	1	1:1	0.483	18.9	
707.5	141500	NR n12	M1	15	23.79	Left Cheek	DFT-s-OFDM QPSK	0	1	77	1:1	0.043	37.5	36.2
707.5	141500	NR n12	M1	15	23.79	Left Tilt	DFT-s-OFDM QPSK	0	1	77	1:1	0.019	41.0	
707.5	141500	NR n12	M1	15	23.79	Right Cheek	DFT-s-OFDM QPSK	0	1	77	1:1	0.058	36.2	
707.5	141500	NR n12	M1	15	23.79	Right Tilt	DFT-s-OFDM QPSK	0	1	77	1:1	0.014	42.3	
707.5	141500	NR n12	S1	15	20.33	Left Cheek	DFT-s-OFDM QPSK	0	1	1	1:1	0.634	22.3	22.3
707.5	141500	NR n12	S1	15	20.33	Left Tilt	DFT-s-OFDM QPSK	0	1	1	1:1	0.594	22.6	
707.5	141500	NR n12	S1	15	20.33	Right Cheek	DFT-s-OFDM QPSK	0	1	1	1:1	0.477	23.5	
707.5	141500	NR n12	S1	15	20.33	Right Tilt	DFT-s-OFDM QPSK	0	1	1	1:1	0.436	23.9	
793	158600	NR n14	M1	10	24.70	Left Cheek	DFT-s-OFDM QPSK	0	1	1	1:1	0.035	39.3	38.4
793	158600	NR n14	M1	10	24.70	Left Tilt	DFT-s-OFDM QPSK	0	1	1	1:1	0.017	42.4	
793	158600	NR n14	M1	10	24.70	Right Cheek	DFT-s-OFDM QPSK	0	1	1	1:1	0.043	38.4	
793	158600	NR n14	M1	10	24.70	Right Tilt	DFT-s-OFDM QPSK	0	1	1	1:1	0.014	43.2	
793	158600	NR n14	S1	10	21.15	Left Cheek	DFT-s-OFDM QPSK	0	1	26	1:1	0.708	22.6	22.6
793	158600	NR n14	S1	10	21.15	Left Tilt	DFT-s-OFDM QPSK	0	1	26	1:1	0.499	24.2	
793	158600	NR n14	S1	10	21.15	Right Cheek	DFT-s-OFDM QPSK	0	1	26	1:1	0.401	25.1	
793	158600	NR n14	S1	10	21.15	Right Tilt	DFT-s-OFDM QPSK	0	1	26	1:1	0.331	26.0	
831.5	166300	NR n26	S1	20	22.1	Left Cheek	DFT-s-OFDM QPSK	0	1	1	1:1	0.792	23.1	23.1
831.5	166300	NR n26	S1	20	22.1	Left Tilt	DFT-s-OFDM QPSK	0	1	1	1:1	0.566	24.6	
831.5	166300	NR n26	S1	20	22.1	Right Cheek	DFT-s-OFDM QPSK	0	1	1	1:1	0.485	25.2	
831.5	166300	NR n26	S1	20	22.1	Right Tilt	DFT-s-OFDM QPSK	0	1	1	1:1	0.450	25.6	

MEASUREMENT RESULTS														
Frequency		Mode	Ant.	Band width	Frame Averaged Conducted Power	Test Configurations		MPR	RB Size	RB offset	Duty Cycle	Meas. SAR (1g)	Plimit	Minimum Plimit
831.5	166300	NR n26	M1	20	24.15	Left Cheek	DFT-s-OFDM QPSK	0	1	1	1:1	0.058	36.5	35.2
831.5	166300	NR n26	M1	20	24.15	Left Tilt	DFT-s-OFDM QPSK	0	1	1	1:1	0.029	39.5	
831.5	166300	NR n26	M1	20	24.15	Right Cheek	DFT-s-OFDM QPSK	0	1	1	1:1	0.079	35.2	
831.5	166300	NR n26	M1	20	24.15	Right Tilt	DFT-s-OFDM QPSK	0	1	1	1:1	0.048	37.3	
2310	462000	NR n30	S2	10	16.66	Left Cheek	DFT-s-OFDM QPSK	0	1	1	1:1	0.355	21.2	18.8
2310	462000	NR n30	S2	10	16.66	Left Tilt	DFT-s-OFDM QPSK	0	1	1	1:1	0.476	19.9	
2310	462000	NR n30	S2	10	16.66	Right Cheek	DFT-s-OFDM QPSK	0	1	1	1:1	0.609	18.8	
2310	462000	NR n30	S2	10	16.66	Right Tilt	DFT-s-OFDM QPSK	0	1	1	1:1	0.593	18.9	
2310	462000	NR n30	M1	10	22.16	Left Cheek	DFT-s-OFDM QPSK	0	1	1	1:1	0.038	36.4	36.4
2310	462000	NR n30	M1	10	22.16	Left Tilt	DFT-s-OFDM QPSK	0	1	1	1:1	0.011	41.7	
2310	462000	NR n30	M1	10	22.16	Right Cheek	DFT-s-OFDM QPSK	0	1	1	1:1	0.01	42.2	
2310	462000	NR n30	M1	10	22.16	Right Tilt	DFT-s-OFDM QPSK	0	1	1	1:1	0.018	39.6	
2592.99	518598	NR n41	S2	100	14.78	Left Cheek	DFT-s-OFDM QPSK	0	1	271	1:1	0.171	22.5	17.9
2592.99	518598	NR n41	S2	100	14.78	Left Tilt	DFT-s-OFDM QPSK	0	1	271	1:1	0.378	19.0	
2592.99	518598	NR n41	S2	100	14.78	Right Cheek	DFT-s-OFDM QPSK	0	1	271	1:1	0.456	18.2	
2592.99	518598	NR n41	S2	100	14.78	Right Tilt	DFT-s-OFDM QPSK	0	1	271	1:1	0.486	17.9	
2592.99	518598	NR n41 SRS 2	M2	100	14.96	Left Cheek	CW	0	-	-	1:1	0.025	31.0	31.0
2592.99	518598	NR n41 SRS 2	M2	100	14.96	Left Tilt	CW	0	-	-	1:1	0.011	34.5	
2592.99	518598	NR n41 SRS 2	M2	100	14.96	Right Cheek	CW	0	-	-	1:1	0.021	31.7	
2592.99	518598	NR n41 SRS 2	M2	100	14.96	Right Tilt	CW	0	-	-	1:1	0.014	33.5	
2592.99	518598	NR n41 SRS 3	S1	100	13.74	Left Cheek	CW	0	-	-	1:1	0.365	18.1	18.1
2592.99	518598	NR n41 SRS 3	S1	100	13.74	Left Tilt	CW	0	-	-	1:1	0.342	18.4	
2592.99	518598	NR n41 SRS 3	S1	100	13.74	Right Cheek	CW	0	-	-	1:1	0.266	19.5	
2592.99	518598	NR n41 SRS 3	S1	100	13.74	Right Tilt	CW	0	-	-	1:1	0.224	20.2	
2592.99	518598	NR n41 SRS 4	M4	100	13.82	Left Cheek	CW	0	-	-	1:1	0.006	36.0	36.0
2592.99	518598	NR n41 SRS 4	M4	100	13.82	Left Tilt	CW	0	-	-	1:1	0.001	43.8	
2592.99	518598	NR n41 SRS 4	M4	100	13.82	Right Cheek	CW	0	-	-	1:1	0.003	39.0	
2592.99	518598	NR n41 SRS 4	M4	100	13.82	Right Tilt	CW	0	-	-	1:1	0.001	43.8	
2592.99	518598	NR n41	M2	100	19.65	Left Cheek	DFT-s-OFDM QPSK	0	1	271	1:1	0.032	34.6	34.6
2592.99	518598	NR n41	M2	100	19.65	Left Tilt	DFT-s-OFDM QPSK	0	1	271	1:1	0.016	37.6	
2592.99	518598	NR n41	M2	100	19.65	Right Cheek	DFT-s-OFDM QPSK	0	1	271	1:1	0.029	35.0	
2592.99	518598	NR n41	M2	100	19.65	Right Tilt	DFT-s-OFDM QPSK	0	1	271	1:1	0.015	37.9	
2592.99	518598	NR n41 SRS 2	S2	100	19.23	Left Cheek	CW	0	-	-	1:1	0.47	22.5	19.6
2592.99	518598	NR n41 SRS 2	S2	100	19.23	Left Tilt	CW	0	-	-	1:1	0.527	22.0	
2592.99	518598	NR n41 SRS 2	S2	100	19.23	Right Cheek	CW	0	-	-	1:1	0.901	19.7	
2592.99	518598	NR n41 SRS 2	S2	100	19.23	Right Tilt	CW	0	-	-	1:1	0.925	19.6	
2592.99	518598	NR n41 SRS 3	M4	100	18.21	Left Cheek	CW	0	-	-	1:1	0.01	38.2	38.2
2592.99	518598	NR n41 SRS 3	M4	100	18.21	Left Tilt	CW	0	-	-	1:1	0.003	43.4	
2592.99	518598	NR n41 SRS 3	M4	100	18.21	Right Cheek	CW	0	-	-	1:1	0.001	48.2	
2592.99	518598	NR n41 SRS 3	M4	100	18.21	Right Tilt	CW	0	-	-	1:1	0.001	48.2	

MEASUREMENT RESULTS														
Frequency		Mode	Ant.	Band width	Frame Averaged Conducted Power	Test Configurations		MPR	RB Size	RB offset	Duty Cycle	Meas. SAR (1g)	Plimit	Minimum Plimit
				(MHz)	(dBm)			(dB)	(W/kg)	(dBm)	(dBm)			
2592.99	518598	NR n41 SRS 4	S1	100	17.23	Left Cheek	CW	0	-	-	1:1	0.894	17.7	17.7
2592.99	518598	NR n41 SRS 4	S1	100	17.23	Left Tilt	CW	0	-	-	1:1	0.776	18.3	
2592.99	518598	NR n41 SRS 4	S1	100	17.23	Right Cheek	CW	0	-	-	1:1	0.285	22.7	
2592.99	518598	NR n41 SRS 4	S1	100	17.23	Right Tilt	CW	0	-	-	1:1	0.343	21.9	
1745	349000	NR n66	M1	40	24.48	Left Cheek	DFT-s-OFDM QPSK	0	1	1	1:1	0.237	30.3	30.3
1745	349000	NR n66	M1	40	25.32	Left Tilt	DFT-s-OFDM QPSK	0	1	1	1:1	0.095	34.3	
1745	349000	NR n66	M1	40	24.48	Right Cheek	DFT-s-OFDM QPSK	0	1	1	1:1	0.159	32.0	
1745	349000	NR n66	M1	40	25.32	Right Tilt	DFT-s-OFDM QPSK	0	1	1	1:1	0.101	34.0	
1745	349000	NR n66	S2	40	16.90	Left Cheek	DFT-s-OFDM QPSK	0	1	1	1:1	0.444	20.4	18.4
1745	349000	NR n66	S2	40	16.90	Left Tilt	DFT-s-OFDM QPSK	0	1	1	1:1	0.61	19.0	
1745	349000	NR n66	S2	40	16.90	Right Cheek	DFT-s-OFDM QPSK	0	1	1	1:1	0.697	18.5	
1745	349000	NR n66	S2	40	16.90	Right Tilt	DFT-s-OFDM QPSK	0	1	1	1:1	0.7	18.4	
1702.5	340500	NR n70	M1	15	23.40	Left Cheek	DFT-s-OFDM QPSK	0	1	1	1:1	0.172	31.0	31.0
1702.5	340500	NR n70	M1	15	23.40	Left Tilt	DFT-s-OFDM QPSK	0	1	1	1:1	0.083	34.2	
1702.5	340500	NR n70	M1	15	23.40	Right Cheek	DFT-s-OFDM QPSK	0	1	1	1:1	0.1	33.4	
1702.5	340500	NR n70	M1	15	23.40	Right Tilt	DFT-s-OFDM QPSK	0	1	1	1:1	0.07	34.9	
1702.5	340500	NR n70	S2	15	16.60	Left Cheek	DFT-s-OFDM QPSK	0	1	77	1:1	0.459	20.0	18.0
1702.5	340500	NR n70	S2	15	16.60	Left Tilt	DFT-s-OFDM QPSK	0	1	77	1:1	0.675	18.3	
1702.5	340500	NR n70	S2	15	16.60	Right Cheek	DFT-s-OFDM QPSK	0	1	77	1:1	0.65	18.5	
1702.5	340500	NR n70	S2	15	16.60	Right Tilt	DFT-s-OFDM QPSK	0	1	77	1:1	0.73	18.0	
680.5	136100	NR n71	M1	20	24.38	Left Cheek	DFT-s-OFDM QPSK	0	1	53	1:1	0.05	37.4	36.0
680.5	136100	NR n71	M1	20	24.38	Left Tilt	DFT-s-OFDM QPSK	0	1	53	1:1	0.025	40.4	
680.5	136100	NR n71	M1	20	24.38	Right Cheek	DFT-s-OFDM QPSK	0	1	53	1:1	0.069	36.0	
680.5	136100	NR n71	M1	20	24.38	Right Tilt	DFT-s-OFDM QPSK	0	1	53	1:1	0.013	43.2	
680.5	136100	NR n71	S1	20	21.01	Left Cheek	DFT-s-OFDM QPSK	0	1	53	1:1	0.594	23.3	23.3
680.5	136100	NR n71	S1	20	21.01	Left Tilt	DFT-s-OFDM QPSK	0	1	53	1:1	0.551	23.6	
680.5	136100	NR n71	S1	20	21.01	Right Cheek	DFT-s-OFDM QPSK	0	1	53	1:1	0.52	23.8	
680.5	136100	NR n71	S1	20	21.01	Right Tilt	DFT-s-OFDM QPSK	0	1	53	1:1	0.414	24.8	
3570	638000	NR n48	S2	40	14.55	Left Cheek	DFT-s-OFDM QPSK	0	1	1	1:1	0.299	19.8	16.2
3570	638000	NR n48	S2	40	14.55	Left Tilt	DFT-s-OFDM QPSK	0	1	1	1:1	0.376	18.8	
3570	638000	NR n48	S2	40	14.55	Right Cheek	DFT-s-OFDM QPSK	0	1	1	1:1	0.577	16.9	
3570	638000	NR n48	S2	40	14.55	Right Tilt	DFT-s-OFDM QPSK	0	1	1	1:1	0.687	16.2	
3680.01	645334	NR n48 SRS 2	M3	40	9.39	Left Cheek	CW	0	-	-	1:1	0.002	36.4	36.4
3680.01	645334	NR n48 SRS 2	M3	40	9.39	Left Tilt	CW	0	-	-	1:1	0.002	36.4	
3680.01	645334	NR n48 SRS 2	M3	40	9.39	Right Cheek	CW	0	-	-	1:1	0	39.4	
3680.01	645334	NR n48 SRS 2	M3	40	9.39	Right Tilt	CW	0	-	-	1:1	0.002	36.4	
3624.99	641666	NR n48 SRS 3	S5	40	12.93	Left Cheek	CW	0	-	-	1:1	0.063	24.9	20.5
3624.99	641666	NR n48 SRS 3	S5	40	12.93	Left Tilt	CW	0	-	-	1:1	0.002	39.9	
3624.99	641666	NR n48 SRS 3	S5	40	12.93	Right Cheek	CW	0	-	-	1:1	0.175	20.5	
3624.99	641666	NR n48 SRS 3	S5	40	12.93	Right Tilt	CW	0	-	-	1:1	0.002	39.9	

MEASUREMENT RESULTS															
Frequency		Mode	Ant.	Band width	Frame Averaged Conducted Power	Test Configurations		MPR	RB Size	RB offset	Duty Cycle	Meas. SAR (1g)	Plimit	Minimum Plimit	
				(MHz)	(dBm)			(dB)				(W/kg)	(dBm)	(dBm)	
3624.99	641666	NR n48 SRS 4	M4	40	8.31	Left Cheek	CW	0	-	-	1:1	0.001	38.5	38.5	
3624.99	641666	NR n48 SRS 4	M4	40	8.31	Left Tilt	CW	0	-	-	1:1	0.001	38.5		
3624.99	641666	NR n48 SRS 4	M4	40	8.31	Right Cheek	CW	0	-	-	1:1	0.001	38.5		
3624.99	641666	NR n48 SRS 4	M4	40	8.31	Right Tilt	CW	0	-	-	1:1	0.001	38.5		
3750	650000	NR n77	S2	100	14.31	Left Cheek	DFT-s-OFDM QPSK	0	1	1	1:1	0.304	19.5	16.1	
3750	650000	NR n77	S2	100	14.31	Left Tilt	DFT-s-OFDM QPSK	0	1	1	1:1	0.317	19.3		
3750	650000	NR n77	S2	100	14.31	Right Cheek	DFT-s-OFDM QPSK	0	1	1	1:1	0.47	17.6		
3750	650000	NR n77	S2	100	14.31	Right Tilt	DFT-s-OFDM QPSK	0	1	1	1:1	0.665	16.1		
3930	662000	NR n77 SRS 2	M3	100	3.09	Left Cheek	CW	0	-	-	1:1	0.003	30.8	28.3	
3930	662000	NR n77 SRS 2	M3	100	3.09	Left Tilt	CW	0	-	-	1:1	0.005	28.6		
3930	662000	NR n77 SRS 2	M3	100	3.09	Right Cheek	CW	0	-	-	1:1	0.001	35.6		
3930	662000	NR n77 SRS 2	M3	100	3.09	Right Tilt	CW	0	-	-	1:1	0.001	35.6		
3930	662000	NR n77 SRS 3	S5	100	6.54	Left Cheek	CW	0	-	-	1:1	0.051	23.5	18.5	
3930	662000	NR n77 SRS 3	S5	100	6.54	Left Tilt	CW	0	-	-	1:1	0.006	32.7		
3930	662000	NR n77 SRS 3	S5	100	6.54	Right Cheek	CW	0	-	-	1:1	0.161	18.5		
3930	662000	NR n77 SRS 3	S5	100	6.54	Right Tilt	CW	0	-	-	1:1	0.005	33.5		
3930	662000	NR n77 SRS 4	M4	100	2.68	Left Cheek	CW	0	-	-	1:1	0.002	34.4	32.7	
3930	662000	NR n77 SRS 4	M4	100	2.68	Left Tilt	CW	0	-	-	1:1	0	37.4		
3930	662000	NR n77 SRS 4	M4	100	2.68	Right Cheek	CW	0	-	-	1:1	0.003	32.6		
3930	662000	NR n77 SRS 4	M4	100	2.68	Right Tilt	CW	0	-	-	1:1	0	37.4		
3500.01	633334	NR n77 DoD	S2	100	14.53	Right Tilt	DFT-s-OFDM QPSK	0	1	1	1:1	0.548	17.1	17.1	
3500.01	633334	NR n77 DoD SRS 2	M3	100	4.41	Left Tilt	CW	0	-	-	1:1	0.001	37.1	37.1	
3500.01	633334	NR n77 DoD SRS 3	S5	100	6.39	Right Cheek	CW	0	-	-	1:1	0.207	17.4	17.4	
3500.01	633334	NR n77 DoD SRS 4	M4	100	3.52	Right Cheek	CW	0	-	-	1:1	0.001	37.1	37.1	

Table A-4 DSI = 1 *PLimit* Calculations – WLAN Head SAR

MEASUREMENT RESULTS													
Frequency		Mode/ Band	Band width	Ant. No.	Data Rate	Frame Averaged	Test Position	Ant. Config.	Duty Cycle	Meas. SAR(1g)	Scaling Factor	Plimit	Minimum Plimit
Mhz	Ch.				(Mbps)	(dBm)				(W/kg)	(Duty)	(dBm)	(dBm)
2 412	1	802.11b	20	S4	1	14.59	Left Cheek	WIFI1	0.989	0.078	1.011	25.7	18.1
2 412	1	802.11b	20	S4	1	14.59	Left Tilt	WIFI1	0.989	0.094	1.011	24.9	
2 412	1	802.11b	20	S4	1	14.59	Right Cheek	WIFI1	0.989	0.441	1.011	18.1	
2 412	1	802.11b	20	S4	1	14.59	Right Tilt	WIFI1	0.989	0.320	1.011	19.5	
2 412	1	802.11b	20	S6	1	14.64	Left Cheek	WIFI2	0.989	0.345	1.011	19.3	19.3
2 412	1	802.11b	20	S6	1	14.64	Left Tilt	WIFI2	0.989	0.064	1.011	26.6	
2 412	1	802.11b	20	S6	1	14.64	Right Cheek	WIFI2	0.989	0.117	1.011	24.0	
2 412	1	802.11b	20	S6	1	14.64	Right Tilt	WIFI2	0.989	0.150	1.011	22.9	
2 412	1	802.11b	20	S4,6	1	14.59	Left Cheek	WIFI1,2	0.989	0.543	1.011	17.2	16.9
2 412	1	802.11b	20	S4,6	1	14.59	Left Tilt	WIFI1,2	0.989	0.160	1.011	22.5	
2 412	1	802.11b	20	S4,6	1	14.59	Right Cheek	WIFI1,2	0.989	0.592	1.011	16.9	
2 412	1	802.11b	20	S4,6	1	14.59	Right Tilt	WIFI1,2	0.989	0.317	1.011	19.6	
5 290	58	802.11ax	80	S4	MCS0	14.25	Left Cheek	WIFI1	0.996	0.149	1.189	22.5	16.5
5 290	58	802.11ax	80	S4	MCS0	14.25	Left Tilt	WIFI1	0.996	0.164	1.189	22.1	
5 290	58	802.11ax	80	S4	MCS0	14.25	Right Cheek	WIFI1	0.996	0.590	1.189	16.5	
5 290	58	802.11ax	80	S4	MCS0	14.25	Right Tilt	WIFI1	0.996	0.331	1.189	19.1	
5 290	58	802.11ax	80	S1	MCS0	14.11	Left Cheek	WIFI2	0.996	0.137	1.227	22.7	22.7
5 290	58	802.11ax	80	S1	MCS0	14.11	Left Tilt	WIFI2	0.996	0.122	1.227	23.2	
5 290	58	802.11ax	80	S1	MCS0	14.11	Right Cheek	WIFI2	0.996	0.054	1.227	26.8	
5 290	58	802.11ax	80	S1	MCS0	14.11	Right Tilt	WIFI2	0.996	0.062	1.227	26.2	
5 290	58	802.11ax	80	S1,4	MCS0	14.11	Left Cheek	WIFI1,2	0.996	0.173	1.227	21.7	16.0
5 290	58	802.11ax	80	S1,4	MCS0	14.11	Left Tilt	WIFI1,2	0.996	0.141	1.227	22.6	
5 290	58	802.11ax	80	S1,4	MCS0	14.11	Right Cheek	WIFI1,2	0.996	0.649	1.227	16.0	
5 290	58	802.11ax	80	S1,4	MCS0	14.11	Right Tilt	WIFI1,2	0.996	0.338	1.227	18.8	
5690	138	802.11ac	80	S4	MCS0	13.53	Left Cheek	WIFI1	0.924	0.091	1.403	23.9	16.8
5690	138	802.11ac	80	S4	MCS0	13.53	Left Tilt	WIFI1	0.924	0.05	1.403	26.5	
5690	138	802.11ac	80	S4	MCS0	13.53	Right Cheek	WIFI1	0.924	0.473	1.403	16.8	
5690	138	802.11ac	80	S4	MCS0	13.53	Right Tilt	WIFI1	0.924	0.178	1.403	21.0	
5690	138	802.11ac	80	S1	MCS0	13.80	Left Cheek	WIFI2	0.924	0.155	1.318	21.9	21.9
5690	138	802.11ac	80	S1	MCS0	13.80	Left Tilt	WIFI2	0.924	0.145	1.318	22.2	
5690	138	802.11ac	80	S1	MCS0	13.80	Right Cheek	WIFI2	0.924	0.055	1.318	26.4	
5690	138	802.11ac	80	S1	MCS0	13.80	Right Tilt	WIFI2	0.924	0.069	1.318	25.4	
5690	138	802.11ac	80	S1,4	MCS0	13.53	Left Cheek	WIFI1,2	0.924	0.19	1.403	20.7	17.0
5690	138	802.11ac	80	S1,4	MCS0	13.53	Left Tilt	WIFI1,2	0.924	0.153	1.403	21.7	
5690	138	802.11ac	80	S1,4	MCS0	13.53	Right Cheek	WIFI1,2	0.924	0.449	1.403	17.0	
5690	138	802.11ac	80	S1,4	MCS0	13.53	Right Tilt	WIFI1,2	0.924	0.177	1.403	21.1	
5775	155	802.11ac	80	S4	MCS0	13.28	Left Cheek	WIFI1	0.924	0.034	1.486	28.0	15.7
5775	155	802.11ac	80	S4	MCS0	13.28	Left Tilt	WIFI1	0.924	0.037	1.486	27.6	
5775	155	802.11ac	80	S4	MCS0	13.28	Right Cheek	WIFI1	0.924	0.569	1.486	15.7	
5775	155	802.11ac	80	S4	MCS0	13.28	Right Tilt	WIFI1	0.924	0.16	1.486	21.2	
5775	155	802.11ac	80	S1	MCS0	13.37	Left Cheek	WIFI2	0.924	0.286	1.455	18.8	18.8
5775	155	802.11ac	80	S1	MCS0	13.37	Left Tilt	WIFI2	0.924	0.203	1.455	20.3	
5775	155	802.11ac	80	S1	MCS0	13.37	Right Cheek	WIFI2	0.924	0.058	1.455	25.7	
5775	155	802.11ac	80	S1	MCS0	13.37	Right Tilt	WIFI2	0.924	0.053	1.455	26.1	

5775	155	802.11ac	80	S1,4	MCS0	13.28	Left Cheek	WIFI1,2	0.924	0.192	1.455	20.4	17.0
5775	155	802.11ac	80	S1,4	MCS0	13.28	Left Tilt	WIFI1,2	0.924	0.172	1.455	20.9	
5775	155	802.11ac	80	S1,4	MCS0	13.28	Right Cheek	WIFI1,2	0.924	0.423	1.455	17.0	
5775	155	802.11ac	80	S1,4	MCS0	13.28	Right Tilt	WIFI1,2	0.924	0.155	1.455	21.4	

MEASUREMENT RESULTS													
Frequency		Mode/ Band	Band width	Ant. No.	Data Rate	Frame Averaged	Test Position	Ant. Config.	Duty Cycle	Meas. SAR(1g)	Scaling Factor	Plimit	Minimum Plimit
MHz	Ch.				(Mbps)	Conducted Power				(W/kg)	(Duty)	(dBm)	(dBm)
5855	171	802.11ac	80	S4	MCS0	13.36	Left Cheek	WIFI1	0.924	0.09	1.459	23.8	16.4
5855	171	802.11ac	80	S4	MCS0	13.36	Left Tilt	WIFI1	0.924	0.069	1.459	25.0	
5855	171	802.11ac	80	S4	MCS0	13.36	Right Cheek	WIFI1	0.924	0.497	1.459	16.4	
5855	171	802.11ac	80	S4	MCS0	13.36	Right Tilt	WIFI1	0.924	0.149	1.459	21.6	
5855	171	802.11ac	80	S1	MCS0	13.04	Left Cheek	WIFI2	0.924	0.203	1.570	20.0	20.0
5855	171	802.11ac	80	S1	MCS0	13.04	Left Tilt	WIFI2	0.924	0.159	1.570	21.0	
5855	171	802.11ac	80	S1	MCS0	13.04	Right Cheek	WIFI2	0.924	0.052	1.570	25.9	
5855	171	802.11ac	80	S1	MCS0	13.04	Right Tilt	WIFI2	0.924	0.046	1.570	26.4	
5855	171	802.11ac	80	S1,4	MCS0	13.04	Left Cheek	WIFI1,2	0.924	0.177	1.570	20.6	16.1
5855	171	802.11ac	80	S1,4	MCS0	13.04	Left Tilt	WIFI1,2	0.924	0.127	1.570	22.0	
5855	171	802.11ac	80	S1,4	MCS0	13.04	Right Cheek	WIFI1,2	0.924	0.489	1.570	16.1	
5855	171	802.11ac	80	S1,4	MCS0	13.04	Right Tilt	WIFI1,2	0.924	0.141	1.570	21.5	
6985	207	802.11ax	160	S4	MCS0	8.97	Left Cheek	WIFI1	0.996	0.035	1.007	23.5	19.9
6985	207	802.11ax	160	S4	MCS0	8.97	Left Tilt	WIFI1	0.996	0.033	1.007	23.8	
6985	207	802.11ax	160	S4	MCS0	8.97	Right Cheek	WIFI1	0.996	0.08	1.007	19.9	
6985	207	802.11ax	160	S4	MCS0	8.97	Right Tilt	WIFI1	0.996	0.05	1.007	22.0	
6985	207	802.11ax	160	S1	MCS0	8.96	Left Cheek	WIFI2	0.996	0.027	1.009	24.6	24.6
6985	207	802.11ax	160	S1	MCS0	8.96	Left Tilt	WIFI2	0.996	0.022	1.009	25.5	
6985	207	802.11ax	160	S1	MCS0	8.96	Right Cheek	WIFI2	0.996	0.004	1.009	32.9	
6985	207	802.11ax	160	S1	MCS0	8.96	Right Tilt	WIFI2	0.996	0.006	1.009	31.2	
6985	207	802.11ax	160	S1,4	MCS0	8.96	Left Cheek	WIFI1,2	0.996	0.032	1.009	23.9	20.3
6985	207	802.11ax	160	S1,4	MCS0	8.96	Left Tilt	WIFI1,2	0.996	0.033	1.009	23.8	
6985	207	802.11ax	160	S1,4	MCS0	8.96	Right Cheek	WIFI1,2	0.996	0.074	1.009	20.3	
6985	207	802.11ax	160	S1,4	MCS0	8.96	Right Tilt	WIFI1,2	0.996	0.059	1.009	21.3	

MEASUREMENT RESULTS										
Frequency		Mode/ Band	Ant. No.	Frame Averaged	Test Position	Ant. Config.	Meas. SAR(1g)	Scaling Factor	Plimit	Minimum Plimit
				Conducted Power			(W/kg)	(Duty)	(dBm)	(dBm)
MHz	Ch.			(dBm)						
2 442	39	DH-5	S4	16.24	Left Cheek	Ant 1	0.128	1.191	25.2	19.2
2 442	39	DH-5	S4	16.24	Left Tilt	Ant 1	0.176	1.191	23.8	
2 442	39	DH-5	S4	16.24	Right Cheek	Ant 1	0.508	1.191	19.2	
2 442	39	DH-5	S4	16.24	Right Tilt	Ant 1	0.403	1.191	20.2	
2 442	39	DH-5	S6	16.42	Left Cheek	Ant 2	0.792	1.143	17.4	17.4
2 442	39	DH-5	S6	16.42	Left Tilt	Ant 2	0.114	1.143	25.9	
2 442	39	DH-5	S6	16.42	Right Cheek	Ant 2	0.407	1.143	20.3	
2 442	39	DH-5	S6	16.42	Right Tilt	Ant 2	0.054	1.143	29.1	
2440	17	LE 1M	S4	16.47	Left Cheek	Ant 1	0.136	1.130	25.1	19.4
2440	17	LE 1M	S4	16.47	Left Tilt	Ant 1	0.154	1.130	24.6	
2440	17	LE 1M	S4	16.47	Right Cheek	Ant 1	0.505	1.130	19.4	
2440	17	LE 1M	S4	16.47	Right Tilt	Ant 1	0.383	1.130	20.6	
2440	17	LE 1M	S6	16.63	Left Cheek	Ant 2	0.59	1.089	18.9	18.9
2440	17	LE 1M	S6	16.63	Left Tilt	Ant 2	0.071	1.089	28.1	
2440	17	LE 1M	S6	16.63	Right Cheek	Ant 2	0.229	1.089	23.0	
2440	17	LE 1M	S6	16.63	Right Tilt	Ant 2	0.037	1.089	30.9	

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

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

MEASUREMENT RESULTS											
Frequency		Mode/ Band		Ant. No.	Frame Averaged Conducted Power	Test Position	Spacing (mm)	Duty Cycle	Meas. SAR(1g)	Plimit	Minimum Plimit
MHz	Ch.				(dBm)				(W/kg)	(dBm)	(dBm)
836.6	190	GSM 850	GPRS2Tx	M1	24.72	Rear	10	1:4.15	0.169	32.4	31.8
836.6	190	GSM 850	GPRS2Tx	M1	24.72	Front	10	1:4.15	0.198	31.8	
848.8	251	GSM 850	GPRS2Tx	S1	24.72	Rear	10	1:4.15	0.615	26.8	26.8
848.8	251	GSM 850	GPRS2Tx	S1	24.72	Front	10	1:4.15	0.388	26.8	
1860	661	GSM 1900	GPRS4Tx	M1	19.10	Rear	10	1:4.15	0.361	23.5	22.0
1860	661	GSM 1900	GPRS4Tx	M1	19.10	Front	10	1:4.15	0.513	22.0	
836.6	4183	UMTS Band 5	RMC	M1	23.6	Rear	10	1:1	0.206	30.5	30.0
836.6	4183	UMTS Band 5	RMC	M1	23.6	Front	10	1:1	0.229	30.0	
836.6	4183	UMTS Band 5	RMC	S1	23.78	Rear	10	1:1	0.429	27.5	27.5
836.6	4183	UMTS Band 5	RMC	S1	23.78	Front	10	1:1	0.392	27.8	
1880	9400	UMTS Band 2	RMC	M1	19.72	Rear	10	1:1	0.509	22.7	22.7
1880	9400	UMTS Band 2	RMC	M1	19.72	Front	10	1:1	0.497	22.8	
1732.4	1412	UMTS Band 4	RMC	M1	18.97	Rear	10	1:1	0.448	22.5	22.5
1732.4	1412	UMTS Band 4	RMC	M1	18.97	Front	10	1:1	0.257	24.9	

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

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

MEASUREMENT RESULTS														
Frequency		Mode	Ant. No.	Band width	Frame Averaged Conducted Power	Test Position	Spacing (mm)	MPR	RB Size	RB offset	Duty Cycle	Meas. SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.			(MHz)	(dBm)			(dB)				(W/kg)	(dBm)	(dBm)
1905	26590	LTE Band 25	M2	20	19.88	Rear	10	0	1	99	1:1	0.256	25.8	25.0
1905	26590	LTE Band 25	M2	20	19.88	Front	10	0	1	99	1:1	0.311	25.0	
1882.5	26365	LTE Band 25	S2	20	19.33	Rear	10	0	1	49	1:1	0.141	27.8	27.8
1882.5	26365	LTE Band 25	S2	20	19.33	Front	10	0	1	49	1:1	0.097	29.5	
1720	132072	LTE Band 66	M1	20	19.79	Rear	10	0	1	0	1:1	0.366	24.2	24.2
1720	132072	LTE Band 66	M1	20	19.79	Front	10	0	1	0	1:1	0.343	24.4	
1770	132572	LTE Band 66	S1	20	17.99	Rear	10	0	1	0	1:1	0.402	21.9	21.9
1770	132572	LTE Band 66	S1	20	17.99	Front	10	0	1	0	1:1	0.162	25.9	
2535	21100	LTE Band 7	M2	20	20.08	Rear	10	0	1	0	1:1	0.195	27.2	27.2
2535	21100	LTE Band 7	M2	20	20.08	Front	10	0	1	0	1:1	0.189	27.3	
2535	21100	LTE Band 7	S2	20	19.19	Rear	10	0	1	49	1:1	0.147	27.5	27.5
2535	21100	LTE Band 7	S2	20	19.19	Front	10	0	1	49	1:1	0.102	29.1	
707.5	23095	LTE Band 12	M1	10	24.83	Rear	10	0	1	49	1:1	0.284	30.3	30.3
707.5	23095	LTE Band 12	M1	10	24.83	Front	10	0	1	49	1:1	0.145	33.2	
707.5	23095	LTE Band 12	S1	10	24.02	Rear	10	0	1	0	1:1	0.597	26.3	26.3
707.5	23095	LTE Band 12	S1	10	24.02	Front	10	0	1	0	1:1	0.419	27.8	
782	23230	LTE Band 13	M1	10	24.38	Rear	10	0	1	49	1:1	0.158	32.4	32.4
782	23230	LTE Band 13	M1	10	24.38	Front	10	0	1	49	1:1	0.145	32.8	
782	23230	LTE Band 13	S1	10	23.84	Rear	10	0	1	0	1:1	0.295	29.1	29.1
782	23230	LTE Band 13	S1	10	23.84	Front	10	0	1	0	1:1	0.210	30.6	
793	23330	LTE Band 14	M1	10	23.13	Rear	10	0	1	49	1:1	0.184	30.5	30.5
793	23330	LTE Band 14	M1	10	23.13	Front	10	0	1	49	1:1	0.170	30.8	
793	23330	LTE Band 14	S1	10	22.69	Rear	10	0	1	0	1:1	0.469	26.0	26.0
793	23330	LTE Band 14	S1	10	22.69	Front	10	0	1	0	1:1	0.356	27.2	
831.5	26865	LTE Band 26	M1	15	24.50	Rear	10	0	1	36	1:1	0.272	30.2	29.2
831.5	26865	LTE Band 26	M1	15	24.50	Front	10	0	1	36	1:1	0.340	29.2	
831.5	26865	LTE Band 26	S1	15	24.51	Rear	10	0	1	36	1:1	0.390	28.6	28.6
831.5	26865	LTE Band 26	S1	15	24.51	Front	10	0	1	36	1:1	0.304	29.7	
2310	27710	LTE Band 30	M1	10	20.07	Rear	10	0	1	0	1:1	0.432	23.7	23.7
2310	27710	LTE Band 30	M1	10	20.07	Front	10	0	1	0	1:1	0.273	25.7	
2310	27710	LTE Band 30	S2	10	19.19	Rear	10	0	1	24	1:1	0.388	23.3	23.3
2310	27710	LTE Band 30	S2	10	19.19	Front	10	0	1	24	1:1	0.236	25.5	
2680	41490	LTE Band 41 PC3	M2	20	20.50	Rear	10	0	1	49	1:1.58	0.198	27.5	27.5
2680	41490	LTE Band 41 PC3	M2	20	20.50	Front	10	0	1	49	1:1.58	0.198	27.5	
2506	39750	LTE Band 41 PC3	S2	20	18.31	Rear	10	0	1	49	1:1.58	0.137	26.9	26.9
2506	39750	LTE Band 41 PC3	S2	20	18.31	Front	10	0	1	49	1:1.58	0.094	28.6	
3560	55340	LTE Band 48	S2	20	19.10	Rear	10	0	1	99	1:1.58	0.434	22.7	22.7
3560	55340	LTE Band 48	S2	20	19.10	Front	10	0	1	99	1:1.58	0.158	27.1	

MEASUREMENT RESULTS														
Frequency		Mode	Ant. No.	Band width	Frame Averaged Conducted Power	Test Position	Spacing (mm)	MPR	RB Size	RB offset	Duty Cycle	Meas. SAR (1g)	Plimit	Minimum Plimit
				(MHz)	(dBm)			(dB)				(W/kg)	(dBm)	(dBm)
680.5	133297	LTE Band 71	M1	20	24.47	Rear	10	0	1	0	1:1	0.359	28.9	28.9
680.5	133297	LTE Band 71	M1	20	24.47	Front	10	0	1	0	1:1	0.143	32.9	
680.5	133297	LTE Band 71	S1	20	24.19	Rear	10	0	1	0	1:1	0.535	26.9	26.9
680.5	133297	LTE Band 71	S1	20	24.19	Front	10	0	1	0	1:1	0.402	28.1	

Table A-7 DSI = 0 *PLimit* Calculations – NR Body-Worn SAR

For some bands/modes, a lower *PLimit* was selected as a more conservative evaluation.

NR TDD Bands : In the case of the NR TDD bands, the *PLimit* were calculated as the Frame average power to which the duty factor was applied to the burst power.0

SAR measurements of all NR TDD bands were measured in FTM Mode.

MEASUREMENT RESULTS

Frequency		Mode	Ant. No.	Band width	Frame Averaged Conducted Power	Test Position		MPR	Spacing (mm)	RB Size	RB offset	Duty Cycle	Meas. SAR(1g)	Plimit	Minimum Plimit
MHz	Ch.			(MHz)	(dBm)			(dB)					(W/kg)	(dBm)	(dBm)
1882.5	376500	NR n25	M1	40	20.07	Rear	DFT-s-OFDM QPSK	0	10	1	214	1:1	0.675	21.8	21.8
1882.5	376500	NR n25	M1	40	20.07	Front	DFT-s-OFDM QPSK	0	10	1	214	1:1	0.401	24.0	
1882.5	376500	NR n25	S2	40	18.30	Rear	DFT-s-OFDM QPSK	0	10	1	1	1:1	0.42	22.1	22.1
1882.5	376500	NR n25	S2	40	18.30	Front	DFT-s-OFDM QPSK	0	10	1	1	1:1	0.249	24.3	
2535	507000	NR n7	M2	40	20.16	Rear	DFT-s-OFDM QPSK	0	10	1	214	1:1	0.2	27.1	27.1
2535	507000	NR n7	M2	40	20.16	Front	DFT-s-OFDM QPSK	0	10	1	214	1:1	0.175	27.7	
2535	507000	NR n7	S2	40	17.87	Rear	DFT-s-OFDM QPSK	0	10	1	1	1:1	0.17	25.6	25.6
2535	507000	NR n7	S2	40	17.87	Front	DFT-s-OFDM QPSK	0	10	1	1	1:1	0.123	27.0	
707.5	141500	NR n12	M1	15	23.79	Rear	DFT-s-OFDM QPSK	0	10	1	77	1:1	0.184	31.1	31.1
707.5	141500	NR n12	M1	15	23.79	Front	DFT-s-OFDM QPSK	0	10	1	77	1:1	0.158	31.8	
707.5	141500	NR n12	S1	15	23.83	Rear	DFT-s-OFDM QPSK	0	10	1	1	1:1	0.493	26.9	26.9
707.5	141500	NR n12	S1	15	23.83	Front	DFT-s-OFDM QPSK	0	10	1	1	1:1	0.371	28.1	
793	158600	NR n14	M1	10	24.70	Rear	DFT-s-OFDM QPSK	0	10	1	1	1:1	0.119	33.9	33.1
793	158600	NR n14	M1	10	24.70	Front	DFT-s-OFDM QPSK	0	10	1	1	1:1	0.145	33.1	
793	158600	NR n14	S1	10	24.96	Rear	DFT-s-OFDM QPSK	0	10	1	1	1:1	0.496	28.0	28.0
793	158600	NR n14	S1	10	24.96	Front	DFT-s-OFDM QPSK	0	10	1	1	1:1	0.375	29.2	
831.5	166300	NR n26	M1	20	24.15	Rear	DFT-s-OFDM QPSK	0	10	1	1	1:1	0.198	31.2	31.2
831.5	166300	NR n26	M1	20	24.15	Front	DFT-s-OFDM QPSK	0	10	1	1	1:1	0.158	32.2	
831.5	166300	NR n26	S1	20	24.10	Rear	DFT-s-OFDM QPSK	0	10	1	53	1:1	0.343	28.7	28.7
831.5	166300	NR n26	S1	20	24.10	Front	DFT-s-OFDM QPSK	0	10	1	53	1:1	0.262	29.9	
2310	462000	NR n30	M1	10	19.61	Rear	DFT-s-OFDM QPSK	0	10	1	1	1:1	0.26	25.5	25.5
2310	462000	NR n30	M1	10	19.61	Front	DFT-s-OFDM QPSK	0	10	1	1	1:1	0.148	27.9	
2310	462000	NR n30	S2	10	19.19	Rear	DFT-s-OFDM QPSK	0	10	1	1	1:1	0.315	24.2	24.2
2310	462000	NR n30	S2	10	19.19	Front	DFT-s-OFDM QPSK	0	10	1	1	1:1	0.224	25.7	
2592.99	518598	NR n41	S2	100	19.33	Rear	DFT-s-OFDM QPSK	0	10	1	271	1:1	0.386	23.5	23.5
2592.99	518598	NR n41	S2	100	19.33	Front	DFT-s-OFDM QPSK	0	10	1	271	1:1	0.385	23.5	
2592.99	518598	NR n41	M2	100	21.07	Rear	DFT-s-OFDM QPSK	0	10	1	271	1:1	0.076	32.3	31.8
2592.99	518598	NR n41	M2	100	21.07	Front	DFT-s-OFDM QPSK	0	10	1	271	1:1	0.085	31.8	
2593	518598	NR n41 SRS2	M2	100	20.31	Rear	CW	0	10	-	-	1:1	0.229	26.7	26.7
2593	518598	NR n41 SRS2	M2	100	20.31	Front	CW	0	10	-	-	1:1	0.146	28.7	
2593	518598	NR n41 SRS2	S2	100	20.66	Rear	CW	0	10	-	-	1:1	0.032	35.6	35.6
2593	518598	NR n41 SRS2	S2	100	20.66	Front	CW	0	10	-	-	1:1	0.025	36.7	

MEASUREMENT RESULTS

Frequency		Mode	Ant. No.	Band width	Frame Averaged Conducted Power	Test Position		MPR	Spacing (mm)	RB Size	RB offset	Duty Cycle	Meas. SAR(1g)	Plimit	Minimum Plimit
Mhz	Ch.														
				(MHz)	(dBm)			(dB)					(W/kg)	(dBm)	(dBm)
2593	518598	NR n41 SRS3	S1	100	19.26	Rear	CW	0	10	-	-	1:1	0.295	24.6	23.5
2593	518598	NR n41 SRS3	S1	100	19.26	Front	CW	0	10	-	-	1:1	0.377	23.5	
2593	518598	NR n41 SRS3	M4	100	19.19	Rear	CW	0	10	-	-	1:1	0.131	28.0	28.0
2593	518598	NR n41 SRS3	M4	100	19.19	Front	CW	0	10	-	-	1:1	0.038	33.4	
2593	518598	NR n41 SRS4	M4	100	19.24	Rear	CW	0	10	-	-	1:1	0.175	26.8	26.8
2593	518598	NR n41 SRS4	M4	100	19.24	Front	CW	0	10	-	-	1:1	0.105	29.0	
2593	518598	NR n41 SRS4	S1	100	18.23	Rear	CW	0	10	-	-	1:1	0.097	28.4	28.4
2593	518598	NR n41 SRS4	S1	100	18.23	Front	CW	0	10	-	-	1:1	0.085	28.9	
3570	638000	NR n48	S2	40	19.52	Rear	DFT-s-OFDM QPSK	0	10	1	1	1:1	0.473	22.8	22.8
3570	638000	NR n48	S2	40	19.52	Front	DFT-s-OFDM QPSK	0	10	1	1	1:1	0.29	24.9	
3680.01	645334	NR n48 SRS 2	M3	40	13.98	Rear	CW	0	10	-	-	1:1	0.086	24.6	24.6
3680.01	645334	NR n48 SRS 2	M3	40	13.98	Front	CW	0	10	-	-	1:1	0.059	26.3	
3624.99	641666	NR n48 SRS 3	S5	40	17.96	Rear	CW	0	10	-	-	1:1	0.099	28.0	28.0
3624.99	641666	NR n48 SRS 3	S5	40	17.96	Front	CW	0	10	-	-	1:1	0.073	29.3	
3680.01	645334	NR n48 SRS 4	M4	40	13.41	Rear	CW	0	10	-	-	1:1	0.045	26.9	26.9
3680.01	645334	NR n48 SRS 4	M4	40	13.41	Front	CW	0	10	-	-	1:1	0.001	43.4	
1745	349000	NR n66	M1	40	19.84	Rear	DFT-s-OFDM QPSK	0	10	1	1	1:1	0.645	21.7	21.7
1745	349000	NR n66	M1	40	19.84	Front	DFT-s-OFDM QPSK	0	10	1	1	1:1	0.413	23.7	
1745	349000	NR n66	S2	40	20.43	Rear	DFT-s-OFDM QPSK	0	10	1	1	1:1	0.416	24.2	24.2
1745	349000	NR n66	S2	40	20.43	Front	DFT-s-OFDM QPSK	0	10	1	1	1:1	0.189	27.7	
1702.5	340500	NR n70	M1	15	20.06	Rear	DFT-s-OFDM QPSK	0	10	1	1	1:1	0.655	21.9	21.9
1702.5	340500	NR n70	M1	15	20.06	Front	DFT-s-OFDM QPSK	0	10	1	1	1:1	0.47	23.3	
1702.5	340500	NR n70	S2	15	21.19	Rear	DFT-s-OFDM QPSK	0	10	1	40	1:1	0.573	23.6	23.6
1702.5	340500	NR n70	S2	15	21.19	Front	DFT-s-OFDM QPSK	0	10	1	40	1:1	0.428	24.9	
680.5	136100	NR n71	M1	20	24.38	Rear	DFT-s-OFDM QPSK	0	10	1	53	1:1	0.258	30.3	30.3
680.5	136100	NR n71	M1	20	24.38	Front	DFT-s-OFDM QPSK	0	10	1	53	1:1	0.163	32.3	
680.5	136100	NR n71	S1	20	24.12	Rear	DFT-s-OFDM QPSK	0	10	1	53	1:1	0.431	27.8	27.8
680.5	136100	NR n71	S1	20	24.12	Front	DFT-s-OFDM QPSK	0	10	1	53	1:1	0.323	29.0	
3930	662000	NR n77	S2	100	16.41	Rear	DFT-s-OFDM QPSK	0	10	1	1	1:1	0.693	18.0	18.0
3750	650000	NR n77	S2	100	16.79	Front	DFT-s-OFDM QPSK	0	10	1	1	1:1	0.166	24.6	
3930	662000	NR n77 SRS 2	M3	100	5.08	Rear	CW	0	10	-	-	1:1	0.011	28.8	28.8
3930	662000	NR n77 SRS 2	M3	100	5.08	Front	CW	0	10	-	-	1:1	0.004	33.2	
3930	662000	NR n77 SRS 3	S5	100	8.77	Rear	CW	0	10	-	-	1:1	0.02	30.9	30.9
3930	662000	NR n77 SRS 3	S5	100	8.77	Front	CW	0	10	-	-	1:1	0.017	31.6	
3930	662000	NR n77 SRS 4	M4	100	4.47	Rear	CW	0	10	-	-	1:1	0.026	25.5	25.5
3930	662000	NR n77 SRS 4	M4	100	4.47	Front	CW	0	10	-	-	1:1	0	39.7	

Table A-8 DSI = 0 *PLimit* Calculations – WLAN Body-Worn SAR

MEASUREMENT RESULTS													
Frequency		Mode/ Band	Band width	Ant. No.	Data Rate	Frame Averaged Conducted Power	Test Position	Ant. Config.	Duty Cycle	Meas. SAR(1g)	Scaling Factor	Plimit	Minimum Plimit
MHz	Ch.				(Mbps)	(dBm)				(W/kg)	(Duty)	(dBm)	(dBm)
2 462	11	802.11b	20	S4	1	19.03	Rear	WIFI1	1	0.365	1	23.4	23.4
2 462	11	802.11b	20	S4	1	19.03	Front	WIFI1	1	0.304	1	24.2	
2 412	1	802.11b	20	S6	1	18.54	Rear	WIFI2	1	0.273	1	24.2	24.2
2 412	1	802.11b	20	S6	1	18.54	Front	WIFI2	1	0.225	1	25.0	
2 412	1	802.11b	20	S4,6	1	18.54	Rear	WIFI1,2	1	0.525	1	21.3	21.3
2 412	1	802.11b	20	S4,6	1	18.54	Front	WIFI1,2	1	0.371	1	22.8	
5270	54	802.11n	40	S4	MCS0	17.97	Rear	WIFI1	0.92	0.510	1.087	20.9	20.9
5270	54	802.11n	40	S4	MCS0	17.97	Front	WIFI1	0.92	0.176	1.087	25.5	
5270	54	802.11n	40	S1	MCS0	17.56	Rear	WIFI2	0.92	0.406	1.087	21.5	21.5
5270	54	802.11n	40	S1	MCS0	17.56	Front	WIFI2	0.92	0.072	1.087	29.0	
5270	54	802.11n	40	S1,4	MCS8	17.56	Rear	WIFI1,2	0.92	0.508	1.087	20.5	20.5
5270	54	802.11n	40	S1,4	MCS8	17.56	Front	WIFI1,2	0.92	0.165	1.087	25.4	
5690	138	802.11ac	80	S4	MCS0	17.03	Rear	WIFI1	0.924	0.388	1.082	21.1	21.1
5690	138	802.11ac	80	S4	MCS0	17.03	Front	WIFI1	0.924	0.148	1.082	25.3	
5690	138	802.11ac	80	S1	MCS0	17.69	Rear	WIFI2	0.924	0.330	1.082	22.5	22.5
5690	138	802.11ac	80	S1	MCS0	17.69	Front	WIFI2	0.924	0.083	1.082	28.5	
5690	138	802.11ac	80	S1,4	MCS0	17.03	Rear	WIFI1,2	0.924	0.499	1.082	20.0	20.0
5690	138	802.11ac	80	S1,4	MCS0	17.03	Front	WIFI1,2	0.924	0.235	1.082	23.3	
5775	155	802.11ac	80	S4	MCS0	17.11	Rear	WIFI1	0.924	0.430	1.082	20.8	20.8
5775	155	802.11ac	80	S4	MCS0	17.11	Front	WIFI1	0.924	0.096	1.082	27.3	
5775	155	802.11ac	80	S1	MCS0	17.03	Rear	WIFI2	0.924	0.172	1.082	24.7	24.7
5775	155	802.11ac	80	S1	MCS0	17.03	Front	WIFI2	0.924	0.053	1.082	29.8	
5775	155	802.11ac	80	S1,4	MCS0	17.03	Rear	WIFI1,2	0.924	0.455	1.082	20.4	20.4
5775	155	802.11ac	80	S1,4	MCS0	17.03	Front	WIFI1,2	0.924	0.125	1.082	26.1	
5855	171	802.11ac	80	S4	MCS0	17.17	Rear	WIFI1	0.924	0.33	1.082	22.0	22.0
5855	171	802.11ac	80	S4	MCS0	17.17	Front	WIFI1	0.924	0.163	1.082	25.0	
5855	171	802.11ac	80	S1	MCS0	16.82	Rear	WIFI2	0.924	0.252	1.082	22.8	22.8
5855	171	802.11ac	80	S1	MCS0	16.82	Front	WIFI2	0.924	0.066	1.082	28.6	
5855	171	802.11ac	80	S1,4	MCS0	16.82	Rear	WIFI1,2	0.924	0.425	1.082	20.5	20.5
5855	171	802.11ac	80	S1,4	MCS0	16.82	Front	WIFI1,2	0.924	0.160	1.082	24.8	
6985	207	802.11ax	160	S4	MCS0	8.97	Rear	WIFI1	0.996	0.040	1.004	22.9	22.9
6985	207	802.11ax	160	S4	MCS0	8.97	Front	WIFI1	0.996	0.014	1.004	27.5	
6985	207	802.11ax	160	S1	MCS0	8.96	Rear	WIFI2	0.996	0.034	1.004	23.6	23.6
6985	207	802.11ax	160	S1	MCS0	8.96	Front	WIFI2	0.996	0.002	1.004	35.9	
6985	207	802.11ax	160	S1,4	MCS0	8.96	Rear	WIFI1,2	0.996	0.019	1.004	26.2	26.2
6985	207	802.11ax	160	S1,4	MCS0	8.96	Front	WIFI1,2	0.996	0.017	1.004	26.7	

MEASUREMENT RESULTS

Frequency		Mode/ Band	Ant. No.	Frame Averaged Conducted Power	Test Position	Ant. Config.	Meas. SAR(1g)	Scaling Factor	Plimit	Minimum Plimit
MHz	Ch.			(dBm)			(W/kg)	(Duty)	(dBm)	(dBm)
2442	39	DH5	S4	18.26	Rear	Ant 1	0.226	1.01	24.7	24.7
2442	39	DH5	S4	18.26	Front	Ant 1	0.152	1.01	26.4	
2442	39	DH5	S6	18.52	Rear	Ant 2	0.148	1.01	26.8	26.8
2442	39	DH5	S6	18.52	Front	Ant 2	0.131	1.01	27.3	
2440	17	LE 1M	S4	16.47	Rear	Ant 1	0.216	1.00	23.1	22.1
2440	17	LE 1M	S4	16.47	Front	Ant 1	0.276	1.00	22.1	
2440	17	LE 1M	S6	16.63	Rear	Ant 2	0.083	1.00	27.4	27.4
2440	17	LE 1M	S6	16.63	Front	Ant 2	0.082	1.00	27.5	

Table A-9 DSI = 0 P_{Limit} Calculations – 2G/3G Hotspot SAR

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

MEASUREMENT RESULTS											
Frequency		Mode/ Band		Ant. No.	Frame Averaged Conducted Power	Test Position	Spacing (mm)	Duty Cycle	Meas. SAR(1g)	Plimit	Minimum Plimit
					(dBm)				(W/kg)	(dBm)	(dBm)
MHz	Ch.										
836.6	190	GSM 850	GPRS2Tx	M1	24.72	Rear	10	1:4.15	0.169	32.4	30.7
836.6	190	GSM 850	GPRS2Tx	M1	24.72	Front	10	1:4.15	0.198	31.8	
836.6	190	GSM 850	GPRS2Tx	M1	24.72	Left	10	1:4.15	0.209	31.5	
836.6	190	GSM 850	GPRS2Tx	M1	24.72	Right	10	1:4.15	0.253	30.7	
836.6	190	GSM 850	GPRS2Tx	M1	24.72	Bottom	10	1:4.15	0.045	38.2	
848.8	251	GSM 850	GPRS2Tx	S1	24.72	Rear	10	1:4.15	0.615	26.8	26.8
848.8	251	GSM 850	GPRS2Tx	S1	24.72	Front	10	1:4.15	0.388	28.8	
848.8	251	GSM 850	GPRS2Tx	S1	24.72	Right	10	1:4.15	0.374	29.0	
848.8	251	GSM 850	GPRS2Tx	S1	24.72	Top	10	1:4.15	0.42	28.5	
1860	661	GSM 1900	GPRS2Tx	M1	19.10	Rear	10	1:4.15	0.361	23.5	21.5
1860	661	GSM 1900	GPRS2Tx	M1	19.10	Front	10	1:4.15	0.513	22.0	
1860	661	GSM 1900	GPRS2Tx	M1	19.10	Left	10	1:4.15	0.186	26.4	
1860	661	GSM 1900	GPRS2Tx	M1	19.10	Right	10	1:4.15	0.071	30.6	
1860	661	GSM 1900	GPRS2Tx	M1	19.10	Bottom	10	1:4.15	0.571	21.5	

MEASUREMENT RESULTS											
Frequency		Mode/ Band		Ant. No.	Frame Averaged Conducted Power	Test Position	Spacing (mm)	Duty Cycle	Meas. SAR(1g)	Plimit	Minimum Plimit
					(dBm)				(W/kg)	(dBm)	(dBm)
836.6	4183	UMTS Band 5	RMC	M1	23.6	Rear	10	1:1	0.206	30.5	30.0
836.6	4183	UMTS Band 5	RMC	M1	23.6	Front	10	1:1	0.229	30.0	
836.6	4183	UMTS Band 5	RMC	M1	23.6	Left	10	1:1	0.222	30.1	
836.6	4183	UMTS Band 5	RMC	M1	23.6	Right	10	1:1	0.195	30.7	
836.6	4183	UMTS Band 5	RMC	M1	23.6	Bottom	10	1:1	0.047	36.9	
836.6	4183	UMTS Band 5	RMC	S1	23.78	Rear	10	1:1	0.429	27.5	27.5
836.6	4183	UMTS Band 5	RMC	S1	23.78	Front	10	1:1	0.392	27.8	
836.6	4183	UMTS Band 5	RMC	S1	23.78	Right	10	1:1	0.369	28.1	
836.6	4183	UMTS Band 5	RMC	S1	23.78	Top	10	1:1	0.294	29.1	
1732.4	1412	UMTS Band 4	RMC	M1	18.97	Rear	10	1:1	0.448	22.5	21.2
1732.4	1412	UMTS Band 4	RMC	M1	18.97	Front	10	1:1	0.257	24.9	
1732.4	1412	UMTS Band 4	RMC	M1	18.97	Left	10	1:1	0.123	28.1	
1732.4	1412	UMTS Band 4	RMC	M1	18.97	Right	10	1:1	0.053	31.7	
1732.4	1412	UMTS Band 4	RMC	M1	18.97	Bottom	10	1:1	0.672	21.2	
1880	9400	UMTS Band 2	RMC	M1	19.72	Rear	10	1:1	0.509	22.7	20.1
1880	9400	UMTS Band 2	RMC	M1	19.72	Front	10	1:1	0.497	22.8	
1880	9400	UMTS Band 2	RMC	M1	19.72	Left	10	1:1	0.097	29.9	
1880	9400	UMTS Band 2	RMC	M1	19.72	Right	10	1:1	0.056	32.2	
1880	9400	UMTS Band 2	RMC	M1	19.72	Bottom	10	1:1	0.912	20.1	

Table A-10 DSI = 0 P_{Limit} Calculations – 4G Hotspot SAR

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

MEASUREMENT RESULTS														
Frequency		Mode	Ant. No.	Band width	Frame Averaged Conducted Power	Test Position	Spacing (mm)	MPR	RB Size	RB offset	Duty Cycle	Meas. SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.			(MHz)	(dBm)			(dB)				(W/kg)	(dBm)	(dBm)
1905	26590	LTE Band 25	M1	20	19.88	Rear	10	0	1	99	1:1	0.256	25.8	22.1
1905	26590	LTE Band 25	M1	20	19.88	Front	10	0	1	99	1:1	0.311	25.0	
1905	26590	LTE Band 25	M1	20	19.88	Left	10	0	1	99	1:1	0.092	30.2	
1905	26590	LTE Band 25	M1	20	19.88	Right	10	0	1	99	1:1	0.065	31.8	
1905	26590	LTE Band 25	M1	20	19.88	Bottom	10	0	1	99	1:1	0.594	22.1	
1882.5	26365	LTE Band 25	S2	20	19.33	Rear	10	0	1	49	1:1	0.141	27.8	26.8
1882.5	26365	LTE Band 25	S2	20	19.33	Front	10	0	1	49	1:1	0.097	29.5	
1882.5	26365	LTE Band 25	S2	20	19.33	Left	10	0	1	49	1:1	0.024	35.5	
1882.5	26365	LTE Band 25	S2	20	19.33	Top	10	0	1	49	1:1	0.178	26.8	
1720	132072	LTE Band 66	M1	20	19.79	Rear	10	0	1	0	1:1	0.366	24.2	21.6
1720	132072	LTE Band 66	M1	20	19.79	Front	10	0	1	0	1:1	0.343	24.4	
1720	132072	LTE Band 66	M1	20	19.79	Left	10	0	1	0	1:1	0.106	29.5	
1720	132072	LTE Band 66	M1	20	19.79	Right	10	0	1	0	1:1	0.049	32.9	
1720	132072	LTE Band 66	M1	20	19.79	Bottom	10	0	1	0	1:1	0.652	21.6	
1770	132572	LTE Band 66	S2	20	17.99	Rear	10	0	1	0	1:1	0.402	21.9	20.9
1770	132572	LTE Band 66	S2	20	17.99	Front	10	0	1	0	1:1	0.162	25.9	
1770	132572	LTE Band 66	S2	20	17.99	Left	10	0	1	0	1:1	0.152	26.2	
1770	132572	LTE Band 66	S2	20	17.99	Top	10	0	1	0	1:1	0.512	20.9	
2535	21100	LTE Band 7	M2	20	20.08	Rear	10	0	1	0	1:1	0.195	27.2	27.2
2535	21100	LTE Band 7	M2	20	20.08	Front	10	0	1	0	1:1	0.189	27.3	
2535	21100	LTE Band 7	M2	20	20.08	Left	10	0	1	0	1:1	0.1	30.1	
2535	21100	LTE Band 7	M2	20	20.08	Bottom	10	0	1	0	1:1	0.121	29.3	
707.5	23095	LTE Band 7	S2	20	19.19	Rear	10	0	1	49	1:1	0.147	27.5	25.7
707.5	23095	LTE Band 7	S2	20	19.19	Front	10	0	1	49	1:1	0.102	29.1	
707.5	23095	LTE Band 7	S2	20	19.19	Left	10	0	1	49	1:1	0.021	36.0	
707.5	23095	LTE Band 7	S2	20	19.19	Top	10	0	1	49	1:1	0.221	25.7	
707.5	23095	LTE Band 12	M1	10	24.83	Rear	10	0	1	49	1:1	0.284	30.3	30.3
707.5	23095	LTE Band 12	M1	10	24.83	Front	10	0	1	49	1:1	0.145	33.2	
707.5	23095	LTE Band 12	M1	10	24.83	Left	10	0	1	49	1:1	0.107	34.5	
707.5	23095	LTE Band 12	M1	10	24.83	Right	10	0	1	49	1:1	0.094	35.1	
707.5	23095	LTE Band 12	M1	10	24.83	Bottom	10	0	1	49	1:1	0.059	37.1	
707.5	23095	LTE Band 12	S1	10	24.02	Rear	10	0	1	0	1:1	0.597	26.3	26.3
707.5	23095	LTE Band 12	S1	10	24.02	Front	10	0	1	0	1:1	0.419	27.8	
707.5	23095	LTE Band 12	S1	10	24.02	Right	10	0	1	0	1:1	0.105	33.8	
707.5	23095	LTE Band 12	S1	10	24.02	Top	10	0	1	0	1:1	0.446	27.5	

MEASUREMENT RESULTS

Frequency		Mode	Ant. No.	Band width	Frame Averaged Conducted Power	Test Position	Spacing (mm)	MPR	RB Size	RB offset	Duty Cycle	Meas. SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.													
				(MHz)	(dBm)			(dB)				(W/kg)	(dBm)	(dBm)
782	23230	LTE Band 13	M1	10	24.38	Rear	10	0	1	49	1:1	0.158	32.4	31.4
782	23230	LTE Band 13	M1	10	24.38	Front	10	0	1	49	1:1	0.145	32.8	
782	23230	LTE Band 13	M1	10	24.38	Left	10	0	1	49	1:1	0.2	31.4	
782	23230	LTE Band 13	M1	10	24.38	Right	10	0	1	49	1:1	0.147	32.7	
782	23230	LTE Band 13	M1	10	24.38	Bottom	10	0	1	49	1:1	0.047	37.7	
782	23230	LTE Band 13	S1	10	23.84	Rear	10	0	1	0	1:1	0.295	29.1	29.1
782	23230	LTE Band 13	S1	10	23.84	Front	10	0	1	0	1:1	0.210	30.6	
782	23230	LTE Band 13	S1	10	23.84	Right	10	0	1	0	1:1	0.086	34.5	
782	23230	LTE Band 13	S1	10	23.84	Top	10	0	1	0	1:1	0.242	30.0	
793	23330	LTE Band 14	M1	10	23.13	Rear	10	0	1	49	1:1	0.184	30.5	29.0
793	23330	LTE Band 14	M1	10	23.13	Front	10	0	1	49	1:1	0.17	30.8	
793	23330	LTE Band 14	M1	10	23.13	Left	10	0	1	49	1:1	0.261	29.0	
793	23330	LTE Band 14	M1	10	23.13	Right	10	0	1	49	1:1	0.186	30.4	
793	23330	LTE Band 14	M1	10	23.13	Bottom	10	0	1	49	1:1	0.053	35.9	
793	23330	LTE Band 14	S1	10	22.69	Rear	10	0	1	0	1:1	0.469	26.0	26.0
793	23330	LTE Band 14	S1	10	22.69	Front	10	0	1	0	1:1	0.356	27.2	
793	23330	LTE Band 14	S1	10	22.69	Right	10	0	1	0	1:1	0.184	30.0	
793	23330	LTE Band 14	S1	10	22.69	Top	10	0	1	0	1:1	0.374	27.0	
831.5	26865	LTE Band 26	M1	15	24.50	Rear	10	0	1	36	1:1	0.272	30.2	29.2
831.5	26865	LTE Band 26	M1	15	24.50	Front	10	0	1	36	1:1	0.34	29.2	
831.5	26865	LTE Band 26	M1	15	24.50	Left	10	0	1	36	1:1	0.208	31.3	
831.5	26865	LTE Band 26	M1	15	24.50	Right	10	0	1	36	1:1	0.225	31.0	
831.5	26865	LTE Band 26	M1	15	24.50	Bottom	10	0	1	36	1:1	0.046	37.9	
831.5	26865	LTE Band 26	S1	15	24.51	Rear	10	0	1	36	1:1	0.39	28.6	28.6
831.5	26865	LTE Band 26	S1	15	24.51	Front	10	0	1	36	1:1	0.304	29.7	
831.5	26865	LTE Band 26	S1	15	24.51	Right	10	0	1	36	1:1	0.155	32.6	
831.5	26865	LTE Band 26	S1	15	24.51	Top	10	0	1	36	1:1	0.304	29.7	
2310	27710	LTE Band 30	M1	10	20.07	Rear	10	0	1	0	1:1	0.432	23.7	21.3
2310	27710	LTE Band 30	M1	10	20.07	Front	10	0	1	0	1:1	0.273	25.7	
2310	27710	LTE Band 30	M1	10	20.07	Left	10	0	1	0	1:1	0.035	34.6	
2310	27710	LTE Band 30	M1	10	20.07	Right	10	0	1	0	1:1	0.00715	41.6	
2310	27710	LTE Band 30	M1	10	20.07	Bottom	10	0	1	0	1:1	0.762	21.3	
2310	27710	LTE Band 30	S2	10	19.19	Rear	10	0	1	24	1:1	0.388	23.3	23.2
2310	27710	LTE Band 30	S2	10	19.19	Front	10	0	1	24	1:1	0.236	25.5	
2310	27710	LTE Band 30	S2	10	19.19	Left	10	0	1	24	1:1	0.099	29.2	
2310	27710	LTE Band 30	S2	10	19.19	Top	10	0	1	24	1:1	0.395	23.2	

MEASUREMENT RESULTS

Frequency		Mode	Ant. No.	Band width	Frame Averaged Conducted Power	Test Position	Spacing (mm)	MPR	RB Size	RB offset	Duty Cycle	Meas. SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.													
				(MHz)	(dBm)			(dB)				(W/kg)	(dBm)	(dBm)
2680	41490	LTE Band 41 PC3	M2	20	20.50	Rear	10	0	1	49	1:1	0.198	27.5	27.5
2680	41490	LTE Band 41 PC3	M2	20	20.50	Front	10	0	1	49	1:1	0.198	27.5	
2680	41490	LTE Band 41 PC3	M2	20	20.50	Left	10	0	1	49	1:1	0.116	29.9	
2680	41490	LTE Band 41 PC3	M2	20	20.50	Bottom	10	0	1	49	1:1	0.145	28.9	
2506	39750	LTE Band 41 PC3	S2	20	18.31	Rear	10	0	1	49	1:1	0.137	26.9	24.9
2506	39750	LTE Band 41 PC3	S2	20	18.31	Front	10	0	1	49	1:1	0.094	28.6	
2506	39750	LTE Band 41 PC3	S2	20	18.31	Left	10	0	1	49	1:1	0.016	36.3	
2506	39750	LTE Band 41 PC3	S2	20	18.31	Top	10	0	1	49	1:1	0.222	24.9	
3560	55340	LTE Band 48	S2	20	19.10	Rear	10	0	1	99	1:1	0.434	22.4	21.2
3560	55340	LTE Band 48	S2	20	19.10	Front	10	0	1	99	1:1	0.158	26.8	
3560	55340	LTE Band 48	S2	20	19.10	Left	10	0	1	99	1:1	0.132	27.6	
3560	55340	LTE Band 48	S2	20	19.10	Top	10	0	1	99	1:1	0.58	21.2	
680.5	133297	LTE Band 71	M1	20	24.47	Rear	10	0	1	0	1:1	0.359	28.9	28.9
680.5	133297	LTE Band 71	M1	20	24.47	Front	10	0	1	0	1:1	0.143	32.9	
680.5	133297	LTE Band 71	M1	20	24.47	Left	10	0	1	0	1:1	0.147	32.8	
680.5	133297	LTE Band 71	M1	20	24.47	Right	10	0	1	0	1:1	0.114	33.9	
680.5	133297	LTE Band 71	M1	20	24.47	Bottom	10	0	1	0	1:1	0.063	36.5	
680.5	133297	LTE Band 71	S1	20	24.19	Rear	10	0	1	0	1:1	0.535	26.9	26.9
680.5	133297	LTE Band 71	S1	20	24.19	Front	10	0	1	0	1:1	0.402	28.1	
680.5	133297	LTE Band 71	S1	20	24.19	Right	10	0	1	0	1:1	0.118	33.5	
680.5	133297	LTE Band 71	S1	20	24.19	Top	10	0	1	0	1:1	0.408	28.1	

Table A-11 DSI = 0 *PLimit* Calculations – NR Hotspot SAR

For some bands/modes, a lower *PLimit* was selected as a more conservative evaluation.

NR TDD Bands : In the case of the NR TDD bands, the *PLimit* were calculated as the Frame average power to which the duty factor was applied to the burst power.0

SAR measurements of all NR TDD bands were measured in FTM Mode.

MEASUREMENT RESULTS															
Frequency		Mode	Ant. No.	Band width	Frame Averaged Conducted Power	Test Position		MPR	Spacing (mm)	RB Size	RB offset	Duty Cycle	Meas. SAR(1g)	Plimit	Minimu Plimit
MHz	Ch.			(MHz)	(dBm)			(dB)					(W/kg)	(dBm)	(dBm)
1882.5	376500	NR n25	M1	40	20.07	Rear	DFT-s-OFDM QPSK	0	10	1	214	1:1	0.675	21.8	21.5
1882.5	376500	NR n25	M1	40	20.07	Front	DFT-s-OFDM QPSK	0	10	1	214	1:1	0.401	24.0	
1882.5	376500	NR n25	M1	40	20.07	Left	DFT-s-OFDM QPSK	0	10	1	214	1:1	0.125	29.1	
1882.5	376500	NR n25	M1	40	20.07	Right	DFT-s-OFDM QPSK	0	10	1	214	1:1	0.034	34.8	
1882.5	376500	NR n25	M1	40	20.07	Bottom	DFT-s-OFDM QPSK	0	10	1	214	1:1	0.714	21.5	
1882.5	376500	NR n25	S2	40	18.30	Rear	DFT-s-OFDM QPSK	0	10	1	1	1:1	0.42	22.1	19.9
1882.5	376500	NR n25	S2	40	18.30	Front	DFT-s-OFDM QPSK	0	10	1	1	1:1	0.249	24.3	
1882.5	376500	NR n25	S2	40	18.30	Left	DFT-s-OFDM QPSK	0	10	1	1	1:1	0.121	27.5	
1882.5	376500	NR n25	S2	40	18.30	Top	DFT-s-OFDM QPSK	0	10	1	1	1:1	0.685	19.9	
2535	507000	NR n7	M2	40	20.16	Rear	DFT-s-OFDM QPSK	0	10	1	214	1:1	0.2	27.1	26.6
2535	507000	NR n7	M2	40	20.16	Front	DFT-s-OFDM QPSK	0	10	1	214	1:1	0.175	27.7	
2535	507000	NR n7	M2	40	20.16	Left	DFT-s-OFDM QPSK	0	10	1	214	1:1	0.111	29.7	
2535	507000	NR n7	M2	40	20.16	Bottom	DFT-s-OFDM QPSK	0	10	1	214	1:1	0.229	26.6	
2535	507000	NR n7	S2	40	17.87	Rear	DFT-s-OFDM QPSK	0	10	1	1	1:1	0.17	25.6	24.4
2535	507000	NR n7	S2	40	17.87	Front	DFT-s-OFDM QPSK	0	10	1	1	1:1	0.123	27.0	
2535	507000	NR n7	S2	40	17.87	Left	DFT-s-OFDM QPSK	0	10	1	1	1:1	0.02	34.9	
2535	507000	NR n7	S2	40	17.87	Top	DFT-s-OFDM QPSK	0	10	1	1	1:1	0.222	24.4	
707.5	141500	NR n12	M1	15	23.79	Rear	DFT-s-OFDM QPSK	0	10	1	77	1:1	0.184	31.1	31.1
707.5	141500	NR n12	M1	15	23.79	Front	DFT-s-OFDM QPSK	0	10	1	77	1:1	0.158	31.8	
707.5	141500	NR n12	M1	15	23.79	Left	DFT-s-OFDM QPSK	0	10	1	77	1:1	0.105	33.6	
707.5	141500	NR n12	M1	15	23.79	Right	DFT-s-OFDM QPSK	0	10	1	77	1:1	0.073	35.2	
707.5	141500	NR n12	M1	15	23.79	Bottom	DFT-s-OFDM QPSK	0	10	1	77	1:1	0.064	35.7	
707.5	141500	NR n12	S1	15	23.83	Rear	DFT-s-OFDM QPSK	0	10	1	1	1:1	0.493	26.9	26.9
707.5	141500	NR n12	S1	15	23.83	Front	DFT-s-OFDM QPSK	0	10	1	1	1:1	0.371	28.1	
707.5	141500	NR n12	S1	15	23.83	Right	DFT-s-OFDM QPSK	0	10	1	1	1:1	0.285	29.3	
707.5	141500	NR n12	S1	15	23.83	Top	DFT-s-OFDM QPSK	0	10	1	1	1:1	0.417	27.6	
793	158600	NR n14	M1	10	24.70	Rear	DFT-s-OFDM QPSK	0	10	1	1	1:1	0.119	33.9	31.5
793	158600	NR n14	M1	10	24.70	Front	DFT-s-OFDM QPSK	0	10	1	1	1:1	0.145	33.1	
793	158600	NR n14	M1	10	24.70	Left	DFT-s-OFDM QPSK	0	10	1	1	1:1	0.207	31.5	
793	158600	NR n14	M1	10	24.70	Right	DFT-s-OFDM QPSK	0	10	1	1	1:1	0.115	34.1	
793	158600	NR n14	M1	10	24.70	Bottom	DFT-s-OFDM QPSK	0	10	1	1	1:1	0.054	37.4	
793	158600	NR n14	S1	10	24.96	Rear	DFT-s-OFDM QPSK	0	10	1	1	1:1	0.496	28.0	28.0
793	158600	NR n14	S1	10	24.96	Front	DFT-s-OFDM QPSK	0	10	1	1	1:1	0.375	29.2	
793	158600	NR n14	S1	10	24.96	Right	DFT-s-OFDM QPSK	0	10	1	1	1:1	0.485	28.1	
793	158600	NR n14	S1	10	24.96	Top	DFT-s-OFDM QPSK	0	10	1	1	1:1	0.356	29.4	

MEASUREMENT RESULTS															
Frequency		Mode	Ant. No.	Band width	Frame Averaged Conducted Power	Test Position		MPR	Spacing (mm)	RB Size	RB offset	Duty Cycle	Meas. SAR(1g)	Plimit	Minimu Plimit
Mhz	Ch.			(MHz)	(dBm)			(dB)					(W/kg)	(dBm)	(dBm)
831.5	166300	NR n26	M1	20	24.15	Rear	DFT-s-OFDM QPSK	0	10	1	1	1:1	0.198	31.2	31.2
831.5	166300	NR n26	M1	20	24.15	Front	DFT-s-OFDM QPSK	0	10	1	1	1:1	0.158	32.2	
831.5	166300	NR n26	M1	20	24.15	Left	DFT-s-OFDM QPSK	0	10	1	1	1:1	0.186	31.5	
831.5	166300	NR n26	M1	20	24.15	Right	DFT-s-OFDM QPSK	0	10	1	1	1:1	0.174	31.7	
831.5	166300	NR n26	M1	20	24.15	Bottom	DFT-s-OFDM QPSK	0	10	1	1	1:1	0.045	37.6	
831.5	166300	NR n26	S1	20	24.10	Rear	DFT-s-OFDM QPSK	0	10	1	53	1:1	0.343	28.7	28.0
831.5	166300	NR n26	S1	20	24.10	Front	DFT-s-OFDM QPSK	0	10	1	53	1:1	0.262	29.9	
831.5	166300	NR n26	S1	20	24.10	Right	DFT-s-OFDM QPSK	0	10	1	53	1:1	0.405	28.0	
831.5	166300	NR n26	S1	20	24.10	Top	DFT-s-OFDM QPSK	0	10	1	53	1:1	0.401	28.1	
2310	462000	NR n30	M1	10	19.61	Rear	DFT-s-OFDM QPSK	0	10	1	1	1:1	0.26	25.5	21.8
2310	462000	NR n30	M1	10	19.61	Front	DFT-s-OFDM QPSK	0	10	1	1	1:1	0.148	27.9	
2310	462000	NR n30	M1	10	19.61	Left	DFT-s-OFDM QPSK	0	10	1	1	1:1	0.038	33.8	
2310	462000	NR n30	M1	10	19.61	Right	DFT-s-OFDM QPSK	0	10	1	1	1:1	0.01	39.6	
2310	462000	NR n30	M1	10	19.61	Bottom	DFT-s-OFDM QPSK	0	10	1	1	1:1	0.606	21.8	
2310	462000	NR n30	S2	10	19.19	Rear	DFT-s-OFDM QPSK	0	10	1	1	1:1	0.315	24.2	22.6
2310	462000	NR n30	S2	10	19.19	Front	DFT-s-OFDM QPSK	0	10	1	1	1:1	0.224	25.7	
2310	462000	NR n30	S2	10	19.19	Left	DFT-s-OFDM QPSK	0	10	1	1	1:1	0.097	29.3	
2310	462000	NR n30	S2	10	19.19	Top	DFT-s-OFDM QPSK	0	10	1	1	1:1	0.453	22.6	
2592.99	518598	NR n41	S2	100	19.33	Rear	DFT-s-OFDM QPSK	0	10	1	271	1:1	0.386	23.5	22.3
2592.99	518598	NR n41	S2	100	19.33	Front	DFT-s-OFDM QPSK	0	10	1	271	1:1	0.385	23.5	
2592.99	518598	NR n41	S2	100	19.33	Left	DFT-s-OFDM QPSK	0	10	1	271	1:1	0.043	33.0	
2592.99	518598	NR n41	S2	100	19.33	Top	DFT-s-OFDM QPSK	0	10	1	271	1:1	0.499	22.3	
2592.99	518598	NR n41	M2	100	21.07	Rear	DFT-s-OFDM QPSK	0	10	1	271	1:1	0.076	32.3	25.9
2592.99	518598	NR n41	M2	100	21.07	Front	DFT-s-OFDM QPSK	0	10	1	271	1:1	0.085	31.8	
2592.99	518598	NR n41	M2	100	21.07	Left	DFT-s-OFDM QPSK	0	10	1	271	1:1	0.127	30.0	
2592.99	518598	NR n41	M2	100	21.07	Bottom	DFT-s-OFDM QPSK	0	10	1	271	1:1	0.332	25.9	
2593	518598	NR n41 SRS2	M2	100	20.31	Rear	CW	0	10	-	-	1:1	0.229	26.7	26.7
2593	518598	NR n41 SRS2	M2	100	20.31	Front	CW	0	10	-	-	1:1	0.146	28.7	
2593	518598	NR n41 SRS2	M2	100	20.31	Left	CW	0	10	-	-	1:1	0.125	29.3	
2593	518598	NR n41 SRS2	M2	100	20.31	Bottom	CW	0	10	-	-	1:1	0.215	27.0	
2593	518598	NR n41 SRS2	S2	100	20.66	Rear	CW	0	10	-	-	1:1	0.032	35.6	31.6
2593	518598	NR n41 SRS2	S2	100	20.66	Front	CW	0	10	-	-	1:1	0.025	36.7	
2593	518598	NR n41 SRS2	S2	100	20.66	Left	CW	0	10	-	-	1:1	0.009	41.1	
2593	518598	NR n41 SRS2	S2	100	20.66	Top	CW	0	10	-	-	1:1	0.081	31.6	

MEASUREMENT RESULTS															
Frequency		Mode	Ant. No.	Band width	Frame Averaged Conducted Power	Test Position		MPR	Spacing (mm)	RB Size	RB offset	Duty Cycle	Meas. SAR(1g)	Plimit	Minimum Plimit
Mhz	Ch.			(MHz)	(dBm)			(dB)					(W/kg)	(dBm)	(dBm)
2593	518598	NR n41 SRS3	S1	100	19.26	Rear	CW	0	10	-	-	1:1	0.295	24.6	23.5
2593	518598	NR n41 SRS3	S1	100	19.26	Front	CW	0	10	-	-	1:1	0.377	23.5	
2593	518598	NR n41 SRS3	S1	100	19.26	Right	CW	0	10	-	-	1:1	0.017	37.0	
2593	518598	NR n41 SRS3	S1	100	19.26	Top	CW	0	10	-	-	1:1	0.287	24.7	
2593	518598	NR n41 SRS3	M4	100	19.19	Rear	CW	0	10	-	-	1:1	0.131	28.0	28.0
2593	518598	NR n41 SRS3	M4	100	19.19	Front	CW	0	10	-	-	1:1	0.038	33.4	
2593	518598	NR n41 SRS3	M4	100	19.19	Right	CW	0	10	-	-	1:1	0.008	40.2	
2593	518598	NR n41 SRS3	M4	100	19.19	Bottom	CW	0	10	-	-	1:1	0.051	32.1	
2593	518598	NR n41 SRS4	M4	100	19.24	Rear	CW	0	10	-	-	1:1	0.175	26.8	26.8
2593	518598	NR n41 SRS4	M4	100	19.24	Front	CW	0	10	-	-	1:1	0.105	29.0	
2593	518598	NR n41 SRS4	M4	100	19.24	Right	CW	0	10	-	-	1:1	0.1	29.2	
2593	518598	NR n41 SRS4	M4	100	19.24	Bottom	CW	0	10	-	-	1:1	0.062	31.3	
2593	518598	NR n41 SRS4	S1	100	18.23	Rear	CW	0	10	-	-	1:1	0.097	28.4	28.4
2593	518598	NR n41 SRS4	S1	100	18.23	Front	CW	0	10	-	-	1:1	0.085	28.9	
2593	518598	NR n41 SRS4	S1	100	18.23	Right	CW	0	10	-	-	1:1	0.088	28.8	
2593	518598	NR n41 SRS4	S1	100	18.23	Top	CW	0	10	-	-	1:1	0.094	28.5	
1745	349000	NR n66	M1	40	19.84	Rear	DFT-s-OFDM QPSK	0	10	1	214	1:1	0.645	21.7	21.5
1745	349000	NR n66	M1	40	19.84	Front	DFT-s-OFDM QPSK	0	10	1	214	1:1	0.413	23.7	
1745	349000	NR n66	M1	40	19.84	Left	DFT-s-OFDM QPSK	0	10	1	214	1:1	0.108	29.5	
1745	349000	NR n66	M1	40	19.84	Right	DFT-s-OFDM QPSK	0	10	1	214	1:1	0.048	33.0	
1745	349000	NR n66	M1	40	19.84	Bottom	DFT-s-OFDM QPSK	0	10	1	214	1:1	0.687	21.5	
1745	349000	NR n66	S2	40	20.43	Rear	DFT-s-OFDM QPSK	0	10	1	1	1:1	0.416	24.2	22.2
1745	349000	NR n66	S2	40	20.43	Front	DFT-s-OFDM QPSK	0	10	1	1	1:1	0.189	27.7	
1745	349000	NR n66	S2	40	20.43	Left	DFT-s-OFDM QPSK	0	10	1	1	1:1	0.109	30.1	
1745	349000	NR n66	S2	40	20.43	Top	DFT-s-OFDM QPSK	0	10	1	1	1:1	0.665	22.2	
1702.5	340500	NR n70	M1	15	20.06	Rear	DFT-s-OFDM QPSK	0	10	1	1	1:1	0.655	21.9	20.7
1702.5	340500	NR n70	M1	15	20.06	Front	DFT-s-OFDM QPSK	0	10	1	1	1:1	0.47	23.3	
1702.5	340500	NR n70	M1	15	20.06	Left	DFT-s-OFDM QPSK	0	10	1	1	1:1	0.09	30.5	
1702.5	340500	NR n70	M1	15	20.06	Right	DFT-s-OFDM QPSK	0	10	1	1	1:1	0.047	33.3	
1702.5	340500	NR n70	M1	15	20.06	Bottom	DFT-s-OFDM QPSK	0	10	1	1	1:1	0.861	20.7	
1702.5	340500	NR n70	S2	15	21.19	Rear	DFT-s-OFDM QPSK	0	10	1	40	1:1	0.573	23.6	22.8
1702.5	340500	NR n70	S2	15	21.19	Front	DFT-s-OFDM QPSK	0	10	1	40	1:1	0.428	24.9	
1702.5	340500	NR n70	S2	15	21.19	Left	DFT-s-OFDM QPSK	0	10	1	40	1:1	0.16	29.1	
1702.5	340500	NR n70	S2	15	21.19	Top	DFT-s-OFDM QPSK	0	10	1	40	1:1	0.698	22.8	

MEASUREMENT RESULTS

Frequency		Mode	Ant. No.	Band width	Frame Averaged Conducted Power	Test Position		MPR	Spacing (mm)	RB Size	RB offset	Duty Cycle	Meas. SAR(1g)	Plimit	Minimu Plimit
MHz	Ch.												(W/kg)	(dBm)	(dBm)
680.5	136100	NR n71	M1	20	24.38	Rear	DFT-s-OFDM QPSK	0	10	1	53	1:1	0.258	30.3	30.3
680.5	136100	NR n71	M1	20	24.38	Front	DFT-s-OFDM QPSK	0	10	1	53	1:1	0.163	32.3	
680.5	136100	NR n71	M1	20	24.38	Left	DFT-s-OFDM QPSK	0	10	1	53	1:1	0.112	33.9	
680.5	136100	NR n71	M1	20	24.38	Right	DFT-s-OFDM QPSK	0	10	1	53	1:1	0.086	35.0	
680.5	136100	NR n71	M1	20	24.38	Bottom	DFT-s-OFDM QPSK	0	10	1	53	1:1	0.061	36.5	
680.5	136100	NR n71	S1	20	24.12	Rear	DFT-s-OFDM QPSK	0	10	1	53	1:1	0.431	27.8	27.8
680.5	136100	NR n71	S1	20	24.12	Front	DFT-s-OFDM QPSK	0	10	1	53	1:1	0.323	29.0	
680.5	136100	NR n71	S1	20	24.12	Right	DFT-s-OFDM QPSK	0	10	1	53	1:1	0.244	30.2	
680.5	136100	NR n71	S1	20	24.12	Top	DFT-s-OFDM QPSK	0	10	1	53	1:1	0.363	28.5	
3750	650000	NR n77	S2	100	16.41	Rear	DFT-s-OFDM QPSK	0	10	1	1	1:1	0.693	18.0	18.0
3750	650000	NR n77	S2	100	16.79	Front	DFT-s-OFDM QPSK	0	10	1	1	1:1	0.166	24.6	
3750	650000	NR n77	S2	100	16.79	Left	DFT-s-OFDM QPSK	0	10	1	1	1:1	0.111	26.3	
3750	650000	NR n77	S2	100	16.79	Top	DFT-s-OFDM QPSK	0	10	1	1	1:1	0.379	21.0	
3930	662000	NR n77 SRS 2	M3	100	5.08	Rear	CW	0	10	-	-	1:1	0.011	28.8	26.2
3930	662000	NR n77 SRS 2	M3	100	5.08	Front	CW	0	10	-	-	1:1	0.004	33.2	
3930	662000	NR n77 SRS 2	M3	100	5.08	Left	CW	0	10	-	-	1:1	0.02	26.2	
3930	662000	NR n77 SRS 2	M3	100	5.08	Bottom	CW	0	10	-	-	1:1	0.006	31.4	
3930	662000	NR n77 SRS 3	S5	100	8.77	Rear	CW	0	10	-	-	1:1	0.02	30.9	30.9
3930	662000	NR n77 SRS 3	S5	100	8.77	Front	CW	0	10	-	-	1:1	0.017	31.6	
3930	662000	NR n77 SRS 3	S5	100	8.77	Left	CW	0	10	-	-	1:1	0.005	36.9	
3930	662000	NR n77 SRS 4	M4	100	4.47	Rear	CW	0	10	-	-	1:1	0.026	25.5	25.5
3930	662000	NR n77 SRS 4	M4	100	4.47	Front	CW	0	10	-	-	1:1	0	39.7	
3930	662000	NR n77 SRS 4	M4	100	4.47	Right	CW	0	10	-	-	1:1	0	39.7	
3930	662000	NR n77 SRS 4	M4	100	4.47	Bottom	CW	0	10	-	-	1:1	0	39.7	
3500.01	633334	NR n77 DoD	S2	100	16.55	Rear	DFT-s-OFDM QPSK	0	10	1	1	1:1	0.277	22.1	21.3
3500.01	633334	NR n77 SRS 2 DoD	M3	100	6.84	Left	CW	0	10	-	-	1:1	0.072	21.3	
3500.01	633334	NR n77 SRS 3 DoD	S5	100	10.2	Rear	CW	0	10	-	-	1:1	0.063	25.9	
3500.01	633334	NR n77 SRS 4 DoD	M4	100	5.47	Rear	CW	0	10	-	-	1:1	0.045	22.0	

Table A-12 DSI = 0 *PLimit* Calculations – WLAN Hotspot SAR

MEASUREMENT RESULTS													
Frequency		Mode/ Band	Band width	Ant. No.	Data Rate	Frame Averaged Conducted Power	Test Position	Ant. Config.	Duty Cycle	Meas. SAR(1g)	Scaling Factor	Plimit	Minimum Plimit
MHz	Ch.												
			(MHz)		(Mbps)	(dBm)				(W/kg)	(Duty)	(dBm)	(dBm)
2 462	11	802.11b	20	S4	1	19.03	Rear	WIFI1	1	0.365	1	23.4	20.9
2 462	11	802.11b	20	S4	1	19.03	Front	WIFI1	1	0.304	1	24.2	
2 462	11	802.11b	20	S4	1	19.03	Left	WIFI1	1	0.648	1	20.9	
2 462	11	802.11b	20	S4	1	19.03	Top	WIFI1	1	0.496	1	22.1	
2 412	1	802.11b	20	S6	1	18.54	Rear	WIFI2	1	0.273	1	24.2	24.2
2 412	1	802.11b	20	S6	1	18.54	Front	WIFI2	1	0.225	1	25.0	
2 412	1	802.11b	20	S6	1	18.54	Right	WIFI2	1	0.078	1	29.6	
2 412	1	802.11b	20	S6	1	18.54	Top	WIFI2	1	0.009	1	39.0	
2 412	1	802.11b	20	S4,6	1	18.54	Rear	WIFI1,2	1	0.525	1	21.3	21.1
2 412	1	802.11b	20	S4,6	1	18.54	Front	WIFI1,2	1	0.371	1	22.8	
2 412	1	802.11b	20	S4,6	1	18.54	Left	WIFI1,2	1	0.557	1	21.1	
2 412	1	802.11b	20	S4,6	1	18.54	Right	WIFI1,2	1	0.090	1	29.0	
2 412	1	802.11b	20	S4,6	1	18.54	Top	WIFI1,2	1	0.539	1	21.2	
5775	155	802.11ac	80	S4	MCS0	17.11	Rear	WIFI1	0.924	0.430	1.082	20.8	19.1
5775	155	802.11ac	80	S4	MCS0	17.11	Front	WIFI1	0.924	0.096	1.082	27.3	
5775	155	802.11ac	80	S4	MCS0	17.11	Left	WIFI1	0.924	0.628	1.082	19.1	
5775	155	802.11ac	80	S4	MCS0	17.11	Top	WIFI1	0.924	0.135	1.082	25.8	
5775	155	802.11ac	80	S1	MCS0	17.03	Rear	WIFI2	0.924	0.172	1.082	24.7	24.7
5775	155	802.11ac	80	S1	MCS0	17.03	Front	WIFI2	0.924	0.053	1.082	29.8	
5775	155	802.11ac	80	S1	MCS0	17.03	Right	WIFI2	0.924	0.046	1.082	30.4	
5775	155	802.11ac	80	S1	MCS0	17.03	Top	WIFI2	0.924	0.118	1.082	26.3	
5775	155	802.11ac	80	S1,4	MCS0	17.03	Rear	WIFI1,2	0.924	0.455	1.082	20.4	20.4
5775	155	802.11ac	80	S1,4	MCS0	17.03	Front	WIFI1,2	0.924	0.125	1.082	26.1	
5775	155	802.11ac	80	S1,4	MCS0	17.03	Left	WIFI1,2	0.924	0.461	1.082	20.4	
5775	155	802.11ac	80	S1,4	MCS0	17.03	Right	WIFI1,2	0.924	0.072	1.082	28.5	
5775	155	802.11ac	80	S1,4	MCS0	17.03	Top	WIFI1,2	0.924	0.121	1.082	26.2	

MEASUREMENT RESULTS													
Frequency		Mode/ Band	Band width	Ant. No.	Data Rate	Frame Averaged Conducted Power	Test Position	Ant. Config.	Duty Cycle	Meas. SAR(1g)	Scaling Factor	Plimit	Minimum Plimi
Mhz	Ch.									(W/kg)	(Duty)	(dBm)	(dBm)
6185	47	802.11ax	160	S4	MCS0	8.91	Rear	WIFI1	0.996	0.042	1.004	22.7	22.0
6185	47	802.11ax	160	S4	MCS0	8.91	Front	WIFI1	0.996	0.023	1.004	25.3	
6185	47	802.11ax	160	S4	MCS0	8.91	Left	WIFI1	0.996	0.049	1.004	22.0	
6185	47	802.11ax	160	S4	MCS0	8.91	Top	WIFI1	0.996	0.019	1.004	26.1	
6025	15	802.11ax	160	S1	MCS0	8.88	Rear	WIFI2	0.996	0.029	1.004	24.3	24.3
6025	15	802.11ax	160	S1	MCS0	8.88	Front	WIFI2	0.996	0.002	1.004	35.9	
6025	15	802.11ax	160	S1	MCS0	8.88	Right	WIFI2	0.996	0.006	1.004	31.1	
6025	15	802.11ax	160	S1	MCS0	8.88	Top	WIFI2	0.996	0.018	1.004	26.3	
6185	47	802.11ax	160	S1,4	MCS0	8.88	Rear	WIFI1,2	0.996	0.042	1.004	22.6	20.8
6185	47	802.11ax	160	S1,4	MCS0	8.88	Front	WIFI1,2	0.996	0.021	1.004	25.7	
6185	47	802.11ax	160	S1,4	MCS0	8.88	Left	WIFI1,2	0.996	0.064	1.004	20.8	
6185	47	802.11ax	160	S1,4	MCS0	8.88	Right	WIFI1,2	0.996	0.006	1.004	31.1	
6185	47	802.11ax	160	S1,4	MCS0	8.88	Top	WIFI1,2	0.996	0.018	1.004	26.3	

MEASUREMENT RESULTS

Frequency		Mode/ Band	Ant. No.	Frame Averaged	Test Position	Ant. Config.	Meas. SAR(1g)	Scaling Factor	Plimit	Minimum Plimit
MHz	Ch.			Conducted Power (dBm)			(W/kg)	(Duty)	(dBm)	(dBm)
2442	39	DH5	S4	18.26	Rear	Ant 1	0.226	1.01	24.7	24.7
2442	39	DH5	S4	18.26	Front	Ant 1	0.152	1.01	26.4	
2442	39	DH5	S4	18.26	Left	Ant 1	0.217	1.01	24.9	
2442	39	DH5	S4	18.26	Top	Ant 1	0.207	1.01	25.1	
2442	39	DH5	S6	18.52	Rear	Ant 2	0.148	1.01	26.8	26.8
2442	39	DH5	S6	18.52	Front	Ant 2	0.131	1.01	27.3	
2442	39	DH5	S6	18.52	Right	Ant 2	0.043	1.01	32.2	
2442	39	DH5	S6	18.52	Top	Ant 2	0.005	1.01	41.5	
2440	17	LE 1M	S4	16.47	Rear	Ant 1	0.216	1.00	23.1	22.1
2440	17	LE 1M	S4	16.47	Front	Ant 1	0.276	1.00	22.1	
2440	17	LE 1M	S4	16.47	Left	Ant 1	0.019	1.00	33.7	
2440	17	LE 1M	S4	16.47	Top	Ant 1	0.024	1.00	32.7	
2440	17	LE 1M	S6	16.63	Rear	Ant 2	0.083	1.00	27.4	27.4
2440	17	LE 1M	S6	16.63	Front	Ant 2	0.082	1.00	27.5	
2440	17	LE 1M	S6	16.63	Right	Ant 2	0.048	1.00	29.8	
2440	17	LE 1M	S6	16.63	Top	Ant 2	0.006	1.00	38.8	

Table A-13 DSI = 0 P_{Limit} Calculations – 2G/3G Phablet SAR

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

MEASUREMENT RESULTS											
Frequency		Mode/ Band		Ant. No.	Frame Averaged Conducted Power	Test Position	Spacing (mm)	Duty Cycle	Meas. SAR(10g)	Plimit	Minimum Plimit
					(dBm)				(W/kg)	(dBm)	(dBm)
836.6	190	GSM 850	GPRS2Tx	M1	24.72	Rear	0	1:4.15	0.982	28.8	28.8
836.6	190	GSM 850	GPRS2Tx	M1	24.72	Front	0	1:4.15	0.734	30.0	
836.6	190	GSM 850	GPRS2Tx	M1	24.72	Left	0	1:4.15	0.926	29.0	
836.6	190	GSM 850	GPRS2Tx	M1	24.72	Right	0	1:4.15	0.106	38.4	
836.6	190	GSM 850	GPRS2Tx	M1	24.72	Bottom	0	1:4.15	0.576	31.1	
848.8	251	GSM 850	GPRS2Tx	S1	24.72	Rear	0	1:4.15	0.832	29.5	29.4
848.8	251	GSM 850	GPRS2Tx	S1	24.72	Front	0	1:4.15	0.843	29.4	
848.8	251	GSM 850	GPRS2Tx	S1	24.72	Right	0	1:4.15	0.668	30.5	
848.8	251	GSM 850	GPRS2Tx	S1	24.72	Top	0	1:4.15	0.828	29.5	
1860	661	GSM 1900	GPRS2Tx	M1	19.10	Rear	0	1:4.15	0.623	25.1	25.1
1860	661	GSM 1900	GPRS2Tx	M1	19.10	Front	0	1:4.15	0.401	27.0	
1860	661	GSM 1900	GPRS2Tx	M1	19.10	Left	0	1:4.15	0.231	29.4	
1860	661	GSM 1900	GPRS2Tx	M1	19.10	Right	0	1:4.15	0.050	36.1	
1860	661	GSM 1900	GPRS2Tx	M1	19.10	Bottom	0	1:4.15	0.327	27.9	

MEASUREMENT RESULTS											
Frequency		Mode/ Band		Ant. No.	Frame Averaged Conducted Power	Test Position	Spacing (mm)	Duty Cycle	Meas. SAR(10g)	Plimit	Minimum Plimit
MHz	Ch.				(dBm)				(W/kg)	(dBm)	(dBm)
836.6	4183	UMTS Band 5	RMC	M1	23.6	Rear	0	1:1	1.010	27.5	27.5
836.6	4183	UMTS Band 5	RMC	M1	23.6	Front	0	1:1	0.735	28.9	
836.6	4183	UMTS Band 5	RMC	M1	23.6	Left	0	1:1	0.904	28.0	
836.6	4183	UMTS Band 5	RMC	M1	23.6	Right	0	1:1	0.024	43.8	
836.6	4183	UMTS Band 5	RMC	M1	23.6	Bottom	0	1:1	0.538	30.3	
836.6	4183	UMTS Band 5	RMC	S1	23.78	Rear	0	1:1	0.818	28.6	26.8
836.6	4183	UMTS Band 5	RMC	S1	23.78	Front	0	1:1	1.250	26.8	
836.6	4183	UMTS Band 5	RMC	S1	23.78	Right	0	1:1	0.945	28.0	
836.6	4183	UMTS Band 5	RMC	S1	23.78	Top	0	1:1	1.230	26.9	
1732.4	1412	UMTS Band 4	RMC	M1	18.97	Rear	0	1:1	1.230	22.1	22.1
1732.4	1412	UMTS Band 4	RMC	M1	18.97	Front	0	1:1	0.963	23.1	
1732.4	1412	UMTS Band 4	RMC	M1	18.97	Left	0	1:1	0.368	27.3	
1732.4	1412	UMTS Band 4	RMC	M1	18.97	Right	0	1:1	0.102	32.9	
1732.4	1412	UMTS Band 4	RMC	M1	18.97	Bottom	0	1:1	0.840	23.7	
1880	9400	UMTS Band 2	RMC	M1	19.72	Rear	0	1:1	1.450	22.1	22.1
1880	9400	UMTS Band 2	RMC	M1	19.72	Front	0	1:1	0.990	23.7	
1880	9400	UMTS Band 2	RMC	M1	19.72	Left	0	1:1	0.226	30.2	
1880	9400	UMTS Band 2	RMC	M1	19.72	Right	0	1:1	0.187	31.0	
1880	9400	UMTS Band 2	RMC	M1	19.72	Bottom	0	1:1	0.940	24.0	

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

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

MEASUREMENT RESULTS														
Frequency		Mode	Ant. No.	Band width	Frame Averaged Conducted Power	Test Position	Spacing (mm)	MPR	RB Size	RB offset	Duty Cycle	Meas. SAR (10g)	Plimit	Minimum Plimit
				(MHz)	(dBm)			(dB)				(W/kg)	(dBm)	(dBm)
1905	26590	LTE Band 25	M1	20	19.88	Rear	0	0	1	99	1:1	0.817	24.7	24.4
1905	26590	LTE Band 25	M1	20	19.88	Front	0	0	1	99	1:1	0.876	24.4	
1905	26590	LTE Band 25	M1	20	19.88	Left	0	0	1	99	1:1	0.349	28.4	
1905	26590	LTE Band 25	M1	20	19.88	Right	0	0	1	99	1:1	0.075	35.1	
1905	26590	LTE Band 25	M1	20	19.88	Bottom	0	0	1	99	1:1	0.598	26.1	
1882.5	26365	LTE Band 25	S2	20	19.33	Rear	0	0	1	49	1:1	1.6	21.3	20.8
1882.5	26365	LTE Band 25	S2	20	19.33	Front	0	0	1	49	1:1	1.78	20.8	
1882.5	26365	LTE Band 25	S2	20	19.33	Left	0	0	1	49	1:1	0.61	25.5	
1882.5	26365	LTE Band 25	S2	20	19.33	Top	0	0	1	49	1:1	1.79	20.8	
1720	132072	LTE Band 66	M1	20	19.79	Rear	0	0	1	0	1:1	1.030	23.6	
1720	132072	LTE Band 66	M1	20	19.79	Front	0	0	1	0	1:1	0.947	24.0	23.6
1720	132072	LTE Band 66	M1	20	19.79	Left	0	0	1	0	1:1	0.251	29.8	
1720	132072	LTE Band 66	M1	20	19.79	Right	0	0	1	0	1:1	0.048	37.0	
1720	132072	LTE Band 66	M1	20	19.79	Bottom	0	0	1	0	1:1	0.694	25.4	
1770	132572	LTE Band 66	S2	20	17.99	Rear	0	0	1	0	1:1	1.19	21.2	
1770	132572	LTE Band 66	S2	20	17.99	Front	0	0	1	0	1:1	1.36	20.6	19.3
1770	132572	LTE Band 66	S2	20	17.99	Left	0	0	1	0	1:1	0.466	25.3	
1770	132572	LTE Band 66	S2	20	17.99	Top	0	0	1	0	1:1	1.85	19.3	
2535	21100	LTE Band 7	M2	20	20.08	Rear	0	0	1	0	1:1	1.21	23.2	23.2
2535	21100	LTE Band 7	M2	20	20.08	Front	0	0	1	0	1:1	0.717	25.5	
2535	21100	LTE Band 7	M2	20	20.08	Left	0	0	1	0	1:1	0.812	25.0	
2535	21100	LTE Band 7	M2	20	20.08	Bottom	0	0	1	0	1:1	0.553	26.6	
707.5	23095	LTE Band 7	S2	20	19.19	Rear	0	0	1	49	1:1	0.53	25.9	23.8
707.5	23095	LTE Band 7	S2	20	19.19	Front	0	0	1	49	1:1	0.462	26.5	
707.5	23095	LTE Band 7	S2	20	19.19	Left	0	0	1	49	1:1	0.077	34.3	
707.5	23095	LTE Band 7	S2	20	19.19	Top	0	0	1	49	1:1	0.869	23.8	
707.5	23095	LTE Band 12	M1	10	24.83	Rear	0	0	1	49	1:1	0.627	30.8	30.8
707.5	23095	LTE Band 12	M1	10	24.83	Front	0	0	1	49	1:1	0.384	33.0	
707.5	23095	LTE Band 12	M1	10	24.83	Left	0	0	1	49	1:1	0.608	31.0	
707.5	23095	LTE Band 12	M1	10	24.83	Right	0	0	1	49	1:1	0.064	40.7	
707.5	23095	LTE Band 12	M1	10	24.83	Bottom	0	0	1	49	1:1	0.338	33.5	
707.5	23095	LTE Band 12	S1	10	24.02	Rear	0	0	1	0	1:1	0.933	28.3	26.8
707.5	23095	LTE Band 12	S1	10	24.02	Front	0	0	1	0	1:1	0.902	28.4	
707.5	23095	LTE Band 12	S1	10	24.02	Right	0	0	1	0	1:1	0.614	30.1	
707.5	23095	LTE Band 12	S1	10	24.02	Top	0	0	1	0	1:1	1.33	26.8	

MEASUREMENT RESULTS

Frequency		Mode	Ant. No.	Band width	Frame Averaged Conducted Power	Test Position	Spacing (mm)	MPR	RB Size	RB offset	Duty Cycle	Meas. SAR (10g)	Plimit	Minimum Plimit
MHz	Ch.													
				(MHz)	(dBm)			(dB)				(W/kg)	(dBm)	(dBm)
782	23230	LTE Band 13	M1	10	24.38	Rear	0	0	1	49	1:1	0.603	30.6	30.6
782	23230	LTE Band 13	M1	10	24.38	Front	0	0	1	49	1:1	0.381	32.6	
782	23230	LTE Band 13	M1	10	24.38	Left	0	0	1	49	1:1	0.595	30.6	
782	23230	LTE Band 13	M1	10	24.38	Right	0	0	1	49	1:1	0.019	45.6	
782	23230	LTE Band 13	M1	10	24.38	Bottom	0	0	1	49	1:1	0.268	34.1	
782	23230	LTE Band 13	S1	10	23.84	Rear	0	0	1	0	1:1	0.752	29.1	27.2
782	23230	LTE Band 13	S1	10	23.84	Front	0	0	1	0	1:1	1.13	27.3	
782	23230	LTE Band 13	S1	10	23.84	Right	0	0	1	0	1:1	0.642	29.7	
782	23230	LTE Band 13	S1	10	23.84	Top	0	0	1	0	1:1	1.15	27.2	
793	23330	LTE Band 14	M1	10	23.13	Rear	0	0	1	49	1:1	0.754	28.3	28.3
793	23330	LTE Band 14	M1	10	23.13	Front	0	0	1	49	1:1	0.543	29.8	
793	23330	LTE Band 14	M1	10	23.13	Left	0	0	1	49	1:1	0.658	28.9	
793	23330	LTE Band 14	M1	10	23.13	Right	0	0	1	49	1:1	0.028	42.6	
793	23330	LTE Band 14	M1	10	23.13	Bottom	0	0	1	49	1:1	0.359	31.6	
793	23330	LTE Band 14	S1	10	22.69	Rear	0	0	1	0	1:1	1.2	25.9	24.6
793	23330	LTE Band 14	S1	10	22.69	Front	0	0	1	0	1:1	1.21	25.8	
793	23330	LTE Band 14	S1	10	22.69	Right	0	0	1	0	1:1	0.877	27.2	
793	23330	LTE Band 14	S1	10	22.69	Top	0	0	1	0	1:1	1.62	24.6	
831.5	26865	LTE Band 26	M1	15	24.50	Rear	0	0	1	36	1:1	1.080	28.1	28.1
831.5	26865	LTE Band 26	M1	15	24.50	Front	0	0	1	36	1:1	0.757	29.7	
831.5	26865	LTE Band 26	M1	15	24.50	Left	0	0	1	36	1:1	1.040	28.3	
831.5	26865	LTE Band 26	M1	15	24.50	Right	0	0	1	36	1:1	0.073	39.8	
831.5	26865	LTE Band 26	M1	15	24.50	Bottom	0	0	1	36	1:1	0.609	30.6	
831.5	26865	LTE Band 26	S1	15	24.51	Rear	0	0	1	36	1:1	0.878	29.1	27.0
831.5	26865	LTE Band 26	S1	15	24.51	Front	0	0	1	36	1:1	1.410	27.0	
831.5	26865	LTE Band 26	S1	15	24.51	Right	0	0	1	36	1:1	0.886	29.0	
831.5	26865	LTE Band 26	S1	15	24.51	Top	0	0	1	36	1:1	1.380	27.1	
2310	27710	LTE Band 30	M1	10	20.07	Rear	0	0	1	0	1:1	1.850	21.4	20.7
2310	27710	LTE Band 30	M1	10	20.07	Front	0	0	1	0	1:1	2.180	20.7	
2310	27710	LTE Band 30	M1	10	20.07	Left	0	0	1	0	1:1	0.554	26.6	
2310	27710	LTE Band 30	M1	10	20.07	Right	0	0	1	0	1:1	0.226	30.5	
2310	27710	LTE Band 30	M1	10	20.07	Bottom	0	0	1	0	1:1	0.027	39.7	
2310	27710	LTE Band 30	S2	10	19.19	Rear	0	0	1	24	1:1	1.01	23.1	20.8
2310	27710	LTE Band 30	S2	10	19.19	Front	0	0	1	24	1:1	1.29	22.1	
2310	27710	LTE Band 30	S2	10	19.19	Left	0	0	1	24	1:1	0.269	28.9	
2310	27710	LTE Band 30	S2	10	19.19	Top	0	0	1	24	1:1	1.72	20.8	

MEASUREMENT RESULTS

Frequency		Mode	Ant. No.	Band width	Frame Averaged Conducted Power	Test Position	Spacing (mm)	MPR	RB Size	RB offset	Duty Cycle	Meas. SAR (10g)	Plimit	Minimum Plimit
MHz	Ch.													
				(MHz)	(dBm)			(dB)				(W/kg)	(dBm)	(dBm)
2680	41490	LTE Band 41 PC3	M2	20	20.50	Rear	0	0	1	49	1:1	1.48	22.8	22.8
2680	41490	LTE Band 41 PC3	M2	20	20.50	Front	0	0	1	49	1:1	0.912	24.9	
2680	41490	LTE Band 41 PC3	M2	20	20.50	Left	0	0	1	49	1:1	1.17	23.8	
2680	41490	LTE Band 41 PC3	M2	20	20.50	Bottom	0	0	1	49	1:1	0.792	25.5	
2506	39750	LTE Band 41 PC3	S2	20	18.31	Rear	0	0	1	49	1:1	0.537	25.0	22.2
2506	39750	LTE Band 41 PC3	S2	20	18.31	Front	0	0	1	49	1:1	0.527	25.1	
2506	39750	LTE Band 41 PC3	S2	20	18.31	Left	0	0	1	49	1:1	0.074	33.6	
2506	39750	LTE Band 41 PC3	S2	20	18.31	Top	0	0	1	49	1:1	1.02	22.2	
3560	55340	LTE Band 48	S2	20	19.10	Rear	0	0	1	99	1:1	1.06	22.8	20.3
3560	55340	LTE Band 48	S2	20	19.10	Front	0	0	1	99	1:1	0.669	24.8	
3560	55340	LTE Band 48	S2	20	19.10	Left	0	0	1	99	1:1	0.184	30.4	
3560	55340	LTE Band 48	S2	20	19.10	Top	0	0	1	99	1:1	1.880	20.3	
680.5	133297	LTE Band 71	M1	20	24.47	Rear	0	0	1	0	1:1	0.958	28.6	28.6
680.5	133297	LTE Band 71	M1	20	24.47	Front	0	0	1	0	1:1	0.660	30.3	
680.5	133297	LTE Band 71	M1	20	24.47	Left	0	0	1	0	1:1	0.963	28.6	
680.5	133297	LTE Band 71	M1	20	24.47	Right	0	0	1	0	1:1	0.049	41.5	
680.5	133297	LTE Band 71	M1	20	24.47	Bottom	0	0	1	0	1:1	0.450	31.9	
680.5	133297	LTE Band 71	S1	20	24.19	Rear	0	0	1	0	1:1	1.260	27.2	26.3
680.5	133297	LTE Band 71	S1	20	24.19	Front	0	0	1	0	1:1	1.250	27.2	
680.5	133297	LTE Band 71	S1	20	24.19	Right	0	0	1	0	1:1	0.908	28.6	
680.5	133297	LTE Band 71	S1	20	24.19	Top	0	0	1	0	1:1	1.540	26.3	

Table A-15 DSI = 0 *PLimit* Calculations – NR Phablet SAR

For some bands/modes, a lower *PLimit* was selected as a more conservative evaluation.

NR TDD Bands : In the case of the NR TDD bands, the *PLimit* were calculated as the Frame average power to which the duty factor was applied to the burst power.0

SAR measurements of all NR TDD bands were measured in FTM Mode.

MEASUREMENT RESULTS															
Frequency		Mode	Ant. No.	Band width	Frame Averaged Conducted Power	Test Position		MPR	Spacing (mm)	RB Size	RB offset	Duty Cycle	Meas. SAR(10g)	Plimit	Minimu Plimit
Mhz	Ch.			(MHz)	(dBm)			(dB)					(W/kg)	(dBm)	(dBm)
1882.5	376500	NR n25	M1	40	20.07	Rear	DFT-s-OFDM QPSK	0	0	1	214	1:1	0.978	24.1	24.1
1882.5	376500	NR n25	M1	40	20.07	Front	DFT-s-OFDM QPSK	0	0	1	214	1:1	0.703	25.6	
1882.5	376500	NR n25	M1	40	20.07	Left	DFT-s-OFDM QPSK	0	0	1	214	1:1	0.221	30.6	
1882.5	376500	NR n25	M1	40	20.07	Right	DFT-s-OFDM QPSK	0	0	1	214	1:1	0.059	36.3	
1882.5	376500	NR n25	M1	40	20.07	Bottom	DFT-s-OFDM QPSK	0	0	1	214	1:1	0.757	25.3	
1882.5	376500	NR n25	S2	40	18.30	Rear	DFT-s-OFDM QPSK	0	0	1	1	1:1	0.444	25.8	23.6
1882.5	376500	NR n25	S2	40	18.30	Front	DFT-s-OFDM QPSK	0	0	1	1	1:1	0.36	26.7	
1882.5	376500	NR n25	S2	40	18.30	Left	DFT-s-OFDM QPSK	0	0	1	1	1:1	0.064	34.2	
1882.5	376500	NR n25	S2	40	18.30	Top	DFT-s-OFDM QPSK	0	0	1	1	1:1	0.732	23.6	
2535	507000	NR n7	M2	40	20.16	Rear	DFT-s-OFDM QPSK	0	0	1	214	1:1	1.27	23.1	23.1
2535	507000	NR n7	M2	40	20.16	Front	DFT-s-OFDM QPSK	0	0	1	214	1:1	0.913	24.5	
2535	507000	NR n7	M2	40	20.16	Left	DFT-s-OFDM QPSK	0	0	1	214	1:1	0.67	25.9	
2535	507000	NR n7	M2	40	20.16	Bottom	DFT-s-OFDM QPSK	0	0	1	214	1:1	1.16	23.5	
2535	507000	NR n7	S2	40	17.87	Rear	DFT-s-OFDM QPSK	0	0	1	1	1:1	0.634	23.8	21.8
2535	507000	NR n7	S2	40	17.87	Front	DFT-s-OFDM QPSK	0	0	1	1	1:1	0.513	24.7	
2535	507000	NR n7	S2	40	17.87	Left	DFT-s-OFDM QPSK	0	0	1	1	1:1	0.093	32.2	
2535	507000	NR n7	S2	40	17.87	Top	DFT-s-OFDM QPSK	0	0	1	1	1:1	1.02	21.8	
707.5	141500	NR n12	M1	15	23.79	Rear	DFT-s-OFDM QPSK	0	0	1	77	1:1	0.621	29.8	29.8
707.5	141500	NR n12	M1	15	23.79	Front	DFT-s-OFDM QPSK	0	0	1	77	1:1	0.389	31.9	
707.5	141500	NR n12	M1	15	23.79	Left	DFT-s-OFDM QPSK	0	0	1	77	1:1	0.579	30.1	
707.5	141500	NR n12	M1	15	23.79	Right	DFT-s-OFDM QPSK	0	0	1	77	1:1	0.074	39.1	
707.5	141500	NR n12	M1	15	23.79	Bottom	DFT-s-OFDM QPSK	0	0	1	77	1:1	0.369	32.1	
707.5	141500	NR n12	S1	15	23.83	Rear	DFT-s-OFDM QPSK	0	0	1	1	1:1	1.110	27.4	26.8
707.5	141500	NR n12	S1	15	23.83	Front	DFT-s-OFDM QPSK	0	0	1	1	1:1	1.130	27.3	
707.5	141500	NR n12	S1	15	23.83	Right	DFT-s-OFDM QPSK	0	0	1	1	1:1	0.715	29.3	
707.5	141500	NR n12	S1	15	23.83	Top	DFT-s-OFDM QPSK	0	0	1	1	1:1	1.260	26.8	
793	158600	NR n14	M1	10	24.70	Rear	DFT-s-OFDM QPSK	0	0	1	1	1:1	0.765	29.8	29.8
793	158600	NR n14	M1	10	24.70	Front	DFT-s-OFDM QPSK	0	0	1	1	1:1	0.485	31.8	
793	158600	NR n14	M1	10	24.70	Left	DFT-s-OFDM QPSK	0	0	1	1	1:1	0.622	30.7	
793	158600	NR n14	M1	10	24.70	Right	DFT-s-OFDM QPSK	0	0	1	1	1:1	0.049	41.8	
793	158600	NR n14	M1	10	24.70	Bottom	DFT-s-OFDM QPSK	0	0	1	1	1:1	0.351	33.2	
793	158600	NR n14	S1	10	24.96	Rear	DFT-s-OFDM QPSK	0	0	1	1	1:1	0.996	29.0	27.0
793	158600	NR n14	S1	10	24.96	Front	DFT-s-OFDM QPSK	0	0	1	1	1:1	1.090	28.6	
793	158600	NR n14	S1	10	24.96	Right	DFT-s-OFDM QPSK	0	0	1	1	1:1	0.758	30.1	
793	158600	NR n14	S1	10	24.96	Top	DFT-s-OFDM QPSK	0	0	1	1	1:1	1.550	27.0	

MEASUREMENT RESULTS															
Frequency		Mode	Ant. No.	Band width	Frame Averaged Conducted Power	Test Position		MPR	Spacing (mm)	RB Size	RB offset	Duty Cycle	Meas. SAR(10g)	Plimit	Minimu Plimit
Mhz	Ch.			MHz	(dBm)			(dB)					(W/kg)	(dBm)	(dBm)
831.5	166300	NR n26	M1	20	24.15	Rear	DFT-s-OFDM QPSK	0	0	1	1	1:1	1.060	27.9	27.3
831.5	166300	NR n26	M1	20	24.15	Front	DFT-s-OFDM QPSK	0	0	1	1	1:1	0.632	30.1	
831.5	166300	NR n26	M1	20	24.15	Left	DFT-s-OFDM QPSK	0	0	1	1	1:1	1.200	27.3	
831.5	166300	NR n26	M1	20	24.15	Right	DFT-s-OFDM QPSK	0	0	1	1	1:1	0.054	40.8	
831.5	166300	NR n26	M1	20	24.15	Bottom	DFT-s-OFDM QPSK	0	0	1	1	1:1	0.597	30.4	
831.5	166300	NR n26	S1	20	24.10	Rear	DFT-s-OFDM QPSK	0	0	1	53	1:1	1.350	26.8	24.5
831.5	166300	NR n26	S1	20	24.10	Front	DFT-s-OFDM QPSK	0	0	1	53	1:1	1.930	25.2	
831.5	166300	NR n26	S1	20	24.10	Right	DFT-s-OFDM QPSK	0	0	1	53	1:1	1.660	25.9	
831.5	166300	NR n26	S1	20	24.10	Top	DFT-s-OFDM QPSK	0	0	1	53	1:1	2.280	24.5	
2310	462000	NR n30	M1	10	19.61	Rear	DFT-s-OFDM QPSK	0	0	1	1	1:1	0.865	24.2	24.0
2310	462000	NR n30	M1	10	19.61	Front	DFT-s-OFDM QPSK	0	0	1	1	1:1	0.917	24.0	
2310	462000	NR n30	M1	10	19.61	Left	DFT-s-OFDM QPSK	0	0	1	1	1:1	0.256	29.5	
2310	462000	NR n30	M1	10	19.61	Right	DFT-s-OFDM QPSK	0	0	1	1	1:1	0.032	38.5	
2310	462000	NR n30	M1	10	19.61	Bottom	DFT-s-OFDM QPSK	0	0	1	1	1:1	0.793	24.6	
2310	462000	NR n30	S2	10	19.19	Rear	DFT-s-OFDM QPSK	0	0	1	1	1:1	0.92	23.5	20.9
2310	462000	NR n30	S2	10	19.19	Front	DFT-s-OFDM QPSK	0	0	1	1	1:1	0.999	23.2	
2310	462000	NR n30	S2	10	19.19	Left	DFT-s-OFDM QPSK	0	0	1	1	1:1	0.353	27.7	
2310	462000	NR n30	S2	10	19.19	Top	DFT-s-OFDM QPSK	0	0	1	1	1:1	1.67	20.9	
2592.99	518598	NR n41	S2	100	19.33	Rear	DFT-s-OFDM QPSK	0	0	1	271	1:1	0.483	26.5	22.3
2592.99	518598	NR n41	S2	100	19.33	Front	DFT-s-OFDM QPSK	0	0	1	271	1:1	0.614	25.4	
2592.99	518598	NR n41	S2	100	19.33	Left	DFT-s-OFDM QPSK	0	0	1	271	1:1	0.103	33.2	
2592.99	518598	NR n41	S2	100	19.33	Top	DFT-s-OFDM QPSK	0	0	1	271	1:1	1.25	22.3	
2592.99	518598	NR n41	M2	100	21.07	Rear	DFT-s-OFDM QPSK	0	0	1	271	1:1	1.44	23.5	23.5
2592.99	518598	NR n41	M2	100	21.07	Front	DFT-s-OFDM QPSK	0	0	1	271	1:1	0.916	25.4	
2592.99	518598	NR n41	M2	100	21.07	Left	DFT-s-OFDM QPSK	0	0	1	271	1:1	0.609	27.2	
2592.99	518598	NR n41	M2	100	21.07	Bottom	DFT-s-OFDM QPSK	0	0	1	271	1:1	0.907	25.5	
2593	518598	NR n41 SRS2	M2	100	20.31	Rear	CW	0	0	-	-	1:1	1.740	21.9	21.9
2593	518598	NR n41 SRS2	M2	100	20.31	Front	CW	0	0	-	-	1:1	1.560	22.4	
2593	518598	NR n41 SRS2	M2	100	20.31	Left	CW	0	0	-	-	1:1	1.75	21.9	
2593	518598	NR n41 SRS2	M2	100	20.31	Bottom	CW	0	0	-	-	1:1	1.690	22.0	
2593	518598	NR n41 SRS2	S2	100	20.66	Rear	CW	0	0	-	-	1:1	0.173	32.3	28.0
2593	518598	NR n41 SRS2	S2	100	20.66	Front	CW	0	0	-	-	1:1	0.244	30.8	
2593	518598	NR n41 SRS2	S2	100	20.66	Left	CW	0	0	-	-	1:1	0.037	39.0	
2593	518598	NR n41 SRS2	S2	100	20.66	Top	CW	0	0	-	-	1:1	0.464	28.0	

MEASUREMENT RESULTS															
Frequency		Mode	Ant. No.	Band width	Frame Averaged Conducted Power	Test Position		MPR	Spacing (mm)	RB Size	RB offset	Duty Cycle	Meas. SAR(10g)	Plimit	Minimu Plimit
Mhz	Ch.			Mhz	(dBm)			(dB)					(W/kg)	(dBm)	(dBm)
2593	518598	NR n41 SRS3	S1	100	19.26	Rear	CW	0	0	-	-	1:1	1.310	22.1	21.1
2593	518598	NR n41 SRS3	S1	100	19.26	Front	CW	0	0	-	-	1:1	1.650	21.1	
2593	518598	NR n41 SRS3	S1	100	19.26	Right	CW	0	0	-	-	1:1	1.590	21.2	
2593	518598	NR n41 SRS3	S1	100	19.26	Top	CW	0	0	-	-	1:1	0.947	23.5	
2593	518598	NR n41 SRS3	M4	100	19.19	Rear	CW	0	0	-	-	1:1	0.655	25.0	25.0
2593	518598	NR n41 SRS3	M4	100	19.19	Front	CW	0	0	-	-	1:1	0.456	26.6	
2593	518598	NR n41 SRS3	M4	100	19.19	Right	CW	0	0	-	-	1:1	0.046	36.5	
2593	518598	NR n41 SRS3	M4	100	19.19	Bottom	CW	0	0	-	-	1:1	0.223	29.7	
2593	518598	NR n41 SRS4	M4	100	19.24	Rear	CW	0	0	-	-	1:1	0.914	23.6	23.6
2593	518598	NR n41 SRS4	M4	100	19.24	Front	CW	0	0	-	-	1:1	0.631	25.2	
2593	518598	NR n41 SRS4	M4	100	19.24	Right	CW	0	0	-	-	1:1	0.082	34.1	
2593	518598	NR n41 SRS4	M4	100	19.24	Bottom	CW	0	0	-	-	1:1	0.464	26.6	
2593	518598	NR n41 SRS4	S1	100	18.23	Rear	CW	0	0	-	-	1:1	0.446	25.7	24.0
2593	518598	NR n41 SRS4	S1	100	18.23	Front	CW	0	0	-	-	1:1	0.624	24.3	
2593	518598	NR n41 SRS4	S1	100	18.23	Right	CW	0	0	-	-	1:1	0.658	24.0	
2593	518598	NR n41 SRS4	S1	100	18.23	Top	CW	0	0	-	-	1:1	0.392	26.3	
1745	349000	NR n66	M1	40	19.84	Rear	DFT-s-OFDM QPSK	0	0	1	214	1:1	0.987	23.9	23.9
1745	349000	NR n66	M1	40	19.84	Front	DFT-s-OFDM QPSK	0	0	1	214	1:1	0.884	24.4	
1745	349000	NR n66	M1	40	19.84	Left	DFT-s-OFDM QPSK	0	0	1	214	1:1	0.267	29.6	
1745	349000	NR n66	M1	40	19.84	Right	DFT-s-OFDM QPSK	0	0	1	214	1:1	0.059	36.1	
1745	349000	NR n66	M1	40	19.84	Bottom	DFT-s-OFDM QPSK	0	0	1	214	1:1	0.617	25.9	21.9
1745	349000	NR n66	S2	40	20.43	Rear	DFT-s-OFDM QPSK	0	0	1	1	1:1	1.000	24.4	
1745	349000	NR n66	S2	40	20.43	Front	DFT-s-OFDM QPSK	0	0	1	1	1:1	1.470	22.7	
1745	349000	NR n66	S2	40	20.43	Left	DFT-s-OFDM QPSK	0	0	1	1	1:1	0.488	27.5	
1745	349000	NR n66	S2	40	20.43	Top	DFT-s-OFDM QPSK	0	0	1	1	1:1	1.790	21.9	23.3
1702.5	340500	NR n70	M1	15	20.06	Rear	DFT-s-OFDM QPSK	0	0	1	1	1:1	1.190	23.3	
1702.5	340500	NR n70	M1	15	20.06	Front	DFT-s-OFDM QPSK	0	0	1	1	1:1	1.060	23.8	
1702.5	340500	NR n70	M1	15	20.06	Left	DFT-s-OFDM QPSK	0	0	1	1	1:1	0.302	29.2	
1702.5	340500	NR n70	M1	15	20.06	Right	DFT-s-OFDM QPSK	0	0	1	1	1:1	0.055	36.6	
1702.5	340500	NR n70	M1	15	20.06	Bottom	DFT-s-OFDM QPSK	0	0	1	1	1:1	0.758	25.2	21.3
1702.5	340500	NR n70	S2	15	21.19	Rear	DFT-s-OFDM QPSK	0	0	1	40	1:1	0.876	25.7	
1702.5	340500	NR n70	S2	15	21.19	Front	DFT-s-OFDM QPSK	0	0	1	40	1:1	1.09	24.8	
1702.5	340500	NR n70	S2	15	21.19	Left	DFT-s-OFDM QPSK	0	0	1	40	1:1	0.364	29.6	
1702.5	340500	NR n70	S2	15	21.19	Top	DFT-s-OFDM QPSK	0	0	1	40	1:1	2.44	21.3	

MEASUREMENT RESULTS															
Frequency		Mode	Ant. No.	Band width	Frame Averaged Conducted Power	Test Position		MPR	Spacing (mm)	RB Size	RB offset	Duty Cycle	Meas. SAR(10g)	Plimit	Minimu Plimit
MHz	Ch.												(W/kg)	(dBm)	(dBm)
680.5	136100	NR n71	M1	20	24.38	Rear	DFT-s-OFDM QPSK	0	0	1	53	1:1	0.982	28.4	28.4
680.5	136100	NR n71	M1	20	24.38	Front	DFT-s-OFDM QPSK	0	0	1	53	1:1	0.625	30.4	
680.5	136100	NR n71	M1	20	24.38	Left	DFT-s-OFDM QPSK	0	0	1	53	1:1	0.967	28.5	
680.5	136100	NR n71	M1	20	24.38	Right	DFT-s-OFDM QPSK	0	0	1	53	1:1	0.111	37.9	
680.5	136100	NR n71	M1	20	24.38	Bottom	DFT-s-OFDM QPSK	0	0	1	53	1:1	0.588	30.7	
680.5	136100	NR n71	S1	20	24.12	Rear	DFT-s-OFDM QPSK	0	0	1	53	1:1	1.15	27.5	27.2
680.5	136100	NR n71	S1	20	24.12	Front	DFT-s-OFDM QPSK	0	0	1	53	1:1	1.24	27.2	
680.5	136100	NR n71	S1	20	24.12	Right	DFT-s-OFDM QPSK	0	0	1	53	1:1	0.728	29.5	
680.5	136100	NR n71	S1	20	24.12	Top	DFT-s-OFDM QPSK	0	0	1	53	1:1	1.2	27.3	
3930	662000	NR n77	S2	100	16.41	Rear	DFT-s-OFDM QPSK	0	0	1	1	1:1	1.15	19.8	19.8
3750	650000	NR n77	S2	100	16.79	Front	DFT-s-OFDM QPSK	0	0	1	1	1:1	0.7	22.3	
3750	650000	NR n77	S2	100	16.79	Left	DFT-s-OFDM QPSK	0	0	1	1	1:1	0.221	27.3	
3750	650000	NR n77	S2	100	16.79	Top	DFT-s-OFDM QPSK	0	0	1	1	1:1	1.09	20.4	
3930	662000	NR n77 SRS 2	M3	100	9.23	Rear	CW	0	0	-	-	1:1	0.327	18.1	18.1
3930	662000	NR n77 SRS 2	M3	100	9.23	Front	CW	0	0	-	-	1:1	0.235	19.5	
3930	662000	NR n77 SRS 2	M3	100	9.23	Left	CW	0	0	-	-	1:1	0.252	19.2	
3930	662000	NR n77 SRS 2	M3	100	9.23	Bottom	CW	0	0	-	-	1:1	0.086	23.9	
3930	662000	NR n77 SRS 3	S5	100	13.87	Rear	CW	0	0	-	-	1:1	0.302	23.0	18.8
3930	662000	NR n77 SRS 3	S5	100	13.87	Front	CW	0	0	-	-	1:1	0.799	18.8	
3930	662000	NR n77 SRS 3	S5	100	13.87	Left	CW	0	0	-	-	1:1	0.151	26.1	
3930	662000	NR n77 SRS 4	M4	100	9.67	Rear	CW	0	0	-	-	1:1	0.126	22.6	22.6
3930	662000	NR n77 SRS 4	M4	100	9.67	Front	CW	0	0	-	-	1:1	0.013	32.5	
3930	662000	NR n77 SRS 4	M4	100	9.67	Right	CW	0	0	-	-	1:1	0.010	33.6	
3930	662000	NR n77 SRS 4	M4	100	9.67	Bottom	CW	0	0	-	-	1:1	0.021	30.4	
3500.01	633334	NR n77 DoD	S2	100	16.55	Rear	DFT-s-OFDM QPSK	0	0	1	1	1:1	0.87	21.1	21.1
3500.01	633334	NR n77 SRS 2 DoD	M3	100	9.92	Left	CW	0	0	-	-	1:1	0.431	17.6	17.6
3500.01	633334	NR n77 SRS 3 DoD	S5	100	13.87	Rear	CW	0	0	-	-	1:1	0.571	20.3	20.3
3500.01	633334	NR n77 SRS 4 DoD	M4	100	8.54	Rear	CW	0	0	-	-	1:1	0.414	16.3	16.3

Table A-16 DSI = 0 P_{Limit} Calculations – WLAN Phablet SAR

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

MEASUREMENT RESULTS													
Frequency		Mode/ Band	Band width	Ant. No.	Data Rate	Frame Averaged Conducted Power	Test Position	Ant. Config.	Duty Cycle	Meas. SAR(10g)	Scaling Factor	Plimit	Minimum Plimit
Mhz	Ch.									(W/kg)	(Duty)	(dBm)	(dBm)
2 462	11	802.11b	20	S4	1	19.03	Rear	WIFI1	1	1.63	1	20.9	20.9
2 462	11	802.11b	20	S4	1	19.03	Front	WIFI1	1	1.47	1	21.3	
2 462	11	802.11b	20	S4	1	19.03	Left	WIFI1	1	1.59	1	21.0	
2 462	11	802.11b	20	S4	1	19.03	Top	WIFI1	1	1.19	1	22.3	
2 412	1	802.11b	20	S6	1	18.54	Rear	WIFI2	1	0.786	1	23.6	21.3
2 412	1	802.11b	20	S6	1	18.54	Front	WIFI2	1	1.330	1	21.3	
2 412	1	802.11b	20	S6	1	18.54	Right	WIFI2	1	0.470	1	25.8	
2 412	1	802.11b	20	S6	1	18.54	Top	WIFI2	1	0.006	1	44.7	
2 412	1	802.11b	20	S4,6	1	18.54	Rear	WIFI1,2	1	1.470	1	20.8	20.0
2 412	1	802.11b	20	S4,6	1	18.54	Front	WIFI1,2	1	1.550	1	20.6	
2 412	1	802.11b	20	S4,6	1	18.54	Left	WIFI1,2	1	1.790	1	20.0	
2 412	1	802.11b	20	S4,6	1	18.54	Right	WIFI1,2	1	0.459	1	25.9	
2 412	1	802.11b	20	S4,6	1	18.54	Top	WIFI1,2	1	0.719	1	24.0	
5270	54	802.11n	40	S4	MCS0	17.97	Rear	WIFI1	0.924	0.765	1.087	23.1	19.2
5270	54	802.11n	40	S4	MCS0	17.97	Front	WIFI1	0.924	0.507	1.087	24.9	
5270	54	802.11n	40	S4	MCS0	17.97	Left	WIFI1	0.924	1.87	1.087	19.2	
5270	54	802.11n	40	S4	MCS0	17.97	Top	WIFI1	0.924	0.363	1.087	26.4	
5270	54	802.11n	40	S1	MCS0	17.56	Rear	WIFI2	0.924	0.671	1.087	23.3	23.3
5270	54	802.11n	40	S1	MCS0	17.56	Front	WIFI2	0.924	0.447	1.087	25.0	
5270	54	802.11n	40	S1	MCS0	17.56	Right	WIFI2	0.924	0.039	1.087	35.6	
5270	54	802.11n	40	S1	MCS0	17.56	Top	WIFI2	0.924	0.189	1.087	28.8	
5270	54	802.11n	40	S1,4	MCS0	17.56	Rear	WIFI1,2	0.924	0.715	1.087	23.0	19.0
5270	54	802.11n	40	S1,4	MCS0	17.56	Front	WIFI1,2	0.924	0.507	1.087	24.5	
5270	54	802.11n	40	S1,4	MCS0	17.56	Left	WIFI1,2	0.924	1.81	1.087	19.0	
5270	54	802.11n	40	S1,4	MCS0	17.56	Right	WIFI1,2	0.924	0.052	1.087	34.4	
5270	54	802.11n	40	S1,4	MCS0	17.56	Top	WIFI1,2	0.924	0.352	1.087	26.1	

MEASUREMENT RESULTS													
Frequency		Mode/ Band	Band width	Ant. No.	Data Rate	Frame Averaged Conducted Power	Test Position	Ant. Config.	Duty Cycle	Meas.	Scaling	Plimit	Minimum Plimit
MHz	Ch.									SAR(10g)	Factor	(dBm)	(dBm)
			(MHz)		(Mbps)	(dBm)				(W/kg)	(Duty)		
5690	138	802.11ac	80	S4	MCS0	19.03	Rear	WIFI1	1	1.63	1	20.9	20.9
5690	138	802.11ac	80	S4	MCS0	19.03	Front	WIFI1	1	1.47	1	21.3	
5690	138	802.11ac	80	S4	MCS0	19.03	Left	WIFI1	1	1.59	1	21.0	
5690	138	802.11ac	80	S4	MCS0	19.03	Top	WIFI1	1	1.19	1	22.3	
5690	138	802.11ac	80	S1	MCS0	18.54	Rear	WIFI2	1	0.786	1	23.6	21.3
5690	138	802.11ac	80	S1	MCS0	18.54	Front	WIFI2	1	1.330	1	21.3	
5690	138	802.11ac	80	S1	MCS0	18.54	Right	WIFI2	1	0.470	1	25.8	
5690	138	802.11ac	80	S1	MCS0	18.54	Top	WIFI2	1	0.006	1	44.7	
5690	138	802.11ac	80	S1,4	MCS0	18.54	Rear	WIFI1,2	1	1.470	1	20.8	20.0
5690	138	802.11ac	80	S1,4	MCS0	18.54	Front	WIFI1,2	1	1.550	1	20.6	
5690	138	802.11ac	80	S1,4	MCS0	18.54	Left	WIFI1,2	1	1.790	1	20.0	
5690	138	802.11ac	80	S1,4	MCS0	18.54	Right	WIFI1,2	1	0.459	1	25.9	
5690	138	802.11ac	80	S1,4	MCS0	18.54	Top	WIFI1,2	1	0.719	1	24.0	
5775	155	802.11ac	80	S4	MCS0	17.11	Rear	WIFI1	0.924	1.34	1.082	19.8	18.1
5775	155	802.11ac	80	S4	MCS0	17.11	Front	WIFI1	0.924	0.997	1.082	21.1	
5775	155	802.11ac	80	S4	MCS0	17.11	Left	WIFI1	0.924	1.99	1.082	18.1	
5775	155	802.11ac	80	S4	MCS0	17.11	Top	WIFI1	0.924	0.417	1.082	24.9	
5775	155	802.11ac	80	S1	MCS0	17.03	Rear	WIFI2	0.924	0.726	1.082	22.4	22.4
5775	155	802.11ac	80	S1	MCS0	17.03	Front	WIFI2	0.924	0.26	1.082	26.9	
5775	155	802.11ac	80	S1	MCS0	17.03	Right	WIFI2	0.924	0.198	1.082	28.0	
5775	155	802.11ac	80	S1	MCS0	17.03	Top	WIFI2	0.924	0.287	1.082	26.4	
5775	155	802.11ac	80	S1,4	MCS0	17.03	Rear	WIFI1,2	0.924	1.69	1.082	18.7	18.5
5775	155	802.11ac	80	S1,4	MCS0	17.03	Front	WIFI1,2	0.924	1.03	1.082	20.9	
5775	155	802.11ac	80	S1,4	MCS0	17.03	Left	WIFI1,2	0.924	1.78	1.082	18.5	
5775	155	802.11ac	80	S1,4	MCS0	17.03	Right	WIFI1,2	0.924	0.236	1.082	27.3	
5775	155	802.11ac	80	S1,4	MCS0	17.03	Top	WIFI1,2	0.924	0.389	1.082	25.1	

MEASUREMENT RESULTS													
Frequency		Mode/ Band	Band width	Ant. No.	Data Rate	Frame Averaged Conducted Power	Test Position	Ant. Config.	Duty Cycle	Meas. SAR(10g)	Scaling Factor	Plimit	Minimum Plimit
Mhz	Ch.		(Mhz)		(Mbps)	(dBm)				(W/kg)	(Duty)	(dBm)	(dBm)
5855	171	802.11ac	80	S4	MCS0	17.17	Rear	WIFI1	0.924	0.697	1.082	22.7	18.3
5855	171	802.11ac	80	S4	MCS0	17.17	Front	WIFI1	0.924	0.522	1.082	24.0	
5855	171	802.11ac	80	S4	MCS0	17.17	Left	WIFI1	0.924	1.93	1.082	18.3	
5855	171	802.11ac	80	S4	MCS0	17.17	Top	WIFI1	0.924	0.264	1.082	26.9	
5855	171	802.11ac	80	S1	MCS0	16.82	Rear	WIFI2	0.924	0.713	1.082	22.3	22.3
5855	171	802.11ac	80	S1	MCS0	16.82	Front	WIFI2	0.924	0.19	1.082	28.0	
5855	171	802.11ac	80	S1	MCS0	16.82	Right	WIFI2	0.924	0.22	1.082	27.4	
5855	171	802.11ac	80	S1	MCS0	16.82	Top	WIFI2	0.924	0.194	1.082	27.9	
5855	171	802.11ac	80	S1,4	MCS0	16.82	Rear	WIFI1,2	0.924	0.614	1.082	22.9	18.3
5855	171	802.11ac	80	S1,4	MCS0	16.82	Front	WIFI1,2	0.924	0.506	1.082	23.8	
5855	171	802.11ac	80	S1,4	MCS0	16.82	Left	WIFI1,2	0.924	1.79	1.082	18.3	
5855	171	802.11ac	80	S1,4	MCS0	16.82	Right	WIFI1,2	0.924	0.185	1.082	28.1	
5855	171	802.11ac	80	S1,4	MCS0	16.82	Top	WIFI1,2	0.924	0.199	1.082	27.8	
6985	207	802.11ax	160	S4	MCS0	8.97	Rear	WIFI1	0.996	0.084	1.004	23.7	19.1
6985	207	802.11ac	80	S4	MCS0	8.97	Front	WIFI1	0.996	0.112	1.004	22.5	
6985	207	802.11ac	80	S4	MCS0	8.97	Left	WIFI1	0.996	0.242	1.004	19.1	
6985	207	802.11ac	80	S4	MCS0	8.97	Top	WIFI1	0.996	0.024	1.004	29.1	
6985	207	802.11ac	80	S1	MCS0	8.96	Rear	WIFI2	0.996	0.085	1.004	23.6	23.6
6985	207	802.11ac	80	S1	MCS0	8.96	Front	WIFI2	0.996	0.011	1.004	32.5	
6985	207	802.11ac	80	S1	MCS0	8.96	Right	WIFI2	0.996	0.004	1.004	36.9	
6985	207	802.11ac	80	S1	MCS0	8.96	Top	WIFI2	0.996	0.006	1.004	35.2	
6985	207	802.11ac	80	S1,4	MCS0	8.96	Rear	WIFI1,2	0.996	0.043	1.004	26.6	22.2
6985	207	802.11ac	80	S1,4	MCS0	8.96	Front	WIFI1,2	0.996	0.070	1.004	24.5	
6985	207	802.11ac	80	S1,4	MCS0	8.96	Left	WIFI1,2	0.996	0.119	1.004	22.2	
6985	207	802.11ac	80	S1,4	MCS0	8.96	Right	WIFI1,2	0.996	0.009	1.004	33.4	
6985	207	802.11ac	80	S1,4	MCS0	8.96	Top	WIFI1,2	0.996	0.032	1.004	27.9	

MEASUREMENT RESULTS

Frequency		Mode/ Band	Ant. No.	Frame Averaged	Test Position	Ant. Config.	Meas.	Scaling	Plimit	Minimum Plimit
MHz	Ch.			Conducted Power			SAR(10g)	Factor		
				(dBm)			(W/kg)	(Duty)	(dBm)	(dBm)
2442	39	DH5	S4	18.26	Rear	Ant 1	0.720	1.01	23.7	23.5
2442	39	DH5	S4	18.26	Front	Ant 1	0.562	1.01	24.7	
2442	39	DH5	S4	18.26	Left	Ant 1	0.747	1.01	23.5	
2442	39	DH5	S4	18.26	Top	Ant 1	0.531	1.01	25.0	
2442	39	DH5	S6	18.52	Rear	Ant 2	0.380	1.01	26.7	23.6
2442	39	DH5	S6	18.52	Front	Ant 2	0.781	1.01	23.6	
2442	39	DH5	S6	18.52	Right	Ant 2	0.214	1.01	29.2	
2442	39	DH5	S6	18.52	Top	Ant 2	0.001	1.01	52.5	
2440	17	LE 1M	S4	16.47	Rear	Ant 1	0.839	1.00	21.2	21.2
2440	17	LE 1M	S4	16.47	Front	Ant 1	0.672	1.00	22.2	
2440	17	LE 1M	S4	16.47	Left	Ant 1	0.790	1.00	21.5	
2440	17	LE 1M	S4	16.47	Top	Ant 1	0.504	1.00	23.4	
2440	17	LE 1M	S6	16.63	Rear	Ant 2	0.403	1.00	24.6	21.1
2440	17	LE 1M	S6	16.63	Front	Ant 2	0.884	1.00	21.1	
2440	17	LE 1M	S6	16.63	Right	Ant 2	0.257	1.00	26.5	
2440	17	LE 1M	S6	16.63	Top	Ant 2	0.007	1.00	42.2	