

TEST REPORT

FCC SAR Part 0 Test for SM-F766B
Class II Permissive Change

APPLICANT
SAMSUNG Electronics Co., Ltd.

REPORT NO.
HCT-SR-2506-FC012

DATE OF ISSUE
June 18, 2025

Tested by
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PART 0 SAR Test
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FCC ID

A3LSMF766B

Applicant

SAMSUNG Electronics Co., Ltd

129, Samsung-ro, Yeongtong-gu, Suwon-Si, Gyeonggi-do, 16677, Korea

Product Name

Mobile Phone

Model Name

SM-F766B

Application Type

Class II Permissive Change

Date of Test

Jun. 09, 2025 ~ Jun. 17, 2025

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	Jun. 18, 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.
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-F766B
Equipment Type	Mobile Phone
FCC ID	A3LSMF766B
Application Type	Class II Permissive Change
Applicant	SAMSUNG Electronics Co., Ltd.
Test Note	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 basic model [Report no: HCT-SR-2505-FC008-R2]. The C2PC changes in this model do not affect the Main TAS algorithm and can be represented by the original model's TAS test report. [Report no: HCT-SR-2505-FC009] Please refer to the technical documentation for detailed C2PC changes.

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 12	Voice / Data	699.7 MHz ~ 715.3 MHz
LTE FDD Band 13	Voice / Data	779.5 MHz ~ 784.5 MHz
LTE FDD Band 17	Voice / Data	706.5 MHz ~ 713.5 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 TDD Band 41	Voice / Data	2 498.5 MHz ~ 2 687.5 MHz
LTE FDD Band 66 (AWS)	Voice / Data	1 710.7 MHz ~ 1 779.3 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 n25 (PCS)	Voice / Data	1 852.5 MHz ~ 1 912.5 MHz
NR TDD Band n41	Voice / Data	2 501.01 MHz ~ 2 685 MHz
NR FDD Band n66	Voice / Data	1 712.5 MHz ~ 1 777.5 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
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	5 935 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 ~ 2 472 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.

The Samsung S.LSI proprietary TAS algorithm maintains the time-averaged transmit power, in turn, time-averaged RF exposure of SAR_design_target or PD_design_target, below the predefined time-averaged power limit (i.e., Plimit for sub-6 radio and WLAN for each characterized technology and bands.)

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.

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 Pmax, when needed, but enforces power limiting to maintain time-averaged transmit power to Plimit. Below table shows Plimit NV settings and maximum tune up output power Pmax 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 Plimit specified by manufacturer.

SAR Characterization confirms that Plimit 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 in A3LSMF766B_SAR Part 2 Report_Main report[Report no.: HCT-SR-2505-FC009]

The validation of The Qualcomm Fast connect TAS algorithm and compliance under the time- varying transmission scenario for WLAN technologies are reported in A3LSMF766B_SAR Part 2 Report_WLAN report[Report No: HCT-SR-2505-FC010].

2.3 Nomenclature for Part 0 Report

Technology	Term	Description
2G/3G/4G/5G Sub6NR/ 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 (ρ). It is also defined as the rate of RF energy absorption per unit mass at a point in an absorbing body

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

SAR Mathematical Equation

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

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

Where:

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

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

3.2 SAR Measurement Procedure

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

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

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

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

Scenario	Description	SAR Test Cases
Head (RSI = 1)	Device positioned next to head	Head SAR per KDB Publication 648474 D04
Flip Open Body (RSI = 0)	Device Flip open Device being used with a body-worn accessory	Body-worn SAR per KDB Publication 648474D04
Flip Open Body (RSI = 2)	Device Flip open Device transmits in hotspot mode near body Extremity SAR	Hotspot SAR per KDB Publication 941225 D06 Phablet SAR per KDB Publication 648474 D04
Flip Close Body (RSI = 3)	Device Flip close Device being used with a body-worn accessory	Body-worn SAR per KDB Publication 648474D04
Flip Close Body (RSI = 4)	Device Flip close 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).

<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 *WWAN SAR_design_target* Calculations

4.3 SAR Characterization

SAR test results corresponding to Pmax for each antenna/technology/band/RSI 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

Plim values in green indicate Plimit < Pmax			Plim values in grey indicate Plim > Pmax			
Plimit corresponding to 1 W/kg (1g) 2.5W/kg(10g) SAR_Design_target						Pmax
SAR Exposure Position			Head (RCV ON)	Body Worn (Open Body / Closed Body)	Hotspot (Open Body / Closed Body)	Maximum Tune-up Output Power (Frame Average Power) [dBm]
Averaging volume			1g	1g	1g	
separation Distance			0 mm	5 mm	5 mm	
Mode	Band	Antenna	RSI=1	RSI=0,3	RSI=2,4	
NR TDD SRS 1	n41	I	11.0	24.0	21.4	13.0
NR TDD SRS 1	n41	B	11.0	23.0	22.9	13.0
NR TDD SRS 0	n77	F	N/A	N/A	13.5	26.5
NR TDD SRS 1	n77	I	N/A	N/A	13.5	26.5
NR TDD SRS 2	n77	E	N/A	N/A	13.5	26.5
NR TDD SRS 3	n77	C	N/A	N/A	13.5	25.5
NR TDD SRS 0	n77(DoD)	F	N/A	N/A	13.5	26.5
NR TDD SRS 1	n77(DoD)	I	N/A	N/A	13.5	26.5
NR TDD SRS 2	n77(DoD)	E	N/A	N/A	13.5	26.5
NR TDD SRS 3	n77(DoD)	C	N/A	N/A	13.5	25.5

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., GSM, LTE TDD).
2. The maximum time-averaged output power (dBm) for any 2G/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	CS8Cspeag-TX90	F11/ 5K3RA1/ C/ 01	N/A	N/A	N/A
Staubli	TX90 Lspeag	F11/ 5K3RA1/ A/ 01	N/A	N/A	N/A
Staubli	D21142603	S-1203 0309	N/A	N/A	N/A
TESTO	175-H1/Thermometer	40331936309	12/26/2024	Annual	12/26/2025
Staubli	CS8Cspeag-TX90	F12/ 5K9GA1/ C/ 01	N/A	N/A	N/A
Staubli	TX90 XLspeag	F12/ 5K9GA1/ A/ 01	N/A	N/A	N/A
Staubli	Teach Pendant (Joystick)	S-1206 0513	N/A	N/A	N/A
TESTO	175-H1/Thermometer	40331936309	12/26/2024	Annual	12/26/2025
Staubli	CS8Cspeag-TX90	F13/ 5R4XF1/ C/ 01	N/A	N/A	N/A
Staubli	TX90 XLspeag	F13/ 5R4XF1/ A/ 01	N/A	N/A	N/A
Staubli	D21142605	S-1338 1332	N/A	N/A	N/A
TESTO	175-H1/Thermometer	40331953309	01/16/2025	Annual	01/16/2026
Staubli	CS8Cspeag-TX90	F17/ 59CHA1/ C/ 01	N/A	N/A	N/A
Staubli	TX90 XLspeag	F17/ 59CHA1/ A/ 01	N/A	N/A	N/A
Staubli	Teach Pendant (Joystick)	010963	N/A	N/A	N/A
TESTO	175-H1/Thermometer	40331915309	12/26/2024	Annual	12/26/2025
SPEAG	DAE4	868	09/19/2024	Annual	09/19/2025
SPEAG	DAE4	1687	07/12/2024	Annual	07/12/2025
SPEAG	DAE4	446	03/19/2025	Annual	03/19/2026
SPEAG	DAE4	1750	09/13/2024	Annual	09/13/2025
SPEAG	E-Field Probe EX3DV4	7732	06/19/2024	Annual	06/19/2025
SPEAG	E-Field Probe EX3DV4	7679	08/22/2024	Annual	08/22/2025
SPEAG	E-Field Probe EX3DV4	3903	07/31/2024	Annual	07/31/2025
SPEAG	E-Field Probe ES3DV3	3076	07/17/2024	Annual	07/17/2025
SPEAG	Dipole D1800V2	2d015	04/17/2025	Annual	04/17/2026
SPEAG	Dipole D1900V2	5d061	01/20/2025	Annual	01/20/2026
SPEAG	Dipole D2600V2	1106	04/15/2025	Annual	04/15/2026
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	1019	05/21/2025	Annual	05/21/2026
Agilent	Power Meter E4419B	MY41291386	09/11/2024	Annual	09/11/2025
Agilent	Power Meter N1911A	MY45101406	05/19/2025	Annual	05/19/2026
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	05/20/2025	Annual	05/20/2026
EMPOWER	RF Power Amplifier	1041D/C0508	05/20/2025	Annual	05/20/2026
EMPOWER	RF Power Amplifier	1011	09/11/2024	Annual	09/11/2025

Manufacturer	Type / Model	S/N	Calib. Date	Calib.Interval	Calib.Due
MICRO LAB	LP Filter / LA-15N	10453	09/11/2024	Annual	09/11/2025
MICRO LAB	LP Filter / LA-30N	-	09/11/2024	Annual	09/11/2025
MICRO LAB	LP Filter / LA-30N	32011	09/11/2024	Annual	09/11/2025
Agilent	Attenuator (3dB) 8693B	MY39260298	08/20/2024	Annual	08/20/2025
HP	Attenuator (20dB) 8493C	09271	08/21/2024	Annual	08/21/2025
Agilent	Directional Bridge 86205A	3140A04581	04/18/2025	Annual	04/18/2026
Agilent	MXA Signal Analyzer N9020A	MY50510407	06/09/2025	Annual	06/09/2026
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	05/21/2025	Annual	05/21/2026

* 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 – 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)
1 905	25900	LTE Band 25	I	20	17.04	Left Cheek	0	1	49	1:1	0.290	22.4	22.4
1 905	25900	LTE Band 25	I	20	17.04	Left Tilt	0	1	49	1:1	0.059	29.3	
1 905	25900	LTE Band 25	I	20	17.04	Right Cheek	0	1	49	1:1	0.066	28.8	
1 905	25900	LTE Band 25	I	20	17.04	Right Tilt	0	1	49	1:1	0.030	32.3	
1 770	132572	LTE Band 66	I	20	18.05	Left Cheek	0	1	49	1:1	0.260	23.9	23.9
1 770	132572	LTE Band 66	I	20	18.05	Left Tilt	0	1	49	1:1	0.057	30.5	
1 770	132572	LTE Band 66	I	20	18.05	Right Cheek	0	1	49	1:1	0.084	28.8	
1 770	132572	LTE Band 66	I	20	18.05	Right Tilt	0	1	49	1:1	0.031	33.1	

Table A-2 RSI = 1 P_{Limit} Calculations – NR Head SAR

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

NR TDD Bands : In the case of the NR TDD bands, the *P_{Limit}* 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)	P _{limit}	Minimum P _{limit}
MHz	Ch.			(dBm)	(dBm)			(dB)				(W/kg)	(dBm)	(dBm)
2 592.99	518598	NR Band n41(PC3)	B	100	24.45	Left Cheek	DFT-s-OFDM QPSK	0	1	1	1:1	0.014	43.0	43.0
2 592.99	518598	NR Band n41(PC3)	B	100	24.45	Left Tilt	DFT-s-OFDM QPSK	0	1	1	1:1	0.008	45.4	
2 592.99	518598	NR Band n41(PC3)	B	100	24.45	Right Cheek	DFT-s-OFDM QPSK	0	1	1	1:1	0.011	44.0	
2 592.99	518598	NR Band n41(PC3)	B	100	24.45	Right Tilt	DFT-s-OFDM QPSK	0	1	1	1:1	0.003	49.7	
2 592.99	518598	NR Band n41(SRS1)	I	100	11.74	Left Cheek	DFT-s-OFDM QPSK	0	1	137	1:1	0.386	15.9	15.9
2 592.99	518598	NR Band n41(SRS1)	I	100	11.74	Left Tilt	DFT-s-OFDM QPSK	0	1	137	1:1	0.076	22.9	
2 592.99	518598	NR Band n41(SRS1)	I	100	11.74	Right Cheek	DFT-s-OFDM QPSK	0	1	137	1:1	0.073	23.1	
2 592.99	518598	NR Band n41(SRS1)	I	100	11.74	Right Tilt	DFT-s-OFDM QPSK	0	1	137	1:1	0.015	30.0	
2 592.99	518598	NR Band n41(SRS2)	C	100	23.11	Left Cheek	DFT-s-OFDM QPSK	0	1	137	1:1	0.265	28.9	28.9
2 592.99	518598	NR Band n41(SRS2)	C	100	23.11	Left Tilt	DFT-s-OFDM QPSK	0	1	137	1:1	0.053	35.9	
2 592.99	518598	NR Band n41(SRS2)	C	100	23.11	Right Cheek	DFT-s-OFDM QPSK	0	1	137	1:1	0.165	30.9	
2 592.99	518598	NR Band n41(SRS2)	C	100	23.11	Right Tilt	DFT-s-OFDM QPSK	0	1	137	1:1	0.099	33.2	
2 592.99	518598	NR Band n41(SRS3)	G	100	17.12	Left Cheek	DFT-s-OFDM QPSK	0	1	137	1:1	0.229	23.5	19.2
2 592.99	518598	NR Band n41(SRS3)	G	100	17.12	Left Tilt	DFT-s-OFDM QPSK	0	1	137	1:1	0.182	24.5	
2 592.99	518598	NR Band n41(SRS3)	G	100	17.12	Right Cheek	DFT-s-OFDM QPSK	0	1	137	1:1	0.615	19.2	
2 592.99	518598	NR Band n41(SRS3)	G	100	17.12	Right Tilt	DFT-s-OFDM QPSK	0	1	137	1:1	0.613	19.2	
2 592.99	518598	NR Band n41(PC3)	I	100	15.78	Left Cheek	DFT-s-OFDM QPSK	0	1	1	1:1	0.600	18.0	18.0
2 592.99	518598	NR Band n41(PC3)	I	100	15.78	Left Tilt	DFT-s-OFDM QPSK	0	1	1	1:1	0.092	26.1	
2 592.99	518598	NR Band n41(PC3)	I	100	15.78	Right Cheek	DFT-s-OFDM QPSK	0	1	1	1:1	0.168	23.5	
2 592.99	518598	NR Band n41(PC3)	I	100	15.78	Right Tilt	DFT-s-OFDM QPSK	0	1	1	1:1	0.037	30.1	
2 592.99	518598	NR Band n41(SRS1)	B	100	11.95	Left Cheek	DFT-s-OFDM QPSK	0	1	137	1:1	0.012	31.2	30.8
2 592.99	518598	NR Band n41(SRS1)	B	100	11.95	Left Tilt	DFT-s-OFDM QPSK	0	1	137	1:1	0.005	35.0	
2 592.99	518598	NR Band n41(SRS1)	B	100	11.95	Right Cheek	DFT-s-OFDM QPSK	0	1	137	1:1	0.013	30.8	
2 592.99	518598	NR Band n41(SRS1)	B	100	11.95	Right Tilt	DFT-s-OFDM QPSK	0	1	137	1:1	0.005	35.0	

Table A-3 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	(dBm)			(dB)				(W/kg)		
1905	26590	LTE Band 25	Open	I	20	18.63	Rear	5	0	1	49	1:1	0.189	25.9	22.6
1905	26590	LTE Band 25	Open	I	20	18.63	Front	5	0	1	49	1:1	0.282	24.1	
1905	26590	LTE Band 25	Open	I	20	18.63	Right	5	0	1	49	1:1	0.405	22.6	
1905	26590	LTE Band 25	Open	I	20	18.63	Top	5	0	1	49	1:1	0.033	33.4	
1905	26590	LTE Band 25	Close	I	20	18.63	Rear	5	0	1	49	1:1	0.025	34.7	
1905	26590	LTE Band 25	Close	I	20	18.63	Front	5	0	1	49	1:1	0.210	25.4	
1905	26590	LTE Band 25	Close	I	20	18.63	Right	5	0	1	49	1:1	0.379	22.8	
1905	26590	LTE Band 25	Close	I	20	18.63	Top	5	0	1	49	1:1	0.009 65	38.6	
1905	26590	LTE Band 25	Close	I	20	18.63	Bottom	5	0	1	49	1:1	0.013	37.5	

Table A-4 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.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
2 592.99	518598	NR Band n41	Open	B	100	20.90	Rear	DFT-s-OFDM QPSK	0	5	1	1	1:1	0.417	24.7	24.7
2 592.99	518598	NR Band n41	Open	B	100	20.90	Front	DFT-s-OFDM QPSK	0	5	1	1	1:1	0.201	27.9	
2 592.99	518598	NR Band n41	Open	B	100	20.90	Left	DFT-s-OFDM QPSK	0	5	1	1	1:1	0.059	33.2	
2 592.99	518598	NR Band n41	Open	B	100	20.90	Bottom	DFT-s-OFDM QPSK	0	5	1	1	1:1	0.375	25.2	
2 592.99	518598	NR Band n41	Close	B	100	20.90	Rear	DFT-s-OFDM QPSK	0	5	1	1	1:1	0.375	25.2	
2 592.99	518598	NR Band n41	Close	B	100	20.90	Front	DFT-s-OFDM QPSK	0	5	1	1	1:1	0.062	33.0	
2 592.99	518598	NR Band n41	Close	B	100	20.90	Left	DFT-s-OFDM QPSK	0	5	1	1	1:1	0.058	33.3	
2 592.99	518598	NR Band n41	Close	B	100	20.90	Bottom	DFT-s-OFDM QPSK	0	5	1	1	1:1	0.238	27.1	
2 592.99	518598	NR Band n41 SRS1	Open	I	100	13.96	Rear	DFT-s-OFDM QPSK	0	5	1	137	1:1	0.098	24.0	21.4
2 592.99	518598	NR Band n41 SRS1	Open	I	100	13.96	Front	DFT-s-OFDM QPSK	0	5	1	137	1:1	0.098	24.0	
2 592.99	518598	NR Band n41 SRS1	Open	I	100	13.96	Right	DFT-s-OFDM QPSK	0	5	1	137	1:1	0.182	21.4	
2 592.99	518598	NR Band n41 SRS1	Open	I	100	13.96	Top	DFT-s-OFDM QPSK	0	5	1	137	1:1	0.028	29.5	
2 592.99	518598	NR Band n41 SRS1	Close	I	100	13.96	Rear	DFT-s-OFDM QPSK	0	5	1	137	1:1	0.044	27.5	
2 592.99	518598	NR Band n41 SRS1	Close	I	100	13.96	Front	DFT-s-OFDM QPSK	0	5	1	137	1:1	0.053	26.7	
2 592.99	518598	NR Band n41 SRS1	Close	I	100	13.96	Right	DFT-s-OFDM QPSK	0	5	1	137	1:1	0.149	22.2	
2 592.99	518598	NR Band n41 SRS1	Close	I	100	13.96	Top	DFT-s-OFDM QPSK	0	5	1	137	1:1	0.000	N/A	
2 592.99	518598	NR Band n41 SRS1	Close	I	100	13.96	Bottom	DFT-s-OFDM QPSK	0	5	1	137	1:1	0.022	30.5	25.4
2 592.99	518598	NR Band n41 SRS2	Open	C	100	21.33	Rear	DFT-S-OFDM QPSK	0	5	1	137	1:1	0.649	25.4	
2 592.99	518598	NR Band n41 SRS2	Open	C	100	21.33	Front	DFT-S-OFDM QPSK	0	5	1	137	1:1	0.401	34.8	
2 592.99	518598	NR Band n41 SRS2	Open	C	100	21.33	Left	DFT-S-OFDM QPSK	0	5	1	137	1:1	0.68	25.9	
2 592.99	518598	NR Band n41 SRS2	Open	C	100	21.33	Bottom	DFT-S-OFDM QPSK	0	5	1	137	1:1	0.078	38.3	
2 592.99	518598	NR Band n41 SRS2	Close	C	100	21.33	Rear	DFT-S-OFDM QPSK	0	5	1	137	1:1	0.396	33.0	
2 592.99	518598	NR Band n41 SRS2	Close	C	100	21.33	Front	DFT-S-OFDM QPSK	0	5	1	137	1:1	0.045	25.4	
2 592.99	518598	NR Band n41 SRS2	Close	C	100	21.33	Left	DFT-S-OFDM QPSK	0	5	1	137	1:1	0.348	34.8	
2 592.99	518598	NR Band n41 SRS2	Close	C	100	21.33	Top	DFT-S-OFDM QPSK	0	5	1	137	1:1	0.020	25.9	19.4
2 592.99	518598	NR Band n41 SRS2	Close	C	100	21.33	Bottom	DFT-S-OFDM QPSK	0	5	1	137	1:1	0.068	38.3	
2 592.99	518598	NR Band n41 SRS3	Open	G	100	15.3	Rear	DFT-S-OFDM QPSK	0	5	1	137	1:1	0.388	19.4	
2 592.99	518598	NR Band n41 SRS3	Open	G	100	15.3	Front	DFT-S-OFDM QPSK	0	5	1	137	1:1	0.267	21.0	
2 592.99	518598	NR Band n41 SRS3	Open	G	100	15.3	Left	DFT-S-OFDM QPSK	0	5	1	137	1:1	0.073	26.7	
2 592.99	518598	NR Band n41 SRS3	Open	G	100	15.3	Top	DFT-S-OFDM QPSK	0	5	1	137	1:1	0.323	20.2	
2 592.99	518598	NR Band n41 SRS3	Close	G	100	15.3	Rear	DFT-S-OFDM QPSK	0	5	1	137	1:1	0.055	27.9	
2 592.99	518598	NR Band n41 SRS3	Close	G	100	15.3	Front	DFT-S-OFDM QPSK	0	5	1	137	1:1	0.301	20.5	
2 592.99	518598	NR Band n41 SRS3	Close	G	100	15.3	Left	DFT-S-OFDM QPSK	0	5	1	137	1:1	0.129	24.2	
2 592.99	518598	NR Band n41 SRS3	Close	G	100	15.3	Top	DFT-S-OFDM QPSK	0	5	1	137	1:1	0.000	N/A	
2 592.99	518598	NR Band n41 SRS3	Close	G	100	15.3	Bottom	DFT-S-OFDM QPSK	0	5	1	137	1:1	0.326	20.2	

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	Open	I	100	18.49	Rear	DFT-s-OFDM QPSK	0	5	1	1	1:1	0.608	20.7	19.5
2 592.99	518598	NR Band n41	Open	I	100	18.49	Front	DFT-s-OFDM QPSK	0	5	1	1	1:1	0.531	21.2	
2 592.99	518598	NR Band n41	Open	I	100	18.49	Left	DFT-s-OFDM QPSK	0	5	1	1	1:1	0.790	19.5	
2 592.99	518598	NR Band n41	Open	I	100	18.49	Top	DFT-s-OFDM QPSK	0	5	1	1	1:1	0.154	26.6	
2 592.99	518598	NR Band n41	Close	I	100	18.49	Rear	DFT-s-OFDM QPSK	0	5	1	1	1:1	0.236	24.8	
2 592.99	518598	NR Band n41	Close	I	100	18.49	Front	DFT-s-OFDM QPSK	0	5	1	1	1:1	0.454	21.9	
2 592.99	518598	NR Band n41	Close	I	100	18.49	Left	DFT-s-OFDM QPSK	0	5	1	1	1:1	0.659	20.3	
2 592.99	518598	NR Band n41	Close	I	100	18.49	Top	DFT-s-OFDM QPSK	0	5	1	1	1:1	0.021	35.3	
2 592.99	518598	NR Band n41	Close	I	100	18.49	Bottom	DFT-s-OFDM QPSK	0	5	1	1	1:1	0.132	27.3	
2 592.99	518598	NR Band n41 SRS1	Open	B	100	13.98	Rear	DFT-S-OFDM QPSK	0	5	1	137	1:1	0.124	23.0	22.9
2 592.99	518598	NR Band n41 SRS1	Open	B	100	13.98	Front	DFT-S-OFDM QPSK	0	5	1	137	1:1	0.07	25.5	
2 592.99	518598	NR Band n41 SRS1	Open	B	100	13.98	Left	DFT-S-OFDM QPSK	0	5	1	137	1:1	0.022	30.6	
2 592.99	518598	NR Band n41 SRS1	Open	B	100	13.98	Bottom	DFT-S-OFDM QPSK	0	5	1	137	1:1	0.127	22.9	
2 592.99	518598	NR Band n41 SRS1	Close	B	100	13.98	Rear	DFT-S-OFDM QPSK	0	5	1	137	1:1	0.125	23.0	
2 592.99	518598	NR Band n41 SRS1	Close	B	100	13.98	Front	DFT-S-OFDM QPSK	0	5	1	137	1:1	0.012	33.2	
2 592.99	518598	NR Band n41 SRS1	Close	B	100	13.98	Left	DFT-S-OFDM QPSK	0	5	1	137	1:1	0.037	28.3	
2 592.99	518598	NR Band n41 SRS1	Close	B	100	13.98	Top	DFT-S-OFDM QPSK	0	5	1	137	1:1	0.0008	44.0	
2 592.99	518598	NR Band n41 SRS1	Close	B	100	13.98	Bottom	DFT-S-OFDM QPSK	0	5	1	137	1:1	0.118	23.3	

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)
3 750	650000	NR Band n77(PC2)	Open	F	100	14.39	Rear	DFT-S-OFDM QPSK	0	5	1	1	1:1	0.084	25.1	20.9
3 750	650000	NR Band n77(PC2)	Open	F	100	14.39	Front	DFT-S-OFDM QPSK	0	5	1	1	1:1	0.068	26.1	
3 750	650000	NR Band n77(PC2)	Open	F	100	14.39	Left	DFT-S-OFDM QPSK	0	5	1	1	1:1	0.147	22.7	
3 750	650000	NR Band n77(PC2)	Open	F	100	14.39	Top	DFT-S-OFDM QPSK	0	5	1	1	1:1	0.152	22.6	
3 750	650000	NR Band n77(PC2)	Close	F	100	14.39	Rear	DFT-S-OFDM QPSK	0	5	1	1	1:1	0.039	28.5	
3 750	650000	NR Band n77(PC2)	Close	F	100	14.39	Front	DFT-S-OFDM QPSK	0	5	1	1	1:1	0.114	23.8	
3 750	650000	NR Band n77(PC2)	Close	F	100	14.39	Left	DFT-S-OFDM QPSK	0	5	1	1	1:1	0.224	20.9	
3 750	650000	NR Band n77(PC2)	Close	F	100	14.39	Top	DFT-S-OFDM QPSK	0	5	1	1	1:1	0.146	22.7	
3 500.01	633334	NR Band n77 DoD(PC2)	Open	F	100	14.39	Left	DFT-S-OFDM QPSK	0	5	1	1	1:1	0.187	21.8	21.8
3 500.01	633334	NR Band n77 DoD(PC2)	Close	F	100	14.39	Left	DFT-S-OFDM QPSK	0	5	1	1	1:1	0.107	24.2	
3 930	662000	NR Band n77 SRS1	Open	I	100	14.30	Rear	DFT-S-OFDM QPSK	0	5	1	137	1:1	0.071	25.8	25.8
3 930	662000	NR Band n77 SRS1	Open	I	100	14.30	Front	DFT-S-OFDM QPSK	0	5	1	137	1:1	0.071	25.8	
3 930	662000	NR Band n77 SRS1	Open	I	100	14.30	Right	DFT-S-OFDM QPSK	0	5	1	137	1:1	0.025	30.3	
3 930	662000	NR Band n77 SRS1	Open	I	100	14.30	Top	DFT-S-OFDM QPSK	0	5	1	137	1:1	0.000	N/A	
3 930	662000	NR Band n77 SRS1	Close	I	100	14.30	Rear	DFT-S-OFDM QPSK	0	5	1	137	1:1	0.000	N/A	
3 930	662000	NR Band n77 SRS1	Close	I	100	14.30	Front	DFT-S-OFDM QPSK	0	5	1	137	1:1	0.048	27.5	
3 930	662000	NR Band n77 SRS1	Close	I	100	14.30	Right	DFT-S-OFDM QPSK	0	5	1	137	1:1	0.047	27.6	
3 930	662000	NR Band n77 SRS1	Close	I	100	14.30	Top	DFT-S-OFDM QPSK	0	5	1	137	1:1	0.000	N/A	
3 930	662000	NR Band n77 SRS1	Close	I	100	14.30	Bottom	DFT-S-OFDM QPSK	0	5	1	137	1:1	0.000	N/A	
3 500.01	633334	NR Band n77 DoD SRS1	Open	I	100	14.21	Rear	DFT-S-OFDM QPSK	0	5	1	137	1:1	0.072	25.6	24.9
3 500.01	633334	NR Band n77 DoD SRS1	Close	I	100	14.21	Front	DFT-S-OFDM QPSK	0	5	1	137	1:1	0.085	24.9	
3 930	662000	NR Band n77 SRS2	Open	E	100	14.33	Rear	DFT-S-OFDM QPSK	0	5	1	137	1:1	0.159	22.3	22.3
3 930	662000	NR Band n77 SRS2	Open	E	100	14.33	Front	DFT-S-OFDM QPSK	0	5	1	137	1:1	0.095	24.6	
3 930	662000	NR Band n77 SRS2	Open	E	100	14.33	Left	DFT-S-OFDM QPSK	0	5	1	137	1:1	4.21E-06	N/A	
3 930	662000	NR Band n77 SRS2	Open	E	100	14.33	Top	DFT-S-OFDM QPSK	0	5	1	137	1:1	0.000 341	N/A	
3 930	662000	NR Band n77 SRS2	Close	E	100	14.33	Rear	DFT-S-OFDM QPSK	0	5	1	137	1:1	0.023	30.7	
3 930	662000	NR Band n77 SRS2	Close	E	100	14.33	Front	DFT-S-OFDM QPSK	0	5	1	137	1:1	0.100	24.3	
3 930	662000	NR Band n77 SRS2	Close	E	100	14.33	Left	DFT-S-OFDM QPSK	0	5	1	137	1:1	0.000125	N/A	
3 930	662000	NR Band n77 SRS2	Close	E	100	14.33	Top	DFT-S-OFDM QPSK	0	5	1	137	1:1	0.00332	39.6	
3 930	662000	NR Band n77 SRS2	Close	E	100	14.33	Bottom	DFT-S-OFDM QPSK	0	5	1	137	1:1	0.00339	39.6	
3 500.01	633334	NR Band n77 DoD SRS2	Open	E	100	14.43	Rear	DFT-S-OFDM QPSK	0	5	1	137	1:1	0.080	25.4	25.4
3 500.01	633334	NR Band n77 DoD SRS2	Close	E	100	14.43	Front	DFT-S-OFDM QPSK	0	5	1	137	1:1	0.031	29.5	

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.													(W/kg)	(dBm)	(dBm)
3 750	650000	NR Band n77 SRS3	Open	C	100	14.33	Rear	DFT-S-OFDM QPSK	0	5	1	137	1:1	0.090	24.8	22.5
3 750	650000	NR Band n77 SRS3	Open	C	100	14.33	Front	DFT-S-OFDM QPSK	0	5	1	137	1:1	0.092	24.7	
3 750	650000	NR Band n77 SRS3	Open	C	100	14.33	Left	DFT-S-OFDM QPSK	0	5	1	137	1:1	0.122	23.5	
3 750	650000	NR Band n77 SRS3	Open	C	100	14.33	Bottom	DFT-S-OFDM QPSK	0	5	1	137	1:1	0.076	25.5	
3 750	650000	NR Band n77 SRS3	Close	C	100	14.33	Rear	DFT-S-OFDM QPSK	0	5	1	137	1:1	0.034	29.0	
3 750	650000	NR Band n77 SRS3	Close	C	100	14.33	Front	DFT-S-OFDM QPSK	0	5	1	137	1:1	0.014	32.9	
3 750	650000	NR Band n77 SRS3	Close	C	100	14.33	Left	DFT-S-OFDM QPSK	0	5	1	137	1:1	0.154	22.5	
3 750	650000	NR Band n77 SRS3	Close	C	100	14.33	Top	DFT-S-OFDM QPSK	0	5	1	137	1:1	0.000	N/A	
3 750	650000	NR Band n77 SRS3	Close	C	100	14.33	Bottom	DFT-S-OFDM QPSK	0	5	1	137	1:1	0.035	28.9	
3 500.01	633334	NR Band n77 DoD SRS3	Open	C	100	13.90	Left	DFT-S-OFDM QPSK	0	5	1	137	1:1	0.132	22.7	22.3
3 500.01	633334	NR Band n77 DoD SRS3	Close	C	100	13.90	Left	DFT-S-OFDM QPSK	0	5	1	137	1:1	0.143	22.3	