Testing and Certification

TEST REPORT

PART 0 SAR CHAR Test for certification of SM-F741B

APPLICANT

Samsung Electronics. Co., Ltd.

REPORT NO.

HCT-SR-2405-FC002

DATE OF ISSUE

May. 03, 2024

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PART 0 SAR Test for certification

REPORT NO.
HCT-SR-2405-FC002

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FCC ID
A3LSMF741B

Applicant	**SAMSUNG Electronics Co., Ltd** **129, Samsung-ro, Yeongtong-gu, Suwon-Si, Gyeonggi-do, 16677, Korea**
Product Name	Mobile Phone
Model Name	SM-F741B
Date of Test	Mar. 11, 2024 ~ May. 03, 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

REVISION HISTORY

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

Revision No.	Date of Issue	Description
0	May. 03, 2024	Initial Release

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).

CONTENTS

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
Fax.	031-645-6401

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-F741B
Additional Model Name	SM-F741B
Equipment Type	Mobile Phone
FCC ID	A3LSMF741B
Application Type	Certification
Applicant	SAMSUNG Electronics Co., Ltd.

2. DEVICE UNDER TEST DESCRIPTION

2.1 DUT specification

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

Device Wireless specification overview		
Band & Mode	Operating Mode	Tx Frequency
GSM850	Voice / Data	824.2 ㎒ ~ 848.8 ㎒
GSM1900	Voice / Data	1 850.2 ㎒ ~ 1 909.8 ㎒
UMTS Band 2	Voice / Data	1 852.4 ㎒ ~ 1 907.6 ㎒
UMTS Band 4	Voice / Data	1 712.4 ㎒ ~ 1 752.6 ㎒
UMTS Band 5	Voice / Data	826.4 ㎒ ~ 846.6 ㎒
LTE FDD Band 2 (PCS)	Voice / Data	1 850.7 ㎒ ~ 1 909.3 ㎒
LTE FDD Band 4 (AWS)	Voice / Data	1 710.7 ㎒ ~ 1 754.3 ㎒
LTE FDD Band 5 (Cell)	Voice / Data	824.7 ㎒ ~ 848.3 ㎒
LTE FDD Band 12	Voice / Data	699.7 ㎒ ~ 715.3 ㎒
LTE FDD Band 13	Voice / Data	779.5 ㎒ ~ 784.5 ㎒
LTE FDD Band 17	Voice / Data	706.5 ㎒ ~ 713.5 ㎒
LTE FDD Band 25	Voice / Data	1 850.7 ㎒ ~ 1 914.3 ㎒
LTE FDD Band 26	Voice / Data	814.7 ㎒ ~ 848.3 ㎒
LTE TDD Band 41	Voice / Data	2 498.5 ㎒ ~ 2 687.5 ㎒
LTE FDD Band 66 (AWS)	Voice / Data	1 710.7 ㎒ ~ 1 779.3 ㎒
NR FDD Band n2 (PCS)	Voice / Data	1 852.5 ㎒ ~ 1 907.5 ㎒
NR FDD Band n5	Voice / Data	826.5 ㎒ ~ 846.5 ㎒
NR FDD Band n25 (PCS)	Voice / Data	1 852.5 ㎒ ~ 1 912.5 ㎒
NR TDD Band n41	Voice / Data	2 501.01 ㎒ ~ 2 685 ㎒
NR FDD Band n66	Voice / Data	1 712.5 ㎒ ~ 1 777.5 ㎒
NR TDD Band n77	Voice / Data	3 705 ㎒ ~ 3 975 ㎒
NR TDD Band n77 DoD	Voice / Data	3 445.01 ㎒ ~ 3 544.98 ㎒
U-NII-1	Voice / Data	5 180 ㎒ ~ 5 240 ㎒
U-NII-2A	Voice / Data	5 260 ㎒ ~ 5 320 ㎒
U-NII-2C	Voice / Data	5 500 ㎒ ~ 5 720 ㎒
U-NII-3	Voice / Data	5 745 ㎒ ~ 5 825 ㎒
U-NII-4	Voice / Data	5 845 ㎒ ~ 5 885 ㎒
U-NII-5	Voice / Data	5 925 ㎒ – 6 425 ㎒
U-NII-6	Voice / Data	6 425 ㎒ – 6 525 ㎒
U-NII-7	Voice / Data	6 525 ㎒ – 6 865 ㎒
U-NII-8	Voice / Data	6 865 ㎒ – 7 115 ㎒
2.4 ㎓ WLAN	Voice / Data	2 412 ㎒ ~ 2 462 ㎒
Bluetooth / LE 5.3	Data	2 402 ㎒ ~ 2 480 ㎒
NFC	Data	13.56 ㎒
WPC	Data	110 ㎑ ~ 148 ㎑

2.2 Time-Averaging for SAR

This device is enabled with Qualcomm® Smart Transmit algorithm to control and manage transmitting power in real time and to ensure that the time-averaged RF exposure from 2G/3G/4G/5G NR WWAN and WLAN/BT is incompliance with FCC requirements except NFC.

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.

2.3 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 (d*W*) absorbed by (dissipated in) an incremental mass (d*m*) contained in a volume element (d*V*) of a given density (*r*). It is also defined as the rate of RF energy absorption per unit mass at a point in an absorbing body

$$\boldsymbol{SAR} = \frac{\boldsymbol{d}}{\boldsymbol{d\,t}}\left(\frac{\boldsymbol{d\ U}}{\boldsymbol{d\,m}}\right)$$

SAR Mathematical Equation

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

$$\boldsymbol{SAR} = \boldsymbol{\sigma}\ \boldsymbol{E^2}\ /\ \boldsymbol{\rho}$$

Where:
σ = conductivity of the tissue-simulant material (S/m)
ρ = mass density of the tissue-simulant material (kg/㎥)
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		
			Δzzoom(n)	Δzzoom(1)*	Δzzoom(n>1)*	
≤2 GHz	≤15	≤8	≤5	≤4	≤1.5*Δzzoom(n-1)	≥30
2-3 GHz	≤12	≤5	≤5	≤4	≤1.5*Δzzoom(n-1)	≥30
3-4 GHz	≤12	≤5	≤4	≤3	≤1.5*Δzzoom(n-1)	≥28
4-5 GHz	≤10	≤4	≤3	≤2.5	≤1.5*Δzzoom(n-1)	≥25
5-6 GHz	≤10	≤4	≤2	≤2	≤1.5*Δzzoom(n-1)	≥22

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

4. SAR CHARAC TERIZATION

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 = 2)	Device positioned next to head	Head SAR per KDB Publication 648474 D04
BodyWorn Phablet,Earjack (DSI = 0,1,4)	Device is held with hand Device being used with a body-worn accessory Device being used with a Earjack	Phablet SAR per KDB Publication 648474 D04 Body-worn SAR per KDB Publication 648474 D04
Hotspot (DSI = 3)	Device transmits in hotspot mode near body	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).

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

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
0,1,4	The worst-case SAR exposure is determined as maximum SAR normalized to the limit among: 1. Extremity SAR measured at 0 mm 2. Body-Worn SAR at 10mm 4. Earjack SAR at 0,10mm
2	Plimit is calculated based on 1g Head SAR
3	Plimit is calculated based on 1g Hotspot SAR at 5,10mm

Table 4-3 *PLimit* Determination

Table 4-4 SAR Characterization

Plim values in green indicate Plimit < Pmax			Plim values in grey indicate Plimit > Pmax					
Plimit corresponding to 1 W/kg (1g) 2.5W/kg(10g) SAR_Design_target								Pmax
SAR Exposure Position			Body-worn	Phablet	Head (RCV ON)	Hotspot (Hotspot on)	Earjack	Maximum Tune-up Output Power (Frame Averaged Power) [dBm]
Averaging volume			1g	10g	1g	1g	1g/10g	
seperation Distance			10 mm	0mm	0 mm	10/5 mm	10/0 mm	
Mode	Band	Antenna	DSI=0	DSI=1	DSI=2	DSI=3	DSI=4	
GSM/GPRS/EDGE	850	ANT A	27.5		31.5	19.3	30.1	22.8
GSM/GPRS/EDGE	1900	ANT A	17.3		34.8	15.3	22.6	20.3
UMTS	2	ANT A	20.0		20.9	15.5	20.0	22.0
UMTS	4	ANT A	20.0		21.4	17.5	20.0	22.0
UMTS	5	ANT A	25.8		22.4	21.5	29.4	23.0
LTE FDD	25(2)	ANT A	20.3		30.9	15.3	20.3	22.3
LTE FDD	25(2)	ANT I	20.5		15.0	15.5	20.5	24.5
LTE FDD	66(4)	ANT A	19.8		33.8	16.8	19.8	22.8
LTE FDD	66(4)	ANT I	20.5		16.5	16.5	20.5	24.5
LTE FDD	12(17)	ANT A	21.0		32.2	21.0	21.0	23.5
LTE FDD	13	ANT A	21.0		30.2	21.0	21.0	23.5
LTE FDD	26(5)	ANT A	27.9		31.3	22.5	29.6	23.5
LTE TDD PC3	41	ANT B	22.4		37.1	15.0	22.4	19.0
LTE TDD PC3	41	ANT I	20.5		13.8	16.5	20.5	22.5
LTE TDD PC2	41	ANT B	20.7		39.5	17.7	20.7	20.4
LTE TDD PC2	41	ANT I	20.5		13.8	16.5	20.5	21.9
NR FDD	25(2)	ANT A	20.3		33.4	15.3	20.3	22.0
NR FDD	25(2)	ANT I	21.0		15.5	16.0	21.0	25.0
NR FDD	5	ANT A	26.6		30.2	22.5	28.7	23.5
NR TDD SRS 1 PC3	41	ANT I	21.0		14.3	17.0	21.0	24.5
NR TDD SRS 2	41	ANT B	16.0		11.2	13.5	16.0	19.5
NR TDD SRS 3	41	ANT F	18.0		13.2	15.5	18.0	23.0
NR TDD SRS 4	41	ANT C	12.5		7.7	10.0	12.5	17.5
NR FDD	66	ANT A	20.3		34.4	17.3	20.3	22.5
NR FDD	66	ANT I	20.5		17.0	17.0	20.5	24.7
NR TDD SRS 1 PC3	77	ANT F	18.5		14.0	15.5	18.5	24.5
NR TDD SRS 2	77	ANT I	18.5		14.0	15.5	18.5	24.5
NR TDD SRS 3	77	ANT E	18.5		14.0	15.5	18.5	24.5
NR TDD SRS 4	77	ANT C	12.0		7.5	9.0	12.0	15.0
NR TDD SRS 1 PC3	77 DoD	ANT F	18.5		14.0	15.5	18.5	24.5
NR TDD SRS 2	77 DoD	ANT I	18.5		14.0	15.5	18.5	24.5
NR TDD SRS 3	77 DoD	ANT E	18.5		14.0	15.5	18.5	24.5
NR TDD SRS 4	77 DoD	ANT C	12.0		7.5	9.0	12.0	15.0
WLAN	2.4	ANT F	20.4		19.3	21.6	20.4	18.0
WLAN	2.4	ANT H	23.9		20.6	26.1	23.9	18.0
WLAN	5	ANT F	18.4		16.9	19.7	18.4	15.0
WLAN	5	ANT H	21.3		20.7	20.4	25.3	15.0
WLAN	6	ANT F	24.4		16.7	N/A	24.4	10.0
WLAN	6	ANT H	24.0		20.4	N/A	24.0	10.0
BT	2.4	ANT F	19.8		19.8	21.0	19.8	18.0
BT	2.4	ANT H	25.0		19.6	N/A	25.0	17.0

Note:

1. Compared with the Plimit(Tune up Powers) declared in each DSI by manufacturer and the plimit(calculation) calculated by the SAR measurement of each DSI, the lower power were applied to the plimit at each DSI configurations.
2. When *Pmax*< *Plimit*, the DUT will operate at a power level up to *Pmax*.
3. Maximum Tune up Power, Pmax 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

5. Equipment List

Manufacturer	Type / Model	S/N	Calib. Date	Calib.Interval	Calib.Due
SPEAG	SAM Phantom	-	N/A	N/A	N/A
HP	SAR System Control PC	-	N/A	N/A	N/A
Staubli	CS9spe-TX2-60	F/21/0029145/C/001	N/A	N/A	N/A
Staubli	CS8Cspeag-TX90	F07/56W9A1/C/01	N/A	N/A	N/A
Staubli	CS8Cspeag-TX90	F17/ 59RAA1/ C/ 01	N/A	N/A	N/A
Staubli	CS8Cspeag-TX90	F13/ 5R4XF1/ C/ 01	N/A	N/A	N/A
Staubli	CS8Cspeag-TX90	F11/ 5K3RA1/ C/ 01	N/A	N/A	N/A
Staubli	CS8Cspeag-TX90	F12/ 5K9GA1/ C/ 01	N/A	N/A	N/A
Staubli	CS8Cspeag-TX90	F08/5AJ0A1/C/01	N/A	N/A	N/A
Staubli	CS8Cspeag-TX60L	F10/5D1CA1/C/01	N/A	N/A	N/A
Staubli	CS8Cspeag-TX90	F13/ 5SD0A1/ C/ 01	N/A	N/A	N/A
Staubli	TX2-60 Lspe	F/21/0029145/A/001	N/A	N/A	N/A
Staubli	TX90 XLspeag	F07/56W9A1/A/01	N/A	N/A	N/A
Staubli	TX90 XLspeag	F17/59CHA1/ A/ 01	N/A	N/A	N/A
Staubli	TX90 Xlspeag	F13/5R4XF1/ A/ 01	N/A	N/A	N/A
Staubli	TX90 Lspeag	F11/ 5K3RA1/ A/ 01	N/A	N/A	N/A
Staubli	TX90 XLspeag	F12/ 5K9GA1/ A/ 01	N/A	N/A	N/A
Staubli	TX90 XLspeag	F08/5AJ0A1/A/01	N/A	N/A	N/A
Staubli	TX60 Xlspeag	F10/5D1CA1/A/01	N/A	N/A	N/A
Staubli	TX90 Xl speag	F13/ 5SD0A1/ A/ 01	N/A	N/A	N/A
Staubli	Teach Pendant (Joystick)	D21144507C	N/A	N/A	N/A
Staubli	Teach Pendant (Joystick)	D21142102	N/A	N/A	N/A
Staubli	Teach Pendant (Joystick)	D21142606B	N/A	N/A	N/A
Staubli	Teach Pendant (Joystick)	D21142605	N/A	N/A	N/A
Staubli	Teach Pendant (Joystick)	S-1203 0309	N/A	N/A	N/A
Staubli	Teach Pendant (Joystick)	S-1206 0513	N/A	N/A	N/A
Staubli	Teach Pendant (Joystick)	S-0008	N/A	N/A	N/A
Staubli	Teach Pendant (Joystick)	S-0123	N/A	N/A	N/A
Staubli	Teach Pendant (Joystick)	001729	N/A	N/A	N/A
TESTO	608-H1/Thermometer	83348028	03/20/2024	Annual	03/20/2025
TESTO	608-H1/Thermometer	83406789	06/29/2023	Annual	06/29/2024
TESTO	175-H1/Thermometer	40331922309	12/26/2023	Annual	12/26/2024
TESTO	175-H1/Thermometer	40332651310	12/26/2023	Annual	12/26/2024
TESTO	175-H1/Thermometer	40331936309	12/26/2023	Annual	12/26/2024
TESTO	175-H1/Thermometer	40331939309	12/26/2023	Annual	12/26/2024
TESTO	175-H1/Thermometer	40331949309	12/26/2023	Annual	12/26/2024
TESTO	175-H1/Thermometer	44606611906	03/20/2024	Annual	03/20/2025
TESTO	175-H1/Thermometer	83348029	03/20/2024	Annual	03/20/2025
SPEAG	DAE4	1750	09/19/2023	Annual	09/19/2024
SPEAG	DAE4	1720	04/24/2023	Annual	04/24/2024
SPEAG	DAE4	868	09/20/2023	Annual	09/20/2024
SPEAG	DAE4	869	03/15/2024	Annual	03/15/2025
SPEAG	DAE4	1687	07/18/2023	Annual	07/18/2024
SPEAG	DAE4	1417	02/16/2024	Annual	02/16/2025
SPEAG	DAE4	446	11/16/2023	Annual	11/16/2024
SPEAG	DAE4	504	01/30/2024	Annual	01/30/2025
SPEAG	DAE4	648	04/25/2023	Annual	04/25/2024
SPEAG	DAE4	652	01/17/2024	Annual	01/17/2025
SPEAG	DAE4	1464	06/16/2023	Annual	06/16/2024
SPEAG	DAE4	1686	05/23/2023	Annual	05/23/2024

Manufacturer	Type / Model	S/N	Calib. Date	Calib.Interval	Calib.Due
SPEAG	E-Field Probe EX3DV4	7702	01/22/2024	Annual	01/22/2025
SPEAG	E-Field Probe EX3DV4	3968	09/27/2023	Annual	09/27/2024
SPEAG	E-Field Probe EX3DV4	3797	01/23/2024	Annual	01/23/2025
SPEAG	E-Field Probe EX3DV4	3903	07/19/2023	Annual	07/19/2024
SPEAG	E-Field Probe EX3DV4	7655	05/25/2023	Annual	05/25/2024
SPEAG	E-Field Probe ES3DV3	3076	07/18/2023	Annual	07/18/2024
SPEAG	E-Field Probe EX3DV4	7654	05/24/2023	Annual	05/24/2024
SPEAG	E-Field Probe EX3DV4	7681	11/27/2023	Annual	11/27/2024
SPEAG	E-Field Probe EX3DV4	7732	06/20/2023	Annual	06/20/2024
SPEAG	E-Field Probe EX3DV4	7751	10/06/2023	Annual	10/06/2024
SPEAG	E-Field Probe EX3DV4	7654	05/24/2023	Annual	05/24/2024
SPEAG	Dipole D750V3	1014	05/23/2023	Annual	05/23/2024
SPEAG	Dipole D835V2	4d165	05/23/2023	Annual	05/23/2024
SPEAG	Dipole D1800V2	2d015	05/17/2023	Annual	05/17/2024
SPEAG	Dipole D1900V2	5d032	01/18/2024	Annual	01/23/2025
SPEAG	Dipole D2450V2	1049	04/25/2023	Annual	04/25/2024
SPEAG	Dipole D2450V2	743	03/14/2024	Annual	03/14/2025
SPEAG	Dipole D2600V2	1106	05/24/2023	Annual	05/24/2024
SPEAG	Dipole D3500V2	1132	01/23/2024	Annual	01/23/2025
SPEAG	Dipole D3700V2	1066	11/20/2023	Annual	11/20/2024
SPEAG	Dipole D3900V2	1019	05/19/2023	Annual	05/19/2024
SPEAG	Dipole D5GHzV2	1317	05/17/2023	Annual	05/17/2024
SPEAG	Dipole D6.5GHzV2	1012	09/21/2023	Annual	09/21/2024
Agilent	Power Meter E4419B	MY41291386	09/21/2023	Annual	09/21/2024
Agilent	Power Meter N1911A	MY45101406	05/26/2023	Annual	05/26/2024
Agilent	Power Sensor 8481A	SG1091286	09/21/2023	Annual	09/21/2024
H.P	Power Sensor 8481A	MY41090675	09/21/2023	Annual	09/21/2024
Agilent	Wideband Power Sensor N1921A	MY55220026	07/28/2023	Annual	07/28/2024
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	050813	04/26/2023	Annual	04/26/2024
SPEAG	Vector Reflectometer	21393001	03/21/2024	Annual	03/21/2025
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
Protek	NETWORK ANALYZER	X11-15305	02/15/2024	Annual	02/15/2025
Agilent	WIRELESS COMMUNICATION E5515C	MY48361100	09/21/2023	Annual	09/21/2024
Agilent	WIRELESS COMMUNICATION E5515C	MY48360252	07/27/2023	Annual	07/27/2024
R&S	Wireless Communication Test Set CMW500	115733	03/19/2024	Annual	03/19/2025
R&S	Wireless Communication Test Set CMW500	139333	12/13/2023	Annual	12/13/2024
Agilent	SIGNAL GENERATOR N5182A	MY47070230	03/19/2024	Annual	03/19/2025
Keysight	PSG Vector Signal Generator	MY50350097	03/05/2024	Annual	03/05/2025
EMPOWER	RF Power Amplifier	1084	05/26/2023	Annual	05/26/2024
EMPOWER	RF Power Amplifier	1041D/C0508	05/26/2023	Annual	05/26/2024
EMPOWER	RF Power Amplifier	1011	09/21/2023	Annual	09/21/2024
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
Agilent	Attenuator (3dB) 8693B	MY39260298	08/22/2023	Annual	08/22/2024
HP	Attenuator (3dB) 33340A	02427	08/22/2023	Annual	08/22/2024
HP	Attenuator (20dB) 8493C	09271	08/22/2023	Annual	08/22/2024
Agilent	Directional Bridge 86205A	3140A04581	04/25/2023	Annual	04/25/2024

Manufacturer	Type / Model	S/N	Calib. Date	Calib.Interval	Calib.Due
Agilent	MXA Signal Analyzer N9020A	MY50510407	06/07/2023	Annual	06/07/2024
HP	Dual Directional Coupler	16072	09/21/2023	Annual	09/21/2024
Anritsu	Radio Communication Test Station MT8000A	6261987928	01/18/2024	Annual	01/18/2025
Anritsu	Radio Communication Test Station MT8000A	6262036812	11/28/2023	Annual	11/28/2024
Anritsu	Radio Communication Test Station MT8000A	6262148305	12/21/2023	Annual	12/21/2024
Anritsu	Radio Communication Test Station MT8000A	6261967108	04/25/2023	Annual	04/25/2024
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	05/26/2023	Annual	05/26/2024
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
Agilent	WIRELESS COMMUNICATION E5515C	MY50260992	05/26/2023	Annual	05/26/2024
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.

Appendix A: SAR Test Results For Plimit CALCULATIONS

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

MEASUREMENT RESULTS										
Frequency		Mode/ Band		Ant.	Frame Averaged Conducted Power	Test Position	Duty Cycle	Meas. SAR(1g)	Plimit	Minimum Plimit
MHz	Ch.				(dBm)			(W/kg)	(dBm)	(dBm)
836.6	190	GSM 850	GPRS 4Tx	A	23.09	Left Cheek	1:2.07	0.120	32.3	31.5
836.6	190	GSM 850		A	23.09	Left Tilt	1:2.07	0.078	34.2	
836.6	190	GSM 850		A	23.09	Right Cheek	1:2.07	0.145	31.5	
836.6	190	GSM 850		A	23.09	Right Tilt	1:2.07	0.079	34.1	
1 880	661	GSM 1900	GPRS 4Tx	A	23.07	Left Cheek	1:2.07	0.036	34.8	34.8
1 880	661	GSM 1900		A	23.07	Left Tilt	1:2.07	0.010	40.4	
1 880	661	GSM 1900		A	23.07	Right Cheek	1:2.07	0.016	38.3	
1 880	661	GSM 1900		A	23.07	Right Tilt	1:2.07	0.0088	40.8	
836.6	4183	UMTS Band 5	RMC	A	22.59	Left Cheek	1:1	0.164	30.4	29.9
836.6	4183	UMTS Band 5	RMC	A	22.59	Left Tilt	1:1	0.087	33.2	
836.6	4183	UMTS Band 5	RMC	A	22.59	Right Cheek	1:1	0.185	29.9	
836.6	4183	UMTS Band 5	RMC	A	22.59	Right Tilt	1:1	0.071	34.1	
1 732.4	1412	UMTS Band 4	RMC	A	21.22	Left Cheek	1:1	0.036	35.7	35.3
1 732.4	1412	UMTS Band 4	RMC	A	21.22	Left Tilt	1:1	0.024	37.4	
1 732.4	1412	UMTS Band 4	RMC	A	21.22	Right Cheek	1:1	0.039	35.3	
1 732.4	1412	UMTS Band 4	RMC	A	21.22	Right Tilt	1:1	0.027	36.9	
1 880	9400	UMTS Band 2	RMC	A	21.04	Left Cheek	1:1	0.052	33.9	33.9
1 880	9400	UMTS Band 2	RMC	A	21.04	Left Tilt	1:1	0.023	37.4	
1 880	9400	UMTS Band 2	RMC	A	21.04	Right Cheek	1:1	0.021	37.8	
1 880	9400	UMTS Band 2	RMC	A	21.04	Right Tilt	1:1	0.025	37.1	

Table A-2 DSI = 2 *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.				(dBm)	(dBm)		(dB)				(W/kg)	(dBm)	(dBm)
707.5	23095	LTE Band 12	Mid	A	10	24.14	Left Cheek	0	1	0	1:1	0.150	32.4	32.2
707.5	23095	LTE Band 12	Mid	A	10	24.14	Left Tilt	0	1	0	1:1	0.096	34.3	
707.5	23095	LTE Band 12	Mid	A	10	24.14	Right Cheek	0	1	0	1:1	0.156	32.2	
707.5	23095	LTE Band 12	Mid	A	10	24.14	Right Tilt	0	1	0	1:1	0.086	34.8	
782	23230	LTE Band 13	Mid	A	10	23.82	Left Cheek	0	1	24	1:1	0.063	35.8	30.2
782	23230	LTE Band 13	Mid	A	10	22.80	Left Tilt	1	25	12	1:1	0.180	30.2	
782	23230	LTE Band 13	Mid	A	10	23.82	Right Cheek	0	1	24	1:1	0.073	35.2	
782	23230	LTE Band 13	Mid	A	10	23.82	Right Tilt	0	1	24	1:1	0.04	37.8	
1 905	26590	LTE Band 25	High	A	20	22.31	Left Cheek	0	1	99	1:1	0.137	30.9	30.9
1 905	26590	LTE Band 25	High	A	20	22.31	Left Tilt	0	1	99	1:1	0.036	36.7	
1 905	26590	LTE Band 25	High	A	20	22.31	Right Cheek	0	1	99	1:1	0.054	35.0	
1 905	26590	LTE Band 25	High	A	20	21.22	Right Tilt	1	50	49	1:1	0.025	37.2	
1 905	26590	LTE Band 25	High	I	20	15.07	Left Cheek	0	50	25	1:1	0.407	19.0	19.0
1 905	26590	LTE Band 25	High	I	20	15.07	Left Tilt	0	50	25	1:1	0.104	24.9	
1 905	26590	LTE Band 25	High	I	20	15.07	Right Cheek	0	50	25	1:1	0.099	25.1	
1 860	26140	LTE Band 25	High	I	20	15.31	Right Tilt	0	1	49	1:1	0.046	28.7	
831.5	26865	LTE Band 26	Mid	A	15	23.85	Left Cheek	0	1	36	1:1	0.011	43.4	31.3
831.5	26865	LTE Band 26	Mid	A	15	23.85	Left Tilt	0	1	36	1:1	0.096	34.0	
831.5	26865	LTE Band 26	Mid	A	15	23.85	Right Cheek	0	1	36	1:1	0.181	31.3	
831.5	26865	LTE Band 26	Mid	A	15	23.85	Right Tilt	0	1	36	1:1	0.081	34.8	
2 506	39750	LTE Band41(PC3)	Low	B	20	19.40	Left Cheek	0	1	0	1:1.58	0.017	37.1	37.1
2 506	39750	LTE Band41(PC3)	Low	B	20	19.40	Left Tilt	0	1	0	1:1.58	0.00641	41.6	
2 506	39750	LTE Band41(PC3)	Low	B	20	19.4	Right Cheek	0	1	0	1:1.58	0.013	38.3	
2 506	39750	LTE Band41(PC3)	Low	B	20	19.40	Right Tilt	0	1	0	1:1.58	0.011	39.0	
2 506	39750	LTE Band41(PC2)	Low	B	20	20.61	Right Cheek	0	1	0	1:2.31	0.013	39.5	
2 593	40620	LTE Band41(PC3)	Mid	I	20	14.03	Left Cheek	0	1	0	1:1.58	0.630	16.0	15.2
2 636.5	41055	LTE Band41(PC3)	Mid-High	I	20	14.03	Left Tilt	0	1	0	1:1.58	0.109	23.7	
2 680	41490	LTE Band41(PC3)	High	I	20	14.03	Right Cheek	0	1	0	1:1.58	0.125	23.1	
2 680	41490	LTE Band41(PC3)	High	I	20	14.03	Right Tilt	0	1	0	1:1.58	0.027	29.7	
2 593	40620	LTE Band41(PC2)	Mid	I	20	13.96	Right Tilt	0	1	0	1:2.31	0.747	15.2	
1 770	132572	LTE Band 66	Mid	A	20	22.59	Left Cheek	0	1	49	1:1	0.075	33.8	33.8
1 770	132572	LTE Band 66	Mid	A	20	22.59	Left Tilt	0	1	49	1:1	0.037	36.9	
1 770	132572	LTE Band 66	Mid	A	20	22.59	Right Cheek	0	1	49	1:1	0.061	34.7	
1 770	132572	LTE Band 66	Mid	A	20	22.59	Right Tilt	0	1	49	1:1	0.05	35.6	
1 720	132072	LTE Band 66	High	I	20	16.56	Left Cheek	0	1	49	1:1	0.569	19.0	19.0
1 720	132072	LTE Band 66	High	I	20	16.40	Left Tilt	0	50	49	1:1	0.146	24.8	
1 720	132072	LTE Band 66	High	I	20	16.56	Right Cheek	0	1	49	1:1	0.347	21.2	
1 720	132072	LTE Band 66	High	I	20	16.56	Right Tilt	0	1	49	1:1	0.08	27.5	

Table A-3 DSI = 2 *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 TDD NR 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	Ch.				(dBm)	(dBm)			(dB)				(W/kg)	(dBm)	(dBm)
836.5	167300	NR Band n5	Mid	A	20	23.91	Left Cheek	DFT-s-OFDM QPSK	0	1	53	1:1	0.195	31.0	30.2
836.5	167300	NR Band n5	Mid	A	20	23.91	Left Tilt	DFT-s-OFDM QPSK	0	1	53	1:1	0.126	32.9	
836.5	167300	NR Band n5	Mid	A	20	23.91	Right Cheek	DFT-s-OFDM QPSK	0	1	53	1:1	0.235	30.2	
836.5	167300	NR Band n5	Mid	A	20	23.91	Right Tilt	DFT-s-OFDM QPSK	0	1	53	1:1	0.127	32.9	
1 882.5	376500	NR Band n25	Mid	A	40	22.54	Left Cheek	DFT-s-OFDM QPSK	0	1	214	1:1	0.082	33.4	33.4
1 882.5	376500	NR Band n25	Mid	A	40	22.37	Left Tilt	DFT-s-OFDM QPSK	0	108	54	1:1	0.031	37.5	
1 882.5	376500	NR Band n25	Mid	A	40	22.54	Right Cheek	DFT-s-OFDM QPSK	0	1	214	1:1	0.06	34.8	
1 882.5	376500	NR Band n25	Mid	A	40	22.37	Right Tilt	DFT-s-OFDM QPSK	0	108	54	1:1	0.017	40.1	
1 882.5	376500	NR Band n25	Mid	I	40	15.64	Left Cheek	DFT-s-OFDM QPSK	0	216	0	1:1	0.726	17.0	17.0
1 882.5	376500	NR Band n25	Mid	I	40	15.63	Left Tilt	DFT-s-OFDM QPSK	0	1	1	1:1	0.138	24.2	
1 882.5	376500	NR Band n25	Mid	I	40	15.63	Right Cheek	DFT-s-OFDM QPSK	0	1	1	1:1	0.231	22.0	
1 882.5	376500	NR Band n25	Mid	I	40	15.63	Right Tilt	DFT-s-OFDM QPSK	0	1	1	1:1	0.232	22.0	
2 592.99	518598	NR Band n41(PC2)	Mid	I	100	14.3	Left Cheek	DFT-s-OFDM QPSK	0	1	1	1:1	0.724	15.7	15.7
2 592.99	518598	NR Band n41(PC2)	Mid	I	100	14.3	Left Tilt	DFT-s-OFDM QPSK	0	1	1	1:1	0.133	23.1	
2 592.99	518598	NR Band n41(PC2)	Mid	I	100	14.3	Right Cheek	DFT-s-OFDM QPSK	0	1	1	1:1	0.181	21.7	
2 592.99	518598	NR Band n41(PC2)	Mid	I	100	14.3	Right Tilt	DFT-s-OFDM QPSK	0	1	1	1:1	0.039	28.4	
2 592.99	518598	NR Band n41 SRS2	Mid	B	100	11.98	Left Cheek	CW	0	-	-	1:1	0	N/A	N/A
2 592.99	518598	NR Band n41 SRS2	Mid	B	100	11.98	Left Tilt	CW	0	-	-	1:1	0	N/A	
2 592.99	518598	NR Band n41 SRS2	Mid	B	100	11.98	Right Cheek	CW	0	-	-	1:1	0	N/A	
2 592.99	518598	NR Band n41 SRS2	Mid	B	100	11.98	Right Tilt	CW	0	-	-	1:1	0	N/A	
2 592.99	518598	NR Band n41 SRS3	Mid	F	100	13.72	Left Cheek	CW	0	-	-	1:1	0.038	27.9	21.3
2 592.99	518598	NR Band n41 SRS3	Mid	F	100	13.72	Left Tilt	CW	0	-	-	1:1	0.031	28.8	
2 592.99	518598	NR Band n41 SRS3	Mid	F	100	13.72	Right Cheek	CW	0	-	-	1:1	0.173	21.3	
2 592.99	518598	NR Band n41 SRS3	Mid	F	100	13.72	Right Tilt	CW	0	-	-	1:1	0.114	23.2	
2 592.99	518598	NR Band n41 SRS4	Mid	C	100	7.56	Left Cheek	CW	0	-	-	1:1	0	N/A	N/A
2 592.99	518598	NR Band n41 SRS4	Mid	C	100	7.56	Left Tilt	CW	0	-	-	1:1	0	N/A	
2 592.99	518598	NR Band n41 SRS4	Mid	C	100	7.56	Right Cheek	CW	0	-	-	1:1	0	N/A	
2 592.99	518598	NR Band n41 SRS4	Mid	C	100	7.56	Right Tilt	CW	0	-	-	1:1	0	N/A	
1 745	349000	NR Band 66	Mid	A	40	22.75	Left Cheek	DFT-s-OFDM QPSK	0	1	214	1:1	0.068	34.4	34.4
1 745	349000	NR Band 66	Mid	A	40	22.75	Left Tilt	DFT-s-OFDM QPSK	0	1	214	1:1	0.043	36.4	
1 745	349000	NR Band 66	Mid	A	40	22.52	Right Cheek	DFT-s-OFDM QPSK	0	108	54	1:1	0.055	35.1	
1 745	349000	NR Band 66	Mid	A	40	22.75	Right Tilt	DFT-s-OFDM QPSK	0	1	214	1:1	0.038	37.0	
1 745	349000	NR Band 66	Mid	I	40	16.62	Left Cheek	DFT-s-OFDM QPSK	0	1	214	1:1	0.704	18.1	18.1
1 745	349000	NR Band 66	Mid	I	40	16.62	Left Tilt	DFT-s-OFDM QPSK	0	1	214	1:1	0.201	23.6	
1 745	349000	NR Band 66	Mid	I	40	16.62	Right Cheek	DFT-s-OFDM QPSK	0	1	214	1:1	0.421	20.4	
1 745	349000	NR Band 66	Mid	I	40	16.62	Right Tilt	DFT-s-OFDM QPSK	0	1	214	1:1	0.097	26.8	

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	Ch.				(dBm)	(dBm)			(dB)				(W/kg)	(dBm)	(dBm)
3 930	662000	NR Band 77	High	F	100	14.24	Left Cheek	DFT-s-OFDM QPSK	0	1	1	1:1	0.213	21.0	18.0
3 930	662000	NR Band 77	High	F	100	14.24	Left Tilt	DFT-s-OFDM QPSK	0	1	1	1:1	0.213	21.0	
3 930	662000	NR Band 77	High	F	100	14.24	Right Cheek	DFT-s-OFDM QPSK	0	1	1	1:1	0.422	18.0	
3 930	662000	NR Band 77	High	F	100	14.24	Right Tilt	DFT-s-OFDM QPSK	0	1	1	1:1	0.327	19.1	
3 500.01	633334	NR Band 77 DoD	Mid	F	100	13.55	Right Cheek	DFT-s-OFDM QPSK	0	1	1	1:1	0.629	15.6	15.6
3 750	650000	NR Band 77 SRS2	Low	I	100	14.92	Left Cheek	CW	0	-	-	1:1	0.206	21.8	21.1
3 750	650000	NR Band 77 SRS2	Low	I	100	14.92	Left Tilt	CW	0	-	-	1:1	0.011	34.5	
3 750	650000	NR Band 77 SRS2	Low	I	100	14.92	Right Cheek	CW	0	-	-	1:1	0.240	21.1	
3 750	650000	NR Band 77 SRS2	Low	I	100	14.92	Right Tilt	CW	0	-	-	1:1	0	N/A	
3 500.01	633334	NR Band 77DoD SRS2	Mid	I	100	13.91	Left Cheek	CW	0	-	-	1:1	0.277	19.5	19.5
3 930	662000	NR Band 77 SRS3	High	E	100	14.92	Left Cheek	CW	0	-	-	1:1	0.279	20.5	20.5
3 930	662000	NR Band 77 SRS3	High	E	100	14.92	Left Tilt	CW	0	-	-	1:1	0.024	31.1	
3 930	662000	NR Band 77 SRS3	High	E	100	14.92	Right Cheek	CW	0	-	-	1:1	0.248	21.0	
3 930	662000	NR Band 77 SRS3	High	E	100	14.92	Right Tilt	CW	0	-	-	1:1	0.021	31.7	
3 500.01	633334	NR Band 77DoD SRS3	Mid	E	100	13.85	Left Cheek	CW	0	-	-	1:1	0.177	19.5	19.5
3 750	650000	NR Band 77 SRS4	Low	C	100	7.10	Left Cheek	CW	0	-	-	1:1	0	N/A	N/A
3 750	650000	NR Band 77 SRS4	Low	C	100	7.10	Left Tilt	CW	0	-	-	1:1	0	N/A	
3 750	650000	NR Band 77 SRS4	Low	C	100	7.10	Right Cheek	CW	0	-	-	1:1	0	N/A	
3 750	650000	NR Band 77 SRS4	Low	C	100	7.10	Right Tilt	CW	0	-	-	1:1	0	N/A	
3 500.01	633334	NR Band 77DoD SRS4	Mid	C	100	6.53	Left Cheek	CW	0	-	-	1:1	0	N/A	N/A

Table A-4 DSI = 2 *PLimit* Calculations – WLAN Head 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)
2 412	1	802.11b	20	F	1	17.86	Left Cheek	WIFI1	98.8	0.172	1.012	25.5	19.3
2 412	1	802.11b	20	F	1	17.86	Left Tilt	WIFI1	98.8	0.104	1.012	27.7	
2 412	1	802.11b	20	F	1	17.86	Right Cheek	WIFI1	98.8	0.724	1.012	19.3	
2 412	1	802.11b	20	F	1	17.86	Right Tilt	WIFI1	98.8	0.390	1.012	21.9	
2 437	6	802.11b	20	H	1	17.55	Left Cheek	WIFI2	98.8	0.494	1.012	20.6	20.6
2 437	6	802.11b	20	H	1	17.55	Left Tilt	WIFI2	98.8	0.326	1.012	22.4	
2 437	6	802.11b	20	H	1	17.55	Right Cheek	WIFI2	98.8	0.231	1.012	23.9	
2 437	6	802.11b	20	H	1	17.55	Right Tilt	WIFI2	98.8	0.213	1.012	24.3	
5 865	173	802.11a	20	F	6	15.49	Left Cheek	WIFI1	94.2	0.196	1.062	22.6	16.9
5 865	173	802.11a	20	F	6	15.49	Left Tilt	WIFI1	94.2	0.322	1.062	20.4	
5 865	173	802.11a	20	F	6	15.49	Right Cheek	WIFI1	94.2	0.723	1.062	16.9	
5 865	173	802.11a	20	F	6	15.49	Right Tilt	WIFI1	94.2	0.561	1.062	18.0	
5 865	173	802.11a	20	H	6	14.71	Left Cheek	WIFI2	94.2	0.249	1.062	20.7	20.7
5 865	173	802.11a	20	H	6	14.71	Left Tilt	WIFI2	94.2	0	1.062	0	
5 865	173	802.11a	20	H	6	14.71	Right Cheek	WIFI2	94.2	0.083	1.062	25.5	
5 865	173	802.11a	20	H	6	14.71	Right Tilt	WIFI2	94.2	0	1.062	0	
6 525	115	802.11ax	40	F	MCS0	10.21	Left Cheek	WIFI1	99.7	0.064	1.003	22.1	16.7
6 525	115	802.11ax	40	F	MCS0	10.21	Left Tilt	WIFI1	99.7	0.059	1.003	22.5	
6 525	115	802.11ax	40	F	MCS0	10.21	Right Cheek	WIFI1	99.7	0.225	1.003	16.7	
6 525	115	802.11ax	40	F	MCS0	10.21	Right Tilt	WIFI1	99.7	0.123	1.003	19.3	
6 525	115	802.11ax	40	H	MCS0	10.23	Left Cheek	WIFI2	99.7	0.097	1.003	20.4	20.4
6 525	115	802.11ax	40	H	MCS0	10.23	Left Tilt	WIFI2	99.7	0.047	1.003	23.5	
6 525	115	802.11ax	40	H	MCS0	10.23	Right Cheek	WIFI2	99.7	0.022	1.003	26.8	
6 525	115	802.11ax	40	H	MCS0	10.23	Right Tilt	WIFI2	99.7	0.021	1.003	27.0	

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)
2 402	0	DH-5	F	18.82	Left Cheek	Ant 1	0.192	1.010	26.0	19.8
2 402	0	DH-5	F	18.82	Left Tilt	Ant 1	0.115	1.010	28.2	
2 402	0	DH-5	F	18.82	Right Cheek	Ant 1	0.803	1.010	19.8	
2 402	0	DH-5	F	18.82	Right Tilt	Ant 1	0.461	1.010	22.2	
2 441	39	DH-5	H	17.72	Left Cheek	Ant 2	0.652	1.010	19.6	19.6
2 441	39	DH-5	H	17.72	Left Tilt	Ant 2	0.363	1.010	22.1	
2 441	39	DH-5	H	17.72	Right Cheek	Ant 2	0.255	1.010	23.7	
2 441	39	DH-5	H	17.72	Right Tilt	Ant 2	0.254	1.010	23.7	

Table A-5 DSI = 0 *PLimit* 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		Form Factor	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	GPRS 4Tx	Open	A	23.09	Back	10	1:2.07	0.296	28.4	27.5
836.6	190	GSM 850	GPRS 4Tx	Open	A	23.09	Front	10	1:2.07	0.230	29.5	
836.6	190	GSM 850	GPRS 4Tx	Close	A	23.09	Back	10	1:2.07	0.361	27.5	
836.6	190	GSM 850	GPRS 4Tx	Close	A	23.09	Front	10	1:2.07	0.115	32.5	
1 880.0	661	GSM 1900	GPRS 4Tx	Open	A	16.69	Rear	10	1:2.07	0.413	20.5	20.5
1 880.0	661	GSM 1900	GPRS 4Tx	Open	A	16.69	Front	10	1:2.07	0.283	22.2	
1 880.0	661	GSM 1900	GPRS 4Tx	Close	A	16.69	Rear	10	1:2.07	0.383	20.9	
1 880.0	661	GSM 1900	GPRS 4Tx	Close	A	16.69	Front	10	1:2.07	0.030	31.9	
836.6	4183	UMTS 850	RMC	Open	A	23.64	Rear	10	1:1	0.323	28.5	25.8
836.6	4183	UMTS 850	RMC	Open	A	23.64	Front	10	1:1	0.260	29.5	
836.6	4183	UMTS 850	RMC	Close	A	23.64	Rear	10	1:1	0.606	25.8	
836.6	4183	UMTS 850	RMC	Close	A	23.64	Front	10	1:1	0.220	30.2	
1 732.4	1412	UMTS 1700	RMC	Open	A	20.21	Rear	10	1:1	0.880	20.8	20.8
1 732.4	1412	UMTS 1700	RMC	Open	A	20.21	Front	10	1:1	0.581	22.6	
1 732.4	1412	UMTS 1700	RMC	Close	A	20.21	Rear	10	1:1	0.253	26.2	
1 732.4	1412	UMTS 1700	RMC	Close	A	20.21	Front	10	1:1	0.207	27.1	
1 880	9400	UMTS 1900	RMC	Open	A	20.03	Rear	10	1:1	0.892	20.5	20.5
1 880	9400	UMTS 1900	RMC	Open	A	20.03	Front	10	1:1	0.586	22.4	
1 880	9400	UMTS 1900	RMC	Close	A	20.03	Rear	10	1:1	0.446	23.5	
1 880	9400	UMTS 1900	RMC	Close	A	20.03	Front	10	1:1	0.038	34.2	

Table A-6 DSI = 0 *PLimit* Calculations – 4G Body-Worn SAR

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

MEASUREMENT RESULTS																
Frequency		Mode		Form Factor	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)
707.5	23095	LTE Band 12	Mid	Open	A	10	22.14	Rear	10	0	1	0	1:1	0.218	28.8	28.8
707.5	23095	LTE Band 12	Mid	Open	A	10	22.14	Front	10	0	1	0	1:1	0.145	30.5	
707.5	23095	LTE Band 12	Mid	Close	A	10	22.14	Rear	10	0	1	0	1:1	0.433	25.8	
707.5	23095	LTE Band 12	Mid	Close	A	10	22.11	Front	10	0	25	0	1:1	0.115	31.5	
782	23230	LTE Band 13	Mid	Open	A	10	22.01	Rear	10	0	1	24	1:1	0.297	27.3	24.9
782	23230	LTE Band 13	Mid	Open	A	10	22.01	Front	10	0	1	24	1:1	0.202	29.0	
782	23230	LTE Band 13	Mid	Close	A	10	22.01	Rear	10	0	1	24	1:1	0.516	24.9	
782	23230	LTE Band 13	Mid	Close	A	10	22.01	Front	10	0	1	24	1:1	0.173	29.6	
1 905	26590	LTE Band 25	High	Open	A	20	20.66	Rear	10	0	1	99	1:1	0.959	20.8	20.8
1 905	26590	LTE Band 25	High	Open	A	20	20.66	Front	10	0	1	99	1:1	0.621	22.7	
1 905	26590	LTE Band 25	High	Close	A	20	20.66	Rear	10	0	1	99	1:1	0.858	21.3	
1 905	26590	LTE Band 25	High	Close	A	20	20.33	Front	10	0	50	49	1:1	0.057	32.8	
1 905	26590	LTE Band 25	High	Open	I	20	20.72	Rear	10	0	1	49	1:1	0.577	23.1	23.1
1 905	26590	LTE Band 25	High	Open	I	20	20.72	Front	10	0	1	49	1:1	0.300	25.9	
1 905	26590	LTE Band 25	High	Close	I	20	20.72	Rear	10	0	1	49	1:1	0.041	34.6	
1 905	26590	LTE Band 25	High	Close	I	20	20.72	Front	10	0	1	49	1:1	0.250	26.7	
831.5	26865	LTE Band 26	Mid	Open	A	15	23.85	Rear	10	0	1	36	1:1	0.392	27.9	27.9
831.5	26865	LTE Band 26	Mid	Open	A	15	23.85	Front	10	0	1	36	1:1	0.237	30.1	
831.5	26865	LTE Band 26	Mid	Close	A	15	23.85	Rear	10	0	1	36	1:1	0.210	30.6	
831.5	26865	LTE Band 26	Mid	Close	A	15	23.85	Front	10	0	1	36	1:1	0.178	31.3	

MEASUREMENT RESULTS																
Frequency		Mode		Form Factor	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)
2 506	39750	LTE Band 41(PC3)	Low	Open	B	20	19.40	Rear	10	0	1	0	1:1.58	0.351	24.0	24.0
2 506	39750	LTE Band 41(PC3)	Low	Open	B	20	19.40	Front	10	0	1	0	1:1.58	0.274	25.0	
2 506	39750	LTE Band 41(PC3)	Low	Close	B	20	19.40	Rear	10	0	1	0	1:1.58	0.327	24.3	
2 506	39750	LTE Band 41(PC3)	Low	Close	B	20	19.40	Front	10	0	1	0	1:1.58	0.018	36.9	
2 506	39750	LTE Band 41(PC2)	Low	Open	B	20	19.75	Rear	10	0	1	0	1:2.31	0.404	23.7	23.7
2 506	39750	LTE Band 41(PC2)	Low	Close	B	20	19.75	Rear	10	0	1	0	1:2.31	0.363	24.2	
2 680.0	41490	LTE Band 41(PC3)	High	Open	I	20	20.87	Rear	10	0	1	0	1:1.58	0.478	24.1	24.1
2 680.0	41490	LTE Band 41(PC3)	High	Open	I	20	20.87	Front	10	0	1	0	1:1.58	0.388	25.0	
2 680.0	41490	LTE Band 41(PC3)	High	Close	I	20	20.87	Rear	10	0	1	0	1:1.58	0.203	27.8	
2 680.0	41490	LTE Band 41(PC3)	High	Close	I	20	20.87	Front	10	0	1	0	1:1.58	0.372	25.2	
2 680.0	41490	LTE Band 41(PC2)	High	Open	I	20	21.15	Rear	10	0	1	0	1:2.31	0.451	24.6	24.6
2 680.0	41490	LTE Band 41(PC2)	High	Close	I	20	21.15	Front	10	0	1	0	1:2.31	0.342	25.5	
1 770	132572	LTE Band 66	Low	Open	A	20	19.71	Rear	10	0	1	99	1:1	0.871	20.3	20.3
1 770	132572	LTE Band 66	Low	Open	A	20	19.71	Front	10	0	1	99	1:1	0.535	22.4	
1 745	132322	LTE Band 66	Low	Close	A	20	19.43	Rear	10	0	50	25	1:1	0.324	24.3	
1 770	132572	LTE Band 66	Low	Close	A	20	19.71	Front	10	0	1	99	1:1	0.089	30.2	
1 720	132072	LTE Band 66	Mid	Open	I	20	20.62	Rear	10	0	50	49	1:1	0.629	22.6	22.6
1 745	132322	LTE Band 66	Mid	Open	I	20	20.93	Front	10	0	1	49	1:1	0.352	25.5	
1 745	132322	LTE Band 66	Mid	Close	I	20	20.93	Rear	10	0	1	49	1:1	0.043	34.6	
1 745	132322	LTE Band 66	Mid	Close	I	20	20.93	Front	10	0	1	49	1:1	0.370	25.2	

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 TDD NR bands were measured in FTM Mode.

MEASUREMENT RESULTS																	
Frequency		Mode		Form Factor	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)
836.5	167300	NR Band n5	Mid	Open	A	20	23.85	Rear	DFT-s-OFDM QPSK	0	10	50	28	1:1	0.491	26.9	26.6
836.5	167300	NR Band n5	Mid	Open	A	20	23.85	Front	DFT-s-OFDM QPSK	0	10	50	28	1:1	0.348	28.4	
836.5	167300	NR Band n5	Mid	Close	A	20	23.91	Rear	DFT-s-OFDM QPSK	0	10	1	53	1:1	0.539	26.6	
836.5	167300	NR Band n5	Mid	Close	A	20	23.91	Front	DFT-s-OFDM QPSK	0	10	1	53	1:1	0.293	29.2	
1 882.5	376500	NR Band n25	Mid	Open	A	40	20.53	Rear	DFT-s-OFDM QPSK	0	10	108	0	1:1	0.924	20.9	20.9
1 882.5	376500	NR Band n25	Mid	Open	A	40	20.52	Front	DFT-s-OFDM QPSK	0	10	108	0	1:1	0.615	22.6	
1 882.5	376500	NR Band n25	Mid	Close	A	40	20.52	Rear	DFT-s-OFDM QPSK	0	10	1	214	1:1	0.620	22.6	
1 882.5	376500	NR Band n25	Mid	Close	A	40	20.53	Front	DFT-s-OFDM QPSK	0	10	108	0	1:1	0.034	35.2	
1 882.5	376500	NR Band n25	Mid	Open	I	40	20.97	Rear	DFT-s-OFDM QPSK	0	10	1	214	1:1	0.399	25.0	25.0
1 882.5	376500	NR Band n25	Mid	Open	I	40	20.97	Front	DFT-s-OFDM QPSK	0	10	1	214	1:1	0.341	25.6	
1 882.5	376500	NR Band n25	Mid	Close	I	40	20.99	Rear	DFT-s-OFDM QPSK	0	10	108	0	1:1	0.062	33.1	
1 882.5	376500	NR Band n25	Mid	Close	I	40	20.97	Front	DFT-s-OFDM QPSK	0	10	1	214	1:1	0.211	27.7	

MEASUREMENT RESULTS																		
Frequency		Mode		Form Factor	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)
1 745	349000	NR Band n66	Mid	Open	A	40	20.29	Rear	DFT-s-OFDM QPSK	0	10	1	214	1:1	0.904	20.7	20.7
1 745	349000	NR Band n66	Mid	Open	A	40	20.29	Front	DFT-s-OFDM QPSK	0	10	1	214	1:1	0.566	22.8	
1 745	349000	NR Band n66	Mid	Close	A	40	20.29	Rear	DFT-s-OFDM QPSK	0	10	1	214	1:1	0.333	25.1	
1 745	349000	NR Band n66	Mid	Close	A	40	20.29	Front	DFT-s-OFDM QPSK	0	10	1	214	1:1	0.244	26.4	
1 745	349000	NR Band n66	Mid	Open	I	40	20.60	Rear	CP-OFDM QPSK	0	10	1	1	1:1	0.672	22.3	22.3
1 745	349000	NR Band n66	Mid	Open	I	40	20.50	Front	DFT-s-OFDM QPSK	0	10	1	214	1:1	0.385	24.6	
1 745	349000	NR Band n66	Mid	Close	I	40	20.50	Rear	DFT-s-OFDM QPSK	0	10	1	214	1:1	0.066	32.3	
1 745	349000	NR Band n66	Mid	Close	I	40	20.60	Front	CP-OFDM QPSK	0	10	1	1	1:1	0.148	28.9	
2 592.99	518598	NR Band n41	Mid	Open	I	100	21.5	Rear	DFT-s-OFDM QPSK	0	10	1	1	1:1	0.540	23.2	23.2
2 592.99	518598	NR Band n41	Mid	Open	I	100	21.5	Front	DFT-s-OFDM QPSK	0	10	1	1	1:1	0.597	23.5	
2 592.99	518598	NR Band n41	Mid	Close	I	100	21.5	Rear	DFT-s-OFDM QPSK	0	10	1	1	1:1	0.206	28.1	
2 592.99	518598	NR Band n41	Mid	Close	I	100	21.5	Front	DFT-s-OFDM QPSK	0	10	1	1	1:1	0.525	24.0	
2 592.99	518598	NR n41 SRS2	Mid	Open	B	100	16.78	Rear	CW	0	10	-	-	1:1	0.343	21.4	21.4
2 592.99	518598	NR n41 SRS2	Mid	Open	B	100	16.78	Front	CW	0	10	-	-	1:1	0.217	23.4	
2 592.99	518598	NR n41 SRS2	Mid	Close	B	100	16.78	Rear	CW	0	10	-	-	1:1	0.239	23.0	
2 592.99	518598	NR n41 SRS2	Mid	Close	B	100	16.78	Front	CW	0	10	-	-	1:1	0	N/A	
2 592.99	518598	NR n41 SRS3	Mid	Open	F	100	18.50	Rear	CW	0	10	-	-	1:1	0.214	25.2	25.2
2 592.99	518598	NR n41 SRS3	Mid	Open	F	100	18.50	Front	CW	0	10	-	-	1:1	0.178	26.0	
2 592.99	518598	NR n41 SRS3	Mid	Close	F	100	18.50	Rear	CW	0	10	-	-	1:1	0.035	33.1	
2 592.99	518598	NR n41 SRS3	Mid	Close	F	100	18.50	Front	CW	0	10	-	-	1:1	0.182	25.9	
2 592.99	518598	NR n41 SRS4	Mid	Open	C	100	12.35	Rear	CW	0	10	-	-	1:1	0.072	23.8	23.1
2 592.99	518598	NR n41 SRS4	Mid	Open	C	100	12.35	Front	CW	0	10	-	-	1:1	0.085	23.1	
2 592.99	518598	NR n41 SRS4	Mid	Close	C	100	12.35	Rear	CW	0	10	-	-	1:1	0.052	25.2	
2 592.99	518598	NR n41 SRS4	Mid	Close	C	100	12.35	Front	CW	0	10	-	-	1:1	0.010	32.3	

MEASUREMENT RESULTS																	
Frequency		Mode		Form Factor	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)
3 930	662000	NR Band n77	High	Open	F	100	18.70	Rear	CP-OFDM QPSK	0	10	1	1	1:1	0.327	23.6	22.2
3 930	662000	NR Band n77	High	Open	F	100	18.70	Front	DFT-s-OFDM QPSK	0	10	1	1	1:1	0.107	28.4	
3 930	662000	NR Band n77	High	Close	F	100	18.70	Rear	DFT-s-OFDM QPSK	0	10	1	1	1:1	0.033	33.5	
3 930	662000	NR Band n77	High	Close	F	100	18.70	Front	DFT-s-OFDM QPSK	0	10	1	1	1:1	0.448	22.2	
3 500.01	633334	NR Band n77 DoD	Mid	Open	F	100	18.35	Rear	DFT-s-OFDM QPSK	0	10	1	1	1:1	0.400	22.3	22.3
3 500.01	633334	NR Band n77 DoD	Mid	Close	F	100	18.35	Front	DFT-s-OFDM QPSK	0	10	1	1	1:1	0.243	24.5	
3 750	650000	NR n77 SRS2	Low	Open	I	100	19.48	Rear	CW	0	10	-	-	1:1	0.113	28.9	27.7
3 750	650000	NR n77 SRS2	Low	Open	I	100	19.48	Front	CW	0	10	-	-	1:1	0.052	32.3	
3 750	650000	NR n77 SRS2	Low	Close	I	100	19.48	Rear	CW	0	10	-	-	1:1	0.012	38.7	
3 750	650000	NR n77 SRS2	Low	Close	I	100	19.48	Front	CW	0	10	-	-	1:1	0.152	27.7	
3 500.01	633334	NR n77 DoD SRS2	Mid	Open	I	100	18.39	Rear	CW	0	10	-	-	1:1	0.266	24.1	24.1
3 500.01	633334	NR n77 DoD SRS2	Mid	Close	I	100	18.39	Front	CW	0	10	-	-	1:1	0.237	24.6	
3 930	662000	NR n77 SRS3	High	Open	E	100	19.47	Rear	CW	0	10	-	-	1:1	0.114	28.9	27.2
3 930	662000	NR n77 SRS3	High	Open	E	100	19.47	Front	CW	0	10	-	-	1:1	0.169	27.2	
3 930	662000	NR n77 SRS3	High	Close	E	100	19.47	Rear	CW	0	10	-	-	1:1	0.065	31.3	
3 930	662000	NR n77 SRS3	High	Close	E	100	19.47	Front	CW	0	10	-	-	1:1	0.056	32.0	
3 500.01	633334	NR n77 DoD SRS3	Mid	Open	E	100	18.35	Rear	CW	0	10	-	-	1:1	0.116	27.7	27.7
3 500.01	633334	NR n77 DoD SRS3	Mid	Close	E	100	18.35	Front	CW	0	10	-	-	1:1	0.021	35.1	
3 750	650000	NR n77 SRS4	Low	Open	C	100	11.64	Rear	CW	0	10	-	-	1:1	0.034	26.3	26.3
3 750	650000	NR n77 SRS4	Low	Open	C	100	11.64	Front	CW	0	10	-	-	1:1	0.017	29.3	
3 750	650000	NR n77 SRS4	Low	Close	C	100	11.64	Rear	CW	0	10	-	-	1:1	0.019	28.9	
3 750	650000	NR n77 SRS4	Low	Close	C	100	11.64	Front	CW	0	10	-	-	1:1	0	N/A	
3 500.01	633334	NR n77 DoD SRS4	Mid	Open	C	100	11.13	Rear	CW	0	10	-	-	1:1	0.093	21.4	21.4
3 500.01	633334	NR n77 DoD SRS4	Mid	Close	C	100	11.13	Rear	CW	0	10	-	-	1:1	0.058	23.5	

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

MEASUREMENT RESULTS														
Frequency		Mode/ Band	Band width	Form Factor	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)
2 437	6	802.11b	20	Open	F	1	17.86	Rear	WIFI1	98.8	0.269	1.012	23.6	23.6
2 437	6	802.11b	20	Open	F	1	17.86	Front	WIFI1	98.8	0.231	1.012	24.2	
2 437	6	802.11b	20	Close	F	1	17.86	Rear	WIFI1	98.8	0.016	1.012	35.8	
2 437	6	802.11b	20	Close	F	1	17.86	Front	WIFI1	98.8	0.052	1.012	30.7	
2 437	6	802.11b	20	Open	H	1	17.55	Rear	WIFI2	98.8	0.141	1.012	26.1	26.1
2 437	6	802.11b	20	Open	H	1	17.55	Front	WIFI2	98.8	0.091	1.012	28.0	
2 437	6	802.11b	20	Close	H	1	17.55	Rear	WIFI2	98.8	0.024	1.012	33.7	
2 437	6	802.11b	20	Close	H	1	17.55	Front	WIFI2	98.8	0.042	1.012	31.3	
5 300	60	802.11a	20	Open	F	6	14.64	Rear	WIFI1	94.2	0.214	1.062	21.3	20.6
5 300	60	802.11a	20	Open	F	6	14.64	Front	WIFI1	94.2	0	1.062	N/A	
5 300	60	802.11a	20	Close	F	6	14.64	Rear	WIFI1	94.2	0	1.062	N/A	
5 300	60	802.11a	20	Close	F	6	14.64	Front	WIFI1	94.2	0.255	1.062	20.6	
5 600	120	802.11a	20	Open	H	6	15.95	Rear	WIFI2	94.2	0.283	1.062	21.4	21.4
5 600	120	802.11a	20	Open	H	6	15.95	Front	WIFI2	94.2	0	1.062	N/A	
5 600	120	802.11a	20	Close	H	6	15.95	Rear	WIFI2	94.2	0	1.062	N/A	
5 600	120	802.11a	20	Close	H	6	15.95	Front	WIFI2	94.2	0.248	1.062	22.0	
6 525	115	802.11ax	40	Open	F	MCS0	10.21	Rear	WIFI1	99.7	0.033	1.003	25.0	24.9
6 525	115	802.11ax	40	Open	F	MCS0	10.21	Front	WIFI1	99.7	0.034	1.003	24.9	
6 525	115	802.11ax	40	Close	F	MCS0	10.21	Rear	WIFI1	99.7	0.002	1.003	37.2	
6 525	115	802.11ax	40	Close	F	MCS0	10.21	Front	WIFI1	99.7	0.022	1.003	26.8	
6 525	115	802.11ax	40	Open	H	MCS0	10.23	Rear	WIFI2	99.7	0.021	1.003	27.0	33.2
6 525	115	802.11ax	40	Open	H	MCS0	10.23	Front	WIFI2	99.7	0.015	1.003	28.5	
6 525	115	802.11ax	40	Close	H	MCS0	10.23	Rear	WIFI2	99.7	0.001	1.003	40.2	
6 525	115	802.11ax	40	Close	H	MCS0	10.23	Front	WIFI2	99.7	0.005	1.003	33.2	

MEASUREMENT RESULTS											
Frequency		Mode/ Band	Form Factor	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)
2 402	0	DH5	Open	F	18.82	Rear	Ant 1	0.169	1.010	26.5	26.2
2 402	0	DH5	Open	F	18.82	Front	Ant 1	0.120	1.010	28.0	
2 402	0	DH5	Close	F	18.82	Rear	Ant 1	0.047	1.010	32.1	
2 402	0	DH5	Close	F	18.82	Front	Ant 1	0.184	1.010	26.2	
2 441	39	DH5	Open	H	17.72	Rear	Ant 2	0.039	1.010	31.8	30.7
2 441	39	DH5	Open	H	17.72	Front	Ant 2	0.050	1.010	30.7	
2 441	39	DH5	Close	H	17.72	Rear	Ant 2	0.015	1.010	36.0	
2 441	39	DH5	Close	H	17.72	Front	Ant 2	0.042	1.010	31.5	

Table A-9 DSI = 3 *PLimit* 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		Form Factor	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	GPRS 4Tx	Open	A	19.11	Rear	10	1:2.07	0.125	28.1	26.0
836.6	190	GSM 850	GPRS 4Tx	Open	A	19.11	Front	10	1:2.07	0.092	29.5	
836.6	190	GSM 850	GPRS 4Tx	Open	A	19.11	Left	10	1:2.07	0.026	35.0	
836.6	190	GSM 850	GPRS 4Tx	Open	A	19.11	Right	10	1:2.07	0.087	29.7	
836.6	190	GSM 850	GPRS 4Tx	Open	A	19.11	Bottom	10	1:2.07	0.045	32.6	
836.6	190	GSM 850	GPRS 4Tx	Close	A	19.11	Rear	5	1:2.07	0.205	26.0	
836.6	190	GSM 850	GPRS 4Tx	Close	A	19.11	Front	5	1:2.07	0.071	30.6	
836.6	190	GSM 850	GPRS 4Tx	Close	A	19.11	Left	5	1:2.07	0.072	30.5	
836.6	190	GSM 850	GPRS 4Tx	Close	A	19.11	Right	5	1:2.07	0.024	35.9	
836.6	190	GSM 850	GPRS 4Tx	Close	A	19.11	Bottom	5	1:2.07	0.076	30.3	
1 880.0	661	GSM 1900	GPRS 3Tx	Open	A	14.92	Rear	10	1:2.77	0.292	20.3	18.4
1 880.0	661	GSM 1900	GPRS 3Tx	Open	A	14.92	Front	10	1:2.77	0.186	22.2	
1 880.0	661	GSM 1900	GPRS 3Tx	Open	A	14.92	Left	10	1:2.77	0.043	28.6	
1 880.0	661	GSM 1900	GPRS 3Tx	Open	A	14.92	Right	10	1:2.77	0.025	30.9	
1 880.0	661	GSM 1900	GPRS 3Tx	Open	A	14.92	Bottom	10	1:2.77	0.447	18.4	
1 880.0	661	GSM 1900	GPRS 3Tx	Close	A	14.92	Rear	5	1:2.77	0.423	18.7	
1 880.0	661	GSM 1900	GPRS 3Tx	Close	A	14.92	Front	5	1:2.77	0.081	25.8	
1 880.0	661	GSM 1900	GPRS 3Tx	Close	A	14.92	Left	5	1:2.77	0.022	31.5	
1 880.0	661	GSM 1900	GPRS 3Tx	Close	A	14.92	Right	5	1:2.77	0.0078	35.9	
1 880.0	661	GSM 1900	GPRS 3Tx	Close	A	14.92	Bottom	5	1:2.77	0.540	17.6	

MEASUREMENT RESULTS												
Frequency		Mode/ Band		Form Factor	Ant. No.	Frame Averaged Conducted Power	Test Position	Spacing (mm)	Duty Cycle	Meas. SAR(1g)	Plimit	Minimum Plimit
㎒	Ch.					(dBm)				(W/kg)	(dBm)	(dBm)
836.6	4183	UMTS 850	RMC	Open	A	21.63	Rear	10	1:1	0.226	28.1	24.5
836.6	4183	UMTS 850	RMC	Open	A	21.63	Front	10	1:1	0.113	31.1	
836.6	4183	UMTS 850	RMC	Open	A	21.63	Left	10	1:1	0.132	30.4	
836.6	4183	UMTS 850	RMC	Open	A	21.63	Right	10	1:1	0.210	28.4	
836.6	4183	UMTS 850	RMC	Open	A	21.63	Bottom	10	1:1	0.079	32.7	
836.6	4183	UMTS 850	RMC	Close	A	21.63	Rear	5	1:1	0.514	24.5	
836.6	4183	UMTS 850	RMC	Close	A	21.63	Front	5	1:1	0.116	31.0	
836.6	4183	UMTS 850	RMC	Close	A	21.63	Left	5	1:1	0.202	28.6	
836.6	4183	UMTS 850	RMC	Close	A	21.63	Right	5	1:1	0.072	33.1	
836.6	4183	UMTS 850	RMC	Close	A	21.63	Bottom	5	1:1	0.133	30.4	
1 732.4	1412	UMTS 1700	RMC	Open	A	17.85	Rear	10	1:1	0.418	21.6	19.6
1 732.4	1412	UMTS 1700	RMC	Open	A	17.85	Front	10	1:1	0.261	23.7	
1 732.4	1412	UMTS 1700	RMC	Open	A	17.85	Left	10	1:1	0.064	29.8	
1 732.4	1412	UMTS 1700	RMC	Open	A	17.85	Right	10	1:1	0.038	32.1	
1 732.4	1412	UMTS 1700	RMC	Open	A	17.85	Bottom	10	1:1	0.626	19.9	
1 732.4	1412	UMTS 1700	RMC	Close	A	17.85	Rear	5	1:1	0.527	20.6	
1 732.4	1412	UMTS 1700	RMC	Close	A	17.85	Front	5	1:1	0.292	23.2	
1 732.4	1412	UMTS 1700	RMC	Close	A	17.85	Left	5	1:1	0.100	27.9	
1 732.4	1412	UMTS 1700	RMC	Close	A	17.85	Right	5	1:1	0.027	33.5	
1 732.4	1412	UMTS 1700	RMC	Close	A	17.85	Bottom	5	1:1	0.676	19.6	
1 880	9400	UMTS 1900	RMC	Open	A	15.43	Rear	10	1:1	0.295	20.7	16.7
1 880	9400	UMTS 1900	RMC	Open	A	15.43	Front	10	1:1	0.191	22.6	
1 880	9400	UMTS 1900	RMC	Open	A	15.43	Left	10	1:1	0.059	27.7	
1 880	9400	UMTS 1900	RMC	Open	A	15.43	Right	10	1:1	0.027	31.1	
1 880	9400	UMTS 1900	RMC	Open	A	15.43	Bottom	10	1:1	0.504	18.4	
1 880	9400	UMTS 1900	RMC	Close	A	15.43	Rear	5	1:1	0.544	18.1	
1 880	9400	UMTS 1900	RMC	Close	A	15.43	Front	5	1:1	0.102	25.3	
1 880	9400	UMTS 1900	RMC	Close	A	15.43	Left	5	1:1	0.045	28.9	
1 880	9400	UMTS 1900	RMC	Close	A	15.43	Right	5	1:1	0.019	32.6	
1 880	9400	UMTS 1900	RMC	Close	A	15.43	Bottom	5	1:1	0.750	16.7	

Table A-10 DSI = 3 *PLimit* Calculations – 4G Hotspot SAR

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

MEASUREMENT RESULTS																
Frequency		Mode		Form Factor	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)
707.5	23095	LTE Band 12	Mid	Open	A	10	22.14	Rear	10	0	1	0	1:1	0.218	28.8	25.8
707.5	23095	LTE Band 12	Mid	Open	A	10	22.14	Front	10	0	1	0	1:1	0.145	30.5	
707.5	23095	LTE Band 12	Mid	Open	A	10	22.14	Left	10	0	1	0	1:1	0.160	30.1	
707.5	23095	LTE Band 12	Mid	Open	A	10	22.14	Right	10	0	1	0	1:1	0.186	29.4	
707.5	23095	LTE Band 12	Mid	Open	A	10	22.14	Bottom	10	0	1	0	1:1	0.112	31.6	
707.5	23095	LTE Band 12	Mid	Close	A	10	22.14	Rear	5	0	1	0	1:1	0.433	25.8	
707.5	23095	LTE Band 12	Mid	Close	A	10	22.11	Front	5	0	25	0	1:1	0.115	31.5	
707.5	23095	LTE Band 12	Mid	Close	A	10	22.11	Left	5	0	25	0	1:1	0.251	28.1	
707.5	23095	LTE Band 12	Mid	Close	A	10	22.11	Right	5	0	25	0	1:1	0.064	34.0	
707.5	23095	LTE Band 12	Mid	Close	A	10	22.14	Bottom	5	0	1	0	1:1	0.285	27.6	
782	23230	LTE Band 13	Mid	Open	A	10	22.01	Rear	10	0	1	24	1:1	0.297	27.3	24.9
782	23230	LTE Band 13	Mid	Open	A	10	22.01	Front	10	0	1	24	1:1	0.202	29.0	
782	23230	LTE Band 13	Mid	Open	A	10	22.01	Left	10	0	1	24	1:1	0.09	32.5	
782	23230	LTE Band 13	Mid	Open	A	10	22.01	Right	10	0	1	24	1:1	0.192	29.2	
782	23230	LTE Band 13	Mid	Open	A	10	22.01	Bottom	10	0	1	24	1:1	0.176	29.6	
782	23230	LTE Band 13	Mid	Close	A	10	22.01	Rear	5	0	1	24	1:1	0.516	24.9	
782	23230	LTE Band 13	Mid	Close	A	10	22.01	Front	5	0	1	24	1:1	0.173	29.6	
782	23230	LTE Band 13	Mid	Close	A	10	22.01	Left	5	0	1	24	1:1	0.198	29.0	
782	23230	LTE Band 13	Mid	Close	A	10	22.01	Right	5	0	1	24	1:1	0.083	32.8	
782	23230	LTE Band 13	Mid	Close	A	10	22.01	Bottom	5	0	1	24	1:1	0.406	25.9	

MEASUREMENT RESULTS																
Frequency		Mode		Form Factor	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
㎒	Ch.					㎒	(dBm)			(dB)				(W/kg)	(dBm)	(dBm)
1 905	26590	LTE Band 25	High	Open	A	20	15.50	Rear	10	0	1	99	1:1	0.372	19.8	15.5
1 905	26590	LTE Band 25	High	Open	A	20	15.50	Front	10	0	1	99	1:1	0.240	21.7	
1 905	26590	LTE Band 25	High	Open	A	20	15.50	Left	10	0	1	99	1:1	0.039	29.6	
1 905	26590	LTE Band 25	High	Open	A	20	15.50	Right	10	0	1	99	1:1	0.029	30.9	
1 905	26590	LTE Band 25	High	Open	A	20	15.50	Bottom	10	0	1	99	1:1	0.541	18.2	
1 905	26590	LTE Band 25	High	Close	A	20	15.50	Rear	5	0	1	99	1:1	0.661	17.3	
1 905	26590	LTE Band 25	High	Close	A	20	15.17	Front	5	0	50	49	1:1	0.035	29.7	
1 905	26590	LTE Band 25	High	Close	A	20	15.17	Left	5	0	50	49	1:1	0.055	27.8	
1 905	26590	LTE Band 25	High	Close	A	20	15.50	Right	5	0	1	99	1:1	0.031	30.6	
1 905	26590	LTE Band 25	High	Close	A	20	15.07	Bottom	5	0	1	99	1:1	0.908	15.5	
1 905	26590	LTE Band 25	High	Open	I	20	15.66	Rear	10	0	50	25	1:1	0.200	22.6	16.5
1 905	26590	LTE Band 25	High	Open	I	20	15.66	Front	10	0	50	25	1:1	0.144	24.1	
1 905	26590	LTE Band 25	High	Open	I	20	15.66	Right	10	0	50	25	1:1	0.349	20.2	
1 860	26140	LTE Band 25	Low	Open	I	20	15.86	Top	10	0	1	49	1:1	0.330	20.7	
1 860	26140	LTE Band 25	Low	Close	I	20	15.86	Rear	5	0	1	49	1:1	0.032	30.8	
1 905	26590	LTE Band 25	High	Close	I	20	15.66	Front	5	0	50	25	1:1	0.343	20.3	
1 905	26590	LTE Band 25	High	Close	I	20	15.66	Right	5	0	50	25	1:1	0.831	16.5	
1 905	26590	LTE Band 25	High	Close	I	20	15.66	Top	5	0	50	25	1:1	0.002	42.6	
1 905	26590	LTE Band 25	High	Close	I	20	15.66	Bottom	5	0	50	25	1:1	0.057	28.3	
831.5	26865	LTE Band 26	Mid	Open	A	15	22.48	Rear	10	0	1	36	1:1	0.204	29.4	25.2
831.5	26865	LTE Band 26	Mid	Open	A	15	22.48	Front	10	0	1	36	1:1	0.174	30.1	
831.5	26865	LTE Band 26	Mid	Open	A	15	22.48	Left	10	0	1	36	1:1	0.134	31.2	
831.5	26865	LTE Band 26	Mid	Open	A	15	22.48	Right	10	0	1	36	1:1	0.052	35.3	
831.5	26865	LTE Band 26	Mid	Open	A	15	22.48	Bottom	10	0	1	36	1:1	0.089	33.0	
831.5	26865	LTE Band 26	Mid	Close	A	15	22.48	Rear	5	0	1	36	1:1	0.534	25.2	
831.5	26865	LTE Band 26	Mid	Close	A	15	22.48	Front	5	0	1	36	1:1	0.232	28.8	
831.5	26865	LTE Band 26	Mid	Close	A	15	22.48	Left	5	0	1	36	1:1	0.106	32.2	
831.5	26865	LTE Band 26	Mid	Close	A	15	22.48	Right	5	0	1	36	1:1	0.095	32.7	
831.5	26865	LTE Band 26	Mid	Close	A	15	22.48	Bottom	5	0	1	36	1:1	0.252	28.5	

MEASUREMENT RESULTS																
Frequency		Mode		Form Factor	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
㎒	Ch.					㎒	(dBm)			(dB)				(W/kg)	(dBm)	(dBm)
2 506	39750	LTE Band 41(PC3)	Low	Open	B	20	15.33	Rear	10	0	1	0	1:1.58	0.162	23.2	17.8
2 506	39750	LTE Band 41(PC3)	Low	Open	B	20	15.33	Front	10	0	1	0	1:1.58	0.117	24.7	
2 506	39750	LTE Band 41(PC3)	Low	Open	B	20	15.33	Left	10	0	1	0	1:1.58	0.025	31.4	
2 506	39750	LTE Band 41(PC3)	Low	Open	B	20	15.33	Bottom	10	0	1	0	1:1.58	0.351	19.9	
2 506	39750	LTE Band 41(PC3)	Low	Close	B	20	15.33	Rear	5	0	1	0	1:1.58	0.232	21.7	
2 506	39750	LTE Band 41(PC3)	Low	Close	B	20	15.33	Front	5	0	1	0	1:1.58	0.021	32.1	
2 506	39750	LTE Band 41(PC3)	Low	Close	B	20	15.33	Left	5	0	1	0	1:1.58	0.112	24.8	
2 506	39750	LTE Band 41(PC3)	Low	Close	B	20	15.33	Bottom	5	0	1	0	1:1.58	0.572	17.8	
2 680.0	41490	LTE Band 41(PC2)	High	Open	B	20	15.01	Bottom	10	0	1	0	1:2.31	0.354	19.5	17.7
2 680.0	41490	LTE Band 41(PC2)	High	Close	B	20	15.01	Bottom	5	0	1	0	1:2.31	0.538	17.7	
2 506	39750	LTE Band 41(PC3)	Low	Open	I	20	16.87	Rear	10	0	1	0	1:1.58	0.165	24.7	19.2
2 506	39750	LTE Band 41(PC3)	Low	Open	I	20	16.87	Front	10	0	1	0	1:1.58	0.155	25.0	
2 506	39750	LTE Band 41(PC3)	Low	Open	I	20	16.87	Right	10	0	1	0	1:1.58	0.172	24.5	
2 506	39750	LTE Band 41(PC3)	Low	Open	I	20	16.87	Top	10	0	1	0	1:1.58	0.021	33.7	
2 506	39750	LTE Band 41(PC3)	Low	Close	I	20	16.87	Rear	5	0	1	0	1:1.58	0.106	26.6	
2 506	39750	LTE Band 41(PC3)	Low	Close	I	20	16.87	Front	5	0	1	0	1:1.58	0.355	21.4	
2 506	39750	LTE Band 41(PC3)	Low	Close	I	20	16.87	Right	5	0	1	0	1:1.58	0.582	19.2	
2 506	39750	LTE Band 41(PC3)	Low	Close	I	20	16.87	Top	5	0	1	0	1:1.58	0.027	32.6	
2 506	39750	LTE Band 41(PC3)	Low	Close	I	20	16.87	Bottom	5	0	1	0	1:1.58	0.072	28.3	
2 680.0	41490	LTE Band 41(PC2)	High	Open	I	20	20.50	Right	10	0	1	0	1:2.31	0.221	27.1	23.4
2 680.0	41490	LTE Band 41(PC2)	High	Close	I	20	20.50	Right	5	0	1	0	1:2.31	0.518	23.4	

MEASUREMENT RESULTS																
Frequency		Mode		Form Factor	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)
1 770	132572	LTE Band 66	High	Open	A	20	16.81	Rear	10	0	1	0	1:1	0.443	20.3	18.4
1 770	132572	LTE Band 66	High	Open	A	20	16.81	Front	10	0	1	0	1:1	0.289	22.2	
1 770	132572	LTE Band 66	High	Open	A	20	16.81	Left	10	0	1	0	1:1	0.060	29.0	
1 770	132572	LTE Band 66	High	Open	A	20	16.81	Right	10	0	1	0	1:1	0.043	30.5	
1 770	132572	LTE Band 66	High	Open	A	20	16.81	Bottom	10	0	1	0	1:1	0.687	18.4	
1 770	132572	LTE Band 66	High	Close	A	20	16.81	Rear	5	0	1	0	1:1	0.534	19.5	
1 770	132572	LTE Band 66	High	Close	A	20	16.81	Front	5	0	1	0	1:1	0.106	26.6	
1 770	132572	LTE Band 66	High	Close	A	20	16.81	Left	5	0	1	0	1:1	0.101	26.8	
1 770	132572	LTE Band 66	High	Close	A	20	16.81	Right	5	0	1	0	1:1	0.019	34.0	
1 770	132572	LTE Band 66	High	Close	A	20	16.81	Bottom	5	0	1	0	1:1	0.669	18.6	
1 720	132072	LTE Band 66	Low	Open	I	20	16.56	Rear	10	0	1	49	1:1	0.229	23.0	17.5
1 720	132072	LTE Band 66	Low	Open	I	20	16.56	Front	10	0	1	49	1:1	0.224	23.1	
1 770	132572	LTE Band 66	High	Open	I	20	16.39	Right	10	0	50	49	1:1	0.766	17.5	
1 720	132072	LTE Band 66	Low	Open	I	20	16.40	Top	10	0	50	49	1:1	0.030	31.6	
1 720	132072	LTE Band 66	Low	Close	I	20	16.41	Rear	5	0	50	49	1:1	0.021	33.2	
1 720	132072	LTE Band 66	Low	Close	I	20	16.41	Front	5	0	50	49	1:1	0.451	19.9	
1 770	132572	LTE Band 66	High	Close	I	20	16.49	Right	5	0	1	99	1:1	0.946	16.7	
1 720	132072	LTE Band 66	Low	Close	I	20	16.56	Top	5	0	1	49	1:1	0.010	36.6	
1 720	132072	LTE Band 66	Low	Close	I	20	16.41	Bottom	5	0	50	49	1:1	0.026	32.3	

Table A-11 DSI = 3 *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 TDD NR bands were measured in FTM Mode.

MEASUREMENT RESULTS																	
Frequency		Mode		Form Factor	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)
836.5	167300	NR Band n5	Mid	Open	A	20	22.61	Rear	DFT-s OFDM QPSK	0	10	50	28	1:1	0.348	27.2	25.5
836.5	167300	NR Band n5	Mid	Open	A	20	22.61	Front	DFT-s OFDM QPSK	0	10	50	28	1:1	0.271	28.3	
836.5	167300	NR Band n5	Mid	Open	A	20	22.61	Left	DFT-s OFDM QPSK	0	10	50	28	1:1	0.169	30.3	
836.5	167300	NR Band n5	Mid	Open	A	20	22.61	Right	DFT-s OFDM QPSK	0	10	50	28	1:1	0.239	28.8	
836.5	167300	NR Band n5	Mid	Open	A	20	22.69	Bottom	DFT-s OFDM QPSK	0	10	1	53	1:1	0.122	31.8	
836.5	167300	NR Band n5	Mid	Close	A	20	22.61	Rear	DFT-s OFDM QPSK	0	5	50	28	1:1	0.514	25.5	
836.5	167300	NR Band n5	Mid	Close	A	20	22.69	Front	DFT-s OFDM QPSK	0	5	1	53	1:1	0.287	28.1	
836.5	167300	NR Band n5	Mid	Close	A	20	22.61	Left	DFT-s OFDM QPSK	0	5	50	28	1:1	0.266	28.4	
836.5	167300	NR Band n5	Mid	Close	A	20	22.61	Right	DFT-s OFDM QPSK	0	5	50	28	1:1	0.141	31.1	
836.5	167300	NR Band n5	Mid	Close	A	20	22.61	Bottom	DFT-s OFDM QPSK	0	5	50	28	1:1	0.243	28.8	
1882.5	376500	NR Band n25	Mid	Open	A	40	15.38	Rear	DFT-s OFDM QPSK	0	10	108	54	1:1	0.313	20.4	18.8
1882.5	376500	NR Band n25	Mid	Open	A	40	15.32	Front	DFT-s OFDM QPSK	0	10	1	108	1:1	0.213	22.0	
1882.5	376500	NR Band n25	Mid	Open	A	40	15.32	Left	DFT-s OFDM QPSK	0	10	1	108	1:1	0.056	27.8	
1882.5	376500	NR Band n25	Mid	Open	A	40	15.32	Right	DFT-s OFDM QPSK	0	10	1	108	1:1	0.017	33.0	
1882.5	376500	NR Band n25	Mid	Open	A	40	15.38	Bottom	DFT-s OFDM QPSK	0	10	108	54	1:1	0.452	18.8	
1882.5	376500	NR Band n25	Mid	Close	A	40	15.38	Rear	DFT-s OFDM QPSK	0	5	108	54	1:1	0.429	23.0	
1882.5	376500	NR Band n25	Mid	Close	A	40	15.32	Front	DFT-s OFDM QPSK	0	5	1	108	1:1	0.032	34.2	
1882.5	376500	NR Band n25	Mid	Close	A	40	15.32	Left	DFT-s OFDM QPSK	0	5	1	108	1:1	0.032	34.2	
1882.5	376500	NR Band n25	Mid	Close	A	40	15.32	Right	DFT-s OFDM QPSK	0	5	1	108	1:1	0.170	27.0	
1882.5	376500	NR Band n25	Mid	Close	A	40	15.38	Bottom	DFT-s OFDM QPSK	0	5	108	54	1:1	0.754	20.6	
1882.5	376500	NR Band n25	Mid	Open	I	40	16.19	Rear	DFT-s OFDM QPSK	0	10	1	214	1:1	0.126	25.2	18.0
1882.5	376500	NR Band n25	Mid	Open	I	40	16.19	Front	DFT-s OFDM QPSK	0	10	1	214	1:1	0.108	25.9	
1882.5	376500	NR Band n25	Mid	Open	I	40	16.37	Right	CP OFDM QPSK	0	10	1	1	1:1	0.368	20.7	
1882.5	376500	NR Band n25	Mid	Open	I	40	16.08	Top	DFT-s OFDM QPSK	0	10	108	108	1:1	0.042	29.8	
1882.5	376500	NR Band n25	Mid	Close	I	40	16.19	Rear	DFT-s OFDM QPSK	0	5	1	214	1:1	0.025	32.2	
1882.5	376500	NR Band n25	Mid	Close	I	40	16.19	Front	DFT-s OFDM QPSK	0	5	1	214	1:1	0.212	22.9	
1882.5	376500	NR Band n25	Mid	Close	I	40	16.19	Right	DFT-s OFDM QPSK	0	5	1	214	1:1	0.661	18.0	
1882.5	376500	NR Band n25	Mid	Close	I	40	16.19	Top	DFT-s OFDM QPSK	0	5	1	214	1:1	0.010	36.2	
1882.5	376500	NR Band n25	Mid	Close	I	40	16.08	Bottom	DFT-s OFDM QPSK	0	5	108	108	1:1	0.049	29.2	

MEASUREMENT RESULTS																		
Frequency		Mode		Form Factor	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)
2 592.99	518598	NR Band n41	Mid	Open	I	100	17.06	Rear	DFT-s-OFDM QPSK	0	10	1	1	1:1	0.302	22.3	18.1
2 592.99	518598	NR Band n41	Mid	Open	I	100	17.06	Front	DFT-s-OFDM QPSK	0	10	1	1	1:1	0.197	24.1	
2 592.99	518598	NR Band n41	Mid	Open	I	100	17.06	Right	DFT-s-OFDM QPSK	0	10	1	1	1:1	0.349	21.6	
2 592.99	518598	NR Band n41	Mid	Open	I	100	17.06	Top	DFT-s-OFDM QPSK	0	10	1	1	1:1	0.066	28.9	
2 592.99	518598	NR Band n41	Mid	Close	I	100	17.06	Rear	DFT-s-OFDM QPSK	0	5	1	1	1:1	0.139	25.6	
2 592.99	518598	NR Band n41	Mid	Close	I	100	17.06	Front	DFT-s-OFDM QPSK	0	5	1	1	1:1	0.681	18.7	
2 592.99	518598	NR Band n41	Mid	Close	I	100	17.06	Right	DFT-s-OFDM QPSK	0	5	1	1	1:1	0.787	18.1	
2 592.99	518598	NR Band n41	Mid	Close	I	100	17.06	Top	DFT-s-OFDM QPSK	0	5	1	1	1:1	0.025	33.1	
2 592.99	518598	NR Band n41	Mid	Close	I	100	17.06	Bottom	DFT-s-OFDM QPSK	0	5	1	1	1:1	0.077	28.2	
2 592.99	518598	NR n41 SRS2	Mid	Open	B	100	14.11	Rear	CW	0	10	-	-	1:1	0.159	22.1	16.5
2 592.99	518598	NR n41 SRS2	Mid	Open	B	100	14.11	Front	CW	0	10	-	-	1:1	0.107	23.8	
2 592.99	518598	NR n41 SRS2	Mid	Open	B	100	14.11	Left	CW	0	10	-	-	1:1	0.032	29.1	
2 592.99	518598	NR n41 SRS2	Mid	Open	B	100	14.11	Bottom	CW	0	10	-	-	1:1	0.326	19.0	
2 592.99	518598	NR n41 SRS2	Mid	Close	B	100	14.11	Rear	CW	0	5	-	-	1:1	0.290	19.5	
2 592.99	518598	NR n41 SRS2	Mid	Close	B	100	14.11	Front	CW	0	5	-	-	1:1	0	N/A	
2 592.99	518598	NR n41 SRS2	Mid	Close	B	100	14.11	Left	CW	0	5	-	-	1:1	0.106	23.9	
2 592.99	518598	NR n41 SRS2	Mid	Close	B	100	14.11	Bottom	CW	0	5	-	-	1:1	0.577	16.5	

MEASUREMENT RESULTS																		
Frequency		Mode		Form Factor	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)
2 592.99	518598	NR n41 SRS3	Mid	Open	F	100	16.06	Rear	CW	0	10	-	-	1:1	0.116	25.4	21.0
2 592.99	518598	NR n41 SRS3	Mid	Open	F	100	16.06	Front	CW	0	10	-	-	1:1	0.095	26.3	
2 592.99	518598	NR n41 SRS3	Mid	Open	F	100	16.06	Left	CW	0	10	-	-	1:1	0.205	22.9	
2 592.99	518598	NR n41 SRS3	Mid	Open	F	100	16.06	Top	CW	0	10	-	-	1:1	0.041	29.9	
2 592.99	518598	NR n41 SRS3	Mid	Close	F	100	16.06	Rear	CW	0	5	-	-	1:1	0.024	32.3	
2 592.99	518598	NR n41 SRS3	Mid	Close	F	100	16.06	Front	CW	0	5	-	-	1:1	0.242	22.2	
2 592.99	518598	NR n41 SRS3	Mid	Close	F	100	16.06	Left	CW	0	5	-	-	1:1	0.322	21.0	
2 592.99	518598	NR n41 SRS3	Mid	Close	F	100	16.06	Bottom	CW	0	5	-	-	1:1	0.099	26.1	
2 592.99	518598	NR n41 SRS4	Mid	Open	C	100	9.84	Rear	CW	0	10	-	-	1:1	0.024	26.0	21.5
2 592.99	518598	NR n41 SRS4	Mid	Open	C	100	9.84	Front	CW	0	10	-	-	1:1	0.026	25.7	
2 592.99	518598	NR n41 SRS4	Mid	Open	C	100	9.84	Left	CW	0	10	-	-	1:1	0.054	22.5	
2 592.99	518598	NR n41 SRS4	Mid	Open	C	100	9.84	Bottom	CW	0	10	-	-	1:1	0.017	27.5	
2 592.99	518598	NR n41 SRS4	Mid	Close	C	100	9.84	Rear	CW	0	5	-	-	1:1	0.074	23.7	
2 592.99	518598	NR n41 SRS4	Mid	Close	C	100	9.84	Front	CW	0	5	-	-	1:1	0.019	29.6	
2 592.99	518598	NR n41 SRS4	Mid	Close	C	100	9.84	Left	CW	0	5	-	-	1:1	0.123	21.5	
2 592.99	518598	NR n41 SRS4	Mid	Close	C	100	9.84	Top	CW	0	5	-	-	1:1	0	N/A	
2 592.99	518598	NR n41 SRS4	Mid	Close	C	100	9.84	Bottom	CW	0	5	-	-	1:1	0.006	34.6	

MEASUREMENT RESULTS																		
Frequency		Mode		Form Factor	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)
1 745	349000	NR Band n66	Mid	Open	A	40	17.25	Rear	DFT-s-OFDM QPSK	0	10	1	214	1:1	0.494	20.3	18.7
1 745	349000	NR Band n66	Mid	Open	A	40	17.25	Front	DFT-s-OFDM QPSK	0	10	1	214	1:1	0.304	22.4	
1 745	349000	NR Band n66	Mid	Open	A	40	17.16	Left	DFT-s-OFDM QPSK	0	10	108	108	1:1	0.050	30.2	
1 745	349000	NR Band n66	Mid	Open	A	40	17.25	Right	DFT-s-OFDM QPSK	0	10	1	214	1:1	0.034	31.9	
1 745	349000	NR Band n66	Mid	Open	A	40	17.25	Bottom	DFT-s-OFDM QPSK	0	10	1	214	1:1	0.617	19.3	
1 745	349000	NR Band n66	Mid	Close	A	40	17.25	Rear	DFT-s-OFDM QPSK	0	5	1	214	1:1	0.460	20.6	
1 745	349000	NR Band n66	Mid	Close	A	40	17.25	Front	DFT-s-OFDM QPSK	0	5	1	214	1:1	0.117	26.6	
1 745	349000	NR Band n66	Mid	Close	A	40	17.25	Left	DFT-s-OFDM QPSK	0	5	1	214	1:1	0.093	27.6	
1 745	349000	NR Band n66	Mid	Close	A	40	17.16	Right	DFT-s-OFDM QPSK	0	5	108	108	1:1	0.110	26.7	
1 745	349000	NR Band n66	Mid	Close	A	40	17.02	Bottom	CP-OFDM QPSK	0	5	1	1	1:1	0.680	18.7	
1 745	349000	NR Band n66	Mid	Open	I	40	16.62	Rear	DFT-s-OFDM QPSK	0	10	1	214	1:1	0.154	24.7	18.8
1 745	349000	NR Band n66	Mid	Open	I	40	16.62	Front	DFT-s-OFDM QPSK	0	10	1	214	1:1	0.214	23.3	
1 745	349000	NR Band n66	Mid	Open	I	40	16.62	Right	DFT-s-OFDM QPSK	0	10	1	214	1:1	0.499	19.6	
1 745	349000	NR Band n66	Mid	Open	I	40	16.62	Top	DFT-s-OFDM QPSK	0	10	1	214	1:1	0.058	29.0	
1 745	349000	NR Band n66	Mid	Close	I	40	16.62	Rear	DFT-s-OFDM QPSK	0	5	1	214	1:1	0.024	32.8	
1 745	349000	NR Band n66	Mid	Close	I	40	16.72	Front	DFT-s-OFDM QPSK	0	5	108	54	1:1	0.198	23.8	
1 745	349000	NR Band n66	Mid	Close	I	40	16.62	Right	DFT-s-OFDM QPSK	0	5	1	214	1:1	0.607	18.8	
1 745	349000	NR Band n66	Mid	Close	I	40	16.62	Top	DFT-s-OFDM QPSK	0	5	1	214	1:1	0.007	38.2	
1 745	349000	NR Band n66	Mid	Close	I	40	16.62	Bottom	DFT-s-OFDM QPSK	0	5	1	214	1:1	0.055	29.2	

MEASUREMENT RESULTS

Frequency		Mode		Form Factor	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)
3 930	662000	NR Band n77	High	Open	F	100	16.26	Rear	DFT-s-OFDM QPSK	0	10	1	1	1:1	0.180	23.7	16.9
3 930	662000	NR Band n77	High	Open	F	100	16.26	Front	DFT-s-OFDM QPSK	0	10	1	1	1:1	0.065	28.1	
3 930	662000	NR Band n77	High	Open	F	100	16.26	Left	DFT-s-OFDM QPSK	0	10	1	1	1:1	0.186	23.6	
3 930	662000	NR Band n77	High	Open	F	100	16.26	Top	DFT-s-OFDM QPSK	0	10	1	1	1:1	0.157	24.3	
3 930	662000	NR Band n77	High	Close	F	100	16.26	Rear	DFT-s-OFDM QPSK	0	5	1	1	1:1	0.026	32.1	
3 930	662000	NR Band n77	High	Close	F	100	16.26	Front	DFT-s-OFDM QPSK	0	5	1	1	1:1	0.612	18.4	
3 930	662000	NR Band n77	High	Close	F	100	16.26	Left	DFT-s-OFDM QPSK	0	5	1	1	1:1	0.86	16.9	
3 930	662000	NR Band n77	High	Close	F	100	16.26	Bottom	DFT-s-OFDM QPSK	0	5	1	1	1:1	0.242	22.4	
3 500.01	633334	NR Band n77	Mid	Open	F	100	15.67	Left	DFT-s-OFDM QPSK	0	10	1	1	1:1	0.237	21.9	18.7
3 500.01	633334	NR Band n77	Mid	Close	F	100	15.67	Left	DFT-s-OFDM QPSK	0	5	1	1	1:1	0.501	18.7	
3 750	650000	NR n77 SRS2	Low	Open	I	100	16.48	Rear	CW	0	10	-	-	1:1	0.060	28.7	19.1
3 750	650000	NR n77 SRS2	Low	Open	I	100	16.48	Front	CW	0	10	-	-	1:1	0.039	30.6	
3 750	650000	NR n77 SRS2	Low	Open	I	100	16.48	Right	CW	0	10	-	-	1:1	0.113	25.9	
3 750	650000	NR n77 SRS2	Low	Open	I	100	16.48	Top	CW	0	10	-	-	1:1	0.002	43.5	
3 750	650000	NR n77 SRS2	Low	Close	I	100	16.48	Rear	CW	0	5	-	-	1:1	0.014	35.0	
3 750	650000	NR n77 SRS2	Low	Close	I	100	16.48	Front	CW	0	5	-	-	1:1	0.308	21.6	
3 750	650000	NR n77 SRS2	Low	Close	I	100	16.48	Right	CW	0	5	-	-	1:1	0.544	19.1	
3 750	650000	NR n77 SRS2	Low	Close	I	100	16.48	Top	CW	0	5	-	-	1:1	0.391	20.6	
3 750	650000	NR n77 SRS2	Low	Close	I	100	16.48	Bottom	CW	0	5	-	-	1:1	0.021	33.3	
3 500.01	633334	NR n77 DoD SRS2	Mid	Open	I	100	15.72	Right	CW	0	10	-	-	1:1	0.286	21.2	17.4
3 500.01	633334	NR n77 DoD SRS2	Mid	Close	I	100	15.72	Right	CW	0	5	-	-	1:1	0.782	17.4	
3 930	662000	NR n77 SRS3	High	Open	E	100	16.47	Rear	CW	0	10	-	-	1:1	0.052	29.3	22.4
3 930	662000	NR n77 SRS3	High	Open	E	100	16.47	Front	CW	0	10	-	-	1:1	0.083	27.3	
3 930	662000	NR n77 SRS3	High	Open	E	100	16.47	Left	CW	0	10	-	-	1:1	0.162	24.4	
3 930	662000	NR n77 SRS3	High	Open	E	100	16.47	Top	CW	0	10	-	-	1:1	0.004	40.4	
3 930	662000	NR n77 SRS3	High	Close	E	100	16.47	Rear	CW	0	5	-	-	1:1	0.098	26.6	
3 930	662000	NR n77 SRS3	High	Close	E	100	16.47	Front	CW	0	5	-	-	1:1	0.126	25.5	
3 930	662000	NR n77 SRS3	High	Close	E	100	16.47	Left	CW	0	5	-	-	1:1	0.254	22.4	
3 930	662000	NR n77 SRS3	High	Close	E	100	16.47	Top	CW	0	5	-	-	1:1	0.001	46.5	
3 930	662000	NR n77 SRS3	High	Close	E	100	16.47	Bottom	CW	0	5	-	-	1:1	0.013	35.3	
3 500.01	633334	NR n77 DoD SRS3	Mid	Open	E	100	15.86	Left	CW	0	10	-	-	1:1	0.092	26.2	21.7
3 500.01	633334	NR n77 DoD SRS3	Mid	Close	E	100	15.86	Left	CW	0	5	-	-	1:1	0.258	21.7	
3 750	650000	NR n77 SRS4	Low	Open	C	100	8.61	Rear	CW	0	10	-	-	1:1	0.023	25.0	16.7
3 750	650000	NR n77 SRS4	Low	Open	C	100	8.61	Front	CW	0	10	-	-	1:1	0.011	28.2	
3 750	650000	NR n77 SRS4	Low	Open	C	100	8.61	Left	CW	0	10	-	-	1:1	0.067	20.3	
3 750	650000	NR n77 SRS4	Low	Open	C	100	8.61	Top	CW	0	10	-	-	1:1	0.011	28.2	
3 750	650000	NR n77 SRS4	Low	Close	C	100	8.61	Rear	CW	0	5	-	-	1:1	0.07	20.2	
3 750	650000	NR n77 SRS4	Low	Close	C	100	8.61	Front	CW	0	5	-	-	1:1	0.0038	32.6	
3 750	650000	NR n77 SRS4	Low	Close	C	100	8.61	Left	CW	0	5	-	-	1:1	0.157	16.7	
3 750	650000	NR n77 SRS4	Low	Close	C	100	8.61	Top	CW	0	5	-	-	1:1	0.0036	32.6	
3 750	650000	NR n77 SRS4	Low	Close	C	100	8.61	Bottom	CW	0	5	-	-	1:1	0.009	29.1	
3 500.01	633334	NR n77 DoD SRS4	Mid	Open	C	100	8.38	Left	CW	0	10	-	-	1:1	0.095	18.6	14.9
3 500.01	633334	NR n77 DoD SRS4	Mid	Close	C	100	8.38	Left	CW	0	5	-	-	1:1	0.225	14.9	

Table A-12 DSI = 3 *PLimit* Calculations – WLAN Hotspot SAR

MEASUREMENT RESULTS														
Frequency		Mode/ Band	Band width	Form Factor	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)
2 412	1	802.11b	20	Open	F	1M	17.86	Rear	WIFI1	98.8	0.269	1.012	23.6	21.6
2 412	1	802.11b	20	Open	F	1M	17.86	Front	WIFI1	98.8	0.231	1.012	24.2	
2 412	1	802.11b	20	Open	F	1M	17.86	Left	WIFI1	98.8	0.191	1.012	25.0	
2 412	1	802.11b	20	Open	F	1M	17.86	Top	WIFI1	98.8	0.089	1.012	28.4	
2 412	1	802.11b	20	Close	F	1M	17.86	Rear	WIFI1	98.8	0.156	1.012	25.9	
2 412	1	802.11b	20	Close	F	1M	17.86	Front	WIFI1	98.8	0.324	1.012	22.8	
2 412	1	802.11b	20	Close	F	1M	17.86	Left	WIFI1	98.8	0.425	1.012	21.6	
2 412	1	802.11b	20	Close	F	1M	17.86	Bottom	WIFI1	98.8	0.135	1.012	26.6	
2 437	6	802.11b	20	Open	H	1M	17.55	Rear	WIFI2	98.8	0.141	1.012	26.1	26.1
2 437	6	802.11b	20	Open	H	1M	17.55	Front	WIFI2	98.8	0.091	1.012	28.0	
2 437	6	802.11b	20	Open	H	1M	17.55	Right	WIFI2	98.8	0.00558	1.012	39.8	
2 437	6	802.11b	20	Open	H	1M	17.55	Top	WIFI2	98.8	0.058	1.012	29.9	
2 437	6	802.11b	20	Close	H	1M	17.55	Rear	WIFI2	98.8	0.103	1.012	27.4	
2 437	6	802.11b	20	Close	H	1M	17.55	Front	WIFI2	98.8	0.109	1.012	27.2	
2 437	6	802.11b	20	Close	H	1M	17.55	Right	WIFI2	98.8	0.056	1.012	30.1	
2 437	6	802.11b	20	Close	H	1M	17.55	Bottom	WIFI2	98.8	0.092	1.012	27.9	
5 300	60	802.11a	20	Open	F	6M	15.31	Rear	WIFI1	94.2	0.146	1.062	23.7	19.7
5 300	60	802.11a	20	Open	F	6M	15.31	Front	WIFI1	94.2	0	1.062	N/A	
5 300	60	802.11a	20	Open	F	6M	15.31	Left	WIFI1	94.2	0.305	1.062	20.5	
5 300	60	802.11a	20	Open	F	6M	15.31	Top	WIFI1	94.2	0	1.062	N/A	
5 300	60	802.11a	20	Close	F	6M	15.31	Rear	WIFI1	94.2	0	1.062	N/A	
5 300	60	802.11a	20	Close	F	6M	15.31	Front	WIFI1	94.2	0.221	1.062	21.9	
5 300	60	802.11a	20	Close	F	6M	15.31	Left	WIFI1	94.2	0.368	1.062	19.7	
5 300	60	802.11a	20	Close	F	6M	15.31	Bottom	WIFI1	94.2	0	1.062	N/A	
5 300	60	802.11a	20	Open	H	6M	15.11	Rear	WIFI2	94.2	0.133	1.062	23.9	20.4
5 300	60	802.11a	20	Open	H	6M	15.11	Front	WIFI2	94.2	0	1.062	N/A	
5 300	60	802.11a	20	Open	H	6M	15.11	Right	WIFI2	94.2	0	1.062	N/A	
5 300	60	802.11a	20	Open	H	6M	15.11	Top	WIFI2	94.2	0	1.062	N/A	
5 300	60	802.11a	20	Close	H	6M	15.11	Rear	WIFI2	94.2	0	1.062	N/A	
5 300	60	802.11a	20	Close	H	6M	15.11	Front	WIFI2	94.2	0.297	1.062	20.4	
5 300	60	802.11a	20	Close	H	6M	15.11	Right	WIFI2	94.2	0	1.062	N/A	
5 300	60	802.11a	20	Close	H	6M	15.11	Bottom	WIFI2	94.2	0	1.062	N/A	

MEASUREMENT RESULTS											
Frequency		Mode/ Band	Form Factor	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)
2 402	0	DH5	Open	F	18.82	Rear	Ant 1	0.169	1.042	26.5	21.0
2 402	0	DH5	Open	F	18.82	Front	Ant 1	0.189	1.042	26.1	
2 402	0	DH5	Open	F	18.82	Left	Ant 1	0.266	1.042	24.6	
2 402	0	DH5	Open	F	18.82	Top	Ant 1	0.064	1.042	30.8	
2 402	0	DH5	Close	F	18.82	Rear	Ant 1	0.056	1.042	31.3	
2 402	0	DH5	Close	F	18.82	Front	Ant 1	0.61	1.042	21.0	
2 402	0	DH5	Close	F	18.82	Left	Ant 1	0.603	1.042	21.0	
2 402	0	DH5	Close	F	18.82	Bottom	Ant 1	0.14	1.042	27.4	

Table A-13 DSI = 0 *PLimit* 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		Form Factor	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	190	GSM 850	GPRS 4Tx	Open	A	23.09	Back	0	1:2.07	0.483	30.2	30.1
836.6	190	GSM 850	GPRS 4Tx	Open	A	23.09	Front	0	1:2.07	0.498	30.1	
836.6	190	GSM 850	GPRS 4Tx	Open	A	23.09	Left	0	1:2.07	0.407	31.0	
836.6	190	GSM 850	GPRS 4Tx	Open	A	23.09	Right	0	1:2.07	0.388	31.2	
836.6	190	GSM 850	GPRS 4Tx	Open	A	23.09	Bottom	0	1:2.07	0.354	31.6	
1 880.0	661	GSM 1900	GPRS 4Tx	Open	A	16.69	Back	0	1:2.07	0.496	23.7	22.6
1 880.0	661	GSM 1900	GPRS 4Tx	Open	A	16.69	Front	0	1:2.07	0.648	22.6	
1 880.0	661	GSM 1900	GPRS 4Tx	Open	A	16.69	Left	0	1:2.07	0.180	28.1	
1 880.0	661	GSM 1900	GPRS 4Tx	Open	A	16.69	Right	0	1:2.07	0.077	31.8	
1 880.0	661	GSM 1900	GPRS 4Tx	Open	A	16.69	Bottom	0	1:2.07	0.199	27.7	
836.6	4183	UMTS 850	RMC	Open	A	23.64	Back	0	1:1	0.640	29.6	29.4
836.6	4183	UMTS 850	RMC	Open	A	23.64	Front	0	1:1	0.661	29.4	
836.6	4183	UMTS 850	RMC	Open	A	23.64	Left	0	1:1	0.574	30.0	
836.6	4183	UMTS 850	RMC	Open	A	23.64	Right	0	1:1	0.520	30.5	
836.6	4183	UMTS 850	RMC	Open	A	23.64	Bottom	0	1:1	0.481	30.8	
1 732.4	1412	UMTS 1700	RMC	Open	A	20.61	Back	0	1:1	23.8	20.4	20.4
1 732.4	1412	UMTS 1700	RMC	Open	A	20.61	Front	0	1:1	1.92	21.4	
1 732.4	1412	UMTS 1700	RMC	Open	A	20.61	Left	0	1:1	0.129	33.1	
1 732.4	1412	UMTS 1700	RMC	Open	A	20.61	Right	0	1:1	0.075	35.4	
1 732.4	1412	UMTS 1700	RMC	Open	A	20.61	Bottom	0	1:1	1.32	23.0	
1 880	9400	UMTS 1900	RMC	Open	A	20.03	Back	0	1:1	1.61	21.9	21.9
1 880	9400	UMTS 1900	RMC	Open	A	20.03	Front	0	1:1	1.54	22.1	
1 880	9400	UMTS 1900	RMC	Open	A	20.03	Left	0	1:1	0.397	28.0	
1 880	9400	UMTS 1900	RMC	Open	A	20.03	Right	0	1:1	0.164	31.9	
1 880	9400	UMTS 1900	RMC	Open	A	20.03	Bottom	0	1:1	0.830	24.8	

Table A-14 DSI = 0 *PLimit* Calculations – 4G Phablet SAR

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

MEASUREMENT RESULTS																
Frequency		Mode		Form Factor	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)
707.5	23095	LTE Band 12	Mid	Open	A	10	22.14	Rear	0	0	1	0	1:1	0.449	29.6	26.8
707.5	23095	LTE Band 12	Mid	Open	A	10	22.14	Front	0	0	1	0	1:1	0.366	30.5	
707.5	23095	LTE Band 12	Mid	Open	A	10	22.14	Left	0	0	1	0	1:1	0.860	26.8	
707.5	23095	LTE Band 12	Mid	Open	A	10	22.14	Right	0	0	1	0	1:1	0.261	32.0	
707.5	23095	LTE Band 12	Mid	Open	A	10	22.14	Bottom	0	0	1	0	1:1	0.290	31.5	
782	23230	LTE Band 13	Mid	Open	A	10	22.01	Rear	0	0	1	24	1:1	0.571	28.4	28.4
782	23230	LTE Band 13	Mid	Open	A	10	22.01	Front	0	0	1	24	1:1	0.427	29.7	
782	23230	LTE Band 13	Mid	Open	A	10	22.01	Left	0	0	1	24	1:1	0.525	28.8	
782	23230	LTE Band 13	Mid	Open	A	10	22.01	Right	0	0	1	24	1:1	0.367	30.3	
782	23230	LTE Band 13	Mid	Open	A	10	22.01	Bottom	0	0	1	24	1:1	0.363	30.4	
1 905	26590	LTE Band 25	High	Open	A	20	20.33	Rear	0	0	50	49	1:1	2.04	21.2	21.2
1 860	26140	LTE Band 25	Low	Open	A	20	20.66	Front	0	0	1	99	1:1	0.615	26.8	
1 860	26140	LTE Band 25	Low	Open	A	20	20.66	Left	0	0	1	99	1:1	0.258	30.5	
1 860	26140	LTE Band 25	Low	Open	A	20	20.66	Right	0	0	1	99	1:1	0.200	31.6	
1 860	26140	LTE Band 25	Low	Open	A	20	20.66	Bottom	0	0	1	99	1:1	0.132	33.4	
1 905	26590	LTE Band 25	High	Open	I	20	20.72	Rear	0	0	1	49	1:1	1.42	23.2	21.7
1 905	26590	LTE Band 25	High	Open	I	20	20.72	Front	0	0	1	49	1:1	1.21	23.9	
1 905	26590	LTE Band 25	High	Open	I	20	20.71	Right	0	0	50	25	1:1	1.97	21.7	
1 905	26590	LTE Band 25	High	Open	I	20	20.72	Top	0	0	1	49	1:1	0.119	33.9	
831.5	26865	LTE Band 26	Mid	Open	A	15	23.85	Rear	0	0	1	36	1:1	0.663	29.6	29.6
831.5	26865	LTE Band 26	Mid	Open	A	15	23.85	Front	0	0	1	36	1:1	0.641	29.8	
831.5	26865	LTE Band 26	Mid	Open	A	15	23.85	Left	0	0	1	36	1:1	0.670	29.6	
831.5	26865	LTE Band 26	Mid	Open	A	15	23.85	Right	0	0	1	36	1:1	0.507	30.8	
831.5	26865	LTE Band 26	Mid	Open	A	15	23.85	Bottom	0	0	1	36	1:1	0.442	31.4	

MEASUREMENT RESULTS																
Frequency		Mode		Form Factor	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
㎒	Ch.					㎒	(dBm)			(dB)				(W/kg)	(dBm)	(dBm)
2 506	39750	LTE Band 41(PC3)	Low	Open	B	20	20.00	Rear	0	0	1	0	1:1.58	1.43	22.4	22.4
2 506	39750	LTE Band 41(PC3)	Low	Open	B	20	20.00	Front	0	0	1	0	1:1.58	0.778	25.1	
2 506	39750	LTE Band 41(PC3)	Low	Open	B	20	20.00	Left	0	0	1	0	1:1.58	0.42	27.8	
2 506	39750	LTE Band 41(PC3)	Low	Open	B	20	20.00	Bottom	0	0	1	0	1:1.58	1.22	23.1	
2 506	39750	LTE Band 41(PC2)	Low	Open	B	20	18.99	Rear	0	0	1	0	1:2.31	1.67	20.7	20.7
2 506	39750	LTE Band 41(PC2)	Low	Open	B	20	18.99	Front	0	0	1	0	1:2.31	0.928	23.3	
2 506	39750	LTE Band 41(PC2)	Low	Open	B	20	18.99	Left	0	0	1	0	1:2.31	0.487	26.1	
2 506	39750	LTE Band 41(PC2)	Low	Open	B	20	18.99	Bottom	0	0	1	0	1:2.31	1.34	21.7	
2 680	41490	LTE Band 41(PC3)	High	Open	I	20	19.37	Rear	0	0	1	0	1:1.58	1.33	22.1	20.6
2 680	41490	LTE Band 41(PC3)	High	Open	I	20	19.37	Front	0	0	1	0	1:1.58	1.87	20.6	
2 680	41490	LTE Band 41(PC3)	High	Open	I	20	19.37	Right	0	0	1	0	1:1.58	1.67	21.1	
2 680	41490	LTE Band 41(PC3)	High	Open	I	20	19.37	Top	0	0	1	0	1:1.58	0.207	30.2	
2 680	41490	LTE Band 41(PC2)	High	Open	I	20	19.65	Rear	0	0	1	0	1:2.31	1.47	22.0	20.8
2 680	41490	LTE Band 41(PC2)	High	Open	I	20	19.65	Front	0	0	1	0	1:2.31	1.77	21.2	
2 680	41490	LTE Band 41(PC2)	High	Open	I	20	19.65	Right	0	0	1	0	1:2.31	1.90	20.8	
2 680	41490	LTE Band 41(PC2)	High	Open	I	20	19.65	Top	0	0	1	0	1:2.31	0.193	30.8	
1 745	132322	LTE Band 66	Mid	Open	A	20	19.38	Rear	0	0	1	0	1:1	1.99	20.4	20.4
1 745	132322	LTE Band 66	Mid	Open	A	20	19.43	Front	0	0	50	25	1:1	1.13	22.9	
1 745	132322	LTE Band 66	Mid	Open	A	20	19.43	Left	0	0	50	25	1:1	0.028	29.8	
1 770	132572	LTE Band 66	High	Open	A	20	19.71	Right	0	0	1	49	1:1	0.133	32.5	
1 745	132322	LTE Band 66	Mid	Open	A	20	19.43	Bottom	0	0	50	25	1:1	1.42	21.9	
1 745	132322	LTE Band 66	Mid	Open	I	20	20.93	Rear	0	0	1	49	1:1	1.65	22.7	21.0
1 745	132322	LTE Band 66	Mid	Open	I	20	20.93	Front	0	0	1	49	1:1	1.63	22.8	
1 720	132072	LTE Band 66	Low	Open	I	20	20.58	Right	0	0	100	0	1:1	2.25	21.0	
1 745	132322	LTE Band 66	Mid	Open	I	20	20.93	Top	0	0	1	49	1:1	0.128	33.8	

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 TDD NR bands were measured in FTM Mode.

MEASUREMENT RESULTS																		
Frequency		Mode		Form Factor	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)
836.5	167300	NR Band n5	Mid	Open	A	20	23.85	Rear	DFT-s-OFDM QPSK	0	0	50	28	1:1	0.826	28.7	29.3
836.5	167300	NR Band n5	Mid	Open	A	20	23.85	Front	DFT-s-OFDM QPSK	0	0	50	28	1:1	0.620	29.9	
836.5	167300	NR Band n5	Mid	Open	A	20	23.85	Left	DFT-s-OFDM QPSK	0	0	50	28	1:1	0.706	29.3	
836.5	167300	NR Band n5	Mid	Open	A	20	23.85	Right	DFT-s-OFDM QPSK	0	0	50	28	1:1	0.713	29.3	
836.5	167300	NR Band n5	Mid	Open	A	20	23.85	Bottom	DFT-s-OFDM QPSK	0	0	50	28	1:1	0.619	29.9	
1 882.5	376500	NR Band n25	Mid	Open	A	40	20.54	Rear	CP-OFDM QPSK	0	0	1	1	1:1	1.85	21.8	21.8
1 882.5	376500	NR Band n25	Mid	Open	A	40	20.53	Front	DFT-s-OFDM QPSK	0	0	108	0	1:1	0.385	28.7	
1 882.5	376500	NR Band n25	Mid	Open	A	40	20.52	Left	DFT-s-OFDM QPSK	0	0	1	214	1:1	0.459	27.9	
1 882.5	376500	NR Band n25	Mid	Open	A	40	20.53	Right	DFT-s-OFDM QPSK	0	0	108	0	1:1	0.149	32.8	
1 882.5	376500	NR Band n25	Mid	Open	A	40	20.53	Bottom	DFT-s-OFDM QPSK	0	0	1	214	1:1	1.04	24.3	
1 882.5	376500	NR Band n25	Mid	Open	I	40	21.02	Rear	DFT-s-OFDM QPSK	0	0	216	0	1:1	1.61	22.9	21.3
1 882.5	376500	NR Band n25	Mid	Open	I	40	20.99	Front	DFT-s-OFDM QPSK	0	0	108	54	1:1	1.37	23.6	
1 882.5	376500	NR Band n25	Mid	Open	I	40	21.09	Right	CP-OFDM QPSK	0	0	1	1	1:1	2.36	21.3	
1 882.5	376500	NR Band n25	Mid	Open	I	40	20.99	Top	DFT-s-OFDM QPSK	0	0	108	54	1:1	0.129	33.9	

MEASUREMENT RESULTS																		
Frequency		Mode		Form Factor	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)
2 592.99	518598	NR Band n41	Mid	Open	I	100	21.25	Rear	DFT-s-OFDM QPSK	0	0	1	1	1:1	1.70	22.9	21.9
2 592.99	518598	NR Band n41	Mid	Open	I	100	21.25	Front	DFT-s-OFDM QPSK	0	0	1	1	1:1	2.16	21.9	
2 592.99	518598	NR Band n41	Mid	Open	I	100	21.25	Right	DFT-s-OFDM QPSK	0	0	1	1	1:1	2.45	21.3	
2 592.99	518598	NR Band n41	Mid	Open	I	100	21.25	Top	DFT-s-OFDM QPSK	0	0	1	1	1:1	0.222	31.8	
2 592.99	518598	NR n41 SRS2	Mid	Open	B	100	16.78	Rear	CW	0	0	-	-	1:1	0.893	21.3	21.3
2 592.99	518598	NR n41 SRS2	Mid	Open	B	100	16.78	Front	CW	0	0	-	-	1:1	0.511	23.7	
2 592.99	518598	NR n41 SRS2	Mid	Open	B	100	16.78	Left	CW	0	0	-	-	1:1	0.277	26.3	
2 592.99	518598	NR n41 SRS2	Mid	Open	B	100	16.78	Bottom	CW	0	0	-	-	1:1	0.794	21.8	
2 592.99	518598	NR n41 SRS3	Mid	Open	F	100	18.5	Rear	CW	0	0	-	-	1:1	0.639	24.4	20.1
2 592.99	518598	NR n41 SRS3	Mid	Open	F	100	18.5	Front	CW	0	0	-	-	1:1	0.737	23.8	
2 592.99	518598	NR n41 SRS3	Mid	Open	F	100	18.5	Left	CW	0	0	-	-	1:1	1.74	20.1	
2 592.99	518598	NR n41 SRS3	Mid	Open	F	100	18.5	Top	CW	0	0	-	-	1:1	0.387	26.6	
2 592.99	518598	NR n41 SRS4	Mid	Open	C	100	12.35	Rear	CW	0	0	-	-	1:1	0.452	19.8	19.6
2 592.99	518598	NR n41 SRS4	Mid	Open	C	100	12.35	Front	CW	0	0	-	-	1:1	0.336	21.1	
2 592.99	518598	NR n41 SRS4	Mid	Open	C	100	12.35	Left	CW	0	0	-	-	1:1	0.470	19.6	
2 592.99	518598	NR n41 SRS4	Mid	Open	C	100	12.35	Bottom	CW	0	0	-	-	1:1	0.037	30.6	
1 745	349000	NR Band n66	Mid	Open	A	40	20.14	Rear	DFT-s-OFDM QPSK	0	0	216	0	1:1	1.79	21.6	21.6
1 745	349000	NR Band n66	Mid	Open	A	40	20.23	Front	DFT-s-OFDM QPSK	0	0	108	108	1:1	0.927	24.5	
1 745	349000	NR Band n66	Mid	Open	A	40	20.29	Left	DFT-s-OFDM QPSK	0	0	1	214	1:1	0.184	31.6	
1 745	349000	NR Band n66	Mid	Open	A	40	20.29	Right	DFT-s-OFDM QPSK	0	0	1	214	1:1	0.157	32.3	
1 745	349000	NR Band n66	Mid	Open	A	40	20.29	Bottom	DFT-s-OFDM QPSK	0	0	1	214	1:1	1.32	23.1	
1 745	349000	NR Band n66	Mid	Open	I	40	20.50	Rear	DFT-s-OFDM QPSK	0	0	1	214	1:1	1.78	22.0	20.9
1 745	349000	NR Band n66	Mid	Open	I	40	20.50	Front	DFT-s-OFDM QPSK	0	0	1	214	1:1	1.47	22.8	
1 745	349000	NR Band n66	Mid	Open	I	40	20.60	Right	CP-OFDM QPSK	0	0	1	1	1:1	2.35	20.9	
1 745	349000	NR Band n66	Mid	Open	I	40	20.50	Top	DFT-s-OFDM QPSK	0	0	1	214	1:1	0.143	32.9	

MEASUREMENT RESULTS																	
Frequency		Mode		Form Factor	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)
3 930	662000	NR Band n77	High	Open	F	100	18.7	Rear	DFT-s-OFDM QPSK	0	0	1	1	1:1	1.32	21.5	18.9
3 930	662000	NR Band n77	High	Open	F	100	18.7	Front	DFT-s-OFDM QPSK	0	0	1	1	1:1	1.38	21.3	
3 930	662000	NR Band n77	High	Open	F	100	18.7	Left	DFT-s-OFDM QPSK	0	0	1	1	1:1	2.37	18.9	
3 930	662000	NR Band n77	High	Open	F	100	18.7	Top	DFT-s-OFDM QPSK	0	0	1	1	1:1	0.669	24.4	
3 500.01	633334	NR Band DoD n77	Mid	Open	F	100	18.35	Rear	DFT-s-OFDM QPSK	0	0	1	1	1:1	1.17	21.6	18.6
3 500.01	633334	NR Band DoD n77	Mid	Open	F	100	18.35	Front	DFT-s-OFDM QPSK	0	0	1	1	1:1	1.63	20.2	
3 500.01	633334	NR Band DoD n77	Mid	Open	F	100	18.35	Left	DFT-s-OFDM QPSK	0	0	1	1	1:1	2.37	18.6	
3 500.01	633334	NR Band DoD n77	Mid	Open	F	100	18.35	Top	DFT-s-OFDM QPSK	0	0	1	1	1:1	0.803	23.3	
3 750	650000	NR n77 SRS2	Low	Open	I	100	19.48	Rear	CW	0	0	-	-	1:1	0.545	26.1	26.1
3 750	650000	NR n77 SRS2	Low	Open	I	100	19.48	Front	CW	0	0	-	-	1:1	0.550	26.1	
3 750	650000	NR n77 SRS2	Low	Open	I	100	19.48	Right	CW	0	0	-	-	1:1	0.543	26.1	
3 750	650000	NR n77 SRS2	Low	Open	I	100	19.48	Top	CW	0	0	-	-	1:1	0.039	37.5	
3 500.01	633334	NR n77 DoD SRS2	Mid	Open	I	100	18.39	Rear	CW	0	0	-	-	1:1	1.01	22.3	22.0
3 500.01	633334	NR n77 DoD SRS2	Mid	Open	I	100	18.39	Front	CW	0	0	-	-	1:1	1.09	22.0	
3 500.01	633334	NR n77 DoD SRS2	Mid	Open	I	100	18.39	Right	CW	0	0	-	-	1:1	0.842	23.1	
3 500.01	633334	NR n77 DoD SRS2	Mid	Close	I	100	18.39	Top	CW	0	0	-	-	1:1	0.219	29.0	
3 930	662000	NR n77 SRS3	High	Open	E	100	19.47	Rear	CW	0	0	-	-	1:1	0.502	26.4	21.8
3 930	662000	NR n77 SRS3	High	Open	E	100	19.47	Front	CW	0	0	-	-	1:1	0.462	26.8	
3 930	662000	NR n77 SRS3	High	Open	E	100	19.47	Left	CW	0	0	-	-	1:1	1.46	21.8	
3 930	662000	NR n77 SRS3	High	Open	E	100	19.47	Top	CW	0	0	-	-	1:1	0.038	37.7	
3 500.01	633334	NR n77 DoD SRS3	Mid	Open	E	100	18.35	Rear	CW	0	0	-	-	1:1	0.800	22.3	22.0
3 500.01	633334	NR n77 DoD SRS3	Mid	Open	E	100	18.35	Front	CW	0	0	-	-	1:1	0.743	22.0	
3 500.01	633334	NR n77 DoD SRS3	Mid	Open	E	100	18.35	Left	CW	0	0	-	-	1:1	2.09	23.1	
3 500.01	633334	NR n77 DoD SRS3	Mid	Open	E	100	18.35	Top	CW	0	0	-	-	1:1	0.067	29.0	
3 750	650000	NR n77 SRS4	Low	Open	C	100	11.64	Rear	CW	0	0	-	-	1:1	0.292	21.1	21.1
3 750	650000	NR n77 SRS4	Low	Open	C	100	11.64	Front	CW	0	0	-	-	1:1	0.229	22.0	
3 750	650000	NR n77 SRS4	Low	Open	C	100	11.64	Right	CW	0	0	-	-	1:1	0.256	21.5	
3 750	650000	NR n77 SRS4	Low	Open	C	100	11.64	Top	CW	0	0	-	-	1:1	0.075	26.9	
3 500.01	633334	NR n77 DoD SRS4	Mid	Open	C	100	11.13	Rear	CW	0	0	-	-	1:1	0.493	18.2	18.2
3 500.01	633334	NR n77 DoD SRS4	Mid	Open	C	100	11.13	Front	CW	0	0	-	-	1:1	0.344	19.7	
3 500.01	633334	NR n77 DoD SRS4	Mid	Open	C	100	11.13	Right	CW	0	0	-	-	1:1	0.698	16.7	
3 500.01	633334	NR n77 DoD SRS4	Mid	Open	C	100	11.13	Top	CW	0	0	-	-	1:1	0.059	27.4	

Table A-16 DSI = 0 *PLimit* 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	Form Factor	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)
2 412	1	802.11b	20	Open	F	1	17.86	Rear	WIFI1	98.8	0.541	1.012	24.5	20.4
2 412	1	802.11b	20	Open	F	1	17.86	Front	WIFI1	98.8	0.627	1.012	23.9	
2 412	1	802.11b	20	Open	F	1	17.86	Left	WIFI1	98.8	1.39	1.012	20.4	
2 412	1	802.11b	20	Open	F	1	17.86	Top	WIFI1	98.8	0.256	1.012	27.8	
2 437	6	802.11b	20	Open	H	1	17.55	Rear	WIFI2	98.8	0.299	1.012	26.8	23.9
2 437	6	802.11b	20	Open	H	1	17.55	Front	WIFI2	98.8	0.494	1.012	24.6	
2 437	6	802.11b	20	Open	H	1	17.55	Right	WIFI2	98.8	0.110	1.012	31.1	
2 437	6	802.11b	20	Open	H	1	17.55	Top	WIFI2	98.8	0.583	1.012	23.9	
5 785	157	802.11a	20	Open	F	6	15.31	Rear	WIFI1	94.2	0.443	1.062	22.8	19.3
5 785	157	802.11a	20	Open	F	6	15.31	Front	WIFI1	94.2	0.441	1.062	22.8	
5 865	173	802.11a	20	Open	F	6	15.49	Left	WIFI1	94.2	1.05	1.062	19.3	
5 785	157	802.11a	20	Open	F	6	15.31	Top	WIFI1	94.2	0.180	1.062	26.7	
5 600	120	802.11a	20	Open	H	6	15.95	Rear	WIFI2	94.2	0.272	1.062	25.6	25.3
5 785	157	802.11a	20	Open	H	6	15.11	Front	WIFI2	94.2	0.238	1.062	25.3	
5 785	157	802.11a	20	Open	H	6	15.11	Right	WIFI2	94.2	0.139	1.062	27.7	
5 785	157	802.11a	20	Open	H	6	15.11	Top	WIFI2	94.2	0.146	1.062	27.4	
6 525	115	802.11ax	40	Open	F	MCS0	10.21	Rear	WIFI1	99.7	0.053	1.021	26.9	24.4
6 525	115	802.11ax	40	Open	F	MCS0	10.21	Front	WIFI1	99.7	0.091	1.021	24.6	
6 525	115	802.11ax	40	Open	F	MCS0	10.21	Left	WIFI1	99.7	0.095	1.021	24.4	
6 525	115	802.11ax	40	Open	F	MCS0	10.21	Top	WIFI1	99.7	0.027	1.021	29.9	
6 525	115	802.11ax	40	Open	H	MCS0	10.23	Rear	WIFI2	99.7	0.047	1.021	27.5	24.0
6 525	115	802.11ax	40	Open	H	MCS0	10.23	Front	WIFI2	99.7	0.094	1.021	24.5	
6 525	115	802.11ax	40	Open	H	MCS0	10.23	Right	WIFI2	99.7	0.105	1.021	24.0	
6 525	115	802.11ax	40	Open	H	MCS0	10.23	Top	WIFI2	99.7	0.027	1.021	29.9	

MEASUREMENT RESULTS											
Frequency		Mode/ Band	Form Factor	Ant. No.	Frame Averaged Conducted Power	Test Position	Ant. Config.	Meas. SAR(10g)	Scaling Factor	Plimit	Minimum Plimit
MHz	Ch.				(dBm)			(W/kg)	(Duty)	(dBm)	(dBm)
2 402	0	DH5	Open	F	18.82	Rear	Ant 1	0.625	1.010	24.8	19.8
2 402	0	DH5	Open	F	18.82	Front	Ant 1	0.775	1.010	23.9	
2 402	0	DH5	Open	F	18.82	Left	Ant 1	1.98	1.010	19.8	
2 402	0	DH5	Open	F	18.82	Top	Ant 1	0.329	1.010	27.6	
2 441	39	DH5	Open	H	17.72	Rear	Ant 2	0.193	1.010	28.8	25.0
2 441	39	DH5	Open	H	17.72	Front	Ant 2	0.380	1.010	25.9	
2 441	39	DH5	Open	H	17.72	Right	Ant 2	0.067	1.010	33.4	
2 441	39	DH5	Open	H	17.72	Top	Ant 2	0.469	1.010	25.0	