

TEST REPORT

FCC SAR Part 0 Test for SM-F761U
Class II Permissive Change

APPLICANT
SAMSUNG Electronics Co., Ltd.

REPORT NO.
HCT-SR-2505-FC021

DATE OF ISSUE
May 19, 2025

Tested by
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TEST REPORT

PART 0 SAR Test
for certification

REPORT NO.**HCT-SR-2505-FC021****DATE OF ISSUE****May 19, 2025****FCC ID****A3LSMF761U****Applicant**

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

Product Name**Mobile Phone****Model Name****SM-F761U****Additional Model Name****SM-F761U1****Application Type****Class II Permissive Change****Date of Test****May 8, 2025 ~ May 16, 2025****Location of Test**

☒ **Permanent Testing Lab** ☐ **On Site Testing Lab**
(Address: 74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si,

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 19, 2025	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).

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1. Test Location

1.1 Test Laboratory

Company Name	HCT Co., Ltd.
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Telephone	031-645-6300
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1.2 Test Facilities

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

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

1.3 General Information of the EUT

Model Name	SM-F761U
Additional Model Name	SM-F761U1
Equipment Type	Mobile Phone
FCC ID	A3LSMF761U
Application Type	Class II Permissive Change
Applicant	SAMSUNG Electronics Co., Ltd.
Test Note	The C2PC test of the DUT was performed by changing the pin to pin of the same performance part of the Sub5(Ant.I) and changing the body power of the n77 band by changing the S/W. The spot check is performed on the band with the change of the sub5 antenna, and the full test is performed on the band where the result is higher than the original model [Report no: HCT-SR-2504-FC012-R2].

2. DEVICE UNDER TEST DESCRIPTION

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

2.1 Time-Averaging for SAR

This WWAN Mode of DUT is equipped with an S.LSI chipset to which the Samsung S.LSI proprietary TAS (Time Average SAR) algorithm is applied. and also This equipment contains the Qualcomm modem supporting WLAN Fast connect TAS operations.

This DUT is enabled with the Samsung S.LSI proprietary TAS (Time Average SAR) algorithm for WWAN Mode and also Qualcomm Fast connect TAS feature for WLAN Mode to control and manage transmitting power in real time and to ensure at all times the time-averaged RF exposure is in compliance with the FCC requirement

FCC RF exposure limit is based on time averaged RF exposure. The SAR regulatory specification is defined over certain measurement duration allowing for time-averaging. The Samsung S.LSI proprietary TAS (Time Average SAR) algorithm has been designed to meet the compliance limits over the required duration, while still allowing dynamic control of transmit power to satisfy the performance of the system.

This feature performs time averaging SAR algorithm in real time to control and manage transmitting power and ensure the time-averaged RF exposure is in compliance with FCC requirements all the time.

The WLAN mode are not controlled by The Samsung S.LSI proprietary TAS (Time Average SAR) algorithm.

This equipment contains the Qualcomm modem supporting WLAN Fast connect TAS algorithm for TAS operations This feature performs time averaging algorithm in real time to control and manage transmitting power and ensure the time-averaged RF exposure is in compliance with FCC requirements all the time. DUT contains BDF File configured for the WLAN Fast connect TAS algorithm. Only the BT, NFC mode of the device did not apply the time averaged SAR algorithm.

The Samsung S.LSI TAS algorithm and Qualcomm Fast connect TAS algorithm allow the device to transmit at higher power instantaneously, as high as P_{max}, when needed, but enforces power limiting to maintain time-averaged transmit power to P_{limit}. Below table shows P_{limit} NV settings and maximum tune up output power P_{max} configured for this DUT for various transmit conditions (Radio SAR indicator RSI for Head / Body SAR of WWAN Mode, Device State Index DSI for WLAN mode).

The purpose of this report is to demonstrate that the DUT meets FCC SAR limits when transmitting in static transmission configurations at P_{limit} specified by manufacturer.

SAR Characterization confirms that P_{limit} in the 4G/5G/WLAN communication mode declared by the manufacturer satisfies SAR_{target}.

The compliance test under the static transmission scenario and simultaneous transmission analysis are reported in SAR report for WWAN. The validation of The Samsung S.LSI proprietary TAS (Time Average SAR) algorithm and compliance under the time-varying transmission scenario for WWAN technologies are reported in TAS Validation report. The validation of The Qualcomm Fast connect TAS algorithm and compliance under the time-varying transmission scenario for WLAN technologies are reported in A3LSMF761U_SAR Part 2 Report_WLAN report.

2.2 Nomenclature for Part 0 Report

Technology	Term	Description
3G/4G/5G/ Sub6 NR/ WLAN	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 (dW) absorbed by (dissipated in) an incremental mass (dm) contained in a volume element (dV) 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

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

SAR Mathematical Equation

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

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

Where:

σ = conductivity of the tissue-simulant material (S/m)
 ρ = mass density of the tissue-simulant material (kg/m³)
 E = Total RMS electric field strength (V/m)

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

3.2 SAR Measurement Procedure

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

1. The SAR distribution at the exposed side of the head or body was measured at a distance no more than 5.0 mm from the inner surface of the shell. The area covered the entire dimension of the DUT's head and body area and the horizontal grid resolution was depending on the FCC KDB 865664 D01v01r04 (see table 3-1) & IEEE 1528-2013.
2. Based on step, the area of the maximum absorption was determined by sophisticated interpolations routines implemented in DASY software. When an Area Scan has measured all reachable point. DASY system computes the field maximal found in the scanned are, within a range of the maximum. SAR at this fixed point was measured and used as a reference value.
3. Around this point, a volume was assessed according to the measurement resolution and volume size requirements of FCC KDB 865664 D01v01r04 table 4-1 and IEEE 1528-2013. On the basis of this data set, the spatial peak SAR value was evaluated with the following procedure (reference from the DASY manual.)
 - a. The data at the surface were extrapolated, since the center of the dipoles is no more than 2.7 mm away from the tip of the probe (it is different from the probe type) and the distance between the surface and the lowest measuring point is 1.2 mm. The extrapolation was based on a least square algorithm. A polynomial of the fourth order was calculated through the points in z-axes. This polynomial was then used to evaluate the points between the surface and the probe tip.
 - b. The maximum interpolated value was searched with a straight-forward algorithm. Around this maximum the SAR values averaged over the spatial volumes (1 g or 10 g) were computed using the 3D-Spline interpolation algorithm. The 3D-spline is composed of three one-dimensional splines with the "Not a knot" condition (in x, y, and z directions. The volume was integrated with the trapezoidal algorithm. One thousand points (10 x 10 x 10) were interpolated to calculate the average.
 - c. All neighboring volumes were evaluated until no neighboring volume with a higher average value was found.
4. The SAR reference value, at the same location as step 2, was re-measured after the zoom scan. If the value changed by more than 5 %, the SAR evaluation and drift measurements were repeated.

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		
			Δ Zzoom(n)	Δ Zzoom(1)*	Δ Zzoom(n>1)*	
≤2 GHz	≤15	≤8	≤5	≤4	≤1.5* Δ zzoom(n-1)	≥30
2-3 GHz	≤12	≤5	≤5	≤4	≤1.5* Δ zzoom(n-1)	≥30
3-4 GHz	≤12	≤5	≤4	≤3	≤1.5* Δ zzoom(n-1)	≥28
4-5 GHz	≤10	≤4	≤3	≤2.5	≤1.5* Δ zzoom(n-1)	≥25
5-6 GHz	≤10	≤4	≤2	≤2	≤1.5* Δ zzoom(n-1)	≥22

Table 3-1
Area and Zoom Scan Resolutions per FCC KDB Publication 865664 D01v01r04*

4. SAR CHARACTERIZATION

4.1 Exposure Index and SAR Determination

This device uses different Radio State index (RSI) 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 RSI. 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 Radio State indicator (RSI) conditions used in Table 4-1 represent different exposure scenarios.

Scenario	Description	SAR Test Cases
Head (RSI = 1)	Device positioned next to head	SAR per KDB Publication 648474 D04 and KDB Publication 447498 D01
Flip Open Body (RSI = 0)	Device Flip open DUT's transmitter output power in free or body worn condition	SAR per KDB Publication 648474 D04 and KDB Publication 447498 D01
Flip Open Body (RSI = 2)	Device Flip open Device transmits in hotspot mode Device is held with hand	SAR per KDB Publication 648474 D04 and KDB Publication 447498 D01
Flip Close Body (RSI = 3)	Device Flip close DUT's transmitter output power in free or body worn condition	SAR per KDB Publication 648474 D04 and KDB Publication 447498 D01
Flip Close Body (RSI = 4)	Device Flip close Device transmits in hotspot mode Device is held with hand	SAR per KDB Publication 648474 D04 and KDB Publication 447498 D01

Table 4-1 RSI and Corresponding Exposure Scenarios for WWAN Mode

4.2 SAR Design Target

SAR_design_target is determined by ensuring that it is less than FCC SAR limit after accounting for total device designed related uncertainties specified by the manufacturer (see Table 4-2).

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

Table 4-2 Main SAR_design_target Calculations

4.3 SAR Characterization

The C2PC test of the DUT was performed by changing the pin to pin of the same performance part of the Sub5(Ant.I) and changing the body power of the n77 band by changing the S/W. For Plimit and Pmax information of other antennas and modes that are not affected by the DUT's C2PC changes, please refer to the original model's test report[Report no: HCT-SR-2504-FC012-R2]

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			Free (Open, Close)	Head (RCV ON)	Hotspot (Open, Close)	Maximum Tune-up Output Power (Frame Averaged Power) [dBm]
Averaging volume			1g	1g	1g	
separation Distance			5 mm	0 mm	5 mm	
Mode	Band	Antenna	RSI=0,3	RSI=1	RSI=2,4	
NR TDD SRS 1 PC2	77 / 78	F	14.0	N/A	14.0	25.5
NR TDD SRS 3 PC2	77 / 78	E	14.0	N/A	14.0	25.5
NR TDD SRS 2 PC2	77 / 78 DoD	I	14.0	N/A	14.0	25.5
NR TDD SRS 4 PC2	77 / 78 DoD	C	14.0	N/A	14.0	23.5

Table 4-3 SAR Characterization

Note

1. all Plimit and maximum tune up output power Pmax levels entered in above Table correspond to average power levels after accounting for duty cycle in the case of TDD modulation schemes (for e.g., LTE TDD).
2. The maximum time-averaged output power (dBm) for any 3G/4G/5G WWAN and WLAN technology, band, and SAR Exposure condition=minimum of “Plimit” and “Maximum tune up output power: “Pmax” + 1dB device uncertainty.
3. The maximum time averaged output power means Plimit for each modes SAR values in this report were scaled to the maximum allowed output power to determine compliance per KDB Publication 447498 D01v06.

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/21/0029002/C/001	N/A	N/A	N/A
Staubli	CS9spe-TX2-60	F/21/0029145/C/001	N/A	N/A	N/A
Staubli	CS8Cspeag-TX90	F17/ 59RAA1/ C/ 01	N/A	N/A	N/A
Staubli	TX2-60 Lspeag	F/21/0029002/A/001	N/A	N/A	N/A
Staubli	TX2-60 Lspeag	F/21/0029145/A/001	N/A	N/A	N/A
Staubli	TX90 XLspeag	F17/ 59RAA1/ A/ 01	N/A	N/A	N/A
Staubli	Teach Pendant (Joystick)	D21144507C	N/A	N/A	N/A
Staubli	Teach Pendant (Joystick)	D21144507C	N/A	N/A	N/A
Staubli	Teach Pendant (Joystick)	D21142606B	N/A	N/A	N/A
TESTO	608-H1/Thermometer	83239085	10/24/2024	Annual	10/24/2025
TESTO	608-H1/Thermometer	83348028	03/20/2025	Annual	03/20/2026
TESTO	175-H1/Thermometer	40331922309	12/06/2024	Annual	12/06/2025
SPEAG	DAE4	446	06/19/2024	Annual	06/19/2025
SPEAG	DAE4	504	01/17/2025	Annual	01/17/2026
SPEAG	DAE4	1417	02/18/2025	Annual	02/18/2026
SPEAG	E-Field Probe EX3DV4	7907	12/27/2024	Annual	12/27/2025
SPEAG	E-Field Probe EX3DV4	7681	11/22/2024	Annual	11/22/2025
SPEAG	E-Field Probe EX3DV4	3797	01/21/2025	Annual	01/21/2026
SPEAG	E-Field Probe EX3DV4	7370	08/22/2024	Annual	08/22/2025
SPEAG	Dipole D1640V2	345	07/12/2023	Biennial	07/12/2025
SPEAG	Dipole D1800V2	2d007	04/15/2024	Biennial	04/15/2026
SPEAG	Dipole D1900V2	5d061	01/20/2025	Annual	01/20/2026
SPEAG	Dipole D2300V2	1010	07/19/2023	Biennial	07/19/2025
SPEAG	Dipole D2600V2	1015	04/22/2024	Biennial	04/22/2026
SPEAG	Dipole D3500V2	1040	01/16/2025	Annual	01/16/2026
SPEAG	Dipole D3700V2	1105	09/18/2024	Annual	09/18/2025
SPEAG	Dipole D3900V2	1086	05/21/2024	Annual	05/21/2025
Agilent	Power Meter E4419B	MY41291386	09/11/2024	Annual	09/11/2025
Agilent	Power Meter N1911A	MY45101406	05/21/2024	Annual	05/21/2025
Agilent	Power Sensor 8481A	SG1091286	09/12/2024	Annual	09/12/2025
H.P	Power Sensor 8481A	MY41090675	09/12/2024	Annual	09/12/2025
Agilent	Wideband Power Sensor N1921A	MY55220026	07/30/2024	Annual	07/30/2025
Agilent	11636B/Power Divider	58698	01/13/2025	Annual	01/13/2026
SPEAG	DAKS 3.5	1038	01/20/2025	Annual	01/20/2026
SPEAG	Vector Reflectometer	0141013	01/13/2025	Annual	01/13/2026
SPEAG	MXA Signal Analyzer	MY49100108	01/07/2025	Annual	01/07/2026
H.P	Network Analyzer /8753E	JP38451384	08/20/2024	Annual	08/20/2025
Protek	NETWORK ANALYZER	X11-15305	02/10/2025	Annual	02/10/2026
Agilent	WIRELESS COMMUNICATION E5515C	MY48361100	09/11/2024	Annual	09/11/2025
R&S	Wireless Communication Test Set CMW500	115733	03/20/2025	Annual	03/20/2026
R&S	Wireless Communication Test Set CMW500	139333	12/09/2024	Annual	12/09/2025
Keysight	PSG Vector Signal Generator	MY50350097	03/05/2025	Annual	03/05/2026
EMPOWER	RF Power Amplifier	1084	05/21/2024	Annual	05/21/2025
EMPOWER	RF Power Amplifier	1041D/C0508	05/21/2024	Annual	05/21/2025
EMPOWER	RF Power Amplifier	1011	09/11/2024	Annual	09/11/2025
MICRO LAB	LP Filter / LA-15N	10453	09/11/2024	Annual	09/11/2025
MICRO LAB	LP Filter / LA-30N	-	09/11/2024	Annual	09/11/2025
Agilent	Attenuator (3dB) 8693B	MY39260298	08/20/2024	Annual	08/20/2025
HP	Attenuator (20dB) 8493C	09271	08/21/2024	Annual	08/21/2025
Agilent	Directional Bridge 86205A	3140A04581	04/18/2025	Annual	04/18/2026

Manufacturer	Type / Model	S/N	Calib. Date	Calib.Interval	Calib.Due
OSI	Power Divider	#1	05/21/2024	Annual	05/21/2025
OSI	Power Divider	#2	05/21/2024	Annual	05/21/2025
OSI	Power Divider	#3	05/21/2024	Annual	05/21/2025
OSI	Power Divider	#4	05/21/2024	Annual	05/21/2025
Agilent	MXA Signal Analyzer N9020A	MY50510407	06/04/2024	Annual	06/04/2025
HP	Dual Directional Coupler	16072	09/11/2024	Annual	09/11/2025
Anritsu	Radio Communication Test Station MT8000A	6262036812	11/27/2024	Annual	11/27/2025
Anritsu	Radio Communication Test Station MT8000A	6262148305	12/23/2024	Annual	12/23/2025
Anritsu	Radio Communication Tester MT8820C	6200695605	03/21/2025	Annual	03/21/2026
Anritsu	Radio Communication Tester MT8821C	6201502997	05/21/2024	Annual	05/21/2025

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.

Note: All measurements were performed within the valid calibration period of the specific equipment.

* 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 P limit CALCULATIONS

Table A-1 RSI = 1 *PLimit* Calculations – 3G Head SAR

MEASUREMENT RESULTS										
Frequency		Mode/ Band		Ant.	Frame Averaged	Test Position	Duty Cycle	Meas.	Plimit	Minimum
MHz	Ch.				Conducted Power			SAR(1g)	(dBm)	Plimit
					(dBm)			(W/kg)	(dBm)	(dBm)
1 732.4	1412	UMTS Band 4	RMC	I	15.25	Left Cheek	1:1	0.561	17.8	17.8
1 732.4	1412	UMTS Band 4	RMC	I	15.25	Left Tilt	1:1	0.126	24.2	
1 732.4	1412	UMTS Band 4	RMC	I	15.25	Right Cheek	1:1	0.199	22.3	
1 732.4	1412	UMTS Band 4	RMC	I	15.25	Right Tilt	1:1	0.044	28.8	
1 880	9400	UMTS Band 2	RMC	I	15.54	Left Cheek	1:1	0.663	17.3	17.3
1 880	9400	UMTS Band 2	RMC	I	15.54	Left Tilt	1:1	0.165	23.4	
1 880	9400	UMTS Band 2	RMC	I	15.54	Right Cheek	1:1	0.229	21.9	
1 880	9400	UMTS Band 2	RMC	I	15.54	Right Tilt	1:1	0.053	28.3	

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

MEASUREMENT RESULTS													
Frequency		Mode	Ant.	Band width	Frame Averaged Conducted Power	Test Position	MPR	RB Size	RB offset	Duty Cycle	Meas. SAR(1g)	Plimit	Minimum Plimit
MHz	Ch.			(dBm)	(dBm)		(dB)				(W/kg)	(dBm)	(dBm)
2 535	21100	LTE Band 7	I	20	14.64	Left Cheek	0	1	0	1:1	0.630	16.6	16.6
2 535	21100	LTE Band 7	I	20	14.64	Left Tilt	0	1	0	1:1	0.128	23.6	
2 535	21100	LTE Band 7	I	20	14.64	Right Cheek	0	1	0	1:1	0.150	22.9	
2 535	21100	LTE Band 7	I	20	14.64	Right Tilt	0	1	0	1:1	0.043	28.3	
1 860	26140	LTE Band 25	I	20	14.70	Left Cheek	0	1	0	1:1	0.686	16.3	16.3
1 860	26140	LTE Band 25	I	20	14.70	Left Tilt	0	1	0	1:1	0.141	23.2	
1 860	26140	LTE Band 25	I	20	14.70	Right Cheek	0	1	0	1:1	0.295	20.0	
1 860	26140	LTE Band 25	I	20	14.70	Right Tilt	0	1	0	1:1	0.049	27.8	
2 310	27710	LTE Band 30	I	10	14.17	Left Cheek	0	1	49	1:1	0.720	15.6	15.6
2 310	27710	LTE Band 30	I	10	14.17	Left Tilt	0	1	49	1:1	0.131	23.0	
2 310	27710	LTE Band 30	I	10	14.17	Right Cheek	0	1	49	1:1	0.157	22.2	
2 310	27710	LTE Band 30	I	10	14.17	Right Tilt	0	1	49	1:1	0.038	28.4	
2 549.5	40185	LTE Band41(PC3)	I	20	14.33	Left Cheek	0	1	49	1:1.58	0.594	16.6	16.6
2 549.5	40185	LTE Band41(PC3)	I	20	14.33	Left Tilt	0	1	49	1:1.58	0.099	24.4	
2 549.5	40185	LTE Band41(PC3)	I	20	14.33	Right Cheek	0	1	49	1:1.58	0.151	22.5	
2 549.5	40185	LTE Band41(PC3)	I	20	14.33	Right Tilt	0	1	49	1:1.58	0.034	29.0	
1 770	132572	LTE Band 66	I	20	14.56	Left Cheek	0	1	49	1:1	0.647	16.5	16.5
1 770	132572	LTE Band 66	I	20	14.56	Left Tilt	0	1	49	1:1	0.142	23.0	
1 770	132572	LTE Band 66	I	20	14.56	Right Cheek	0	1	49	1:1	0.309	19.7	
1 770	132572	LTE Band 66	I	20	14.56	Right Tilt	0	1	49	1:1	0.065	26.4	

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

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

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

SAR measurements of all NR 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.													
2 535	507000	NR Band n7	I	40	14.68	Left Cheek	DFT-s-OFDM QPSK	0	1	1	1:1	0.725	16.1	16.1
2 535	507000	NR Band n7	I	40	14.68	Left Tilt	DFT-s-OFDM QPSK	0	1	1	1:1	0.149	22.9	
2 535	507000	NR Band n7	I	40	14.68	Right Cheek	DFT-s-OFDM QPSK	0	1	1	1:1	0.170	22.4	
2 535	507000	NR Band n7	I	40	14.68	Right Tilt	DFT-s-OFDM QPSK	0	1	1	1:1	0.049	27.8	
1 882.5	376500	NR Band n25	I	40	14.97	Left Cheek	DFT-s-OFDM QPSK	0	1	108	1:1	0.455	18.4	18.4
1 882.5	376500	NR Band n25	I	40	14.97	Left Tilt	DFT-s-OFDM QPSK	0	1	108	1:1	0.039	29.1	
1 882.5	376500	NR Band n25	I	40	14.97	Right Cheek	DFT-s-OFDM QPSK	0	1	108	1:1	0.206	21.8	
1 882.5	376500	NR Band n25	I	40	14.97	Right Tilt	DFT-s-OFDM QPSK	0	1	108	1:1	0.038	29.2	
2 310	462000	NR Band n30	I	10	14.47	Left Cheek	DFT-s-OFDM QPSK	0	1	26	1:1	0.607	16.6	16.6
2 310	462000	NR Band n30	I	10	14.47	Left Tilt	DFT-s-OFDM QPSK	0	1	26	1:1	0.143	22.9	
2 310	462000	NR Band n30	I	10	14.47	Right Cheek	DFT-s-OFDM QPSK	0	1	26	1:1	0.145	22.9	
2 310	462000	NR Band n30	I	10	14.47	Right Tilt	DFT-s-OFDM QPSK	0	1	26	1:1	0.031	29.6	
2 592.99	518598	NR Band n41	I	100	14.24	Left Cheek	DFT-s-OFDM QPSK	0	1	271	1:1	0.671	16.0	16.0
2 592.99	518598	NR Band n41	I	100	14.24	Left Tilt	DFT-s-OFDM QPSK	0	1	271	1:1	0.128	23.2	
2 592.99	518598	NR Band n41	I	100	14.24	Right Cheek	DFT-s-OFDM QPSK	0	1	271	1:1	0.196	21.3	
2 592.99	518598	NR Band n41	I	100	14.24	Right Tilt	DFT-s-OFDM QPSK	0	1	271	1:1	0.040	28.2	
1 745	349000	NR Band n66	I	40	14.42	Left Cheek	DFT-s-OFDM QPSK	0	1	108	1:1	0.475	17.7	17.7
1 745	349000	NR Band n66	I	40	14.42	Left Tilt	DFT-s-OFDM QPSK	0	1	108	1:1	0.086	25.1	
1 745	349000	NR Band n66	I	40	14.42	Right Cheek	DFT-s-OFDM QPSK	0	1	108	1:1	0.224	20.9	
1 745	349000	NR Band n66	I	40	14.42	Right Tilt	DFT-s-OFDM QPSK	0	1	108	1:1	0.037	28.7	
1 702.5	340500	NR Band n70	I	15	14.96	Left Cheek	DFT-s-OFDM QPSK	0	1	1	1:1	0.400	18.9	18.9
1 702.5	340500	NR Band n70	I	15	14.96	Left Tilt	DFT-s-OFDM QPSK	0	1	1	1:1	0.142	23.4	
1 702.5	340500	NR Band n70	I	15	14.96	Right Cheek	DFT-s-OFDM QPSK	0	1	1	1:1	0.342	19.6	
1 702.5	340500	NR Band n70	I	15	14.96	Right Tilt	DFT-s-OFDM QPSK	0	1	1	1:1	0.051	27.9	

Table A-4 RSI = 0,3 P_{Limit} Calculations – 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)
1 732.4	1412	UMTS Band 4	RMC	Open	I	16.45	Rear	5	1:1	0.467	19.8	19.8
1 732.4	1412	UMTS Band 4	RMC	Open	I	16.45	Front	5	1:1	0.394	20.5	
1 732.4	1412	UMTS Band 4	RMC	Close	I	16.45	Rear	5	1:1	0.025	32.5	
1 732.4	1412	UMTS Band 4	RMC	Close	I	16.45	Front	5	1:1	0.297	21.7	
1 880	9400	UMTS Band 2	RMC	Open	I	15.87	Rear	5	1:1	0.333	20.6	19.1
1 880	9400	UMTS Band 2	RMC	Open	I	15.87	Front	5	1:1	0.286	21.3	
1 880	9400	UMTS Band 2	RMC	Close	I	15.87	Rear	5	1:1	0.030	31.1	
1 880	9400	UMTS Band 2	RMC	Close	I	15.87	Front	5	1:1	0.478	19.1	

Table A-5 RSI = 0,3 P_{Limit} Calculations – 4G Body-Worn SAR

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

MEASUREMENT RESULTS															
Frequency		Mode	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	(dBm)			(dB)				(W/kg)	(dBm)	(dBm)
2 535	21100	LTE Band 7	Open	I	20	16.32	Rear	5	0	1	49	1:1	0.393	20.4	19.5
2 535	21100	LTE Band 7	Open	I	20	16.32	Front	5	0	1	49	1:1	0.450	19.8	
2 535	21100	LTE Band 7	Close	I	20	16.32	Rear	5	0	1	49	1:1	0.077	27.5	
2 535	21100	LTE Band 7	Close	I	20	16.32	Front	5	0	1	49	1:1	0.476	19.5	
1 882.5	26365	LTE Band 25	Open	I	20	15.88	Rear	5	0	1	49	1:1	0.319	20.8	18.6
1 882.5	26365	LTE Band 25	Open	I	20	15.88	Front	5	0	1	49	1:1	0.056	28.4	
1 882.5	26365	LTE Band 25	Close	I	20	15.88	Rear	5	0	1	49	1:1	0.002	42.9	
1 882.5	26365	LTE Band 25	Close	I	20	15.88	Front	5	0	1	49	1:1	0.529	18.6	
2 310	27710	LTE Band 30	Open	I	10	15.30	Rear	5	0	1	24	1:1	0.376	19.5	18.3
2 310	27710	LTE Band 30	Open	I	10	15.30	Front	5	0	1	24	1:1	0.315	20.3	
2 310	27710	LTE Band 30	Close	I	10	15.30	Rear	5	0	1	24	1:1	0.052	28.1	
2 310	27710	LTE Band 30	Close	I	10	15.30	Front	5	0	1	24	1:1	0.502	18.3	
2 593	40620	LTE Band 41	Open	I	20	16.96	Rear	5	0	1	49	1:1.58	0.432	20.6	20.6
2 593	40620	LTE Band 41	Open	I	20	16.96	Front	5	0	1	49	1:1.58	0.398	21.0	
2 593	40620	LTE Band 41	Close	I	20	16.96	Rear	5	0	1	49	1:1.58	0.096	27.1	
2 593	40620	LTE Band 41	Close	I	20	16.96	Front	5	0	1	49	1:1.58	0.429	20.6	
1 770	132572	LTE Band 66	Open	I	20	15.83	Rear	5	0	1	49	1:1	0.645	17.7	17.7
1 770	132572	LTE Band 66	Open	I	20	15.83	Front	5	0	1	49	1:1	0.106	25.6	
1 770	132572	LTE Band 66	Close	I	20	15.83	Rear	5	0	1	49	1:1	0.010	35.8	
1 770	132572	LTE Band 66	Close	I	20	15.83	Front	5	0	1	49	1:1	0.445	19.3	

Table A-6 RSI = 0,3 *PLimit* Calculations – NR Body-Worn SAR

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

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

SAR measurements of all NR 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
2 535	507000	NR Band n7	Open	I	40	16.06	Rear	DFT-s-OFDM QPSK	0	5	1	1	1:1	0.194	23.2	20.2
2 535	507000	NR Band n7	Open	I	40	16.06	Front	DFT-s-OFDM QPSK	0	5	1	1	1:1	0.317	21.0	
2 535	507000	NR Band n7	Close	I	40	16.06	Rear	DFT-s-OFDM QPSK	0	5	1	1	1:1	0.133	24.8	
2 535	507000	NR Band n7	Close	I	40	16.06	Front	DFT-s-OFDM QPSK	0	5	1	1	1:1	0.382	20.2	
1 882.5	376500	NR Band n25	Open	I	40	16.23	Rear	DFT-s-OFDM QPSK	0	5	1	108	1:1	0.541	18.9	18.9
1 882.5	376500	NR Band n25	Open	I	40	16.23	Front	DFT-s-OFDM QPSK	0	5	1	108	1:1	0.200	23.2	
1 882.5	376500	NR Band n25	Close	I	40	16.23	Rear	DFT-s-OFDM QPSK	0	5	1	108	1:1	0.047	29.5	
1 882.5	376500	NR Band n25	Close	I	40	16.23	Front	DFT-s-OFDM QPSK	0	5	1	108	1:1	0.458	19.6	
2 310	462000	NR Band n30	Open	I	10	15.59	Rear	DFT-s-OFDM QPSK	0	5	1	26	1:1	0.387	19.7	19.5
2 310	462000	NR Band n30	Open	I	10	15.59	Front	DFT-s-OFDM QPSK	0	5	1	26	1:1	0.141	24.1	
2 310	462000	NR Band n30	Close	I	10	15.59	Rear	DFT-s-OFDM QPSK	0	5	1	26	1:1	0.045	29.1	
2 310	462000	NR Band n30	Close	I	10	15.59	Front	DFT-s-OFDM QPSK	0	5	1	26	1:1	0.404	19.5	
1 745	349000	NR Band n66	Open	I	40	16.40	Rear	DFT-s-OFDM QPSK	0	5	1	108	1:1	0.463	19.7	19.7
1 745	349000	NR Band n66	Open	I	40	16.40	Front	DFT-s-OFDM QPSK	0	5	1	108	1:1	0.243	22.5	
1 745	349000	NR Band n66	Close	I	40	16.40	Rear	DFT-s-OFDM QPSK	0	5	1	108	1:1	0.032	31.3	
1 745	349000	NR Band n66	Close	I	40	16.40	Front	DFT-s-OFDM QPSK	0	5	1	108	1:1	0.282	21.9	
1 702.5	340500	NR Band n70	Open	I	15	16.22	Rear	DFT-s-OFDM QPSK	0	5	1	1	1:1	0.587	18.5	20.0
1 702.5	340500	NR Band n70	Open	I	15	16.22	Front	DFT-s-OFDM QPSK	0	5	1	1	1:1	0.484	19.4	
1 702.5	340500	NR Band n70	Close	I	15	16.22	Rear	DFT-s-OFDM QPSK	0	5	1	1	1:1	0.019	33.4	
1 702.5	340500	NR Band n70	Close	I	15	16.22	Front	DFT-s-OFDM QPSK	0	5	1	1	1:1	0.414	20.0	
2 592.99	518598	NR Band n41	Open	I	100	19.17	Rear	DFT-s-OFDM QPSK	0	5	1	271	1:1	0.582	21.5	21.5
2 592.99	518598	NR Band n41	Open	I	100	19.17	Front	DFT-s-OFDM QPSK	0	5	1	271	1:1	0.530	21.9	
2 592.99	518598	NR Band n41	Close	I	100	19.17	Rear	DFT-s-OFDM QPSK	0	5	1	271	1:1	0.154	27.3	
2 592.99	518598	NR Band n41	Close	I	100	19.17	Front	DFT-s-OFDM QPSK	0	5	1	271	1:1	0.422	22.9	
2 592.99	518598	NR Band n41 SRS2	Open	B	100	15.31	Rear	DFT-s-OFDM QPSK	0	5	1	137	1:1	0.090	25.8	25.7
2 592.99	518598	NR Band n41 SRS2	Open	B	100	15.31	Front	DFT-s-OFDM QPSK	0	5	1	137	1:1	0.091	25.7	
2 592.99	518598	NR Band n41 SRS2	Close	B	100	15.31	Rear	DFT-s-OFDM QPSK	0	5	1	137	1:1	0.142	23.8	
2 592.99	518598	NR Band n41 SRS2	Close	B	100	15.31	Front	DFT-s-OFDM QPSK	0	5	1	137	1:1	0.018	32.8	
2 592.99	518598	NR Band n41 SRS3	Open	F	100	16.43	Rear	DFT-s-OFDM QPSK	0	5	1	137	1:1	0.202	23.4	22.9
2 592.99	518598	NR Band n41 SRS3	Open	F	100	16.43	Front	DFT-s-OFDM QPSK	0	5	1	137	1:1	0.165	24.3	
2 592.99	518598	NR Band n41 SRS3	Close	F	100	16.43	Rear	DFT-s-OFDM QPSK	0	5	1	137	1:1	0.048	29.6	
2 592.99	518598	NR Band n41 SRS3	Close	F	100	16.43	Front	DFT-s-OFDM QPSK	0	5	1	137	1:1	0.223	22.9	
2 592.99	518598	NR Band n41 SRS4	Open	C	100	15.44	Rear	DFT-s-OFDM QPSK	0	5	1	137	1:1	0.077	26.6	19.3
2 592.99	518598	NR Band n41 SRS4	Open	C	100	15.44	Front	DFT-s-OFDM QPSK	0	5	1	137	1:1	0.093	25.8	
2 592.99	518598	NR Band n41 SRS4	Close	C	100	15.44	Rear	DFT-s-OFDM QPSK	0	5	1	137	1:1	0.183	22.8	
2 592.99	518598	NR Band n41 SRS4	Close	C	100	15.44	Front	DFT-s-OFDM QPSK	0	5	1	137	1:1	0.409	19.3	

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	Minimum Plimit
MHz	Ch.															
					MHz	(dBm)			(dB)					(W/kg)	(dBm)	(dBm)
3 750	650000	NR Band n77	Open	F	100	14.78	Rear	DFT-s-OFDM QPSK	0	5	1	137	1:1	0.511	17.7	18.2
3 750	650000	NR Band n77	Open	F	100	14.78	Front	DFT-s-OFDM QPSK	0	5	1	137	1:1	0.128	23.7	
3 750	650000	NR Band n77	Close	F	100	14.78	Rear	DFT-s-OFDM QPSK	0	5	1	137	1:1	0.023	31.2	
3 750	650000	NR Band n77	Close	F	100	14.78	Front	DFT-s-OFDM QPSK	0	5	1	137	1:1	0.459	18.2	
3 750	650000	NR n77 SRS2	Open	I	100	13.90	Rear	DFT-s-OFDM QPSK	0	5	1	137	1:1	0.170	21.6	21.1
3 750	650000	NR n77 SRS2	Open	I	100	13.90	Front	DFT-s-OFDM QPSK	0	5	1	137	1:1	0.130	22.8	
3 750	650000	NR n77 SRS2	Close	I	100	13.90	Rear	DFT-s-OFDM QPSK	0	5	1	137	1:1	0.025	29.9	
3 750	650000	NR n77 SRS2	Close	I	100	13.90	Front	DFT-s-OFDM QPSK	0	5	1	137	1:1	0.190	21.1	
3 750	650000	NR n77 SRS3	Open	E	100	13.60	Rear	DFT-s-OFDM QPSK	0	5	1	137	1:1	0.046	27.0	22.4
3 750	650000	NR n77 SRS3	Open	E	100	13.60	Front	DFT-s-OFDM QPSK	0	5	1	137	1:1	0.079	24.6	
3 750	650000	NR n77 SRS3	Close	E	100	13.60	Rear	DFT-s-OFDM QPSK	0	5	1	137	1:1	0.133	22.4	
3 750	650000	NR n77 SRS3	Close	E	100	13.60	Front	DFT-s-OFDM QPSK	0	5	1	137	1:1	0.064	25.5	
3 750	650000	NR n77 SRS4	Open	C	100	13.42	Rear	DFT-s-OFDM QPSK	0	5	1	137	1:1	0.091	23.8	22.7
3 750	650000	NR n77 SRS4	Open	C	100	13.42	Front	DFT-s-OFDM QPSK	0	5	1	137	1:1	0.117	22.7	
3 750	650000	NR n77 SRS4	Close	C	100	13.42	Rear	DFT-s-OFDM QPSK	0	5	1	137	1:1	0.073	24.8	
3 750	650000	NR n77 SRS4	Close	C	100	13.42	Front	DFT-s-OFDM QPSK	0	5	1	137	1:1	0.023	29.8	

Table A-7 RSI = 2,4 P_{Limit} Calculations – 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)
1 732.4	1412	UMTS Band 4	RMC	Open	I	16.45	Rear	5	1:1	0.467	19.8	18.0
1 732.4	1412	UMTS Band 4	RMC	Open	I	16.45	Front	5	1:1	0.394	20.5	
1 732.4	1412	UMTS Band 4	RMC	Open	I	16.45	Left	5	1:1	0.705	18.0	
1 732.4	1412	UMTS Band 4	RMC	Open	I	16.45	Right	5	1:1	0.025	32.5	
1 732.4	1412	UMTS Band 4	RMC	Open	I	16.45	Bottom	5	1:1	0.025	32.5	
1 732.4	1412	UMTS Band 4	RMC	Close	I	16.45	Rear	5	1:1	0.297	21.7	
1 732.4	1412	UMTS Band 4	RMC	Close	I	16.45	Front	5	1:1	0.542	19.1	
1 732.4	1412	UMTS Band 4	RMC	Close	I	16.45	Left	5	1:1	0.002	43.4	
1 732.4	1412	UMTS Band 4	RMC	Close	I	16.45	Right	5	1:1	0.016	34.4	
1 880	9400	UMTS Band 2	RMC	Open	I	15.87	Rear	5	1:1	0.333	20.6	17.1
1 880	9400	UMTS Band 2	RMC	Open	I	15.87	Front	5	1:1	0.286	21.3	
1 880	9400	UMTS Band 2	RMC	Open	I	15.87	Right	5	1:1	0.753	17.1	
1 880	9400	UMTS Band 2	RMC	Open	I	15.87	Top	5	1:1	0.032	30.8	
1 880	9400	UMTS Band 2	RMC	Close	I	15.87	Rear	5	1:1	0.030	31.1	
1 880	9400	UMTS Band 2	RMC	Close	I	15.87	Front	5	1:1	0.478	19.1	
1 880	9400	UMTS Band 2	RMC	Close	I	15.87	Right	5	1:1	0.737	17.2	
1 880	9400	UMTS Band 2	RMC	Close	I	15.87	Top	5	1:1	0.002	42.9	
1 880	9400	UMTS Band 2	RMC	Close	I	15.87	Bottom	5	1:1	0.026	31.7	

Table A-8 RSI = 2,4 P_{Limit} Calculations – 4G Hotspot SAR

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

MEASUREMENT RESULTS															
Frequency		Mode	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)
2 535	21100	LTE Band 7	Open	I	20	16.32	Rear	5	0	1	49	1:1	0.393	20.4	17.7
2 535	21100	LTE Band 7	Open	I	20	16.32	Front	5	0	1	49	1:1	0.450	19.8	
2 535	21100	LTE Band 7	Open	I	20	16.32	Right	5	0	1	49	1:1	0.723	17.7	
2 535	21100	LTE Band 7	Open	I	20	16.32	Top	5	0	1	49	1:1	0.046	29.7	
2 535	21100	LTE Band 7	Close	I	20	16.32	Rear	5	0	1	49	1:1	0.077	27.5	
2 535	21100	LTE Band 7	Close	I	20	16.32	Front	5	0	1	49	1:1	0.476	19.5	
2 535	21100	LTE Band 7	Close	I	20	16.32	Right	5	0	1	49	1:1	0.491	19.4	
2 535	21100	LTE Band 7	Close	I	20	16.32	Top	5	0	1	49	1:1	0.020	33.3	
2 535	21100	LTE Band 7	Close	I	20	16.32	Bottom	5	0	1	49	1:1	0.057	28.8	
1 882.5	26365	LTE Band 25	Open	I	20	15.88	Rear	5	0	1	49	1:1	0.319	20.8	16.4
1 882.5	26365	LTE Band 25	Open	I	20	15.88	Front	5	0	1	49	1:1	0.056	28.4	
1 882.5	26365	LTE Band 25	Open	I	20	15.88	Right	5	0	1	49	1:1	0.887	16.4	
1 882.5	26365	LTE Band 25	Open	I	20	15.88	Top	5	0	1	49	1:1	0.041	29.8	
1 882.5	26365	LTE Band 25	Close	I	20	15.88	Rear	5	0	1	49	1:1	0.002	42.9	
1 882.5	26365	LTE Band 25	Close	I	20	15.88	Front	5	0	1	49	1:1	0.529	18.6	
1 882.5	26365	LTE Band 25	Close	I	20	15.88	Right	5	0	1	49	1:1	0.872	16.5	
1 882.5	26365	LTE Band 25	Close	I	20	15.88	Top	5	0	1	49	1:1	0.012	35.1	
1 882.5	26365	LTE Band 25	Close	I	20	15.88	Bottom	5	0	1	49	1:1	0.030	31.1	
2 310	27710	LTE Band 30	Open	I	10	15.30	Rear	5	0	1	24	1:1	0.376	19.5	15.8
2 310	27710	LTE Band 30	Open	I	10	15.30	Front	5	0	1	24	1:1	0.315	20.3	
2 310	27710	LTE Band 30	Open	I	10	15.30	Right	5	0	1	24	1:1	0.896	15.8	
2 310	27710	LTE Band 30	Open	I	10	15.30	Top	5	0	1	24	1:1	0.031	30.4	
2 310	27710	LTE Band 30	Close	I	10	15.30	Rear	5	0	1	24	1:1	0.052	28.1	
2 310	27710	LTE Band 30	Close	I	10	15.30	Front	5	0	1	24	1:1	0.502	18.3	
2 310	27710	LTE Band 30	Close	I	10	15.30	Right	5	0	1	24	1:1	0.378	19.5	
2 310	27710	LTE Band 30	Close	I	10	15.30	Top	5	0	1	24	1:1	0.027	31.0	
2 310	27710	LTE Band 30	Close	I	10	15.30	Bottom	5	0	1	24	1:1	0.040	29.3	
2 549.5	40185	LTE Band 41	Open	I	20	16.96	Rear	5	0	1	49	1:1.58	0.432	20.6	17.6
2 549.5	40185	LTE Band 41	Open	I	20	16.96	Front	5	0	1	49	1:1.58	0.398	21.0	
2 549.5	40185	LTE Band 41	Open	I	20	16.96	Right	5	0	1	49	1:1.58	0.686	18.6	
2 549.5	40185	LTE Band 41	Open	I	20	16.96	Top	5	0	1	49	1:1.58	0.045	30.4	
2 549.5	40185	LTE Band 41	Close	I	20	16.96	Rear	5	0	1	49	1:1.58	0.096	27.1	
2 549.5	40185	LTE Band 41	Close	I	20	16.96	Front	5	0	1	49	1:1.58	0.429	20.6	
2 549.5	40185	LTE Band 41	Close	I	20	16.96	Right	5	0	1	49	1:1.58	0.867	17.6	
2 549.5	40185	LTE Band 41	Close	I	20	16.96	Top	5	0	1	49	1:1.58	0.030	32.2	
2 549.5	40185	LTE Band 41	Close	I	20	16.96	Bottom	5	0	1	49	1:1.58	0.068	28.6	

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)
1770	132572	LTE Band 66	Open	I	20	15.83	Rear	5	0	1	49	1:1	0.645	17.7	16.2
1770	132572	LTE Band 66	Open	I	20	15.83	Front	5	0	1	49	1:1	0.106	25.6	
1770	132572	LTE Band 66	Open	I	20	15.83	Right	5	0	1	49	1:1	0.911	16.2	
1770	132572	LTE Band 66	Open	I	20	15.83	Top	5	0	1	49	1:1	0.024	32.0	
1770	132572	LTE Band 66	Close	I	20	15.83	Rear	5	0	1	49	1:1	0.010	35.8	
1770	132572	LTE Band 66	Close	I	20	15.83	Front	5	0	1	49	1:1	0.445	19.3	
1770	132572	LTE Band 66	Close	I	20	15.83	Right	5	0	1	49	1:1	0.790	16.9	
1770	132572	LTE Band 66	Close	I	20	15.83	Top	5	0	1	49	1:1	0.008	36.8	
1770	132572	LTE Band 66	Close	I	20	15.83	Bottom	5	0	1	49	1:1	0.022	32.4	

Table A-9 RSI = 2,4 *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.

SAR measurements of all 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)
2 535	507000	NR Band n7	Open	I	40	16.06	Rear	DFT-s-OFDM QPSK	0	5	1	1	1:1	0.194	23.2	18.1
2 535	507000	NR Band n7	Open	I	40	16.06	Front	DFT-s-OFDM QPSK	0	5	1	1	1:1	0.317	21.0	
2 535	507000	NR Band n7	Open	I	40	16.06	Right	DFT-s-OFDM QPSK	0	5	1	1	1:1	0.630	18.1	
2 535	507000	NR Band n7	Open	I	40	16.06	Top	DFT-s-OFDM QPSK	0	5	1	1	1:1	0.029	31.4	
2 535	507000	NR Band n7	Close	I	40	16.06	Rear	DFT-s-OFDM QPSK	0	5	1	1	1:1	0.045	29.1	
2 535	507000	NR Band n7	Close	I	40	16.06	Front	DFT-s-OFDM QPSK	0	5	1	1	1:1	0.404	19.5	
2 535	507000	NR Band n7	Close	I	40	16.06	Right	DFT-s-OFDM QPSK	0	5	1	1	1:1	0.581	18.4	
2 535	507000	NR Band n7	Close	I	40	16.06	Top	DFT-s-OFDM QPSK	0	5	1	1	1:1	0.060	28.3	
2 535	507000	NR Band n7	Close	I	40	16.06	Bottom	DFT-s-OFDM QPSK	0	5	1	1	1:1	0.017	33.8	
1 882.5	376500	NR Band n25	Open	I	40	16.23	Rear	DFT-s-OFDM QPSK	0	5	1	108	1:1	0.541	18.9	16.8
1 882.5	376500	NR Band n25	Open	I	40	16.23	Front	DFT-s-OFDM QPSK	0	5	1	108	1:1	0.200	23.2	
1 882.5	376500	NR Band n25	Open	I	40	16.23	Right	DFT-s-OFDM QPSK	0	5	1	108	1:1	0.868	16.8	
1 882.5	376500	NR Band n25	Open	I	40	16.23	Top	DFT-s-OFDM QPSK	0	5	1	108	1:1	0.050	29.2	
1 882.5	376500	NR Band n25	Open	I	40	16.23	Rear	DFT-s-OFDM QPSK	0	5	1	108	1:1	0.047	29.5	
1 882.5	376500	NR Band n25	Close	I	40	16.23	Front	DFT-s-OFDM QPSK	0	5	1	108	1:1	0.458	19.6	
1 882.5	376500	NR Band n25	Close	I	40	16.23	Right	DFT-s-OFDM QPSK	0	5	1	108	1:1	0.883	16.8	
1 882.5	376500	NR Band n25	Close	I	40	16.23	Top	DFT-s-OFDM QPSK	0	5	1	108	1:1	0.004	40.2	
1 882.5	376500	NR Band n25	Open	I	40	16.23	Bottom	DFT-s-OFDM QPSK	0	5	1	108	1:1	0.048	29.4	
2 310	462000	NR Band n30	Open	I	10	15.59	Rear	DFT-s-OFDM QPSK	0	5	1	26	1:1	0.387	19.7	16.6
2 310	462000	NR Band n30	Open	I	10	15.59	Front	DFT-s-OFDM QPSK	0	5	1	26	1:1	0.141	24.1	
2 310	462000	NR Band n30	Open	I	10	15.59	Right	DFT-s-OFDM QPSK	0	5	1	26	1:1	0.789	16.6	
2 310	462000	NR Band n30	Open	I	10	15.59	Top	DFT-s-OFDM QPSK	0	5	1	26	1:1	0.001	45.6	
2 310	462000	NR Band n30	Close	I	10	15.59	Rear	DFT-s-OFDM QPSK	0	5	1	26	1:1	0.045	29.1	
2 310	462000	NR Band n30	Close	I	10	15.59	Front	DFT-s-OFDM QPSK	0	5	1	26	1:1	0.404	19.5	
2 310	462000	NR Band n30	Close	I	10	15.59	Right	DFT-s-OFDM QPSK	0	5	1	26	1:1	0.510	18.5	
2 310	462000	NR Band n30	Close	I	10	15.59	Top	DFT-s-OFDM QPSK	0	5	1	26	1:1	0.014	34.1	
2 310	462000	NR Band n30	Open	I	10	15.59	Bottom	DFT-s-OFDM QPSK	0	5	1	26	1:1	0.042	29.4	

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)
2 592.99	518598	NR Band n41	Open	I	100	18.17	Right	DFT-s-OFDM QPSK	0	5	1	271	1:1	0.690	19.8	19.8
2 592.99	518598	NR Band n41	Open	I	100	18.17	Top	DFT-s-OFDM QPSK	0	5	1	271	1:1	0.038	32.4	
2 592.99	518598	NR Band n41	Close	I	100	18.17	Left	DFT-s-OFDM QPSK	0	5	1	271	1:1	0.429	21.8	
2 592.99	518598	NR Band n41	Close	I	100	18.17	Bottom	DFT-s-OFDM QPSK	0	5	1	271	1:1	0.015	36.4	
2 592.99	518598	NR Band n41	Close	I	100	18.17	Rear	DFT-s-OFDM QPSK	0	5	1	271	1:1	0.049	31.3	
2 592.99	518598	NR n41 SRS2	Open	B	100	14.58	Left	DFT-s-OFDM QPSK	0	5	1	137	1:1	0.157	22.6	21.7
2 592.99	518598	NR n41 SRS2	Open	B	100	14.58	Bottom	DFT-s-OFDM QPSK	0	5	1	137	1:1	0.192	21.7	
2 592.99	518598	NR n41 SRS2	Close	B	100	14.58	Left	DFT-s-OFDM QPSK	0	5	1	137	1:1	0.076	25.8	
2 592.99	518598	NR n41 SRS2	Close	B	100	14.58	Bottom	DFT-s-OFDM QPSK	0	5	1	137	1:1	0.110	24.2	
2 592.99	518598	NR n41 SRS3	Open	F	100	15.68	Left	DFT-s-OFDM QPSK	0	5	1	137	1:1	0.538	18.4	20.4
2 592.99	518598	NR n41 SRS3	Open	F	100	15.68	Top	DFT-s-OFDM QPSK	0	5	1	137	1:1	0.161	23.6	
2 592.99	518598	NR n41 SRS3	Close	F	100	15.68	Left	DFT-s-OFDM QPSK	5	5	1	137	1:1	0.335	20.4	
2 592.99	518598	NR n41 SRS3	Close	F	100	15.68	Bottom	DFT-s-OFDM QPSK	5	5	1	137	1:1	0.180	23.1	
2 592.99	518598	NR n41 SRS3	Close	F	100	15.68	Top	DFT-s-OFDM QPSK	5	5	1	137	1:1	0.017	33.4	
2 592.99	518598	NR n41 SRS4	Open	C	100	14.75	Left	DFT-s-OFDM QPSK	5	5	1	137	1:1	0.170	22.4	22.4
2 592.99	518598	NR n41 SRS4	Open	C	100	14.75	Bottom	DFT-s-OFDM QPSK	5	5	1	137	1:1	0.011	34.3	
2 592.99	518598	NR n41 SRS4	Close	C	100	14.75	Left	DFT-s-OFDM QPSK	5	5	1	137	1:1	0.173	22.4	
2 592.99	518598	NR n41 SRS4	Close	C	100	14.75	Top	DFT-s-OFDM QPSK	5	5	1	137	1:1	0.118	24.0	
2 592.99	518598	NR n41 SRS4	Close	C	100	14.75	Bottom	DFT-s-OFDM QPSK	5	5	1	137	1:1	0.011	34.3	

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	Minimum Plimit
MHz	Ch.															
1 745	349000	NR Band n66	Open	I	40	16.40	Rear	DFT-s-OFDM QPSK	0	5	1	214	1:1	0.463	19.7	17.6
1 745	349000	NR Band n66	Open	I	40	16.40	Front	DFT-s-OFDM QPSK	0	5	1	214	1:1	0.243	22.5	
1 745	349000	NR Band n66	Open	I	40	16.40	Right	DFT-s-OFDM QPSK	0	5	1	214	1:1	0.751	17.6	
1 745	349000	NR Band n66	Open	I	40	16.40	Top	DFT-s-OFDM QPSK	0	5	1	214	1:1	0.027	32.1	
1 745	349000	NR Band n66	Close	I	40	16.40	Rear	DFT-s-OFDM QPSK	0	5	1	214	1:1	0.032	31.3	
1 745	349000	NR Band n66	Close	I	40	16.40	Front	DFT-s-OFDM QPSK	0	5	1	214	1:1	0.282	21.9	
1 745	349000	NR Band n66	Close	I	40	16.40	Right	DFT-s-OFDM QPSK	0	5	1	214	1:1	0.572	18.8	
1 745	349000	NR Band n66	Close	I	40	16.40	Top	DFT-s-OFDM QPSK	0	5	1	214	1:1	0.001	46.4	
1 745	349000	NR Band n66	Close	I	40	16.40	Bottom	DFT-s-OFDM QPSK	0	5	1	214	1:1	0.022	33.0	
1 702.5	340500	NR Band n70	Open	I	15	16.22	Rear	DFT-s-OFDM QPSK	0	5	1	1	1:1	0.587	18.5	16.9
1 702.5	340500	NR Band n70	Open	I	15	16.22	Front	DFT-s-OFDM QPSK	0	5	1	1	1:1	0.484	19.4	
1 702.5	340500	NR Band n70	Open	I	15	16.22	Right	DFT-s-OFDM QPSK	0	5	1	1	1:1	0.859	16.9	
1 702.5	340500	NR Band n70	Open	I	15	16.22	Top	DFT-s-OFDM QPSK	0	5	1	1	1:1	0.023	32.6	
1 702.5	340500	NR Band n70	Close	I	15	16.22	Rear	DFT-s-OFDM QPSK	0	5	1	1	1:1	0.019	33.4	
1 702.5	340500	NR Band n70	Close	I	15	16.22	Front	DFT-s-OFDM QPSK	0	5	1	1	1:1	0.414	20.0	
1 702.5	340500	NR Band n70	Close	I	15	16.22	Right	DFT-s-OFDM QPSK	0	5	1	1	1:1	0.813	17.1	
1 702.5	340500	NR Band n70	Close	I	15	16.22	Top	DFT-s-OFDM QPSK	0	5	1	1	1:1	0.001	46.2	
1 702.5	340500	NR Band n70	Close	I	15	16.22	Bottom	DFT-s-OFDM QPSK	0	5	1	1	1:1	0.015	34.5	

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	Minimum Plimit
MHz	Ch.				MHz	(dBm)			(dB)					(W/kg)	(dBm)	(dBm)
1 702.5	340500	NR Band n70	Open	I	15	16.22	Rear	DFT-s-OFDM QPSK	0	5	1	1	1:1	0.587	18.5	16.9
1 702.5	340500	NR Band n70	Open	I	15	16.22	Front	DFT-s-OFDM QPSK	0	5	1	1	1:1	0.484	19.4	
1 702.5	340500	NR Band n70	Open	I	15	16.22	Right	DFT-s-OFDM QPSK	0	5	1	1	1:1	0.859	16.9	
1 702.5	340500	NR Band n70	Open	I	15	16.22	Top	DFT-s-OFDM QPSK	0	5	1	1	1:1	0.023	32.6	
1 702.5	340500	NR Band n70	Close	I	15	16.22	Rear	DFT-s-OFDM QPSK	0	5	1	1	1:1	0.019	33.4	
1 702.5	340500	NR Band n70	Close	I	15	16.22	Front	DFT-s-OFDM QPSK	0	5	1	1	1:1	0.414	20.0	
1 702.5	340500	NR Band n70	Close	I	15	16.22	Right	DFT-s-OFDM QPSK	0	5	1	1	1:1	0.813	17.1	
1 702.5	340500	NR Band n70	Close	I	15	16.22	Top	DFT-s-OFDM QPSK	0	5	1	1	1:1	0.001	46.2	
1 702.5	340500	NR Band n70	Close	I	15	16.22	Bottom	DFT-s-OFDM QPSK	0	5	1	1	1:1	0.015	34.5	
3 930	662000	NR Band n77	Open	F	100	14.78	Rear	DFT-s-OFDM QPSK	0	5	1	137	1:1	0.511	17.7	17.7
3 930	662000	NR Band n77	Open	F	100	14.78	Front	DFT-s-OFDM QPSK	0	5	1	137	1:1	0.128	23.7	
3 930	662000	NR Band n77	Open	F	100	14.78	Left	DFT-s-OFDM QPSK	0	5	1	137	1:1	0.506	17.7	
3 930	662000	NR Band n77	Open	F	100	14.78	Top	DFT-s-OFDM QPSK	0	5	1	137	1:1	0.201	21.7	
3 930	662000	NR Band n77	Close	F	100	14.78	Rear	DFT-s-OFDM QPSK	0	5	1	137	1:1	0.023	31.2	
3 930	662000	NR Band n77	Close	F	100	14.78	Front	DFT-s-OFDM QPSK	0	5	1	137	1:1	0.459	18.2	
3 930	662000	NR Band n77	Close	F	100	14.78	Left	DFT-s-OFDM QPSK	0	5	1	137	1:1	0.414	18.6	
3 930	662000	NR Band n77	Close	F	100	14.78	Bottom	DFT-s-OFDM QPSK	0	5	1	137	1:1	0.093	25.1	
3 500.01	633334	NR Band n77 DoD	Open	F	100	14.96	Left	DFT-s-OFDM QPSK	0	5	1	271	1:1	0.357	19.4	19.4
3 500.01	633334	NR Band n77 DoD	Close	F	100	14.96	Left	DFT-s-OFDM QPSK	0	5	1	271	1:1	0.349	19.5	

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	Minimum Plimit
MHz	Ch.				MHz	(dBm)			(dB)					(W/kg)	(dBm)	(dBm)
3 750	650000	NR n77 SRS2	Open	I	100	13.90	Rear	DFT-s-OFDM QPSK	0	5	1	137	1:1	0.170	21.6	18.3
3 750	650000	NR n77 SRS2	Open	I	100	13.90	Front	DFT-s-OFDM QPSK	0	5	1	137	1:1	0.130	22.8	
3 750	650000	NR n77 SRS2	Open	I	100	13.90	Right	DFT-s-OFDM QPSK	0	5	1	137	1:1	0.361	18.3	
3 750	650000	NR n77 SRS2	Open	I	100	13.90	Top	DFT-s-OFDM QPSK	0	5	1	137	1:1	0.020	30.9	
3 750	650000	NR n77 SRS2	Close	I	100	13.90	Rear	DFT-s-OFDM QPSK	0	5	1	137	1:1	0.025	29.9	
3 750	650000	NR n77 SRS2	Close	I	100	13.90	Front	DFT-s-OFDM QPSK	0	5	1	137	1:1	0.190	21.1	
3 750	650000	NR n77 SRS2	Close	I	100	13.90	Right	DFT-s-OFDM QPSK	0	5	1	137	1:1	0.349	18.5	
3 750	650000	NR n77 SRS2	Close	I	100	13.90	Top	DFT-s-OFDM QPSK	0	5	1	137	1:1	0.030	29.1	
3 750	650000	NR n77 SRS2	Close	I	100	13.90	Bottom	DFT-s-OFDM QPSK	0	5	1	137	1:1	0.020	30.9	
3 500.01	633334	NR n77 DoD SRS2	Open	I	100	13.89	Right	DFT-s-OFDM QPSK	0	5	1	137	1:1	0.525	16.7	16.7
3 500.01	633334	NR n77 DoD SRS2	Close	I	100	13.89	Right	DFT-s-OFDM QPSK	0	5	1	137	1:1	0.373	18.2	
3 750	650000	NR n77 SRS3	Open	E	100	13.60	Rear	DFT-s-OFDM QPSK	0	5	1	137	1:1	0.046	27.0	22.0
3 750	650000	NR n77 SRS3	Open	E	100	13.60	Front	DFT-s-OFDM QPSK	0	5	1	137	1:1	0.079	24.6	
3 750	650000	NR n77 SRS3	Open	E	100	13.60	Left	DFT-s-OFDM QPSK	0	5	1	137	1:1	0.097	23.7	
3 750	650000	NR n77 SRS3	Open	E	100	13.60	Top	DFT-s-OFDM QPSK	0	5	1	137	1:1	0.025	29.6	
3 750	650000	NR n77 SRS3	Close	E	100	13.60	Rear	DFT-s-OFDM QPSK	0	5	1	137	1:1	0.133	22.4	
3 750	650000	NR n77 SRS3	Close	E	100	13.60	Front	DFT-s-OFDM QPSK	0	5	1	137	1:1	0.064	25.0	
3 750	650000	NR n77 SRS3	Close	E	100	13.60	Left	DFT-s-OFDM QPSK	0	5	1	137	1:1	0.145	22.0	
3 750	650000	NR n77 SRS3	Close	E	100	13.60	Top	DFT-s-OFDM QPSK	0	5	1	137	1:1	0.022	30.2	
3 750	650000	NR n77 SRS3	Close	E	100	13.60	Bottom	DFT-s-OFDM QPSK	0	5	1	137	1:1	0.058	26.0	
3 500.01	633334	NR n77 DoD SRS3	Open	E	100	13.49	Left	DFT-s-OFDM QPSK	0	5	1	137	1:1	0.096	23.7	20.9
3 500.01	633334	NR n77 DoD SRS3	Close	E	100	13.49	Left	DFT-s-OFDM QPSK	0	5	1	137	1:1	0.180	20.9	
3 750	650000	NR n77 SRS4	Open	C	100	13.42	Rear	DFT-s-OFDM QPSK	0	5	1	137	1:1	0.091	23.8	19.6
3 750	650000	NR n77 SRS4	Open	C	100	13.42	Front	DFT-s-OFDM QPSK	0	5	1	137	1:1	0.117	22.7	
3 750	650000	NR n77 SRS4	Open	C	100	13.42	Right	DFT-s-OFDM QPSK	0	5	1	137	1:1	0.240	19.6	
3 750	650000	NR n77 SRS4	Open	C	100	13.42	Top	DFT-s-OFDM QPSK	0	5	1	137	1:1	0.014	32.0	
3 750	650000	NR n77 SRS4	Close	C	100	13.42	Rear	DFT-s-OFDM QPSK	0	5	1	137	1:1	0.073	24.8	
3 750	650000	NR n77 SRS4	Close	C	100	13.42	Front	DFT-s-OFDM QPSK	0	5	1	137	1:1	0.023	29.8	
3 750	650000	NR n77 SRS4	Close	C	100	13.42	Right	DFT-s-OFDM QPSK	0	5	1	137	1:1	0.210	20.2	
3 750	650000	NR n77 SRS4	Close	C	100	13.42	Top	DFT-s-OFDM QPSK	0	5	1	137	1:1	0.004	37.4	
3 750	650000	NR n77 SRS4	Close	C	100	13.42	Bottom	DFT-s-OFDM QPSK	0	5	1	137	1:1	0.002	43.3	
3 500.01	633334	NR n77 DoD SRS4	Open	C	100	13.12	Left	DFT-s-OFDM QPSK	0	5	1	137	1:1	0.285	18.6	18.4
3 500.01	633334	NR n77 DoD SRS4	Close	C	100	13.12	Left	DFT-s-OFDM QPSK	0	5	1	137	1:1	0.236	19.4	