



SAR TEST REPORT

No. 223T04Z80940-13

For

TCL Communication Ltd.

Tablet PC

Model Name: 9199S

with

Hardware Version: 05

Software Version: 4DS9

FCC ID: 2ACCJB217

Issued Date: 2024-03-07

Note:

The test results in this test report relate only to the devices specified in this report. This report shall not be reproduced except in full without the written approval of CTTL.

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**REPORT HISTORY**

Report Number	Revision	Issue Date	Description
23T04Z80940-13	Rev.0	2024-03-01	Initial creation of test report
23T04Z80940-13	Rev.1	2024-03-07	Added ENDC/CA status information in Section 11.2. Updated the antenna description in the photo report. Updated the power mechanism description in section 11 to align with the tune up file. The N48 test results are updated in the report.

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1 Test Laboratory

1.1. Introduction & Accreditation

Telecommunication Technology Labs, CAICT is an ISO/IEC 17025:2017 accredited test laboratory under American Association for Laboratory Accreditation (A2LA) with lab code 7049.01, and is also an FCC accredited test laboratory (CN1349), and ISED accredited test laboratory (CAB identifier:CN0066). The detail accreditation scope can be found on A2LA website.

1.2. Testing Location

Location 1: CTTL(huayuan North Road)

Address: No. 52, Huayuan North Road, Haidian District, Beijing,
P. R. China 100191

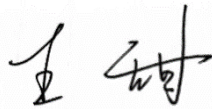
1.3. Testing Environment

Normal Temperature: 15-35°C
Extreme Temperature: -10/+55°C
Relative Humidity: 20-75%

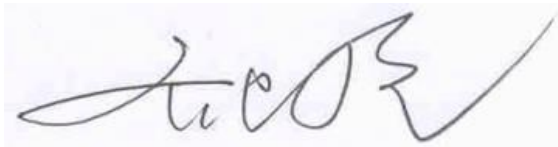
1.4. Project data

Testing Start Date: 2024-01-19
Testing End Date: 2024-02-29

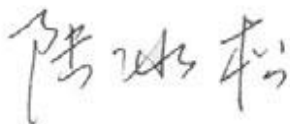
1.5. Signature



WangTian
(Prepared this test report)



Qi Dianyuan
(Reviewed this test report)



Lu Bingsong
Deputy Director of the laboratory
(Approved this test report)

2 Statement of Compliance

The maximum results of Specific Absorption Rate (SAR) found during testing for TCL Communication Ltd. Tablet PC 9199S are as follows:

Table 2.1: Highest Reported SAR (1g)

Mode		Antenna	Body SAR 1g (W/kg)	Equipment Class
GSM	GSM850	0	0.51	PCT
	GSM1900	0	1.04	
WCDMA	WCDMA 1900	2	1.26	
	WCDMA 1700	2	1.18	
	WCDMA 850	0	0.61	
LTE	LTE Band2	2	1.24	
	LTE Band5	0	0.87	
	LTE Band7	3	1.18	
	LTE Band12	0	1.12	
	LTE Band13	0	1.14	
	LTE Band48	5	1.27	
	LTE Band66	2	1.28	
NR	N2 ANT2	2	1.18	
	N5 ANT0	0	0.66	
	N48 ANT5	5	0.81	
	N66 ANT2	2	1.16	
	N77L ANT5	5	0.79	
	N77H ANT5	5	1.29	
	N78L ANT5	5	0.64	
	N78H ANT5	5	1.00	
WLAN 2.4 GHz		7	1.37	DTS
WLAN 5 GHz		7	0.82	NII
BT		7	0	DSS

The SAR values found for the Mobile Phone are below the maximum recommended levels of 1.6 W/kg as averaged over any 1g tissue according to the ANSI C95.1-1992.

For body operation, this device has been tested and meets FCC RF exposure guidelines when used with any accessory that contains no metal and which provides a minimum separation distance of 0mm/14mm/19mm/29mm/34mm between this device and the body of the user. Use of other accessories may not ensure compliance with FCC RF exposure guidelines.

The EUT battery must be fully charged and checked periodically during the test to ascertain uniform power output.

The measurement together with the test system set-up is described in annex C of this test report. A detailed description of the equipment under test can be found in chapter 4 of this test report. The highest reported SAR value is obtained at the case of **(Table 2.1)**, and the values are:

Body: 1.37 W/kg(1g)

Table 2.2: The sum of SAR values for Main antenna + WIFI+BT

	Position	LTE	WiFi	BT	Sum
Highest SAR value for Body	Rear 0mm	1.28 (LTEB66 ANT1)	0.29 (WIFI 5G)	0	1.57

According to the above tables, the highest sum of reported SAR values is **1.57 W/kg (1g)**. The detail for simultaneous transmission consideration is described in chapter 13.

Conclusion:

According to the above tables, the sum of reported SAR values is <1.6W/kg. So the simultaneous transmission SAR with volume scans is not required.

3 Client Information

3.1 Applicant Information

Company Name:	TCL Communication Ltd.
Address/Post:	5/F, Building 22E, 22 Science Park East Avenue, Hong Kong Science Park, Shatin, NT, Hong Kong
Contact Person:	Annie Jiang
Contact Email:	nianxiang.jiang@tcl.com
Telephone:	+86 755 3661 1621

3.2 Manufacturer Information

Company Name:	TCL Communication Ltd.
Address/Post:	5/F, Building 22E, 22 Science Park East Avenue, Hong Kong Science Park, Shatin, NT, Hong Kong
Contact Person:	Annie Jiang
Contact Email:	nianxiang.jiang@tcl.com
Telephone:	+86 755 3661 1621

4 Equipment Under Test (EUT) and Ancillary Equipment (AE)

4.1 About EUT

Description:	Tablet PC		
Model name:	9199S		
Operating mode(s):	GSM850/900/1800/1900 WCDMA850/900/1700/1900/2100 LTE Band1/2/3/4/5/7/12/13/17/20/28/48/66, 5G NR n2/n5/n48/n66/n77/n78 BT, Wi-Fi(2.4G&5G)		
Tested Tx Frequency:	824 – 849 MHz (GSM 850)		
	1850 – 1910 MHz (GSM 1900)		
	824–849 MHz (WCDMA 850 Band V)		
	1710 – 1755 MHz (WCDMA 1700 Band IV)		
	1850–1910 MHz (WCDMA1900 Band II)		
	1850 – 1910 MHz(LTE Band 2)		
	869 – 894 MHz (LTE Band 5)		
	2500 – 2570 MHz(LTE Band 7)		
	699 – 716 MHz (LTE Band 12)		
	777 –787 MHz (LTE Band 13)		
	3550 – 3700 MHz (LTE Band 48)		
	1710 – 1780 MHz (LTE Band 66)		
	2412 – 2462 MHz (Wi-Fi 2.4G)		
	5180 – 5240 MHz		(Wi-Fi 5G)
	5260 – 5320 MHz		
	5500 – 5720 MHz		
	5745 – 5825 MHz		
	2400 – 2483.5 MHz (Bluetooth)		
	1852.5 – 1907.5 MHz(n2)		
	824 – 849 MHz(n5)		
	3550 – 3700 MHz(n48)		
	1710– 1780 MHz (n66)		
	3450 – 3550 MHz (n77L)		
3700 – 3980 MHz (n77H)			
3450 – 3550 MHz (n78L)			
3700 – 3800 MHz (n78H)			
Test device production information:	Production unit		
Device type:	Portable device		
Antenna type:	Integrated antenna		

4.2 Internal Identification of EUT used during the test

EUT ID*	IMEI/SN	HW Version	SW Version
EUT1	354709280001999	05	4DS9
EUT2	354709280001957	05	4DS9
EUT3	354709280001981	05	4DS9
EUT4	354709280001254	05	4DS9
EUT5	354709280001247	05	4DS9
EUT6	354709280001163	05	4DS9

*EUT ID: is used to identify the test sample in the lab internally.

Note: It is performed to test SAR with the EUT1~3 and conducted power with the EUT4-6.

4.3 Internal Identification of AE used during the test

AE ID*	Description	Model	SN	Manufacturer
AE1	Battery	TLp058DA	/	TMB

*AE ID: is used to identify the test sample in the lab internally.

5 TEST METHODOLOGY

5.1 Applicable Limit Regulations

ANSI C95.1–1992: IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz.

It specifies the maximum exposure limit of **1.6 W/kg** as averaged over any 1 gram of tissue for portable devices being used within 20 cm of the user in the uncontrolled environment.

5.2 Applicable Measurement Standards

IEEE 1528–2013: Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques.

KDB447498 D01: General RF Exposure Guidance v06: Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies.

KDB616217 D04 SAR for laptop and tablets v01r02 SAR Evaluation Considerations for Laptop, Notebook, Notebook and Tablet Computers.

KDB648474 D04 Handset SAR v01r03: SAR Evaluation Considerations for Wireless Handsets.

KDB941225 D01 SAR test for 3G devices v03r01: SAR Measurement Procedures for 3G Devices

KDB941225 D05 SAR for LTE Devices v02r05: SAR Evaluation Considerations for LTE Devices

KDB941225 D06 Hotspot Mode SAR v02r01: SAR Evaluation Procedures for Portable Devices with Wireless Router Capabilities

KDB248227 D01 802.11 Wi-Fi SAR v02r02: SAR GUIDANCE FOR IEEE 802.11 (Wi-Fi) TRANSMITTERS

KDB865664 D01 SAR measurement 100 MHz to 6 GHz v01r04: SAR Measurement Requirements for 100 MHz to 6 GHz.

KDB865664 D02 RF Exposure Reporting v01r02: RF Exposure Compliance Reporting and Documentation Considerations

6 Specific Absorption Rate (SAR)

6.1 Introduction

SAR is related to the rate at which energy is absorbed per unit mass in an object exposed to a radio field. The SAR distribution in a biological body is complicated and is usually carried out by experimental techniques or numerical modeling. The standard recommends limits for two tiers of groups, occupational/controlled and general population/uncontrolled, based on a person's awareness and ability to exercise control over his or her exposure. In general, occupational/controlled exposure limits are higher than the limits for general population/uncontrolled.

6.2 SAR Definition

The SAR definition is the time derivative (rate) of the incremental energy (dW) absorbed by (dissipated in) an incremental mass (dm) contained in a volume element (dv) of a given density (ρ). The equation description is as below:

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

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

SAR measurement can be either related to the temperature elevation in tissue by

$$SAR = c \left(\frac{\delta T}{\delta t} \right)$$

Where: C is the specific heat capacity, δT is the temperature rise and δt is the exposure duration, or related to the electrical field in the tissue by

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

Where: σ is the conductivity of the tissue, ρ is the mass density of tissue and E is the RMS electrical field strength.

However for evaluating SAR of low power transmitter, electrical field measurement is typically applied.

7 Tissue Simulating Liquids

7.1 Targets for tissue simulating liquid

Table 7.1: Targets for tissue simulating liquid

Frequency(MHz)	Liquid Type	Conductivity(σ)	$\pm 5\%$ Range	Permittivity(ϵ)	$\pm 5\%$ Range
750	Head	0.89	0.85~0.93	41.94	39.8~44.0
835	Head	0.90	0.86~0.95	41.50	39.40~43.60
1800	Head	1.40	1.33~1.47	40.00	38.00~42.00
1900	Head	1.40	1.33~1.47	40.00	38.00~42.00
2300	Head	1.67	1.50~1.84	39.47	37.5~41.4
2450	Head	1.80	1.71~1.89	39.20	37.30~41.10
2600	Head	1.96	1.86~2.06	39.01	37.06~40.96
3500	Head	2.91	2.76~3.06	37.93	36.03~39.83
3700	Head	3.22	3.06~3.38	37.6	35.72~39.48
3900	Head	3.32	3.15~3.49	37.5	35.63~39.38
5250	Head	4.71	4.47~4.95	35.93	34.13~37.73
5600	Head	5.07	4.82~5.32	35.53	33.8~37.3
5750	Head	5.22	4.96~5.48	35.36	33.59~37.13

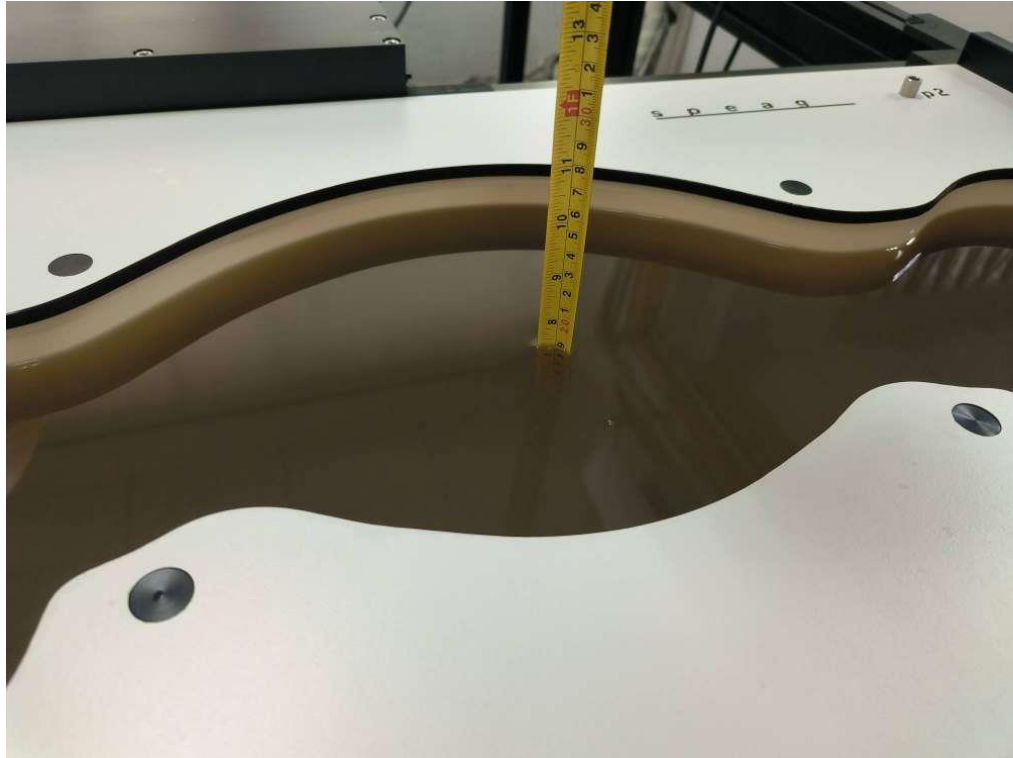
7.2 Dielectric Performance

Table 7.2: Dielectric Performance of Tissue Simulating Liquid

Measurement Date (yyyy-mm-dd)	Type	Frequency	Permittivity ϵ	Drift (%)	Conductivity σ (S/m)	Drift (%)
2024/1/19	Head	835 MHz	41.63	0.31	0.907	0.78
2024/1/20	Head	1750 MHz	40.03	-0.12	1.346	-1.75
2024/1/21	Head	1900 MHz	39.36	-1.60	1.404	0.29
2024/1/22	Head	3500 MHz	38.44	1.34	2.95	1.37
2024/1/23	Head	3700 MHz	38.7	2.65	2.989	-4.20
2024/2/13	Head	750 MHz	41.93	-0.02	0.908	2.02
2024/2/14	Head	835 MHz	41.27	-0.55	0.89	-1.11
2024/2/15	Head	1750 MHz	40.13	0.12	1.345	-1.82
2024/2/16	Head	1900 MHz	39.77	-0.57	1.413	0.93
2024/2/17	Head	2450 MHz	39.29	0.23	1.801	0.06
2024/2/18	Head	2600 MHz	39.6	1.51	1.974	0.71
2024/2/19	Head	5250 MHz	35.52	-1.14	4.677	-0.70
2024/2/20	Head	5600 MHz	35.39	-0.39	5.025	-0.89
2024/2/21	Head	5750 MHz	35.87	1.44	5.236	0.31
2024/2/22	Head	750 MHz	42.07	0.31	0.897	0.79
2024/2/23	Head	835 MHz	41.45	-0.12	0.884	-1.78
2024/2/24	Head	1750 MHz	39.44	-1.60	1.374	0.29
2024/2/25	Head	1900 MHz	39.33	-1.68	1.382	-1.29
2024/2/26	Head	2600 MHz	39.03	0.05	1.974	0.71
2024/2/27	Head	835 MHz	41.63	0.31	0.907	0.78
2024/2/28	Head	1750 MHz	40.03	-0.12	1.346	-1.75

2024/2/29	Head	1900 MHz	39.36	-1.60	1.404	0.29
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Note: The liquid temperature is 22.0°C

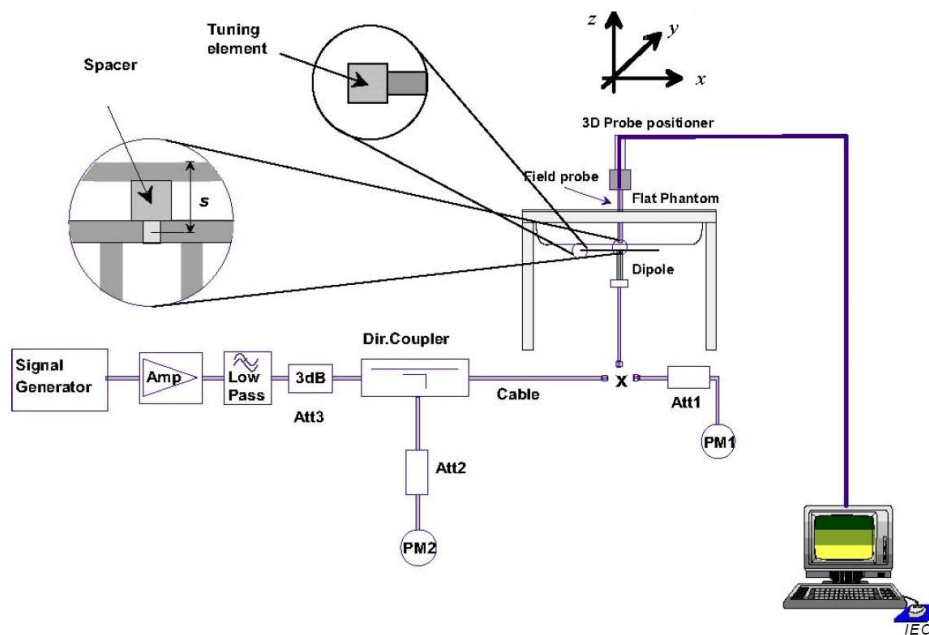


Picture 7-1 Liquid depth in the Flat Phantom

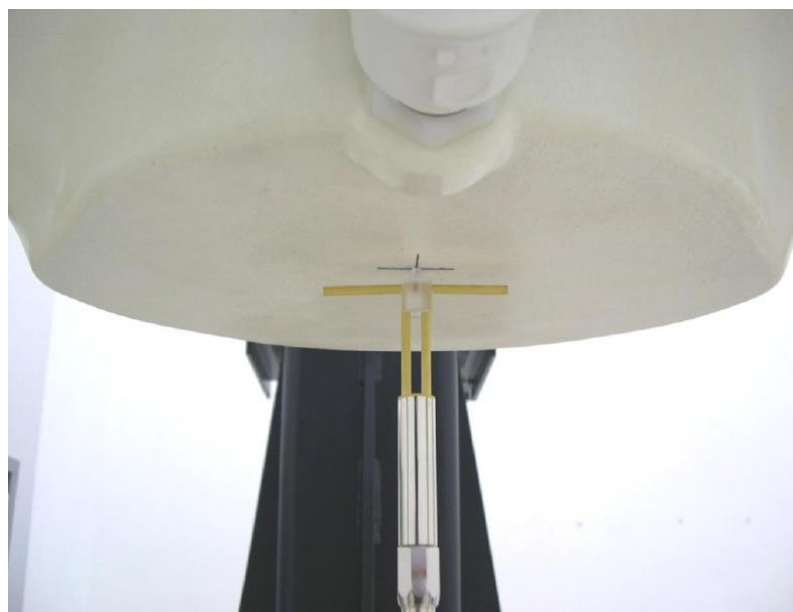
8 System verification

8.1 System Setup

In the simplified setup for system evaluation, the DUT is replaced by a calibrated dipole and the power source is replaced by a continuous wave that comes from a signal generator. The calibrated dipole must be placed beneath the flat phantom section of the SAM twin phantom with the correct distance holder. The distance holder should touch the phantom surface with a light pressure at the reference marking and be oriented parallel to the long side of the phantom. The equipment setup is shown below:



Picture 8.1 System Setup for System Evaluation



Picture 8.2 Photo of Dipole Setup

8.2 System Verification

SAR system verification is required to confirm measurement accuracy, according to the tissue dielectric media, probe calibration points and other system operating parameters required for measuring the SAR of a test device. The system verification must be performed for each frequency band and within the valid range of each probe calibration point required for testing the device.

The system verification results are required that the area scan estimated 1-g SAR is within 3% of the zoom scan 1-g SAR. The details are presented in annex B.

Table 8.1: System Verification of Head

Measurement Date (yyyy-mm-dd)	Frequency	Target value (W/kg)		Measured value(W/kg)		Deviation	
		10 g Average	1 g Average	10 g Average	1 g Average	10 g Average	1 g Average
2024/1/19	835 MHz	6.25	9.60	6.36	9.56	1.76%	-0.42%
2024/1/20	1750 MHz	19.1	36.5	18.92	36.8	-0.94%	0.82%
2024/1/21	1900 MHz	20.6	39.6	20.52	39.08	-0.39%	-1.31%
2024/1/22	3500 MHz	25.2	67.3	25.0	66.4	-0.95%	-1.40%
2024/1/23	3700 MHz	24.1	69.3	24.2	67.9	0.58%	-1.99%
2024/2/13	750 MHz	5.53	8.47	5.6	8.48	1.27%	0.12%
2024/2/14	835 MHz	6.25	9.60	6.32	9.44	1.12%	-1.67%
2024/2/15	1750 MHz	19.1	36.5	19.04	35.8	-0.31%	-1.92%
2024/2/16	1900 MHz	20.6	39.6	20.36	39.6	-1.17%	0.00%
2024/2/17	2450 MHz	24.5	52.5	24.52	53.08	0.08%	1.10%
2024/2/18	2600 MHz	25.3	57.0	25.44	56.12	0.55%	-1.54%
2024/2/19	5250 MHz	22.9	80.5	22.7	81.7	-0.96%	1.47%
2024/2/20	5600 MHz	23.6	83.3	24.0	84.8	1.69%	1.85%
2024/2/21	5750 MHz	22.7	80.4	22.8	81.7	0.62%	1.59%
2024/2/22	750 MHz	5.53	8.47	5.6	8.44	1.27%	-0.35%
2024/2/23	835 MHz	6.25	9.60	6.2	9.68	-0.80%	0.83%
2024/2/24	1750 MHz	19.1	36.5	19.04	36	-0.31%	-1.37%
2024/2/25	1900 MHz	20.6	39.6	20.96	39.68	1.75%	0.20%
2024/2/26	2600 MHz	25.3	57.0	25.04	56.2	-1.03%	-1.40%
2024/2/27	835 MHz	6.25	9.60	6.36	9.56	1.76%	-0.42%
2024/2/28	1750 MHz	19.1	36.5	18.92	36.8	-0.94%	0.82%
2024/2/29	1900 MHz	20.6	39.6	20.52	39.08	-0.39%	-1.31%

9 Measurement Procedures

9.1 Tests to be performed

In order to determine the highest value of the peak spatial-average SAR of a handset, all device positions, configurations and operational modes shall be tested for each frequency band according to steps 1 to 3 below. A flowchart of the test process is shown in picture 9.1.

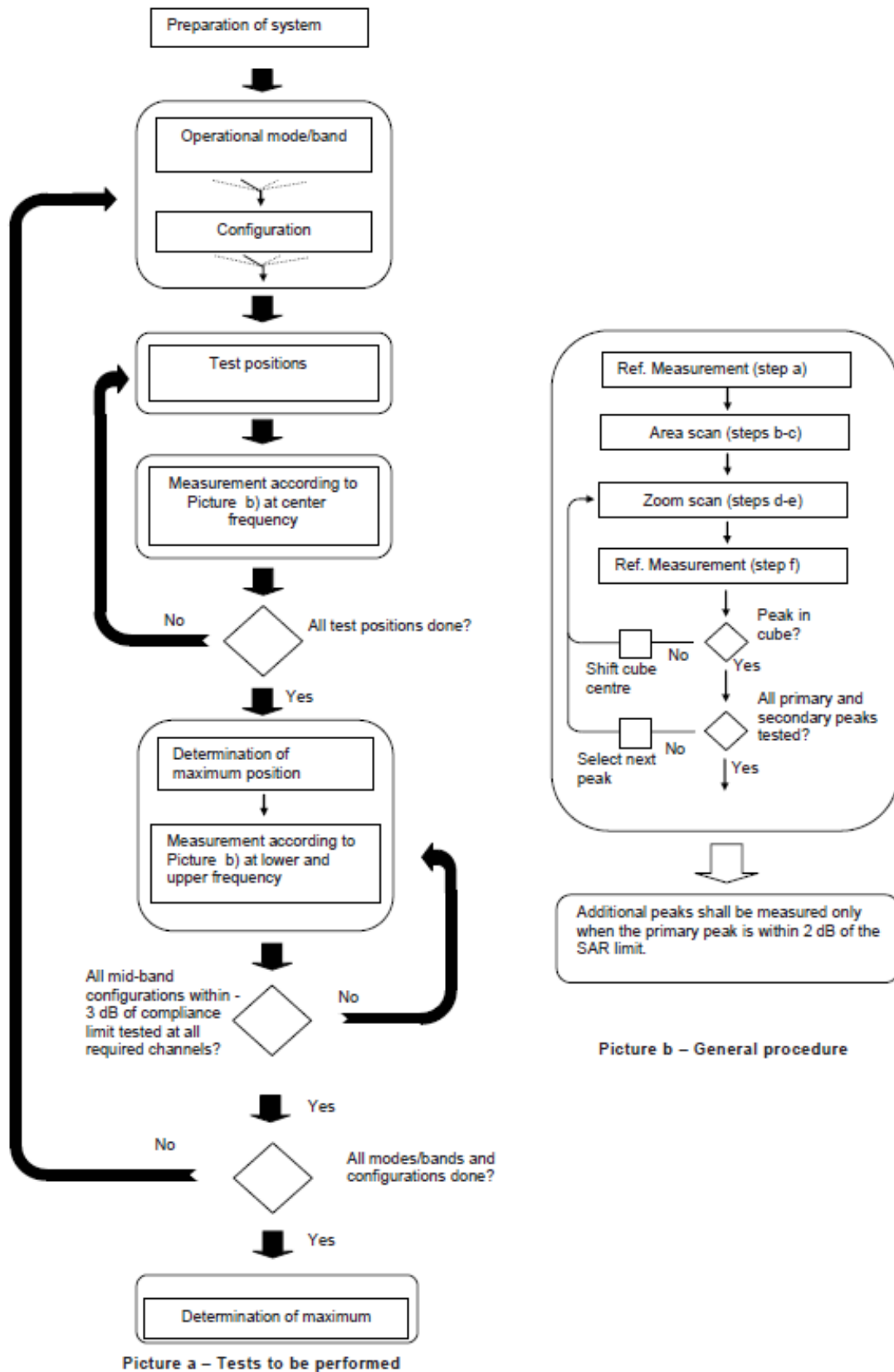
Step 1: The tests described in 9.2 shall be performed at the channel that is closest to the centre of the transmit frequency band (f_c) for:

- a) all device positions (cheek and tilt, for both left and right sides of the SAM phantom, as described in annex D),
- b) all configurations for each device position in a), e.g., antenna extended and retracted, and
- c) all operational modes, e.g., analogue and digital, for each device position in a) and configuration in b) in each frequency band.

If more than three frequencies need to be tested according to 11.1 (i.e., $N_c > 3$), then all frequencies, configurations and modes shall be tested for all of the above test conditions.

Step 2: For the condition providing highest peak spatial-average SAR determined in Step 1, perform all tests described in 9.2 at all other test frequencies, i.e., lowest and highest frequencies. In addition, for all other conditions (device position, configuration and operational mode) where the peak spatial-average SAR value determined in Step 1 is within 3 dB of the applicable SAR limit, it is recommended that all other test frequencies shall be tested as well.

Step 3: Examine all data to determine the highest value of the peak spatial-average SAR found in Steps 1 to 2.



Picture 9.1 Block diagram of the tests to be performed

9.2 General Measurement Procedure

The area and zoom scan resolutions specified in the table below must be applied to the SAR measurements and fully documented in SAR reports to qualify for TCB approval. Probe boundary effect error compensation is required for measurements with the probe tip closer than half a probe tip diameter to the phantom surface. Both the probe tip diameter and sensor offset distance must satisfy measurement protocols; to ensure probe boundary effect errors are minimized and the higher fields closest to the phantom surface can be correctly measured and extrapolated to the phantom surface for computing 1-g SAR. Tolerances of the post-processing algorithms must be verified by the test laboratory for the scan resolutions used in the SAR measurements, according to the reference distribution functions specified in IEC/IEEE 62209-1528. The results should be documented as part of the system validation records and may be requested to support test results when all the measurement parameters in the following table are not satisfied.

		≤ 3 GHz	> 3 GHz	
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface		5 ± 1 mm	$\frac{1}{2} \cdot \delta \cdot \ln(2) \pm 0.5$ mm	
Maximum probe angle from probe axis to phantom surface normal at the measurement location		$30^\circ \pm 1^\circ$	$20^\circ \pm 1^\circ$	
Maximum area scan spatial resolution: Δx_{Area} , Δy_{Area}		≤ 2 GHz: ≤ 15 mm 2 – 3 GHz: ≤ 12 mm	3 – 4 GHz: ≤ 12 mm 4 – 6 GHz: ≤ 10 mm	
		When the x or y dimension of the test device, in the measurement plane orientation, is smaller than the above, the measurement resolution must be \leq the corresponding x or y dimension of the test device with at least one measurement point on the test device.		
Maximum zoom scan spatial resolution: Δx_{Zoom} , Δy_{Zoom}		≤ 2 GHz: ≤ 8 mm 2 – 3 GHz: ≤ 5 mm*	3 – 4 GHz: ≤ 5 mm* 4 – 6 GHz: ≤ 4 mm*	
Maximum zoom scan spatial resolution, normal to phantom surface	uniform grid: $\Delta z_{Zoom}(n)$	≤ 5 mm	3 – 4 GHz: ≤ 4 mm 4 – 5 GHz: ≤ 3 mm 5 – 6 GHz: ≤ 2 mm	
	graded grid	$\Delta z_{Zoom}(1)$: between 1 st two points closest to phantom surface	≤ 4 mm	3 – 4 GHz: ≤ 3 mm 4 – 5 GHz: ≤ 2.5 mm 5 – 6 GHz: ≤ 2 mm
		$\Delta z_{Zoom}(n>1)$: between subsequent points	$\leq 1.5 \cdot \Delta z_{Zoom}(n-1)$	
Minimum zoom scan volume	x, y, z	≥ 30 mm	3 – 4 GHz: ≥ 28 mm 4 – 5 GHz: ≥ 25 mm 5 – 6 GHz: ≥ 22 mm	
Note: δ is the penetration depth of a plane-wave at normal incidence to the tissue medium; see draft standard IEEE P1528-2011 for details. * When zoom scan is required and the <i>reported</i> SAR from the area scan based 1-g SAR estimation procedures of KDB 447498 is ≤ 1.4 W/kg, ≤ 8 mm, ≤ 7 mm and ≤ 5 mm zoom scan resolution may be applied, respectively, for 2 GHz to 3 GHz, 3 GHz to 4 GHz and 4 GHz to 6 GHz.				

9.3 WCDMA Measurement Procedures for SAR

The following procedures are applicable to WCDMA handsets operating under 3GPP Release99, Release 5 and Release 6. The default test configuration is to measure SAR with an established radio link between the DUT and a communication test set using a 12.2kbps RMC (reference measurement channel) configured in Test Loop Mode 1. SAR is selectively confirmed for other physical channel configurations (DPCCH & DPDCH_n), HSDPA and HSPA (HSUPA/HSDPA) modes according to output power, exposure conditions and device operating capabilities. Both uplink and downlink should be configured with the same RMC or AMR, when required. SAR for Release 5 HSDPA and Release 6 HSPA are measured using the applicable FRC (fixed reference channel) and E-DCH reference channel configurations. Maximum output power is verified according to applicable versions of 3GPP TS 34.121 and SAR must be measured according to these maximum output conditions. When Maximum Power Reduction (MPR) is not implemented according to Cubic Metric (CM) requirements for Release 6 HSPA, the following procedures do not apply.

For Release 5 HSDPA Data Devices:

Sub-test	β_c	β_d	β_d (SF)	β_c / β_d	β_{hs}	CM/dB
1	2/15	15/15	64	2/15	4/15	0.0
2	12/15	15/15	64	12/15	24/25	1.0
3	15/15	8/15	64	15/8	30/15	1.5
4	15/15	4/15	64	15/4	30/15	1.5

For Release 6 HSPA Data Devices

Sub-test	β_c	β_d	β_d (SF)	β_c / β_d	β_{hs}	β_{ec}	β_{ed}	β_{ed} (SF)	β_{ed} (codes)	CM (dB)	MPR (dB)	AG Index	E-TFCI
1	11/15	15/15	64	11/15	22/15	209/225	1039/225	4	1	1.5	1.5	20	75
2	6/15	15/15	64	6/15	12/15	12/15	12/15	4	1	1.5	1.5	12	67
3	15/15	9/15	64	15/9	30/15	30/15	$\beta_{ed1}:47/15$ $\beta_{ed2}:47/15$	4	2	1.5	1.5	15	92
4	2/15	15/15	64	2/15	4/15	4/15	56/75	4	1	1.5	1.5	17	71
5	15/15	15/15	64	15/15	24/15	30/15	134/15	4	1	1.5	1.5	21	81

Rel.8 DC-HSDPA (Cat 24)

SAR test exclusion for Rel.8 DC-HSDPA must satisfy the SAR test exclusion requirements of Rel.5 HSDPA. SAR test exclusion for DC-HSDPA devices is determined by power measurements according to the H-Set 12, Fixed Reference Channel (FRC) configuration in Table C.8.1.12 of 3GPP TS 34.121-1. A primary and a secondary serving HS-DSCH Cell are required to perform the power measurement and for the results to qualify for SAR test exclusion.

9.4 SAR Measurement for LTE

SAR tests for LTE are performed with a base station simulator, Rohde & Schwarz CMW500. Closed loop power control was used so the UE transmits with maximum output power during SAR testing. All powers were measured with the CMW 500.

It is performed for conducted power and SAR based on the KDB941225 D05.

SAR is evaluated separately according to the following procedures for the different test positions in each exposure condition – head, body, body-worn accessories and other use conditions. The procedures in the following subsections are applied separately to test each LTE frequency band.

1) QPSK with 1 RB allocation

Start with the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power among RB offsets at the upper edge, middle and lower edge of each required test channel. When the reported SAR is ≤ 0.8 W/kg, testing of the remaining RB offset configurations and required test channels is not required for 1 RB allocation; otherwise, SAR is required for the remaining required test channels and only for the RB offset configuration with the highest output power for that channel. When the reported SAR of a required test channel is > 1.45 W/kg, SAR is required for all three RB offset configurations for that required test channel.

2) QPSK with 50% RB allocation

The procedures required for 1 RB allocation in 1) are applied to measure the SAR for QPSK with 50% RB allocation.

3) QPSK with 100% RB allocation

For QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation in 1) and 2) are ≤ 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested.

TDD test:

TDD testing is performed using guidance from FCC KDB 941225 D05 and the SAR test guidance provided in April 2013 TCB works hop notes. TDD is tested at the highest duty factor using UL-DL configuration 0 with special subframe configuration 6 and applying the FDD LTE procedures in KDB 941225 D05. SAR testing is performed using the extended cyclic prefix listed in 3GPP TS 36.211.

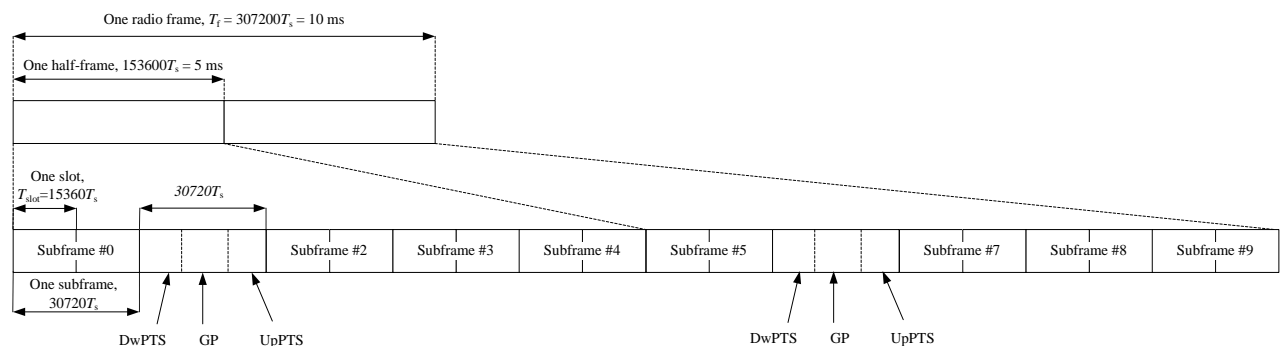


Figure 9.2: Frame structure type 2 (for 5 ms switch-point periodicity)

Table 9.1: Configuration of special subframe (lengths of DwPTS/GP/UpPTS)

Special subframe configuration	Normal cyclic prefix in downlink			Extended cyclic prefix in downlink		
	DwPTS	UpPTS		DwPTS	UpPTS	
		Normal cyclic prefix in uplink	Extended cyclic prefix in uplink		Normal cyclic prefix in uplink	Extended cyclic prefix in uplink
0	$6592 \cdot T_s$	$2192 \cdot T_s$	$2560 \cdot T_s$	$7680 \cdot T_s$	$2192 \cdot T_s$	$2560 \cdot T_s$
1	$19760 \cdot T_s$			$20480 \cdot T_s$		
2	$21952 \cdot T_s$			$23040 \cdot T_s$		
3	$24144 \cdot T_s$			$25600 \cdot T_s$		
4	$26336 \cdot T_s$	$4384 \cdot T_s$	$5120 \cdot T_s$	$7680 \cdot T_s$	$4384 \cdot T_s$	$5120 \cdot T_s$
5	$6592 \cdot T_s$			$20480 \cdot T_s$		
6	$19760 \cdot T_s$			$23040 \cdot T_s$		
7	$21952 \cdot T_s$			$12800 \cdot T_s$		
8	$24144 \cdot T_s$			-	-	-
9	$13168 \cdot T_s$			-	-	-

Table 9.2: Uplink-downlink configurations

Uplink-downlink configuration	Downlink-to-Uplink Switch-point periodicity	Subframe number									
		0	1	2	3	4	5	6	7	8	9
0	5 ms	D	S	U	U	U	D	S	U	U	U
1	5 ms	D	S	U	U	D	D	S	U	U	D
2	5 ms	D	S	U	D	D	D	S	U	D	D
3	10 ms	D	S	U	U	U	D	D	D	D	D
4	10 ms	D	S	U	U	D	D	D	D	D	D
5	10 ms	D	S	U	D	D	D	D	D	D	D
6	5 ms	D	S	U	U	U	D	S	U	U	D

Duty factor is calculated by:

$$\begin{aligned}
 \text{Duty factor} &= \text{uplink frame} \cdot 6 + \text{UpPTS} \cdot 2 / \text{one frame length} \\
 &= (30720 \cdot T_s + 6 + 5120 \cdot T_s \cdot 2) / 307200 \cdot T_s \\
 &= 0.633
 \end{aligned}$$

9.5 Bluetooth & Wi-Fi Measurement Procedures for SAR

Normal network operating configurations are not suitable for measuring the SAR of 802.11 transmitters in general. Unpredictable fluctuations in network traffic and antenna diversity conditions can introduce undesirable variations in SAR results. The SAR for these devices should be measured using chipset based test mode software to ensure that the results are consistent and reliable.

Chipset based test mode software is hardware dependent and generally varies among manufacturers. The device operating parameters established in a test mode for SAR measurements must be identical to those programmed in production units, including output power levels, amplifier gain settings and other RF performance tuning parameters. The test frequencies should correspond to actual channel frequencies defined for domestic use. SAR for devices with switched diversity should be measured with only one antenna transmitting at a time during each SAR measurement, according to a fixed modulation and data rate. The same data pattern should be used for all measurements.

9.6 Power Drift

To control the output power stability during the SAR test, DASY5 system calculates the power drift by measuring the E-field at the same location at the beginning and at the end of the measurement for each test position. These drift values can be found in section 14 labeled as: (Power Drift [dB]). This ensures that the power drift during one measurement is within 5%.

10 Area Scan Based 1-g SAR

10.1 Requirement of KDB

According to the KDB447498 D01, when the implementation is based the specific polynomial fit algorithm as presented at the 29th Bioelectromagnetics Society meeting (2007) and the estimated 1-gSAR is ≤ 1.2 W/kg, a zoom scan measurement is not required provided it is also not needed for any other purpose; for example, if the peak SAR location required for simultaneous transmission SAR test exclusion can be determined accurately by the SAR system or manually to discriminate between distinctive peaks and scattered noisy SAR distributions from area scans.

There must not be any warning or alert messages due to various measurement concerns identified by the SAR system; for example, noise in measurements, peaks too close to scan boundary, peaks are too sharp, spatial resolution and uncertainty issues etc. The SAR system verification must also demonstrate that the area scan estimated 1-g SAR is within 3% of the zoom scan 1-g SAR (See Annex B). When all the SAR results for each exposure condition in a frequency band and wireless mode are based on estimated 1-g SAR, the 1-g SAR for the highest SAR configuration must be determined by a zoom scan.

10.2 Fast SAR Algorithms

The approach is based on the area scan measurement applying a frequency dependent attenuation parameter. This attenuation parameter was empirically determined by analyzing a large number of phones. The MOTOROLA FAST SAR was developed and validated by the MOTOROLA Research Group in Ft. Lauderdale.

In the initial study, an approximation algorithm based on Linear fit was developed. The accuracy of the algorithm has been demonstrated across a broad frequency range (136-2450 MHz) and for both 1- and 10-g averaged SAR using a sample of 264 SAR measurements from 55 wireless handsets. For the sample size studied, the root-mean-squared errors of the algorithm are 1.2% and 5.8% for 1- and 10-g averaged SAR, respectively. The paper describing the algorithm in detail is expected to be published in August 2004 within the Special Issue of Transactions on MTT.

In the second step, the same research group optimized the fitting algorithm to an Polynomial fit whereby the frequency validity was extended to cover the range 30-6000MHz. Details of this study can be found in the BEMS 2007 Proceedings.

Both algorithms are implemented in DASY software.

11 Conducted Output Power

Table 11.1: Summary of Receiver detection mechanism-Main antenna

Antenna	Normal Power	Power Reduced (SAR Sensor) WIFI OFF	Power Reduced (SAR Sensor) WIFI ON
Main Antenna	Power Level A1	Power Level B1	Power Level C1

11.1 GSM Measurement result

GSM850_Power Level A1

GSM 850	Measured Power (dBm)			Tune up	calculation (dB)	Measured Power (dBm)		
GPRS (GMSK)	251	190	128			251	190	128
1 Txslot	32.18	32.25	32.13	33.50	-9.03	23.15	23.22	23.10
2 Txslots	31.60	31.67	31.56	32.00	-6.02	25.58	25.65	25.54
3Txslots	29.99	29.90	29.91	30.00	-4.26	25.73	25.64	25.65
4 Txslots	28.81	28.97	28.88	29.00	-3.01	25.80	25.96	25.87
GSM 850	Measured Power (dBm)				calculation (dB)	Measured Power (dBm)		
EGPRS (GMSK)	251	190	128			251	190	128
1 Txslot	32.17	32.30	32.16	33.50	-9.03	23.14	23.27	23.13
2 Txslots	31.57	31.72	31.59	32.00	-6.02	25.55	25.70	25.57
3Txslots	29.93	29.91	29.90	30.00	-4.26	25.67	25.65	25.64
4 Txslots	28.81	28.95	28.91	29.00	-3.01	25.80	25.94	25.90
GSM 850	Measured Power (dBm)				calculation (dB)	Measured Power (dBm)		
EGPRS (8PSK)	251	190	128			251	190	128
1 Txslot	26.19	26.26	26.50	27.50	-9.03	17.16	17.23	17.47
2 Txslots	25.64	25.75	25.90	26.50	-6.02	19.62	19.73	19.88
3Txslots	24.33	24.41	24.39	24.50	-4.26	20.07	20.15	20.13
4 Txslots	22.35	22.41	22.53	23.00	-3.01	19.34	19.40	19.52

NOTES:

1) Division Factors

To average the power, the division factor is as follows:

1TX-slot = 1 transmit time slot out of 8 time slots=> conducted power divided by (8/1) => -9.03dB

2TX-slots = 2 transmit time slots out of 8 time slots=> conducted power divided by (8/2) => -6.02dB

3TX-slots = 3 transmit time slots out of 8 time slots=> conducted power divided by (8/3) => -4.26dB

4TX-slots = 4 transmit time slots out of 8 time slots=> conducted power divided by (8/4) => -3.01dB

According to the conducted power as above, the body measurements are performed with 4Txslots for GSM850.

GSM1900_Power Level A1

PCS1900	Measured Power (dBm)			Tune up	calculation (dB)	Measured Power (dBm)		
GPRS (GMSK)	810	661	512			810	661	512
1 Txslot	29.39	29.35	29.38	30.50	-9.03	20.36	20.32	20.35
2 Txslots	28.84	28.81	28.82	29.00	-6.02	22.82	22.79	22.80
3Txslots	27.27	27.21	27.25	27.00	-4.26	23.01	22.95	22.99
4 Txslots	25.99	25.95	25.98	26.00	-3.01	22.98	22.94	22.97
PCS1900	Measured Power (dBm)				calculation (dB)	Measured Power (dBm)		
EGPRS (GMSK)	810	661	512			810	661	512
1 Txslot	29.42	29.36	29.39	30.50	-9.03	20.39	20.33	20.36
2 Txslots	28.86	28.82	28.83	29.00	-6.02	22.84	22.80	22.81
3Txslots	26.92	26.86	26.90	27.00	-4.26	22.66	22.60	22.64
4 Txslots	25.86	25.80	25.83	26.00	-3.01	22.85	22.79	22.82
PCS1900	Measured Power (dBm)				calculation (dB)	Measured Power (dBm)		
EGPRS (8PSK)	810	661	512			810	661	512
1 Txslot	25.41	25.49	25.46	26.00	-9.03	16.38	16.46	16.43
2 Txslots	24.49	24.42	24.45	24.50	-6.02	18.47	18.40	18.43
3Txslots	22.04	22.21	22.23	22.50	-4.26	17.78	17.95	17.97
4 Txslots	21.18	21.31	21.29	21.50	-3.01	18.17	18.30	18.28

NOTES:

1) Division Factors

To average the power, the division factor is as follows:

1TX-slot = 1 transmit time slot out of 8 time slots=> conducted power divided by (8/1) => -9.03dB

2TX-slots = 2 transmit time slots out of 8 time slots=> conducted power divided by (8/2) => -6.02dB

3TX-slots = 3 transmit time slots out of 8 time slots=> conducted power divided by (8/3) => -4.26dB

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4TX-slots = 4 transmit time slots out of 8 time slots=> conducted power divided by (8/4) => -3.01dB

According to the conducted power as above, the body measurements are performed with 4Txslots for GSM1900.

GSM850_Power Level B1

GSM 850		Measured Power (dBm)			Tune up	calculation	Measured Power (dBm)		
GPRS (GMSK)	251	190	128			251	190	128	
1 Txslot	28.30	28.17	28.24	29.50	-9.03	19.27	19.14	19.21	
2 Txslots	27.50	27.57	27.38	28.00	-6.02	21.48	21.55	21.36	
3Txslots	25.85	25.91	26.04	26.00	-4.26	21.59	21.65	21.78	
4 Txslots	24.97	24.92	24.92	25.00	-3.01	21.96	21.91	21.91	
GSM 850		Measured Power (dBm)				calculation	Measured Power (dBm)		
EGPRS (GMSK)	251	190	128			251	190	128	
1 Txslot	28.19	28.25	28.23	29.50	-9.03	19.16	19.22	19.20	
2 Txslots	27.74	27.75	27.54	28.00	-6.02	21.72	21.73	21.52	
3Txslots	26.08	25.99	25.80	26.00	-4.26	21.82	21.73	21.54	
4 Txslots	24.91	24.79	24.86	25.00	-3.01	21.90	21.78	21.85	
GSM 850		Measured Power (dBm)				calculation	Measured Power (dBm)		
EGPRS (8PSK)	251	190	128			251	190	128	
1 Txslot	22.26	22.40	22.51	23.50	-9.03	13.23	13.37	13.48	
2 Txslots	21.59	21.85	21.80	22.50	-6.02	15.57	15.83	15.78	
3Txslots	20.38	20.54	20.40	20.50	-4.26	16.12	16.28	16.14	
4 Txslots	18.33	18.26	18.47	19.00	-3.01	15.32	15.25	15.46	

NOTES:

1) Division Factors

To average the power, the division factor is as follows:

1TX-slot = 1 transmit time slot out of 8 time slots=> conducted power divided by (8/1) => -9.03dB

2TX-slots = 2 transmit time slots out of 8 time slots=> conducted power divided by (8/2) => -6.02dB

3TX-slots = 3 transmit time slots out of 8 time slots=> conducted power divided by (8/3) => -4.26dB

4TX-slots = 4 transmit time slots out of 8 time slots=> conducted power divided by (8/4) => -3.01dB

According to the conducted power as above, the body measurements are performed with 4Txslots for GSM850.

GSM1900_Power Level B1

PCS1900		Measured Power (dBm)			Tune up	calculation	Measured Power (dBm)		
GPRS (GMSK)	810	661	512			810	661	512	
1 Txslot	23.40	23.42	23.35	24.50	-9.03	14.37	14.39	14.32	
2 Txslots	22.81	22.94	22.87	23.00	-6.02	16.79	16.92	16.85	
3Txslots	20.17	20.23	20.16	21.00	-4.26	15.91	15.97	15.90	
4 Txslots	19.90	19.78	19.91	20.00	-3.01	16.89	16.77	16.90	
PCS1900		Measured Power (dBm)				calculation	Measured Power (dBm)		
EGPRS (GMSK)	810	661	512			810	661	512	
1 Txslot	23.46	23.17	23.21	24.50	-9.03	14.43	14.14	14.18	
2 Txslots	22.85	22.67	22.88	23.00	-6.02	16.83	16.65	16.86	
3Txslots	20.83	20.71	20.92	21.00	-4.26	16.57	16.45	16.66	
4 Txslots	20.01	19.94	19.98	20.00	-3.01	17.00	16.93	16.97	
PCS1900		Measured Power (dBm)				calculation	Measured Power (dBm)		
EGPRS (8PSK)	810	661	512			810	661	512	
1 Txslot	19.57	19.63	19.51	20.00	-9.03	10.54	10.60	10.48	
2 Txslots	18.09	18.11	18.06	18.50	-6.02	12.07	12.09	12.04	
3Txslots	16.09	15.58	16.29	16.50	-4.26	11.83	11.32	12.03	
4 Txslots	14.98	15.32	15.12	15.50	-3.01	11.97	12.31	12.11	

NOTES:

1) Division Factors

To average the power, the division factor is as follows:

1TX-slot = 1 transmit time slot out of 8 time slots=> conducted power divided by (8/1) => -9.03dB

2TX-slots = 2 transmit time slots out of 8 time slots=> conducted power divided by (8/2) => -6.02dB

3TX-slots = 3 transmit time slots out of 8 time slots=> conducted power divided by (8/3) => -4.26dB

4TX-slots = 4 transmit time slots out of 8 time slots=> conducted power divided by (8/4) => -3.01dB

According to the conducted power as above, the body measurements are performed with 4Txslots for GSM1900.

WCDMA_ Power Level A1

WCDMA850	FDDV result (dBm)			Tune up
	4233/4458 (846.6MHz)	4182/4407 (836.4MHz)	4132/4357 (826.4MHz)	
	23.04	22.93	23.73	24.00
HSUPA	20.82	21.03	20.87	21.50
	21.04	20.37	20.68	21.50
	21.72	21.90	21.76	22.00
	20.20	20.46	20.27	20.50
	21.95	22.59	22.06	23.00
HSPA+	22.08	21.26	21.67	22.50
DC-HSDPA	22.54	22.88	23.08	23.50
	22.43	22.52	22.47	23.50
	22.38	22.68	22.70	23.00
	22.80	22.87	22.60	23.00
WCDMA1900	FDDII result (dBm)			Tune up
	9538/9938 (1907.6MHz)	9400/9800 (1880MHz)	9262/9662 (1852.4MHz)	
	22.92	23.06	22.96	24.00
HSUPA	20.7	20.90	20.70	21.50
	20.9	20.40	20.50	21.50
	21.6	21.70	21.60	22.00
	20.4	20.30	20.10	20.50
	21.8	22.40	21.90	23.00
HSPA+	22.4	21.26	21.30	22.50
DC-HSDPA	22.4	22.70	22.90	23.50
	22.3	22.40	22.30	23.50
	22.2	22.51	22.50	23.00
	22.89	22.70	22.40	23.00
WCDMA1700	FDDIV result (dBm)			Tune up
	1513/1738 (1752.6MHz)	1412/1675 (1732.4MHz)	1312/1537 (1712.4MHz)	
	23.06	22.98	23.01	24.00
HSUPA	20.9	21.10	20.90	21.50
	21.1	20.60	20.60	21.50
	21.7	21.80	21.80	22.00
	20.5	20.40	20.30	20.50
	22	22.50	22.10	23.00
HSPA+	21.32	21.16	21.15	22.00
DC-HSDPA	22.6	22.90	23.00	23.50
	22.5	22.60	22.50	23.50
	22.3	22.70	22.70	23.00
	22.98	22.80	22.60	23.00

WCDMA_ Power Level B1

WCDMA850	FDDV result (dBm)			Tune up
	4233/4458 (846.6MHz)	4182/4407 (836.4MHz)	4132/4357 (826.4MHz)	
	21.54	21.43	21.60	22.00
HSUPA	18.69	18.56	18.61	19.50
	18.95	18.70	18.31	19.50
	18.14	18.45	18.51	20.00
	19.07	18.62	18.43	18.50
	18.76	19.60	18.59	21.00
HSPA+	12.2	11.20	11.70	13.50
DC-HSDPA	20.3	19.90	20.00	21.50
	20	19.70	19.90	21.50
	19.8	19.40	19.60	21.00
	19.6	19.50	19.50	21.00
WCDMA1900	FDDII result (dBm)			Tune up
	9538/9938 (1907.6MHz)	9400/9800 (1880MHz)	9262/9662 (1852.4MHz)	
	13.90	14.10	14.00	15.00
HSUPA	11.41	11.21	11.45	12.50
	11.26	11.27	11.55	12.50
	11.37	11.23	11.25	13.00
	11.28	11.30	11.49	11.50
	12.6	12.30	12.30	14.00
HSPA+	12.2	12.20	12.20	13.50
DC-HSDPA	12.6	12.74	12.60	14.50
	12.72	12.91	12.63	14.50
	12.7	12.40	12.50	14.00
	12.3	12.50	12.40	14.00
WCDMA1700	FDDIV result (dBm)			Tune up
	1513/1738 (1752.6MHz)	1412/1675 (1732.4MHz)	1312/1537 (1712.4MHz)	
	14.10	14.13	14.00	15.00
HSUPA	11.13	11.12	11.15	12.50
	11.39	11.16	11.03	12.50
	12.1	11.90	11.80	13.00
	11.37	10.99	11.16	11.50
	12.9	12.80	12.60	14.00
HSPA+	11.38	11.02	11.11	13.00
DC-HSDPA	13.1	12.80	12.90	14.50
	12.9	13.00	12.80	14.50
	12.6	12.50	12.40	14.00
	12.9	12.60	12.50	14.00

11.2 LTE Measurement result

Maximum Target Power for Production Unit

Band	ANT	Tune up (dBm)		
		Power Level A1(ENDC/CA)	Power Level B1	Power Level C1(ENDC/CA)
LTE Band2	2	24	14.0	11.0
LTE Band2	0	24	/	11.0
LTE Band5	0	24	22.0	19.0
LTE Band7	3	24	15.0	12.0
LTE Band12	0	24	20.0	17.0
LTE Band13	0	24	20.0	17.0
LTE Band48	5	24	13.0	10.0
LTE Band66	2	24	14.0	11.0

Maximum Power Reduction (MPR) for LTE

Modulation	1.4	MPR	3	MPR	5	MPR	10	MPR	15	MPR	20	MPR (dB)
	MHz		MHz		MHz		MHz		MHz		MHz	
QPSK	≤ 5	0	≤ 4	0	≤ 8	0	≤ 12	0	≤ 16	0	≤ 18	0
QPSK	> 5	1	> 4	1	> 8	1	> 12	1	> 16	1	> 18	1
16 QAM	≤ 5	1	≤ 4	1	≤ 8	1	≤ 12	1	≤ 16	1	≤ 18	1
16 QAM	> 5	2	> 4	2	> 8	2	> 12	2	> 16	2	> 18	2
64 QAM	≤ 5	2	≤ 4	2	≤ 8	2	≤ 12	2	≤ 16	2	≤ 18	2
64 QAM	> 5	3	> 4	3	> 8	3	> 12	3	> 16	3	> 18	3
256 QAM	≤ 5	5	≤ 4	5	≤ 8	5	≤ 12	5	≤ 16	5	≤ 18	5
256 QAM	> 5	5	> 4	5	> 8	5	> 12	5	> 16	5	> 18	5

LTE B2-ANT2 (Power Level A1)

BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM	256QAM
1.4MHz	1RB-High (5)	1909.3 (19193)	22.73	22.03	20.91	18.03
		1880 (18900)	22.70	21.91	20.87	17.80
		1850.7 (18607)	22.70	22.01	20.82	17.88
	1RB-Middle (3)	1909.3 (19193)	22.72	21.92	20.91	17.99
		1880 (18900)	22.73	21.99	21.02	17.82
		1850.7 (18607)	22.79	22.11	20.86	17.97
	1RB-Low (0)	1909.3 (19193)	22.71	22.01	20.93	17.98
		1880 (18900)	22.75	22.00	20.91	17.95
		1850.7 (18607)	22.84	22.11	20.88	17.84
	3RB-High (3)	1909.3 (19193)	22.79	21.78	20.80	18.01
		1880 (18900)	22.73	21.75	20.77	17.80
		1850.7 (18607)	22.73	21.65	20.85	17.82
	3RB-Middle (1)	1909.3 (19193)	22.76	21.77	20.77	17.96
		1880 (18900)	22.74	21.74	20.81	17.90
		1850.7 (18607)	22.77	21.76	20.82	17.84
	3RB-Low (0)	1909.3 (19193)	22.79	21.66	20.85	17.81
		1880 (18900)	22.73	21.66	20.79	18.03
		1850.7 (18607)	22.77	21.66	20.77	17.83
	6RB (0)	1909.3 (19193)	21.76	20.83	19.72	17.97
		1880 (18900)	21.73	20.83	19.63	17.90
		1850.7 (18607)	21.66	20.80	19.70	18.01
3MHz	1RB-High (14)	1908.5 (19185)	22.72	22.10	20.98	18.00
		1880 (18900)	22.70	22.03	20.98	17.98
		1851.5 (18615)	22.67	22.05	20.86	17.96
	1RB-Middle (7)	1908.5 (19185)	22.66	21.97	20.87	17.83
		1880 (18900)	22.69	21.96	20.98	17.89
		1851.5 (18615)	22.62	22.05	21.02	17.90
	1RB-Low (0)	1908.5 (19185)	22.68	21.93	20.92	18.02
		1880 (18900)	22.70	21.88	21.01	17.92
		1851.5 (18615)	22.73	22.06	20.98	17.98
	8RB-High (7)	1908.5 (19185)	21.78	20.84	19.81	17.84
		1880 (18900)	21.75	20.77	19.81	17.84
		1851.5 (18615)	21.73	20.80	19.74	17.99
	8RB-Middle (4)	1908.5 (19185)	21.73	20.85	19.79	17.96
		1880 (18900)	21.69	20.74	19.79	17.84
		1851.5 (18615)	21.72	20.76	19.70	17.89
	8RB-Low (0)	1908.5 (19185)	21.74	20.80	19.77	17.98
		1880 (18900)	21.73	20.79	19.82	18.02
		1851.5 (18615)	21.72	20.82	19.74	17.81

	15RB (0)	1908.5 (19185)	21.77	20.79	19.75	17.84	
		1880 (18900)	21.75	20.78	19.74	17.85	
		1851.5 (18615)	21.69	20.76	19.70	17.83	
5MHz	1RB-High (24)	1907.5 (19175)	22.85	22.09	20.97	17.94	
		1880 (18900)	22.78	22.14	21.02	17.90	
		1852.5 (18625)	22.70	22.03	20.91	17.84	
	1RB-Middle (12)	1907.5 (19175)	22.79	22.14	21.00	17.98	
		1880 (18900)	22.83	22.00	20.90	17.87	
		1852.5 (18625)	22.93	22.13	20.90	17.99	
	1RB-Low (0)	1907.5 (19175)	22.76	22.13	21.00	17.87	
		1880 (18900)	22.83	22.08	20.92	17.93	
		1852.5 (18625)	22.82	22.19	20.96	17.80	
	12RB-High (13)	1907.5 (19175)	21.80	20.84	19.86	17.90	
		1880 (18900)	21.78	20.84	19.80	17.80	
		1852.5 (18625)	21.74	20.75	19.74	18.02	
	12RB-Middle (6)	1907.5 (19175)	21.79	20.82	19.80	17.89	
		1880 (18900)	21.79	20.74	19.72	17.95	
		1852.5 (18625)	21.71	20.73	19.73	17.85	
	12RB-Low (0)	1907.5 (19175)	21.78	20.79	19.83	17.80	
		1880 (18900)	21.80	20.84	19.80	17.79	
		1852.5 (18625)	21.79	20.78	19.80	17.95	
	25RB (0)	1907.5 (19175)	21.84	20.83	19.80	17.79	
		1880 (18900)	21.81	20.80	19.76	17.79	
		1852.5 (18625)	21.78	20.84	19.75	18.00	
	10MHz	1RB-High (49)	1905 (19150)	22.93	22.13	21.04	17.97
			1880 (18900)	22.83	22.09	21.04	17.83
			1855 (18650)	22.85	22.15	20.92	17.80
1RB-Middle (24)		1905 (19150)	22.73	22.02	20.91	17.99	
		1880 (18900)	22.76	22.00	20.88	17.79	
		1855 (18650)	22.77	22.12	20.94	17.96	
1RB-Low (0)		1905 (19150)	22.80	22.16	20.98	17.91	
		1880 (18900)	22.96	22.07	21.06	17.79	
		1855 (18650)	22.85	22.24	21.11	17.87	
25RB-High (25)		1905 (19150)	21.84	20.84	19.81	17.89	
		1880 (18900)	21.79	20.77	19.77	18.04	
		1855 (18650)	21.78	20.78	19.75	17.93	
25RB-Middle (12)		1905 (19150)	21.78	20.74	19.73	17.90	
		1880 (18900)	21.79	20.77	19.77	17.79	
		1855 (18650)	21.77	20.72	19.73	18.03	
25RB-Low (0)		1905 (19150)	21.83	20.81	19.80	17.96	
		1880 (18900)	21.83	20.82	19.79	17.94	
		1855 (18650)	21.81	20.82	19.77	18.04	

	50RB (0)	1905 (19150)	21.80	20.79	19.80	17.88	
		1880 (18900)	21.81	20.82	19.78	17.91	
		1855 (18650)	21.77	20.77	19.74	17.96	
15MHz	1RB-High (74)	1902.5 (19125)	22.84	22.16	21.03	17.86	
		1880 (18900)	22.85	22.14	21.00	17.79	
		1857.5 (18675)	22.77	22.08	20.97	18.00	
	1RB-Middle (37)	1902.5 (19125)	22.75	22.09	20.97	17.95	
		1880 (18900)	22.95	22.08	21.01	18.01	
		1857.5 (18675)	22.76	22.08	21.01	18.03	
	1RB-Low (0)	1902.5 (19125)	22.89	22.11	21.02	18.05	
		1880 (18900)	22.92	22.16	21.06	17.79	
		1857.5 (18675)	22.81	22.11	21.06	17.90	
	36RB-High (38)	1902.5 (19125)	21.78	20.78	19.80	17.96	
		1880 (18900)	21.80	20.78	19.82	17.92	
		1857.5 (18675)	21.80	20.77	19.80	17.87	
	36RB-Middle (19)	1902.5 (19125)	21.77	20.74	19.78	17.84	
		1880 (18900)	21.79	20.76	19.81	18.03	
		1857.5 (18675)	21.76	20.74	19.75	18.01	
	36RB-Low (0)	1902.5 (19125)	21.85	20.80	19.82	17.82	
		1880 (18900)	21.83	20.82	19.85	18.01	
		1857.5 (18675)	21.83	20.82	19.82	18.01	
	75RB (0)	1902.5 (19125)	21.81	20.81	19.79	18.02	
		1880 (18900)	21.81	20.85	19.78	17.92	
		1857.5 (18675)	21.79	20.80	19.77	17.82	
	20MHz	1RB-High (99)	1900 (19100)	22.85	22.24	21.07	17.89
			1880 (18900)	22.91	22.20	21.06	17.84
			1860 (18700)	22.82	22.13	21.04	17.98
		1RB-Middle (50)	1900 (19100)	22.75	22.11	20.92	17.86
			1880 (18900)	22.92	22.04	20.94	17.87
			1860 (18700)	22.74	22.05	20.96	17.79
1RB-Low (0)		1900 (19100)	22.85	22.25	21.11	17.87	
		1880 (18900)	22.85	22.14	21.04	18.00	
		1860 (18700)	22.82	22.11	21.06	18.01	
50RB-High (50)		1900 (19100)	21.76	20.78	19.76	17.94	
		1880 (18900)	21.84	20.83	19.85	18.00	
		1860 (18700)	21.83	20.82	19.81	17.86	
50RB-Middle (25)		1900 (19100)	21.79	20.86	19.84	18.03	
		1880 (18900)	21.81	20.82	19.85	17.96	
		1860 (18700)	21.80	20.79	19.77	17.90	
50RB-Low (0)		1900 (19100)	21.86	20.84	19.85	17.81	
		1880 (18900)	21.85	20.87	19.86	17.87	
		1860 (18700)	21.78	20.79	19.79	17.79	

	100RB (0)	1900 (19100)	21.82	20.83	19.82	17.91
		1880 (18900)	21.85	20.86	19.87	17.83
		1860 (18700)	21.79	20.80	19.78	17.94

LTE B2-ANT2 (Power Level B1)

BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM	256QAM	
1.4MHz	1RB-High (5)	1909.3 (19193)	12.64	13.26	13.01	12.91	
		1880 (18900)	12.63	13.19	12.99	12.89	
		1850.7 (18607)	12.63	13.25	12.96	12.86	
	1RB-Middle (3)	1909.3 (19193)	12.64	13.20	13.01	12.91	
		1880 (18900)	12.64	13.24	13.08	12.98	
		1850.7 (18607)	12.68	13.31	12.98	12.88	
	1RB-Low (0)	1909.3 (19193)	12.63	13.25	13.02	12.92	
		1880 (18900)	12.66	13.25	13.01	12.91	
		1850.7 (18607)	12.71	13.31	12.99	12.89	
	3RB-High (3)	1909.3 (19193)	13.41	13.42	13.51	13.41	
		1880 (18900)	13.37	13.40	13.49	13.39	
		1850.7 (18607)	13.37	13.34	13.54	13.43	
	3RB-Middle (1)	1909.3 (19193)	13.39	13.41	13.49	13.39	
		1880 (18900)	13.38	13.39	13.51	13.41	
		1850.7 (18607)	13.40	13.41	13.52	13.42	
	3RB-Low (0)	1909.3 (19193)	13.41	13.35	13.54	13.43	
		1880 (18900)	13.37	13.35	13.50	13.40	
		1850.7 (18607)	13.40	13.35	13.49	13.39	
	6RB (0)	1909.3 (19193)	12.80	12.83	12.81	12.71	
		1880 (18900)	12.78	12.83	12.75	12.65	
		1850.7 (18607)	12.74	12.82	12.79	12.69	
	3MHz	1RB-High (14)	1908.5 (19185)	12.64	13.31	13.05	12.95
			1880 (18900)	12.63	13.26	13.05	12.95
			1851.5 (18615)	12.61	13.28	12.98	12.88
		1RB-Middle (7)	1908.5 (19185)	12.61	13.23	12.99	12.89
			1880 (18900)	12.62	13.22	13.05	12.95
			1851.5 (18615)	12.58	13.28	13.08	12.98
1RB-Low (0)		1908.5 (19185)	12.62	13.20	13.02	12.92	
		1880 (18900)	12.63	13.17	13.07	12.97	
		1851.5 (18615)	12.64	13.28	13.05	12.95	
8RB-High (7)		1908.5 (19185)	12.81	12.84	12.86	12.76	
		1880 (18900)	12.80	12.80	12.86	12.76	
		1851.5 (18615)	12.78	12.82	12.82	12.72	
8RB-Middle (4)		1908.5 (19185)	12.78	12.85	12.85	12.75	
		1880 (18900)	12.76	12.78	12.85	12.75	

		1851.5 (18615)	12.78	12.79	12.79	12.69	
	8RB-Low (0)	1908.5 (19185)	12.79	12.82	12.84	12.74	
		1880 (18900)	12.78	12.81	12.87	12.77	
		1851.5 (18615)	12.78	12.83	12.82	12.72	
	15RB (0)	1908.5 (19185)	12.81	12.81	12.83	12.73	
		1880 (18900)	12.80	12.80	12.82	12.72	
		1851.5 (18615)	12.76	12.79	12.79	12.69	
5MHz	1RB-High (24)	1907.5 (19175)	12.71	13.30	13.05	12.95	
		1880 (18900)	12.67	13.33	13.08	12.98	
		1852.5 (18625)	12.63	13.26	13.01	12.91	
	1RB-Middle (12)	1907.5 (19175)	12.68	13.33	13.07	12.97	
		1880 (18900)	12.70	13.25	13.01	12.91	
		1852.5 (18625)	12.76	13.32	13.01	12.91	
	1RB-Low (0)	1907.5 (19175)	12.66	13.32	13.07	12.97	
		1880 (18900)	12.70	13.29	13.02	12.92	
		1852.5 (18625)	12.69	13.36	13.04	12.94	
	12RB-High (13)	1907.5 (19175)	12.82	12.84	12.90	12.80	
		1880 (18900)	12.81	12.84	12.86	12.76	
		1852.5 (18625)	12.79	12.78	12.82	12.72	
	12RB-Middle (6)	1907.5 (19175)	12.82	12.83	12.86	12.76	
		1880 (18900)	12.82	12.78	12.81	12.71	
		1852.5 (18625)	12.77	12.77	12.81	12.71	
	12RB-Low (0)	1907.5 (19175)	12.81	12.81	12.88	12.78	
		1880 (18900)	12.82	12.84	12.86	12.76	
		1852.5 (18625)	12.82	12.80	12.86	12.76	
	25RB (0)	1907.5 (19175)	12.85	12.83	12.86	12.76	
		1880 (18900)	12.83	12.82	12.83	12.73	
		1852.5 (18625)	12.81	12.84	12.83	12.73	
	10MHz	1RB-High (49)	1905 (19150)	12.76	13.32	13.09	12.99
			1880 (18900)	12.70	13.30	13.09	12.99
			1855 (18650)	12.71	13.34	13.02	12.92
1RB-Middle (24)		1905 (19150)	12.64	13.26	13.01	12.91	
		1880 (18900)	12.66	13.25	12.99	12.89	
		1855 (18650)	12.67	13.32	13.03	12.93	
1RB-Low (0)		1905 (19150)	12.68	13.34	13.05	12.95	
		1880 (18900)	12.77	13.29	13.10	13.00	
		1855 (18650)	12.71	13.39	13.14	13.04	
25RB-High (25)		1905 (19150)	12.15	12.55	12.33	12.23	
		1880 (18900)	12.82	12.80	12.84	12.74	
		1855 (18650)	12.81	12.80	12.83	12.73	
25RB-Middle (12)		1905 (19150)	12.81	12.78	12.81	12.71	
		1880 (18900)	12.82	12.80	12.84	12.74	

		1855 (18650)	12.81	12.77	12.81	12.71
	25RB-Low (0)	1905 (19150)	12.84	12.82	12.86	12.76
		1880 (18900)	12.84	12.83	12.85	12.75
		1855 (18650)	12.83	12.83	12.84	12.74
	50RB (0)	1905 (19150)	12.82	12.81	12.86	12.76
		1880 (18900)	12.83	12.83	12.84	12.74
		1855 (18650)	12.81	12.80	12.82	12.72
15MHz	1RB-High (74)	1902.5 (19125)	12.71	13.34	13.09	12.99
		1880 (18900)	12.71	13.33	13.07	12.97
		1857.5 (18675)	12.67	13.29	13.05	12.95
	1RB-Middle (37)	1902.5 (19125)	12.66	13.30	13.05	12.95
		1880 (18900)	12.77	13.29	13.07	12.97
		1857.5 (18675)	12.66	13.29	13.07	12.97
	1RB-Low (0)	1902.5 (19125)	12.73	13.31	13.08	12.98
		1880 (18900)	12.75	13.34	13.10	13.00
		1857.5 (18675)	12.69	13.31	13.10	13.00
	36RB-High (38)	1902.5 (19125)	12.81	12.80	12.86	12.76
		1880 (18900)	12.82	12.80	12.87	12.77
		1857.5 (18675)	12.82	12.80	12.86	12.76
	36RB-Middle (19)	1902.5 (19125)	12.81	12.78	12.84	12.74
		1880 (18900)	12.82	12.79	12.86	12.76
		1857.5 (18675)	12.80	12.78	12.83	12.73
	36RB-Low (0)	1902.5 (19125)	12.85	12.82	12.87	12.77
		1880 (18900)	12.84	12.83	12.89	12.79
		1857.5 (18675)	12.84	12.83	12.87	12.77
	75RB (0)	1902.5 (19125)	12.83	12.82	12.85	12.75
		1880 (18900)	12.83	12.85	12.84	12.74
		1857.5 (18675)	12.82	12.82	12.84	12.74
20MHz	1RB-High (99)	1900 (19100)	12.71	13.39	13.11	13.01
		1880 (18900)	12.74	13.37	13.10	13.00
		1860 (18700)	12.69	13.32	13.09	12.98
	1RB-Middle (50)	1900 (19100)	12.66	13.31	13.02	12.92
		1880 (18900)	12.75	13.27	13.03	12.93
		1860 (18700)	12.65	13.28	13.04	12.94
	1RB-Low (0)	1900 (19100)	12.71	13.40	13.14	13.04
		1880 (18900)	12.71	13.33	13.09	12.99
		1860 (18700)	12.69	13.31	13.10	13.00
	50RB-High (50)	1900 (19100)	12.80	12.80	12.83	12.73
		1880 (18900)	12.85	12.83	12.89	12.79
		1860 (18700)	12.84	12.83	12.86	12.76
	50RB-Middle (25)	1900 (19100)	12.82	12.85	12.88	12.78
		1880 (18900)	12.83	12.83	12.89	12.79

		1860 (18700)	12.82	12.81	12.84	12.74
	50RB-Low (0)	1900 (19100)	12.86	12.84	12.89	12.79
		1880 (18900)	12.87	12.86	12.90	12.80
		1860 (18700)	12.81	12.81	12.85	12.75
	100RB (0)	1900 (19100)	12.84	12.83	12.87	12.77
		1880 (18900)	12.85	12.85	12.90	12.80
		1860 (18700)	12.82	12.82	12.84	12.74

LTE B2-ANT2 (Power Level C1)

BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM	256QAM
1.4MHz	1RB-High (5)	1909.3 (19193)	10.25	10.22	10.29	10.63
		1880 (18900)	9.95	10.04	10.25	10.50
		1850.7 (18607)	10.27	10.12	10.16	10.65
	1RB-Middle (3)	1909.3 (19193)	10.17	10.01	10.17	10.60
		1880 (18900)	10.19	10.26	10.31	10.53
		1850.7 (18607)	10.06	10.26	10.28	10.58
	1RB-Low (0)	1909.3 (19193)	10.20	10.22	10.24	10.51
		1880 (18900)	10.16	10.02	10.33	10.57
		1850.7 (18607)	9.95	9.98	10.30	10.59
	3RB-High (3)	1909.3 (19193)	10.22	10.00	10.31	10.43
		1880 (18900)	10.14	10.13	10.23	10.30
		1850.7 (18607)	10.24	10.10	10.23	10.45
	3RB-Middle (1)	1909.3 (19193)	9.96	9.98	10.20	10.40
		1880 (18900)	10.30	10.23	10.29	10.33
		1850.7 (18607)	10.00	9.95	10.21	10.38
	3RB-Low (0)	1909.3 (19193)	10.03	10.30	10.35	10.31
		1880 (18900)	10.23	10.00	10.25	10.37
		1850.7 (18607)	10.12	10.07	10.22	10.39
	6RB (0)	1909.3 (19193)	10.28	10.06	10.30	10.23
		1880 (18900)	10.07	9.97	10.35	10.10
	3MHz	1RB-High (14)	1908.5 (19185)	9.99	10.28	10.32
1880 (18900)			10.01	10.02	10.26	10.67
1851.5 (18615)			10.01	10.10	10.22	10.54
1RB-Middle (7)		1908.5 (19185)	10.10	9.97	10.22	10.61
		1880 (18900)	9.95	10.19	10.18	10.66
		1851.5 (18615)	9.95	10.12	10.21	10.59
1RB-Low (0)		1908.5 (19185)	10.09	10.24	10.15	10.57
		1880 (18900)	10.04	10.10	10.29	10.51
		1851.5 (18615)	10.29	10.08	10.30	10.51
8RB-High (7)		1908.5 (19185)	9.95	10.30	10.21	10.40
		1880 (18900)	10.17	10.07	10.20	10.47

	8RB-Middle (4)	1851.5 (18615)	10.09	10.02	10.35	10.34	
		1908.5 (19185)	10.18	9.99	10.15	10.41	
		1880 (18900)	10.11	10.26	10.18	10.46	
		1851.5 (18615)	10.27	10.20	10.30	10.39	
	8RB-Low (0)	1908.5 (19185)	10.20	10.23	10.15	10.37	
		1880 (18900)	10.22	10.11	10.33	10.31	
		1851.5 (18615)	10.04	10.26	10.25	10.31	
	15RB (0)	1908.5 (19185)	10.18	10.29	10.18	10.20	
		1880 (18900)	9.98	10.29	10.19	10.27	
		1851.5 (18615)	9.97	10.21	10.26	10.14	
	5MHz	1RB-High (24)	1907.5 (19175)	10.24	9.97	10.29	10.68
			1880 (18900)	10.03	10.11	10.16	10.50
1852.5 (18625)			10.19	10.10	10.33	10.68	
1RB-Middle (12)		1907.5 (19175)	10.06	10.21	10.29	10.54	
		1880 (18900)	10.19	9.99	10.30	10.68	
		1852.5 (18625)	10.30	10.05	10.20	10.50	
1RB-Low (0)		1907.5 (19175)	10.14	10.06	10.23	10.57	
		1880 (18900)	10.21	10.01	10.22	10.58	
		1852.5 (18625)	10.30	10.05	10.16	10.65	
12RB-High (13)		1907.5 (19175)	10.25	10.29	10.31	10.48	
		1880 (18900)	10.13	10.01	10.35	10.30	
		1852.5 (18625)	10.22	10.02	10.27	10.48	
12RB-Middle (6)		1907.5 (19175)	10.04	10.25	10.18	10.34	
		1880 (18900)	10.19	10.17	10.31	10.48	
		1852.5 (18625)	10.08	10.25	10.33	10.30	
12RB-Low (0)		1907.5 (19175)	9.99	10.22	10.28	10.37	
		1880 (18900)	10.07	10.30	10.26	10.38	
		1852.5 (18625)	9.99	10.17	10.17	10.45	
25RB (0)		1907.5 (19175)	10.15	10.06	10.29	10.28	
		1880 (18900)	10.05	9.99	10.15	10.10	
		1852.5 (18625)	10.08	10.28	10.16	10.28	
10MHz		1RB-High (49)	1905 (19150)	10.01	9.96	10.24	10.57
			1880 (18900)	9.97	10.25	10.21	10.56
			1855 (18650)	10.08	10.00	10.22	10.57
	1RB-Middle (24)	1905 (19150)	9.96	10.02	10.20	10.65	
		1880 (18900)	10.30	9.99	10.27	10.63	
		1855 (18650)	10.07	10.28	10.24	10.54	
	1RB-Low (0)	1905 (19150)	9.98	10.17	10.30	10.59	
		1880 (18900)	10.09	10.27	10.27	10.57	
		1855 (18650)	10.28	10.08	10.31	10.63	
	25RB-High (25)	1905 (19150)	10.14	10.05	10.23	10.37	
		1880 (18900)	10.22	10.03	10.27	10.36	

		1855 (18650)	10.29	10.25	10.35	10.37
	25RB-Middle (12)	1905 (19150)	10.12	10.25	10.24	10.45
		1880 (18900)	10.16	10.14	10.21	10.43
		1855 (18650)	10.12	10.00	10.17	10.34
	25RB-Low (0)	1905 (19150)	10.14	10.19	10.27	10.39
		1880 (18900)	10.06	10.30	10.34	10.37
		1855 (18650)	10.25	10.29	10.33	10.43
	50RB (0)	1905 (19150)	10.01	10.05	10.33	10.17
		1880 (18900)	10.18	9.97	10.20	10.16
		1855 (18650)	10.26	10.18	10.29	10.17
15MHz	1RB-High (74)	1902.5 (19125)	10.25	9.99	10.27	10.53
		1880 (18900)	10.21	9.95	10.23	10.50
		1857.5 (18675)	10.30	10.13	10.34	10.55
	1RB-Middle (37)	1902.5 (19125)	10.20	10.27	10.23	10.53
		1880 (18900)	10.16	10.14	10.19	10.60
		1857.5 (18675)	10.28	10.19	10.31	10.60
	1RB-Low (0)	1902.5 (19125)	10.08	10.24	10.17	10.57
		1880 (18900)	10.17	10.28	10.25	10.66
		1857.5 (18675)	10.08	10.17	10.28	10.57
	36RB-High (38)	1902.5 (19125)	10.29	10.27	10.32	10.33
		1880 (18900)	10.10	10.05	10.33	10.30
		1857.5 (18675)	10.07	10.02	10.17	10.35
	36RB-Middle (19)	1902.5 (19125)	10.19	10.07	10.19	10.33
		1880 (18900)	10.25	9.99	10.20	10.40
		1857.5 (18675)	10.11	10.19	10.35	10.40
	36RB-Low (0)	1902.5 (19125)	10.24	10.28	10.35	10.37
		1880 (18900)	10.18	9.99	10.34	10.46
		1857.5 (18675)	10.28	10.01	10.23	10.37
	75RB (0)	1902.5 (19125)	10.14	9.96	10.27	10.13
		1880 (18900)	10.14	10.05	10.15	10.10
		1857.5 (18675)	10.03	10.28	10.26	10.15
20MHz	1RB-High (99)	1900 (19100)	10.00	10.25	10.25	10.58
		1880 (18900)	10.12	10.26	10.18	10.67
		1860 (18700)	10.19	10.00	10.16	10.68
	1RB-Middle (50)	1900 (19100)	9.97	10.13	10.21	10.66
		1880 (18900)	10.12	10.29	10.24	10.52
		1860 (18700)	10.27	9.99	10.17	10.58
	1RB-Low (0)	1900 (19100)	10.30	10.06	10.19	10.57
		1880 (18900)	10.08	10.06	10.29	10.60
		1860 (18700)	9.95	10.25	10.30	10.55
	50RB-High (50)	1900 (19100)	10.24	10.07	10.30	10.38
1880 (18900)		9.96	10.28	10.18	10.47	

	50RB-Middle (25)	1860 (18700)	10.12	10.28	10.27	10.48
		1900 (19100)	10.04	10.27	10.19	10.46
		1880 (18900)	10.28	10.24	10.24	10.32
		1860 (18700)	10.15	10.07	10.19	10.38
	50RB-Low (0)	1900 (19100)	9.99	9.97	10.35	10.37
		1880 (18900)	10.30	10.03	10.34	10.40
		1860 (18700)	9.96	10.29	10.34	10.35
	100RB (0)	1900 (19100)	10.18	10.00	10.34	10.18
		1880 (18900)	10.14	10.09	10.33	10.27
		1860 (18700)	10.19	10.02	10.25	10.28

LTE B2-ANT0 (Power Level A1)

BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM	256QAM
1.4MHz	1RB-High (5)	1909.3 (19193)	22.74	21.88	20.75	17.76
		1880 (18900)	22.93	21.72	20.75	17.89
		1850.7 (18607)	22.68	21.79	20.94	17.58
	1RB-Middle (3)	1909.3 (19193)	22.67	21.89	20.82	17.72
		1880 (18900)	22.73	21.68	20.91	17.61
		1850.7 (18607)	22.94	21.88	20.73	17.78
	1RB-Low (0)	1909.3 (19193)	22.80	21.68	20.71	17.69
		1880 (18900)	22.89	21.88	20.68	17.92
		1850.7 (18607)	22.82	21.88	20.66	17.69
	3RB-High (3)	1909.3 (19193)	21.92	20.73	19.97	17.63
		1880 (18900)	21.63	20.70	19.85	17.93
		1850.7 (18607)	21.73	20.96	19.95	17.92
	3RB-Middle (1)	1909.3 (19193)	21.69	20.91	19.74	17.62
		1880 (18900)	21.66	20.77	19.79	17.65
		1850.7 (18607)	21.74	20.80	19.84	17.58
	3RB-Low (0)	1909.3 (19193)	21.89	21.02	19.87	17.76
		1880 (18900)	21.93	20.66	19.77	17.74
		1850.7 (18607)	21.59	20.96	19.86	17.72
	6RB (0)	1909.3 (19193)	21.80	20.99	20.00	17.60
		1880 (18900)	21.70	21.01	19.69	17.73
		1850.7 (18607)	21.71	20.54	19.73	17.59
3MHz	1RB-High (14)	1908.5 (19185)	22.75	21.93	20.76	17.72
		1880 (18900)	22.93	21.80	20.75	17.57
		1851.5 (18615)	22.85	21.85	20.77	17.91
	1RB-Middle (7)	1908.5 (19185)	22.75	21.79	20.66	17.57
		1880 (18900)	22.68	21.73	20.76	17.91
		1851.5 (18615)	22.83	21.68	20.87	17.63
	1RB-Low (0)	1908.5 (19185)	22.86	21.94	20.68	17.56
1880 (18900)		22.75	21.74	20.84	17.67	

		1851.5 (18615)	22.89	21.77	20.92	17.65
	8RB-High (7)	1908.5 (19185)	21.84	20.95	19.98	17.66
		1880 (18900)	21.79	20.77	19.78	17.90
		1851.5 (18615)	21.85	20.77	19.88	17.85
	8RB-Middle (4)	1908.5 (19185)	21.90	20.64	19.89	17.63
		1880 (18900)	21.74	20.83	19.79	17.75
		1851.5 (18615)	21.90	20.72	19.84	17.86
	8RB-Low (0)	1908.5 (19185)	21.74	20.52	19.70	17.69
		1880 (18900)	21.79	20.68	19.76	17.68
		1851.5 (18615)	21.78	20.73	20.00	17.82
	15RB (0)	1908.5 (19185)	21.87	20.79	19.79	17.78
		1880 (18900)	21.91	20.90	19.85	17.59
		1851.5 (18615)	21.71	20.70	19.82	17.86
5MHz	1RB-High (24)	1907.5 (19175)	22.96	21.78	20.79	17.68
		1880 (18900)	22.85	21.85	20.69	17.71
		1852.5 (18625)	22.69	21.84	20.76	17.78
	1RB-Middle (12)	1907.5 (19175)	22.72	21.96	20.90	17.85
		1880 (18900)	22.81	21.79	20.81	17.61
		1852.5 (18625)	22.88	21.92	20.68	17.77
	1RB-Low (0)	1907.5 (19175)	22.96	21.78	20.83	17.73
		1880 (18900)	22.89	21.85	20.86	17.88
		1852.5 (18625)	22.76	21.69	20.69	17.67
	12RB-High (13)	1907.5 (19175)	21.76	20.63	19.83	17.73
		1880 (18900)	21.72	20.92	19.69	17.81
		1852.5 (18625)	21.77	20.83	19.61	17.60
	12RB-Middle (6)	1907.5 (19175)	21.55	20.80	19.80	17.57
		1880 (18900)	21.80	20.52	19.79	17.79
		1852.5 (18625)	21.72	20.80	19.80	17.67
	12RB-Low (0)	1907.5 (19175)	21.87	20.65	19.86	17.92
		1880 (18900)	21.87	20.77	19.76	17.72
		1852.5 (18625)	21.83	20.77	19.64	17.85
	25RB (0)	1907.5 (19175)	21.74	20.99	19.91	17.83
		1880 (18900)	21.57	20.71	19.89	17.67
		1852.5 (18625)	21.78	20.86	19.74	17.68
10MHz	1RB-High (49)	1905 (19150)	22.78	21.70	20.83	17.85
		1880 (18900)	22.66	21.84	20.89	17.79
		1855 (18650)	22.87	21.85	20.79	17.87
	1RB-Middle (24)	1905 (19150)	22.89	21.83	20.83	17.87
		1880 (18900)	22.80	21.74	20.79	17.85
		1855 (18650)	22.96	21.79	20.95	17.95
	1RB-Low (0)	1905 (19150)	22.72	21.72	20.89	17.72
		1880 (18900)	22.78	21.78	20.89	17.87

		1855 (18650)	22.82	21.71	20.89	17.76
	25RB-High (25)	1905 (19150)	21.90	20.82	19.84	17.70
		1880 (18900)	21.77	20.78	19.62	17.81
		1855 (18650)	21.78	20.75	19.71	17.89
	25RB-Middle (12)	1905 (19150)	21.94	20.85	19.67	17.87
		1880 (18900)	21.79	20.54	19.69	17.58
		1855 (18650)	21.89	20.89	20.02	17.91
	25RB-Low (0)	1905 (19150)	21.63	20.93	19.84	17.68
		1880 (18900)	21.87	20.89	19.93	17.79
		1855 (18650)	21.67	20.71	19.63	17.94
	50RB (0)	1905 (19150)	21.91	20.78	19.84	17.73
		1880 (18900)	21.73	20.65	19.95	17.60
		1855 (18650)	21.85	20.59	20.01	17.72
15MHz	1RB-High (74)	1902.5 (19125)	22.96	21.91	20.67	17.92
		1880 (18900)	22.96	21.87	20.76	17.57
		1857.5 (18675)	22.93	21.85	20.87	17.72
	1RB-Middle (37)	1902.5 (19125)	22.84	21.87	20.91	17.64
		1880 (18900)	22.69	21.86	20.93	17.88
		1857.5 (18675)	22.77	21.91	20.82	17.59
	1RB-Low (0)	1902.5 (19125)	22.74	21.81	20.72	17.96
		1880 (18900)	22.71	21.83	20.72	17.88
		1857.5 (18675)	22.77	21.87	20.71	17.58
	36RB-High (38)	1902.5 (19125)	21.80	20.54	19.86	17.62
		1880 (18900)	21.60	20.75	19.96	17.69
		1857.5 (18675)	22.04	20.97	19.80	17.56
	36RB-Middle (19)	1902.5 (19125)	21.85	20.71	19.75	17.61
		1880 (18900)	21.70	20.59	20.01	17.94
		1857.5 (18675)	21.93	20.76	19.76	17.94
	36RB-Low (0)	1902.5 (19125)	21.80	20.79	19.69	17.79
		1880 (18900)	21.80	20.69	19.89	17.78
		1857.5 (18675)	21.55	20.76	19.70	17.75
75RB (0)	1902.5 (19125)	21.56	20.71	19.60	17.84	
	1880 (18900)	21.84	20.73	19.82	17.84	
	1857.5 (18675)	21.74	20.99	19.98	17.96	
20MHz	1RB-High (99)	1900 (19100)	22.31	21.85	20.72	17.65
		1880 (18900)	22.65	21.95	20.88	17.89
		1860 (18700)	22.31	21.90	20.67	17.70
	1RB-Middle (50)	1900 (19100)	22.56	21.74	20.95	17.60
		1880 (18900)	22.66	21.96	20.80	17.56
		1860 (18700)	22.34	21.66	20.86	17.64
	1RB-Low (0)	1900 (19100)	22.61	21.82	20.90	17.95
		1880 (18900)	22.34	21.71	20.73	17.70

		1860 (18700)	22.60	21.85	20.73	17.85
	50RB-High (50)	1900 (19100)	21.96	20.92	19.86	17.87
		1880 (18900)	21.80	20.55	19.94	17.56
		1860 (18700)	21.70	20.71	19.79	17.76
	50RB-Middle (25)	1900 (19100)	21.62	20.53	19.80	17.67
		1880 (18900)	21.97	20.57	19.87	17.60
		1860 (18700)	21.91	20.90	19.81	17.69
	50RB-Low (0)	1900 (19100)	21.83	20.86	19.99	17.94
		1880 (18900)	21.89	20.84	19.75	17.86
		1860 (18700)	21.82	20.69	19.76	17.61
	100RB (0)	1900 (19100)	21.69	20.70	19.72	17.84
		1880 (18900)	21.67	21.05	19.84	17.79
		1860 (18700)	21.81	20.71	19.67	17.93

LTE B2-ANT0 (Power Level C1)

BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM	256QAM
1.4MHz	1RB-High (5)	1909.3 (19193)	10.88	10.77	10.73	10.64
		1880 (18900)	10.82	10.82	10.79	10.62
		1850.7 (18607)	10.71	10.82	10.80	10.71
	1RB-Middle (3)	1909.3 (19193)	10.78	10.86	10.75	10.65
		1880 (18900)	10.78	10.84	10.88	10.75
		1850.7 (18607)	10.80	10.86	10.72	10.63
	1RB-Low (0)	1909.3 (19193)	10.79	10.74	10.78	10.66
		1880 (18900)	10.88	10.77	10.85	10.72
		1850.7 (18607)	10.73	10.75	10.79	10.69
	3RB-High (3)	1909.3 (19193)	10.75	10.61	10.71	10.63
		1880 (18900)	10.71	10.73	10.62	10.69
		1850.7 (18607)	10.69	10.71	10.66	10.67
	3RB-Middle (1)	1909.3 (19193)	10.63	10.73	10.67	10.64
		1880 (18900)	10.72	10.63	10.70	10.74
		1850.7 (18607)	10.62	10.74	10.75	10.66
	3RB-Low (0)	1909.3 (19193)	10.62	10.75	10.70	10.67
		1880 (18900)	10.68	10.72	10.67	10.63
		1850.7 (18607)	10.73	10.61	10.68	10.72
6RB (0)	1909.3 (19193)	10.63	10.65	10.62	10.64	
	1880 (18900)	10.64	10.73	10.68	10.68	
	1850.7 (18607)	10.66	10.63	10.64	10.62	
3MHz	1RB-High (14)	1908.5 (19185)	10.72	10.80	10.82	10.67
		1880 (18900)	10.78	10.72	10.78	10.70
		1851.5 (18615)	10.72	10.77	10.82	10.75
	1RB-Middle (7)	1908.5 (19185)	10.83	10.76	10.71	10.63
		1880 (18900)	10.80	10.78	10.78	10.67

		1851.5 (18615)	10.80	10.79	10.86	10.73
	1RB-Low (0)	1908.5 (19185)	10.79	10.88	10.74	10.63
		1880 (18900)	10.87	10.74	10.81	10.68
		1851.5 (18615)	10.74	10.86	10.73	10.65
	8RB-High (7)	1908.5 (19185)	10.72	10.74	10.61	10.70
		1880 (18900)	10.70	10.75	10.68	10.75
		1851.5 (18615)	10.72	10.61	10.71	10.66
	8RB-Middle (4)	1908.5 (19185)	10.70	10.68	10.62	10.66
		1880 (18900)	10.75	10.65	10.68	10.66
		1851.5 (18615)	10.72	10.72	10.72	10.68
	8RB-Low (0)	1908.5 (19185)	10.65	10.66	10.74	10.65
		1880 (18900)	10.70	10.62	10.69	10.74
		1851.5 (18615)	10.73	10.66	10.61	10.70
	15RB (0)	1908.5 (19185)	10.71	10.61	10.67	10.73
		1880 (18900)	10.73	10.72	10.62	10.66
		1851.5 (18615)	10.63	10.69	10.68	10.69
5MHz	1RB-High (24)	1907.5 (19175)	10.87	10.75	10.79	10.62
		1880 (18900)	10.71	10.79	10.85	10.66
		1852.5 (18625)	10.82	10.88	10.82	10.72
	1RB-Middle (12)	1907.5 (19175)	10.75	10.87	10.88	10.63
		1880 (18900)	10.81	10.84	10.76	10.66
		1852.5 (18625)	10.73	10.78	10.89	10.75
	1RB-Low (0)	1907.5 (19175)	10.81	10.80	10.82	10.61
		1880 (18900)	10.74	10.89	10.81	10.67
		1852.5 (18625)	10.81	10.76	10.77	10.70
	12RB-High (13)	1907.5 (19175)	10.66	10.65	10.73	10.73
		1880 (18900)	10.61	10.62	10.67	10.75
		1852.5 (18625)	10.61	10.65	10.75	10.73
	12RB-Middle (6)	1907.5 (19175)	10.68	10.62	10.63	10.74
		1880 (18900)	10.67	10.64	10.65	10.70
		1852.5 (18625)	10.67	10.63	10.69	10.70
	12RB-Low (0)	1907.5 (19175)	10.73	10.75	10.68	10.69
		1880 (18900)	10.63	10.63	10.66	10.62
		1852.5 (18625)	10.69	10.75	10.61	10.63
25RB (0)	1907.5 (19175)	10.74	10.62	10.69	10.70	
	1880 (18900)	10.70	10.68	10.75	10.66	
	1852.5 (18625)	10.66	10.70	10.74	10.67	
10MHz	1RB-High (49)	1905 (19150)	10.73	10.79	10.87	10.63
		1880 (18900)	10.87	10.79	10.80	10.69
		1855 (18650)	10.75	10.80	10.87	10.75
	1RB-Middle (24)	1905 (19150)	10.81	10.71	10.87	10.73
		1880 (18900)	10.85	10.85	10.89	10.72

		1855 (18650)	10.82	10.85	10.72	10.65
	1RB-Low (0)	1905 (19150)	10.85	10.76	10.81	10.69
		1880 (18900)	10.83	10.78	10.80	10.64
		1855 (18650)	10.89	10.87	10.71	10.64
	25RB-High (25)	1905 (19150)	10.69	10.67	10.63	10.65
		1880 (18900)	10.67	10.63	10.67	10.65
		1855 (18650)	10.73	10.69	10.61	10.65
	25RB-Middle (12)	1905 (19150)	10.68	10.72	10.64	10.73
		1880 (18900)	10.68	10.73	10.73	10.66
		1855 (18650)	10.62	10.61	10.67	10.62
	25RB-Low (0)	1905 (19150)	10.63	10.73	10.64	10.70
		1880 (18900)	10.61	10.66	10.68	10.70
		1855 (18650)	10.72	10.65	10.75	10.74
	50RB (0)	1905 (19150)	10.66	10.65	10.70	10.62
		1880 (18900)	10.62	10.67	10.65	10.64
		1855 (18650)	10.68	10.61	10.66	10.71
15MHz	1RB-High (74)	1902.5 (19125)	10.73	10.86	10.78	10.70
		1880 (18900)	10.88	10.74	10.76	10.63
		1857.5 (18675)	10.86	10.80	10.74	10.67
	1RB-Middle (37)	1902.5 (19125)	10.86	10.81	10.79	10.71
		1880 (18900)	10.84	10.89	10.79	10.65
		1857.5 (18675)	10.83	10.74	10.87	10.73
	1RB-Low (0)	1902.5 (19125)	10.72	10.89	10.87	10.65
		1880 (18900)	10.86	10.83	10.89	10.69
		1857.5 (18675)	10.72	10.71	10.86	10.67
	36RB-High (38)	1902.5 (19125)	10.61	10.73	10.75	10.69
		1880 (18900)	10.72	10.71	10.64	10.64
		1857.5 (18675)	10.66	10.72	10.71	10.66
	36RB-Middle (19)	1902.5 (19125)	10.66	10.72	10.64	10.65
		1880 (18900)	10.65	10.70	10.68	10.68
		1857.5 (18675)	10.69	10.70	10.67	10.62
	36RB-Low (0)	1902.5 (19125)	10.66	10.61	10.67	10.65
		1880 (18900)	10.72	10.69	10.69	10.62
		1857.5 (18675)	10.75	10.71	10.68	10.74
75RB (0)	1902.5 (19125)	10.75	10.71	10.75	10.73	
	1880 (18900)	10.66	10.66	10.75	10.72	
	1857.5 (18675)	10.75	10.66	10.65	10.69	
20MHz	1RB-High (99)	1900 (19100)	10.71	10.76	10.73	10.61
		1880 (18900)	10.79	10.89	10.82	10.64
		1860 (18700)	10.75	10.71	10.84	10.67
	1RB-Middle (50)	1900 (19100)	10.74	10.75	10.80	10.72
		1880 (18900)	10.87	10.77	10.75	10.69

		1860 (18700)	10.81	10.81	10.78	10.69
1RB-Low (0)		1900 (19100)	10.71	10.88	10.83	10.75
		1880 (18900)	10.80	10.83	10.77	10.73
		1860 (18700)	10.87	10.84	10.88	10.71
50RB-High (50)		1900 (19100)	10.71	10.72	10.66	10.64
		1880 (18900)	10.74	10.74	10.62	10.64
		1860 (18700)	10.70	10.69	10.66	10.71
50RB-Middle (25)		1900 (19100)	10.61	10.68	10.64	10.65
		1880 (18900)	10.68	10.66	10.71	10.75
		1860 (18700)	10.61	10.65	10.70	10.70
50RB-Low (0)		1900 (19100)	10.64	10.69	10.72	10.65
		1880 (18900)	10.79	10.71	10.61	10.72
		1860 (18700)	10.67	10.72	10.71	10.63
100RB (0)		1900 (19100)	10.75	10.63	10.72	10.63
		1880 (18900)	10.74	10.67	10.75	10.62
		1860 (18700)	10.64	10.74	10.71	10.67

LTE B5 (Power Level A1)

BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM	256QAM
1.4MHz	1RB-High (5)	848.3 (20643)	22.82	21.94	20.95	18.14
		836.5 (20525)	22.83	22.22	21.06	17.90
		824.7 (20407)	22.83	22.14	21.10	17.97
	1RB-Middle (3)	848.3 (20643)	22.84	22.04	20.90	18.05
		836.5 (20525)	22.86	22.18	21.07	18.15
		824.7 (20407)	22.96	22.11	21.10	18.11
	1RB-Low (0)	848.3 (20643)	22.82	22.12	21.09	18.07
		836.5 (20525)	22.87	22.22	21.11	17.89
		824.7 (20407)	22.83	22.14	21.07	18.03
	3RB-High (3)	848.3 (20643)	22.74	21.77	20.88	18.17
		836.5 (20525)	22.88	21.92	21.08	18.13
		824.7 (20407)	22.91	21.88	21.09	17.89
	3RB-Middle (1)	848.3 (20643)	22.77	21.83	20.91	17.94
		836.5 (20525)	22.82	21.97	21.11	18.01
		824.7 (20407)	22.81	22.06	21.04	18.15
	3RB-Low (0)	848.3 (20643)	22.76	21.84	20.99	18.19
		836.5 (20525)	22.80	21.93	20.96	18.04
		824.7 (20407)	22.81	22.05	21.03	18.00
	6RB (0)	848.3 (20643)	21.83	20.91	19.83	18.03
		836.5 (20525)	21.98	21.05	19.92	18.01
		824.7 (20407)	21.99	21.08	19.95	18.16
3MHz	1RB-High (14)	847.5 (20635)	22.70	22.02	21.01	18.18

		836.5 (20525)	22.78	22.20	21.14	18.17
		825.5 (20415)	22.86	22.19	21.16	18.10
	1RB-Middle (7)	847.5 (20635)	22.73	22.15	21.09	18.05
		836.5 (20525)	22.86	22.31	21.19	18.10
	1RB-Low (0)	825.5 (20415)	22.82	22.34	21.14	17.99
		847.5 (20635)	22.78	22.06	21.05	18.00
	8RB-High (7)	836.5 (20525)	22.89	22.30	21.18	17.89
		825.5 (20415)	22.93	22.25	21.13	18.02
		847.5 (20635)	21.82	20.92	19.89	17.95
	8RB-Middle (4)	836.5 (20525)	21.94	21.01	20.04	17.93
		825.5 (20415)	21.94	20.99	19.99	18.11
		847.5 (20635)	21.86	20.95	19.87	17.96
	8RB-Low (0)	836.5 (20525)	21.96	21.02	20.02	18.11
		825.5 (20415)	21.98	21.02	19.95	18.01
		847.5 (20635)	21.91	20.94	19.93	17.90
	15RB (0)	836.5 (20525)	21.96	21.02	20.04	18.05
		825.5 (20415)	21.98	21.04	20.00	18.04
		847.5 (20635)	21.85	20.87	19.85	17.93
	1RB-High (24)	836.5 (20525)	21.96	20.99	19.96	18.01
		825.5 (20415)	21.98	21.02	19.93	18.16
		846.5 (20625)	22.76	22.12	21.03	17.94
	1RB-Middle (12)	836.5 (20525)	22.87	22.21	21.17	17.99
		826.5 (20425)	22.98	22.20	21.10	17.90
		846.5 (20625)	22.80	22.16	21.16	18.18
	1RB-Low (0)	836.5 (20525)	22.90	22.17	21.19	18.17
		826.5 (20425)	22.98	22.25	21.10	18.15
		846.5 (20625)	22.93	22.16	21.06	18.06
	12RB-High (13)	836.5 (20525)	22.96	22.31	21.17	17.92
		826.5 (20425)	22.88	22.27	21.21	17.91
		846.5 (20625)	21.88	20.85	19.88	17.89
	12RB-Middle (6)	836.5 (20525)	22.00	20.96	19.97	18.11
		826.5 (20425)	21.96	20.98	20.00	18.01
		846.5 (20625)	21.95	20.91	19.95	18.07
	12RB-Low (0)	836.5 (20525)	22.00	21.00	20.05	18.15
		826.5 (20425)	22.02	20.97	19.96	18.19
		846.5 (20625)	21.98	21.01	19.98	17.90
	25RB (0)	836.5 (20525)	22.04	21.05	20.03	17.92
		826.5 (20425)	22.02	21.03	20.03	18.19
		846.5 (20625)	21.93	20.96	19.91	18.07
		836.5 (20525)	22.04	21.03	20.00	18.18
		826.5 (20425)	22.06	21.00	20.00	18.04
10MHz	1RB-High (49)	844 (20600)	22.84	22.16	21.08	18.17

		836.5 (20525)	22.94	22.24	21.21	18.04	
		829 (20450)	23.01	22.18	21.13	18.04	
	1RB-Middle (24)	844 (20600)	22.81	22.28	21.12	18.06	
		836.5 (20525)	23.01	22.20	21.21	17.95	
	1RB-Low (0)	829 (20450)	22.91	22.05	21.09	17.94	
		844 (20600)	22.94	22.27	21.19	17.98	
		836.5 (20525)	22.93	22.36	21.16	18.01	
	25RB-High (25)	829 (20450)	22.92	22.25	21.22	18.02	
		844 (20600)	21.90	20.90	19.89	17.93	
		836.5 (20525)	21.97	20.97	19.95	17.91	
	25RB-Middle (12)	829 (20450)	21.94	20.93	19.91	17.99	
		844 (20600)	21.93	20.95	19.92	17.98	
		836.5 (20525)	22.00	21.01	19.98	17.99	
	25RB-Low (0)	829 (20450)	21.94	20.93	19.94	17.94	
		844 (20600)	21.92	20.93	19.92	18.09	
		836.5 (20525)	22.03	21.02	19.98	17.99	
	50RB (0)	829 (20450)	22.02	21.00	19.96	17.91	
		844 (20600)	21.95	20.94	19.91	17.95	
		836.5 (20525)	22.03	21.01	19.97	18.02	
			829 (20450)	21.99	20.98	19.97	17.97

LTE B5 (Power Level B1)

BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM	256QAM
1.4MHz	1RB-High (5)	848.3 (20643)	21.51	20.64	20.55	18.03
		836.5 (20525)	21.56	20.58	20.66	18.07
		824.7 (20407)	21.45	20.51	20.70	17.97
	1RB-Middle (3)	848.3 (20643)	21.56	20.59	20.51	18.06
		836.5 (20525)	21.43	20.63	20.67	17.97
		824.7 (20407)	21.54	20.72	20.70	17.97
	1RB-Low (0)	848.3 (20643)	21.54	20.56	20.69	18.06
		836.5 (20525)	21.50	20.63	20.71	17.99
		824.7 (20407)	21.61	20.61	20.67	18.01
	3RB-High (3)	848.3 (20643)	20.77	20.82	20.79	17.82
		836.5 (20525)	20.77	20.81	20.99	17.76
		824.7 (20407)	20.67	20.77	21.00	17.71
	3RB-Middle (1)	848.3 (20643)	20.75	20.82	20.82	17.76
		836.5 (20525)	20.67	20.82	21.01	17.69
		824.7 (20407)	20.65	20.74	20.95	17.69
	3RB-Low (0)	848.3 (20643)	20.72	20.81	20.90	17.79
		836.5 (20525)	20.77	20.82	20.87	17.76
		824.7 (20407)	20.70	20.82	20.94	17.76

	6RB (0)	848.3 (20643)	20.75	20.87	19.74	17.76	
		836.5 (20525)	20.74	20.84	19.83	17.72	
		824.7 (20407)	20.77	20.81	19.86	17.72	
3MHz	1RB-High (14)	847.5 (20635)	21.54	20.72	20.61	18.08	
		836.5 (20525)	21.51	20.63	20.74	18.08	
		825.5 (20415)	21.58	20.64	20.76	17.99	
	1RB-Middle (7)	847.5 (20635)	21.45	20.53	20.69	17.97	
		836.5 (20525)	21.43	20.56	20.79	17.95	
		825.5 (20415)	21.54	20.58	20.74	18.00	
	1RB-Low (0)	847.5 (20635)	21.58	20.59	20.65	18.03	
		836.5 (20525)	21.50	20.74	20.78	18.10	
		825.5 (20415)	21.66	20.64	20.73	18.15	
	8RB-High (7)	847.5 (20635)	20.30	19.73	19.80	17.03	
		836.5 (20525)	20.70	20.82	19.95	17.74	
		825.5 (20415)	20.70	20.81	19.90	17.72	
	8RB-Middle (4)	847.5 (20635)	20.67	20.81	19.78	17.69	
		836.5 (20525)	20.70	20.82	19.93	17.74	
		825.5 (20415)	20.65	20.81	19.86	17.69	
	8RB-Low (0)	847.5 (20635)	20.74	20.85	19.84	17.76	
		836.5 (20525)	20.75	20.85	19.95	17.75	
		825.5 (20415)	20.75	20.84	19.91	17.74	
	15RB (0)	847.5 (20635)	20.72	20.82	19.76	17.76	
		836.5 (20525)	20.75	20.84	19.87	17.74	
		825.5 (20415)	20.70	20.81	19.84	17.71	
	5MHz	1RB-High (24)	846.5 (20625)	21.58	20.64	20.63	18.08
			836.5 (20525)	21.56	20.64	20.77	18.06
			826.5 (20425)	21.50	20.58	20.70	18.03
1RB-Middle (12)		846.5 (20625)	21.51	20.56	20.76	18.03	
		836.5 (20525)	21.50	20.74	20.79	18.06	
		826.5 (20425)	21.50	20.56	20.70	18.06	
1RB-Low (0)		846.5 (20625)	21.53	20.68	20.66	18.07	
		836.5 (20525)	21.58	20.71	20.77	18.10	
		826.5 (20425)	21.53	20.61	20.81	18.10	
12RB-High (13)		846.5 (20625)	20.70	20.81	19.79	17.76	
		836.5 (20525)	20.70	20.82	19.88	17.78	
		826.5 (20425)	20.70	20.82	19.91	17.76	
12RB-Middle (6)		846.5 (20625)	20.67	20.81	19.86	17.74	
		836.5 (20525)	20.69	20.82	19.96	17.76	
		826.5 (20425)	20.67	20.79	19.87	17.72	
12RB-Low (0)		846.5 (20625)	20.74	20.87	19.89	17.78	
		836.5 (20525)	20.75	20.85	19.94	17.81	
		826.5 (20425)	20.75	20.85	19.94	17.78	

	25RB (0)	846.5 (20625)	20.74	20.84	19.82	17.75
		836.5 (20525)	20.78	20.84	19.91	17.74
		826.5 (20425)	20.74	20.82	19.91	17.74
10MHz	1RB-High (49)	844 (20600)	21.66	20.64	20.68	18.11
		836.5 (20525)	21.62	20.69	20.81	18.10
		829 (20450)	21.54	20.61	20.73	18.08
	1RB-Middle (24)	844 (20600)	21.53	20.56	20.72	17.99
		836.5 (20525)	21.46	20.71	20.81	18.00
		829 (20450)	21.48	20.55	20.69	18.01
	1RB-Low (0)	844 (20600)	21.67	20.64	20.79	18.15
		836.5 (20525)	21.56	20.64	20.76	18.08
		829 (20450)	21.53	20.61	20.82	18.10
	25RB-High (25)	844 (20600)	20.70	20.79	19.80	17.72
		836.5 (20525)	20.75	20.85	19.86	17.81
		829 (20450)	20.75	20.85	19.82	17.76
	25RB-Middle (12)	844 (20600)	20.78	20.82	19.83	17.79
		836.5 (20525)	20.75	20.84	19.89	17.81
		829 (20450)	20.72	20.82	19.85	17.74
	25RB-Low (0)	844 (20600)	20.77	20.86	19.83	17.81
		836.5 (20525)	20.80	20.87	19.89	17.82
		829 (20450)	20.72	20.81	19.87	17.75
	50RB (0)	844 (20600)	20.75	20.85	19.82	17.78
		836.5 (20525)	20.78	20.87	19.88	17.82
		829 (20450)	20.74	20.82	19.88	17.74

LTE B5 (Power Level C1)

BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM	256QAM
1.4MHz	1RB-High (5)	848.3 (20643)	17.66	17.81	17.76	18.09
		836.5 (20525)	17.70	17.65	17.79	17.98
		824.7 (20407)	17.62	17.65	17.57	18.08
	1RB-Middle (3)	848.3 (20643)	17.67	17.77	17.62	17.96
		836.5 (20525)	17.84	17.82	17.57	18.04
		824.7 (20407)	17.85	17.57	17.72	18.06
	1RB-Low (0)	848.3 (20643)	17.81	17.79	17.81	18.04
		836.5 (20525)	17.84	17.78	17.76	17.91
		824.7 (20407)	17.62	17.81	17.81	18.09
	3RB-High (3)	848.3 (20643)	17.78	17.58	17.58	17.63
		836.5 (20525)	17.82	17.56	17.56	17.58
		824.7 (20407)	17.61	17.63	17.70	17.59
	3RB-Middle (1)	848.3 (20643)	17.58	17.67	17.73	17.63
		836.5 (20525)	17.57	17.65	17.55	17.72

		824.7 (20407)	17.64	17.76	17.68	17.74
	3RB-Low (0)	848.3 (20643)	17.65	17.57	17.61	17.55
		836.5 (20525)	17.58	17.70	17.68	17.63
		824.7 (20407)	17.62	17.59	17.70	17.65
	6RB (0)	848.3 (20643)	17.68	17.56	17.85	17.68
		836.5 (20525)	17.69	17.57	17.66	17.74
		824.7 (20407)	17.63	17.83	17.70	17.59
3MHz	1RB-High (14)	847.5 (20635)	17.85	17.62	17.74	17.99
		836.5 (20525)	17.58	17.76	17.62	18.04
		825.5 (20415)	17.79	17.67	17.55	18.09
	1RB-Middle (7)	847.5 (20635)	17.56	17.57	17.61	17.99
		836.5 (20525)	17.66	17.77	17.64	17.98
		825.5 (20415)	17.84	17.78	17.55	18.04
	1RB-Low (0)	847.5 (20635)	17.56	17.63	17.72	18.07
		836.5 (20525)	17.69	17.85	17.84	18.04
		825.5 (20415)	17.81	17.75	17.67	18.03
	8RB-High (7)	847.5 (20635)	17.62	17.75	17.59	17.67
		836.5 (20525)	17.77	17.66	17.78	17.69
		825.5 (20415)	17.59	17.84	17.58	17.75
	8RB-Middle (4)	847.5 (20635)	17.71	17.78	17.55	17.59
		836.5 (20525)	17.67	17.62	17.67	17.58
		825.5 (20415)	17.75	17.67	17.76	17.59
	8RB-Low (0)	847.5 (20635)	17.69	17.61	17.66	17.64
		836.5 (20525)	17.63	17.67	17.72	17.66
		825.5 (20415)	17.61	17.57	17.83	17.70
	15RB (0)	847.5 (20635)	17.55	17.85	17.65	17.71
		836.5 (20525)	17.60	17.76	17.55	17.62
		825.5 (20415)	17.77	17.85	17.75	17.73
5MHz	1RB-High (24)	846.5 (20625)	17.78	17.72	17.62	18.05
		836.5 (20525)	17.65	17.68	17.64	17.98
		826.5 (20425)	17.62	17.79	17.59	18.01
	1RB-Middle (12)	846.5 (20625)	17.67	17.62	17.73	17.95
		836.5 (20525)	17.56	17.82	17.61	18.02
		826.5 (20425)	17.57	17.60	17.59	17.99
	1RB-Low (0)	846.5 (20625)	17.56	17.64	17.72	17.97
		836.5 (20525)	17.66	17.68	17.71	18.06
		826.5 (20425)	17.71	17.69	17.70	18.01
	12RB-High (13)	846.5 (20625)	17.64	17.83	17.80	17.68
		836.5 (20525)	17.85	17.55	17.73	17.72
		826.5 (20425)	17.79	17.72	17.55	17.70
	12RB-Middle (6)	846.5 (20625)	17.79	17.75	17.62	17.71
		836.5 (20525)	17.79	17.56	17.71	17.71

		826.5 (20425)	17.81	17.80	17.58	17.61
	12RB-Low (0)	846.5 (20625)	17.77	17.78	17.79	17.56
		836.5 (20525)	17.83	17.58	17.73	17.65
		826.5 (20425)	17.57	17.57	17.62	17.65
	25RB (0)	846.5 (20625)	17.75	17.79	17.73	17.73
		836.5 (20525)	17.58	17.74	17.55	17.71
		826.5 (20425)	17.71	17.69	17.64	17.75
10MHz	1RB-High (49)	844 (20600)	17.87	17.82	17.78	17.97
		836.5 (20525)	17.79	17.72	17.83	18.03
		829 (20450)	17.61	17.64	17.84	17.96
	1RB-Middle (24)	844 (20600)	17.77	17.58	17.67	18.05
		836.5 (20525)	17.76	17.64	17.64	18.04
		829 (20450)	17.68	17.62	17.72	18.01
	1RB-Low (0)	844 (20600)	17.82	17.58	17.70	18.02
		836.5 (20525)	17.68	17.81	17.82	18.03
		829 (20450)	17.75	17.70	17.76	18.04
	25RB-High (25)	844 (20600)	17.60	17.75	17.72	17.64
		836.5 (20525)	17.61	17.76	17.61	17.75
		829 (20450)	17.63	17.55	17.71	17.74
	25RB-Middle (12)	844 (20600)	17.79	17.85	17.66	17.72
		836.5 (20525)	17.66	17.67	17.68	17.69
		829 (20450)	17.56	17.73	17.69	17.63
	25RB-Low (0)	844 (20600)	17.74	17.55	17.55	17.64
		836.5 (20525)	17.75	17.71	17.76	17.75
		829 (20450)	17.67	17.61	17.83	17.64
	50RB (0)	844 (20600)	17.73	17.81	17.83	17.55
		836.5 (20525)	17.76	17.58	17.56	17.62
		829 (20450)	17.72	17.85	17.59	17.71

LTE B7 (Power Level A1)

BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM	256QAM
5MHz	1RB-High (24)	2567.5 (21425)	22.93	22.09	20.94	18.35
		2535 (21100)	22.95	22.28	21.14	18.07
		2502.5 (20775)	22.91	22.15	21.02	18.29
	1RB-Middle (12)	2567.5 (21425)	22.80	22.07	21.05	18.14
		2535 (21100)	23.06	22.41	21.25	18.06
		2502.5 (20775)	22.73	22.08	21.00	18.35
	1RB-Low (0)	2567.5 (21425)	22.72	22.07	20.96	18.07
		2535 (21100)	23.05	22.36	21.36	18.32
		2502.5 (20775)	22.65	21.85	20.85	18.22
	12RB-High (13)	2567.5 (21425)	21.81	20.85	19.88	18.10

		2535 (21100)	22.01	21.02	20.04	18.21	
		2502.5 (20775)	21.78	20.78	19.85	18.06	
		2567.5 (21425)	21.82	20.81	19.86	18.33	
	12RB-Middle (6)	2535 (21100)	22.02	21.11	20.10	18.24	
		2502.5 (20775)	21.78	20.73	19.76	18.08	
		2567.5 (21425)	21.85	20.85	19.89	18.34	
	12RB-Low (0)	2535 (21100)	22.07	21.12	20.09	18.07	
		2502.5 (20775)	21.71	20.75	19.74	18.18	
		2567.5 (21425)	21.82	20.83	19.82	18.29	
	25RB (0)	2535 (21100)	22.06	21.04	20.05	18.34	
		2502.5 (20775)	21.78	20.77	19.76	18.33	
		2565 (21400)	22.83	22.18	21.07	18.12	
10MHz	1RB-High (49)	2535 (21100)	23.02	22.30	21.24	18.12	
		2505 (20800)	22.97	22.19	21.24	18.03	
		2565 (21400)	22.88	22.13	21.00	18.06	
	1RB-Middle (24)	2535 (21100)	23.10	22.26	21.31	18.24	
		2505 (20800)	22.80	22.17	21.01	18.07	
		2565 (21400)	22.83	22.05	20.97	18.03	
	1RB-Low (0)	2535 (21100)	23.14	22.48	21.30	18.08	
		2505 (20800)	22.78	21.90	20.79	18.09	
		2565 (21400)	21.82	20.80	19.80	18.26	
	25RB-High (25)	2535 (21100)	22.05	21.04	20.02	18.24	
		2505 (20800)	21.91	20.91	19.89	18.27	
		2565 (21400)	21.80	20.80	19.79	18.08	
	25RB-Middle (12)	2535 (21100)	22.05	21.07	20.04	18.13	
		2505 (20800)	21.82	20.81	19.81	18.00	
		2565 (21400)	21.85	20.82	19.82	18.07	
	25RB-Low (0)	2535 (21100)	22.08	21.08	20.09	18.13	
		2505 (20800)	21.74	20.73	19.75	18.24	
		2565 (21400)	21.82	20.82	19.79	18.03	
	50RB (0)	2535 (21100)	22.04	21.04	20.02	18.09	
		2505 (20800)	21.86	20.82	19.85	18.19	
		2562.5 (21375)	22.85	22.15	20.97	18.12	
	15MHz	1RB-High (74)	2535 (21100)	22.95	22.18	21.22	18.35
			2507.5 (20825)	23.04	22.31	21.19	18.09
			2562.5 (21375)	22.80	22.18	20.94	18.17
		1RB-Middle (37)	2535 (21100)	23.15	22.36	21.29	18.02
			2507.5 (20825)	22.91	22.17	21.06	18.35
			2562.5 (21375)	22.79	22.17	20.96	18.19
		1RB-Low (0)	2535 (21100)	23.08	22.25	21.24	18.05
			2507.5 (20825)	22.71	21.96	20.82	18.19
			2562.5 (21375)	21.81	20.79	19.79	18.05
		36RB-High (38)	2562.5 (21375)	21.81	20.79	19.79	18.05

	36RB-Middle (19)	2535 (21100)	22.04	20.98	20.01	18.35	
		2507.5 (20825)	21.98	20.95	19.99	18.29	
		2562.5 (21375)	21.83	20.83	19.81	18.25	
	36RB-Low (0)	2535 (21100)	22.09	21.05	20.06	18.18	
		2507.5 (20825)	21.94	20.90	19.94	18.06	
		2562.5 (21375)	21.81	20.79	19.83	18.02	
	75RB (0)	2535 (21100)	22.11	21.05	20.12	18.21	
		2507.5 (20825)	21.83	20.81	19.85	18.34	
		2562.5 (21375)	21.82	20.82	19.81	18.03	
	20MHz	1RB-High (99)	2560 (21350)	22.89	22.19	21.06	18.26
			2535 (21100)	22.96	22.15	21.06	18.15
			2510 (20850)	23.13	22.24	21.27	18.22
1RB-Middle (50)		2560 (21350)	22.81	22.10	21.01	18.23	
		2535 (21100)	23.12	22.56	21.26	18.00	
		2510 (20850)	23.01	22.32	21.13	18.22	
1RB-Low (0)		2560 (21350)	22.87	22.25	21.08	18.04	
		2535 (21100)	23.14	22.41	21.21	18.35	
		2510 (20850)	22.73	22.04	20.83	18.09	
50RB-High (50)		2560 (21350)	21.83	20.85	19.79	18.22	
		2535 (21100)	22.03	21.03	20.05	18.16	
		2510 (20850)	22.06	21.05	20.03	18.30	
50RB-Middle (25)		2560 (21350)	21.87	20.85	19.85	18.21	
		2535 (21100)	22.10	21.11	20.11	18.13	
		2510 (20850)	22.00	20.96	19.98	18.03	
50RB-Low (0)		2560 (21350)	21.91	20.89	19.87	18.01	
		2535 (21100)	22.14	21.14	20.14	18.24	
		2510 (20850)	21.91	20.91	19.89	18.33	
100RB (0)		2560 (21350)	21.87	20.86	19.84	18.11	
		2535 (21100)	22.08	21.09	20.10	18.30	
		2510 (20850)	21.98	20.97	19.97	18.23	

LTE B7 (Power Level B1)

BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM	256QAM
5MHz	1RB-High (24)	2567.5 (21425)	14.51	13.92	14.22	14.20
		2535 (21100)	14.54	13.87	14.26	14.24
		2502.5 (20775)	14.47	13.83	14.18	14.16
	1RB-Middle (12)	2567.5 (21425)	14.54	13.88	14.25	14.23
		2535 (21100)	14.46	13.91	14.18	14.16
		2502.5 (20775)	14.53	13.97	14.18	14.16

	1RB-Low (0)	2567.5 (21425)	14.53	13.86	14.25	14.23	
		2535 (21100)	14.50	13.91	14.19	14.17	
		2502.5 (20775)	14.58	13.89	14.21	14.19	
	12RB-High (13)	2567.5 (21425)	14.01	14.04	14.06	14.04	
		2535 (21100)	14.01	14.03	14.02	14.00	
		2502.5 (20775)	13.94	14.00	13.97	13.95	
	12RB-Middle (6)	2567.5 (21425)	14.00	14.04	14.02	14.00	
		2535 (21100)	13.94	14.04	13.96	13.94	
		2502.5 (20775)	13.93	13.98	13.96	13.94	
	12RB-Low (0)	2567.5 (21425)	13.98	14.03	14.04	14.02	
		2535 (21100)	14.01	14.04	14.02	14.00	
		2502.5 (20775)	13.96	14.04	14.02	14.00	
25RB (0)	2567.5 (21425)	14.00	14.07	14.02	14.00		
	2535 (21100)	13.99	14.05	13.98	13.96		
	2502.5 (20775)	14.01	14.03	13.98	13.96		
10MHz	1RB-High (49)	2565 (21400)	14.53	13.97	14.27	14.25	
		2535 (21100)	14.51	13.91	14.27	14.25	
		2505 (20800)	14.55	13.92	14.19	14.17	
	1RB-Middle (24)	2565 (21400)	14.47	13.84	14.18	14.16	
		2535 (21100)	14.46	13.86	14.16	14.14	
		2505 (20800)	14.53	13.87	14.20	14.18	
	1RB-Low (0)	2565 (21400)	14.55	13.88	14.22	14.20	
		2535 (21100)	14.50	13.98	14.28	14.26	
		2505 (20800)	14.61	13.92	14.32	14.30	
	25RB-High (25)	2565 (21400)	13.69	13.30	13.44	13.41	
		2535 (21100)	13.96	14.04	13.99	13.97	
		2505 (20800)	13.96	14.03	13.98	13.96	
	25RB-Middle (12)	2565 (21400)	13.94	14.03	13.96	13.94	
		2535 (21100)	13.96	14.04	13.99	13.97	
		2505 (20800)	13.93	14.03	13.96	13.94	
	25RB-Low (0)	2565 (21400)	13.99	14.06	14.02	14.00	
		2535 (21100)	14.00	14.06	14.01	13.99	
		2505 (20800)	14.00	14.05	13.99	13.97	
	50RB (0)	2565 (21400)	13.98	14.04	14.02	14.00	
		2535 (21100)	14.00	14.05	13.99	13.97	
		2505 (20800)	13.96	14.03	13.97	13.95	
	15MHz	1RB-High (74)	2562.5 (21375)	14.55	13.92	14.27	14.25
			2535 (21100)	14.54	13.92	14.25	14.23
			2507.5 (20825)	14.50	13.87	14.22	14.20
1RB-Middle (37)		2562.5 (21375)	14.51	13.86	14.22	14.20	
		2535 (21100)	14.50	13.98	14.25	14.23	
		2507.5 (20825)	14.50	13.86	14.25	14.23	

	1RB-Low (0)	2562.5 (21375)	14.52	13.94	14.26	14.24	
		2535 (21100)	14.55	13.96	14.28	14.26	
		2507.5 (20825)	14.52	13.89	14.28	14.26	
	36RB-High (38)	2562.5 (21375)	13.96	14.03	14.02	14.00	
		2535 (21100)	13.96	14.04	14.03	14.01	
		2507.5 (20825)	13.96	14.04	14.02	14.00	
	36RB-Middle (19)	2562.5 (21375)	13.94	14.03	13.99	13.97	
		2535 (21100)	13.95	14.04	14.02	14.00	
		2507.5 (20825)	13.94	14.02	13.98	13.96	
	36RB-Low (0)	2562.5 (21375)	13.99	14.07	14.03	14.01	
		2535 (21100)	14.00	14.06	14.05	14.03	
		2507.5 (20825)	14.00	14.06	14.03	14.01	
	75RB (0)	2562.5 (21375)	13.99	14.05	14.01	13.99	
		2535 (21100)	14.02	14.05	13.99	13.97	
		2507.5 (20825)	13.99	14.04	13.99	13.97	
	20MHz	1RB-High (99)	2560 (21350)	14.61	13.92	14.29	14.27
			2535 (21100)	14.59	13.95	14.28	14.26
			2510 (20850)	14.53	13.89	14.27	14.25
		1RB-Middle (50)	2560 (21350)	14.52	13.86	14.19	14.17
			2535 (21100)	14.48	13.96	14.20	14.18
			2510 (20850)	14.49	13.85	14.21	14.19
		1RB-Low (0)	2560 (21350)	14.62	13.92	14.32	14.30
			2535 (21100)	14.54	13.98	14.27	14.25
			2510 (20850)	14.52	13.89	14.28	14.26
50RB-High (50)		2560 (21350)	13.96	14.02	13.98	13.96	
		2535 (21100)	14.00	14.07	14.05	14.03	
		2510 (20850)	14.00	14.06	14.02	14.00	
50RB-Middle (25)		2560 (21350)	14.02	14.04	14.04	14.02	
		2535 (21100)	14.00	14.05	14.05	14.03	
		2510 (20850)	13.98	14.04	13.99	13.97	
50RB-Low (0)		2560 (21350)	14.01	14.08	14.05	14.03	
		2535 (21100)	14.03	14.09	14.06	14.04	
		2510 (20850)	13.98	14.03	14.01	13.99	
100RB (0)		2560 (21350)	14.00	14.06	14.03	14.01	
		2535 (21100)	14.02	14.07	14.06	14.04	
		2510 (20850)	13.99	14.04	13.99	13.97	

LTE B7 (Power Level C1)

BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM	256QAM
5MHz	1RB-High (24)	2567.5 (21425)	11.79	11.63	11.72	11.53
		2535 (21100)	11.46	11.54	11.39	11.55

		2502.5 (20775)	11.56	11.74	11.67	11.39
	1RB-Middle (12)	2567.5 (21425)	11.74	11.53	11.66	11.77
		2535 (21100)	11.53	11.67	11.71	11.58
		2502.5 (20775)	11.41	11.74	11.42	11.77
	1RB-Low (0)	2567.5 (21425)	11.72	11.39	11.76	11.39
		2535 (21100)	11.41	11.77	11.72	11.44
		2502.5 (20775)	11.77	11.68	11.78	11.53
	12RB-High (13)	2567.5 (21425)	11.05	11.07	11.16	11.16
		2535 (21100)	11.22	11.20	11.22	11.10
		2502.5 (20775)	11.07	11.25	11.08	11.16
	12RB-Middle (6)	2567.5 (21425)	11.20	11.14	11.12	11.07
		2535 (21100)	11.18	11.17	11.14	11.21
		2502.5 (20775)	11.23	11.14	11.23	11.12
	12RB-Low (0)	2567.5 (21425)	11.24	11.19	11.10	11.19
		2535 (21100)	11.25	11.13	11.21	11.20
		2502.5 (20775)	11.23	11.08	11.24	11.22
	25RB (0)	2567.5 (21425)	11.06	11.12	11.18	11.13
		2535 (21100)	11.15	11.23	11.18	11.05
		2502.5 (20775)	11.14	11.11	11.13	11.06
10MHz	1RB-High (49)	2565 (21400)	11.50	11.49	11.39	11.42
		2535 (21100)	11.55	11.68	11.74	11.66
		2505 (20800)	11.44	11.53	11.49	11.53
	1RB-Middle (24)	2565 (21400)	11.67	11.42	11.58	11.78
		2535 (21100)	11.40	11.71	11.56	11.53
		2505 (20800)	11.53	11.45	11.74	11.78
	1RB-Low (0)	2565 (21400)	11.79	11.62	11.47	11.72
		2535 (21100)	11.73	11.59	11.66	11.39
		2505 (20800)	11.47	11.77	11.69	11.56
	25RB-High (25)	2565 (21400)	11.10	11.22	11.14	11.10
		2535 (21100)	11.20	11.20	11.07	11.06
		2505 (20800)	11.10	11.08	11.11	11.23
	25RB-Middle (12)	2565 (21400)	11.09	11.18	11.07	11.18
		2535 (21100)	11.09	11.09	11.07	11.16
		2505 (20800)	11.05	11.22	11.14	11.05
	25RB-Low (0)	2565 (21400)	11.17	11.21	11.19	11.05
		2535 (21100)	11.24	11.10	11.05	11.17
		2505 (20800)	11.18	11.15	11.14	11.19
50RB (0)	2565 (21400)	11.16	11.24	11.10	11.23	
	2535 (21100)	11.17	11.24	11.18	11.09	
	2505 (20800)	11.17	11.06	11.06	11.14	
15MHz	1RB-High (74)	2562.5 (21375)	11.45	11.70	11.60	11.46
		2535 (21100)	11.40	11.54	11.69	11.46

		2507.5 (20825)	11.53	11.60	11.40	11.45
	1RB-Middle (37)	2562.5 (21375)	11.50	11.66	11.53	11.71
		2535 (21100)	11.56	11.56	11.51	11.52
		2507.5 (20825)	11.39	11.52	11.78	11.78
	1RB-Low (0)	2562.5 (21375)	11.42	11.57	11.54	11.68
		2535 (21100)	11.70	11.57	11.64	11.47
		2507.5 (20825)	11.51	11.66	11.49	11.62
	36RB-High (38)	2562.5 (21375)	11.05	11.18	11.19	11.09
		2535 (21100)	11.14	11.17	11.18	11.12
		2507.5 (20825)	11.19	11.09	11.25	11.07
	36RB-Middle (19)	2562.5 (21375)	11.24	11.24	11.11	11.25
		2535 (21100)	11.08	11.09	11.07	11.05
		2507.5 (20825)	11.05	11.12	11.22	11.12
	36RB-Low (0)	2562.5 (21375)	11.24	11.08	11.20	11.05
		2535 (21100)	11.10	11.11	11.08	11.22
		2507.5 (20825)	11.11	11.15	11.13	11.06
	75RB (0)	2562.5 (21375)	11.23	11.13	11.19	11.20
		2535 (21100)	11.25	11.20	11.05	11.20
		2507.5 (20825)	11.23	11.07	11.19	11.19
20MHz	1RB-High (99)	2560 (21350)	11.70	11.50	11.47	11.64
		2535 (21100)	11.60	11.59	11.78	11.73
		2510 (20850)	11.69	11.77	11.63	11.64
	1RB-Middle (50)	2560 (21350)	11.48	11.73	11.57	11.68
		2535 (21100)	11.77	11.56	11.79	11.58
		2510 (20850)	11.51	11.66	11.61	11.66
	1RB-Low (0)	2560 (21350)	11.44	11.74	11.64	11.54
		2535 (21100)	11.71	11.60	11.76	11.69
		2510 (20850)	11.53	11.49	11.79	11.58
	50RB-High (50)	2560 (21350)	11.09	11.21	11.18	11.08
		2535 (21100)	11.22	11.13	11.20	11.22
		2510 (20850)	11.13	11.19	11.19	11.17
	50RB-Middle (25)	2560 (21350)	11.11	11.10	11.18	11.16
		2535 (21100)	11.20	11.17	11.17	11.16
		2510 (20850)	11.23	11.13	11.05	11.08
	50RB-Low (0)	2560 (21350)	11.14	11.14	11.09	11.08
		2535 (21100)	11.27	11.24	11.18	11.22
		2510 (20850)	11.06	11.25	11.19	11.08
	100RB (0)	2560 (21350)	11.20	11.16	11.20	11.16
		2535 (21100)	11.22	11.20	11.14	11.21
		2510 (20850)	11.11	11.07	11.06	11.17

LTE B12 (Power Level A1)

BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM	256QAM
1.4MHz	1RB-High (5)	715.3	23.14	22.40	21.15	18.14
		707.5	23.11	22.47	21.31	18.16
		699.7	23.14	22.49	21.34	18.34
	1RB-Middle (3)	715.3	22.95	22.22	21.09	18.25
		707.5	23.24	22.35	21.27	18.24
		699.7	23.16	22.30	21.28	18.37
	1RB-Low (0)	715.3	23.11	22.20	21.10	18.29
		707.5	23.14	22.37	21.28	18.21
		699.7	23.16	22.32	21.35	18.20
	3RB-High (3)	715.3	23.00	22.00	21.02	18.33
		707.5	23.13	22.20	21.16	18.22
		699.7	23.17	22.07	21.23	18.25
	3RB-Middle (1)	715.3	22.97	22.05	21.02	18.30
		707.5	23.15	22.16	21.22	18.14
		699.7	23.17	22.23	21.24	18.30
	3RB-Low (0)	715.3	23.01	21.90	21.01	18.33
		707.5	23.15	22.12	21.20	18.21
		699.7	23.15	22.16	21.20	18.15
	6RB (0)	715.3	21.96	21.10	20.01	18.30
		707.5	22.11	21.24	20.14	18.37
		699.7	22.17	21.21	20.12	18.25
3MHz	1RB-High (14)	714.5	22.90	22.21	21.19	18.33
		707.5	23.05	22.28	21.30	18.33
		700.5	23.14	22.32	21.39	18.35
	1RB-Middle (7)	714.5	22.92	22.13	21.06	18.33
		707.5	23.15	22.32	21.30	18.27
		700.5	23.22	22.49	21.39	18.36
	1RB-Low (0)	714.5	22.98	22.27	21.24	18.27
		707.5	23.25	22.44	21.26	18.32
		700.5	23.05	22.38	21.26	18.37
	8RB-High (7)	714.5	21.91	21.01	19.99	18.26
		707.5	22.11	21.20	20.18	18.14
		700.5	22.14	21.21	20.25	18.26
	8RB-Middle (4)	714.5	21.91	20.99	19.98	18.18
		707.5	22.12	21.20	20.20	18.12
		700.5	22.13	21.28	20.17	18.16
	8RB-Low (0)	714.5	21.98	21.10	20.09	18.21
		707.5	22.09	21.21	20.18	18.37
		700.5	22.15	21.16	20.21	18.24

	15RB (0)	714.5	21.95	21.03	20.00	18.22	
		707.5	22.09	21.14	20.14	18.36	
		700.5	22.17	21.25	20.20	18.37	
5MHz	1RB-High (24)	713.5	22.99	22.37	21.18	18.22	
		707.5	23.09	22.23	21.28	18.34	
		701.5	23.19	22.52	21.38	18.16	
	1RB-Middle (12)	713.5	23.03	22.22	21.27	18.38	
		707.5	23.13	22.49	21.26	18.34	
		701.5	23.11	22.42	21.35	18.27	
	1RB-Low (0)	713.5	23.11	22.45	21.20	18.38	
		707.5	23.18	22.54	21.28	18.34	
		701.5	23.11	22.37	21.36	18.29	
	12RB-High (13)	713.5	21.98	20.99	20.01	18.31	
		707.5	22.07	21.10	20.15	18.18	
		701.5	22.21	21.19	20.22	18.12	
	12RB-Middle (6)	713.5	22.03	21.02	20.05	18.18	
		707.5	22.11	21.14	20.17	18.13	
		701.5	22.17	21.20	20.23	18.14	
	12RB-Low (0)	713.5	22.11	21.10	20.13	18.17	
		707.5	22.13	21.15	20.17	18.23	
		701.5	22.22	21.24	20.25	18.21	
	25RB (0)	713.5	22.03	21.02	20.01	18.27	
		707.5	22.15	21.11	20.14	18.14	
		701.5	22.23	21.21	20.20	18.31	
	10MHz	1RB-High (49)	711	22.98	22.21	21.08	18.21
			707.5	23.05	22.40	21.18	18.28
			704	23.14	22.38	21.24	18.26
		1RB-Middle (24)	711	23.06	22.37	21.14	18.37
			707.5	23.16	22.46	21.21	18.28
			704	23.21	22.44	21.28	18.16
1RB-Low (0)		711	23.19	22.50	21.42	18.37	
		707.5	23.27	22.57	21.44	18.33	
		704	23.19	22.51	21.27	18.23	
25RB-High (25)		711	21.98	20.99	19.96	18.33	
		707.5	22.10	21.09	20.09	18.28	
		704	22.17	21.17	20.12	18.29	
25RB-Middle (12)		711	22.05	21.05	20.04	18.26	
		707.5	22.13	21.08	20.14	18.23	
		704	22.18	21.15	20.16	18.30	
25RB-Low (0)		711	22.10	21.10	20.07	18.36	
		707.5	22.26	21.14	20.14	18.19	
		704	22.02	21.18	20.19	18.29	

	50RB (0)	711	22.06	21.07	20.05	18.13
		707.5	22.12	21.10	20.14	18.16
		704	22.16	21.16	20.16	18.18

LTE B12 (Power Level B1)

BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM	256QAM	
1.4MHz	1RB-High (5)	715.3	19.38	18.58	18.92	17.99	
		707.5	19.42	18.52	18.96	18.03	
		699.7	19.32	18.46	18.86	17.93	
	1RB-Middle (3)	715.3	19.42	18.53	18.95	18.02	
		707.5	19.31	18.56	18.86	17.93	
		699.7	19.41	18.65	18.86	17.93	
	1RB-Low (0)	715.3	19.41	18.50	18.95	18.02	
		707.5	19.37	18.56	18.87	17.95	
		699.7	19.47	18.55	18.90	17.97	
	3RB-High (3)	715.3	18.71	18.74	18.70	17.78	
		707.5	18.71	18.72	18.64	17.72	
		699.7	18.62	18.69	18.58	17.67	
	3RB-Middle (1)	715.3	18.70	18.74	18.64	17.72	
		707.5	18.62	18.74	18.57	17.65	
		699.7	18.61	18.66	18.57	17.65	
	3RB-Low (0)	715.3	18.67	18.72	18.67	17.75	
		707.5	18.71	18.74	18.64	17.72	
		699.7	18.65	18.74	18.64	17.72	
	6RB (0)	715.3	18.70	18.78	18.64	17.72	
		707.5	18.68	18.75	18.60	17.68	
		699.7	18.71	18.72	18.60	17.68	
	3MHz	1RB-High (14)	714.5	19.41	18.65	18.98	18.04
			707.5	19.38	18.56	18.98	18.04
			700.5	19.44	18.58	18.87	17.95
		1RB-Middle (7)	714.5	19.32	18.47	18.86	17.93
			707.5	19.31	18.50	18.83	17.91
			700.5	19.41	18.52	18.89	17.96
1RB-Low (0)		714.5	19.44	18.53	18.92	17.99	
		707.5	19.37	18.66	18.99	18.06	
		700.5	19.51	18.58	19.05	18.11	
8RB-High (7)		714.5	18.29	17.76	17.87	16.99	
		707.5	18.65	18.74	18.61	17.70	
		700.5	18.65	18.72	18.60	17.68	
8RB-Middle (4)		714.5	18.62	18.72	18.57	17.65	
		707.5	18.65	18.74	18.61	17.70	

		700.5	18.61	18.72	18.57	17.65
	8RB-Low (0)	714.5	18.68	18.77	18.64	17.72
		707.5	18.70	18.77	18.63	17.71
		700.5	18.70	18.75	18.61	17.70
	15RB (0)	714.5	18.67	18.74	18.64	17.72
		707.5	18.70	18.75	18.61	17.70
		700.5	18.65	18.72	18.58	17.67
5MHz	1RB-High (24)	713.5	19.44	18.58	18.98	18.04
		707.5	19.42	18.58	18.95	18.02
		701.5	19.37	18.52	18.92	17.99
	1RB-Middle (12)	713.5	19.38	18.50	18.92	17.99
		707.5	19.37	18.66	18.95	18.02
		701.5	19.37	18.50	18.95	18.02
	1RB-Low (0)	713.5	19.40	18.60	18.96	18.03
		707.5	19.44	18.63	18.99	18.06
		701.5	19.40	18.55	18.99	18.06
	12RB-High (13)	713.5	18.65	18.72	18.64	17.72
		707.5	18.65	18.74	18.66	17.74
		701.5	18.65	18.74	18.64	17.72
	12RB-Middle (6)	713.5	18.62	18.72	18.61	17.70
		707.5	18.64	18.74	18.64	17.72
		701.5	18.62	18.71	18.60	17.68
	12RB-Low (0)	713.5	18.68	18.78	18.66	17.74
		707.5	18.70	18.77	18.69	17.77
		701.5	18.70	18.77	18.66	17.74
	25RB (0)	713.5	18.68	18.75	18.63	17.71
		707.5	18.73	18.75	18.61	17.70
		701.5	18.68	18.74	18.61	17.70
10MHz	1RB-High (49)	711	19.51	18.58	19.00	18.07
		707.5	19.48	18.62	18.99	18.06
		704	19.41	18.55	18.98	18.04
	1RB-Middle (24)	711	19.40	18.50	18.87	17.95
		707.5	19.34	18.63	18.89	17.96
		704	19.35	18.49	18.90	17.97
	1RB-Low (0)	711	19.53	18.58	19.05	18.11
		707.5	19.54	18.64	18.98	18.04
		704	19.40	18.55	18.99	18.06
	25RB-High (25)	711	18.65	18.71	18.60	17.68
		707.5	18.70	18.78	18.69	17.77
		704	18.70	18.77	18.64	17.72
	25RB-Middle (12)	711	18.73	18.74	18.67	17.75
		707.5	18.70	18.75	18.69	17.77

	25RB-Low (0)	704	18.67	18.74	18.61	17.70
		711	18.71	18.79	18.69	17.77
		707.5	18.74	18.81	18.70	17.78
		704	18.67	18.72	18.63	17.71
	50RB (0)	711	18.70	18.77	18.66	17.74
		707.5	18.73	18.78	18.70	17.78
		704	18.68	18.74	18.61	17.70

LTE B12 (Power Level C1)

BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM	256QAM
1.4MHz	1RB-High (5)	715.3	16.74	16.72	16.64	16.60
		707.5	16.71	16.58	16.62	16.66
		699.7	16.55	16.70	16.59	16.59
	1RB-Middle (3)	715.3	16.57	16.60	16.67	16.73
		707.5	16.75	16.57	16.66	16.72
		699.7	16.67	16.71	16.68	16.75
	1RB-Low (0)	715.3	16.66	16.74	16.74	16.55
		707.5	16.57	16.61	16.65	16.63
		699.7	16.72	16.68	16.57	16.70
	3RB-High (3)	715.3	16.56	16.63	16.62	16.74
		707.5	16.56	16.59	16.68	16.59
		699.7	16.70	16.60	16.72	16.59
	3RB-Middle (1)	715.3	16.56	16.60	16.72	16.69
		707.5	16.57	16.62	16.72	16.63
		699.7	16.65	16.75	16.64	16.64
	3RB-Low (0)	715.3	16.68	16.72	16.67	16.71
		707.5	16.74	16.61	16.57	16.65
		699.7	16.67	16.67	16.56	16.68
	6RB (0)	715.3	16.61	16.67	16.63	16.65
		707.5	16.59	16.66	16.55	16.66
		699.7	16.58	16.72	16.70	16.61
3MHz	1RB-High (14)	714.5	16.65	16.55	16.60	16.72
		707.5	16.63	16.65	16.72	16.62
		700.5	16.75	16.71	16.55	16.71
	1RB-Middle (7)	714.5	16.71	16.57	16.67	16.60
		707.5	16.61	16.70	16.62	16.56
		700.5	16.64	16.69	16.65	16.61
	1RB-Low (0)	714.5	16.64	16.61	16.60	16.62
		707.5	16.62	16.59	16.67	16.56
		700.5	16.56	16.57	16.67	16.70
	8RB-High (7)	714.5	16.61	16.73	16.66	16.60

	8RB-Middle (4)	707.5	16.61	16.72	16.58	16.75	
		700.5	16.56	16.70	16.56	16.67	
		714.5	16.58	16.74	16.66	16.62	
		707.5	16.57	16.61	16.70	16.66	
		700.5	16.75	16.62	16.58	16.72	
		714.5	16.56	16.60	16.62	16.70	
	8RB-Low (0)	707.5	16.57	16.63	16.60	16.60	
		700.5	16.70	16.59	16.66	16.60	
		714.5	16.73	16.58	16.62	16.61	
	15RB (0)	707.5	16.57	16.75	16.58	16.66	
		700.5	16.63	16.61	16.71	16.62	
		713.5	16.59	16.60	16.55	16.66	
5MHz	1RB-High (24)	707.5	16.71	16.65	16.72	16.71	
		701.5	16.65	16.55	16.74	16.67	
		713.5	16.69	16.66	16.61	16.68	
	1RB-Middle (12)	707.5	16.63	16.69	16.63	16.72	
		701.5	16.58	16.70	16.59	16.55	
		713.5	16.58	16.61	16.67	16.56	
	1RB-Low (0)	707.5	16.60	16.57	16.71	16.57	
		701.5	16.64	16.59	16.68	16.73	
		713.5	16.74	16.57	16.56	16.58	
	12RB-High (13)	707.5	16.75	16.66	16.57	16.72	
		701.5	16.59	16.72	16.57	16.66	
		713.5	16.70	16.59	16.65	16.75	
	12RB-Middle (6)	707.5	16.67	16.70	16.65	16.55	
		701.5	16.64	16.59	16.68	16.65	
		713.5	16.56	16.56	16.68	16.67	
	12RB-Low (0)	707.5	16.74	16.74	16.72	16.72	
		701.5	16.70	16.62	16.61	16.68	
		713.5	16.75	16.75	16.69	16.60	
	25RB (0)	707.5	16.70	16.61	16.61	16.65	
		701.5	16.63	16.67	16.71	16.60	
		711	16.56	16.55	16.64	16.67	
	10MHz	1RB-High (49)	707.5	16.55	16.72	16.57	16.55
			704	16.74	16.57	16.58	16.57
			711	16.71	16.60	16.59	16.75
1RB-Middle (24)		707.5	16.66	16.72	16.72	16.61	
		704	16.75	16.66	16.59	16.62	
		711	16.74	16.68	16.64	16.72	
1RB-Low (0)		707.5	16.76	16.71	16.62	16.55	
		704	16.63	16.59	16.57	16.70	
		711	16.71	16.65	16.72	16.74	
25RB-High (25)		711	16.71	16.65	16.72	16.74	

		707.5	16.62	16.68	16.74	16.64	
		704	16.74	16.72	16.71	16.74	
	25RB-Middle (12)	711	16.70	16.62	16.61	16.68	
		707.5	16.60	16.71	16.62	16.66	
	25RB-Low (0)	704	16.72	16.55	16.72	16.68	
		711	16.55	16.57	16.61	16.62	
		707.5	16.75	16.58	16.65	16.67	
	50RB (0)	704	16.60	16.63	16.63	16.61	
		711	16.57	16.65	16.56	16.58	
		707.5	16.63	16.61	16.56	16.66	
			704	16.59	16.62	16.67	16.58

LTE B13 (Power Level A1)

BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM	256QAM
5MHz	1RB-High (24)	784.5 (23255)	22.97	22.14	21.18	17.89
		782 (23230)	22.96	22.20	21.10	18.01
		779.5 (23205)	22.96	22.24	21.18	17.95
	1RB-Middle (12)	784.5 (23255)	23.00	22.28	21.14	18.06
		782 (23230)	23.01	22.22	21.11	17.91
		779.5 (23205)	22.99	22.20	21.15	17.96
	1RB-Low (0)	784.5 (23255)	23.04	22.28	21.23	17.98
		782 (23230)	23.03	22.30	21.29	17.99
		779.5 (23205)	23.08	22.36	21.15	17.98
	12RB-High (13)	784.5 (23255)	21.96	20.94	19.96	17.98
		782 (23230)	21.96	20.98	19.97	18.10
		779.5 (23205)	21.97	20.99	19.97	17.90
	12RB-Middle (6)	784.5 (23255)	21.98	20.97	19.98	18.10
		782 (23230)	21.98	20.95	19.98	18.01
		779.5 (23205)	22.01	20.98	19.97	17.99
	12RB-Low (0)	784.5 (23255)	22.02	20.98	19.98	18.07
		782 (23230)	22.02	21.03	20.00	18.01
		779.5 (23205)	21.83	20.89	19.91	17.97
	25RB (0)	784.5 (23255)	22.02	20.97	19.95	17.93
		782 (23230)	21.99	20.98	19.95	17.91
		779.5 (23205)	21.96	20.97	19.91	18.03
10MHz	1RB-High (49)	782 (23230)	23.00	22.17	21.19	17.95
	1RB-Middle (24)	782 (23230)	23.05	22.28	21.14	18.10
	1RB-Low (0)	782 (23230)	23.18	22.52	21.35	18.07
	25RB-High (25)	782 (23230)	22.03	21.02	20.00	17.93
	25RB-Middle (12)	782 (23230)	22.02	20.99	20.00	17.91
	25RB-Low (0)	782 (23230)	21.98	20.98	19.98	18.01

	50RB (0)	782 (23230)	22.05	21.02	19.99	18.00
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LTE B13 (Power Level B1)

BANDWIDTH	Number of RBs	Frequency	16QAM	QPSK	64QAM	256QAM
5MHz	1RB-High (24)	784.5 (23255)	19.60	18.61	19.08	18.09
		782 (23230)	19.58	18.61	19.05	18.07
		779.5 (23205)	19.52	18.56	19.02	18.04
	1RB-Middle (12)	784.5 (23255)	19.54	18.54	19.02	18.04
		782 (23230)	19.52	18.70	19.05	18.07
		779.5 (23205)	19.52	18.54	19.05	18.07
	1RB-Low (0)	784.5 (23255)	19.55	18.64	19.06	18.08
		782 (23230)	19.60	18.67	19.09	18.11
		779.5 (23205)	19.55	18.59	19.09	18.11
	12RB-High (13)	784.5 (23255)	18.80	18.76	18.74	17.77
		782 (23230)	18.80	18.78	18.76	17.79
		779.5 (23205)	18.80	18.78	18.74	17.77
	12RB-Middle (6)	784.5 (23255)	18.77	18.76	18.71	17.75
		782 (23230)	18.79	18.78	18.74	17.77
		779.5 (23205)	18.77	18.75	18.70	17.73
	12RB-Low (0)	784.5 (23255)	18.83	18.82	18.76	17.79
		782 (23230)	18.85	18.81	18.79	17.82
		779.5 (23205)	18.85	18.81	18.76	17.79
	25RB (0)	784.5 (23255)	18.83	18.79	18.73	17.76
		782 (23230)	18.88	18.79	18.71	17.75
		779.5 (23205)	18.83	18.78	18.71	17.75
10MHz	1RB-High (49)	782 (23230)	18.82	18.68	18.71	17.75
	1RB-Middle (24)	782 (23230)	18.86	18.63	18.79	17.82
	1RB-Low (0)	782 (23230)	18.97	18.73	18.96	18.21
	25RB-High (25)	782 (23230)	18.89	18.82	18.80	17.83
	25RB-Middle (12)	782 (23230)	18.85	18.81	18.76	17.79
	25RB-Low (0)	782 (23230)	18.88	18.76	18.80	17.83
	50RB (0)	782 (23230)	18.83	18.78	18.71	17.75

LTE B13 (Power Level C1)

BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM	256QAM
5MHz	1RB-High (24)	784.5 (23255)	16.68	16.58	16.59	16.69
		782 (23230)	16.69	16.60	16.58	16.68
		779.5 (23205)	16.68	16.59	16.59	16.69
	1RB-Middle (12)	784.5 (23255)	16.69	16.59	16.59	16.67
		782 (23230)	16.70	16.58	16.58	16.67

		779.5 (23205)	16.69	16.59	16.59	16.67
	1RB-Low (0)	784.5 (23255)	16.69	16.59	16.58	16.68
		782 (23230)	16.69	16.58	16.60	16.68
		779.5 (23205)	16.70	16.58	16.60	16.69
	12RB-High (13)	784.5 (23255)	16.68	16.57	16.59	16.69
		782 (23230)	16.68	16.59	16.59	16.69
		779.5 (23205)	16.68	16.59	16.59	16.69
	12RB-Middle (6)	784.5 (23255)	16.69	16.58	16.58	16.69
		782 (23230)	16.69	16.59	16.59	16.67
		779.5 (23205)	16.68	16.58	16.59	16.69
	12RB-Low (0)	784.5 (23255)	16.67	16.59	16.60	16.68
		782 (23230)	16.68	16.60	16.59	16.70
		779.5 (23205)	16.67	16.58	16.60	16.68
	25RB (0)	784.5 (23255)	16.68	16.57	16.58	16.69
		782 (23230)	16.69	16.59	16.60	16.69
		779.5 (23205)	16.69	16.59	16.58	16.68
10MHz	1RB-High (49)	782 (23230)	16.58	16.58	16.59	16.70
	1RB-Middle (24)	782 (23230)	16.60	16.58	16.58	16.68
	1RB-Low (0)	782 (23230)	16.68	16.59	16.57	16.67
	25RB-High (25)	782 (23230)	16.61	16.59	16.59	16.70
	25RB-Middle (12)	782 (23230)	16.58	16.59	16.58	16.69
	25RB-Low (0)	782 (23230)	16.57	16.59	16.57	16.67
	50RB (0)	782 (23230)	16.60	16.60	16.59	16.68

LTE B48 (Power Level A1)

BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM	256QAM
5MHz	1RB-High (24)	56715	22.67	21.84	20.62	17.73
		55990	22.88	22.12	20.80	17.74
		55265	22.79	22.12	20.81	17.76
	1RB-Middle (12)	56715	22.71	21.87	20.70	17.97
		55990	22.94	22.13	20.92	17.83
		55265	22.95	22.15	20.87	17.98
	1RB-Low (0)	56715	22.67	21.85	20.64	17.91
		55990	22.84	22.14	20.87	17.86
		55265	22.79	22.03	20.82	17.78
	12RB-High (13)	56715	21.68	20.68	19.76	17.93
		55990	21.88	20.89	19.99	17.95
		55265	21.89	20.91	19.98	17.95
	12RB-Middle (6)	56715	21.65	20.65	19.76	17.82
		55990	21.87	20.87	20.00	17.93
		55265	21.85	20.85	19.96	17.97

	12RB-Low (0)	56715	21.68	20.67	19.77	17.87	
		55990	21.89	20.91	20.00	17.88	
		55265	21.87	20.89	19.97	17.85	
	25RB (0)	56715	21.68	20.71	19.77	17.91	
		55990	21.89	20.92	19.98	17.82	
		55265	21.87	20.90	19.97	17.96	
10MHz	1RB-High (49)	56690	22.65	21.89	20.69	17.77	
		55990	22.97	22.24	20.93	17.98	
		55290	22.83	22.93	20.86	17.73	
	1RB-Middle (24)	56690	22.59	21.88	20.61	17.78	
		55990	22.84	22.13	20.87	17.93	
		55290	22.90	22.79	20.83	17.73	
	1RB-Low (0)	56690	22.66	21.99	20.68	17.91	
		55990	22.86	22.17	20.89	17.78	
		55290	22.93	22.85	20.90	17.92	
	25RB-High (25)	56690	21.64	20.64	19.78	17.77	
		55990	21.86	20.90	19.98	17.99	
		55290	21.84	20.90	19.96	17.96	
	25RB-Middle (12)	56690	21.59	20.66	19.74	17.77	
		55990	21.82	20.84	19.97	17.72	
		55290	21.84	20.89	19.96	17.75	
	25RB-Low (0)	56690	21.64	20.69	19.74	17.99	
		55990	21.84	20.84	19.98	17.79	
		55290	21.84	20.93	19.96	17.87	
	50RB (0)	56690	21.64	20.69	19.72	17.71	
		55990	21.87	20.92	19.93	17.92	
		55290	21.87	20.92	19.92	17.89	
	15MHz	1RB-High (74)	56665	22.68	21.97	20.68	17.99
			55990	22.89	22.15	20.89	17.72
			55315	22.93	22.21	20.88	17.84
1RB-Middle (37)		56665	22.67	21.94	20.66	17.80	
		55990	22.92	22.17	20.88	17.76	
		55315	22.92	22.08	20.86	17.99	
1RB-Low (0)		56665	22.73	21.93	20.69	17.86	
		55990	22.90	22.18	20.87	17.78	
		55315	22.93	22.08	20.85	17.78	
36RB-High (38)		56665	21.68	20.64	19.68	17.81	
		55990	21.88	20.85	19.88	17.73	
		55315	21.92	20.88	19.95	17.74	
36RB-Middle (19)		56665	21.67	20.65	19.71	17.97	
		55990	21.86	20.82	19.90	17.88	
		55315	21.90	20.83	19.86	17.81	

	36RB-Low (0)	56665	21.70	20.67	19.70	17.97
		55990	21.88	20.86	19.91	17.92
		55315	21.91	20.86	19.86	17.81
	75RB (0)	56665	21.71	20.73	19.73	17.77
		55990	21.92	20.94	19.95	17.80
		55315	21.90	20.92	19.95	17.83
20MHz	1RB-High (99)	56640	22.68	22.69	20.70	17.89
		55990	22.94	22.95	20.88	17.87
		55340	22.97	22.90	20.92	17.94
	1RB-Middle (50)	56640	22.69	22.72	20.71	17.94
		55990	22.89	22.89	20.86	17.84
		55340	22.94	22.93	20.84	17.73
	1RB-Low (0)	56640	22.73	22.73	20.74	17.79
		55990	22.94	22.95	20.87	17.96
		55340	22.89	22.92	20.85	17.77
	50RB-High (50)	56640	21.70	20.74	19.76	17.72
		55990	21.90	20.93	19.95	17.76
		55340	21.93	20.98	19.96	17.93
	50RB-Middle (25)	56640	21.72	20.75	19.76	17.72
		55990	21.91	20.96	19.97	17.74
		55340	21.94	20.98	19.96	17.84
	50RB-Low (0)	56640	21.71	20.74	19.76	17.97
		55990	21.91	20.94	19.97	17.87
		55340	21.92	20.96	19.94	17.83
	100RB (0)	56640	21.70	20.77	19.76	17.74
		55990	21.90	20.96	19.96	17.91
		55340	21.90	20.99	19.97	17.76

LTE B48 (Power Level B1)

BANDWIDTH	Number of RBs	Frequency	16QAM	QPSK	64QAM	256QAM
5MHz	1RB-High (24)	56715	12.19	11.67	11.95	11.89
		55990	12.22	11.63	11.97	11.92
		55265	12.16	11.60	11.91	11.85
	1RB-Middle (12)	56715	12.22	11.64	11.97	11.91
		55990	12.15	11.66	11.91	11.85
		55265	12.21	11.72	11.91	11.85
	1RB-Low (0)	56715	12.21	11.63	11.97	11.91
		55990	12.18	11.66	11.92	11.86
		55265	12.25	11.65	11.94	11.88
	12RB-High (13)	56715	11.77	11.77	11.81	11.75
		55990	11.77	11.76	11.77	11.71

		55265	11.72	11.74	11.74	11.68
	12RB-Middle (6)	56715	11.76	11.77	11.77	11.71
		55990	11.72	11.77	11.73	11.67
		55265	11.71	11.73	11.73	11.67
	12RB-Low (0)	56715	11.74	11.76	11.79	11.73
		55990	11.77	11.77	11.77	11.71
		55265	11.73	11.77	11.77	11.71
	25RB (0)	56715	11.76	11.80	11.77	11.71
		55990	11.75	11.78	11.75	11.69
		55265	11.77	11.76	11.75	11.69
10MHz	1RB-High (49)	56690	12.21	11.72	11.98	11.92
		55990	12.19	11.66	11.98	11.92
		55290	12.23	11.67	11.92	11.86
	1RB-Middle (24)	56690	12.16	11.61	11.91	11.85
		55990	12.15	11.63	11.89	11.83
		55290	12.21	11.63	11.93	11.87
	1RB-Low (0)	56690	12.23	11.64	11.95	11.89
		55990	12.18	11.73	11.99	11.93
		55290	12.28	11.67	12.03	11.97
	25RB-High (25)	56690	11.51	11.16	11.29	11.23
		55990	11.73	11.77	11.76	11.69
		55290	11.73	11.76	11.75	11.69
	25RB-Middle (12)	56690	11.72	11.76	11.73	11.67
		55990	11.73	11.77	11.76	11.69
		55290	11.71	11.76	11.73	11.67
	25RB-Low (0)	56690	11.75	11.79	11.77	11.71
		55990	11.76	11.79	11.76	11.70
		55290	11.76	11.78	11.76	11.69
	50RB (0)	56690	11.74	11.77	11.77	11.71
		55990	11.76	11.78	11.76	11.69
		55290	11.73	11.76	11.74	11.68
15MHz	1RB-High (74)	56665	12.23	11.67	11.98	11.92
		55990	12.22	11.67	11.97	11.91
		55315	12.18	11.63	11.95	11.89
	1RB-Middle (37)	56665	12.19	11.63	11.95	11.89
		55990	12.18	11.73	11.97	11.91
		55315	12.18	11.63	11.97	11.91
	1RB-Low (0)	56665	12.20	11.69	11.97	11.92
		55990	12.23	11.71	11.99	11.93
		55315	12.20	11.65	11.99	11.93
	36RB-High (38)	56665	11.73	11.76	11.77	11.71
55990		11.73	11.77	11.78	11.72	

	36RB-Middle (19)	55315	11.73	11.77	11.77	11.71	
		56665	11.72	11.76	11.76	11.69	
		55990	11.73	11.77	11.77	11.71	
		55315	11.72	11.75	11.75	11.69	
	36RB-Low (0)	56665	11.75	11.80	11.78	11.72	
		55990	11.76	11.79	11.80	11.74	
		55315	11.76	11.79	11.78	11.72	
	75RB (0)	56665	11.75	11.78	11.76	11.70	
		55990	11.78	11.78	11.76	11.69	
		55315	11.75	11.77	11.76	11.69	
	20MHz	1RB-High (99)	56640	12.28	11.67	12.00	11.94
			55990	12.26	11.70	11.99	11.93
55340			12.30	11.72	11.39	11.49	
1RB-Middle (50)		56640	12.20	11.63	11.92	11.86	
		55990	12.17	11.71	11.93	11.87	
		55340	12.18	11.62	11.94	11.88	
1RB-Low (0)		56640	12.29	11.67	12.03	11.97	
		55990	12.22	11.67	11.98	11.92	
		55340	12.20	11.65	11.99	11.93	
50RB-High (50)		56640	11.73	11.75	11.75	11.69	
		55990	11.76	11.80	11.80	11.74	
		55340	11.76	11.79	11.77	11.71	
50RB-Middle (25)		56640	11.78	11.77	11.79	11.73	
		55990	11.76	11.78	11.80	11.74	
		55340	11.74	11.82	11.76	11.69	
50RB-Low (0)		56640	11.77	11.81	11.80	11.74	
		55990	11.78	11.80	11.81	11.75	
		55340	11.79	11.76	11.76	11.70	
100RB (0)		56640	11.76	11.79	11.78	11.72	
		55990	11.78	11.80	11.81	11.75	
		55340	11.75	11.77	11.76	11.69	

LTE B48 (Power Level C1)

BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM	256QAM
5MHz	1RB-High (24)	56715	9.78	9.75	9.70	9.27
		55990	9.66	9.71	9.67	9.26
		55265	9.75	9.71	9.80	9.31
	1RB-Middle (12)	56715	9.78	9.72	9.79	9.38
		55990	9.75	9.72	9.78	9.28
		55265	9.79	9.73	9.81	9.38
	1RB-Low (0)	56715	9.80	9.80	9.78	9.25

		55990	9.72	9.70	9.67	9.35	
		55265	9.79	9.79	9.65	9.28	
		56715	9.76	9.66	9.73	9.05	
	12RB-High (13)	55990	9.69	9.84	9.82	9.12	
		55265	9.76	9.68	9.74	9.14	
		56715	9.79	9.69	9.75	9.22	
	12RB-Middle (6)	55990	9.78	9.72	9.73	9.13	
		55265	9.65	9.77	9.72	9.21	
		56715	9.81	9.72	9.71	9.06	
	12RB-Low (0)	55990	9.65	9.66	9.73	9.07	
		55265	9.77	9.70	9.84	9.17	
		56715	9.65	9.85	9.80	9.10	
	25RB (0)	55990	9.84	9.83	9.76	9.14	
		55265	9.70	9.71	9.72	9.19	
		56690	9.74	9.73	9.72	9.29	
10MHz	1RB-High (49)	55990	9.81	9.80	9.83	9.35	
		55290	9.72	9.65	9.72	9.27	
		56690	9.82	9.71	9.68	9.25	
	1RB-Middle (24)	55990	9.81	9.70	9.78	9.25	
		55290	9.72	9.77	9.71	9.37	
		56690	9.72	9.76	9.68	9.36	
	1RB-Low (0)	55990	9.84	9.66	9.77	9.31	
		55290	9.84	9.71	9.68	9.32	
		56690	9.82	9.65	9.84	9.10	
	25RB-High (25)	55990	9.84	9.83	9.75	9.19	
		55290	9.76	9.82	9.82	9.22	
		56690	9.77	9.69	9.80	9.11	
	25RB-Middle (12)	55990	9.67	9.72	9.82	9.20	
		55290	9.68	9.78	9.65	9.12	
		56690	9.79	9.75	9.68	9.18	
	25RB-Low (0)	55990	9.81	9.68	9.81	9.08	
		55290	9.75	9.67	9.69	9.25	
		56690	9.68	9.82	9.68	9.19	
	50RB (0)	55990	9.69	9.76	9.73	9.14	
		55290	9.78	9.75	9.76	9.17	
		56665	9.76	9.78	9.66	9.26	
	15MHz	1RB-High (74)	55990	9.80	9.75	9.77	9.29
			55315	9.68	9.80	9.77	9.31
			56665	9.66	9.74	9.71	9.39
		1RB-Middle (37)	55990	9.67	9.75	9.80	9.34
			55315	9.78	9.73	9.73	9.36
			56665	9.81	9.71	9.69	9.39
1RB-Low (0)		56665	9.81	9.71	9.69	9.39	

	36RB-High (38)	55990	9.83	9.74	9.65	9.28	
		55315	9.68	9.75	9.68	9.34	
		56665	9.72	9.80	9.71	9.10	
	36RB-Middle (19)	55990	9.75	9.84	9.77	9.16	
		55315	9.65	9.74	9.85	9.24	
		56665	9.80	9.82	9.79	9.25	
	36RB-Low (0)	55990	9.80	9.65	9.78	9.12	
		55315	9.79	9.65	9.67	9.07	
		56665	9.83	9.74	9.76	9.13	
	75RB (0)	55990	9.68	9.73	9.81	9.19	
		55315	9.68	9.81	9.76	9.17	
		56665	9.84	9.75	9.82	9.07	
	20MHz	1RB-High (99)	55990	9.78	9.84	9.65	9.32
			55340	9.84	9.75	9.73	9.33
			56640	9.71	9.67	9.68	9.31
1RB-Middle (50)		55990	9.75	9.71	9.82	9.39	
		55340	9.71	9.80	9.81	9.36	
		56640	9.80	9.84	9.76	9.36	
1RB-Low (0)		55990	9.78	9.69	9.82	9.26	
		55340	9.70	9.77	9.69	9.38	
		56640	9.66	9.83	9.75	9.31	
50RB-High (50)		55990	9.83	9.83	9.83	9.19	
		55340	9.87	9.81	9.78	9.21	
		56640	9.83	9.73	9.71	9.20	
50RB-Middle (25)		55990	9.83	9.73	9.71	9.20	
		55340	9.87	9.81	9.78	9.21	
		56640	9.83	9.83	9.83	9.19	
50RB-Low (0)		55990	9.83	9.73	9.71	9.20	
		55340	9.87	9.81	9.78	9.21	
		56640	9.83	9.73	9.71	9.20	
100RB (0)		55990	9.76	9.76	9.69	9.10	
		55340	9.68	9.70	9.77	9.05	
		56640	9.81	9.72	9.73	9.08	

LTE B66 (Power Level A1)

BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM	256QAM
1.4MHz	1RB-High (5)	1779.3 (132665)	22.61	21.76	20.82	17.76
		1745 (132322)	22.65	21.87	20.84	17.76
		1710.7 (131979)	22.74	21.87	20.88	17.85

	1RB-Middle (3)	1779.3 (132665)	22.56	21.82	20.66	17.96	
		1745 (132322)	22.76	21.88	20.78	17.91	
		1710.7 (131979)	22.67	22.08	20.90	17.73	
	1RB-Low (0)	1779.3 (132665)	22.58	21.76	20.84	17.92	
		1745 (132322)	22.74	22.03	20.86	17.78	
		1710.7 (131979)	22.67	22.07	20.88	17.85	
	3RB-High (3)	1779.3 (132665)	22.62	21.50	20.62	17.94	
		1745 (132322)	22.65	21.68	20.71	17.89	
		1710.7 (131979)	22.79	21.74	20.80	17.91	
	3RB-Middle (1)	1779.3 (132665)	22.58	21.60	20.65	17.74	
		1745 (132322)	22.65	21.60	20.76	17.79	
		1710.7 (131979)	22.75	21.74	20.81	17.90	
	3RB-Low (0)	1779.3 (132665)	22.58	21.62	20.72	17.79	
		1745 (132322)	22.70	21.54	20.72	17.71	
		1710.7 (131979)	22.73	21.66	20.73	17.86	
	6RB (0)	1779.3 (132665)	21.64	20.70	19.59	17.80	
		1745 (132322)	21.63	20.75	19.63	17.90	
		1710.7 (131979)	21.69	20.76	19.70	17.98	
	3MHz	1RB-High (14)	1778.5 (132657)	22.58	21.80	20.81	17.72
			1745 (132322)	22.70	21.84	20.90	17.99
			1711.5 (131987)	22.70	21.94	20.83	17.77
1RB-Middle (7)		1778.5 (132657)	22.64	21.99	20.81	17.89	
		1745 (132322)	22.66	21.98	20.92	17.81	
		1711.5 (131987)	22.69	22.18	21.01	17.79	
1RB-Low (0)		1778.5 (132657)	22.69	21.85	20.79	17.90	
		1745 (132322)	22.66	22.03	20.86	17.83	
		1711.5 (131987)	22.70	21.94	20.86	17.89	
8RB-High (7)		1778.5 (132657)	21.62	20.68	19.64	17.80	
		1745 (132322)	21.66	20.70	19.73	17.91	
		1711.5 (131987)	21.72	20.77	19.78	17.92	
8RB-Middle (4)		1778.5 (132657)	21.62	20.69	19.64	17.85	
		1745 (132322)	21.62	20.68	19.75	17.75	
		1711.5 (131987)	21.70	20.75	19.80	17.99	
8RB-Low (0)		1778.5 (132657)	21.62	20.69	19.68	17.99	
		1745 (132322)	21.68	20.75	19.69	17.80	
		1711.5 (131987)	21.78	20.82	19.76	17.77	
15RB (0)		1778.5 (132657)	21.62	20.65	19.63	17.74	
		1745 (132322)	21.64	20.70	19.66	17.84	
		1711.5 (131987)	21.73	20.76	19.68	17.91	
5MHz	1RB-High (24)	1777.5 (132647)	22.62	21.99	20.78	17.98	
		1745 (132322)	22.75	22.03	20.92	17.95	
		1712.5 (131997)	22.70	22.02	20.88	17.71	

	1RB-Middle (12)	1777.5 (132647)	22.63	21.94	20.85	17.84	
		1745 (132322)	22.72	21.96	20.89	17.95	
		1712.5 (131997)	22.83	21.97	20.86	17.85	
	1RB-Low (0)	1777.5 (132647)	22.67	21.91	20.91	17.91	
		1745 (132322)	22.68	21.93	20.88	17.83	
		1712.5 (131997)	22.87	22.15	20.99	17.90	
	12RB-High (13)	1777.5 (132647)	21.66	20.67	19.67	17.76	
		1745 (132322)	21.72	20.72	19.71	17.99	
		1712.5 (131997)	21.72	20.74	19.71	17.85	
	12RB-Middle (6)	1777.5 (132647)	21.68	20.67	19.65	17.98	
		1745 (132322)	21.75	20.74	19.71	17.89	
		1712.5 (131997)	21.70	20.72	19.79	17.97	
	12RB-Low (0)	1777.5 (132647)	21.68	20.66	19.73	17.95	
		1745 (132322)	21.74	20.70	19.72	17.74	
		1712.5 (131997)	21.76	20.81	19.81	17.72	
	25RB (0)	1777.5 (132647)	21.69	20.65	19.67	17.77	
		1745 (132322)	21.74	20.73	19.66	17.95	
		1712.5 (131997)	21.75	20.76	19.73	17.82	
	10MHz	1RB-High (49)	1775 (132622)	22.69	22.02	20.94	17.72
			1745 (132322)	22.81	22.08	20.96	17.79
			1715 (132022)	22.79	22.02	20.97	17.92
		1RB-Middle (24)	1775 (132622)	22.66	21.86	20.78	17.87
			1745 (132322)	22.71	22.00	20.93	17.93
			1715 (132022)	22.65	22.02	20.90	17.84
1RB-Low (0)		1775 (132622)	22.86	22.17	20.98	17.71	
		1745 (132322)	22.80	22.03	20.95	17.81	
		1715 (132022)	22.84	22.01	21.02	17.72	
25RB-High (25)		1775 (132622)	21.68	20.70	19.66	17.74	
		1745 (132322)	21.76	20.74	19.75	17.84	
		1715 (132022)	21.75	20.78	19.72	17.79	
25RB-Middle (12)		1775 (132622)	21.65	20.67	19.65	17.82	
		1745 (132322)	21.72	20.73	19.70	17.72	
		1715 (132022)	21.74	20.73	19.69	17.99	
25RB-Low (0)		1775 (132622)	21.72	20.75	19.69	17.73	
		1745 (132322)	21.74	20.75	19.74	17.77	
		1715 (132022)	21.75	20.76	19.74	17.73	
50RB (0)		1775 (132622)	21.71	20.73	19.69	17.76	
		1745 (132322)	21.74	20.73	19.73	17.79	
		1715 (132022)	21.77	20.75	19.73	17.86	
15MHz		1RB-High (74)	1772.5 (132597)	22.67	21.91	20.90	17.77
			1745 (132322)	22.78	22.15	21.01	17.88
			1717.5 (132047)	22.77	22.09	20.92	17.78

	1RB-Middle (37)	1772.5 (132597)	22.69	21.99	20.89	17.75	
		1745 (132322)	22.72	22.04	20.87	17.83	
		1717.5 (132047)	22.69	22.08	20.85	17.94	
	1RB-Low (0)	1772.5 (132597)	22.85	22.03	21.00	17.84	
		1745 (132322)	22.75	22.02	21.00	17.94	
		1717.5 (132047)	22.82	22.13	21.02	17.72	
	36RB-High (38)	1772.5 (132597)	21.68	20.66	19.68	17.82	
		1745 (132322)	21.74	20.74	19.74	17.94	
		1717.5 (132047)	21.73	20.72	19.72	17.74	
	36RB-Middle (19)	1772.5 (132597)	21.71	20.67	19.69	17.85	
		1745 (132322)	21.72	20.69	19.72	17.83	
		1717.5 (132047)	21.73	20.72	19.72	17.73	
	36RB-Low (0)	1772.5 (132597)	21.74	20.73	19.78	17.84	
		1745 (132322)	21.75	20.72	19.74	17.97	
		1717.5 (132047)	21.75	20.73	19.72	17.97	
	75RB (0)	1772.5 (132597)	21.70	20.74	19.72	17.87	
		1745 (132322)	21.75	20.76	19.74	17.78	
		1717.5 (132047)	21.74	20.76	19.73	17.77	
	20MHz	1RB-High (99)	1770 (132572)	22.70	21.87	20.89	17.91
			1745 (132322)	22.81	22.16	20.97	17.76
			1720 (132072)	22.81	22.00	20.99	17.88
1RB-Middle (50)		1770 (132572)	22.73	22.04	20.91	17.95	
		1745 (132322)	22.83	22.04	20.93	17.75	
		1720 (132072)	22.70	21.93	20.93	17.90	
1RB-Low (0)		1770 (132572)	22.79	22.08	20.96	17.93	
		1745 (132322)	22.77	21.96	21.00	17.95	
		1720 (132072)	22.80	22.06	21.03	17.98	
50RB-High (50)		1770 (132572)	21.72	20.74	19.72	17.97	
		1745 (132322)	21.78	20.79	19.77	17.75	
		1720 (132072)	21.76	20.79	19.77	17.88	
50RB-Middle (25)		1770 (132572)	21.75	20.74	19.76	17.75	
		1745 (132322)	21.76	20.75	19.78	17.91	
		1720 (132072)	21.74	20.75	19.73	17.91	
50RB-Low (0)		1770 (132572)	21.78	20.74	19.75	17.95	
		1745 (132322)	21.80	20.78	19.78	17.71	
		1720 (132072)	21.76	20.73	19.74	17.73	
100RB (0)		1770 (132572)	21.73	20.73	19.73	17.94	
		1745 (132322)	21.77	20.75	19.78	17.91	
		1720 (132072)	21.75	20.75	19.74	17.92	

LTE B66 (Power Level B1)

BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM	256QAM
1.4MHz	1RB-High (5)	1779.3 (132665)	13.10	12.51	12.78	12.84
		1745 (132322)	13.03	12.50	12.76	12.82
		1710.7 (131979)	13.09	12.50	12.73	12.79
	1RB-Middle (3)	1779.3 (132665)	13.04	12.51	12.78	12.84
		1745 (132322)	13.08	12.51	12.85	12.91
		1710.7 (131979)	13.14	12.55	12.75	12.81
	1RB-Low (0)	1779.3 (132665)	13.09	12.50	12.79	12.85
		1745 (132322)	13.09	12.53	12.78	12.84
		1710.7 (131979)	13.14	12.58	12.76	12.82
	3RB-High (3)	1779.3 (132665)	13.25	13.27	13.27	13.34
		1745 (132322)	13.23	13.23	13.25	13.32
		1710.7 (131979)	13.17	13.23	13.30	13.36
	3RB-Middle (1)	1779.3 (132665)	13.24	13.25	13.25	13.32
		1745 (132322)	13.22	13.24	13.27	13.34
		1710.7 (131979)	13.24	13.26	13.28	13.35
	3RB-Low (0)	1779.3 (132665)	13.18	13.27	13.30	13.36
		1745 (132322)	13.18	13.23	13.26	13.33
		1710.7 (131979)	13.18	13.26	13.25	13.32
	6RB (0)	1779.3 (132665)	12.67	12.67	12.58	12.64
		1745 (132322)	12.67	12.65	12.52	12.58
		1710.7 (131979)	12.66	12.61	12.56	12.62
3MHz	1RB-High (14)	1778.5 (132657)	13.14	12.51	12.82	12.88
		1745 (132322)	13.10	12.50	12.82	12.88
		1711.5 (131987)	13.11	12.48	12.75	12.81
	1RB-Middle (7)	1778.5 (132657)	13.07	12.48	12.76	12.82
		1745 (132322)	13.06	12.49	12.82	12.88
		1711.5 (131987)	13.11	12.45	12.85	12.91
	1RB-Low (0)	1778.5 (132657)	13.04	12.49	12.79	12.85
		1745 (132322)	13.01	12.50	12.84	12.90
		1711.5 (131987)	13.11	12.51	12.82	12.88
	8RB-High (7)	1778.5 (132657)	12.68	12.68	12.63	12.69
		1745 (132322)	12.64	12.67	12.63	12.69
		1711.5 (131987)	12.66	12.65	12.59	12.65
	8RB-Middle (4)	1778.5 (132657)	12.69	12.65	12.62	12.68
		1745 (132322)	12.62	12.63	12.62	12.68
		1711.5 (131987)	12.63	12.65	12.56	12.62
	8RB-Low (0)	1778.5 (132657)	12.66	12.66	12.61	12.67
		1745 (132322)	12.65	12.65	12.64	12.70
		1711.5 (131987)	12.67	12.65	12.59	12.65

	15RB (0)	1778.5 (132657)	12.65	12.68	12.60	12.66	
		1745 (132322)	12.64	12.67	12.59	12.65	
		1711.5 (131987)	12.63	12.63	12.56	12.62	
5MHz	1RB-High (24)	1777.5 (132647)	13.13	12.58	12.82	12.88	
		1745 (132322)	13.16	12.54	12.85	12.91	
		1712.5 (131997)	13.10	12.50	12.78	12.84	
	1RB-Middle (12)	1777.5 (132647)	13.16	12.55	12.84	12.90	
		1745 (132322)	13.09	12.57	12.78	12.84	
		1712.5 (131997)	13.15	12.63	12.78	12.84	
	1RB-Low (0)	1777.5 (132647)	13.15	12.53	12.84	12.90	
		1745 (132322)	13.12	12.57	12.79	12.85	
		1712.5 (131997)	13.19	12.56	12.81	12.87	
	12RB-High (13)	1777.5 (132647)	12.68	12.69	12.67	12.73	
		1745 (132322)	12.68	12.68	12.63	12.69	
		1712.5 (131997)	12.62	12.66	12.59	12.65	
	12RB-Middle (6)	1777.5 (132647)	12.67	12.69	12.63	12.69	
		1745 (132322)	12.62	12.69	12.58	12.64	
		1712.5 (131997)	12.61	12.64	12.58	12.64	
	12RB-Low (0)	1777.5 (132647)	12.65	12.68	12.65	12.71	
		1745 (132322)	12.68	12.69	12.63	12.69	
		1712.5 (131997)	12.64	12.69	12.63	12.69	
	25RB (0)	1777.5 (132647)	12.67	12.72	12.63	12.69	
		1745 (132322)	12.66	12.70	12.60	12.66	
		1712.5 (131997)	12.68	12.68	12.60	12.66	
	10MHz	1RB-High (49)	1775 (132622)	13.15	12.63	12.86	12.92
			1745 (132322)	13.13	12.57	12.86	12.92
			1715 (132022)	13.17	12.58	12.79	12.85
1RB-Middle (24)		1775 (132622)	13.10	12.51	12.78	12.84	
		1745 (132322)	13.09	12.53	12.76	12.82	
		1715 (132022)	13.15	12.54	12.80	12.86	
1RB-Low (0)		1775 (132622)	13.17	12.55	12.82	12.88	
		1745 (132322)	13.12	12.64	12.87	12.93	
		1715 (132022)	13.22	12.58	12.91	12.97	
25RB-High (25)		1775 (132622)	12.39	12.03	12.11	12.16	
		1745 (132322)	12.64	12.69	12.61	12.67	
		1715 (132022)	12.64	12.68	12.60	12.66	
25RB-Middle (12)		1775 (132622)	12.62	12.68	12.58	12.64	
		1745 (132322)	12.64	12.69	12.61	12.67	
		1715 (132022)	12.61	12.68	12.58	12.64	
25RB-Low (0)		1775 (132622)	12.66	12.71	12.63	12.69	
		1745 (132322)	12.67	12.71	12.62	12.68	
		1715 (132022)	12.67	12.70	12.61	12.67	

	50RB (0)	1775 (132622)	12.65	12.69	12.63	12.69	
		1745 (132322)	12.67	12.70	12.61	12.67	
		1715 (132022)	12.64	12.68	12.59	12.65	
15MHz	1RB-High (74)	1772.5 (132597)	13.17	12.58	12.86	12.92	
		1745 (132322)	13.16	12.58	12.84	12.90	
		1717.5 (132047)	13.12	12.54	12.82	12.88	
	1RB-Middle (37)	1772.5 (132597)	13.13	12.53	12.82	12.88	
		1745 (132322)	13.12	12.64	12.84	12.90	
		1717.5 (132047)	13.12	12.53	12.84	12.90	
	1RB-Low (0)	1772.5 (132597)	13.14	12.60	12.85	12.91	
		1745 (132322)	13.17	12.62	12.87	12.93	
		1717.5 (132047)	13.14	12.56	12.87	12.93	
	36RB-High (38)	1772.5 (132597)	12.64	12.68	12.63	12.69	
		1745 (132322)	12.64	12.69	12.64	12.70	
		1717.5 (132047)	12.64	12.69	12.63	12.69	
	36RB-Middle (19)	1772.5 (132597)	12.62	12.68	12.61	12.67	
		1745 (132322)	12.63	12.69	12.63	12.69	
		1717.5 (132047)	12.62	12.67	12.60	12.66	
	36RB-Low (0)	1772.5 (132597)	12.66	12.72	12.64	12.70	
		1745 (132322)	12.67	12.71	12.66	12.72	
		1717.5 (132047)	12.67	12.71	12.64	12.70	
	75RB (0)	1772.5 (132597)	12.66	12.70	12.62	12.68	
		1745 (132322)	12.69	12.70	12.61	12.67	
		1717.5 (132047)	12.66	12.69	12.61	12.67	
	20MHz	1RB-High (99)	1770 (132572)	13.22	12.58	12.88	12.94
			1745 (132322)	13.20	12.61	12.87	12.93
			1720 (132072)	13.15	12.56	12.86	12.92
		1RB-Middle (50)	1770 (132572)	13.14	12.53	12.79	12.85
			1745 (132322)	12.73	12.66	13.02	12.91
			1720 (132072)	13.11	12.52	12.81	12.87
1RB-Low (0)		1770 (132572)	13.23	12.58	12.91	12.97	
		1745 (132322)	13.16	12.58	12.86	12.92	
		1720 (132072)	13.14	12.56	12.87	12.93	
50RB-High (50)		1770 (132572)	12.64	12.67	12.60	12.66	
		1745 (132322)	12.67	12.71	12.66	12.72	
		1720 (132072)	12.67	12.71	12.63	12.69	
50RB-Middle (25)		1770 (132572)	12.69	12.69	12.65	12.71	
		1745 (132322)	12.67	12.70	12.66	12.72	
		1720 (132072)	12.65	12.69	12.61	12.67	
50RB-Low (0)		1770 (132572)	12.68	12.63	12.66	12.72	
		1745 (132322)	12.70	12.72	12.67	12.73	
		1720 (132072)	12.65	12.68	12.62	12.68	

	100RB (0)	1770 (132572)	12.67	12.71	12.64	12.70
		1745 (132322)	12.69	12.72	12.67	12.73
		1720 (132072)	12.66	12.69	12.61	12.67

LTE B66 (Power Level C1)

BANDWIDTH	Number of RBs	Frequency	QPSK	16QAM	64QAM	256QAM	
1.4MHz	1RB-High (5)	1779.3 (132665)	10.61	10.49	10.55	10.57	
		1745 (132322)	10.58	10.64	10.60	10.53	
		1710.7 (131979)	10.51	10.64	10.58	10.54	
	1RB-Middle (3)	1779.3 (132665)	10.60	10.63	10.65	10.54	
		1745 (132322)	10.65	10.64	10.58	10.40	
		1710.7 (131979)	10.53	10.63	10.55	10.46	
	1RB-Low (0)	1779.3 (132665)	10.61	10.49	10.50	10.53	
		1745 (132322)	10.55	10.58	10.65	10.52	
		1710.7 (131979)	10.65	10.49	10.56	10.51	
	3RB-High (3)	1779.3 (132665)	10.34	10.27	10.22	9.79	
		1745 (132322)	10.35	10.30	10.19	9.77	
		1710.7 (131979)	10.23	10.16	10.28	9.69	
	3RB-Middle (1)	1779.3 (132665)	10.21	10.33	10.22	9.67	
		1745 (132322)	10.16	10.21	10.31	9.84	
		1710.7 (131979)	10.21	10.29	10.33	9.84	
	3RB-Low (0)	1779.3 (132665)	10.19	10.26	10.32	9.85	
		1745 (132322)	10.29	10.28	10.31	9.71	
		1710.7 (131979)	10.27	10.32	10.20	9.84	
	6RB (0)	1779.3 (132665)	10.29	10.26	10.31	9.65	
		1745 (132322)	10.24	10.33	10.30	9.73	
		1710.7 (131979)	10.26	10.27	10.35	9.83	
	3MHz	1RB-High (14)	1778.5 (132657)	10.53	10.57	10.65	10.40
			1745 (132322)	10.51	10.64	10.64	10.58
			1711.5 (131987)	10.64	10.57	10.50	10.51
		1RB-Middle (7)	1778.5 (132657)	10.56	10.64	10.65	10.58
			1745 (132322)	10.54	10.62	10.51	10.57
			1711.5 (131987)	10.65	10.52	10.63	10.58
1RB-Low (0)		1778.5 (132657)	10.62	10.53	10.53	10.54	
		1745 (132322)	10.62	10.63	10.64	10.56	
		1711.5 (131987)	10.57	10.53	10.61	10.65	
8RB-High (7)		1778.5 (132657)	10.16	10.30	10.21	9.66	
		1745 (132322)	10.26	10.20	10.28	9.80	
		1711.5 (131987)	10.29	10.33	10.15	9.85	
8RB-Middle (4)		1778.5 (132657)	10.35	10.34	10.35	9.74	
		1745 (132322)	10.32	10.17	10.28	9.68	

		1711.5 (131987)	10.30	10.30	10.23	9.79	
	8RB-Low (0)	1778.5 (132657)	10.24	10.30	10.20	9.84	
		1745 (132322)	10.29	10.19	10.30	9.67	
		1711.5 (131987)	10.23	10.31	10.30	9.85	
	15RB (0)	1778.5 (132657)	10.21	10.30	10.25	9.83	
		1745 (132322)	10.18	10.20	10.25	9.84	
		1711.5 (131987)	10.24	10.26	10.24	9.85	
5MHz	1RB-High (24)	1777.5 (132647)	10.65	10.60	10.58	10.51	
		1745 (132322)	10.53	10.50	10.60	10.52	
		1712.5 (131997)	10.63	10.60	10.51	10.42	
	1RB-Middle (12)	1777.5 (132647)	10.53	10.60	10.49	10.39	
		1745 (132322)	10.51	10.64	10.51	10.53	
		1712.5 (131997)	10.50	10.56	10.64	10.64	
	1RB-Low (0)	1777.5 (132647)	10.58	10.50	10.51	10.52	
		1745 (132322)	10.59	10.50	10.52	10.44	
		1712.5 (131997)	10.62	10.50	10.50	10.50	
	12RB-High (13)	1777.5 (132647)	10.33	10.18	10.30	9.85	
		1745 (132322)	10.18	10.31	10.19	9.65	
		1712.5 (131997)	10.32	10.26	10.22	9.71	
	12RB-Middle (6)	1777.5 (132647)	10.26	10.20	10.28	9.77	
		1745 (132322)	10.31	10.17	10.26	9.69	
		1712.5 (131997)	10.34	10.28	10.24	9.78	
	12RB-Low (0)	1777.5 (132647)	10.15	10.29	10.25	9.76	
		1745 (132322)	10.21	10.33	10.20	9.85	
		1712.5 (131997)	10.15	10.28	10.25	9.69	
	25RB (0)	1777.5 (132647)	10.27	10.16	10.20	9.84	
		1745 (132322)	10.27	10.23	10.30	9.80	
		1712.5 (131997)	10.33	10.23	10.26	9.74	
	10MHz	1RB-High (49)	1775 (132622)	10.57	10.57	10.62	10.63
			1745 (132322)	10.49	10.51	10.60	10.40
			1715 (132022)	10.56	10.57	10.55	10.48
1RB-Middle (24)		1775 (132622)	10.65	10.60	10.50	10.65	
		1745 (132322)	10.65	10.60	10.65	10.63	
		1715 (132022)	10.64	10.56	10.60	10.54	
1RB-Low (0)		1775 (132622)	10.64	10.55	10.51	10.42	
		1745 (132322)	10.55	10.53	10.52	10.63	
		1715 (132022)	10.53	10.53	10.62	10.63	
25RB-High (25)		1775 (132622)	10.19	10.29	10.17	9.81	
		1745 (132322)	10.22	10.15	10.31	9.73	
		1715 (132022)	10.28	10.33	10.27	9.68	
25RB-Middle (12)		1775 (132622)	10.15	10.31	10.31	9.74	
		1745 (132322)	10.35	10.30	10.30	9.83	

		1715 (132022)	10.19	10.22	10.25	9.70
	25RB-Low (0)	1775 (132622)	10.17	10.24	10.30	9.75
		1745 (132322)	10.27	10.18	10.23	9.82
		1715 (132022)	10.23	10.20	10.33	9.76
	50RB (0)	1775 (132622)	10.22	10.21	10.33	9.78
		1745 (132322)	10.33	10.26	10.31	9.73
		1715 (132022)	10.25	10.30	10.19	9.78
15MHz	1RB-High (74)	1772.5 (132597)	10.49	10.58	10.60	10.43
		1745 (132322)	10.58	10.54	10.62	10.52
		1717.5 (132047)	10.65	10.54	10.54	10.54
	1RB-Middle (37)	1772.5 (132597)	10.63	10.61	10.51	10.44
		1745 (132322)	10.60	10.50	10.52	10.48
		1717.5 (132047)	10.65	10.62	10.49	10.42
	1RB-Low (0)	1772.5 (132597)	10.63	10.51	10.61	10.63
		1745 (132322)	10.61	10.51	10.62	10.41
		1717.5 (132047)	10.56	10.65	10.49	10.64
	36RB-High (38)	1772.5 (132597)	10.34	10.15	10.16	9.85
		1745 (132322)	10.25	10.16	10.27	9.71
		1717.5 (132047)	10.17	10.27	10.23	9.67
	36RB-Middle (19)	1772.5 (132597)	10.23	10.24	10.35	9.79
		1745 (132322)	10.25	10.17	10.18	9.85
		1717.5 (132047)	10.23	10.33	10.31	9.75
	36RB-Low (0)	1772.5 (132597)	10.19	10.33	10.19	9.74
		1745 (132322)	10.33	10.22	10.15	9.77
		1717.5 (132047)	10.27	10.21	10.26	9.70
75RB (0)	1772.5 (132597)	10.21	10.24	10.32	9.65	
	1745 (132322)	10.29	10.33	10.30	9.82	
	1717.5 (132047)	10.34	10.18	10.30	9.80	
20MHz	1RB-High (99)	1770 (132572)	10.63	10.49	10.52	10.46
		1745 (132322)	10.49	10.58	10.49	10.54
		1720 (132072)	10.56	10.63	10.64	10.54
	1RB-Middle (50)	1770 (132572)	10.54	10.59	10.49	10.61
		1745 (132322)	10.49	10.49	10.61	10.46
		1720 (132072)	10.66	10.65	10.63	10.53
	1RB-Low (0)	1770 (132572)	10.63	10.51	10.56	10.40
		1745 (132322)	10.64	10.56	10.61	10.44
		1720 (132072)	10.64	10.58	10.59	10.38
	50RB-High (50)	1770 (132572)	10.21	10.34	10.28	9.82
		1745 (132322)	10.31	10.34	10.27	9.77
		1720 (132072)	10.29	10.19	10.31	9.77
50RB-Middle (25)	1770 (132572)	10.20	10.21	10.33	9.73	
	1745 (132322)	10.29	10.17	10.20	9.82	

50RB-Low (0)	1720 (132072)	10.23	10.30	10.16	9.80
	1770 (132572)	10.28	10.16	10.21	9.71
	1745 (132322)	10.16	10.30	10.29	9.70
	1720 (132072)	10.33	10.18	10.35	9.65
100RB (0)	1770 (132572)	10.19	10.19	10.35	9.85
	1745 (132322)	10.28	10.20	10.29	9.85
	1720 (132072)	10.17	10.22	10.31	9.75

LTE Carrier Aggregation Conducted Power

DL LTE CA Class	DLCA										
	PCC					SCC					conducted power (dBm)
	PCC Bandwidth	UL channel	DL channel	UL RB	UL RB OFFSET	SCC Bandwidth	DL channel	RB	RB OFFSET		
CA_4A-13A	20	132322	66786	1	99	10	5230	1	0	22.7	
CA_13A-4A	10	23230	5230	1	0	20	66786	1	50	22.99	
CA_13A-66A	10	23230	5230	25	25	20	66786	1	50	23.01	
CA_66A-13A	20	132322	66786	1	99	10	5230	1	0	22.51	
CA_2A-13A	20	18900	900	1	50	10	5230	1	0	22.72	
CA_13A-2A	10	23230	5230	25	25	10	900	1	50	23.02	
CA_2A-2A	20	18700	700	1	0	20	1100	1	0	22.63	
CA_2A-4A	20	18900	900	1	50	20	66786	1	50	22.65	
CA_4A-2A	20	132322	66786	1	99	20	1100	1	0	22.55	
CA_2A-66A	20	18900	900	1	50	20	66786	1	50	22.65	
CA_66A-2A	20	132322	66786	1	99	20	1100	1	0	22.63	
CA_5A-2A	10	20525	2525	1	24	20	1100	1	0	22.89	
CA_2A-5A	20	18900	900	1	50	10	2525	1	24	22.76	
CA_5A-4A	10	20525	2525	1	24	20	66786	1	50	22.79	
CA_4A-5A	20	132322	66786	1	99	10	2525	1	24	22.64	
CA_5A-66A	10	20525	2525	1	24	20	66786	1	50	22.83	
CA_66A-5A	20	132322	66786	1	99	20	66786	1	50	22.53	
CA_4A-4A	20	132322	66786	1	99	20	66786	1	50	22.7	
CA_5B	10	20450	2450	1	0	10	2549	1	0	22.65	
CA_5A-5A	10	20450	2450	1	49	10	2600	1	49	22.79	
CA_66A-66A	20	132072	66536	1	99	20	67036	1	99	22.65	
CA_66B	20	132572	67036	1	99	20	67108	1	99	22.47	
CA_66C	20	132572	67036	1	99	20	67234	1	99	22.52	
CA_2A-48A	20	18900	900	1	50	20	3690	1	99	22.76	
CA_48A-2A	20	56640	3690	1	99	20	1100	1	0	22.85	
CA_4A-48A	20	132322	66786	1	99	20	3690	1	99	22.58	
CA_48A-4A	20	56640	3690	1	99	20	66786	1	50	22.79	
CA_48A-13A	20	56640	3690	1	99	10	5230	1	0	22.76	
CA_13A-48A	10	23230	5230	25	25	20	3690	1	99	22.98	
CA_66A-48A	20	132322	66786	1	99	20	3690	1	99	22.62	
CA_48A-66A	20	56640	3690	1	99	20	66786	1	50	22.71	
CA_48C	20	55340	3560	1	0	20	55484	1	0	22.67	
CA_5A-48A	10	20450	2450	1	49	20	3690	1	99	22.81	
CA_48A-5A	20	56640	3690	1	99	10	2525	1	24	22.69	

11.3 5G NR Measurement result

Maximum Target Power for Production Unit

Band	ANT	Tune up (dBm)		
		Power Level A1	Power Level B1	Power Level C1
n2 ANT2	2	24.0	14.0	11
n2 ANT0	0	24.0	14.0	11
N48 ANT0	5	24.0	11.0	/
n66 ANT2	2	24.0	14.0	11
n66 ANT0	0	24.0	14.0	11
n5	0	24.0	21.0	18
n77	5	26.5	11.5	9.5
n78	5	24.0	11.0	10

N2 ANT2 (Power Level A1)

No.	Test Freq Description	5G-n2							Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.	n2
1	High	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	1907.5	381500	22.42
2	Middle	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	1880	376000	22.61
3	Low	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	1852.5	370500	22.57
4	High	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	1900	380000	22.45
5	Middle	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	1880	376000	22.59
6	Low	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	1860	372000	22.58
7	Middle	15	5	DFT-s-OFDM P1/2 BPSK1	Inner_Full	12_6	1880	376000	22.63
8	Middle	15	5	DFT-s-OFDM 16QAM	Inner_Full	12_6	1880	376000	21.59
9	Middle	15	5	DFT-s-OFDM 64QAM	Inner_Full	12_6	1880	376000	20.06
10	Middle	15	5	DFT-s-OFDM 256QAM	Inner_Full	12_6	1880	376000	18.12
11	Middle	15	5	CP-OFDM QPSK	Inner_Full	12_6	1880	376000	21.05
12	Middle	15	5	CP-OFDM 16QAM	Inner_Full	12_6	1880	376000	20.63
13	Middle	15	5	CP-OFDM 64QAM	Inner_Full	12_6	1880	376000	19.09
14	Middle	15	5	CP-OFDM 256QAM	Inner_Full	12_6	1880	376000	16.11
15	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Right	2_23	1880	376000	21.58
16	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Left	2_0	1880	376000	21.57
17	Middle	15	5	DFT-s-OFDM QPSK	Edge_1RB_Right	1_24	1880	376000	21.49
18	Middle	15	5	DFT-s-OFDM QPSK	Edge_1RB_Left	1_0	1880	376000	21.51
19	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Right	1_23	1880	376000	22.49
20	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Left	1_1	1880	376000	22.53
21	Middle	15	5	DFT-s-OFDM QPSK	Outer_Full	25_0	1880	376000	21.63
22	Middle	15	10	DFT-s-OFDM QPSK	Inner_Full	25_12	1880	376000	22.58
23	Middle	15	15	DFT-s-OFDM QPSK	Inner_Full	36_18	1880	376000	22.55

N2 ANT2 (Power Level B1)

No.	Test Freq Description	5G-n2							Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.	n2
1	High	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	1907.5	381500	13.25
2	Middle	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	1880	376000	13.28
3	Low	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	1852.5	370500	13.19
4	High	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	1900	380000	13.12
5	Middle	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	1880	376000	13.26
6	Low	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	1860	372000	13.21
7	Middle	15	5	DFT-s-OFDM PI/2 BPSK1	Inner_Full	12_6	1880	376000	13.33
8	Middle	15	5	DFT-s-OFDM 16QAM	Inner_Full	12_6	1880	376000	13.22
9	Middle	15	5	DFT-s-OFDM 64QAM	Inner_Full	12_6	1880	376000	13.13
10	Middle	15	5	DFT-s-OFDM 256QAM	Inner_Full	12_6	1880	376000	13.16
11	Middle	15	5	CP-OFDM QPSK	Inner_Full	12_6	1880	376000	13.29
12	Middle	15	5	CP-OFDM 16QAM	Inner_Full	12_6	1880	376000	13.15
13	Middle	15	5	CP-OFDM 64QAM	Inner_Full	12_6	1880	376000	13.11
14	Middle	15	5	CP-OFDM 256QAM	Inner_Full	12_6	1880	376000	13.19
15	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Right	2_23	1880	376000	13.33
16	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Left	2_0	1880	376000	13.29
17	Middle	15	5	DFT-s-OFDM QPSK	Edge_1RB_Right	1_24	1880	376000	13.09
18	Middle	15	5	DFT-s-OFDM QPSK	Edge_1RB_Left	1_0	1880	376000	13.26
19	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Right	1_23	1880	376000	13.32
20	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Left	1_1	1880	376000	13.11
21	Middle	15	5	DFT-s-OFDM QPSK	Outer_Full	25_0	1880	376000	13.29
22	Middle	15	10	DFT-s-OFDM QPSK	Inner_Full	25_12	1880	376000	13.26
23	Middle	15	15	DFT-s-OFDM QPSK	Inner_Full	36_18	1880	376000	13.12

N2 ANT2 (Power Level C1)

No.	Test Freq Description	5G-n2							Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.	n2
1	High	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	1907.5	381500	9.99
2	Middle	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	1880	376000	10.08
3	Low	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	1852.5	370500	10.00
4	High	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	1900	380000	9.96
5	Middle	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	1880	376000	10.06
6	Low	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	1860	372000	9.99
7	Middle	15	5	DFT-s-OFDM PI/2 BPSK1	Inner_Full	12_6	1880	376000	9.98
8	Middle	15	5	DFT-s-OFDM 16QAM	Inner_Full	12_6	1880	376000	9.95
9	Middle	15	5	DFT-s-OFDM 64QAM	Inner_Full	12_6	1880	376000	9.99
10	Middle	15	5	DFT-s-OFDM 256QAM	Inner_Full	12_6	1880	376000	9.96
11	Middle	15	5	CP-OFDM QPSK	Inner_Full	12_6	1880	376000	9.95
12	Middle	15	5	CP-OFDM 16QAM	Inner_Full	12_6	1880	376000	9.99
13	Middle	15	5	CP-OFDM 64QAM	Inner_Full	12_6	1880	376000	10.04
14	Middle	15	5	CP-OFDM 256QAM	Inner_Full	12_6	1880	376000	10.02
15	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Right	2_23	1880	376000	9.97
16	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Left	2_0	1880	376000	10.05
17	Middle	15	5	DFT-s-OFDM QPSK	Edge_1RB_Right	1_24	1880	376000	9.95
18	Middle	15	5	DFT-s-OFDM QPSK	Edge_1RB_Left	1_0	1880	376000	10.08
19	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Right	1_23	1880	376000	10.09
20	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Left	1_1	1880	376000	10.09
21	Middle	15	5	DFT-s-OFDM QPSK	Outer_Full	25_0	1880	376000	10.03
22	Middle	15	10	DFT-s-OFDM QPSK	Inner_Full	25_12	1880	376000	10.09
23	Middle	15	15	DFT-s-OFDM QPSK	Inner_Full	36_18	1880	376000	10.03

N5 (Power Level A1)

No.	Test Freq Description	5G-n5							Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.	n5
1	High	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	846.5	169300	22.85
2	Middle	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	836.5	167300	22.91
3	Low	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	826.5	165300	22.88
4	High	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	839	167800	22.86
5	Middle	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	836.5	167300	22.89
6	Low	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	834	166800	22.85
7	Middle	15	5	DFT-s-OFDM PI/2 BPSK1	Inner_Full	12_6	836.5	167300	22.87
8	Middle	15	5	DFT-s-OFDM 16QAM	Inner_Full	12_6	836.5	167300	21.87
9	Middle	15	5	DFT-s-OFDM 64QAM	Inner_Full	12_6	836.5	167300	20.38
10	Middle	15	5	DFT-s-OFDM 256QAM	Inner_Full	12_6	836.5	167300	18.42
11	Middle	15	5	CP-OFDM QPSK	Inner_Full	12_6	836.5	167300	21.39
12	Middle	15	5	CP-OFDM 16QAM	Inner_Full	12_6	836.5	167300	20.96
13	Middle	15	5	CP-OFDM 64QAM	Inner_Full	12_6	836.5	167300	19.43
14	Middle	15	5	CP-OFDM 256QAM	Inner_Full	12_6	836.5	167300	16.33
15	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Right	2_23	836.5	167300	21.89
16	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Left	2_0	836.5	167300	21.82
17	Middle	15	5	DFT-s-OFDM QPSK	Edge_1RB_Right	1_24	836.5	167300	21.72
18	Middle	15	5	DFT-s-OFDM QPSK	Edge_1RB_Left	1_0	836.5	167300	21.71
19	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Right	1_23	836.5	167300	22.74
20	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Left	1_1	836.5	167300	22.68
21	Middle	15	5	DFT-s-OFDM QPSK	Outer_Full	25_0	836.5	167300	21.89
22	Middle	15	10	DFT-s-OFDM QPSK	Inner_Full	25_12	836.5	167300	22.83
23	Middle	15	15	DFT-s-OFDM QPSK	Inner_Full	36_18	836.5	167300	22.85

N5 (Power Level B1)

No.	Test Freq Description	5G-n5							Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.	n5
1	High	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	846.5	169300	19.97
2	Middle	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	836.5	167300	20.18
3	Low	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	826.5	165300	20.09
4	High	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	839	167800	20.15
5	Middle	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	836.5	167300	19.97
6	Low	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	834	166800	20.02
7	Middle	15	5	DFT-s-OFDM PI/2 BPSK1	Inner_Full	12_6	836.5	167300	20.18
8	Middle	15	5	DFT-s-OFDM 16QAM	Inner_Full	12_6	836.5	167300	20.17
9	Middle	15	5	DFT-s-OFDM 64QAM	Inner_Full	12_6	836.5	167300	20.15
10	Middle	15	5	DFT-s-OFDM 256QAM	Inner_Full	12_6	836.5	167300	18.68
11	Middle	15	5	CP-OFDM QPSK	Inner_Full	12_6	836.5	167300	20.15
12	Middle	15	5	CP-OFDM 16QAM	Inner_Full	12_6	836.5	167300	20.21
13	Middle	15	5	CP-OFDM 64QAM	Inner_Full	12_6	836.5	167300	19.66
14	Middle	15	5	CP-OFDM 256QAM	Inner_Full	12_6	836.5	167300	16.59
15	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Right	2_23	836.5	167300	20.04
16	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Left	2_0	836.5	167300	20.20
17	Middle	15	5	DFT-s-OFDM QPSK	Edge_1RB_Right	1_24	836.5	167300	20.01
18	Middle	15	5	DFT-s-OFDM QPSK	Edge_1RB_Left	1_0	836.5	167300	20.04
19	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Right	1_23	836.5	167300	20.20
20	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Left	1_1	836.5	167300	20.14
21	Middle	15	5	DFT-s-OFDM QPSK	Outer_Full	25_0	836.5	167300	20.04
22	Middle	15	10	DFT-s-OFDM QPSK	Inner_Full	25_12	836.5	167300	19.96
23	Middle	15	15	DFT-s-OFDM QPSK	Inner_Full	36_18	836.5	167300	20.12

N5 (Power Level C1)

No.	Test Freq Description	5G-n5							Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.	n5
1	High	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	846.5	169300	17.09
2	Middle	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	836.5	167300	17.16
3	Low	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	826.5	165300	17.13
4	High	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	839	167800	16.98
5	Middle	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	836.5	167300	17.00
6	Low	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	834	166800	16.97
7	Middle	15	5	DFT-s-OFDM Pi/2 BPSK1	Inner_Full	12_6	836.5	167300	17.16
8	Middle	15	5	DFT-s-OFDM 16QAM	Inner_Full	12_6	836.5	167300	17.11
9	Middle	15	5	DFT-s-OFDM 64QAM	Inner_Full	12_6	836.5	167300	17.12
10	Middle	15	5	DFT-s-OFDM 256QAM	Inner_Full	12_6	836.5	167300	17.16
11	Middle	15	5	CP-OFDM QPSK	Inner_Full	12_6	836.5	167300	17.13
12	Middle	15	5	CP-OFDM 16QAM	Inner_Full	12_6	836.5	167300	17.21
13	Middle	15	5	CP-OFDM 64QAM	Inner_Full	12_6	836.5	167300	17.17
14	Middle	15	5	CP-OFDM 256QAM	Inner_Full	12_6	836.5	167300	16.59
15	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Right	2_23	836.5	167300	16.99
16	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Left	2_0	836.5	167300	17.13
17	Middle	15	5	DFT-s-OFDM QPSK	Edge_1RB_Right	1_24	836.5	167300	17.19
18	Middle	15	5	DFT-s-OFDM QPSK	Edge_1RB_Left	1_0	836.5	167300	17.09
19	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Right	1_23	836.5	167300	16.97
20	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Left	1_1	836.5	167300	17.05
21	Middle	15	5	DFT-s-OFDM QPSK	Outer_Full	25_0	836.5	167300	17.18
22	Middle	15	10	DFT-s-OFDM QPSK	Inner_Full	25_12	836.5	167300	17.08
23	Middle	15	15	DFT-s-OFDM QPSK	Inner_Full	36_18	836.5	167300	17.08

N66 ANT2 (Power Level A1)

No.	Test Freq Description	5G-n66							Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.	n66
1	High	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	1777.5	355500	22.39
2	Middle	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	1745	349000	22.47
3	Low	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	1712.5	342500	22.45
4	High	15	40	DFT-s-OFDM QPSK	Inner_Full	108_54	1760	352000	22.44
5	Middle	15	40	DFT-s-OFDM QPSK	Inner_Full	108_54	1745	349000	22.43
6	Low	15	40	DFT-s-OFDM QPSK	Inner_Full	108_54	1730	346000	22.45
7	Middle	15	5	DFT-s-OFDM Pi/2 BPSK1	Inner_Full	12_6	1745	349000	22.49
8	Middle	15	5	DFT-s-OFDM 16QAM	Inner_Full	12_6	1745	349000	21.46
9	Middle	15	5	DFT-s-OFDM 64QAM	Inner_Full	12_6	1745	349000	19.93
10	Middle	15	5	DFT-s-OFDM 256QAM	Inner_Full	12_6	1745	349000	17.98
11	Middle	15	5	CP-OFDM QPSK	Inner_Full	12_6	1745	349000	20.93
12	Middle	15	5	CP-OFDM 16QAM	Inner_Full	12_6	1745	349000	20.49
13	Middle	15	5	CP-OFDM 64QAM	Inner_Full	12_6	1745	349000	18.95
14	Middle	15	5	CP-OFDM 256QAM	Inner_Full	12_6	1745	349000	16.01
15	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Right	2_23	1745	349000	21.45
16	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Left	2_0	1745	349000	21.42
17	Middle	15	5	DFT-s-OFDM QPSK	Edge_1RB_Right	1_24	1745	349000	21.35
18	Middle	15	5	DFT-s-OFDM QPSK	Edge_1RB_Left	1_0	1745	349000	21.34
19	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Right	1_23	1745	349000	22.36
20	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Left	1_1	1745	349000	22.35
21	Middle	15	5	DFT-s-OFDM QPSK	Outer_Full	25_0	1745	349000	21.48
22	Middle	15	10	DFT-s-OFDM QPSK	Inner_Full	25_12	1745	349000	22.32
23	Middle	15	15	DFT-s-OFDM QPSK	Inner_Full	36_18	1745	349000	22.28
24	Middle	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	1745	349000	22.35
25	Middle	15	25	DFT-s-OFDM QPSK	Inner_Full	64_32	1745	349000	22.33
26	Middle	15	30	DFT-s-OFDM QPSK	Inner_Full	80_40	1745	349000	22.39

N66 ANT2 (Power Level B1)

No.	Test Freq Description	5G-n66							Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation	NR Test Freq. (MHz)	NR Test CH.	n66	
1	High	15	5	DFT-s-OFDM QPSK	Inner_Full	12.6	1777.5	355500	13.02
2	Middle	15	5	DFT-s-OFDM QPSK	Inner_Full	12.6	1745	349000	13.27
3	Low	15	5	DFT-s-OFDM QPSK	Inner_Full	12.6	1712.5	342500	13.21
4	High	15	40	DFT-s-OFDM QPSK	Inner_Full	108.54	1760	352000	13.17
5	Middle	15	40	DFT-s-OFDM QPSK	Inner_Full	108.54	1745	349000	13.18
6	Low	15	40	DFT-s-OFDM QPSK	Inner_Full	108.54	1730	346000	13.19
7	Middle	15	5	DFT-s-OFDM PI/2 BPSK1	Inner_Full	12.6	1745	349000	13.18
8	Middle	15	5	DFT-s-OFDM 16QAM	Inner_Full	12.6	1745	349000	13.17
9	Middle	15	5	DFT-s-OFDM 64QAM	Inner_Full	12.6	1745	349000	13.18
10	Middle	15	5	DFT-s-OFDM 256QAM	Inner_Full	12.6	1745	349000	13.24
11	Middle	15	5	CP-OFDM QPSK	Inner_Full	12.6	1745	349000	13.07
12	Middle	15	5	CP-OFDM 16QAM	Inner_Full	12.6	1745	349000	13.19
13	Middle	15	5	CP-OFDM 64QAM	Inner_Full	12.6	1745	349000	13.14
14	Middle	15	5	CP-OFDM 256QAM	Inner_Full	12.6	1745	349000	13.09
15	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Right	2.23	1745	349000	13.02
16	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Left	2.0	1745	349000	13.05
17	Middle	15	5	DFT-s-OFDM QPSK	Edge_1RB_Right	1.24	1745	349000	13.09
18	Middle	15	5	DFT-s-OFDM QPSK	Edge_1RB_Left	1.0	1745	349000	13.12
19	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Right	1.23	1745	349000	13.15
20	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Left	1.1	1745	349000	13.03
21	Middle	15	5	DFT-s-OFDM QPSK	Outer_Full	25.0	1745	349000	13.23
22	Middle	15	10	DFT-s-OFDM QPSK	Inner_Full	25.12	1745	349000	13.17
23	Middle	15	15	DFT-s-OFDM QPSK	Inner_Full	36.18	1745	349000	13.07
24	Middle	15	20	DFT-s-OFDM QPSK	Inner_Full	50.25	1745	349000	13.04
25	Middle	15	25	DFT-s-OFDM QPSK	Inner_Full	64.32	1745	349000	13.21
26	Middle	15	30	DFT-s-OFDM QPSK	Inner_Full	80.40	1745	349000	13.02

N66 ANT2 (Power Level C1)

No.	Test Freq Description	5G-n66							Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation	NR Test Freq. (MHz)	NR Test CH.	n66	
1	High	15	5	DFT-s-OFDM QPSK	Inner_Full	12.6	1777.5	355500	9.98
2	Middle	15	5	DFT-s-OFDM QPSK	Inner_Full	12.6	1745	349000	10.09
3	Low	15	5	DFT-s-OFDM QPSK	Inner_Full	12.6	1712.5	342500	9.95
4	High	15	40	DFT-s-OFDM QPSK	Inner_Full	108.54	1760	352000	10.02
5	Middle	15	40	DFT-s-OFDM QPSK	Inner_Full	108.54	1745	349000	10.00
6	Low	15	40	DFT-s-OFDM QPSK	Inner_Full	108.54	1730	346000	9.93
7	Middle	15	5	DFT-s-OFDM PI/2 BPSK1	Inner_Full	12.6	1745	349000	10.07
8	Middle	15	5	DFT-s-OFDM 16QAM	Inner_Full	12.6	1745	349000	9.98
9	Middle	15	5	DFT-s-OFDM 64QAM	Inner_Full	12.6	1745	349000	10.04
10	Middle	15	5	DFT-s-OFDM 256QAM	Inner_Full	12.6	1745	349000	9.96
11	Middle	15	5	CP-OFDM QPSK	Inner_Full	12.6	1745	349000	9.91
12	Middle	15	5	CP-OFDM 16QAM	Inner_Full	12.6	1745	349000	9.92
13	Middle	15	5	CP-OFDM 64QAM	Inner_Full	12.6	1745	349000	9.98
14	Middle	15	5	CP-OFDM 256QAM	Inner_Full	12.6	1745	349000	9.94
15	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Right	2.23	1745	349000	9.91
16	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Left	2.0	1745	349000	9.94
17	Middle	15	5	DFT-s-OFDM QPSK	Edge_1RB_Right	1.24	1745	349000	9.90
18	Middle	15	5	DFT-s-OFDM QPSK	Edge_1RB_Left	1.0	1745	349000	10.06
19	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Right	1.23	1745	349000	9.94
20	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Left	1.1	1745	349000	9.94
21	Middle	15	5	DFT-s-OFDM QPSK	Outer_Full	25.0	1745	349000	9.96
22	Middle	15	10	DFT-s-OFDM QPSK	Inner_Full	25.12	1745	349000	10.02
23	Middle	15	15	DFT-s-OFDM QPSK	Inner_Full	36.18	1745	349000	9.89
24	Middle	15	20	DFT-s-OFDM QPSK	Inner_Full	50.25	1745	349000	9.94
25	Middle	15	25	DFT-s-OFDM QPSK	Inner_Full	64.32	1745	349000	10.06
26	Middle	15	30	DFT-s-OFDM QPSK	Inner_Full	80.40	1745	349000	10.09

N2 ANT0 (Power Level A1)

No.	Test Freq Description	5G-n2							Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.	n2
1	High	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	1907.5	381500	22.21
2	Middle	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	1880	376000	22.87
3	Low	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	1852.5	370500	22.39
4	High	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	1900	380000	22.48
5	Middle	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	1880	376000	22.35
6	Low	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	1860	372000	22.28
7	Middle	15	5	DFT-s-OFDM PI/2 BPSK1	Inner_Full	12_6	1880	376000	22.59
8	Middle	15	5	DFT-s-OFDM 16QAM	Inner_Full	12_6	1880	376000	21.63
9	Middle	15	5	DFT-s-OFDM 64QAM	Inner_Full	12_6	1880	376000	20.12
10	Middle	15	5	DFT-s-OFDM 256QAM	Inner_Full	12_6	1880	376000	18.17
11	Middle	15	5	CP-OFDM QPSK	Inner_Full	12_6	1880	376000	21.09
12	Middle	15	5	CP-OFDM 16QAM	Inner_Full	12_6	1880	376000	20.66
13	Middle	15	5	CP-OFDM 64QAM	Inner_Full	12_6	1880	376000	19.12
14	Middle	15	5	CP-OFDM 256QAM	Inner_Full	12_6	1880	376000	16.06
15	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Right	2_23	1880	376000	21.52
16	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Left	2_0	1880	376000	21.71
17	Middle	15	5	DFT-s-OFDM QPSK	Edge_1RB_Right	1_24	1880	376000	21.38
18	Middle	15	5	DFT-s-OFDM QPSK	Edge_1RB_Left	1_0	1880	376000	21.62
19	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Right	1_23	1880	376000	22.42
20	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Left	1_1	1880	376000	22.61
21	Middle	15	5	DFT-s-OFDM QPSK	Outer_Full	25_0	1880	376000	21.68
22	Middle	15	10	DFT-s-OFDM QPSK	Inner_Full	25_12	1880	376000	22.58
23	Middle	15	15	DFT-s-OFDM QPSK	Inner_Full	36_18	1880	376000	22.52

N2 ANT0 (Power Level B1)

No.	Test Freq Description	5G-n2							Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.	n2
1	High	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	1907.5	381500	12.85
2	Middle	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	1880	376000	13.07
3	Low	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	1852.5	370500	13.05
4	High	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	1900	380000	12.84
5	Middle	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	1880	376000	13.00
6	Low	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	1860	372000	12.97
7	Middle	15	5	DFT-s-OFDM PI/2 BPSK1	Inner_Full	12_6	1880	376000	12.93
8	Middle	15	5	DFT-s-OFDM 16QAM	Inner_Full	12_6	1880	376000	12.84
9	Middle	15	5	DFT-s-OFDM 64QAM	Inner_Full	12_6	1880	376000	12.92
10	Middle	15	5	DFT-s-OFDM 256QAM	Inner_Full	12_6	1880	376000	13.08
11	Middle	15	5	CP-OFDM QPSK	Inner_Full	12_6	1880	376000	13.01
12	Middle	15	5	CP-OFDM 16QAM	Inner_Full	12_6	1880	376000	13.08
13	Middle	15	5	CP-OFDM 64QAM	Inner_Full	12_6	1880	376000	12.99
14	Middle	15	5	CP-OFDM 256QAM	Inner_Full	12_6	1880	376000	12.93
15	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Right	2_23	1880	376000	13.06
16	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Left	2_0	1880	376000	12.87
17	Middle	15	5	DFT-s-OFDM QPSK	Edge_1RB_Right	1_24	1880	376000	13.04
18	Middle	15	5	DFT-s-OFDM QPSK	Edge_1RB_Left	1_0	1880	376000	12.88
19	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Right	1_23	1880	376000	12.95
20	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Left	1_1	1880	376000	12.86
21	Middle	15	5	DFT-s-OFDM QPSK	Outer_Full	25_0	1880	376000	12.93
22	Middle	15	10	DFT-s-OFDM QPSK	Inner_Full	25_12	1880	376000	12.86
23	Middle	15	15	DFT-s-OFDM QPSK	Inner_Full	36_18	1880	376000	12.93

N2 ANT0 (Power Level C1)

No.	Test Freq Description	5G-n2							Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.	n2
1	High	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	1907.5	381500	9.39
2	Middle	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	1880	376000	9.46
3	Low	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	1852.5	370500	9.43
4	High	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	1900	380000	9.39
5	Middle	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	1880	376000	9.44
6	Low	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	1860	372000	9.32
7	Middle	15	5	DFT-s-OFDM Pi/2 BPSK1	Inner_Full	12_6	1880	376000	9.37
8	Middle	15	5	DFT-s-OFDM 16QAM	Inner_Full	12_6	1880	376000	9.32
9	Middle	15	5	DFT-s-OFDM 64QAM	Inner_Full	12_6	1880	376000	9.43
10	Middle	15	5	DFT-s-OFDM 256QAM	Inner_Full	12_6	1880	376000	9.32
11	Middle	15	5	CP-OFDM QPSK	Inner_Full	12_6	1880	376000	9.35
12	Middle	15	5	CP-OFDM 16QAM	Inner_Full	12_6	1880	376000	9.43
13	Middle	15	5	CP-OFDM 64QAM	Inner_Full	12_6	1880	376000	9.32
14	Middle	15	5	CP-OFDM 256QAM	Inner_Full	12_6	1880	376000	9.31
15	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Right	2_23	1880	376000	9.40
16	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Left	2_0	1880	376000	9.31
17	Middle	15	5	DFT-s-OFDM QPSK	Edge_1RB_Right	1_24	1880	376000	9.39
18	Middle	15	5	DFT-s-OFDM QPSK	Edge_1RB_Left	1_0	1880	376000	9.34
19	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Right	1_23	1880	376000	9.32
20	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Left	1_1	1880	376000	9.36
21	Middle	15	5	DFT-s-OFDM QPSK	Outer_Full	25_0	1880	376000	9.42
22	Middle	15	10	DFT-s-OFDM QPSK	Inner_Full	25_12	1880	376000	9.38
23	Middle	15	15	DFT-s-OFDM QPSK	Inner_Full	36_18	1880	376000	9.38

N2 ANT5 (Power Level A1)

No.	Test Freq Description	5G-n48							Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.	n48
1	High	30	10	DFT-s-OFDM QPSK	Inner_Full	12_6	3694.98	646332	22.09
2	Middle	30	10	DFT-s-OFDM QPSK	Inner_Full	12_6	3624.99	641666	22.60
3	Low	30	10	DFT-s-OFDM QPSK	Inner_Full	12_6	3555	637000	22.59
4	Low	30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3649.98	643332	22.50
5	Middle	30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3624.99	641666	22.20
6	High	30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3600	640000	22.13
1	Low	30	10	DFT-s-OFDM Pi/2 BPSK1	Inner_Full	12_6	3624.99	641666	22.06
2	Low	30	10	DFT-s-OFDM 16QAM	Inner_Full	12_6	3624.99	641666	21.06
3	Low	30	10	DFT-s-OFDM 64QAM	Inner_Full	12_6	3624.99	641666	19.59
4	Low	30	10	DFT-s-OFDM 256QAM	Inner_Full	12_6	3624.99	641666	18.20
5	Low	30	10	CP-OFDM QPSK	Inner_Full	12_6	3624.99	641666	20.36
6	Low	30	10	CP-OFDM 16QAM	Inner_Full	12_6	3624.99	641666	19.83
7	Low	30	10	CP-OFDM 64QAM	Inner_Full	12_6	3624.99	641666	18.90
8	Low	30	10	CP-OFDM 256QAM	Inner_Full	12_6	3624.99	641666	15.90
9	Low	30	10	DFT-s-OFDM QPSK	Edge_Full_Right	1_23	3624.99	641666	21.60
10	Low	30	10	DFT-s-OFDM QPSK	Edge_Full_Left	1_0	3624.99	641666	21.49
11	Low	30	10	DFT-s-OFDM QPSK	Edge_1RB_Right	2_22	3624.99	641666	21.50
12	Low	30	10	DFT-s-OFDM QPSK	Edge_1RB_Left	2_0	3624.99	641666	21.45
13	Low	30	10	DFT-s-OFDM QPSK	Inner_1RB_Right	1_22	3624.99	641666	22.69
14	Low	30	10	DFT-s-OFDM QPSK	Inner_1RB_Left	1_1	3624.99	641666	22.51
15	Low	30	10	DFT-s-OFDM QPSK	Outer_Full	24_0	3624.99	641666	21.77
18	Low	30	15	DFT-s-OFDM QPSK	Inner_Full	18_9	3624.99	641666	22.28
18	Low	30	20	DFT-s-OFDM QPSK	Inner_Full	25_12	3624.99	641666	22.26
18	Low	30	30	DFT-s-OFDM QPSK	Inner_Full	36_18	3624.99	641666	22.30
18	Low	30	40	DFT-s-OFDM QPSK	Inner_Full	50@25	3624.99	641666	22.27
18	Low	30	50	DFT-s-OFDM QPSK	Inner_Full	64@32	3624.99	641666	22.18
18	Low	30	60	DFT-s-OFDM QPSK	Inner_Full	81@40	3624.99	641666	22.29
18	Low	30	80	DFT-s-OFDM QPSK	Inner_Full	108@54	3624.99	641666	22.32
18	Low	30	90	DFT-s-OFDM QPSK	Inner_Full	120@60	3624.99	641666	22.27

N2 ANT5 (Power Level B1)

No.	Test Freq Description	5G-n48							Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.	n48
1	High	30	10	DFT-s-OFDM QPSK	Inner_Full	12_6	3694.98	646332	10.46
2	Middle	30	10	DFT-s-OFDM QPSK	Inner_Full	12_6	3624.99	641666	10.71
3	Low	30	10	DFT-s-OFDM QPSK	Inner_Full	12_6	3555	637000	10.70
4	Low	30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3649.98	643332	10.65
5	Middle	30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3624.99	641666	10.51
6	High	30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3600	640000	10.48
7	Low	30	10	DFT-s-OFDM PI/2 BPSK1	Inner_Full	12_6	3624.99	641666	10.44
8	Low	30	10	DFT-s-OFDM 16QAM	Inner_Full	12_6	3624.99	641666	9.97
9	Low	30	10	DFT-s-OFDM 64QAM	Inner_Full	12_6	3624.99	641666	9.27
10	Low	30	10	DFT-s-OFDM 256QAM	Inner_Full	12_6	3624.99	641666	8.62
11	Low	30	10	CP-OFDM QPSK	Inner_Full	12_6	3624.99	641666	9.64
12	Low	30	10	CP-OFDM 16QAM	Inner_Full	12_6	3624.99	641666	9.39
13	Low	30	10	CP-OFDM 64QAM	Inner_Full	12_6	3624.99	641666	8.95
14	Low	30	10	CP-OFDM 256QAM	Inner_Full	12_6	3624.99	641666	7.53
15	Low	30	10	DFT-s-OFDM QPSK	Edge_Full_Right	1_23	3624.99	641666	10.23
16	Low	30	10	DFT-s-OFDM QPSK	Edge_Full_Left	1_0	3624.99	641666	10.17
17	Low	30	10	DFT-s-OFDM QPSK	Edge_1RB_Right	2_22	3624.99	641666	10.18
18	Low	30	10	DFT-s-OFDM QPSK	Edge_1RB_Left	2_0	3624.99	641666	10.16
19	Low	30	10	DFT-s-OFDM QPSK	Inner_1RB_Right	1_22	3624.99	641666	10.74
20	Low	30	10	DFT-s-OFDM QPSK	Inner_1RB_Left	1_1	3624.99	641666	10.66
21	Low	30	10	DFT-s-OFDM QPSK	Outer_Full	24_0	3624.99	641666	10.31
22	Low	30	15	DFT-s-OFDM QPSK	Inner_Full	18_9	3624.99	641666	10.55
23	Low	30	20	DFT-s-OFDM QPSK	Inner_Full	25_12	3624.99	641666	10.54
24	Low	30	30	DFT-s-OFDM QPSK	Inner_Full	36_18	3624.99	641666	10.56
25	Low	30	40	DFT-s-OFDM QPSK	Inner_Full	50@25	3624.99	641666	10.54
26	Low	30	50	DFT-s-OFDM QPSK	Inner_Full	64@32	3624.99	641666	10.50
27	Low	30	60	DFT-s-OFDM QPSK	Inner_Full	81@40	3624.99	641666	10.55
28	Low	30	80	DFT-s-OFDM QPSK	Inner_Full	108@54	3624.99	641666	10.57
29	Low	30	90	DFT-s-OFDM QPSK	Inner_Full	120@60	3624.99	641666	10.54

N66 ANT0 (Power Level A1)

No.	Test Freq Description	5G-n66							Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.	n66
1	High	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	1777.5	355500	23.21
2	Middle	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	1745	349000	23.23
3	Low	15	5	DFT-s-OFDM QPSK	Inner_Full	12_6	1712.5	342500	23.15
4	High	15	40	DFT-s-OFDM QPSK	Inner_Full	108_54	1760	352000	23.06
5	Middle	15	40	DFT-s-OFDM QPSK	Inner_Full	108_54	1745	349000	23.01
6	Low	15	40	DFT-s-OFDM QPSK	Inner_Full	108_54	1730	346000	22.86
7	Middle	15	5	DFT-s-OFDM PI/2 BPSK1	Inner_Full	12_6	1745	349000	23.05
8	Middle	15	5	DFT-s-OFDM 16QAM	Inner_Full	12_6	1745	349000	22.04
9	Middle	15	5	DFT-s-OFDM 64QAM	Inner_Full	12_6	1745	349000	20.52
10	Middle	15	5	DFT-s-OFDM 256QAM	Inner_Full	12_6	1745	349000	18.56
11	Middle	15	5	CP-OFDM QPSK	Inner_Full	12_6	1745	349000	21.57
12	Middle	15	5	CP-OFDM 16QAM	Inner_Full	12_6	1745	349000	21.09
13	Middle	15	5	CP-OFDM 64QAM	Inner_Full	12_6	1745	349000	19.54
14	Middle	15	5	CP-OFDM 256QAM	Inner_Full	12_6	1745	349000	16.49
15	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Right	2_23	1745	349000	22.04
16	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Left	2_0	1745	349000	22.01
17	Middle	15	5	DFT-s-OFDM QPSK	Edge_1RB_Right	1_24	1745	349000	21.92
18	Middle	15	5	DFT-s-OFDM QPSK	Edge_1RB_Left	1_0	1745	349000	21.91
19	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Right	1_23	1745	349000	22.95
20	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Left	1_1	1745	349000	22.97
21	Middle	15	5	DFT-s-OFDM QPSK	Outer_Full	25_0	1745	349000	22.08
22	Middle	15	10	DFT-s-OFDM QPSK	Inner_Full	25_12	1745	349000	23.09
23	Middle	15	15	DFT-s-OFDM QPSK	Inner_Full	36_18	1745	349000	22.97
24	Middle	15	20	DFT-s-OFDM QPSK	Inner_Full	50_25	1745	349000	23.16
25	Middle	15	25	DFT-s-OFDM QPSK	Inner_Full	64_32	1745	349000	22.89
26	Middle	15	30	DFT-s-OFDM QPSK	Inner_Full	80_40	1745	349000	23.03

N66 ANT0 (Power Level B1)

No.	Test Freq Description	5G-n66							Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation	NR Test Freq. (MHz)	NR Test CH.	n66	
1	High	15	5	DFT-s-OFDM QPSK	Inner_Full	12.6	1777.5	355500	13.42
2	Middle	15	5	DFT-s-OFDM QPSK	Inner_Full	12.6	1745	349000	13.58
3	Low	15	5	DFT-s-OFDM QPSK	Inner_Full	12.6	1712.5	342500	13.39
4	High	15	40	DFT-s-OFDM QPSK	Inner_Full	108.54	1760	352000	13.46
5	Middle	15	40	DFT-s-OFDM QPSK	Inner_Full	108.54	1745	349000	13.56
6	Low	15	40	DFT-s-OFDM QPSK	Inner_Full	108.54	1730	346000	13.47
7	Middle	15	5	DFT-s-OFDM PI/2 BPSK1	Inner_Full	12.6	1745	349000	13.59
8	Middle	15	5	DFT-s-OFDM 16QAM	Inner_Full	12.6	1745	349000	13.54
9	Middle	15	5	DFT-s-OFDM 64QAM	Inner_Full	12.6	1745	349000	13.56
10	Middle	15	5	DFT-s-OFDM 256QAM	Inner_Full	12.6	1745	349000	13.54
11	Middle	15	5	CP-OFDM QPSK	Inner_Full	12.6	1745	349000	13.46
12	Middle	15	5	CP-OFDM 16QAM	Inner_Full	12.6	1745	349000	13.39
13	Middle	15	5	CP-OFDM 64QAM	Inner_Full	12.6	1745	349000	13.46
14	Middle	15	5	CP-OFDM 256QAM	Inner_Full	12.6	1745	349000	13.44
15	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Right	2.23	1745	349000	13.53
16	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Left	2.0	1745	349000	13.53
17	Middle	15	5	DFT-s-OFDM QPSK	Edge_1RB_Right	1.24	1745	349000	13.42
18	Middle	15	5	DFT-s-OFDM QPSK	Edge_1RB_Left	1.0	1745	349000	13.40
19	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Right	1.23	1745	349000	13.54
20	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Left	1.1	1745	349000	13.38
21	Middle	15	5	DFT-s-OFDM QPSK	Outer_Full	25.0	1745	349000	13.57
22	Middle	15	10	DFT-s-OFDM QPSK	Inner_Full	25.12	1745	349000	13.59
23	Middle	15	15	DFT-s-OFDM QPSK	Inner_Full	36.18	1745	349000	13.44
24	Middle	15	20	DFT-s-OFDM QPSK	Inner_Full	50.25	1745	349000	13.43
25	Middle	15	25	DFT-s-OFDM QPSK	Inner_Full	64.32	1745	349000	13.53
26	Middle	15	30	DFT-s-OFDM QPSK	Inner_Full	80.40	1745	349000	13.45

N66 ANT0 (Power Level C1)

No.	Test Freq Description	5G-n66							Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation	NR Test Freq. (MHz)	NR Test CH.	n66	
1	High	15	5	DFT-s-OFDM QPSK	Inner_Full	12.6	1777.5	355500	10.21
2	Middle	15	5	DFT-s-OFDM QPSK	Inner_Full	12.6	1745	349000	10.35
3	Low	15	5	DFT-s-OFDM QPSK	Inner_Full	12.6	1712.5	342500	10.28
4	High	15	40	DFT-s-OFDM QPSK	Inner_Full	108.54	1760	352000	10.33
5	Middle	15	40	DFT-s-OFDM QPSK	Inner_Full	108.54	1745	349000	10.32
6	Low	15	40	DFT-s-OFDM QPSK	Inner_Full	108.54	1730	346000	10.24
7	Middle	15	5	DFT-s-OFDM PI/2 BPSK1	Inner_Full	12.6	1745	349000	10.19
8	Middle	15	5	DFT-s-OFDM 16QAM	Inner_Full	12.6	1745	349000	10.24
9	Middle	15	5	DFT-s-OFDM 64QAM	Inner_Full	12.6	1745	349000	10.2
10	Middle	15	5	DFT-s-OFDM 256QAM	Inner_Full	12.6	1745	349000	10.19
11	Middle	15	5	CP-OFDM QPSK	Inner_Full	12.6	1745	349000	10.32
12	Middle	15	5	CP-OFDM 16QAM	Inner_Full	12.6	1745	349000	10.23
13	Middle	15	5	CP-OFDM 64QAM	Inner_Full	12.6	1745	349000	10.2
14	Middle	15	5	CP-OFDM 256QAM	Inner_Full	12.6	1745	349000	10.34
15	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Right	2.23	1745	349000	10.28
16	Middle	15	5	DFT-s-OFDM QPSK	Edge_Full_Left	2.0	1745	349000	10.28
17	Middle	15	5	DFT-s-OFDM QPSK	Edge_1RB_Right	1.24	1745	349000	10.23
18	Middle	15	5	DFT-s-OFDM QPSK	Edge_1RB_Left	1.0	1745	349000	10.32
19	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Right	1.23	1745	349000	10.19
20	Middle	15	5	DFT-s-OFDM QPSK	Inner_1RB_Left	1.1	1745	349000	10.32
21	Middle	15	5	DFT-s-OFDM QPSK	Outer_Full	25.0	1745	349000	10.34
22	Middle	15	10	DFT-s-OFDM QPSK	Inner_Full	25.12	1745	349000	10.34
23	Middle	15	15	DFT-s-OFDM QPSK	Inner_Full	36.18	1745	349000	10.34
24	Middle	15	20	DFT-s-OFDM QPSK	Inner_Full	50.25	1745	349000	10.29
25	Middle	15	25	DFT-s-OFDM QPSK	Inner_Full	64.32	1745	349000	10.28
26	Middle	15	30	DFT-s-OFDM QPSK	Inner_Full	80.40	1745	349000	10.23

N77L (Power Level A1)

No.	Test Freq Description	5G-n77							Power Results
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.	n77
1	High	30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3540	636000	24.62
2	Middle	30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3500.01	633334	25.00
3	Low	30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3460.02	630668	24.51
4	High	30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3499.98	633332	24.56
5	Middle	30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3500.01	633334	24.53
6	Middle	30	20	DFT-s-OFDM PI/2 BPSK1	Inner_Full	25@12	3500.01	633334	24.61
7	Middle	30	20	DFT-s-OFDM 16QAM	Inner_Full	25@12	3500.01	633334	24.03
8	Middle	30	20	DFT-s-OFDM 64QAM	Inner_Full	25@12	3500.01	633334	22.52
9	Middle	30	20	DFT-s-OFDM 256QAM	Inner_Full	25@12	3500.01	633334	20.42
10	Middle	30	20	CP-OFDM QPSK	Inner_Full	25@12	3500.01	633334	23.59
11	Middle	30	20	CP-OFDM 16QAM	Inner_Full	25@12	3500.01	633334	23.07
12	Middle	30	20	CP-OFDM 64QAM	Inner_Full	25@12	3500.01	633334	21.44
13	Middle	30	20	CP-OFDM 256QAM	Inner_Full	25@12	3500.01	633334	18.32
14	Middle	30	20	DFT-s-OFDM QPSK	Edge_Full_Right	2@49	3500.01	633334	21.56
15	Middle	30	20	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	3500.01	633334	21.53
16	Middle	30	20	DFT-s-OFDM QPSK	Inner_1RB_Right	1@49	3500.01	633334	24.53
17	Middle	30	20	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	3500.01	633334	24.55
18	Middle	30	20	DFT-s-OFDM QPSK	Outer_Full	50@0	3500.01	633334	24.06
21	Middle-5	30	40	DFT-s-OFDM QPSK	Inner_Full	50@25	3500.01	633334	24.58
22	Middle-5	30	50	DFT-s-OFDM QPSK	Inner_Full	64@32	3500.01	633334	24.59
23	Middle-5	30	60	DFT-s-OFDM QPSK	Inner_Full	81@40	3500.01	633334	24.55
24	Middle-5	30	80	DFT-s-OFDM QPSK	Inner_Full	108@54	3500.01	633334	24.59
25	Middle-5	30	90	DFT-s-OFDM QPSK	Inner_Full	120@60	3500.01	633334	24.52

N77L (Power Level B1)

No.	Test Freq Description	5G-n77							Power Results
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.	n77
1	High	30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3540	636000	10.06
2	Middle	30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3500.01	633334	10.22
3	Low	30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3460.02	630668	10.09
4	High	30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3499.98	633332	10.15
5	Middle	30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3500.01	633334	10.17
6	Middle	30	20	DFT-s-OFDM PI/2 BPSK1	Inner_Full	25@12	3500.01	633334	10.14
7	Middle	30	20	DFT-s-OFDM 16QAM	Inner_Full	25@12	3500.01	633334	10.20
8	Middle	30	20	DFT-s-OFDM 64QAM	Inner_Full	25@12	3500.01	633334	10.05
9	Middle	30	20	DFT-s-OFDM 256QAM	Inner_Full	25@12	3500.01	633334	10.17
10	Middle	30	20	CP-OFDM QPSK	Inner_Full	25@12	3500.01	633334	9.97
11	Middle	30	20	CP-OFDM 16QAM	Inner_Full	25@12	3500.01	633334	10.16
12	Middle	30	20	CP-OFDM 64QAM	Inner_Full	25@12	3500.01	633334	10.18
13	Middle	30	20	CP-OFDM 256QAM	Inner_Full	25@12	3500.01	633334	10.05
14	Middle	30	20	DFT-s-OFDM QPSK	Edge_Full_Right	2@49	3500.01	633334	10.15
15	Middle	30	20	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	3500.01	633334	10.09
16	Middle	30	20	DFT-s-OFDM QPSK	Inner_1RB_Right	1@49	3500.01	633334	10.20
17	Middle	30	20	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	3500.01	633334	10.21
18	Middle	30	20	DFT-s-OFDM QPSK	Outer_Full	50@0	3500.01	633334	10.18
21	Middle-5	30	40	DFT-s-OFDM QPSK	Inner_Full	50@25	3500.01	633334	9.99
22	Middle-5	30	50	DFT-s-OFDM QPSK	Inner_Full	64@32	3500.01	633334	10.19
23	Middle-5	30	60	DFT-s-OFDM QPSK	Inner_Full	81@40	3500.01	633334	10.22
24	Middle-5	30	80	DFT-s-OFDM QPSK	Inner_Full	108@54	3500.01	633334	10.15
25	Middle-5	30	90	DFT-s-OFDM QPSK	Inner_Full	120@60	3500.01	633334	10.21

N77L (Power Level C1)

No.	Test Freq Description	5G-n77							Power Results
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.	n77
1	High	30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3540	636000	8.57
2	Middle	30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3500.01	633334	8.69
3	Low	30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3460.02	630668	8.55
4	High	30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3499.98	633332	8.66
5	Middle	30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3500.01	633334	8.58
6	Middle	30	20	DFT-s-OFDM PI/2 BPSK1	Inner_Full	25@12	3500.01	633334	8.67
7	Middle	30	20	DFT-s-OFDM 16QAM	Inner_Full	25@12	3500.01	633334	8.78
8	Middle	30	20	DFT-s-OFDM 64QAM	Inner_Full	25@12	3500.01	633334	8.64
9	Middle	30	20	DFT-s-OFDM 256QAM	Inner_Full	25@12	3500.01	633334	8.71
10	Middle	30	20	CP-OFDM QPSK	Inner_Full	25@12	3500.01	633334	8.70
11	Middle	30	20	CP-OFDM 16QAM	Inner_Full	25@12	3500.01	633334	8.62
12	Middle	30	20	CP-OFDM 64QAM	Inner_Full	25@12	3500.01	633334	8.65
13	Middle	30	20	CP-OFDM 256QAM	Inner_Full	25@12	3500.01	633334	8.64
14	Middle	30	20	DFT-s-OFDM QPSK	Edge_Full_Right	2@49	3500.01	633334	8.55
15	Middle	30	20	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	3500.01	633334	8.59
16	Middle	30	20	DFT-s-OFDM QPSK	Inner_1RB_Right	1@49	3500.01	633334	8.55
17	Middle	30	20	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	3500.01	633334	8.56
18	Middle	30	20	DFT-s-OFDM QPSK	Outer_Full	50@0	3500.01	633334	8.58
21	Middle-5	30	40	DFT-s-OFDM QPSK	Inner_Full	50@25	3500.01	633334	8.76
22	Middle-5	30	50	DFT-s-OFDM QPSK	Inner_Full	64@32	3500.01	633334	8.65
23	Middle-5	30	60	DFT-s-OFDM QPSK	Inner_Full	81@40	3500.01	633334	8.78
24	Middle-5	30	80	DFT-s-OFDM QPSK	Inner_Full	108@54	3500.01	633334	8.62
25	Middle-5	30	90	DFT-s-OFDM QPSK	Inner_Full	120@60	3500.01	633334	8.59

N77H (Power Level A1)

No.	Test Freq Description	5G-n77							Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.	n77
1	High	30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3969.990	664666	24.39
2	Middle-1	30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3918.000	661200	24.37
3	Middle-2	30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3866.000	657733	24.56
4	Middle-3	30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3814.000	654267	24.67
5	Middle-5	30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3762.000	650800	24.71
6	Low	30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3710.010	647334	24.65
7	High	30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3930.000	662000	24.35
8	Middle-1	30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3894.000	659600	24.47
9	Middle-2	30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3858.000	657200	24.56
10	Middle-3	30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3822.000	654800	24.64
11	Middle-4	30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3786.000	652400	24.66
12	Low	30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3750.000	650000	24.69
13	High	30	20	DFT-s-OFDM PI/2 BPSK1	Inner_Full	25@12	3969.990	664666	24.64
14	High	30	20	DFT-s-OFDM 16QAM	Inner_Full	25@12	3969.990	664666	24.18
15	High	30	20	DFT-s-OFDM 64QAM	Inner_Full	25@12	3969.990	664666	22.66
16	High	30	20	DFT-s-OFDM 256QAM	Inner_Full	25@12	3969.990	664666	20.84
17	High	30	20	CP-OFDM QPSK	Inner_Full	25@12	3969.990	664666	23.65
18	High	30	20	CP-OFDM 16QAM	Inner_Full	25@12	3969.990	664666	23.18
19	High	30	20	CP-OFDM 64QAM	Inner_Full	25@12	3969.990	664666	21.54
20	High	30	20	CP-OFDM 256QAM	Inner_Full	25@12	3969.990	664666	18.71
21	High	30	20	DFT-s-OFDM QPSK	Edge_Full_Right	2@49	3969.990	664666	21.69
22	High	30	20	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	3969.990	664666	21.65
23	High	30	20	DFT-s-OFDM QPSK	Inner_1RB_Right	1@49	3969.990	664666	24.59
24	High	30	20	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	3969.990	664666	24.57
25	High	30	20	DFT-s-OFDM QPSK	Outer_Full	50@0	3969.990	664666	24.16
26	High	30	40	DFT-s-OFDM QPSK	Inner_Full	50@25	3960.000	664000	24.62
27	High	30	50	DFT-s-OFDM QPSK	Inner_Full	64@32	3954.480	663632	24.59
28	High	30	60	DFT-s-OFDM QPSK	Inner_Full	81@40	3949.980	663332	24.62
29	High	30	80	DFT-s-OFDM QPSK	Inner_Full	108@54	3939.990	662666	24.61
30	High	30	90	DFT-s-OFDM QPSK	Inner_Full	120@60	3934.980	662332	24.57

N77H (Power Level B1)

No.	Test Freq Description	5G-n77							Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation	NR Test Freq. (MHz)	NR Test CH.	n77	
1	High	30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3969.990	664666	10.41
2	Middle-1	30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3918.000	661200	10.28
3	Middle-2	30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3866.000	657733	10.09
4	Middle-3	30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3814.000	654267	10.23
5	Middle-5	30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3762.000	650800	10.25
6	Low	30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3710.010	647334	10.38
7	High	30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3930.000	662000	10.29
8	Middle-1	30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3894.000	659600	10.32
9	Middle-2	30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3858.000	657200	10.31
10	Middle-3	30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3822.000	654800	10.17
11	Middle-4	30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3786.000	652400	10.32
12	Low	30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3750.000	650000	10.11
13	High	30	20	DFT-s-OFDM PI/2 BPSK1	Inner_Full	25@12	3969.990	664666	10.38
14	High	30	20	DFT-s-OFDM 16QAM	Inner_Full	25@12	3969.990	664666	10.29
15	High	30	20	DFT-s-OFDM 64QAM	Inner_Full	25@12	3969.990	664666	10.11
16	High	30	20	DFT-s-OFDM 256QAM	Inner_Full	25@12	3969.990	664666	10.20
17	High	30	20	CP-OFDM QPSK	Inner_Full	25@12	3969.990	664666	10.32
18	High	30	20	CP-OFDM 16QAM	Inner_Full	25@12	3969.990	664666	10.19
19	High	30	20	CP-OFDM 64QAM	Inner_Full	25@12	3969.990	664666	10.34
20	High	30	20	CP-OFDM 256QAM	Inner_Full	25@12	3969.990	664666	10.21
21	High	30	20	DFT-s-OFDM QPSK	Edge_Full_Right	2@49	3969.990	664666	10.20
22	High	30	20	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	3969.990	664666	10.18
23	High	30	20	DFT-s-OFDM QPSK	Inner_1RB_Right	1@49	3969.990	664666	10.34
24	High	30	20	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	3969.990	664666	10.25
25	High	30	20	DFT-s-OFDM QPSK	Outer_Full	50@0	3969.990	664666	10.15
26	High	30	40	DFT-s-OFDM QPSK	Inner_Full	50@25	3960.000	664000	10.36
27	High	30	50	DFT-s-OFDM QPSK	Inner_Full	64@32	3954.480	663632	10.37
28	High	30	60	DFT-s-OFDM QPSK	Inner_Full	81@40	3949.980	663332	10.23
29	High	30	80	DFT-s-OFDM QPSK	Inner_Full	108@54	3939.990	662666	10.32
30	High	30	90	DFT-s-OFDM QPSK	Inner_Full	120@60	3934.980	662332	10.31

N77H (Power Level C1)

No.	Test Freq Description	5G-n77							Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation	NR Test Freq. (MHz)	NR Test CH.	n77	
1	High	30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3969.990	664666	8.68
2	Middle-1	30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3918.000	661200	8.66
3	Middle-2	30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3866.000	657733	8.63
4	Middle-3	30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3814.000	654267	8.63
5	Middle-5	30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3762.000	650800	8.69
6	Low	30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3710.010	647334	8.66
7	High	30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3930.000	662000	8.60
8	Middle-1	30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3894.000	659600	8.61
9	Middle-2	30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3858.000	657200	8.63
10	Middle-3	30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3822.000	654800	8.63
11	Middle-4	30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3786.000	652400	8.59
12	Low	30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3750.000	650000	8.67
13	High	30	20	DFT-s-OFDM PI/2 BPSK1	Inner_Full	25@12	3969.990	664666	8.60
14	High	30	20	DFT-s-OFDM 16QAM	Inner_Full	25@12	3969.990	664666	8.66
15	High	30	20	DFT-s-OFDM 64QAM	Inner_Full	25@12	3969.990	664666	8.66
16	High	30	20	DFT-s-OFDM 256QAM	Inner_Full	25@12	3969.990	664666	8.67
17	High	30	20	CP-OFDM QPSK	Inner_Full	25@12	3969.990	664666	8.61
18	High	30	20	CP-OFDM 16QAM	Inner_Full	25@12	3969.990	664666	8.65
19	High	30	20	CP-OFDM 64QAM	Inner_Full	25@12	3969.990	664666	8.61
20	High	30	20	CP-OFDM 256QAM	Inner_Full	25@12	3969.990	664666	8.60
21	High	30	20	DFT-s-OFDM QPSK	Edge_Full_Right	2@49	3969.990	664666	8.64
22	High	30	20	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	3969.990	664666	8.63
23	High	30	20	DFT-s-OFDM QPSK	Inner_1RB_Right	1@49	3969.990	664666	8.59
24	High	30	20	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	3969.990	664666	8.67
25	High	30	20	DFT-s-OFDM QPSK	Outer_Full	50@0	3969.990	664666	8.63
26	High	30	40	DFT-s-OFDM QPSK	Inner_Full	50@25	3960.000	664000	8.65
27	High	30	50	DFT-s-OFDM QPSK	Inner_Full	64@32	3954.480	663632	8.63
28	High	30	60	DFT-s-OFDM QPSK	Inner_Full	81@40	3949.980	663332	8.62
29	High	30	80	DFT-s-OFDM QPSK	Inner_Full	108@54	3939.990	662666	8.63
30	High	30	90	DFT-s-OFDM QPSK	Inner_Full	120@60	3934.980	662332	8.66

N78L (Power Level A1)

No.	Test Freq Description	5G-n78							Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.	n78
1	High	30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3540	636000	23.12
2	Middle	30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3500.01	633334	23.13
3	Low	30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3460.02	630668	22.98
4	High	30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3499.98	633332	23.01
5	Middle	30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3500.01	633334	23.09
6	Middle	30	20	DFT-s-OFDM P/2 BPSK1	Inner_Full	25@12	3500.01	633334	23.06
7	Middle	30	20	DFT-s-OFDM 16QAM	Inner_Full	25@12	3500.01	633334	22.08
8	Middle	30	20	DFT-s-OFDM 64QAM	Inner_Full	25@12	3500.01	633334	20.54
9	Middle	30	20	DFT-s-OFDM 256QAM	Inner_Full	25@12	3500.01	633334	18.56
10	Middle	30	20	CP-OFDM QPSK	Inner_Full	25@12	3500.01	633334	21.56
11	Middle	30	20	CP-OFDM 16QAM	Inner_Full	25@12	3500.01	633334	21.08
12	Middle	30	20	CP-OFDM 64QAM	Inner_Full	25@12	3500.01	633334	19.45
13	Middle	30	20	CP-OFDM 256QAM	Inner_Full	25@12	3500.01	633334	16.49
14	Middle	30	20	DFT-s-OFDM QPSK	Edge_1RB_Right	2@49	3500.01	633334	22.06
15	Middle	30	20	DFT-s-OFDM QPSK	Edge_1RB_Left	2@0	3500.01	633334	22.07
16	Middle	30	20	DFT-s-OFDM QPSK	Edge_Full_Right	1@50	3500.01	633334	22.08
17	Middle	30	20	DFT-s-OFDM QPSK	Edge_Full_Left	1@0	3500.01	633334	21.99
18	Middle	30	20	DFT-s-OFDM QPSK	Inner_1RB_Right	1@49	3500.01	633334	23.09
19	Middle	30	20	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	3500.01	633334	23.03
20	Middle	30	20	DFT-s-OFDM QPSK	Outer_Full	50@0	3500.01	633334	22.05
21	Middle-5	30	10	DFT-s-OFDM QPSK	Inner_Full	12@6	3500.01	633334	22.90
22	Middle-5	30	15	DFT-s-OFDM QPSK	Inner_Full	18@9	3500.01	633334	23.02
23	Middle-5	30	40	DFT-s-OFDM QPSK	Inner_Full	50@25	3500.01	633334	23.05
24	Middle-5	30	50	DFT-s-OFDM QPSK	Inner_Full	64@32	3500.01	633334	22.89
25	Middle-5	30	60	DFT-s-OFDM QPSK	Inner_Full	81@40	3500.01	633334	22.97
26	Middle-5	30	80	DFT-s-OFDM QPSK	Inner_Full	108@54	3500.01	633334	22.89
27	Middle-5	30	90	DFT-s-OFDM QPSK	Inner_Full	120@60	3500.01	633334	23.05

N78L (Power Level B1)

No.	Test Freq Description	5G-n78							Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.	n78
1	High	30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3540	636000	10.75
2	Middle	30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3500.01	633334	10.79
3	Low	30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	3460.02	630668	10.74
4	High	30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3499.98	633332	10.71
5	Middle	30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3500.01	633334	10.70
6	Middle	30	20	DFT-s-OFDM P/2 BPSK1	Inner_Full	25@12	3500.01	633334	10.76
7	Middle	30	20	DFT-s-OFDM 16QAM	Inner_Full	25@12	3500.01	633334	10.76
8	Middle	30	20	DFT-s-OFDM 64QAM	Inner_Full	25@12	3500.01	633334	10.66
9	Middle	30	20	DFT-s-OFDM 256QAM	Inner_Full	25@12	3500.01	633334	10.69
10	Middle	30	20	CP-OFDM QPSK	Inner_Full	25@12	3500.01	633334	10.66
11	Middle	30	20	CP-OFDM 16QAM	Inner_Full	25@12	3500.01	633334	10.77
12	Middle	30	20	CP-OFDM 64QAM	Inner_Full	25@12	3500.01	633334	10.70
13	Middle	30	20	CP-OFDM 256QAM	Inner_Full	25@12	3500.01	633334	10.76
14	Middle	30	20	DFT-s-OFDM QPSK	Edge_1RB_Right	2@49	3500.01	633334	10.68
15	Middle	30	20	DFT-s-OFDM QPSK	Edge_1RB_Left	2@0	3500.01	633334	10.67
16	Middle	30	20	DFT-s-OFDM QPSK	Edge_Full_Right	1@50	3500.01	633334	10.71
17	Middle	30	20	DFT-s-OFDM QPSK	Edge_Full_Left	1@0	3500.01	633334	10.74
18	Middle	30	20	DFT-s-OFDM QPSK	Inner_1RB_Right	1@49	3500.01	633334	10.71
19	Middle	30	20	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	3500.01	633334	10.76
20	Middle	30	20	DFT-s-OFDM QPSK	Outer_Full	50@0	3500.01	633334	10.64
21	Middle-5	30	10	DFT-s-OFDM QPSK	Inner_Full	12@6	3500.01	633334	10.67
22	Middle-5	30	15	DFT-s-OFDM QPSK	Inner_Full	18@9	3500.01	633334	10.75
23	Middle-5	30	40	DFT-s-OFDM QPSK	Inner_Full	50@25	3500.01	633334	10.69
24	Middle-5	30	50	DFT-s-OFDM QPSK	Inner_Full	64@32	3500.01	633334	10.71
25	Middle-5	30	60	DFT-s-OFDM QPSK	Inner_Full	81@40	3500.01	633334	10.67
26	Middle-5	30	80	DFT-s-OFDM QPSK	Inner_Full	108@54	3500.01	633334	10.72
27	Middle-5	30	90	DFT-s-OFDM QPSK	Inner_Full	120@60	3500.01	633334	10.64

N78L (Power Level A1)

No.	Test Freq Description	5G-n78							Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.	n78
1	High	30	10	DFT-s-OFDM QPSK	Inner_Full	12@6	3795	653000	9.31
2	Middle	30	10	DFT-s-OFDM QPSK	Inner_Full	12@6	3750	650000	9.49
3	Low	30	10	DFT-s-OFDM QPSK	Inner_Full	12@6	3705	647000	9.38
4	Low/High	30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3750	650000	9.44
5	Middle-3	30	10	DFT-s-OFDM PI/2 BPSK1	Inner_Full	12@6	3750	650000	9.32
6	Middle-3	30	10	DFT-s-OFDM 16QAM	Inner_Full	12@6	3750	650000	9.41
7	Middle-3	30	10	DFT-s-OFDM 64QAM	Inner_Full	12@6	3750	650000	9.34
8	Middle-3	30	10	DFT-s-OFDM 256QAM	Inner_Full	12@6	3750	650000	9.42
9	Middle-3	30	10	CP-OFDM QPSK	Inner_Full	12@6	3750	650000	9.37
10	Middle-3	30	10	CP-OFDM 16QAM	Inner_Full	12@6	3750	650000	9.44
11	Middle-3	30	10	CP-OFDM 64QAM	Inner_Full	12@6	3750	650000	9.39
12	Middle-3	30	10	CP-OFDM 256QAM	Inner_Full	12@6	3750	650000	9.45
13	Middle-3	30	10	DFT-s-OFDM QPSK	Edge_1RB_Left	1@0	3750	650000	9.35
14	Middle-3	30	10	DFT-s-OFDM QPSK	Edge_1RB_Right	1@23	3750	650000	9.48
15	Middle-3	30	10	DFT-s-OFDM QPSK	Edge_Full_Right	2@22	3750	650000	9.41
16	Middle-3	30	10	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	3750	650000	9.42
17	Middle-3	30	10	DFT-s-OFDM QPSK	Inner_1RB_Right	1@22	3750	650000	9.31
18	Middle-3	30	10	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	3750	650000	9.35
19	Middle-3	30	10	DFT-s-OFDM QPSK	Outer_Full	24@0	3750	650000	9.42
20	Middle-1	30	10	DFT-s-OFDM QPSK	Inner_Full	12@6	3750	650000	9.46
21	Middle-1	30	15	DFT-s-OFDM QPSK	Inner_Full	18@9	3750	650000	9.34
22	Middle-1	30	40	DFT-s-OFDM QPSK	Inner_Full	50@25	3750	650000	9.47
23	Middle-1	30	50	DFT-s-OFDM QPSK	Inner_Full	64@32	3750	650000	9.46
24	Middle-1	30	60	DFT-s-OFDM QPSK	Inner_Full	81@40	3750	650000	9.43
25	Middle-1	30	80	DFT-s-OFDM QPSK	Inner_Full	108@54	3750	650000	9.43
26	Middle-1	30	90	DFT-s-OFDM QPSK	Inner_Full	120@60	3750	650000	9.45

N78H (Power Level A1)

No.	Test Freq Description	5G-n78							Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.	n78
1	High	30	10	DFT-s-OFDM QPSK	Inner_Full	12@6	3795	653000	23.23
2	Middle	30	10	DFT-s-OFDM QPSK	Inner_Full	12@6	3750	650000	23.25
3	Low	30	10	DFT-s-OFDM QPSK	Inner_Full	12@6	3705	647000	23.19
4	Low/High	30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3750	650000	23.21
5	Middle-3	30	10	DFT-s-OFDM PI/2 BPSK1	Inner_Full	12@6	3750	650000	23.11
6	Middle-3	30	10	DFT-s-OFDM 16QAM	Inner_Full	12@6	3750	650000	22.14
7	Middle-3	30	10	DFT-s-OFDM 64QAM	Inner_Full	12@6	3750	650000	20.71
8	Middle-3	30	10	DFT-s-OFDM 256QAM	Inner_Full	12@6	3750	650000	18.72
9	Middle-3	30	10	CP-OFDM QPSK	Inner_Full	12@6	3750	650000	21.48
10	Middle-3	30	10	CP-OFDM 16QAM	Inner_Full	12@6	3750	650000	21.08
11	Middle-3	30	10	CP-OFDM 64QAM	Inner_Full	12@6	3750	650000	19.65
12	Middle-3	30	10	CP-OFDM 256QAM	Inner_Full	12@6	3750	650000	16.59
13	Middle-3	30	10	DFT-s-OFDM QPSK	Edge_1RB_Left	1@0	3750	650000	22.02
14	Middle-3	30	10	DFT-s-OFDM QPSK	Edge_1RB_Right	1@23	3750	650000	22.05
15	Middle-3	30	10	DFT-s-OFDM QPSK	Edge_Full_Right	2@22	3750	650000	22.04
16	Middle-3	30	10	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	3750	650000	22.06
17	Middle-3	30	10	DFT-s-OFDM QPSK	Inner_1RB_Right	1@22	3750	650000	23.02
18	Middle-3	30	10	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	3750	650000	23.04
19	Middle-3	30	10	DFT-s-OFDM QPSK	Outer_Full	24@0	3750	650000	22.08
20	Middle-1	30	10	DFT-s-OFDM QPSK	Inner_Full	12@6	3750	650000	23.01
21	Middle-1	30	15	DFT-s-OFDM QPSK	Inner_Full	18@9	3750	650000	23.16
22	Middle-1	30	40	DFT-s-OFDM QPSK	Inner_Full	50@25	3750	650000	23.02
23	Middle-1	30	50	DFT-s-OFDM QPSK	Inner_Full	64@32	3750	650000	23.03
24	Middle-1	30	60	DFT-s-OFDM QPSK	Inner_Full	81@40	3750	650000	23.00
25	Middle-1	30	80	DFT-s-OFDM QPSK	Inner_Full	108@54	3750	650000	23.00
26	Middle-1	30	90	DFT-s-OFDM QPSK	Inner_Full	120@60	3750	650000	23.11

N78H (Power Level B1)

No.	Test Freq Description	5G-n78							Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.	n78
1	High	30	10	DFT-s-OFDM QPSK	Inner_Full	12@6	3795	653000	10.85
2	Middle	30	10	DFT-s-OFDM QPSK	Inner_Full	12@6	3750	650000	10.93
3	Low	30	10	DFT-s-OFDM QPSK	Inner_Full	12@6	3705	647000	10.72
4	Low/High	30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3750	650000	10.79
5	Middle-3	30	10	DFT-s-OFDM Pi/2 BPSK1	Inner_Full	12@6	3750	650000	10.87
6	Middle-3	30	10	DFT-s-OFDM 16QAM	Inner_Full	12@6	3750	650000	10.97
7	Middle-3	30	10	DFT-s-OFDM 64QAM	Inner_Full	12@6	3750	650000	10.93
8	Middle-3	30	10	DFT-s-OFDM 256QAM	Inner_Full	12@6	3750	650000	10.74
9	Middle-3	30	10	CP-OFDM QPSK	Inner_Full	12@6	3750	650000	10.98
10	Middle-3	30	10	CP-OFDM 16QAM	Inner_Full	12@6	3750	650000	10.80
11	Middle-3	30	10	CP-OFDM 64QAM	Inner_Full	12@6	3750	650000	10.82
12	Middle-3	30	10	CP-OFDM 256QAM	Inner_Full	12@6	3750	650000	10.76
13	Middle-3	30	10	DFT-s-OFDM QPSK	Edge_1RB_Left	1@0	3750	650000	10.88
14	Middle-3	30	10	DFT-s-OFDM QPSK	Edge_1RB_Right	1@23	3750	650000	10.79
15	Middle-3	30	10	DFT-s-OFDM QPSK	Edge_Full_Right	2@22	3750	650000	10.97
16	Middle-3	30	10	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	3750	650000	10.93
17	Middle-3	30	10	DFT-s-OFDM QPSK	Inner_1RB_Right	1@22	3750	650000	10.96
18	Middle-3	30	10	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	3750	650000	10.79
19	Middle-3	30	10	DFT-s-OFDM QPSK	Outer_Full	24@0	3750	650000	10.81
20	Middle-1	30	10	DFT-s-OFDM QPSK	Inner_Full	12@6	3750	650000	10.89
21	Middle-1	30	15	DFT-s-OFDM QPSK	Inner_Full	18@9	3750	650000	10.73
22	Middle-1	30	40	DFT-s-OFDM QPSK	Inner_Full	50@25	3750	650000	10.85
23	Middle-1	30	50	DFT-s-OFDM QPSK	Inner_Full	64@32	3750	650000	10.98
24	Middle-1	30	60	DFT-s-OFDM QPSK	Inner_Full	81@40	3750	650000	10.84
25	Middle-1	30	80	DFT-s-OFDM QPSK	Inner_Full	108@54	3750	650000	10.79
26	Middle-1	30	90	DFT-s-OFDM QPSK	Inner_Full	120@60	3750	650000	10.87

N78H (Power Level C1)

No.	Test Freq Description	5G-n78							Power Results (dBm)
		SCS (kHz)	NR BW (MHz)	Modulation	RB allocation		NR Test Freq. (MHz)	NR Test CH.	n78
1	High	30	10	DFT-s-OFDM QPSK	Inner_Full	12@6	3795	653000	9.31
2	Middle	30	10	DFT-s-OFDM QPSK	Inner_Full	12@6	3750	650000	9.49
3	Low	30	10	DFT-s-OFDM QPSK	Inner_Full	12@6	3705	647000	9.38
4	Low/High	30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	3750	650000	9.44
5	Middle-3	30	10	DFT-s-OFDM Pi/2 BPSK1	Inner_Full	12@6	3750	650000	9.32
6	Middle-3	30	10	DFT-s-OFDM 16QAM	Inner_Full	12@6	3750	650000	9.41
7	Middle-3	30	10	DFT-s-OFDM 64QAM	Inner_Full	12@6	3750	650000	9.34
8	Middle-3	30	10	DFT-s-OFDM 256QAM	Inner_Full	12@6	3750	650000	9.42
9	Middle-3	30	10	CP-OFDM QPSK	Inner_Full	12@6	3750	650000	9.37
10	Middle-3	30	10	CP-OFDM 16QAM	Inner_Full	12@6	3750	650000	9.44
11	Middle-3	30	10	CP-OFDM 64QAM	Inner_Full	12@6	3750	650000	9.39
12	Middle-3	30	10	CP-OFDM 256QAM	Inner_Full	12@6	3750	650000	9.45
13	Middle-3	30	10	DFT-s-OFDM QPSK	Edge_1RB_Left	1@0	3750	650000	9.35
14	Middle-3	30	10	DFT-s-OFDM QPSK	Edge_1RB_Right	1@23	3750	650000	9.48
15	Middle-3	30	10	DFT-s-OFDM QPSK	Edge_Full_Right	2@22	3750	650000	9.41
16	Middle-3	30	10	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	3750	650000	9.42
17	Middle-3	30	10	DFT-s-OFDM QPSK	Inner_1RB_Right	1@22	3750	650000	9.31
18	Middle-3	30	10	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	3750	650000	9.35
19	Middle-3	30	10	DFT-s-OFDM QPSK	Outer_Full	24@0	3750	650000	9.42
20	Middle-1	30	10	DFT-s-OFDM QPSK	Inner_Full	12@6	3750	650000	9.46
21	Middle-1	30	15	DFT-s-OFDM QPSK	Inner_Full	18@9	3750	650000	9.34
22	Middle-1	30	40	DFT-s-OFDM QPSK	Inner_Full	50@25	3750	650000	9.47
23	Middle-1	30	50	DFT-s-OFDM QPSK	Inner_Full	64@32	3750	650000	9.46
24	Middle-1	30	60	DFT-s-OFDM QPSK	Inner_Full	81@40	3750	650000	9.43
25	Middle-1	30	80	DFT-s-OFDM QPSK	Inner_Full	108@54	3750	650000	9.43
26	Middle-1	30	90	DFT-s-OFDM QPSK	Inner_Full	120@60	3750	650000	9.45

11.5 Wi-Fi and BT Measurement result

The maximum output power of BT antenna is 10dBm.

The maximum tune up of BT antenna is 11dBm.

WIFI2.4G(Sensor off)

2.4GHz			
FCC			
802.11b	Channel\data	1Mbps	Tune up
WLAN2450	11(2462MHz)	20.37	20.50
	6(2437(MHz)	20.48	20.50
	1(2412MHz)	20.44	20.50
802.11g	Channel\data	6Mbps	
WLAN2450	11(2462MHz)	16.56	18.00
	6(2437(MHz)	17.77	19.00
	1(2412MHz)	17.57	19.00
802.11n-20MHz	Channel\data	MCS0	
WLAN2450	11(2462MHz)	15.52	17.00
	6(2437(MHz)	16.73	18.00
	1(2412MHz)	16.45	18.00
802.11n-40MHz	Channel\data	MCS0	
WLAN2450	9(2452MHz)	14.82	16.00
	6(2437MHz)	16.76	18.00
	3(2422MHz)	16.58	17.00

WiFi2.4G(Sensor on)

FCC			
802.11b	Channel\data rate	1Mbps	tune up
WLAN2450	11(2462MHz)	15.20	15.50
	6(2437(MHz)	15.20	15.50
	1(2412MHz)	15.20	15.50
802.11g	Channel\data rate	6Mbps	
WLAN2450	11(2462MHz)	14.50	15.50
	6(2437(MHz)	14.81	15.50
	1(2412MHz)	14.53	15.50
802.11n-20MHz	Channel\data rate	MCS0	
WLAN2450	11(2462MHz)	14.38	15.50
	6(2437(MHz)	14.71	15.50
	1(2412MHz)	14.36	15.50
802.11n-40MHz	Channel\data rate	MCS0	
WLAN2450	9(2452MHz)	14.71	15.50
	6(2437MHz)	14.86	15.50
	3(2422MHz)	14.73	15.50

WiFi2.4G(Cellular on)

2.4GHz			
FCC			
802.11b	Channel\data	1Mbps	tune up
WLAN2450	11(2462MHz)	9.20	9.50
	6(2437(MHz)	9.22	9.50
	1(2412MHz)	9.04	9.50
802.11g	Channel\data	6Mbps	
WLAN2450	11(2462MHz)	8.85	9.50
	6(2437(MHz)	9.15	9.50
	1(2412MHz)	8.98	9.50
802.11n-20MHz	Channel\data	MCS0	
WLAN2450	11(2462MHz)	8.75	9.50
	6(2437(MHz)	8.99	9.50
	1(2412MHz)	8.81	9.50
802.11n-40MHz	Channel\data	MCS0	
WLAN2450	9(2452MHz)	9.03	9.50
	6(2437MHz)	9.11	9.50
	3(2422MHz)	9.02	9.50

WiFi5G (Sensor off)

802.11a(dBm)		
Channel\data rate	6Mbps	tune up
36(5180 MHz)	18.39	20.00
40(5200 MHz)	18.47	20.00
44(5220 MHz)	18.44	20.00
48(5240 MHz)	18.39	20.00
52(5260 MHz)	18.46	20.00
56(5280 MHz)	18.43	20.00
60(5300 MHz)	18.49	20.00
64(5320 MHz)	18.38	20.00
100(5500 MHz)	15.58	16.00
104(5520 MHz)	18.43	19.50
108(5540 MHz)	18.48	19.50
112(5560 MHz)	18.46	19.50
116(5580 MHz)	18.42	19.50
120(5600 MHz)	18.45	19.50
124(5620 MHz)	18.51	19.50
128(5640 MHz)	18.48	19.50
132(5660 MHz)	18.37	19.50
136(5680 MHz)	18.38	19.50
140(5700 MHz)	14.42	16.00
144(5720 MHz)	18.36	19.50
149(5745 MHz)	18.38	19.50
153(5765 MHz)	18.33	19.50
157(5785 MHz)	18.44	19.50
161(5805 MHz)	18.41	19.50
165(5825 MHz)	18.37	19.50

WiFi5G (Sensor on)

802.11ac(dBm)-80MHz		
Channel\data rate	MCS0	tuneup
42(5210 MHz)	7.52	9.00
58(5290 MHz)	7.71	9.00
106(5530 MHz)	7.59	9.00
122(5610 MHz)	7.63	9.00
138(5690 MHz)	7.48	9.00
155(5775 MHz)	7.35	9.00

WiFi5G (Cellular tx on)

802.11ac(dBm)-80MHz		
Channel\data rate	MCS0	TUNE UP
42(5210 MHz)	6.23	8.00
58(5290 MHz)	6.35	8.00
106(5530 MHz)	6.33	8.00
122(5610 MHz)	6.67	8.00
138(5690 MHz)	6.17	8.00
155(5775 MHz)	6.17	8.00

12 Simultaneous TX SAR Considerations

12.1 Transmit Antenna Separation Distances

The detail for transmit antenna separation distances is described in the additional document:

Appendix to test report No. 23T04Z80940-13

The photos of SAR test

12.2 SAR Measurement Positions

According to the KDB941225 D06 Hot Spot SAR, the edges with less than 2.5 cm distance to the antennas need to be tested for SAR.

SAR measurement positions						
Mode	Front	Rear	Left edge	Right edge	Top edge	Bottom edge
ANT0	No	Yes	No	Yes	Yes	No
ANT3	No	Yes	No	No	Yes	No
ANT5	No	Yes	No	No	Yes	No
ANT7	No	Yes	Yes	Yes	Yes	No

13 Evaluation of Simultaneous

WiFi	Rear Sensor on 1g (W/kg)	Left Edge Sensor on 1g (W/kg)	Right Edge Sensor on 1g (W/kg)	Bottom Edge Sensor on 1g (W/kg)	Top Edge Sensor on 1g (W/kg)	Rear Sensor Off 1g (W/kg)	Left Edge Sensor Off 1g (W/kg)	Right Edge Sensor Off 1g (W/kg)	Bottom Edge Sensor Off 1g (W/kg)	Top Edge Sensor Off 1g (W/kg)
WiFi 2.4G	0.18	0.02	0.03	0.01	0.08	0.01				0.02
WiFi 5G	0.29	0.04	0.07	0.01	0.20	0.04				0.04
BT										
Cellular	Rear Sensor on 1g (W/kg)	Left Edge Sensor on 1g (W/kg)	Right Edge Sensor on 1g (W/kg)	Bottom Edge Sensor on 1g (W/kg)	Top Edge Sensor on 1g (W/kg)	Rear Sensor Off 1g (W/kg)	Left Edge Sensor Off 1g (W/kg)	Right Edge Sensor Off 1g (W/kg)	Bottom Edge Sensor Off 1g (W/kg)	Top Edge Sensor Off 1g (W/kg)
GSM850 ANT0	0.51	0.03	0.13	0.03	0.20	0.26	0.04	0.08		0.16
GSM1900 ANT0	1.04		0.01		0.36	0.87				0.57
WCDMA1900 ANT2	0.002		0.003			1.06		1.26	0.09	
WCDMA1700 ANT2	1.18		0.88	0.04	0.02	0.001		0.003		
WCDMA850 ANT0	0.61	0.03	0.08		0.31	0.28	0.06	0.12		0.24
LTEB2 ANT2	1.17		1.24	0.13		0.028	0.004	0.001		0.055
LTEB5 ANT0	0.87	0.09	0.21	0.04	0.64	0.24	0.06	0.16		0.20
LTEB7 ANT3	1.18	0.04	0.05		1.14	0.26	0.03	0.03		0.28
LTEB12 ANT0	1.16		0.09	0.04	1.16	0.08		0.03		0.05
LTEB13 ANT0	1.14	0.07	0.11	0.05	1.02	0.14	0.04	0.09		0.13
LTEB48 ANT5	0.92	0.03	0.01		1.27	0.028	0.004	0.001		0.055
LTEB66 ANT2	1.28		0.90	0.03		0.077		0.107	0.004	
N2 ANT2	1.18		1.05	0.12		0.11				0.13
N5 ANT0	0.66		0.18		0.52	0.54		0.31		0.60
N66 ANT2	1.16		0.95	0.04		0.02				0.03
N77L ANT5	0.68				0.87	0.06				0.10
N77H ANT5	0.81				1.29	0.04				0.08
N78L ANT5	0.60				0.70	0.02				0.04
N78H ANT5	0.44				1.00	0.03				0.03

Cellular+WiFi 2.4G	Rear Sensor on 1g (W/kg)	Left Edge Sensor on 1g (W/kg)	Right Edge Sensor on 1g (W/kg)	Bottom Edge Sensor on 1g (W/kg)	Top Edge Sensor on 1g (W/kg)	Rear Sensor Off 1g (W/kg)	Left Edge Sensor Off 1g (W/kg)	Right Edge Sensor Off 1g (W/kg)	Bottom Edge Sensor Off 1g (W/kg)	Top Edge Sensor Off 1g (W/kg)
GSM850 ANT0	0.69	0.05	0.16	0.04	0.28	0.27	0.04	0.08	0.00	0.18
GSM1900 ANT0	1.22	0.02	0.04	0.01	0.44	0.88	0.00	0.00	0.00	0.59
WCDMA1900 ANT2	0.18	0.02	0.03	0.01	0.08	1.07	0.00	1.26	0.09	0.02
WCDMA1700 ANT2	1.36	0.02	0.91	0.05	0.10	0.01	0.00	0.00	0.00	0.02
WCDMA850 ANT0	0.79	0.05	0.11	0.01	0.39	0.29	0.06	0.12	0.00	0.26
LTEB2 ANT2	1.35	0.02	1.27	0.14	0.08	0.04	0.00	0.00	0.00	0.08
LTEB5 ANT0	1.05	0.11	0.24	0.05	0.72	0.25	0.06	0.16	0.00	0.22
LTEB7 ANT3	1.36	0.06	0.08	0.01	1.22	0.27	0.03	0.03	0.00	0.30
LTEB12 ANT0	1.34	0.02	0.12	0.05	1.24	0.09	0.00	0.03	0.00	0.07
LTEB13 ANT0	1.32	0.09	0.14	0.06	1.10	0.15	0.04	0.09	0.00	0.15
LTEB48 ANT5	1.10	0.05	0.04	0.01	1.35	0.04	0.00	0.00	0.00	0.08
LTEB66 ANT2	1.46	0.02	0.93	0.04	0.08	0.09	0.00	0.11	0.00	0.02
N2 ANT2	1.36	0.02	1.08	0.13	0.08	0.12	0.00	0.00	0.00	0.15
N5 ANT0	0.84	0.02	0.21	0.01	0.60	0.55	0.00	0.31	0.00	0.62
N66 ANT2	1.34	0.02	0.98	0.05	0.08	0.03	0.00	0.00	0.00	0.05
N77L ANT5	0.86	0.02	0.03	0.01	0.95	0.07	0.00	0.00	0.00	0.12
N77H ANT5	0.99	0.02	0.03	0.01	1.37	0.05	0.00	0.00	0.00	0.10
N78L ANT5	0.78	0.02	0.03	0.01	0.78	0.03	0.00	0.00	0.00	0.06
N78H ANT5	0.62	0.02	0.03	0.01	1.08	0.04	0.00	0.00	0.00	0.05

Cellular+WiFi 5G	Rear Sensor on 1g (W/kg)	Left Edge Sensor on 1g (W/kg)	Right Edge Sensor on 1g (W/kg)	Bottom Edge Sensor on 1g (W/kg)	Top Edge Sensor on 1g (W/kg)	Rear Sensor Off 1g (W/kg)	Left Edge Sensor Off 1g (W/kg)	Right Edge Sensor Off 1g (W/kg)	Bottom Edge Sensor Off 1g (W/kg)	Top Edge Sensor Off 1g (W/kg)
GSM850 ANT0	0.80	0.07	0.20	0.04	0.40	0.30	0.04	0.08	0.00	0.20
GSM1900 ANT0	1.33	0.04	0.08	0.01	0.56	0.91	0.00	0.00	0.00	0.61
WCDMA1900 ANT2	0.29	0.04	0.07	0.01	0.20	1.10	0.00	1.26	0.09	0.04
WCDMA1700 ANT2	1.47	0.04	0.95	0.05	0.22	0.04	0.00	0.00	0.00	0.04
WCDMA850 ANT0	0.90	0.07	0.15	0.01	0.51	0.32	0.06	0.12	0.00	0.28
LTEB2 ANT2	1.46	0.04	1.31	0.14	0.20	0.07	0.00	0.00	0.00	0.10
LTEB5 ANT0	1.16	0.13	0.28	0.05	0.84	0.28	0.06	0.16	0.00	0.24
LTEB7 ANT3	1.47	0.08	0.12	0.01	1.34	0.30	0.03	0.03	0.00	0.32
LTEB12 ANT0	1.45	0.04	0.16	0.05	1.36	0.12	0.00	0.03	0.00	0.09
LTEB13 ANT0	1.43	0.11	0.18	0.06	1.22	0.18	0.04	0.09	0.00	0.17
LTEB48 ANT5	1.21	0.07	0.08	0.01	1.47	0.07	0.00	0.00	0.00	0.10
LTEB66 ANT2	1.57	0.04	0.97	0.04	0.20	0.12	0.00	0.11	0.00	0.04
N2 ANT2	1.47	0.04	1.12	0.13	0.20	0.15	0.00	0.00	0.00	0.17
N5 ANT0	0.95	0.04	0.25	0.01	0.72	0.58	0.00	0.31	0.00	0.64
N66 ANT2	1.45	0.04	1.02	0.05	0.20	0.06	0.00	0.00	0.00	0.07
N77L ANT5	0.97	0.04	0.07	0.01	1.07	0.10	0.00	0.00	0.00	0.14
N77H ANT5	1.10	0.04	0.07	0.01	1.49	0.08	0.00	0.00	0.00	0.12
N78L ANT5	0.89	0.04	0.07	0.01	0.90	0.06	0.00	0.00	0.00	0.08
N78H ANT5	0.73	0.04	0.07	0.01	1.20	0.07	0.00	0.00	0.00	0.07



ENDC	Rear Sensor on 1g (W/kg)	Left Edge Sensor on 1g (W/kg)	Right Edge Sensor on 1g (W/kg)	Bottom Edge Sensor on 1g (W/kg)	Top Edge Sensor on 1g (W/kg)	Rear Sensor Off 1g (W/kg)	Left Edge Sensor Off 1g (W/kg)	Right Edge Sensor Off 1g (W/kg)	Bottom Edge Sensor Off 1g (W/kg)	Top Edge Sensor Off 1g (W/kg)
DC 13A_n2A	0.94	0.04	0.36	0.05	0.59	0.39	0.03	0.37	0.02	0.09
LTEB13 ANT0	0.65	0.04	0.06	0.03	0.59	0.10	0.03	0.07		0.09
N2 ANT2	0.29		0.30	0.02		0.29		0.30	0.02	
DC 5A_n2A	0.73	0.05	0.41	0.04	0.33	0.40	0.02	0.37	0.02	0.09
LTEB5 ANT0	0.44	0.05	0.11	0.02	0.33	0.11	0.02	0.07		0.09
N2 ANT2	0.29		0.30	0.02		0.29		0.30	0.02	
DC 66A_n2A	1.12	0.00	0.49	0.02	0.68	1.32	0.00	0.47	0.02	0.78
LTEB66 ANT2	0.55		0.43	0.02		0.55		0.43	0.02	
N2 ANT0	0.57		0.06		0.68	0.77		0.04		0.78
DC 2A_n5A	0.65	0.00	0.70	0.05	0.04	0.68	0.00	0.73	0.05	0.09
LTEB2 ANT2	0.60		0.69	0.05		0.60		0.69	0.05	
N5 ANT0	0.05		0.01		0.04	0.08		0.04		0.09
DC 66A_n5A	0.60	0.00	0.44	0.02	0.04	0.63	0.00	0.47	0.02	0.09
LTEB66 ANT2	0.55		0.43	0.02		0.55		0.43	0.02	
N5 ANT0	0.05		0.01		0.04	0.08		0.04		0.09
DC 13A_n66A	0.84	0.04	0.22	0.04	0.59	0.29	0.03	0.23	0.01	0.09
LTEB13 ANT0	0.65	0.04	0.06	0.03	0.59	0.10	0.03	0.07		0.09
N66 ANT2	0.19		0.16	0.01		0.19		0.16	0.01	
DC 5A_n66A	0.63	0.05	0.27	0.03	0.33	0.30	0.02	0.23	0.01	0.09
LTEB5 ANT0	0.44	0.05	0.11	0.02	0.33	0.11	0.02	0.07		0.09
N66 ANT2	0.19		0.16	0.01		0.19		0.16	0.01	
DC 2A_n66A	0.73	0.00	0.69	0.05	0.06	0.73	0.00	0.69	0.05	0.06
LTEB2 ANT2	0.60		0.69	0.05		0.60		0.69	0.05	
N66 ANT0	0.13				0.06	0.13				0.06
DC 2A_n66A	0.81	0.06	0.31	0.04	0.46	0.81	0.06	0.31	0.04	0.46
LTEB2 ANT0	0.62	0.06	0.15	0.03	0.46	0.62	0.06	0.15	0.03	0.46
N66 ANT2	0.19		0.16	0.01		0.19		0.16	0.01	
DC 7A_n66A	0.79	0.02	0.18	0.01	0.58	0.79	0.02	0.18	0.01	0.58
LTEB7 ANT3	0.60	0.02	0.02		0.58	0.60	0.02	0.02		0.58
N66 ANT2	0.19		0.16	0.01		0.19		0.16	0.01	
DC 7A_n66A	0.73	0.02	0.02	0.00	0.64	0.73	0.02	0.02	0.00	0.64
LTEB7 ANT3	0.60	0.02	0.02		0.58	0.60	0.02	0.02		0.58
N66 ANT0	0.13				0.06	0.13				0.06
DC 66A_n66A	0.68	0.00	0.43	0.02	0.06	0.68	0.00	0.43	0.02	0.06
LTEB66 ANT2	0.55		0.43	0.02		0.55		0.43	0.02	
N66 ANT0	0.13				0.06	0.13				0.06
DC 13A_n77A	1.03	0.04	0.06	0.03	1.19	0.48	0.03	0.07	0.00	0.69
LTEB13 ANT0	0.65	0.04	0.06	0.03	0.59	0.10	0.03	0.07		0.09
N77 ANT5	0.38				0.60	0.38				0.60
DC 2A_n77A	0.98	0.00	0.69	0.05	0.60	0.98	0.00	0.69	0.05	0.60
LTEB2 ANT2	0.60		0.69	0.05		0.60		0.69	0.05	
N77 ANT5	0.38				0.60	0.38				0.60
DC 5A_n77A	0.82	0.05	0.11	0.02	0.93	0.49	0.02	0.07	0.00	0.69
LTEB5 ANT0	0.44	0.05	0.11	0.02	0.33	0.11	0.02	0.07		0.09
N77 ANT5	0.38				0.60	0.38				0.60
DC 66A_n77A	0.93	0.00	0.43	0.02	0.60	0.93	0.00	0.43	0.02	0.60
LTEB66 ANT2	0.55		0.43	0.02		0.55		0.43	0.02	
N77 ANT5	0.38				0.60	0.38				0.60
DC 7A_n77A	0.98	0.02	0.02	0.00	1.18	0.98	0.02	0.02	0.00	1.18
LTEB7 ANT3	0.60	0.02	0.02		0.58	0.60	0.02	0.02		0.58
N77 ANT5	0.38				0.60	0.38				0.60
DC 5A_n78A	0.83	0.05	0.11	0.02	0.78	0.50	0.02	0.07	0.00	0.54
LTEB5 ANT0	0.44	0.05	0.11	0.02	0.33	0.11	0.02	0.07		0.09
N78 ANT5	0.39				0.45	0.39				0.45
DC 7A_n78A	0.99	0.02	0.02	0.00	1.03	0.60	0.02	0.02	0.00	0.58
LTEB7 ANT3	0.60	0.02	0.02		0.58	0.60	0.02	0.02		0.58
N78 ANT5	0.39				0.45	0.39				0.45
DC 13A_n77A	0.96	0.04	0.06	0.03	1.13	0.41	0.03	0.07	0.00	0.63
LTEB13 ANT0	0.65	0.04	0.06	0.03	0.59	0.10	0.03	0.07		0.09
N77 ANT5	0.31				0.54	0.31				0.54
DC 2A_n77A	0.91	0.00	0.69	0.05	0.54	0.91	0.00	0.69	0.05	0.54
LTEB2 ANT2	0.60		0.69	0.05		0.60		0.69	0.05	
N77 ANT5	0.31				0.54	0.31				0.54
DC 5A_n77A	0.75	0.05	0.11	0.02	0.87	0.42	0.02	0.07	0.00	0.63
LTEB5 ANT0	0.44	0.05	0.11	0.02	0.33	0.11	0.02	0.07		0.09
N77 ANT5	0.31				0.54	0.31				0.54
DC 66A_n77A	0.86	0.00	0.43	0.02	0.54	0.86	0.00	0.43	0.02	0.54
LTEB66 ANT2	0.55		0.43	0.02		0.55		0.43	0.02	
N77 ANT5	0.31				0.54	0.31				0.54
DC 7A_n77A	0.91	0.02	0.02	0.00	1.12	0.91	0.02	0.02	0.00	1.12
LTEB7 ANT3	0.60	0.02	0.02		0.58	0.60	0.02	0.02		0.58
N77 ANT5	0.31				0.54	0.31				0.54
DC 5A_n78A	0.82	0.05	0.11	0.02	0.84	0.49	0.02	0.07	0.00	0.60
LTEB5 ANT0	0.44	0.05	0.11	0.02	0.33	0.11	0.02	0.07		0.09
N78 ANT5	0.38				0.51	0.38				0.51
DC 7A_n78A	0.98	0.02	0.02	0.00	1.09	0.98	0.02	0.02	0.00	1.09
LTEB7 ANT3	0.60	0.02	0.02		0.58	0.60	0.02	0.02		0.58
N78 ANT5	0.38				0.51	0.38				0.51



ENDC+WiFi2.4G	Rear Sensor on 1g (W/kg)	Left Edge Sensor on 1g (W/kg)	Right Edge Sensor on 1g (W/kg)	Bottom Edge Sensor on 1g (W/kg)	Top Edge Sensor on 1g (W/kg)	Rear Sensor Off 1g (W/kg)	Left Edge Sensor Off 1g (W/kg)	Right Edge Sensor Off 1g (W/kg)	Bottom Edge Sensor Off 1g (W/kg)	Top Edge Sensor Off 1g (W/kg)
DC 13A n2A	1.12	0.06	0.39	0.06	0.67	0.41	0.03	0.37	0.02	0.11
DC 5A n2A	0.91	0.07	0.44	0.05	0.41	0.42	0.02	0.37	0.02	0.11
DC 66A n2A	1.30	0.02	0.52	0.03	0.76	1.34	0.00	0.47	0.02	0.80
DC 2A n5A	0.83	0.02	0.73	0.06	0.12	0.70	0.00	0.73	0.05	0.11
DC 66A n5A	0.78	0.02	0.47	0.03	0.12	0.65	0.00	0.47	0.02	0.11
DC 13A n66A	1.02	0.06	0.25	0.05	0.67	0.31	0.03	0.23	0.01	0.11
DC 5A n66A	0.81	0.07	0.30	0.04	0.41	0.32	0.02	0.23	0.01	0.11
DC 2A n66A	0.91	0.02	0.72	0.06	0.14	0.75	0.00	0.69	0.05	0.08
DC 2A n66A	0.99	0.08	0.34	0.05	0.54	0.83	0.06	0.31	0.04	0.48
DC 7A n66A	0.97	0.04	0.21	0.02	0.66	0.81	0.02	0.18	0.01	0.60
DC 7A n66A	0.91	0.04	0.05	0.01	0.72	0.75	0.02	0.02	0.00	0.66
DC 66A n66A	0.86	0.02	0.46	0.03	0.14	0.70	0.00	0.43	0.02	0.08
DC 13A n77A	1.21	0.06	0.09	0.04	1.27	0.50	0.03	0.07	0.00	0.71
DC 2A n77A	1.16	0.02	0.72	0.06	0.68	1.00	0.00	0.69	0.05	0.62
DC 5A n77A	1.00	0.07	0.14	0.03	1.01	0.51	0.02	0.07	0.00	0.71
DC 66A n77A	1.11	0.02	0.46	0.03	0.68	0.95	0.00	0.43	0.02	0.62
DC 7A n77A	1.16	0.04	0.05	0.01	1.26	1.00	0.02	0.02	0.00	1.20
DC 5A n78A	1.01	0.07	0.14	0.03	0.86	0.52	0.02	0.07	0.00	0.56
DC 7A n78A	1.17	0.04	0.05	0.01	1.11	0.62	0.02	0.02	0.00	0.60
DC 13A n77A	1.14	0.06	0.09	0.04	1.21	0.43	0.03	0.07	0.00	0.65
DC 2A n77A	1.09	0.02	0.72	0.06	0.62	0.93	0.00	0.69	0.05	0.56
DC 5A n77A	0.93	0.07	0.14	0.03	0.95	0.44	0.02	0.07	0.00	0.65
DC 66A n77A	1.04	0.02	0.46	0.03	0.62	0.88	0.00	0.43	0.02	0.56
DC 7A n77A	1.09	0.04	0.05	0.01	1.20	0.93	0.02	0.02	0.00	1.14
DC 5A n78A	1.00	0.07	0.14	0.03	0.92	0.51	0.02	0.07	0.00	0.62
DC 7A n78A	1.16	0.04	0.05	0.01	1.17	1.00	0.02	0.02	0.00	1.11

ENDC+WiFi5G	Rear Sensor on 1g (W/kg)	Left Edge Sensor on 1g (W/kg)	Right Edge Sensor on 1g (W/kg)	Bottom Edge Sensor on 1g (W/kg)	Top Edge Sensor on 1g (W/kg)	Rear Sensor Off 1g (W/kg)	Left Edge Sensor Off 1g (W/kg)	Right Edge Sensor Off 1g (W/kg)	Bottom Edge Sensor Off 1g (W/kg)	Top Edge Sensor Off 1g (W/kg)
DC 13A_n2A	1.23	0.07	0.43	0.05	0.80	0.43	0.03	0.37	0.02	0.13
DC 5A_n2A	1.02	0.08	0.48	0.04	0.54	0.44	0.02	0.37	0.02	0.13
DC 66A_n2A	1.41	0.03	0.56	0.02	0.89	1.36	0.00	0.47	0.02	0.82
DC 2A_n5A	0.94	0.03	0.77	0.05	0.25	0.72	0.00	0.73	0.05	0.13
DC 66A_n5A	0.89	0.03	0.51	0.02	0.25	0.67	0.00	0.47	0.02	0.13
DC 13A_n66A	1.13	0.07	0.29	0.04	0.80	0.33	0.03	0.23	0.01	0.13
DC 5A_n66A	0.92	0.08	0.34	0.03	0.54	0.34	0.02	0.23	0.01	0.13
DC 2A_n66A	1.02	0.03	0.76	0.05	0.27	0.77	0.00	0.69	0.05	0.10
DC 2A_n66A	1.10	0.09	0.38	0.04	0.67	0.85	0.06	0.31	0.04	0.50
DC 7A_n66A	1.08	0.05	0.25	0.01	0.79	0.83	0.02	0.18	0.01	0.62
DC 7A_n66A	1.02	0.05	0.09	0.00	0.85	0.77	0.02	0.02	0.00	0.68
DC 66A_n66A	0.97	0.03	0.50	0.02	0.27	0.72	0.00	0.43	0.02	0.10
DC 13A_n77A	1.32	0.07	0.13	0.03	1.40	0.52	0.03	0.07	0.00	0.73
DC 2A_n77A	1.27	0.03	0.76	0.05	0.81	1.02	0.00	0.69	0.05	0.64
DC 5A_n77A	1.11	0.08	0.18	0.02	1.14	0.53	0.02	0.07	0.00	0.73
DC 66A_n77A	1.22	0.03	0.50	0.02	0.81	0.97	0.00	0.43	0.02	0.64
DC 7A_n77A	1.27	0.05	0.09	0.00	1.39	1.02	0.02	0.02	0.00	1.22
DC 5A_n78A	1.12	0.08	0.18	0.02	0.99	0.54	0.02	0.07	0.00	0.58
DC 7A_n78A	1.28	0.05	0.09	0.00	1.24	0.64	0.02	0.02	0.00	0.62
DC 13A_n77A	1.25	0.07	0.13	0.03	1.34	0.45	0.03	0.07	0.00	0.67
DC 2A_n77A	1.20	0.03	0.76	0.05	0.75	0.95	0.00	0.69	0.05	0.58
DC 5A_n77A	1.04	0.08	0.18	0.02	1.08	0.46	0.02	0.07	0.00	0.67
DC 66A_n77A	1.15	0.03	0.50	0.02	0.75	0.90	0.00	0.43	0.02	0.58
DC 7A_n77A	1.20	0.05	0.09	0.00	1.33	0.95	0.02	0.02	0.00	1.16
DC 5A_n78A	1.11	0.08	0.18	0.02	1.05	0.53	0.02	0.07	0.00	0.64
DC 7A_n78A	1.27	0.05	0.09	0.00	1.30	1.02	0.02	0.02	0.00	1.13

ULCA	Rear Sensor on 1g (W/kg)	Left Edge Sensor on 1g (W/kg)	Right Edge Sensor on 1g (W/kg)	Bottom Edge Sensor on 1g (W/kg)	Top Edge Sensor on 1g (W/kg)	Rear Sensor Off 1g (W/kg)	Left Edge Sensor Off 1g (W/kg)	Right Edge Sensor Off 1g (W/kg)	Bottom Edge Sensor Off 1g (W/kg)	Top Edge Sensor Off 1g (W/kg)
CA_2A-4A	1.17	0.06	0.58	0.05	0.46	1.03	0.06	0.72	0.05	0.46
LTEB2 ANT0	0.62	0.06	0.15	0.03	0.46	0.62	0.06	0.15	0.03	0.46
LTEB4 ANT2	0.55		0.43	0.02		0.41		0.57	0.02	
CA_2A-66A	1.17	0.06	0.58	0.05	0.46	1.03	0.06	0.72	0.05	0.46
LTEB2 ANT0	0.62	0.06	0.15	0.03	0.46	0.62	0.06	0.15	0.03	0.46
LTEB66 ANT2	0.55		0.43	0.02		0.41		0.57	0.02	

14 SAR Test Result

It is determined by user manual for the distance between the EUT and the phantom bottom.

The distance is 10 mm and just applied to the condition of body worn accessory.

It is performed for all SAR measurements with area scan based 1-g SAR estimation (Fast SAR). A zoom scan measurement is added when the estimated 1-g SAR is the highest measured SAR in each exposure configuration, wireless mode and frequency band combination or more than 1.2W/kg.

The calculated SAR is obtained by the following formula:

$$\text{Reported SAR} = \text{Measured SAR} \times 10^{(P_{\text{Target}} - P_{\text{Measured}})/10}$$

Where P_{Target} is the power of manufacturing upper limit;

P_{Measured} is the measured power in chapter 11.

Table 14.1: Duty Cycle

Mode	Duty Cycle
WCDMA<E FDD	1:2
LTE TDD	1:1.58

14.1 SAR results for 3G/4G

RF Exposure Conditions	Frequency Band	Channel Number	Frequency (MHz)	Mode/RB	Test setup	Distance	Figure No.	EUT Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
Body	GSM850 ANT0	251	848.8	GPRS(4TX)	Rear	19mm	\\	28.81	29.00	0.162	0.17	0.080	0.08	0.20
Body	GSM850 ANT0	190	836.6	GPRS(4TX)	Rear	19mm	\\	28.97	29.00	0.188	0.19	0.096	0.10	0.00
Body	GSM850 ANT0	128	824.2	GPRS(4TX)	Rear	19mm	\\	28.88	29.00	0.250	0.26	0.124	0.13	0.24
Body	GSM850 ANT0	190	836.6	GPRS(4TX)	Left	19mm	\\	28.97	29.00	0.037	0.04	0.020	0.02	-0.25
Body	GSM850 ANT0	190	836.6	GPRS(4TX)	Right	19mm	\\	28.97	29.00	0.083	0.08	0.045	0.05	0.23
Body	GSM850 ANT0	190	836.6	GPRS(4TX)	Top	19mm	\\	28.97	29.00	0.158	0.16	0.071	0.07	0.16
Body	GSM850 ANT0	190	836.6	GPRS(4TX)	Bottom	19mm	\\	28.97	29.00	<0.01	<0.01	<0.01	<0.01	0.22
Body	GSM850 ANT0	251	848.8	GPRS(4TX)	Rear	0mm	\\	24.97	25.00	0.380	0.38	0.154	0.16	0.19
Body	GSM850 ANT0	190	836.6	GPRS(4TX)	Rear	0mm	\\	24.92	25.00	0.360	0.37	0.122	0.12	-0.16
Body	GSM850 ANT0	128	824.2	GPRS(4TX)	Rear	0mm	FIG A.1	24.92	25.00	0.496	0.51	0.190	0.19	0.28
Body	GSM850 ANT0	190	836.6	GPRS(4TX)	Left	0mm	\\	24.92	25.00	0.025	0.03	0.011	0.01	0.20
Body	GSM850 ANT0	190	836.6	GPRS(4TX)	Right	0mm	\\	24.92	25.00	0.132	0.13	0.056	0.06	-0.19
Body	GSM850 ANT0	190	836.6	GPRS(4TX)	Top	0mm	\\	24.92	25.00	0.196	0.20	0.069	0.07	0.15
Body	GSM850 ANT0	190	836.6	GPRS(4TX)	Bottom	0mm	\\	24.92	25.00	0.027	0.03	0.010	0.01	0.12
Body	GSM850 ANT0	128	824.2	EGPRS(4TX)	Rear	0mm	\\	24.86	25.00	0.471	0.49	0.181	0.19	0.11
RF Exposure Conditions	Frequency Band	Channel Number	Frequency (MHz)	Mode/RB	Test setup	Distance	Figure No.	EUT Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
Body	GSM1900 ANT0	810	1909.8	GPRS(4TX)	Rear	19mm	\\	25.99	26.00	0.517	0.52	0.278	0.28	-0.14
Body	GSM1900 ANT0	661	1880	GPRS(4TX)	Rear	19mm	\\	25.95	26.00	0.699	0.71	0.366	0.37	-0.23
Body	GSM1900 ANT0	512	1850.2	GPRS(4TX)	Rear	19mm	\\	25.98	26.00	0.865	0.87	0.470	0.47	0.28
Body	GSM1900 ANT0	661	1880	GPRS(4TX)	Left	19mm	\\	25.95	26.00	<0.01	<0.01	<0.01	<0.01	0.26
Body	GSM1900 ANT0	661	1880	GPRS(4TX)	Right	19mm	\\	25.95	26.00	<0.01	<0.01	<0.01	<0.01	0.15
Body	GSM1900 ANT0	661	1880	GPRS(4TX)	Top	19mm	\\	25.95	26.00	0.567	0.57	0.314	0.32	0.06
Body	GSM1900 ANT0	661	1880	GPRS(4TX)	Bottom	19mm	\\	25.95	26.00	0.000	0.00	0.000	0.00	0.14
Body	GSM1900 ANT0	810	1909.8	GPRS(4TX)	Rear	0mm	\\	19.90	20.00	0.994	1.02	0.392	0.40	-0.03
Body	GSM1900 ANT0	661	1880	GPRS(4TX)	Rear	0mm	FIG A.2	19.78	20.00	0.986	1.04	0.334	0.35	-0.19
Body	GSM1900 ANT0	512	1850.2	GPRS(4TX)	Rear	0mm	\\	19.91	20.00	0.833	0.85	0.313	0.32	0.29
Body	GSM1900 ANT0	661	1880	GPRS(4TX)	Left	0mm	\\	19.78	20.00	<0.01	<0.01	<0.01	<0.01	-0.09
Body	GSM1900 ANT0	661	1880	GPRS(4TX)	Right	0mm	\\	19.78	20.00	0.012	0.01	0.006	0.01	-0.10
Body	GSM1900 ANT0	661	1880	GPRS(4TX)	Top	0mm	\\	19.78	20.00	0.341	0.36	0.134	0.14	0.07
Body	GSM1900 ANT0	661	1880	GPRS(4TX)	Bottom	0mm	\\	19.78	20.00	<0.01	<0.01	<0.01	<0.01	0.10
Body	GSM1900 ANT0	661	1880	EGPRS(4TX)	Rear	0mm	\\	19.94	20.00	0.981	0.99	0.320	0.32	0.13
RF Exposure Conditions	Frequency Band	Channel Number	Frequency (MHz)	Mode/RB	Test setup	Distance	Figure No.	EUT Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
Body	WCDMA 1900 ANT2	9400	1880	RMC	Rear	29mm	\\	23.06	24.00	0.351	0.44	0.195	0.24	-0.11
Body	WCDMA 1900 ANT2	9400	1880	RMC	Left	29mm	\\	23.06	24.00	<0.01	<0.01	<0.01	<0.01	0.25
Body	WCDMA 1900 ANT2	9538	1907.6	RMC	Right	29mm	\\	22.92	24.00	0.252	0.32	0.145	0.19	0.21
Body	WCDMA 1900 ANT2	9400	1880	RMC	Right	29mm	\\	23.06	24.00	0.346	0.43	0.197	0.24	0.04
Body	WCDMA 1900 ANT2	9262	1852.4	RMC	Right	29mm	\\	22.96	24.00	0.415	0.53	0.237	0.30	0.23
Body	WCDMA 1900 ANT2	9400	1880	RMC	Top	29mm	\\	23.06	24.00	<0.01	<0.01	<0.01	<0.01	0.08
Body	WCDMA 1900 ANT2	9400	1880	RMC	Bottom	29mm	\\	23.06	24.00	<0.01	<0.01	<0.01	<0.01	-0.02
Body	WCDMA 1900 ANT2	9400	1880	RMC	Rear	0mm	\\	14.10	15.00	0.87	1.06	0.351	0.43	0.18
Body	WCDMA 1900 ANT2	9400	1880	RMC	Left	0mm	\\	14.10	15.00	<0.01	<0.01	<0.01	<0.01	0.10
Body	WCDMA 1900 ANT2	9538	1907.6	RMC	Right	0mm	\\	13.90	15.00	0.73	0.94	0.317	0.41	0.08
Body	WCDMA 1900 ANT2	9400	1880	RMC	Right	0mm	\\	14.10	15.00	0.88	1.09	0.371	0.46	-0.02
Body	WCDMA 1900 ANT2	9262	1852.4	RMC	Right	0mm	FIG A.3	14.00	15.00	1.00	1.26	0.421	0.53	-0.21
Body	WCDMA 1900 ANT2	9400	1880	RMC	Top	0mm	\\	14.10	15.00	<0.01	<0.01	<0.01	<0.01	0.14
Body	WCDMA 1900 ANT2	9400	1880	RMC	Bottom	0mm	\\	14.10	15.00	0.074	0.09	0.036	0.04	-0.12
RF Exposure Conditions	Frequency Band	Channel Number	Frequency (MHz)	Mode/RB	Test setup	Distance	Figure No.	EUT Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
Body	WCDMA 1700 ANT2	1412	1732.4	RMC	Rear	29mm	\\	22.98	24.00	0.598	0.76	0.340	0.43	0.15
Body	WCDMA 1700 ANT2	1412	1732.4	RMC	Left	29mm	\\	22.98	24.00	<0.01	<0.01	<0.01	<0.01	0.01
Body	WCDMA 1700 ANT2	1312	1712.4	RMC	Right	29mm	\\	23.01	24.00	0.752	0.94	0.412	0.52	-0.02
Body	WCDMA 1700 ANT2	1412	1732.4	RMC	Right	29mm	\\	22.98	24.00	0.788	1.00	0.438	0.55	-0.24
Body	WCDMA 1700 ANT2	1513	1752.6	RMC	Right	29mm	\\	23.06	24.00	0.750	0.93	0.411	0.51	-0.05
Body	WCDMA 1700 ANT2	1412	1732.4	RMC	Top	29mm	\\	22.98	24.00	<0.01	<0.01	<0.01	<0.01	0.09
Body	WCDMA 1700 ANT2	1412	1732.4	RMC	Bottom	29mm	\\	22.98	24.00	0.032	0.04	0.022	0.03	-0.19
Body	WCDMA 1700 ANT2	1513	1752.6	RMC	Rear	0mm	\\	14.10	15.00	0.913	1.12	0.366	0.45	0.15
Body	WCDMA 1700 ANT2	1412	1732.4	RMC	Rear	0mm	\\	14.13	15.00	0.957	1.17	0.380	0.46	0.14
Body	WCDMA 1700 ANT2	1312	1712.4	RMC	Rear	0mm	\\	14.00	15.00	0.938	1.18	0.374	0.47	-0.27
Body	WCDMA 1700 ANT2	1412	1732.4	RMC	Left	0mm	\\	14.13	15.00	<0.01	<0.01	<0.01	<0.01	0.29
Body	WCDMA 1700 ANT2	1412	1732.4	RMC	Right	0mm	\\	14.13	15.00	0.724	0.88	0.289	0.35	0.27
Body	WCDMA 1700 ANT2	1412	1732.4	RMC	Top	0mm	\\	14.13	15.00	0.013	0.02	0.004	0.00	0.00
Body	WCDMA 1700 ANT2	1412	1732.4	RMC	Bottom	0mm	\\	14.13	15.00	0.030	0.04	0.015	0.02	0.15
RF Exposure Conditions	Frequency Band	Channel Number	Frequency (MHz)	Mode/RB	Test setup	Distance	Figure No.	EUT Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
Body	WCDMA 850 ANT0	4233	846.6	RMC	Rear	14mm	\\	23.04	24.00	0.223	0.28	0.126	0.16	0.11
Body	WCDMA 850 ANT0	4183	836.6	RMC	Rear	14mm	\\	22.93	24.00	0.214	0.27	0.116	0.15	0.12
Body	WCDMA 850 ANT0	4132	826.4	RMC	Rear	14mm	\\	23.73	24.00	0.221	0.24	0.116	0.12	-0.07
Body	WCDMA 850 ANT0	4183	836.6	RMC	Left	14mm	\\	22.93	24.00	0.049	0.06	0.029	0.04	-0.14
Body	WCDMA 850 ANT0	4183	836.6	RMC	Right	14mm	\\	22.93	24.00	0.097	0.12	0.058	0.07	-0.17
Body	WCDMA 850 ANT0	4183	836.6	RMC	Top	14mm	\\	22.93	24.00	0.185	0.24	0.086	0.11	-0.08
Body	WCDMA 850 ANT0	4183	836.6	RMC	Bottom	14mm	\\	22.93	24.00	<0.01	<0.01	<0.01	<0.01	0.04
Body	WCDMA 850 ANT0	4132	826.4	RMC	Rear	0mm	\\	21.60	22.00	0.522	0.57	0.184	0.20	0.11
Body	WCDMA 850 ANT0	4233	846.6	RMC	Rear	0mm	\\	21.54	22.00	0.514	0.57	0.194	0.22	-0.21
Body	WCDMA 850 ANT0	4183	836.6	RMC	Rear	0mm	\\	21.43	22.00	0.535	0.61	0.205	0.23	0.17
Body	WCDMA 850 ANT0	4183	836.6	RMC	Left	0mm	\\	21.43	22.00	0.023	0.03	0.011	0.01	0.05
Body	WCDMA 850 ANT0	4183	836.6	RMC	Right	0mm	\\	21.43	22.00	0.069	0.08	0.033	0.04	-0.17
Body	WCDMA 850 ANT0	4183	836.6	RMC	Top	0mm	\\	21.43	22.00	0.274	0.31	0.091	0.10	-0.10
Body	WCDMA 850 ANT0	4183	836.6	RMC	Bottom	0mm	\\	21.43	22.00	<0.01	<0.01	<0.01	<0.01	0.12

RF Exposure Conditions	Frequency Band	Channel Number	Frequency (MHz)	Mode/RB	Test setup	Distance	Figure No.	EUT Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
Body	LTE Band2 ANT2	18900	1880	1RB-Middle	Rear	29mm	\	22.92	24.00	0.536	0.69	0.299	0.38	0.24
Body	LTE Band2 ANT2	18900	1880	1RB-Middle	Left	29mm	\	22.92	24.00	<0.01	<0.01	<0.01	<0.01	-0.07
Body	LTE Band2 ANT2	18900	1880	1RB-Middle	Right	29mm	\	22.92	24.00	0.494	0.63	0.291	0.37	0.07
Body	LTE Band2 ANT2	18900	1880	1RB-Middle	Top	29mm	\	22.92	24.00	<0.01	<0.01	<0.01	<0.01	0.08
Body	LTE Band2 ANT2	18900	1880	1RB-Middle	Bottom	29mm	\	22.92	24.00	0.040	0.05	0.027	0.03	-0.21
Body	LTE Band2 ANT2	19100	1900	50RB-Low	Rear	29mm	\	21.86	23.00	0.434	0.56	0.246	0.32	-0.20
Body	LTE Band2 ANT2	19100	1900	50RB-Low	Left	29mm	\	21.86	23.00	<0.01	<0.01	<0.01	<0.01	-0.16
Body	LTE Band2 ANT2	19100	1900	50RB-Low	Right	29mm	\	21.86	23.00	0.431	0.56	0.251	0.33	0.29
Body	LTE Band2 ANT2	19100	1900	50RB-Low	Top	29mm	\	21.86	23.00	<0.01	<0.01	<0.01	<0.01	0.16
Body	LTE Band2 ANT2	19100	1900	50RB-Low	Bottom	29mm	\	21.86	23.00	0.027	0.04	0.019	0.02	-0.14
Body	LTE Band2 ANT2	18900	1880	1RB-Middle	Rear	0mm	\	12.75	14.00	0.874	1.17	0.356	0.47	-0.15
Body	LTE Band2 ANT2	18900	1880	1RB-Middle	Left	0mm	\	12.75	14.00	<0.01	<0.01	<0.01	<0.01	0.22
Body	LTE Band2 ANT2	18900	1880	1RB-Middle	Right	0mm	FIG A.6	12.75	14.00	0.93	1.24	0.383	0.51	0.03
Body	LTE Band2 ANT2	18900	1880	1RB-Middle	Top	0mm	\	12.75	14.00	<0.01	<0.01	<0.01	<0.01	0.06
Body	LTE Band2 ANT2	18900	1880	1RB-Middle	Bottom	0mm	\	12.75	14.00	0.095	0.13	0.045	0.06	0.19
Body	LTE Band2 ANT2	19100	1900	50RB-Low	Rear	0mm	\	12.87	14.00	0.62	0.80	0.271	0.35	-0.14
Body	LTE Band2 ANT2	18900	1880	50RB-Low	Left	0mm	\	12.87	14.00	<0.01	<0.01	<0.01	<0.01	-0.14
Body	LTE Band2 ANT2	18900	1880	50RB-Low	Right	0mm	\	12.87	14.00	0.72	0.94	0.321	0.42	0.22
Body	LTE Band2 ANT2	18900	1880	50RB-Low	Top	0mm	\	12.87	14.00	<0.01	<0.01	<0.01	<0.01	-0.02
Body	LTE Band2 ANT2	18900	1880	50RB-Low	Bottom	0mm	\	12.87	14.00	0.083	0.11	0.039	0.05	0.06
RF Exposure Conditions	Frequency Band	Channel Number	Frequency (MHz)	Mode/RB	Test setup	Distance	Figure No.	EUT Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
Body	LTE Band5 ANT0	20525	836.5	1RB-Middle	Rear	19mm	\	23.01	24.00	0.194	0.24	0.087	0.11	0.09
Body	LTE Band5 ANT0	20525	836.5	1RB-Middle	Left	19mm	\	23.01	24.00	0.045	0.06	0.022	0.03	0.23
Body	LTE Band5 ANT0	20525	836.5	1RB-Middle	Right	19mm	\	23.01	24.00	0.124	0.16	0.060	0.08	-0.02
Body	LTE Band5 ANT0	20525	836.5	1RB-Middle	Top	19mm	\	23.01	24.00	0.163	0.20	0.068	0.09	0.19
Body	LTE Band5 ANT0	20525	836.5	1RB-Middle	Bottom	19mm	\	23.01	24.00	<0.01	<0.01	<0.01	<0.01	-0.05
Body	LTE Band5 ANT0	20525	836.5	25RB-Low	Rear	19mm	\	22.03	23.00	0.139	0.17	0.063	0.08	0.12
Body	LTE Band5 ANT0	20525	836.5	25RB-Low	Left	19mm	\	22.03	23.00	0.043	0.05	0.021	0.03	0.16
Body	LTE Band5 ANT0	20525	836.5	25RB-Low	Right	19mm	\	22.03	23.00	0.110	0.14	0.045	0.06	-0.04
Body	LTE Band5 ANT0	20525	836.5	25RB-Low	Top	19mm	\	22.03	23.00	0.123	0.15	0.048	0.06	-0.12
Body	LTE Band5 ANT0	20525	836.5	25RB-Low	Bottom	19mm	\	22.03	23.00	<0.01	<0.01	<0.01	<0.01	0.26
Body	LTE Band5 ANT0	20600	844	1RB-High	Rear	0mm	FIG A.7	21.66	22.00	0.806	0.87	0.277	0.30	0.29
Body	LTE Band5 ANT0	20600	844	1RB-High	Left	0mm	\	21.66	22.00	0.085	0.09	0.036	0.04	0.20
Body	LTE Band5 ANT0	20600	844	1RB-High	Right	0mm	\	21.66	22.00	0.195	0.21	0.064	0.07	-0.27
Body	LTE Band5 ANT0	20600	844	1RB-High	Top	0mm	\	21.66	22.00	0.596	0.64	0.196	0.21	-0.23
Body	LTE Band5 ANT0	20600	844	1RB-High	Bottom	0mm	\	21.66	22.00	0.041	0.04	0.013	0.01	0.14
Body	LTE Band5 ANT0	20525	836.5	25RB-Low	Rear	0mm	\	20.80	21.00	0.702	0.74	0.229	0.24	-0.29
Body	LTE Band5 ANT0	20525	836.5	25RB-Low	Left	0mm	\	20.80	21.00	0.077	0.08	0.032	0.03	0.12
Body	LTE Band5 ANT0	20525	836.5	25RB-Low	Right	0mm	\	20.80	21.00	0.156	0.16	0.059	0.06	-0.22
Body	LTE Band5 ANT0	20525	836.5	25RB-Low	Top	0mm	\	20.80	21.00	0.551	0.58	0.164	0.17	0.11
Body	LTE Band5 ANT0	20525	836.5	25RB-Low	Bottom	0mm	\	20.80	21.00	<0.01	<0.01	<0.01	<0.01	0.03



RF Exposure Conditions	Frequency Band	Channel Number	Frequency (MHz)	Mode/RB	Test setup	Distance	Figure No.	EUT Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
Body	LTE Band7 ANT3	21100	2535	1RB-Low	Rear	14mm	\	23.14	24.00	0.215	0.26	0.124	0.15	-0.23
Body	LTE Band7 ANT3	21100	2535	1RB-Low	Left	14mm	\	23.14	24.00	0.023	0.03	0.014	0.02	0.30
Body	LTE Band7 ANT3	21100	2535	1RB-Low	Right	14mm	\	23.14	24.00	0.025	0.03	0.015	0.02	0.12
Body	LTE Band7 ANT3	21100	2535	1RB-Low	Top	14mm	\	23.14	24.00	0.227	0.28	0.113	0.14	0.12
Body	LTE Band7 ANT3	21100	2535	1RB-Low	Bottom	14mm	\	23.14	24.00	<0.01	<0.01	<0.01	<0.01	0.20
Body	LTE Band7 ANT3	21100	2535	50RB-Low	Rear	14mm	\	22.14	23.00	0.155	0.19	0.089	0.11	-0.13
Body	LTE Band7 ANT3	21100	2535	50RB-Low	Left	14mm	\	22.14	23.00	<0.01	<0.01	<0.01	<0.01	-0.30
Body	LTE Band7 ANT3	21100	2535	50RB-Low	Right	14mm	\	22.14	23.00	0.019	0.02	0.012	0.01	0.05
Body	LTE Band7 ANT3	21100	2535	50RB-Low	Top	14mm	\	22.14	23.00	0.172	0.21	0.086	0.10	0.15
Body	LTE Band7 ANT3	21100	2535	50RB-Low	Bottom	14mm	\	22.14	23.00	<0.01	<0.01	<0.01	<0.01	0.23
Body	LTE Band7 ANT3	21100	2535	1RB-Low	Rear	0mm	FIG A.8	14.62	15.00	1.080	1.18	0.401	0.44	0.10
Body	LTE Band7 ANT3	21100	2535	1RB-Low	Left	0mm	\	14.62	15.00	0.041	0.04	0.015	0.02	-0.14
Body	LTE Band7 ANT3	21100	2535	1RB-Low	Right	0mm	\	14.62	15.00	0.045	0.05	0.017	0.02	-0.10
Body	LTE Band7 ANT3	21100	2535	1RB-Low	Top	0mm	\	14.62	15.00	1.044	1.14	0.325	0.35	-0.04
Body	LTE Band7 ANT3	21100	2535	1RB-Low	Bottom	0mm	\	14.62	15.00	<0.01	<0.01	<0.01	<0.01	0.00
Body	LTE Band7 ANT3	21100	2535	50RB-Low	Rear	0mm	\	14.09	15.00	0.863	1.06	0.320	0.39	0.27
Body	LTE Band7 ANT3	21100	2535	50RB-Low	Left	0mm	\	14.09	15.00	0.032	0.04	0.013	0.02	0.01
Body	LTE Band7 ANT3	21100	2535	50RB-Low	Right	0mm	\	14.09	15.00	0.036	0.04	0.013	0.02	-0.28
Body	LTE Band7 ANT3	21100	2535	50RB-Low	Top	0mm	\	14.09	15.00	0.764	0.94	0.256	0.32	-0.24
Body	LTE Band7 ANT3	21100	2535	50RB-Low	Bottom	0mm	\	14.09	15.00	<0.01	<0.01	<0.01	<0.01	0.27
RF Exposure Conditions	Frequency Band	Channel Number	Frequency (MHz)	Mode/RB	Test setup	Distance	Figure No.	EUT Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
Body	LTE Band12 ANT0	23095	707.5	1RB-Low	Rear	19mm	\	23.27	24.00	0.071	0.08	0.049	0.06	-0.10
Body	LTE Band12 ANT0	23095	707.5	1RB-Low	Left	19mm	\	23.27	24.00	<0.01	<0.01	<0.01	<0.01	-0.07
Body	LTE Band12 ANT0	23095	707.5	1RB-Low	Right	19mm	\	23.27	24.00	0.028	0.03	0.019	0.02	0.12
Body	LTE Band12 ANT0	23095	707.5	1RB-Low	Top	19mm	\	23.27	24.00	0.039	0.05	0.023	0.03	0.16
Body	LTE Band12 ANT0	23095	707.5	1RB-Low	Bottom	19mm	\	23.27	24.00	<0.01	<0.01	<0.01	<0.01	0.10
Body	LTE Band12 ANT0	23095	707.5	25RB-Low	Rear	19mm	\	22.26	23.00	0.060	0.07	0.040	0.05	-0.20
Body	LTE Band12 ANT0	23095	707.5	25RB-Low	Left	19mm	\	22.26	23.00	<0.01	<0.01	<0.01	<0.01	0.25
Body	LTE Band12 ANT0	23095	707.5	25RB-Low	Right	19mm	\	22.26	23.00	0.035	0.04	0.023	0.03	0.25
Body	LTE Band12 ANT0	23095	707.5	25RB-Low	Top	19mm	\	22.26	23.00	0.037	0.04	0.021	0.02	-0.02
Body	LTE Band12 ANT0	23095	707.5	25RB-Low	Bottom	19mm	\	22.26	23.00	<0.01	<0.01	<0.01	<0.01	0.23
Body	LTE Band12 ANT0	23095	707.5	1RB-Low	Rear	0mm	FIG A.9	19.54	20.00	1.010	1.12	0.429	0.48	-0.19
Body	LTE Band12 ANT0	23095	707.5	1RB-Low	Left	0mm	\	19.54	20.00	0.030	0.03	0.015	0.02	0.15
Body	LTE Band12 ANT0	23095	707.5	1RB-Low	Right	0mm	\	19.54	20.00	0.068	0.08	0.036	0.04	0.24
Body	LTE Band12 ANT0	23095	707.5	1RB-Low	Top	0mm	\	19.54	20.00	0.741	0.82	0.309	0.34	0.10
Body	LTE Band12 ANT0	23095	707.5	1RB-Low	Bottom	0mm	\	19.54	20.00	<0.01	<0.01	<0.01	<0.01	0.28
Body	LTE Band12 ANT0	23095	707.5	25RB-Low	Rear	0mm	\	18.74	20.00	0.866	1.16	0.366	0.49	0.16
Body	LTE Band12 ANT0	23095	707.5	25RB-Low	Left	0mm	\	18.74	20.00	<0.01	<0.01	<0.01	<0.01	-0.16
Body	LTE Band12 ANT0	23095	707.5	25RB-Low	Right	0mm	\	18.74	20.00	0.070	0.09	0.036	0.05	-0.05
Body	LTE Band12 ANT0	23095	707.5	25RB-Low	Top	0mm	\	18.74	20.00	0.866	1.16	0.309	0.41	0.13
Body	LTE Band12 ANT0	23095	707.5	25RB-Low	Bottom	0mm	\	18.74	20.00	0.028	0.04	0.012	0.02	-0.02
RF Exposure Conditions	Frequency Band	Channel Number	Frequency (MHz)	Mode/RB	Test setup	Distance	Figure No.	EUT Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
Body	LTE Band13 ANT0	23230	782	1RB-Low	Rear	19mm	\	23.18	24.00	0.119	0.14	0.082	0.10	-0.29
Body	LTE Band13 ANT0	23230	782	1RB-Low	Left	19mm	\	23.18	24.00	0.030	0.04	0.020	0.02	-0.12
Body	LTE Band13 ANT0	23230	782	1RB-Low	Right	19mm	\	23.18	24.00	0.076	0.09	0.050	0.06	0.08
Body	LTE Band13 ANT0	23230	782	1RB-Low	Top	19mm	\	23.18	24.00	0.106	0.13	0.058	0.07	0.07
Body	LTE Band13 ANT0	23230	782	1RB-Low	Bottom	19mm	\	23.18	24.00	<0.01	<0.01	<0.01	<0.01	-0.09
Body	LTE Band13 ANT0	23230	782	25RB-High	Rear	19mm	\	22.03	23.00	0.096	0.12	0.066	0.08	-0.06
Body	LTE Band13 ANT0	23230	782	25RB-High	Left	19mm	\	22.03	23.00	<0.01	<0.01	<0.01	<0.01	-0.08
Body	LTE Band13 ANT0	23230	782	25RB-High	Right	19mm	\	22.03	23.00	0.060	0.08	0.040	0.05	0.19
Body	LTE Band13 ANT0	23230	782	25RB-High	Top	19mm	\	22.03	23.00	0.091	0.11	0.050	0.06	-0.10
Body	LTE Band13 ANT0	23230	782	25RB-High	Bottom	19mm	\	22.03	23.00	<0.01	<0.01	<0.01	<0.01	0.19
Body	LTE Band13 ANT0	23230	782	1RB-Low	Rear	0mm	FIG A.10	18.97	20	0.897	1.14	0.356	0.45	-0.03
Body	LTE Band13 ANT0	23230	782	1RB-Low	Left	0mm	\	18.97	20	0.054	0.07	0.022	0.03	-0.22
Body	LTE Band13 ANT0	23230	782	1RB-Low	Right	0mm	\	18.97	20	0.088	0.11	0.040	0.05	0.12
Body	LTE Band13 ANT0	23230	782	1RB-Low	Top	0mm	\	18.97	20	0.805	1.02	0.293	0.37	0.26
Body	LTE Band13 ANT0	23230	782	1RB-Low	Bottom	0mm	\	18.97	20	0.041	0.05	0.013	0.02	-0.20
Body	LTE Band13 ANT0	23230	782	25RB-High	Rear	0mm	\	18.89	20	0.727	0.94	0.294	0.38	-0.04
Body	LTE Band13 ANT0	23230	782	25RB-High	Left	0mm	\	18.89	20	0.035	0.05	0.016	0.02	-0.12
Body	LTE Band13 ANT0	23230	782	25RB-High	Right	0mm	\	18.89	20	0.082	0.11	0.034	0.04	-0.17
Body	LTE Band13 ANT0	23230	782	25RB-High	Top	0mm	\	18.89	20	0.672	0.87	0.243	0.31	0.05
Body	LTE Band13 ANT0	23230	782	25RB-High	Bottom	0mm	\	18.89	20	<0.01	<0.01	<0.01	<0.01	0.26

RF Exposure Conditions	Frequency Band	Channel Number	Frequency (MHz)	Mode/RB	Test setup	Distance	Figure No.	EUT Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
Body	LTE Band48 ANT5	55340	3560	1RB-High	Rear	34mm	\	22.97	24.00	0.310	0.39	0.161	0.20	-0.01
Body	LTE Band48 ANT5	55340	3560	1RB-High	Left	34mm	\	22.97	24.00	0.043	0.05	0.025	0.03	0.27
Body	LTE Band48 ANT5	55340	3560	1RB-High	Right	34mm	\	22.97	24.00	0.017	0.02	0.005	0.01	-0.04
Body	LTE Band48 ANT5	55340	3560	1RB-High	Top	29mm	\	22.97	24.00	0.609	0.77	0.300	0.38	-0.10
Body	LTE Band48 ANT5	55340	3560	1RB-High	Bottom	34mm	\	22.97	24.00	<0.01	<0.01	<0.01	<0.01	0.03
Body	LTE Band48 ANT5	55340	3560	50RB-Middle	Rear	34mm	\	21.94	23.00	0.278	0.35	0.138	0.18	0.02
Body	LTE Band48 ANT5	55340	3560	50RB-Middle	Left	34mm	\	21.94	23.00	0.038	0.05	0.022	0.03	0.02
Body	LTE Band48 ANT5	55340	3560	50RB-Middle	Right	34mm	\	21.94	23.00	<0.01	<0.01	<0.01	<0.01	0.00
Body	LTE Band48 ANT5	55340	3560	50RB-Middle	Top	29mm	\	21.94	23.00	0.464	0.59	0.235	0.30	-0.02
Body	LTE Band48 ANT5	55340	3560	50RB-Middle	Bottom	34mm	\	21.94	23.00	<0.01	<0.01	<0.01	<0.01	0.21
Body	LTE Band48 ANT5	55340	3560	1RB-High	Rear	0mm	\	12.30	13.00	0.781	0.92	0.207	0.24	-0.24
Body	LTE Band48 ANT5	55340	3560	1RB-High	Left	0mm	\	12.30	13.00	0.025	0.03	0.008	0.01	-0.06
Body	LTE Band48 ANT5	55340	3560	1RB-High	Right	0mm	\	12.30	13.00	0.006	0.01	0.002	<0.01	-0.06
Body	LTE Band48 ANT5	55340	3560	1RB-High	Top	0mm	FIG A.11	12.30	13.00	1.080	1.27	0.271	0.32	-0.30
Body	LTE Band48 ANT5	55340	3560	1RB-High	Bottom	0mm	\	12.30	13.00	<0.01	<0.01	<0.01	<0.01	0.00
Body	LTE Band48 ANT5	55340	3560	50RB-Low	Rear	0mm	\	11.79	13.00	0.523	0.69	0.157	0.21	0.23
Body	LTE Band48 ANT5	55340	3560	50RB-Low	Left	0mm	\	11.79	13.00	0.022	0.03	0.007	0.01	0.30
Body	LTE Band48 ANT5	55340	3560	50RB-Low	Right	0mm	\	11.79	13.00	0.006	0.01	0.002	<0.01	-0.24
Body	LTE Band48 ANT5	55340	3560	50RB-Low	Top	0mm	\	11.79	13.00	0.880	1.16	0.219	0.29	-0.29
Body	LTE Band48 ANT5	55340	3560	50RB-Low	Bottom	0mm	\	11.79	13.00	<0.01	<0.01	<0.01	<0.01	0.08
RF Exposure Conditions	Frequency Band	Channel Number	Frequency (MHz)	Mode/RB	Test setup	Distance	Figure No.	EUT Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
Body	LTE Band66 ANT2	132322	1745	1RB-Middle	Rear	29mm	\	22.83	24.00	0.312	0.41	0.197	0.26	-0.19
Body	LTE Band66 ANT2	132322	1745	1RB-Middle	Left	29mm	\	22.83	24.00	<0.01	<0.01	<0.01	<0.01	-0.09
Body	LTE Band66 ANT2	132322	1745	1RB-Middle	Right	29mm	\	22.83	24.00	0.434	0.57	0.272	0.36	0.16
Body	LTE Band66 ANT2	132322	1745	1RB-Middle	Top	29mm	\	22.83	24.00	<0.01	<0.01	<0.01	<0.01	-0.21
Body	LTE Band66 ANT2	132322	1745	1RB-Middle	Bottom	29mm	\	22.83	24.00	0.017	0.02	0.013	0.02	-0.17
Body	LTE Band66 ANT2	132322	1745	50RB-Low	Rear	29mm	\	21.80	23.00	0.248	0.33	0.158	0.21	-0.02
Body	LTE Band66 ANT2	132322	1745	50RB-Low	Left	29mm	\	21.80	23.00	<0.01	<0.01	<0.01	<0.01	0.28
Body	LTE Band66 ANT2	132322	1745	50RB-Low	Right	29mm	\	21.80	23.00	0.342	0.45	0.217	0.29	0.28
Body	LTE Band66 ANT2	132322	1745	50RB-Low	Top	29mm	\	21.80	23.00	<0.01	<0.01	<0.01	<0.01	0.19
Body	LTE Band66 ANT2	132322	1745	50RB-Low	Bottom	29mm	\	21.80	23.00	0.014	0.02	0.010	0.01	0.26
Body	LTE Band66 ANT2	132322	1745	1RB-High	Rear	0mm	FIG A.12	13.22	14.00	1.070	1.28	0.453	0.54	-0.26
Body	LTE Band66 ANT2	132322	1745	1RB-High	Left	0mm	\	13.22	14.00	<0.01	<0.01	<0.01	<0.01	-0.02
Body	LTE Band66 ANT2	132322	1745	1RB-High	Right	0mm	\	13.22	14.00	0.749	0.90	0.374	0.45	-0.15
Body	LTE Band66 ANT2	132322	1745	1RB-High	Top	0mm	\	13.22	14.00	<0.01	<0.01	<0.01	<0.01	-0.27
Body	LTE Band66 ANT2	132322	1745	1RB-High	Bottom	0mm	\	13.22	14.00	0.017	0.02	0.010	0.01	0.21
Body	LTE Band66 ANT2	132322	1745	50RB-Low	Rear	0mm	\	12.70	14.00	0.809	1.09	0.352	0.47	0.30
Body	LTE Band66 ANT2	132322	1745	50RB-Low	Left	0mm	\	12.70	14.00	<0.01	<0.01	<0.01	<0.01	0.02
Body	LTE Band66 ANT2	132322	1745	50RB-Low	Right	0mm	\	12.70	14.00	0.596	0.80	0.299	0.40	0.14
Body	LTE Band66 ANT2	132322	1745	50RB-Low	Top	0mm	\	12.70	14.00	<0.01	<0.01	<0.01	<0.01	0.25
Body	LTE Band66 ANT2	132322	1745	50RB-Low	Bottom	0mm	\	12.70	14.00	0.022	0.03	0.013	0.02	0.28
Body	LTE Band66 ANT2	132322	1745	1RB-High	ULCA	0mm	\	13.19	14.00	0.980	1.18	0.429	0.52	0.09

ENDC/ULCA

RF Exposure Conditions	Frequency Band	Channel Number	Frequency (MHz)	Mode/RB	Test setup	Distance	Figure No.	EUT Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
Body	LTE Band2 ANT2	18900	1880	1RB-Middle	Rear	0mm	\	10.27	11.00	0.51	0.60	0.202	0.239	-0.15
Body	LTE Band2 ANT2	18900	1880	1RB-Middle	Left	0mm	\	10.27	11.00	<0.01	<0.01	<0.01	<0.01	0.11
Body	LTE Band2 ANT2	18900	1880	1RB-Middle	Right	0mm	\	10.27	11.00	0.43	0.50	0.182	0.215	0.11
Body	LTE Band2 ANT2	18900	1880	1RB-Middle	Right	0mm	\	10.27	11.00	0.52	0.61	0.213	0.252	0.07
Body	LTE Band2 ANT2	18900	1880	1RB-Middle	Right	0mm	FIG A.13	10.27	11.00	0.58	0.69	0.242	0.286	0.14
Body	LTE Band2 ANT2	18900	1880	1RB-Middle	Top	0mm	\	10.27	11.00	<0.01	<0.01	<0.01	<0.01	-0.08
Body	LTE Band2 ANT2	18900	1880	1RB-Middle	Bottom	0mm	\	10.27	11.00	0.043	0.05	0.021	0.025	0.02
Body	LTE Band2 ANT2	18900	1880	50RB-Low	Rear	0mm	\	10.30	11.00	0.50	0.58	0.191	0.224	-0.20
Body	LTE Band2 ANT2	18900	1880	50RB-Low	Left	0mm	\	10.30	11.00	<0.01	<0.01	<0.01	<0.01	0.03
Body	LTE Band2 ANT2	18900	1880	50RB-Low	Right	0mm	\	10.30	11.00	0.42	0.49	0.171	0.201	-0.16
Body	LTE Band2 ANT2	18900	1880	50RB-Low	Right	0mm	\	10.30	11.00	0.51	0.60	0.203	0.239	0.00
Body	LTE Band2 ANT2	18900	1880	50RB-Low	Right	0mm	\	10.30	11.00	0.57	0.67	0.232	0.273	0.07
Body	LTE Band2 ANT2	18900	1880	50RB-Low	Top	0mm	\	10.30	11.00	0.000	0.00	0.000	0.000	-0.09
Body	LTE Band2 ANT2	18900	1880	50RB-Low	Bottom	0mm	\	10.30	11.00	0.033	0.04	0.009	0.011	-0.15
RF Exposure Conditions	Frequency Band	Channel Number	Frequency (MHz)	Mode/RB	Test setup	Distance	Figure No.	EUT Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
Body	LTE Band2 ANT0	18900	1880	1RB-Middle	Rear	24mm	\	22.66	24.00	0.145	0.20	0.079	0.108	0.18
Body	LTE Band2 ANT0	18900	1880	1RB-Middle	Left	24mm	\	22.66	24.00	0.034	0.05	0.020	0.027	0.09
Body	LTE Band2 ANT0	18900	1880	1RB-Middle	Right	24mm	\	22.66	24.00	0.093	0.13	0.054	0.074	-0.04
Body	LTE Band2 ANT0	18900	1880	1RB-Middle	Top	24mm	\	22.66	24.00	0.122	0.17	0.062	0.084	0.03
Body	LTE Band2 ANT0	18900	1880	1RB-Middle	Bottom	24mm	\	22.66	24.00	<0.01	<0.01	<0.01	<0.01	0.15
Body	LTE Band2 ANT0	18900	1880	50RB-Low	Rear	24mm	\	21.97	23.00	0.104	0.13	0.057	0.072	-0.04
Body	LTE Band2 ANT0	18900	1880	50RB-Low	Left	24mm	\	21.97	23.00	0.032	0.04	0.019	0.024	0.12
Body	LTE Band2 ANT0	18900	1880	50RB-Low	Right	24mm	\	21.97	23.00	0.082	0.10	0.041	0.052	-0.10
Body	LTE Band2 ANT0	18900	1880	50RB-Low	Top	24mm	\	21.97	23.00	0.092	0.12	0.043	0.055	-0.09
Body	LTE Band2 ANT0	18900	1880	50RB-Low	Bottom	24mm	\	21.97	23.00	<0.01	<0.01	<0.01	<0.01	0.08
Body	LTE Band2 ANT0	18900	1880	1RB-Middle	Rear	0mm	FIG A.14	13.01	14.00	0.602	0.76	0.251	0.315	0.01
Body	LTE Band2 ANT0	18900	1880	1RB-Middle	Left	0mm	\	13.01	14.00	0.063	0.08	0.033	0.041	0.20
Body	LTE Band2 ANT0	18900	1880	1RB-Middle	Right	0mm	\	13.01	14.00	0.146	0.18	0.058	0.073	-0.01
Body	LTE Band2 ANT0	18900	1880	1RB-Middle	Top	0mm	\	13.01	14.00	0.445	0.56	0.178	0.224	-0.01
Body	LTE Band2 ANT0	18900	1880	1RB-Middle	Bottom	0mm	\	13.01	14.00	0.031	0.04	0.012	0.015	0.05
Body	LTE Band2 ANT0	18900	1880	50RB-Low	Rear	0mm	\	12.87	14.00	0.524	0.68	0.208	0.270	0.00
Body	LTE Band2 ANT0	18900	1880	50RB-Low	Left	0mm	\	12.87	14.00	0.058	0.08	0.029	0.038	-0.15
Body	LTE Band2 ANT0	18900	1880	50RB-Low	Right	0mm	\	12.87	14.00	0.117	0.15	0.053	0.069	-0.09
Body	LTE Band2 ANT0	18900	1880	50RB-Low	Top	0mm	\	12.87	14.00	0.412	0.53	0.149	0.193	0.08
Body	LTE Band2 ANT0	18900	1880	50RB-Low	Bottom	0mm	\	12.87	14.00	<0.01	<0.01	<0.01	<0.01	0.14
RF Exposure Conditions	Frequency Band	Channel Number	Frequency (MHz)	Mode/RB	Test setup	Distance	Figure No.	EUT Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
Body	LTE Band5 ANT0	20600	844	1RB-High	Rear	0mm	FIG A.15	17.87	19.00	0.339	0.44	0.137	0.178	-0.19
Body	LTE Band5 ANT0	20600	844	1RB-High	Left	0mm	\	17.87	19.00	0.036	0.05	0.018	0.023	0.03
Body	LTE Band5 ANT0	20600	844	1RB-High	Right	0mm	\	17.87	19.00	0.082	0.11	0.032	0.042	-0.10
Body	LTE Band5 ANT0	20600	844	1RB-High	Top	0mm	\	17.87	19.00	0.251	0.33	0.097	0.126	-0.06
Body	LTE Band5 ANT0	20600	844	1RB-High	Bottom	0mm	\	17.87	19.00	0.017	0.02	0.006	0.008	0.11
Body	LTE Band5 ANT0	20525	836.5	25RB-Low	Rear	0mm	\	17.75	19.00	0.295	0.39	0.113	0.151	-0.03
Body	LTE Band5 ANT0	20525	836.5	25RB-Low	Left	0mm	\	17.75	19.00	0.032	0.04	0.016	0.021	0.10
Body	LTE Band5 ANT0	20525	836.5	25RB-Low	Right	0mm	\	17.75	19.00	0.066	0.09	0.029	0.039	-0.09
Body	LTE Band5 ANT0	20525	836.5	25RB-Low	Top	0mm	\	17.75	19.00	0.232	0.31	0.081	0.108	0.13
Body	LTE Band5 ANT0	20525	836.5	25RB-Low	Bottom	0mm	\	17.75	19.00	<0.01	<0.01	<0.01	<0.01	-0.08
RF Exposure Conditions	Frequency Band	Channel Number	Frequency (MHz)	Mode/RB	Test setup	Distance	Figure No.	EUT Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
Body	LTE Band7 ANT3	21100	2535	1RB-Low	Rear	0mm	FIG A.16	11.71	12.00	0.561	0.60	0.222	0.237	0.03
Body	LTE Band7 ANT3	21100	2535	1RB-Low	Left	0mm	\	11.71	12.00	0.021	0.02	0.008	0.009	0.07
Body	LTE Band7 ANT3	21100	2535	1RB-Low	Right	0mm	\	11.71	12.00	0.023	0.02	0.009	0.010	-0.17
Body	LTE Band7 ANT3	21100	2535	1RB-Low	Top	0mm	\	11.71	12.00	0.542	0.58	0.180	0.192	0.11
Body	LTE Band7 ANT3	21100	2535	1RB-Low	Bottom	0mm	\	11.71	12.00	<0.01	<0.01	<0.01	<0.01	0.02
Body	LTE Band7 ANT3	21100	2535	50RB-Low	Rear	0mm	\	11.27	12.00	0.448	0.53	0.177	0.209	-0.06
Body	LTE Band7 ANT3	21100	2535	50RB-Low	Left	0mm	\	11.27	12.00	0.017	0.02	0.007	0.008	0.14
Body	LTE Band7 ANT3	21100	2535	50RB-Low	Right	0mm	\	11.27	12.00	0.019	0.02	0.007	0.008	-0.06
Body	LTE Band7 ANT3	21100	2535	50RB-Low	Top	0mm	\	11.27	12.00	0.397	0.47	0.142	0.168	-0.05
Body	LTE Band7 ANT3	21100	2535	50RB-Low	Bottom	0mm	\	11.27	12.00	<0.01	<0.01	<0.01	<0.01	0.06

RF Exposure Conditions	Frequency Band	Channel Number	Frequency (MHz)	Mode/RB	Test setup	Distance	Figure No.	EUT Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
Body	LTE Band12 ANTO	23095	707.5	1RB-Low	Rear	0mm	FIG A.17	16.76	17.00	0.630	0.25	0.304	0.123	0.20
Body	LTE Band12 ANTO	23095	707.5	1RB-Low	Left	0mm	\	16.76	17.00	0.019	0.01	0.011	0.004	0.18
Body	LTE Band12 ANTO	23095	707.5	1RB-Low	Right	0mm	\	16.76	17.00	0.042	0.02	0.026	0.010	-0.19
Body	LTE Band12 ANTO	23095	707.5	1RB-Low	Top	0mm	\	16.76	17.00	0.462	0.19	0.219	0.088	-0.19
Body	LTE Band12 ANTO	23095	707.5	1RB-Low	Bottom	0mm	\	16.76	17.00	<0.01	<0.01	<0.01	<0.01	-0.20
Body	LTE Band12 ANTO	23095	707.5	25RB-Low	Rear	0mm	\	16.75	17.00	0.540	0.22	0.259	0.104	0.19
Body	LTE Band12 ANTO	23095	707.5	25RB-Low	Left	0mm	\	16.75	17.00	<0.01	<0.01	<0.01	<0.01	0.04
Body	LTE Band12 ANTO	23095	707.5	25RB-Low	Right	0mm	\	16.75	17.00	0.044	0.02	0.026	0.010	0.11
Body	LTE Band12 ANTO	23095	707.5	25RB-Low	Top	0mm	\	16.75	17.00	0.540	0.22	0.219	0.088	-0.06
Body	LTE Band12 ANTO	23095	707.5	25RB-Low	Bottom	0mm	\	16.75	17.00	0.017	0.01	0.009	0.004	-0.01
Body	LTE Band13 ANTO	23230	782	1RB-Low	Rear	0mm	FIG A.18	16.68	17	0.606	0.65	0.277	0.298	0.15
Body	LTE Band13 ANTO	23230	782	1RB-Low	Left	0mm	\	16.68	17	0.036	0.04	0.017	0.018	-0.14
Body	LTE Band13 ANTO	23230	782	1RB-Low	Right	0mm	\	16.68	17	0.059	0.06	0.031	0.033	0.03
Body	LTE Band13 ANTO	23230	782	1RB-Low	Top	0mm	\	16.68	17	0.544	0.59	0.228	0.245	0.19
Body	LTE Band13 ANTO	23230	782	1RB-Low	Bottom	0mm	\	16.68	17	0.028	0.03	0.010	0.011	0.15
Body	LTE Band13 ANTO	23230	782	25RB-High	Rear	0mm	\	16.61	17	0.491	0.54	0.229	0.251	0.12
Body	LTE Band13 ANTO	23230	782	25RB-High	Left	0mm	\	16.61	17	0.024	0.03	0.012	0.013	-0.12
Body	LTE Band13 ANTO	23230	782	25RB-High	Right	0mm	\	16.61	17	0.055	0.06	0.026	0.028	-0.18
Body	LTE Band13 ANTO	23230	782	25RB-High	Top	0mm	\	16.61	17	0.454	0.50	0.189	0.207	-0.09
Body	LTE Band13 ANTO	23230	782	25RB-High	Bottom	0mm	\	16.61	17	<0.01	<0.01	<0.01	<0.01	-0.11
Body	LTE Band48 ANT5	55340	3560	1RB-High	Rear	0mm	\	9.84	10.00	0.372	0.39	0.105	0.109	0.01
Body	LTE Band48 ANT5	55340	3560	1RB-High	Left	0mm	\	9.84	10.00	0.012	0.01	0.004	0.004	0.00
Body	LTE Band48 ANT5	55340	3560	1RB-High	Right	0mm	\	9.84	10.00	0.003	<0.01	0.001	0.001	-0.13
Body	LTE Band48 ANT5	55340	3560	1RB-High	Top	0mm	FIG A.19	9.84	10.00	0.514	0.53	0.138	0.143	-0.20
Body	LTE Band48 ANT5	55340	3560	1RB-High	Bottom	0mm	\	9.84	10.00	<0.01	<0.01	<0.01	<0.01	0.05
Body	LTE Band48 ANT5	55340	3560	50RB-Low	Rear	0mm	\	9.87	10.00	0.249	0.26	0.080	0.082	0.17
Body	LTE Band48 ANT5	55340	3560	50RB-Low	Left	0mm	\	9.87	10.00	0.010	0.01	0.004	0.004	0.07
Body	LTE Band48 ANT5	55340	3560	50RB-Low	Right	0mm	\	9.87	10.00	0.003	<0.01	0.001	0.001	0.02
Body	LTE Band48 ANT5	55340	3560	50RB-Low	Top	0mm	\	9.87	10.00	0.419	0.43	0.112	0.115	0.09
Body	LTE Band48 ANT5	55340	3560	50RB-Low	Bottom	0mm	\	9.87	10.00	<0.01	<0.01	<0.01	<0.01	0.07
Body	LTE Band66 ANT2	132072	1720	1RB-Middle	Rear	0mm	\	10.66	11.00	0.483	0.52	0.203	0.220	0.10
Body	LTE Band66 ANT2	132072	1720	1RB-Middle	Rear	0mm	FIG A.20	10.66	11.00	0.506	0.55	0.211	0.228	-0.10
Body	LTE Band66 ANT2	132072	1720	1RB-Middle	Rear	0mm	\	10.66	11.00	0.496	0.54	0.208	0.225	0.02
Body	LTE Band66 ANT2	132072	1720	1RB-Middle	Left	0mm	\	10.66	11.00	<0.01	<0.01	<0.01	<0.01	-0.08
Body	LTE Band66 ANT2	132072	1720	1RB-Middle	Right	0mm	\	10.66	11.00	0.383	0.41	0.160	0.173	-0.10
Body	LTE Band66 ANT2	132072	1720	1RB-Middle	Bottom	0mm	\	10.66	11.00	0.016	0.02	0.008	0.009	0.20
Body	LTE Band66 ANT2	132072	1720	50RB-Low	Rear	0mm	\	10.33	11.00	0.472	0.55	0.194	0.226	-0.17
Body	LTE Band66 ANT2	132072	1720	50RB-Low	Left	0mm	\	10.33	11.00	<0.01	<0.01	<0.01	<0.01	0.06
Body	LTE Band66 ANT2	132072	1720	50RB-Low	Right	0mm	\	10.33	11.00	0.372	0.43	0.152	0.177	-0.09
Body	LTE Band66 ANT2	132072	1720	50RB-Low	Bottom	0mm	\	10.33	11.00	0.016	0.02	0.008	0.009	0.13

14.2 SAR results for 5G NR NR-SA

RF Exposure Conditions	Frequency Band	Channel Number	Frequency (MHz)	Mode/RB	Test setup	Distance	Figure No.	EUT Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
Body	N2 ANT2	376000	1880	15k 5M 12_6 DFT-S-OFDM-QPSK 23db	Rear	29mm	\	22.61	24.00	0.406	0.56	0.236	0.325	-0.24
Body	N2 ANT2	376000	1880	15k 5M 12_6 DFT-S-OFDM-QPSK 23db	Right	29mm	\	22.61	24.00	0.409	0.56	0.246	0.339	0.04
Body	N2 ANT2	376000	1880	15k 5M 12_6 DFT-S-OFDM-QPSK 23db	Bottom	29mm	\	22.61	24.00	0.021	0.03	0.014	0.019	-0.16
Body	N2 ANT2	376000	1880	15k 5M 12_6 DFT-S-OFDM-QPSK 13db	Rear	0mm	FIG A.25	13.28	14.00	1.00	1.18	0.386	0.456	0.12
Body	N2 ANT2	376000	1880	15k 5M 12_6 DFT-S-OFDM-QPSK 13db	Right	0mm	\	13.28	14.00	0.89	1.05	0.390	0.460	-0.10
Body	N2 ANT2	376000	1880	15k 5M 12_6 DFT-S-OFDM-QPSK 13db	Bottom	0mm	\	13.28	14.00	0.100	0.12	0.047	0.055	-0.04
Body	N5 ANT0	167300	836.5	15k 5M 12_6 DFT-S-OFDM-QPSK 23db	Rear	19mm	\	22.91	24.00	0.417	0.54	0.306	0.393	0.07
Body	N5 ANT0	167300	836.5	15k 5M 12_6 DFT-S-OFDM-QPSK 23db	Right	19mm	\	22.91	24.00	0.240	0.31	0.193	0.248	-0.26
Body	N5 ANT0	167300	836.5	15k 5M 12_6 DFT-S-OFDM-QPSK 23db	Top	19mm	\	22.91	24.00	0.464	0.60	0.284	0.365	0.02
Body	N5 ANT0	167300	836.5	15k 5M 12_6 DFT-S-OFDM-QPSK 20db	Rear	0mm	FIG A.26	20.18	21.00	0.548	0.66	0.216	0.261	0.29
Body	N5 ANT0	167300	836.5	15k 5M 12_6 DFT-S-OFDM-QPSK 20db	Right	0mm	\	20.18	21.00	0.146	0.18	0.062	0.075	0.04
Body	N5 ANT0	167300	836.5	15k 5M 12_6 DFT-S-OFDM-QPSK 20db	Top	0mm	\	20.18	21.00	0.430	0.52	0.146	0.176	-0.28
Body	N66 ANT2	349000	1745	15k 5M 12_6 DFT-S-OFDM-QPSK 23db	Rear	29mm	\	22.47	24.00	0.330	0.47	0.165	0.235	0.13
Body	N66 ANT2	349000	1745	15k 5M 12_6 DFT-S-OFDM-QPSK 23db	Right	29mm	\	22.47	24.00	0.464	0.66	0.284	0.404	0.28
Body	N66 ANT2	349000	1745	15k 5M 12_6 DFT-S-OFDM-QPSK 23db	Bottom	29mm	\	22.47	24.00	<0.01	<0.01	<0.01	<0.01	-0.16
Body	N66 ANT2	349000	1745	15k 5M 12_6 DFT-S-OFDM-QPSK 13db	Rear	0mm	FIG A.27	13.27	14.00	0.98	1.16	0.393	0.465	0.19
Body	N66 ANT2	349000	1745	15k 5M 12_6 DFT-S-OFDM-QPSK 13db	Right	0mm	\	13.27	14.00	0.800	0.95	0.344	0.407	-0.06
Body	N66 ANT2	349000	1745	15k 5M 12_6 DFT-S-OFDM-QPSK 13db	Bottom	0mm	\	13.27	14.00	0.034	0.04	0.023	0.027	0.30
Body	N77L ANT5	633334	3500.01	30k 20M 25_12 DFT-S-OFDM-QPSK 25.5db	Rear	34mm	\	25.00	26.50	0.326	0.46	0.169	0.239	-0.17
Body	N77L ANT5	633334	3500.01	30k 20M 25_12 DFT-S-OFDM-QPSK 25.5db	Top	29mm	FIG A.28	25.00	26.50	0.559	0.79	0.295	0.417	-0.03
Body	N77H ANT5	650800	3762	30k 20M 25_12 DFT-S-OFDM-QPSK 25.5db	Rear	34mm	\	24.71	26.50	0.233	0.35	0.121	0.183	-0.27
Body	N77H ANT5	650800	3762	30k 20M 25_12 DFT-S-OFDM-QPSK 25.5db	Top	29mm	\	24.71	26.50	0.431	0.65	0.247	0.373	-0.25
Body	N77L ANT5	633334	3500.01	30k 20M 25_12 DFT-S-OFDM-QPSK 10.5db	Rear	0mm	\	10.22	11.50	0.507	0.68	0.270	0.363	0.24
Body	N77L ANT5	633334	3500.01	30k 20M 25_12 DFT-S-OFDM-QPSK 10.5db	Top	0mm	\	10.22	11.50	0.648	0.87	0.288	0.387	-0.21
Body	N77H ANT5	664666	3969.99	30k 20M 25_12 DFT-S-OFDM-QPSK 10.5db	Rear	0mm	\	10.41	11.50	0.632	0.81	0.276	0.355	-0.05
Body	N77H ANT5	664666	3969.99	30k 20M 25_12 DFT-S-OFDM-QPSK 10.5db	Top	0mm	FIG A.29	10.41	11.50	1.000	1.29	0.377	0.485	-0.13
Body	N78L ANT5	633334	3500.01	30k 20M 25_12 DFT-S-OFDM-QPSK 23db	Rear	34mm	\	23.13	24.00	0.308	0.38	0.152	0.186	0.19
Body	N78L ANT5	633334	3500.01	30k 20M 25_12 DFT-S-OFDM-QPSK 23db	Top	29mm	FIG A.30	23.13	24.00	0.520	0.64	0.263	0.321	-0.19
Body	N78H ANT5	650000	3750	30k 20M 25_12 DFT-S-OFDM-QPSK 23db	Rear	34mm	\	23.25	24.00	0.332	0.39	0.163	0.194	-0.25
Body	N78H ANT5	650000	3750	30k 20M 25_12 DFT-S-OFDM-QPSK 23db	Top	29mm	\	23.25	24.00	0.449	0.53	0.223	0.265	0.15
Body	N78L ANT5	633334	3500.01	30k 20M 25_12 DFT-S-OFDM-QPSK 10db	Rear	0mm	\	10.79	11.00	0.572	0.60	0.271	0.284	-0.20
Body	N78L ANT5	633334	3500.01	30k 20M 25_12 DFT-S-OFDM-QPSK 10db	Top	0mm	\	10.79	11.00	0.664	0.70	0.310	0.325	-0.28
Body	N78H ANT5	650000	3750	30k 20M 25_12 DFT-S-OFDM-QPSK 10db	Rear	0mm	\	10.93	11.00	0.431	0.44	0.279	0.284	-0.09
Body	N78H ANT5	650000	3750	30k 20M 25_12 DFT-S-OFDM-QPSK 10db	Top	0mm	FIG A.31	10.93	11.00	0.984	1.00	0.410	0.417	0.25
Body	N48 ANT5	641666	3624.99	30k 10M 12_6 DFT-S-OFDM-QPSK 23db	Rear	34mm	\	22.60	24.00	0.289	0.40	0.132	0.182	0.12
Body	N48 ANT5	641666	3624.99	30k 10M 12_6 DFT-S-OFDM-QPSK 23db	Top	29mm	\	22.60	24.00	0.488	0.67	0.229	0.316	0.15
Body	N48 ANT5	641666	3624.99	30k 10M 12_6 DFT-S-OFDM-QPSK 10db	Rear	0mm	\	10.71	11.00	0.656	0.70	0.281	0.279	-0.11
Body	N48 ANT5	641666	3624.99	30k 10M 12_6 DFT-S-OFDM-QPSK 10db	Top	0mm	FIG A.39	10.71	11.00	0.762	0.81	0.298	0.319	-0.18

NR-NSA

RF Exposure Conditions	Frequency Band	Channel Number	Frequency (MHz)	Mode/RB	Test setup	Distance	Figure No.	EUT Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
Body	N2 ANTD	376000	1880	15k 5M 12 6 DFT-S-OFDM-QPSK 23db	Rear	24mm	\	22.87	24.00	0.690	0.78	0.403	0.523	-0.15
Body	N2 ANTD	376000	1880	15k 5M 12 6 DFT-S-OFDM-QPSK 23db	Right	24mm	\	22.87	24.00	0.031	0.04	0.021	0.027	0.17
Body	N2 ANTD	376000	1880	15k 5M 12 6 DFT-S-OFDM-QPSK 23db	Top	24mm	FIG A.32	22.87	24.00	0.611	0.79	0.462	0.598	0.18
Body	N2 ANTD	376000	1880	15k 5M 12 6 DFT-S-OFDM-QPSK 10db	Rear	0mm	\	9.46	11.00	0.40	0.57	0.394	0.562	0.05
Body	N2 ANTD	376000	1880	15k 5M 12 6 DFT-S-OFDM-QPSK 10db	Right	0mm	\	9.46	11.00	0.045	0.06	0.022	0.031	0.15
Body	N2 ANTD	376000	1880	15k 5M 12 6 DFT-S-OFDM-QPSK 10db	Top	0mm	\	9.46	11.00	0.478	0.68	0.206	0.294	0.20
Body	N66 ANTD	349000	1745	15k 5M 12 6 DFT-S-OFDM-QPSK 23db	Rear	24mm	\	23.23	24.00	0.046	0.05	0.042	0.050	0.00
Body	N66 ANTD	349000	1745	15k 5M 12 6 DFT-S-OFDM-QPSK 23db	Right	24mm	\	23.23	24.00	0.000	0.00	0.000	0.000	-0.07
Body	N66 ANTD	349000	1745	15k 5M 12 6 DFT-S-OFDM-QPSK 23db	Top	24mm	\	23.23	24.00	0.079	0.09	0.070	0.084	0.12
Body	N66 ANTD	349000	1745	15k 5M 12 6 DFT-S-OFDM-QPSK 10db	Rear	0mm	FIG A.33	10.35	11.00	0.114	0.13	0.075	0.087	0.02
Body	N66 ANTD	349000	1745	15k 5M 12 6 DFT-S-OFDM-QPSK 10db	Right	0mm	\	10.35	11.00	0.004	0.00	0.003	0.003	0.10
Body	N66 ANTD	349000	1745	15k 5M 12 6 DFT-S-OFDM-QPSK 10db	Top	0mm	\	10.35	11.00	0.054	0.06	0.038	0.044	0.03
Body	N2 ANT2	376000	1880	15k 5M 12 6 DFT-S-OFDM-QPSK 10db	Rear	0mm	FIG A.34	10.08	11.00	0.18	0.22	0.075	0.093	-0.10
Body	N2 ANT2	376000	1880	15k 5M 12 6 DFT-S-OFDM-QPSK 10db	Right	0mm	\	10.08	11.00	0.16	0.19	0.076	0.094	0.15
Body	N2 ANT2	376000	1880	15k 5M 12 6 DFT-S-OFDM-QPSK 10db	Bottom	0mm	\	10.08	11.00	0.018	0.02	0.009	0.011	0.16
Body	N5 ANTD	167300	836.5	15k 5M 12 6 DFT-S-OFDM-QPSK 17db	Rear	0mm	FIG A.35	17.16	18.00	0.043	0.05	0.023	0.028	0.13
Body	N5 ANTD	167300	836.5	15k 5M 12 6 DFT-S-OFDM-QPSK 17db	Right	0mm	\	17.16	18.00	0.011	0.01	0.007	0.008	0.17
Body	N5 ANTD	167300	836.5	15k 5M 12 6 DFT-S-OFDM-QPSK 17db	Top	0mm	\	17.16	18.00	0.033	0.04	0.016	0.019	-0.09
Body	N66 ANT2	349000	1745	15k 5M 12 6 DFT-S-OFDM-QPSK 10db	Rear	0mm	FIG A.36	10.09	11.00	0.16	0.19	0.102	0.126	0.17
Body	N66 ANT2	349000	1745	15k 5M 12 6 DFT-S-OFDM-QPSK 10db	Right	0mm	\	10.09	11.00	0.128	0.16	0.089	0.110	0.20
Body	N66 ANT2	349000	1745	15k 5M 12 6 DFT-S-OFDM-QPSK 10db	Bottom	0mm	\	10.09	11.00	0.005	0.01	0.006	0.007	-0.12
Body	N77L ANT5	633334	3500.01	30k 20M 25 12 DFT-S-OFDM-QPSK 9.5db	Rear	0mm	\	8.69	9.50	0.251	0.30	0.088	0.106	0.09
Body	N77L ANT5	633334	3500.01	30k 20M 25 12 DFT-S-OFDM-QPSK 9.5db	Top	0mm	\	8.69	9.50	0.321	0.39	0.094	0.113	-0.01
Body	N77H ANT5	664666	3969.99	30k 20M 25 12 DFT-S-OFDM-QPSK 9.5db	Rear	0mm	\	8.69	9.50	0.313	0.38	0.090	0.108	0.13
Body	N77H ANT5	664666	3969.99	30k 20M 25 12 DFT-S-OFDM-QPSK 9.5db	Top	0mm	FIG A.37	8.69	9.50	0.495	0.60	0.123	0.148	0.12
Body	N78L ANT5	633334	3500.01	30k 20M 25 12 DFT-S-OFDM-QPSK 9db	Rear	0mm	\	9.31	10.00	0.330	0.39	0.097	0.114	-0.04
Body	N78L ANT5	633334	3500.01	30k 20M 25 12 DFT-S-OFDM-QPSK 9db	Top	0mm	\	9.31	10.00	0.383	0.45	0.111	0.130	0.06
Body	N78H ANT5	650000	3750	30k 20M 25 12 DFT-S-OFDM-QPSK 9db	Rear	0mm	\	9.49	10.00	0.249	0.28	0.100	0.112	0.16
Body	N78H ANT5	650000	3750	30k 20M 25 12 DFT-S-OFDM-QPSK 9db	Top	0mm	FIG A.38	9.49	10.00	0.568	0.64	0.147	0.165	-0.06

The conducted power value in NR band (TDD) need to be dynamically adjusted with the uplink duty cycle.

Sar Sensor on					Sar Sensor off			
n77 PC2					n77 PC2			
Maxpower	Duty cycle	TX power	Calculation -10*log (Duty cycle)	Time Average Power (dBm)	Maxpower	Duty cycle	TX power	Time Average Power (dBm)
25.5	1%-10%	20	-10	10	25.5	1%-10%	25.5	25.5
25.5	11%-20%	17	-7	10	25.5	11%-20%	25.5	25.5
25.5	21%-30%	15.2	-5.2	10	25.5	21%-30%	25.5	25.5
25.5	31%-40%	14	-4	10	25.5	31%-40%	25.5	25.5
25.5	41%-50%	13	-3	10	25.5	41%-50%	25.5	25.5
25.5	51%-60%	12.2	-2.2	10	25.5	51%-60%	25.5	25.5
25.5	61%-70%	11.5	-1.5	10	25.5	61%-70%	25.5	25.5
25.5	71%-80%	11	-1	10	25.5	71%-80%	25.5	25.5
25.5	81%-90%	10.5	-0.5	10	25.5	81%-90%	25.5	25.5
25.5	91%-100%	10	0	10	25.5	91%-100%	25.5	25.5

Sar Sensor on					Sar Sensor off			
n78 PC3					n78 PC2			
Maxpower	Duty cycle	TX power	Calculation -10*log (Duty cycle)	Time Average Power (dBm)	Maxpower	Duty cycle	TX power	Time Average Power (dBm)
23	1%-10%	20	-10	10	23	1%-10%	23	23
23	11%-20%	17	-7	10	23	11%-20%	23	23
23	21%-30%	15.2	-5.2	10	23	21%-30%	23	23
23	31%-40%	14	-4	10	23	31%-40%	23	23
23	41%-50%	13	-3	10	23	41%-50%	23	23
23	51%-60%	12.2	-2.2	10	23	51%-60%	23	23
23	61%-70%	11.5	-1.5	10	23	61%-70%	23	23
23	71%-80%	11	-1	10	23	71%-80%	23	23
23	81%-90%	10.5	-0.5	10	23	81%-90%	23	23
23	91%-100%	10	0	10	23	91%-100%	23	23

14.3 SAR Evaluation for WIFI

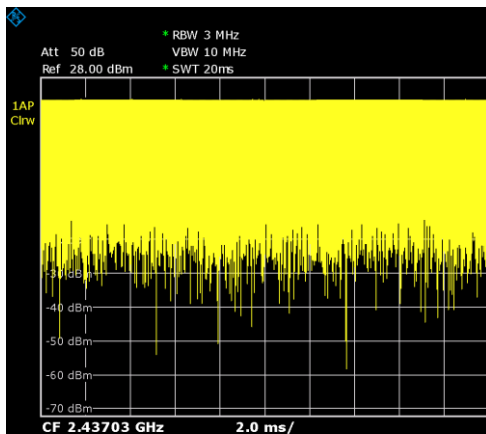
The maximum output power specified for production units are determined for all applicable 802.11 transmission modes in each standalone and aggregated frequency band. Maximum output power is measured for the highest maximum output power configuration(s) in each frequency band according to the default power measurement procedures.

When the same transmission mode configurations have the same maximum output power on the same channel for the 802.11 a/g/n/ac/ax modes, the channel in the lower order/sequence 802.11 mode (i.e. a, g, n ac then ax) is selected.

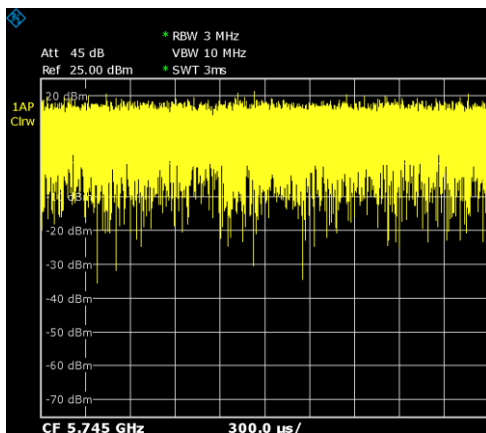
SAR Test reduction was applied from KDB 248227 guidance, when the same maximum power is specified for multiple transmission modes in a frequency band, the largest channel bandwidth, lowest order modulation, lowest data rate and lowest order 802.11a/g/n/ac mode is used for SAR measurement, on the highest measured output power channel in the initial test configuration, for each frequency band. Additional output power measurements were not deemed necessary.

Duty factor plot

Wifi2.4G



WIFI5G





SAR results for WIFI 2.4G

RF Exposure Conditions	Frequency Band	Channel Number	Frequency (MHz)	Mode/RB	Test setup	Distance	Figure No.	EUT Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
Body	WLAN	6	2437	11b 20db	Rear	19mm	\	20.48	20.50	0.186	0.19	0.106	0.11	0.12
Body	WLAN	6	2437	11b 20db	Left	19mm	\	20.48	20.50	0.049	0.05	0.029	0.03	0.16
Body	WLAN	6	2437	11b 20db	Right	19mm	\	20.48	20.50	<0.01	<0.01	<0.01	<0.01	-0.13
Body	WLAN	6	2437	11b 20db	Top	19mm	\	20.48	20.50	0.196	0.20	0.108	0.11	0.28
Body	WLAN	6	2437	11b 20db	Bottom	19mm	\	20.48	20.50	<0.01	<0.01	<0.01	<0.01	-0.28
Body	WLAN	6	2437	11b 14.5db	Rear	0mm	FIG A.21	15.20	15.50	1.280	1.37	0.500	0.54	-0.08
Body	WLAN	6	2437	11b 14.5db	Left	0mm	\	15.20	15.50	0.140	0.15	0.068	0.07	0.03
Body	WLAN	6	2437	11b 14.5db	Right	0mm	\	15.20	15.50	0.180	0.19	0.077	0.08	-0.30
Body	WLAN	6	2437	11b 14.5db	Top	0mm	\	15.20	15.50	0.550	0.59	0.213	0.23	-0.12
Body	WLAN	6	2437	11b 14.5db	Bottom	0mm	\	15.20	15.50	0.050	0.05	0.015	0.02	0.04

RF Exposure Conditions	Frequency Band	Channel Number	Frequency (MHz)	Mode/RB	Test setup	Distance	Figure No.	EUT Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
Body	WLAN2.4G+	6	2437	11b 8db	Rear	19mm	\	9.22	9.50	0.014	0.01	0.009	0.01	0.11
Body	WLAN2.4G+	6	2437	11b 8db	Left	19mm	\	9.22	9.50	0.004	<0.01	0.002	<0.01	-0.26
Body	WLAN2.4G+	6	2437	11b 8db	Right	19mm	\	9.22	9.50	<0.01	<0.01	<0.01	<0.01	0.21
Body	WLAN2.4G+	6	2437	11b 8db	Top	19mm	\	9.22	9.50	0.015	0.02	0.009	0.01	-0.18
Body	WLAN2.4G+	6	2437	11b 8db	Bottom	19mm	\	9.22	9.50	<0.01	<0.01	<0.01	<0.01	-0.21
Body	WLAN2.4G+	6	2437	11b 8db	Rear	0mm	FIG A.23	9.22	9.50	0.169	0.18	0.056	0.06	-0.03
Body	WLAN2.4G+	6	2437	11b 8db	Left	0mm	\	9.22	9.50	0.018	0.02	0.008	0.01	-0.09
Body	WLAN2.4G+	6	2437	11b 8db	Right	0mm	\	9.22	9.50	0.024	0.03	0.009	0.01	-0.27
Body	WLAN2.4G+	6	2437	11b 8db	Top	0mm	\	9.22	9.50	0.073	0.08	0.024	0.03	0.14
Body	WLAN2.4G+	6	2437	11b 8db	Bottom	0mm	\	9.22	9.50	0.007	0.01	0.002	<0.01	-0.18

SAR results for WIFI 5G

RF Exposure Conditions	Frequency Band	Channel Number	Frequency (MHz)	Mode/RB	Test setup	Distance	Figure No.	EUT Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
Body	WLAN	40	5200	11a 18db	Rear	19mm	\	18.47	20.00	0.478	0.68	0.260	0.37	0.28
Body	WLAN	40	5200	11a 18db	Left	19mm	\	18.47	20.00	0.043	0.06	0.024	0.03	-0.14
Body	WLAN	40	5200	11a 18db	Right	19mm	\	18.47	20.00	0.049	0.07	0.026	0.04	0.14
Body	WLAN	40	5200	11a 18db	Top	19mm	\	18.47	20.00	0.574	0.82	0.322	0.46	-0.05
Body	WLAN	40	5200	11a 18db	Bottom	19mm	\	18.47	20.00	<0.01	<0.01	<0.01	<0.01	0.06
Body	WLAN	60	5300	11a 18db	Rear	19mm	\	18.49	20.00	0.530	0.75	0.278	0.39	0.16
Body	WLAN	60	5300	11a 18db	Left	19mm	\	18.49	20.00	0.052	0.07	0.028	0.04	0.26
Body	WLAN	60	5300	11a 18db	Right	19mm	\	18.49	20.00	0.042	0.06	0.024	0.03	-0.03
Body	WLAN	60	5300	11a 18db	Top	19mm	\	18.49	20.00	0.575	0.81	0.333	0.47	0.22
Body	WLAN	60	5300	11a 18db	Bottom	19mm	\	18.49	20.00	<0.01	<0.01	<0.01	<0.01	0.04
Body	WLAN	124	5620	11a 18db	Rear	19mm	\	18.51	19.50	0.535	0.67	0.280	0.35	-0.06
Body	WLAN	124	5620	11a 18db	Left	19mm	\	18.51	19.50	0.075	0.09	0.042	0.05	0.18
Body	WLAN	124	5620	11a 18db	Right	19mm	\	18.51	19.50	0.053	0.07	0.016	0.02	-0.07
Body	WLAN	124	5620	11a 18db	Top	19mm	FIG A.22	18.51	19.50	0.656	0.82	0.338	0.42	0.16
Body	WLAN	124	5620	11a 18db	Bottom	19mm	\	18.51	19.50	<0.01	<0.01	<0.01	<0.01	-0.22
Body	WLAN	157	5785	11a 18db	Rear	19mm	\	18.44	19.50	0.413	0.53	0.218	0.28	-0.22
Body	WLAN	157	5785	11a 18db	Left	19mm	\	18.44	19.50	0.072	0.09	0.020	0.03	0.14
Body	WLAN	157	5785	11a 18db	Right	19mm	\	18.44	19.50	0.053	0.07	0.016	0.02	0.05
Body	WLAN	157	5785	11a 18db	Top	19mm	\	18.44	19.50	0.588	0.75	0.291	0.37	0.01
Body	WLAN	157	5785	11a 18db	Bottom	19mm	\	18.44	19.50	<0.01	<0.01	<0.01	<0.01	-0.25
Body	WLAN	42	5210	11ac 80M 9db	Rear	0mm	\	7.52	9.00	0.412	0.58	0.139	0.20	0.08
Body	WLAN	42	5210	11ac 80M 9db	Left	0mm	\	7.52	9.00	0.053	0.07	0.019	0.03	0.06
Body	WLAN	42	5210	11ac 80M 9db	Right	0mm	\	7.52	9.00	0.093	0.13	0.035	0.05	-0.15
Body	WLAN	42	5210	11ac 80M 9db	Top	0mm	\	7.52	9.00	0.286	0.40	0.100	0.14	0.00
Body	WLAN	42	5210	11ac 80M 9db	Bottom	0mm	\	7.52	9.00	0.020	0.03	0.008	0.01	-0.24
Body	WLAN	58	5290	11ac 80M 9db	Rear	0mm	\	7.71	9.00	0.475	0.64	0.154	0.21	-0.15
Body	WLAN	58	5290	11ac 80M 9db	Left	0mm	\	7.71	9.00	0.051	0.07	0.019	0.03	0.18
Body	WLAN	58	5290	11ac 80M 9db	Right	0mm	\	7.71	9.00	0.101	0.14	0.039	0.05	0.27
Body	WLAN	58	5290	11ac 80M 9db	Top	0mm	\	7.71	9.00	0.334	0.45	0.104	0.14	0.16
Body	WLAN	58	5290	11ac 80M 9db	Bottom	0mm	\	7.71	9.00	0.010	0.01	0.004	0.01	0.00
Body	WLAN	122	5610	11ac 80M 9db	Rear	0mm	\	7.63	9.00	0.435	0.60	0.162	0.22	0.18
Body	WLAN	122	5610	11ac 80M 9db	Left	0mm	\	7.63	9.00	0.061	0.08	0.023	0.03	-0.11
Body	WLAN	122	5610	11ac 80M 9db	Right	0mm	\	7.63	9.00	0.116	0.16	0.042	0.06	0.22
Body	WLAN	122	5610	11ac 80M 9db	Top	0mm	\	7.63	9.00	0.354	0.49	0.119	0.16	-0.09
Body	WLAN	122	5610	11ac 80M 9db	Bottom	0mm	\	7.63	9.00	0.025	0.03	0.008	0.01	-0.10
Body	WLAN	155	5775	11ac 80M 9db	Rear	0mm	\	7.35	9.00	0.328	0.48	0.131	0.19	0.16
Body	WLAN	155	5775	11ac 80M 9db	Left	0mm	\	7.35	9.00	0.045	0.07	0.019	0.03	-0.04
Body	WLAN	155	5775	11ac 80M 9db	Right	0mm	\	7.35	9.00	0.093	0.14	0.039	0.06	0.18
Body	WLAN	155	5775	11ac 80M 9db	Top	0mm	\	7.35	9.00	0.248	0.36	0.092	0.13	-0.02
Body	WLAN	155	5775	11ac 80M 9db	Bottom	0mm	\	7.35	9.00	0.008	0.01	0.004	0.01	-0.26

RF Exposure Conditions	Frequency Band	Channel Number	Frequency (MHz)	Mode/RB	Test setup	Distance	Figure No.	EUT Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
Body	WLAN5G+	42	5210	11ac 7db	Rear	19mm	\	6.23	8.00	0.022	0.03	0.013	0.02	0.14
Body	WLAN5G+	42	5210	11ac 7db	Left	19mm	\	6.23	8.00	0.002	<0.01	0.001	<0.01	0.28
Body	WLAN5G+	42	5210	11ac 7db	Right	19mm	\	6.23	8.00	0.002	<0.01	0.001	<0.01	0.07
Body	WLAN5G+	42	5210	11ac 7db	Top	19mm	\	6.23	8.00	0.027	0.04	0.017	0.03	-0.06
Body	WLAN5G+	42	5210	11ac 7db	Bottom	19mm	\	6.23	8.00	<0.01	<0.01	<0.01	<0.01	-0.15
Body	WLAN5G+	58	5290	11ac 7db	Rear	19mm	\	6.35	8.00	0.025	0.04	0.014	0.02	0.20
Body	WLAN5G+	58	5290	11ac 7db	Left	19mm	\	6.35	8.00	0.002	<0.01	0.001	<0.01	-0.03
Body	WLAN5G+	58	5290	11ac 7db	Right	19mm	\	6.35	8.00	0.002	<0.01	0.001	<0.01	0.21
Body	WLAN5G+	58	5290	11ac 7db	Top	19mm	\	6.35	8.00	0.028	0.04	0.017	0.02	-0.19
Body	WLAN5G+	58	5290	11ac 7db	Bottom	19mm	\	6.35	8.00	<0.01	<0.01	<0.01	<0.01	0.28
Body	WLAN5G+	122	5610	11ac 7db	Rear	19mm	\	6.67	8.00	0.025	0.03	0.014	0.02	-0.29
Body	WLAN5G+	122	5610	11ac 7db	Left	19mm	\	6.67	8.00	0.003	<0.01	0.002	<0.01	-0.11
Body	WLAN5G+	122	5610	11ac 7db	Right	19mm	\	6.67	8.00	0.002	<0.01	0.001	<0.01	0.16
Body	WLAN5G+	122	5610	11ac 7db	Top	19mm	\	6.67	8.00	0.031	0.04	0.017	0.02	0.05
Body	WLAN5G+	122	5610	11ac 7db	Bottom	19mm	\	6.67	8.00	0.000	0.00	0.000	0.00	-0.07
Body	WLAN5G+	155	5775	11ac 7db	Rear	19mm	\	6.17	8.00	0.019	0.03	0.011	0.02	-0.26
Body	WLAN5G+	155	5775	11ac 7db	Left	19mm	\	6.17	8.00	0.003	<0.01	0.001	<0.01	-0.21
Body	WLAN5G+	155	5775	11ac 7db	Right	19mm	\	6.17	8.00	0.002	<0.01	0.001	<0.01	0.20
Body	WLAN5G+	155	5775	11ac 7db	Top	19mm	\	6.17	8.00	0.027	0.04	0.015	0.02	0.04
Body	WLAN5G+	155	5775	11ac 7db	Bottom	19mm	\	6.17	8.00	<0.01	<0.01	<0.01	<0.01	0.28
Body	WLAN5G+	42	5210	11ac 7db	Rear	0mm	\	6.23	8.00	0.174	0.26	0.065	0.10	0.01
Body	WLAN5G+	42	5210	11ac 7db	Left	0mm	\	6.23	8.00	0.022	0.03	0.009	0.01	-0.03
Body	WLAN5G+	42	5210	11ac 7db	Right	0mm	\	6.23	8.00	0.039	0.06	0.016	0.02	0.12
Body	WLAN5G+	42	5210	11ac 7db	Top	0mm	\	6.23	8.00	0.121	0.18	0.047	0.07	-0.03
Body	WLAN5G+	42	5210	11ac 7db	Bottom	0mm	\	6.23	8.00	0.008	0.01	0.004	0.01	0.02
Body	WLAN5G+	58	5290	11ac 7db	Rear	0mm	FIG A.24	6.35	8.00	0.201	0.29	0.072	0.11	0.08
Body	WLAN5G+	58	5290	11ac 7db	Left	0mm	\	6.35	8.00	0.022	0.03	0.009	0.01	0.04
Body	WLAN5G+	58	5290	11ac 7db	Right	0mm	\	6.35	8.00	0.043	0.06	0.018	0.03	-0.18
Body	WLAN5G+	58	5290	11ac 7db	Top	0mm	\	6.35	8.00	0.141	0.21	0.049	0.07	-0.29
Body	WLAN5G+	58	5290	11ac 7db	Bottom	0mm	\	6.35	8.00	0.004	0.01	0.002	0.00	-0.18
Body	WLAN5G+	122	5610	11ac 7db	Rear	0mm	\	6.67	8.00	0.184	0.25	0.076	0.10	-0.23
Body	WLAN5G+	122	5610	11ac 7db	Left	0mm	\	6.67	8.00	0.026	0.04	0.011	0.01	-0.03
Body	WLAN5G+	122	5610	11ac 7db	Right	0mm	\	6.67	8.00	0.049	0.07	0.020	0.03	0.17
Body	WLAN5G+	122	5610	11ac 7db	Top	0mm	\	6.67	8.00	0.150	0.20	0.056	0.08	-0.02
Body	WLAN5G+	122	5610	11ac 7db	Bottom	0mm	\	6.67	8.00	0.011	0.01	0.004	0.01	0.07
Body	WLAN5G+	155	5775	11ac 7db	Rear	0mm	\	6.17	8.00	0.139	0.21	0.062	0.09	0.01
Body	WLAN5G+	155	5775	11ac 7db	Left	0mm	\	6.17	8.00	0.019	0.03	0.009	0.01	0.12
Body	WLAN5G+	155	5775	11ac 7db	Right	0mm	\	6.17	8.00	0.039	0.06	0.018	0.03	0.28
Body	WLAN5G+	155	5775	11ac 7db	Top	0mm	\	6.17	8.00	0.105	0.16	0.043	0.07	-0.30
Body	WLAN5G+	155	5775	11ac 7db	Bottom	0mm	\	6.17	8.00	0.003	<0.01	0.002	<0.01	0.21

14.4 SAR Evaluation For BT

Test Position	Frequency Band	Channel Number	Frequency (MHz)	Test setup	Distance	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)
Body	BT	39	2441	Front	10mm	< 0.01	< 0.01	< 0.01	< 0.01
Body	BT	39	2441	Rear	10mm	< 0.01	< 0.01	< 0.01	< 0.01
Body	BT	39	2441	Left Edge	10mm	< 0.01	< 0.01	< 0.01	< 0.01
Body	BT	39	2441	Right Edge	10mm	< 0.01	< 0.01	< 0.01	< 0.01
Body	BT	39	2441	Top Edge	10mm	< 0.01	< 0.01	< 0.01	< 0.01
Test Position	Frequency Band	Channel Number	Frequency (MHz)	Test setup	Distance	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)
Head	BT	39	2441	Left Cheek	0mm	< 0.01	< 0.01	< 0.01	< 0.01
Head	BT	39	2441	Left Tilt	0mm	< 0.01	< 0.01	< 0.01	< 0.01
Head	BT	39	2441	Right Cheek	0mm	< 0.01	< 0.01	< 0.01	< 0.01
Head	BT	39	2441	Right Tilt	0mm	< 0.01	< 0.01	< 0.01	< 0.01

15 SAR Measurement Variability

SAR measurement variability must be assessed for each frequency band, which is determined by the SAR probe calibration point and tissue-equivalent medium used for the device measurements. When both head and body tissue-equivalent media are required for SAR measurements in a frequency band, the variability measurement procedures should be applied to the tissue medium with the highest measured SAR, using the highest measured SAR configuration for that tissue-equivalent medium.

The following procedures are applied to determine if repeated measurements are required.

- 1) Repeated measurement is not required when the original highest measured SAR is < 0.80 W/kg; steps 2) through 4) do not apply.
- 2) When the original highest measured SAR is ≥ 0.80 W/kg, repeat that measurement once.
- 3) Perform a second repeated measurement only if the ratio of largest to smallest SAR for the original and first repeated measurements is > 1.20 or when the original or repeated measurement is ≥ 1.45 W/kg ($\sim 10\%$ from the 1-g SAR limit).
- 4) Perform a third repeated measurement only if the original, first or second repeated measurement is ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20

RF Exposure Conditions	Frequency Band	Channel Number	Frequency (MHz)	Mode/RB	Test setup	Distance	Original Highest Measured 1g (W/kg)	Second Repeated Measurement 1g (W/kg)	The Ratio
Body	GSM1900 ANT0	512	1850.2	GPRS(4TX)	Rear	19mm	0.865	0.848	1.020
Body	GSM1900 ANT0	810	1909.8	GPRS(4TX)	Rear	0mm	0.994	0.981	1.014
Body	GSM1900 ANT0	661	1880	GPRS(4TX)	Rear	0mm	0.986	0.970	1.016
Body	GSM1900 ANT0	512	1850.2	GPRS(4TX)	Rear	0mm	0.833	0.816	1.020
Body	GSM1900 ANT0	661	1880	EGPRS(4TX)	Rear	0mm	0.981	0.962	1.020
Body	WCDMA 1900 ANT2	9400	1880	RMC	Rear	0mm	0.87	0.851	1.016
Body	WCDMA 1900 ANT2	9400	1880	RMC	Right	0mm	0.88	0.864	1.023
Body	WCDMA 1900 ANT2	9262	1852.4	RMC	Right	0mm	1.00	0.983	1.018
Body	WCDMA 1700 ANT2	1513	1752.6	RMC	Rear	0mm	0.913	0.900	1.014
Body	WCDMA 1700 ANT2	1412	1732.4	RMC	Rear	0mm	0.957	0.943	1.015
Body	WCDMA 1700 ANT2	1312	1712.4	RMC	Rear	0mm	0.938	0.924	1.015
Body	LTE Band2 ANT2	18900	1880	1RB-Middle	Rear	0mm	0.874	0.861	1.015
Body	LTE Band2 ANT2	18900	1880	1RB-Middle	Right	0mm	0.93	0.913	1.021
Body	LTE Band5 ANT0	20600	844	1RB-High	Rear	0mm	0.806	0.793	1.017
Body	LTE Band7 ANT3	21100	2535	1RB-Low	Rear	0mm	1.080	1.060	1.019
Body	LTE Band7 ANT3	21100	2535	1RB-Low	Top	0mm	1.044	1.027	1.016
Body	LTE Band7 ANT3	21100	2535	50RB-Low	Rear	0mm	0.863	0.847	1.019
Body	LTE Band12 ANT0	23095	707.5	1RB-Low	Rear	0mm	1.010	0.993	1.017
Body	LTE Band12 ANT0	23095	707.5	25RB-Low	Rear	0mm	0.866	0.850	1.019
Body	LTE Band12 ANT0	23095	707.5	25RB-Low	Top	0mm	0.866	0.850	1.018
Body	LTE Band13 ANT0	23230	782	1RB-Low	Rear	0mm	0.897	0.877	1.023
Body	LTE Band13 ANT0	23230	782	1RB-Low	Top	0mm	0.805	0.788	1.021
Body	LTE Band48 ANT5	55340	3560	1RB-High	Top	0mm	1.080	1.063	1.016
Body	LTE Band48 ANT5	55340	3560	50RB-Low	Top	0mm	0.880	0.865	1.017
Body	LTE Band66 ANT2	132322	1745	1RB-High	Rear	0mm	1.070	1.058	1.011
Body	LTE Band66 ANT2	132322	1745	50RB-Low	Rear	0mm	0.809	0.789	1.025
Body	LTE Band66 ANT2	132322	1745	1RB-High	ULCA	0mm	0.980	0.970	1.011
Body	WLAN	6	2437	11b 14.5db	Rear	0mm	1.280	1.263	1.013

Frequency Band	Channel Number	Frequency (MHz)	Mode/RB	Test setup	Distance	Original Highest Measured 1g (W/kg)	Second Repeated Measurement 1g (W/kg)	The Ratio
N2 ANT2	376000	1880	15k 5M 12.6 DFT-S-OFDM-QPSK 13db	Rear	0mm	1.00	0.980	1.019
N2 ANT2	376000	1880	15k 5M 12.6 DFT-S-OFDM-QPSK 13db	Right	0mm	0.89	0.877	1.014
N66 ANT2	349000	1745	15k 5M 12.6 DFT-S-OFDM-QPSK 13db	Rear	0mm	0.98	0.960	1.021
N77H ANT5	664666	3969.99	30k 20M 25.12 DFT-S-OFDM-QPSK 10.5db	Top	0mm	1.000	0.984	1.016
N78H ANT5	650000	3750	30k 20M 25.12 DFT-S-OFDM-QPSK 10db	Top	0mm	0.984	0.967	1.018

16 Measurement Uncertainty

16.1 Measurement Uncertainty for Normal SAR Tests (300MHz~3GHz)

No.	Error Description	Type	Uncertainty value	Probably Distribution	Div.	(Ci) 1g	(Ci) 10g	Std. Unc. (1g)	Std. Unc. (10g)	Degree of freedom
Measurement system										
1	Probe calibration	B	6.0	N	1	1	1	6.0	6.0	∞
2	Isotropy	B	4.7	R	$\sqrt{3}$	0.7	0.7	1.9	1.9	∞
3	Boundary effect	B	1.0	R	$\sqrt{3}$	1	1	0.6	0.6	∞
4	Linearity	B	4.7	R	$\sqrt{3}$	1	1	2.7	2.7	∞
5	Detection limit	B	1.0	N	1	1	1	0.6	0.6	∞
6	Readout electronics	B	0.3	R	$\sqrt{3}$	1	1	0.3	0.3	∞
7	Response time	B	0.8	R	$\sqrt{3}$	1	1	0.5	0.5	∞
8	Integration time	B	2.6	R	$\sqrt{3}$	1	1	1.5	1.5	∞
9	RF ambient conditions-noise	B	0	R	$\sqrt{3}$	1	1	0	0	∞
10	RFambient conditions-reflection	B	0	R	$\sqrt{3}$	1	1	0	0	∞
11	Probe positioned mech. restrictions	B	0.4	R	$\sqrt{3}$	1	1	0.2	0.2	∞
12	Probe positioning with respect to phantom shell	B	2.9	R	$\sqrt{3}$	1	1	1.7	1.7	∞
13	Post-processing	B	1.0	R	$\sqrt{3}$	1	1	0.6	0.6	∞
Test sample related										
14	Test sample positioning	A	3.3	N	1	1	1	3.3	3.3	71
15	Device holder uncertainty	A	3.4	N	1	1	1	3.4	3.4	5
16	Drift of output power	B	5.0	R	$\sqrt{3}$	1	1	2.9	2.9	∞
Phantom and set-up										
17	Phantom uncertainty	B	4.0	R	$\sqrt{3}$	1	1	2.3	2.3	∞
18	Liquid conductivity (target)	B	5.0	R	$\sqrt{3}$	0.64	0.43	1.8	1.2	∞

19	Liquid conductivity (meas.)	A	2.06	N	1	0.64	0.43	1.32	0.89	43
20	Liquid permittivity (target)	B	5.0	R	$\sqrt{3}$	0.6	0.49	1.7	1.4	∞
21	Liquid permittivity (meas.)	A	1.6	N	1	0.6	0.49	1.0	0.8	521
Combined standard uncertainty		$u_c = \sqrt{\sum_{i=1}^{21} c_i^2 u_i^2}$						9.55	9.43	257
Expanded uncertainty (confidence interval of 95 %)		$u_e = 2u_c$						19.1	18.9	

16.2 Measurement Uncertainty for Normal SAR Tests (3~6GHz)

No.	Error Description	Type	Uncertainty value	Probably Distribution	Div.	(Ci) 1g	(Ci) 10g	Std. Unc. (1g)	Std. Unc. (10g)	Degree of freedom
Measurement system										
1	Probe calibration	B	6.55	N	1	1	1	6.55	6.55	∞
2	Isotropy	B	4.7	R	$\sqrt{3}$	0.7	0.7	1.9	1.9	∞
3	Boundary effect	B	2.0	R	$\sqrt{3}$	1	1	1.2	1.2	∞
4	Linearity	B	4.7	R	$\sqrt{3}$	1	1	2.7	2.7	∞
5	Detection limit	B	1.0	R	$\sqrt{3}$	1	1	0.6	0.6	∞
6	Readout electronics	B	0.3	R	$\sqrt{3}$	1	1	0.3	0.3	∞
7	Response time	B	0.8	R	$\sqrt{3}$	1	1	0.5	0.5	∞
8	Integration time	B	2.6	R	$\sqrt{3}$	1	1	1.5	1.5	∞
9	RF ambient conditions-noise	B	0	R	$\sqrt{3}$	1	1	0	0	∞
10	RFambient conditions-reflection	B	0	R	$\sqrt{3}$	1	1	0	0	∞
11	Probe positioned mech. restrictions	B	0.8	R	$\sqrt{3}$	1	1	0.5	0.5	∞
12	Probe positioning with respect to phantom shell	B	6.7	R	$\sqrt{3}$	1	1	3.9	3.9	∞
13	Post-processing	B	4.0	R	$\sqrt{3}$	1	1	2.3	2.3	∞
Test sample related										
14	Test sample positioning	A	3.3	N	1	1	1	3.3	3.3	71
15	Device holder uncertainty	A	3.4	N	1	1	1	3.4	3.4	5
16	Drift of output power	B	5.0	R	$\sqrt{3}$	1	1	2.9	2.9	∞
Phantom and set-up										
17	Phantom uncertainty	B	4.0	R	$\sqrt{3}$	1	1	2.3	2.3	∞

18	Liquid conductivity (target)	B	5.0	R	$\sqrt{3}$	0.64	0.43	1.8	1.2	∞
19	Liquid conductivity (meas.)	A	2.06	N	1	0.64	0.43	1.32	0.89	43
20	Liquid permittivity (target)	B	5.0	R	$\sqrt{3}$	0.6	0.49	1.7	1.4	∞
21	Liquid permittivity (meas.)	A	1.6	N	1	0.6	0.49	1.0	0.8	521
Combined standard uncertainty		$u_c = \sqrt{\sum_{i=1}^{21} c_i^2 u_i^2}$						10.7	10.6	257
Expanded uncertainty (confidence interval of 95 %)		$u_e = 2u_c$						21.4	21.1	

16.3 Measurement Uncertainty for Fast SAR Tests (300MHz~3GHz)

No.	Error Description	Type	Uncertainty value	Probably Distribution	Div.	(Ci) 1g	(Ci) 10g	Std. Unc. (1g)	Std. Unc. (10g)	Degree of freedom
Measurement system										
1	Probe calibration	B	6.0	N	1	1	1	6.0	6.0	∞
2	Isotropy	B	4.7	R	$\sqrt{3}$	0.7	0.7	1.9	1.9	∞
3	Boundary effect	B	1.0	R	$\sqrt{3}$	1	1	0.6	0.6	∞
4	Linearity	B	4.7	R	$\sqrt{3}$	1	1	2.7	2.7	∞
5	Detection limit	B	1.0	R	$\sqrt{3}$	1	1	0.6	0.6	∞
6	Readout electronics	B	0.3	R	$\sqrt{3}$	1	1	0.3	0.3	∞
7	Response time	B	0.8	R	$\sqrt{3}$	1	1	0.5	0.5	∞
8	Integration time	B	2.6	R	$\sqrt{3}$	1	1	1.5	1.5	∞
9	RF ambient conditions-noise	B	0	R	$\sqrt{3}$	1	1	0	0	∞
10	RFambient conditions-reflection	B	0	R	$\sqrt{3}$	1	1	0	0	∞
11	Probe positioned mech. Restrictions	B	0.4	R	$\sqrt{3}$	1	1	0.2	0.2	∞
12	Probe positioning with respect to phantom shell	B	2.9	R	$\sqrt{3}$	1	1	1.7	1.7	∞
13	Post-processing	B	1.0	R	$\sqrt{3}$	1	1	0.6	0.6	∞
14	Fast SAR z-Approximation	B	7.0	R	$\sqrt{3}$	1	1	4.0	4.0	∞
Test sample related										
15	Test sample positioning	A	3.3	N	1	1	1	3.3	3.3	71
16	Device holder	A	3.4	N	1	1	1	3.4	3.4	5

	uncertainty									
17	Drift of output power	B	5.0	R	$\sqrt{3}$	1	1	2.9	2.9	∞
Phantom and set-up										
18	Phantom uncertainty	B	4.0	R	$\sqrt{3}$	1	1	2.3	2.3	∞
19	Liquid conductivity (target)	B	5.0	R	$\sqrt{3}$	0.64	0.43	1.8	1.2	∞
20	Liquid conductivity (meas.)	A	2.06	N	1	0.64	0.43	1.32	0.89	43
21	Liquid permittivity (target)	B	5.0	R	$\sqrt{3}$	0.6	0.49	1.7	1.4	∞
22	Liquid permittivity (meas.)	A	1.6	N	1	0.6	0.49	1.0	0.8	521
Combined standard uncertainty		$u_c = \sqrt{\sum_{i=1}^{22} c_i^2 u_i^2}$						10.4	10.3	257
Expanded uncertainty (confidence interval of 95 %)		$u_e = 2u_c$						20.8	20.6	

16.4 Measurement Uncertainty for Fast SAR Tests (3~6GHz)

No.	Error Description	Type	Uncertainty value	Probably Distribution	Div.	(Ci) 1g	(Ci) 10g	Std. Unc. (1g)	Std. Unc. (10g)	Degree of freedom
Measurement system										
1	Probe calibration	B	6.55	N	1	1	1	6.55	6.55	∞
2	Isotropy	B	4.7	R	$\sqrt{3}$	0.7	0.7	1.9	1.9	∞
3	Boundary effect	B	2.0	R	$\sqrt{3}$	1	1	1.2	1.2	∞
4	Linearity	B	4.7	R	$\sqrt{3}$	1	1	2.7	2.7	∞
5	Detection limit	B	1.0	R	$\sqrt{3}$	1	1	0.6	0.6	∞
6	Readout electronics	B	0.3	R	$\sqrt{3}$	1	1	0.3	0.3	∞
7	Response time	B	0.8	R	$\sqrt{3}$	1	1	0.5	0.5	∞
8	Integration time	B	2.6	R	$\sqrt{3}$	1	1	1.5	1.5	∞
9	RF ambient conditions-noise	B	0	R	$\sqrt{3}$	1	1	0	0	∞
10	RFambient conditions-reflection	B	0	R	$\sqrt{3}$	1	1	0	0	∞
11	Probe positioned mech. Restrictions	B	0.8	R	$\sqrt{3}$	1	1	0.5	0.5	∞
12	Probe positioning with respect to phantom shell	B	6.7	R	$\sqrt{3}$	1	1	3.9	3.9	∞
13	Post-processing	B	1.0	R	$\sqrt{3}$	1	1	0.6	0.6	∞
14	Fast SAR z-	B	14.0	R	$\sqrt{3}$	1	1	8.1	8.1	∞

	Approximation									
Test sample related										
15	Test sample positioning	A	3.3	N	1	1	1	3.3	3.3	71
16	Device holder uncertainty	A	3.4	N	1	1	1	3.4	3.4	5
17	Drift of output power	B	5.0	R	$\sqrt{3}$	1	1	2.9	2.9	∞
Phantom and set-up										
18	Phantom uncertainty	B	4.0	R	$\sqrt{3}$	1	1	2.3	2.3	∞
19	Liquid conductivity (target)	B	5.0	R	$\sqrt{3}$	0.64	0.43	1.8	1.2	∞
20	Liquid conductivity (meas.)	A	2.06	N	1	0.64	0.43	1.32	0.89	43
21	Liquid permittivity (target)	B	5.0	R	$\sqrt{3}$	0.6	0.49	1.7	1.4	∞
22	Liquid permittivity (meas.)	A	1.6	N	1	0.6	0.49	1.0	0.8	521
Combined standard uncertainty		$u_c = \sqrt{\sum_{i=1}^{22} c_i^2 u_i^2}$						13.5	13.4	257
Expanded uncertainty (confidence interval of 95 %)		$u_e = 2u_c$						27.0	26.8	

17 MAIN TEST INSTRUMENTS

Table 17.1: List of Main Instruments

No.	Name	Type	Serial Number	Calibration Date	Valid Period
01	Network analyzer	N5239A	MY554912414	June 5,2023	One year
02	Power sensor	NRP50S-	101488	June 14, 2023	One year
03	Power sensor	NRP50S-	101489	June 14, 2023	One year
04	Signal Generator	MG3700A-	6201052605	June 12, 2023	One year
05	Amplifier	60S1G4	0331848	No Calibration Requested	
06	BTS	CMW500	149646	November 21,2023	One year
07	DAE	SPEAG DAE4	1601	July 11, 2023	One year
08	E-field Probe	SPEAG EX3DV4	7307	June 21 2023	One year
09	Dipole Validation Kit	SPEAG CLA13	1009	May 19,2023	One year
10	Dipole Validation Kit	SPEAG D750V3	1196	May 24,2023	One year
11	Dipole Validation Kit	SPEAG D835V2	4d260	May 23,2023	One year
12	Dipole Validation Kit	SPEAG D1750V2	1003	July 12 2023	One year
13	Dipole Validation Kit	SPEAG D1900V2	5d234	May 22,2023	One year
14	Dipole Validation Kit	SPEAG D2450V2	853	July 11 2023	One year
15	Dipole Validation Kit	SPEAG D2600V2	1012	July 11 2023	One year
16	Dipole Validation Kit	SPEAG D3500V2	1016	June 21,2023	One year
17	Dipole Validation Kit	SPEAG D3700V2	1004	June 21,2023	One year
18	Dipole Validation Kit	SPEAG D3900V2	1024	June 21,2023	One year
19	Dipole Validation Kit	SPEAG D5GHzV2	1060	June 19,2023	One year

END OF REPORT BODY



Appendixes

Refer to separated files for the following appendixes

ANNEX A Graph Results

ANNEX B System Verification Results

ANNEX C SAR Measurement Setup

ANNEX D Position of the wireless device in relation to the phantom

ANNEX E Equivalent Media Recipes

ANNEX F System Validation

ANNEX G Probe Calibration Certificate

ANNEX H Dipole Calibration Certificate

ANNEX I Sensor Triggering Data Summary

ANNEX J Accreditation Certificate